

CANADIAN ELECTRICAL

SUPPLY CO. LTD.



WHOLESALE DISTRIBUTORS

MONTREAL 1, 275 CRAIG ST. WEST
TORONTO 1, 543 YONGE STREET

PHONE: PLATEAU '3421
PHONE: MIDWAY '2481

RADIO AND ELECTRICAL

C.E.S. INVITES YOU TO VISIT OUR NEW BUILDINGS WELCOME!

TO THESE DEPARTMENTS FOR YOUR CONVENIENCE

TEST EQUIPMENT It's full of nationally famous lines. All the latest electronic developments in test equipment.

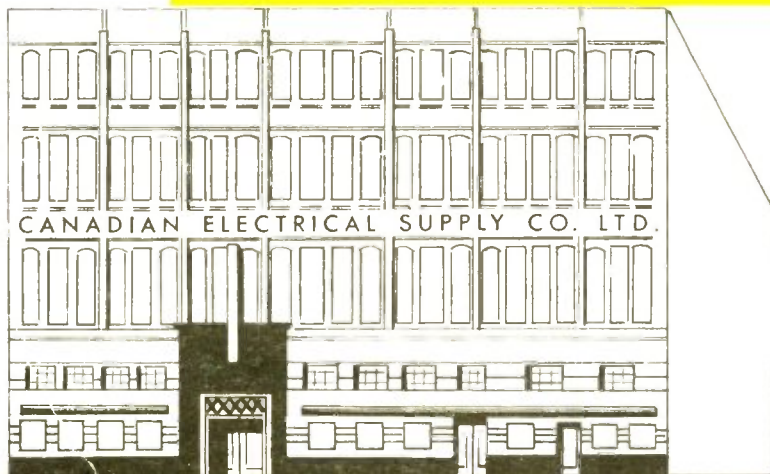
PUBLIC ADDRESS Use our facilities to demonstrate to your customer. Complete displays of Amplifiers, Microphones, Horns, Recording equipment.

HAM SHACK Amateurs! It's all yours. Browse around and see our equipment—transmitting and receiving. Everything you need for operation.

RADIO LIBRARY All the latest books in Radio, Television, F.M., Recording, and Public address.

TECHNICAL SERVICE Complete library of manuals at your service, also free advice on your servicing or installation problems.

ELECTRICAL APPLIANCES New appliances, new lines. See them and add to your profits with these fast selling items.



MONTREAL

35 YEARS

Throughout its **35 years** of existence, C.E.S. has served its customers faithfully and has supplied every facility at its disposal to ease the task of buyers all over the country. Our keynote has always been quick, efficient service.

We supply **quality products** that bear the name of nationally known manufacturers. In keeping with a policy of selling only the lines that are proven and

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CANADIAN ELECTRICAL

World Radio History

SUPPLY CENTRE

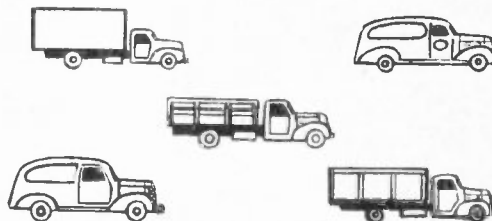


PHONE FOR SPEEDIER SERVICE

Montreal: PL. 3421

Toronto : MI. 2481

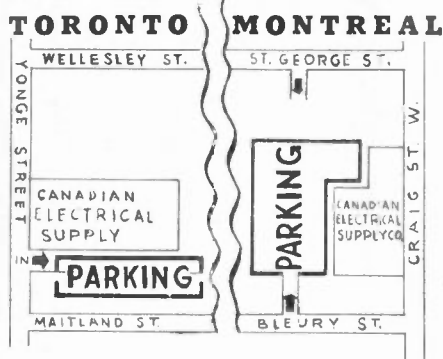
Our ten line switchboard ensures no waiting to get a call through to our "customer order" department. Long distance calls receive prompt attention.



SPEEDY CITY WIDE DELIVERY

We have a city wide delivery service in Montreal and Toronto. For faster delivery in either city, just phone your order, call on us, or place an order with our salesman. All orders shipped same day as received.

SERVICES FOR YOUR CONVENIENCE



FREE PARKING

When visiting our store, why not make use of the ample parking facilities which we place at your disposal. **Free parking space** provided at both our stores in Montreal and Toronto. See plan for best method of reaching our parking lots.



24-HOUR MAIL ORDER SERVICE

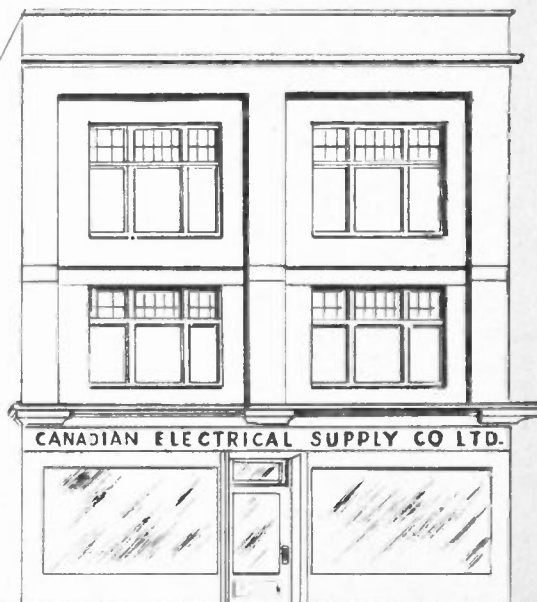
It's so easy to fill out one of our specially devised rush order blanks, and mail it to either our Montreal or Toronto branch. All mail orders are dispatched within 24 hours of receipt by our mail order office. Write to us for a supply of rush order blanks.

OF SERVICE

reliable, we sell only fully **guaranteed merchandise**.

We offer to all our customers, big and small alike, **free technical advice**. The experience of our finest technicians is at your service.

We sell **everything in electronics**. Not only do we sell it, but we sell at the **lowest prices for quality merchandise**



TORONTO

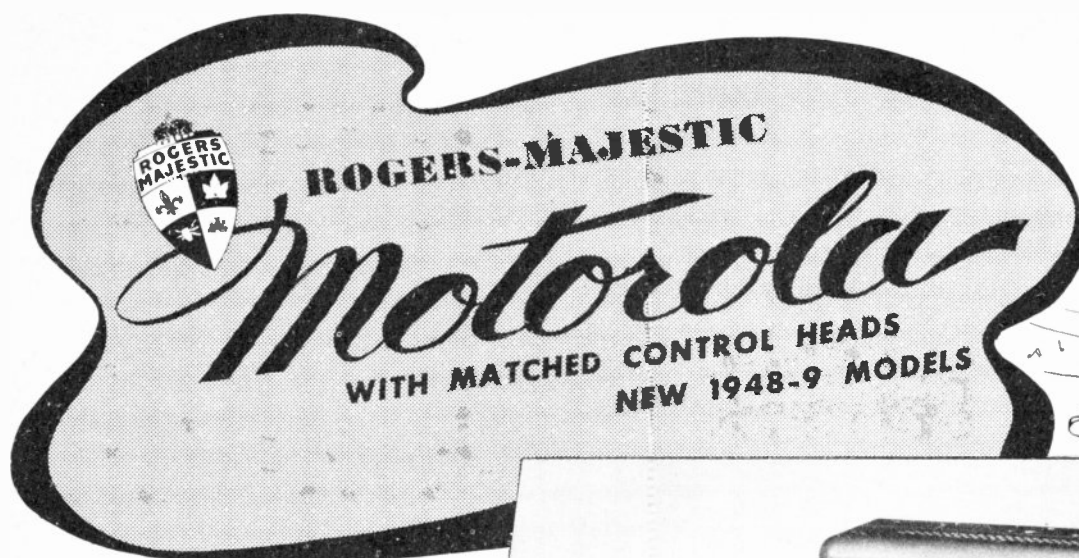
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SUPPLY CO., LTD.

World Radio History



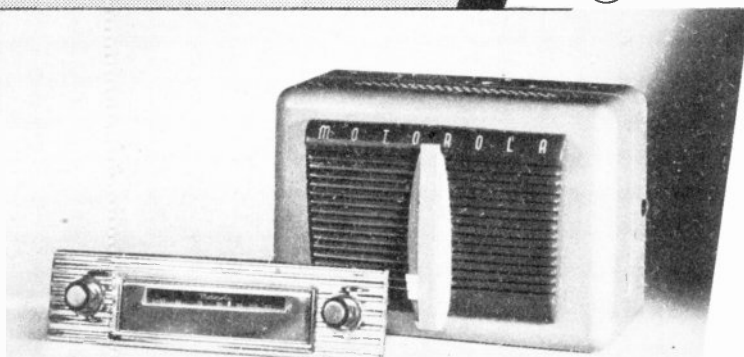
MOTOROLA 408

**3-Gang Permeability Tuning — 6 Tubes —
Tone Control — Tuned R.F. Stage**

3-Dimension VITA-TONE-6 Tubes including Rectifier-3 Gang Permeability Tuning — Tuned R.F. Stage-Extreme Sensitivity-Razor-Sharp Selectivity-Matched Control Heads Fit Every Car-Easily Transferred from car to car speaker self contained. Electro dynamic built in speaker of fine tonal quality.

Superhet-Heavy-Duty Vibrator-High-power Output Tube-Low battery drain-AVC-Built-in Size: 9 $\frac{3}{8}$ " wide, 6 $\frac{1}{2}$ " high, 5 $\frac{1}{2}$ " deep.

List Price—Less Manual head..... \$69.50

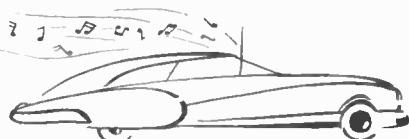
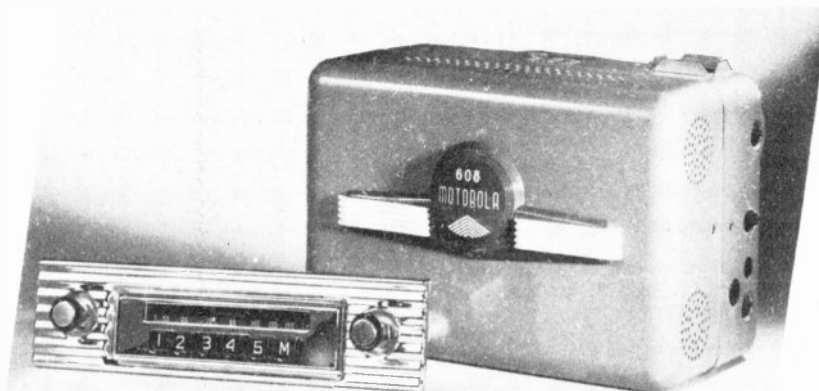


MOTOROLA 608

**5 Electric Push Buttons — 6 Tubes —
3 Position Tone Control**

3-Dimension VITA-TONE-6 Tubes including Rectifier-5-Station Electric Push Buttons easily re-set without tools-3-Gang Perm Tuning-Tuned R.F. Stage-Extreme Sensitivity-Razor-Sharp Selectivity-Matched Control Heads Fit Every Car-Easily Transferred from car to car-3 Position Tone Control-Choice of Matched Electro-Dynamic Speaker for Instrument Panel installation or M-361 Bulkhead Speaker-Superhet-Heavy-duty Vibrator-High-power Output Tube-Low battery drain-AVC-Built-in motor noise filter-Finished in beautiful green hammerloid-Compact-Size 9 $\frac{3}{8}$ " wide, 6 $\frac{1}{2}$ " high, 5 $\frac{1}{2}$ " deep.

List Price—Less automatic head and speaker kit..... \$99.50



Speaker Mounting Kit

A complete kit of all the accessories needed for mounting the speaker.

Kit—List Price..... \$5.00

ENJOY YOUR FAVOURITE PROGRAMMES AS YOU DRIVE

Manual Head

A control head to fit into the dash board of whatever car you may have. For use with model 408, manual tuning only. Beautifully finished, to match the car for which it is made. Universal Model also available to fit under control panel of any car. **List Price**..... \$8.50

Automatic Head

Whatever make car you may have, Motorola can supply a control head, that is designed specially to fit into your dash board. Also universal model that fits under control panel of any car. Finished in chrome. For use with model 608, push button and manual tuning. **List Price**..... \$13.50

DEALERS—WRITE FOR CONFIDENTIAL NET PRICES



WARD AERIALS

WORLD'S

FINEST

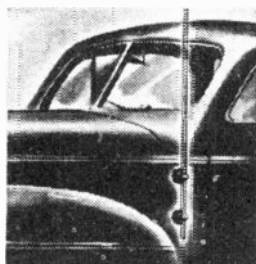
AND

FASTEST

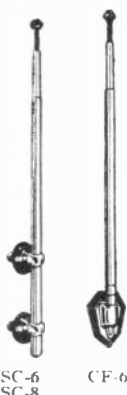
SELLING

AERIALS

SIDE COWL OR FENDER



SC-6
SC-8



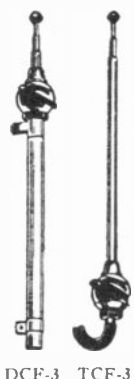
SC-6
SC-8

CF-6

TOP COWL OR FENDER



DCF-3



DCF-3 TCF-3

FLEX-ANGLE

Model CF-6

Tops in popularity, trim styling and a flexible adjustment so rod can be locked in a vertical position. Ideal for new revolutionary body styles. 36" coaxial lead included.

3 section, 68".
Model CF-6—List Price..... \$ 6.23
Your Cost..... 3.73

AIR KING

Model SC-6

Stanchion mounts provide sturdiest installation. Insulators are smartly designed with chrome caps. 36" coaxial lead cable included plus conversion parts to be used in vertical position on extreme body contours. 3 section 66".

Model SC-6—List Price..... \$ 5.65
Your Cost..... 3.39

LONG RANGER

Model SC-8

A favorite in low signal areas where its extra length provides fine reception. Stanchion mounts, same as above. Conversion parts and 36" coaxial lead included.

4 section, 100".
Model SC-8—List Price..... \$ 7.94
Your Cost..... 4.76

PHANTOM

Model DCF-3

DISAPPEARING CAR AERIAL

At last 100% shielded from engine noises and completely water sealed. Unique universal split ball design plus popular disappearing feature. Universal bracket for sturdy mounting. 3 section, 56".

36" coaxial lead cable included.
Model DCF-3—List Price..... \$ 7.94
Your Cost..... 5.01

EIGHT BALL

Non-disappearing

Smart universal split ball design developed and engineered by Ward in answer to every installer's dream.

Perfect fit on every car!
Easy to mount!
Secure installation!
3 section, 56".
36" coaxial lead cable included.

Model TCF-3—List Price..... \$ 6.08
Your Cost..... 3.65

LOW PRICE LEADER

Challenger

Leader of the low price field is this two stanchion mount. Coaxial lead is Ward high "Q", low loss cable without Vinylite jacket. Shield can type installation. 3 section, 66".

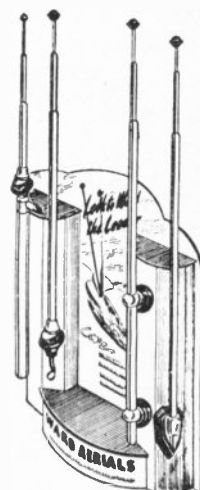
Model SB-3—List Price..... \$ 4.61
Your Cost..... 2.76

Build... Your Profits

FREE WARD DISPLAY

... you pay only
for aerials

Here's Your Newest Profit Builder! A striking, three-dimensional display which catches the eye of every customer. It's completely assembled, ready to place on your counter and bring in easy, extra sales. You pay only for the four fast moving models mounted. The display itself is FREE!



Model CD-4—List Price..... \$25.08
Your Cost..... 15.05

LEAD EXTENSION

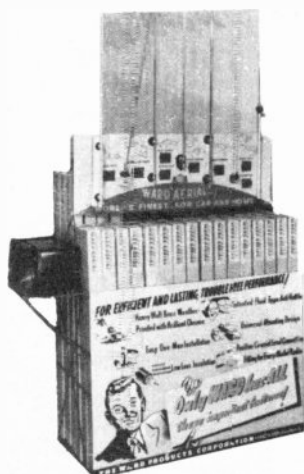
For fender mounting a 12" Lead Extension must be attached to the standard 36" lead.



Model C-8 Your Cost..... \$.55

THIS WARD AERIAL BAR YOURS

The Greatest Idea Ever Devised to Sell Aerials!



FREE BAR.

Display
take: only
19" x 41"
of space

Self-Contained, Self-Service aerial department. It keeps your stock "up front" where it promotes turnover and collects extra profits. Sturdily constructed bar. A handy radio shelf makes demonstration convenient and effective. Steel rack, Display panel, Sales-aid streamers free. 1,000 Mailing Stuffers supplied to you for mail order service, plus return post-card order blanks at no extra cost. ... **FREE!**

Ward Radio Aerial Bar

Containing
96 Aerials...

18 each TCF-3, DCF-3;
12 each SC-6, SC-8,
CF-6, WM-3, HM-4.

7 Display Aerials
25 Lead Extensions.

Model RB-7—Your Cost.... \$418.61

Ward Automotive Aerial Bar

Containing:
96 Aerials...

18 each SC-6, SC-8,
CF-6, DCF-3; 24 each
TCF-3.

5 Display Aerials
25 Lead Extensions.

Model AB-5—Your Cost.... \$412.43

PERFECT MERCHANDISE — PROMPT SHIPMENT — PERSONAL SERVICE

Canadian Electrical
will INCREASE YOUR

PROFITS

WITH THESE FAST
SELLING PRODUCTS

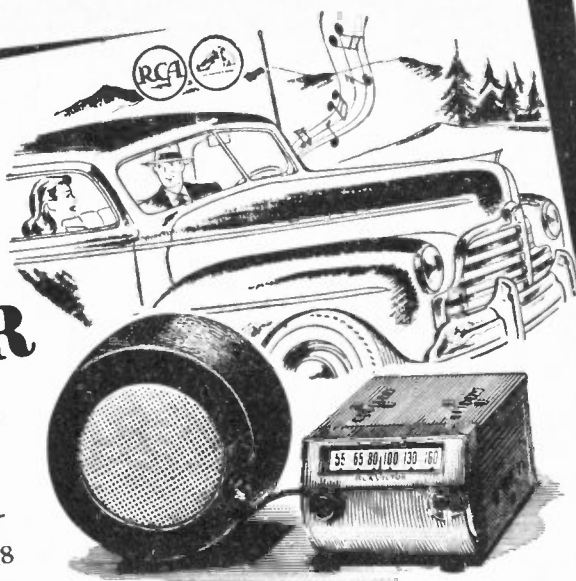
Enjoy Auto Radio
at its Best
with the New Improved 1948

RCA Victor Auto Radio

More compact yet more powerful, the new, improved 1948 RCA Victor Auto Radio brings you greater all-around value for your money. Outstanding in performance, dependability and styling. Come in for a demonstration. . .

\$64.95

Dealers please write for your cost.

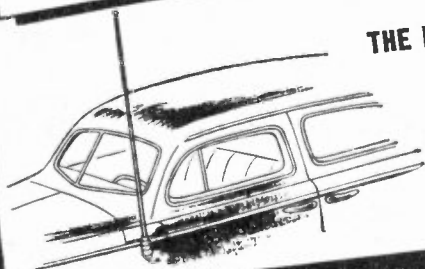


- ★ Fits all makes of cars.
- ★ 6 amazing, new, war-proven miniature tubes.
- ★ Smaller size allows more leg room.
- ★ Shock and vibration resistant.
- ★ Separate speaker for richer tone.
- ★ Chrome plated face harmonizes with instrument panel.

THE NEW RCA VICTOR AUTO RADIO ANTENNA

A deluxe universal antenna engineered for highest operating efficiency to ensure maximum performance from your auto radio. Easy to install. **\$5.95**

Dealers please write for your cost.



what

**CANADIAN ELECTRICAL
SUPPLY CO. LTD.**

means to you

C.E.S. has spelt service throughout it's 30 years of existence. Now more than ever before, we aim to give speedy service prompt shipment and personal attention to the big and small dealers alike.

BOOST YOUR SALES

with a

FREE!

auto radio
display board

It pays to advertise is a much quoted phrase, but nevertheless quite true. Write for this display board today, and give the RCA Victor Auto radio a prominent position in your store. You will soon realize the sales value of efficient displaying of merchandise.



ORDER YOUR GENUINE REPLACEMENT PARTS FROM C.E.S.



SOUNDMIRROR "MAGNETIC RIBBON" recorder



RECORD YOUR TELEPHONE CONVERSATIONS WITH RECORD-O-FONE

The Record-o-fone is not connected to the telephone. It is merely attached to a recorder, the telephone is placed on top of it and it records perfectly both ends of the conversation. Ideal for important phone conversations that have to be preserved. It's practical, economical and can be a great deal of fun. Phone calls can also be amplified through P.A. system.



Your Cost..... \$10.95

The BK-403 "SOUNDMIRROR" is a portable Magnetic Ribbon Recorder contained in an attractive black leatherette carrying case.

RECORDING IS QUICK-EASY AND ACCURATE.

Will save you money in the long run as expensive sapphire styles are **not required**, no record blanks needed, and above all is equipped with erasing head. Allowing tapes to be used over and over again. Can be edited and spliced with cellulose tape. Errors easily rectified with use of erasing head.

UNEXCELLED FOR:

★REMOTE PICKUP

★DELAYED BROADCAST

★SPOT ANNOUNCEMENT

★SPEECH CORRECTION

★LANGUAGE STUDIES

★CLASS PLAYS

★SCHOOL MUSICAL SOCIETIES

★ASSEMBLY ENTERTAINMENT

★SERMON REFERENCE

★LABOR NEGOTIATION

★IMPORTANT CONFERENCES

★VACATION REFERENCE

SPECIFICATIONS:

- a. Weight..... 50 lbs.
- b. Ribbon Speed..... 4.5 inches per second (Dual capstan arrangement allows change of speed.)
- c. Response
(at 4.5 inch per sec.)... Voice quality.
(at 7.5 inch per sec.)... 100-5,000 cps
- d. Rewind..... 45 seconds - approx. (Also fast forward)
- e. Microphone input..... High impedance for crystal microphone. Also, low level, low impedance for dynamic microphone. High impedance, high level radio input.
- f. Output..... Zero VU across 600 ohms
Self contained 6" x 9" oval speaker
- g. Portable carrying case..... Black Leatherette
- h. Microphone..... Type BA-106 crystal, desk stand, removable base.

MODEL BK 403 "SOUNDMIRROR"

Portable, complete with 1 BK-921 take-up reel, 5 BK-914-3 ribbon and reel, BA-106 Microphone.

List Price..... \$525.00

Institutional Price..... 425.00

BK914-1—Tape. List Price..... 4.00

BK921—Take up reel. List Price..... 1.00

Dealers, Institutions and Broadcast Stations— Write for Confidential Net Prices

Available to institutions, etc., with duty free certificates. Not available to other consumers due to temporary importation restrictions.

SCOTCH SOUND RECORDING TAPE

No. 100 Paper Base
No. 111 Plastic Base, designed especially for broadcasting stations and other high fidelity users. It has a 10 DB. lower noise level with more uniform output than No. 100. Other characteristics are the same. Size 1/4" x 1200 ft.

No.	Per Carton	Your Cost Ea.	Your Cost Doz. Lots
100	12 Rolls	\$3.00	\$2.00
111	12 Rolls	\$5.50	\$3.67

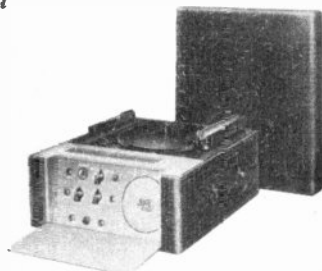
IMPROVE YOUR DISC RECORDING WITH THE IMPROVED MODEL

MASCO RK 5

DUAL SPEED DISC RECORDER

"Preserve a Permanent Record in Wax for your Personal Record Library"

A completely self-contained dual speed (33 1/3 r.p.m. and 78 r.p.m.) disc recorder and playback with built in amplifier. Designed for simple operation. Separate input jacks provide for (1)-Direct recording from any microphone, (2)-Direct recording electronically from a phonograph, and (3)-Direct recording from radio. Separate jack for external speaker. Recording from radio and microphone can be made simultaneously or separately. 5 tube amplifier. Electric eye volume level indicator. Sturdy case 16" x 19 1/4" x 8 1/2" covered in Brown Alligator Fabrikoid. Model RK5 Recorder with crystal cutting head and tubes.



RK5—60 cycles List Price..... \$233.25
Your Cost..... 137.95

RECORDIO THE WORLD'S FINEST HOME RECORDING INSTRUMENT

A professional type, dual speed portable recorder, adaptable to a wide range of uses. Operating at both 78 rpm and 33 1/3 rpm the Duo-Corder offers over twice the recording surface on the standard size discs. A microphone of the sensitive crystal type is supplied with the machine also a sensitive crystal cutting head, and crystal pick-up with replaceable needle. The instrument panel and speaker are protected by a rigid clamp on cover. An automatic shut-off switch stops the turntable at the completion of playing or recording. It is constructed of sturdy, reinforced plywood with attractive luggage leatherette covering. Ruggedly built for active, enjoyable, recording everywhere. Dimensions 17" wide, 15 1/2" deep, 11" high. Shipping Weight 52 lbs.

THE DUO-CORDER MODEL No. 6A10



MODEL 6A10..... 60 Cycles only List Price..... \$289.00

Confidential Dealers' Prices on Request. Available on Easy Time Payments. Due to temporary restrictions, available only to Institutions and individuals who can supply duty free certificates.

BUY YOUR RECORDING EQUIPMENT ON OUR EASY TIME PAYMENT

AUTOMATIC PHONOGRAPHS

Phonomotors sensationally new - Service free!

THE BAND BOX
IT'S NEW! . . . IT'S DIFFERENT

OPEN FACE AUTOMATIC CHANGER
For attachment to radio.

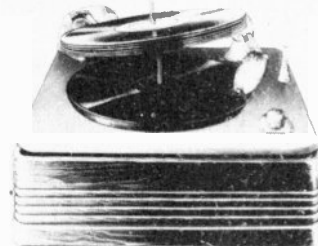


Here it is — A low priced portable record player with amplifier. The lid when removed fits on the spindle making the turntable, then you just plug in and play. It has a quiet high fidelity crystal, with a matched amplifier and speaker. Can carry ten 10" discs. Light in weight, compactly built, durable and of good appearance.

	Your Cost	List Price
3E - 25 cycle	\$28.00	\$39.50
4E - 60 cycle	28.00	39.50

- ★ **LOW PRICE**
- ★ **SERVICE FREE**
- ★ **SUPERIOR CONSTRUCTION**

A moderately priced unit free from technical faults found in record changers. The design of the arm reduces mechanical vibration to a minimum. Completely jam proof. Mounted on a good quality wooden base. Plays 10" and 12" records automatically.



	Your Cost	List Price
60 cycle	\$35.00	\$49.50
25 cycle	35.00	49.50

TWO NEW AUTOMATIC CHANGERS

THE NEW AND IMPROVED MODEL VM 800



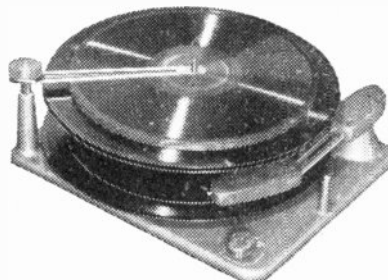
Presenting the new and improved model VM800 automatic changer. Simple sturdy construction, factory made adjustments assure long life and maintenance free operation. Colorful plastic and chromium plating add an attractive finish. All parts mounted on 11 gauge steel base plate. Utilizing durable die castings and steel stampings throughout.

- ★ **Automatically plays 10" or 12" records.**
- ★ **No distortion from the 1 1/2 ounce needle pressure.**
- ★ **Newly designed spindle reduces record wear.**
- ★ **Noiseless constant speed motor.**
- ★ **Dimensions as small as 13 1/2" deep, by 14" wide, by 7-11 16" high.**

	List Price	Your Cost
60 cycle	\$44.50	\$29.50
25 cycle	44.50	29.50

PHONOMOTORS PRESENTS THESE NEW UNITS

THE INTERMIX MODEL VM 400



UNMATCHED FEATURES THAT SELL ON SIGHT.

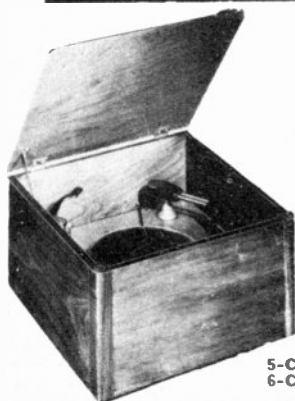
Here is custom built quality at competitive price. The 400 will intermix 10" and 12" records in any sequence unaffected by variation in diameter. The records are gently lowered, and cannot jam in the ejecting mechanism. Durable uniform die castings used throughout to withstand vibration and hard use. The use of colorful plastics and chrome plating, gives a good appearance for quick sales.

- ★ **Automatic shut off after last record has played.**
- ★ **Records change in less than 4 seconds.**
- ★ **Precision made motor gives extra power.**
- ★ **Manual operation permits playing "outside-in" recordings.**
- ★ **Simple design.**

	List Price	Your Cost
60 cycle	\$69.50	\$41.50
25 cycle	69.50	41.50

CABINET MODEL RECORD CHANGER

Model C-2



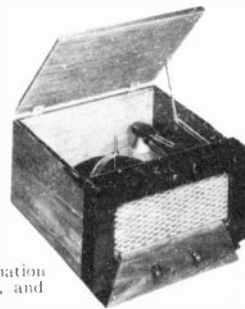
The very latest in moderately priced cabinet model record changers. This beautiful mahogany cabinet, houses the new and improved VM800 automatic changer. It can be attached to any radio, and has its own volume control. The trouble free changer, plays either 10" or 12" records. Will play both the new vinyl plastic records and standard types without adjustment. In 25 or 60 cycle.

	Your Cost	List Price
5-C2 - 25 cycle	\$48.00	\$68.50
6-C2 - 60 cycle	48.00	68.50

DELUXE ELECTRONIC PHONOGRAPH

Model RP8

This handsome wooden cabinet holds the unique 400 intermix changer. It will faithfully play a stack of mixed 10" and 12" records and then shut off automatically. The unit is completely jam proof and requires no adjustments. The records are lowered gently on the spindle so reducing record wear to a minimum. The modern cabinet which holds the playing unit, is made of only the finest materials, and would not be out of place in the best furnished rooms. A discerning buyer can easily recognise in the RP8 a combination of superior quality, advanced design, and at the right price.



	Your Cost	List Price
RP8 - 60 cycle	\$83.00	\$119.00
RP7 - 25 cycle	83.00	119.00

PLEASE SPECIFY 25 OR 60 CYCLES WHEN ORDERING

RECORD PLAYERS



NEW LOW PRICES ON QUALITY



New compact Sni-Dor automatic record player.

*New compact size length 13 $\frac{3}{4}$ " Depth 12" Height 15"

*Shock mountings.

*Ragged trouble free mechanism.

*Extra smooth, 5 second change cycle.

*Featherlight arm.

*Modern styling.

*Plays either 12-10" or 10-12" records automatically.

*No needle talk

*Protects record

*Long life needle

ONLY

	60cy.	25cy.
List Price	\$42.50	\$44.50
Your Cost	29.75	31.15

CB1-S with standard cartridge.

OPEN FACE



TWO MODELS IN THE LOW PRICE FIELD

Standard model open face record player. Low price and quality combined in this attractive model. Crystal pick-up, and self starting, Rim drive motor. Beautiful walnut veneer base. Both 25 and 60 cycle.

Standard Model

List Price 60 cy..	\$18.95	Your Cost..	\$13.50
List Price 25 cy..	18.95	Your Cost..	14.95

DeLuxe model record player in cabinet with lid. This beautiful model plays both 10" and 12" records, with unsurpassable tonal quality. Economical in price, crystal pick up arm, rim drive motor. In attractive walnut veneer cabinet.

DeLuxe Model

List Price 60 cy..	\$29.95	Your Cost..	\$19.95
List Price 25 cy..	29.95	Your Cost..	21.50

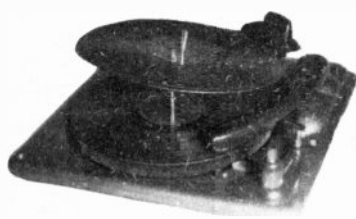
CABINET MODEL



WEBSTER CHICAGO



RECORD CHANGERS



MODEL 156-1

An automatic record changer with special stainless steel spindle, cushioned to protect records. Shuts off automatically after the last record has played. Changed ten 12" or twelve 10" records automatically at one loading. Changes records in about 4 seconds. The Webster improved rim drive gives smooth, noiseless, even power. Feather weight vertical and horizontal pressure save wear on records. Finished in baked enamel. 1025-125 volts 60 cycle.

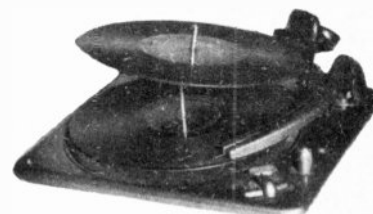
60 Cycles—Your Cost..... \$36.30



MODEL 70

The new Webster model 70 automatic record changer the choice of Music lovers. Plays a full 1 $\frac{1}{8}$ " stack of 10" and 12" intermixed records, and automatically stops after the last record has been played. Smooth and silent in operation, simple to operate, and neat in appearance. All parts are sturdy and well manufactured, assuring years of dependable use. Light weight nylon crystal cartridge.

60 Cycles—Your Cost..... \$56.85

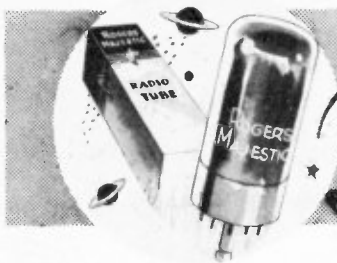


MODEL 50

Designed for use in smaller radio-phonograph combinations. Changes ten 12" or twelve 10" automatically at one loading, or single records manually. Simple 4 way switch controls the machine. Specially designed to give maximum protection to the finest discs. Easy to play, with fool proof mechanism. Dependable, Webster motor assures long operating life. Rim drive, and fast changing cycle are incorporated in this unit. Finished in baked enamel.

60 Cycles—Your Cost..... \$29.20

MONTREAL — CANADIAN ELECTRICAL SUPPLY COMPANY LIMITED — TORONTO



Rogers



ELECTRONIC Tubes



All tubes are guaranteed against defects.

FAST SELLING TYPES

GROUP NO. 1: 50% of Total Sales

1A7GT	6SK7	27
1C5GT	6SQ7	35A
5Y4G	12K7GT	35L6GT
6A7	12SA7	35Z5GT
6A8	12SK7	45
6F6	12SQ7	50L6GT
6F6G	24A	80
6Q7	26	

GROUP NO. 2: 15% of Total Sales

1A6	2X3	12Q7GT
1C7G	5Z3	30
1D5GP	6E5	35A5
1H5GT	6K7	35Z3
1H6G	6Q7GT	41
1N5GT	6SA7	42
1T4	6U5/6G5	47
	71A	

GROUP NO. 3: 30% of Total Sales

0Z4	6AF6G	7C6
0Z4G	6AK5	7C7
1A4P	6AT6	7Y4
1A5GT	6B7	12A6
1B4P	6BA6	12A8GT
1B5	6BE6	12AT6
1B7GT	6C5	12BA6
1C6	6C6	12BE6
1E7G	6D6	12SC7
1E5GP	6E5	12SG7
1F4	6F7	12SJ7
1G4GT	6H6	14Q7
1G5G	6J5	19
1G6GT	6J5GT	25L6GT
1H4G	6J7	25Z5
1LA4	6J7GT	25Z6GT
1LA6	6J8G	32
1LH4	6K5GT	33
1LN5	6K6G	34
1P5GT	6K6GT	35W4
1Q5GT	6K7G	43
1R5	6K8	46
1S4	6L6	50B5
1S5	6L6G	50Y6GT
1T5GT	6L7	55
1V	6N7	56
2A3	6R7	57
2A5	6SC7	58
2A7	6SF5	70L7GT
3Q4	6SJ7	75
3Q5GT	6SL7GT	76
5R4GY	6SN7GT	77
5T4	6V6	78
5U4G	6V6G	82
5V4G	6V6GT	83
5W4	6X5GT	83V
5V3GT	7A6	84
5Z4	7A7	85
6A8GT	7A8	117N7GT
6AD7G	7G7	117Z6GT
	7B5	
	7B6	
	7B7	
	7B8	
	7C5	

REPLACEMENTS FOR ROGERS M and A TUBES

Rogers Type	Use Type	Adaptor Number
2X3	5Y3GT	9818
2V3	5U4G	9818
6F7M	6F7	9814
6H7M	6AD7G	9816
6H7S	6AD7G	9815
6X6	6U5/6G5	9817
20J8M	14J7	9819

Your Cost..... \$1.15

FREE! Ask for our Special **INVENTORY SHEET** which shows you how to keep your stock up to date simply and efficiently.

Type	List Price	Type	List Price	Type	List Price	Type	List Price
x00A.....	\$1.30	x1P5M.....	\$2.35	6A8.....	\$2.35	6F6GT.....	\$1.60
0Y4.....	4.25	1Q5GT.....	2.35	6A8G.....	1.90	6F7.....	2.90
0Z4.....	2.35	*1Q6.....	2.35	6A8GT.....	1.90	6F8G.....	2.90
x0Z4A.....	2.35	1R4.....	2.90	6AB5.....	2.35	6G6G.....	2.35
0Z4G.....	2.35	*1R5.....	1.90	6AB7.....	2.90	6H6.....	1.60
*1A3.....	1.90	*1S4.....	2.35	6AC5GT.....	2.35	6H6GT.....	1.60
1A4P.....	3.50	*1S5.....	2.35	6AC7.....	2.90	6J5.....	1.40
1A5GT.....	1.60	*1T4.....	1.90	6AD7G.....	2.95	6J5GT.....	1.40
1A6.....	3.50	1T5GT.....	2.35	x6AE5GT.....	1.90	*6J6.....	2.90
1A7GT.....	1.90	*1U4.....	1.90	6AF6G.....	1.90	6J7.....	1.90
1B3GT.....	4.25	*1U5.....	2.35			6J7G.....	1.90
1B4P.....	3.50	1V.....	1.90	*6AG5.....	2.90	6J7GT.....	1.90
1B5.....	2.90	*1V5.....	2.35	6AG7.....	2.90	6J8G.....	2.90
1C5GT.....	1.90	*1W5.....	2.35	*6AJ5.....	2.90	*6K4.....	P.O.A.
1C6.....	3.50	*1Z2.....	2.35	*6AK5.....	4.25	6K5GT.....	1.60
				*6AK6.....	2.35		
1C7G.....	2.90	2A3.....	2.90	*6AL5.....	1.90	x6K6G.....	1.40
*1C8.....	2.35	2A4G.....	3.50	6AL7.....	1.90	6K6GT.....	1.40
1D5GP.....	3.50	2A5.....	1.90	*6AQ5.....	1.90	6K7.....	1.60
1D7G.....	3.50	2A6.....	2.90	*6AQ6.....	1.90	6K7G.....	1.60
1D8GT.....	3.50	2A7.....	2.35	*6AR5.....		6K7GT.....	1.60
x1E4G.....	1.90	2B7.....	2.35	x6AS7G.....	9.40	6K8.....	2.35
1E5GP.....	4.25	2E5.....	2.35	*6AT6.....	1.60	6K8G.....	1.90
1E7GT.....	3.50	*3A4.....		*6AU6.....	1.90	6K8GT.....	1.90
1F4.....	2.90	3A8GT.....	4.25	*6AV6.....	1.60	6L5G.....	2.35
1F5G.....	2.90	3B7.....	2.90	6B4G.....	2.90	6L6.....	3.50
1F6.....	3.50	3D6.....	2.90			6L6G.....	2.90
1F7G.....	3.50	3E6.....	2.90	6B5.....	2.90	6L7.....	2.35
1G4GT.....	2.35	3F4.....	2.90	6B6G.....	1.90	6L7G.....	2.90
1G5G.....	2.35	*3Q4.....	2.35	6B7.....	2.90	6N6G.....	4.25
1G6GT.....	2.40	3Q5GT.....	2.35	6B8.....	2.90	6N7.....	2.40
1H4G.....	1.90	*3S4.....	2.35	6B8G.....	2.90	6N7GT.....	2.35
1H5GT.....	1.90	*3V4.....	2.35	*6BA6.....	1.90	6P5GT.....	1.90
1H6G.....	2.90	5A2A.....	1.40	*6BD6.....	1.90	x6P7G.....	3.50
x1J5G.....	2.90	5R4GY.....	2.75	*6BE6.....	1.90	6Q7.....	1.90
x1J6G.....	2.90	5T4.....	3.50	*6BF6.....	1.60	6Q7G.....	1.60
1J6GT.....	2.90	5U4G.....	1.40	6BG6G.....	5.25	6Q7GT.....	1.60
*1L4.....	1.90	5V4G.....	2.35	*6BH6.....	1.90	6R7.....	2.40
1LA4.....	2.90	5W4.....	2.90	*6BJ6.....	1.90	x6R7G.....	1.60
1LA6.....	2.90	5W4GT.....	1.30	*6C4.....	1.60	6R7GT.....	1.90
1LB4.....	2.90	5X4G.....	1.60	6C5.....	1.60	6S7.....	2.35
1LC5.....	2.90	5Y3GT.....	.95	6C5GT.....	1.60	6S7G.....	2.90
1LC6.....	2.90	5Y4G.....	1.30	6C6.....	1.90	6S8GT.....	2.35
1LD5.....	2.90	5Y4GT.....	1.30	6C8G.....	2.90	6SA7.....	1.60
1LE3.....	2.90	5Z3.....	1.60	6D6.....	1.60	6SA7GT.....	1.60
1LG5.....	2.90	5Z4.....	2.90	6D8G.....	2.90	6SB7Y.....	2.35
1LH4.....	2.90	6A3.....	2.90	6E5.....	1.90	6SC7.....	1.90
1LN5.....	2.90	6A4/LA.....	2.90	6F5.....	1.60	x6SC7GT.....	1.90
x1N5G.....	2.35	6A5G.....	4.25	6F5GT.....	1.60	6SF5.....	1.60
1N5GT.....	1.90	6A6.....	2.35	6F6.....	1.90	6SF5GT.....	1.90
1P5GT.....	2.35	6A7.....	1.90	6F6G.....	1.60	6SF7.....	1.90

xTypes seldom manufactured.

*Miniature types.

**Subminiature types.

DEALERS: PLEASE WRITE



BRING THE WORLD TO YOUR LIVING ROOM

Westinghouse Tubes



Marconi



COMPLETE STOCK — We carry a complete stock of every type of radio tube. When you want "immediate delivery" order from Canadian Electrical Supply.

DEALERS: Please write for Confidential Price List.

Type	List Price	Type	List Price	Type	List Price	Type	List Price
6SG7....	\$1.90	7F7.....	\$2.35	12SQ7....	\$1.40	35Z3....	\$1.90
6SH7....	1.90	7F8.....	2.90	12SQ7GT.	1.40	35Z4GT..	1.30
6SH7GT..	1.90	7G7.....	2.90	12SR7....	1.90	35Z5GT..	1.20
6SJ7....	1.60	7H7.....	2.35	x12Y4....	2.90	36.....	2.35
6SJ7GT..	1.60	7J7.....	2.90	12Z3....	2.35	37.....	1.60
6SK7....	1.60	7K7.....	2.90	14A4....	2.90	38.....	1.90
6SK7GT..	1.60	7L7.....	2.35	14A5....	4.25	39/44....	2.35
6SL7GT..	2.35	7N7.....	2.35	14A7....	2.35	41.....	1.60
6SN7GT..	2.35	7Q7.....	1.90	14AF7....	2.35	42.....	1.60
6SQ7....	1.40	7R7.....	2.35	14B6....	2.35	43.....	1.60
6SQ7GT..	1.40	7S7.....	2.90	14B8....	2.35	45.....	1.60
6SR7....	1.60	7V7.....	2.90	14C5....	2.35	*45Z3....	1.60
6SS7....	1.90	7W7....	2.90	14C7....	2.35	45Z5GT..	1.60
6ST7....	2.35	7X7....	2.90	14E6....	1.90	46.....	2.35
6SZ7....	1.90	7Y4....	1.90	14E7....	2.35	47.....	2.35
6T7G....	2.90	x10.....	4.25	14F7....	2.35	48.....	4.25
*6T8....	P.O.A.	x12A6....	2.90	14F8....	2.90	49.....	2.35
6U5/6G5	1.90	12A7....	2.90	14H7....	2.90	50.....	4.25
6U7G....	1.60	12A8GT..	1.90	14J7....	2.90	50A5....	2.35
6V6....	2.95	12AH7GT	2.35	14N7....	2.90	*50B5....	1.90
x6V6G....	1.90	*12AL5....	1.90	14Q7....	2.35	50C5....	P.O.A.
6V6GT....	1.90	*12AT6....	1.60	14R7....	2.35	50L6GT..	1.60
6W7G....	2.35	*12AT7....	2.90	14S7....	2.90	50X6....	2.35
*6X4....	1.60	*12AU6....	1.90	14W7....	2.90	*50Y6GT..	1.60
6X5....	2.35	*12AU7....	2.35	14Y4....	2.35	50Y6GT..	1.60
6X5GT..	1.40	*12AV6....	1.60	15.....	2.90	53.....	2.35
6Y6G....	2.35	*12AW6....	2.90	19.....	2.90	55.....	1.90
6Z7G....	3.50	*12AX7....	2.35	*19T8....	P.O.A.	56.....	1.60
6ZY5G....	1.90	*12BA6....	1.90	xR20....	4.25	57.....	1.90
7A4....	1.90	*12BD6....	1.90	x22.....	3.50	58.....	1.90
7A5....	1.90	*12BE6....	1.90	24A....	1.90	59.....	2.90
7A6....	1.90	*12BF6....	P.O.A.	25A6....	2.90	70L7GT..	4.25
7A7....	1.90	12C8....	2.90	25A6G....	2.90	71A....	1.90
7A8....	1.90	12F5GT..	1.60	25L6....	2.90	75.....	1.60
7AD7....	2.90	12H6....	1.60	25L6GT..	1.65	76.....	1.60
7AF7....	1.90	12J5GT..	1.45	25Y5....	3.50	77.....	1.60
7AG7....	2.35	12J7GT..	1.90	25Z5....	1.40	78.....	1.60
7AH7....	2.90	12K7GT..	1.60	25Z6....	1.90	79.....	2.35
7B4....	1.90	12K8....	2.35	25Z6GT..	1.40	80.....	1.05
7B5....	1.90	12K8GT..	1.90	26.....	1.60	81.....	3.50
7B6....	1.90	12Q7GT..	1.60	27.....	1.40	82.....	2.35
7B7....	1.90	12SA7....	1.60	28D7....	P.O.A.	83.....	2.35
7B8....	1.90	12SA7GT..	1.60	30.....	1.90	83V....	2.90
7C4....	2.90	12SC7....	1.90	31.....	2.35	84/6Z4..	1.60
7C5....	1.90	12SF5....	1.90	32.....	3.50	85.....	1.90
7C6....	1.90	12SF5GT..	1.60	32L7GT..	3.50	89.....	1.90
7C7....	1.90	12SF7....	1.90	33.....	2.90	xR100....	2.90
7E5....	2.90	12SG7....	1.90	34.....	3.50	117L7GT..	4.25
7E6....	1.90	12SH7....	1.90	35.....	1.90	117N7GT..	4.25
7E7....	2.35	12SJ7....	1.60	35A5....	1.90	117P7GT..	4.25
		12SJ7GT..	1.60	*35B5....	1.90	*117Z3....	1.90
		12SK7....	1.60	35C5....	P.O.A.	117Z6GT..	2.35
		12SK7GT..	1.60	35L6GT..	1.60	xR200....	2.90
		12SL7GT..	2.35	*35W4....	1.20	FM1000..	3.50
		12SN7GT..	2.35	35Y4....	2.35		

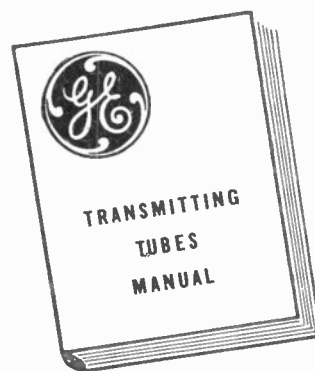
xTypes seldom manufactured.

*Miniature types.

**Subminiature types.

FREE LITERATURE

We supply free, any advertising matter you desire. Write for price lists, repair stickers, envelope stuffers and window display cards.



ILLUMINATED SIGN



A handsome illuminated sign that attracts attention to your Radio Service. Let this sign sell radio service for you. Offered to you at half cost. Sign 15" x 5" x 12".

Your Cost..... \$3.00

FOR CONFIDENTIAL PRICE LIST

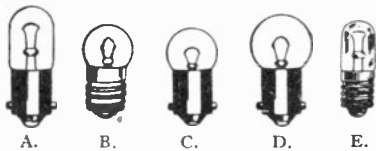


MAZDA

LONG LIFE ★ ★ ★

★ ★ ★ PILOT AND NEON LAMPS

MAZDA PILOT BULBS Highest Quality, Long Life



Lamp Number	Bulb	Rated Volts	List Price	Dealers' Net
48	E	2.0	\$0.21	\$0.13
49	A	2.0	.21	.13
41	E	2.5	.12	.08
43	A	2.5	.12	.08
42	E	3.2	.16	.10
45	A	3.2	.16	.10
40	E	6-8	.12	.08
47	A	6-8	.12	.08
44	A	6-8	.12	.08
46	E	6-8	.12	.08
1446	E	12	.21	.13
1447	E	18	.27	.18
50	B	6.8	.14	.09
51	C	6.8	.11	.07
55	D	6.8	.11	.07
63	Rogers	6.8	.12	.08
W24	E	24	.40	.26
W4	A	24	.46	.30
S11	Victor	110	.21	.16
C7			.24	.15



**Lamps for Flashlight
Handlantern, Bicycle,
Miscellaneous Service**



Lamp No.	Base	Rated Volts	List Price	Dealers' Net
112	Min. Sc.	1.1	\$0.12	\$0.08
131	Min. Sc.	1.3	.12	.08
136	Min. Sc.	1.3	.14	.09
222	Min. Sc.	2.2	.12	.08
223	Min. Sc.	2.2	.12	.08
233	Min. Sc.	2.3	.12	.08
PR-2	S.C. Min. Fl.	2.4	.18	.12
248	Min. Sc.	2.4	.14	.09
PR-6	S.C. Min. Fl.	2.5	.18	.12
14	Min. Sc.	2.5	.12	.08
PR-3	S.C. Min. Fl.	3.6	.18	.12
PR-7	S.C. Min. Fl.	3.8	.18	.12
13	Min. Sc.	3.8	.12	.08
502	Min. Sc.	5.0	.14	.09
605	Min. Sc.	6.0	.14	.09
31	Min. Sc.	6.2	.14	.09



SEALED BEAM LAMPS FOR HEADLIGHT, FOG, SPOT- LIGHT AND TRACTOR SERVICE



Lamp Number	Base	Description	List Price	Net Price
4030	3	Contact Lugs		
4010		Screw Terms.		
4011		Screw Terms.		
4012		Screw Terms.		
4012A		Screw Terms.		
4015		Screw Terms.		
4015A		Screw Terms.		
4013		Screw Terms.		
4430	3	Headlamp		
4535		Contact Lugs		
		Screw Terms.		
		Spotlight		



AUTOMOBILE LAMPS

MAZDA QUALITY AUTO BULBS

These Bulbs are guaranteed to give you excellent service. Full candle-power perfect focus. For safety's sake carry spares.



Lamp Number	Candle-Power	Bulb	Base	Volts	List Price	Dealers' Net
64	3	G-6	D.C.	6-8	\$0.16	\$0.10
81	6	G-6	S.C.	6-8	.15	.10
82	6	G-6	D.C.	6-8	.18	.12
87	15	S-8	S.C.	6-8	.29	.19
88	15	S-8	D.C.	6-8	.33	.21
1129	21	S-8	S.C.	6-8	.32	.21
1130	21	S-8	D.C.	6-8	.36	.23
1133	32	RP-11	S.C.	6-8	.35	.23
1000	32-32	RP-11	D.C.	6-8	.37	.24
1116	32-21	RP-11	D.C.	6-8	.37	.24
② 1154	21-3	S-8	D.C. Index	6-8	.40	.26
② 1158	21-3	S-8	D.C.	6-8	.36	.23
1186	50-21	RP-11	D.C.	6-8	.56	.36
1188	50-32	RP-11	D.C.	6-8	.56	.36
2320	32-21	RP-11	C.D. Pref.	6-8	.56	.36
2330	32-32	RP-11	D.C. Pref.	6-8	.53	.34
2331	32-32	RP-11	D.C. Pref.	6-8	.53	.34
2531	50-32	RP-11	D.C. Pref.	6-8	.70	.45
2520	50-21	RP-11	D.C. Pref.	6-8	.72	.47
2530	50-32	RP-11	D.C. Pref.	6-8	.70	.45
67	3	G-6	S.C.	12-16	.18	.12
68	3	G-6	D.C.	12-16	.18	.12
89	6	G-6	S.C.	12-16	.21	.13
90	6	G-6	D.C.	12-16	.21	.13
93	15	S-8	S.C.	12-16	.35	.23
94	15	S-8	D.C.	12-16	.35	.23
1141	21	S-8	S.C.	12-16	.37	.24
1142	21	S-8	D.C.	12-16	.37	.24
1143	32	RP-11	S.C.	12-16	.46	.30
1144	32	RP-11	D.C.	12-16	.46	.30
1176	21-6	S-8	D.C.	12-16	.61	.40
2326	32-21	RP-11	D.C. Pref.	12-16	.74	.48
2336	32-32	RP-11	D.C. Pref.	12-16	.71	.46



NE 30



NE 48

NEON GLOW LAMPS

The unique characteristics of Neon glow lamps recommend them for a variety of uses in radio and electronic devices . . . as indicators, voltage regulators, pilot lights and test lamps.



NE 27



NE 34



NE 45

Low current consumption with average life 3,000 hours.

Lamp No.	Watts	Bulb	Volts	Base	Dealers' Net
NE-2	1/25	T-2	105-125	Unbased (Wire Term)	\$0.25
NE-3	1/25	T-2	105-125	Unbased (Wire Term)	.25
NE-51	1/25	T-3 1/4	105-125	S.C. Bay. Min.	.25
NE-45	1/4	T-4 1/2	105-125	Cand. Screw.	.75
NE-48	1/4	T-4 1/2	105-125	D.C. Bay. Cand.	.75
NE-53	1/4	T-4 1/2	105-125	D.C. Bay. Cand.	1.00
NE-17	1/4	T-4 1/2	105-125	D.C. Bay. Cand.	.75
NE-21	1/4	T-4 1/2	105-125	S.C. Bay. Cand.	.75
NE-27	1/2	G-10	105-125 A-c	Medium Screw	.75
NE-29	1/2	G-10	105-125 A-c	D.C. Bay. Cand.	.75
NE-30	1	G-10	105-125	Medium Screw	.75
NE-31	1	G-10	105-125	Sk. Cand. Screw	.75
NE-32	1	G-10	105-125	D.C. Bay. Cand.	.75
NE-56	1	G-10	210-250	Medium Screw	.75
NE-34	2	S-14	105-125	Medium Screw	.90
NE-36	2	S-14	105-125	Sk. D.C. Bay. Cand.	.90
NE-40	3	S-14	105-125	Medium Screw	1.10
NE-42	3	S-14	105-125	Sk. D.C. Bay. Cand.	1.10

TESTER REPAIRS — BY SPECIALIZED ENGINEERS

LINE CORDS and Ballasts for Every Need

CLAROSTAT UNIVERSAL RESISTOR TUBES



These are exact duplicate units matching the various resistance values and totals of original equipment, and may be used with absolute confidence. These ballasts can be supplied to fill any experimental need. Be sure to state make and model of set and types of tubes to be used.



Universal Tube No.	Replaces AC-DC Tubes Beginning With Letters	Having Numbers From	Ending in Letter
10*23-A	BK, BL, K, L, M	10 to 23	A, B, C, D
10*23-E	BK, BL, K, L, M	10 to 23	E
10*23-F	BK, BL, K, L, M	10 to 23	F, G, H
25*55-A	BK, BL, K, L, M	23 to 55	A, B, C, D
23*55-E	BK, BL, K, L, M	23 to 55	E
23*55-F	BK, BL, K, L, M	23 to 55	F, G, H
60*92-A	BK, BL, K, L, M	60 to 92	A, B, C, D
60*92-E	BK, BL, K, L, M	60 to 92	E
60*92-F	BK, BL, K, L, M	60 to 92	F, G, H
92*105-A	BK, BL, K, L, M	92 to 105	A, B, C, D

Any Type. Your Cost each..... **\$0.84**

STEPDOWN 220 to 110 VOLT LINE CORDS

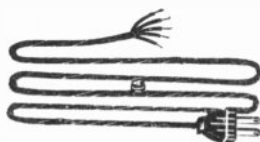
No. 2191—220-110 volt cord with American type standard male plug and cord connector—for sets using .3 amp. tubes.

Your Cost..... **\$1.92**

No. 2192—220-110 volt cord with American type standard male plug and cord connector—for sets using .15 amp. tubes.

Your Cost..... **\$1.92**

UNIVERSAL AC-DC LINE CORD



This line replaces any AC DC line cord of any type. Any value cord from 22 ohms to 330 ohms or voltage drops of 7 volts to 99 volts may be obtained.

No. 2175 Your Cost..... **\$1.38**

NEW! JFD AC-DC RESISTANCE LINE CORDS STANDARD AC-DC LINE CORDS



Flexible, sturdy cords, 3-terminal type with color-coded, tinned leads.

No.	Ohms	No.	Ohms	Your Cost
2180	135	2186	290	\$0.94
2181	160	2187	300	.94
2182	180	2188	330	.94
2183	200	2189	350	.94
2184	220	2190	390	.94
2185	250	2450	450	.94

**MORE TYPES AVAILABLE
WRITE FOR COMPLETE J.F.D. CAT.**

REPLACEMENT LINE CORD FOR MOTOROLA SETS

This 8-ft. cord is an essential replacement for practically all late Motorola portable sets. Has four terminals. Contains two resistance elements. 1100 ohms and 280 ohms.

No. 2198 Your Cost..... **\$1.65**

PORTABLE SET RESISTANCE LINE CORD (AC, DC, Battery)

New High Resistance type cord, has 560 ohms resistance.

No. 2197 Your Cost..... **\$1.38**

CLAROSTAT AUTOMATIC LINE VOLTAGE REGULATORS



Automatically adjusts line voltages for all radio sets. Compact and durable. Ideal for safe operation on fluctuating voltages. Easy to install. For 110 Volt A.C. sets.

Type No.	For Use With Sets Consuming	No. of Tubes Used	Your Cost
O	Up to 60 watts	4	
A	60 to 100 watts	5, 6, 7	
B	100 to 150 watts	8, 9, 10	
C	150 to 200 watts	11, 12	
D	200 to 250 watts	2 Type 50	
E	60 to 100 watts		Any Type \$0.84

*Note: For use with 220-volt receivers

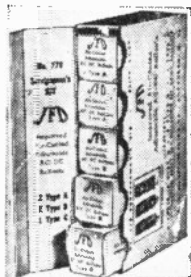
Note: We can supply ballast tubes for any make of receiver. When ordering specify make, model and types of tubes in set.

CLAROSTAT REPLACEMENT LINE BALLAST

These line ballasts will maintain the normal voltage in spite of line fluctuations over a range of from 95 to 135 volts.

Cat. No.	Receiver used in	Cat. No.	Receiver used in
6412	Brunswick S-14, S-21, S-31—25 cycle	1000	Majestic—25 cycle 181—8P3
2914	Merconi	1422	70—7BP3
		1024	90—9P3
Any Type	1516 Majestic—60 cycle 70-71 Power Pack 7P6, 1928	2832	Rogers-Majestic 400—60 cycle
Your Cost	1508 Power Pack 7BP6, 1929	2734	400—25 cycle 480—490
\$1.50	1012 Power Pack 180-181, 8P6	5001	Stewart-Warner 900
	1210 90 91-92-100	5002	950
		5003	R100
		6420	Grebe SK-4 138 volts
		6412	SK-4 114 volts

DEALER'S AND SERVICEMEN'S KIT IMPROVED.



AIR-COOLED AC-DC ADJUSTABLE BALLASTS

No. 770
Servicemen's Kit
Contains 5 Ballasts: 2 Type A, 2 Type B, 1 Type C Ballasts together with listing of over 2500 replacements and complete instructions.

No. 770—Your Cost..... **\$6.00**

Just 3 adjustable ballasts included in the kit above will replace 3000 A-C—D-C Resistance Tubes.

"FREE"—AC-DC BALLAST MANUAL

ASK FOR IT!

Gives information on how to adapt adjustable ballasts to all service jobs.



USE JFD BALLASTS

	Beginning with Letter	With Numbers Including	Ending with letter	Your Cost
"A" Ballasts	K, L, M, BK, BL, or BM	6 through 42	A, B, C, D, F, G, or H	\$1.20
"B" Ballasts	K, L, M, BK, BL, or BM	45 through 105	A, B, C, D, F, G, H, S1, S2, S3	1.20
"C" Ballasts	All 4 prongs	80 through 350	R, R4, R8, L, L4, L8	1.20

TO REPLACE AC-DC RESISTANCE TUBES

EVERYTHING WE SELL IS GUARANTEED

MALLORY
P. R. MALLORY & CO., INC.

Approved **PRECISION PRODUCTS**



"FP" and "WP" FABRICATED PLATE CAPACITORS

These low cost, compact capacitors are accepted as the industry standard for vertical mounting. Now carried in stock in a wide variety of uni-versal ratings.

SINGLE UNITS

Cap. Mtd.	Wkg. V.	Cat. No.	Your Cost
3000	10	WP032	\$3.60
1000	15	WP039	2.61
2000	15	WP041	3.78
100	25	WP055	1.17
500	25	WP057	1.95
1000	25	WP059	2.85
500	50	WP065	2.85
50	150	FP115	1.17
100	150	FP116	1.56
10	450	FP142	1.05
20	450	FP144	1.41
40	450	FP146	1.80
80	450	FP149	3.12

DUAL UNITS

1000-1000	15	WP200	3.93
50-50	150	FP214	1.68
10-10	450	FP211	1.68
20-20	450	FP234	2.13
40-40	450	FP238	3.21
10-80	450-400	FP550	3.27

DUAL UNITS PLUS BYPASS

40-20-200	150-150-25	FP304	2.40
40-20-20	150-150-25	FP306	1.86
50-30-100	150-150-25	FP309	2.40
50-50-20	150-150-25	FP311	2.04
20-15-20	250-250-25	FP316	1.95
10-10-20	450-450-25	FP332	1.89
20-20-20	450-450-25	FP339	2.37
40-40-20	450-450-25	FP346	2.91
20-15-15	450-350-300	FP380	2.40

TRIPLE UNITS

20-20-20	150	FP354	1.77
40-40-40	150	FP357	2.07
40-20-20	250	FP363	2.40
10-10-10	450	FP389	2.01
15-15-10	450	FP390	2.28

TRIPLE UNITS PLUS BYPASS

30-20-20-200	150-150-150-10	FP407	2.61
40-40-20-20	150-150-150-25	FP409	2.49
50-50-50-20	150-150-150-25	FP410	2.73
40-40-20-20	350-300-300-25	FP416	3.15
15-15-10-20	450-450-450-25	FP424	2.73
20-15-20-20	450-450-25-25	FP426	2.73
40-30-10-20	450-450-450-25	FP429	3.36

QUADRUPLE UNITS

10-10-10-10	450	FP434	2.61
20-20-20-20	450	FP444	3.60

"FP" and "WP" HARDWARE Mounting Wafers

Metal	Bakelite	Size	Your Cost
MP-2	BP-2	3/8"	\$0.05
MP-4	BP-4	1/2"	.05
MP-6	BP-6	1 1/8"	.05
PS-4	1"	Plug-in Socket	.57
PS-6	1 3/8"	Plug-in Socket	.72

ALUMINUM CASED TUBULARS



Compact hermetically sealed tubulars ideal for under-chassis mounting and all applications where space is at a premium. All TC units supplied with 3" bare wire leads.

TYPE "TC" SINGLE UNITS

Cap. Mtd.	DCWkg.	Size Dia. Lgth.	Cat. No.	Your Cost
1000	3	1 1/8 x 2 1/2	TC310	\$1.44
500	6	1 1/8 x 1 3/4	TC605	1.35
1000	6	1 1/8 x 2 1/8	TC610	1.80
500	15	1 1/8 x 2 1/2	TC1505	1.68
10	25	1 1/8 x 1 1/4	TC22	.60
50	25	1 1/8 x 1 1/2	TC26	.69
100	25	1 1/8 x 1 1/2	TC29	.81
10	50	1 1/8 x 1 1/2	TC2501	.96
10	50	1 1/8 x 1 1/2	TC32	.63
50	50	1 1/8 x 1 1/2	TC36	.72
25	50	1 1/8 x 1 1/2	TC39	.84
50	50	1 1/8 x 1 1/2	TC42	.69
10	150	1 1/8 x 1 1/2	TC45	.78
20	150	1 1/8 x 1 1/2	TC48	.87
40	150	1 1/8 x 1 1/2	TC70	.72
5	450	1 1/8 x 1 1/2	TC71	.75
10	450	1 1/8 x 1 1/2	TC72	.84
20	450	1 1/8 x 1 1/2	TC75	1.20
30	450	1 1/8 x 1 1/2	TC77	1.32
40	450	1 1/8 x 1 1/2	TC78	1.59

"TCD" COMMON NEGATIVE DUALS

25-25	25	1 1/8 x 1 1/4	TCD26	.87
20-20	150	1 1/8 x 2	TCD45	1.05
40-40	150	1 1/8 x 2	TCD48	1.35
8-8	450	1 1/8 x 2	TCD71	1.35
10-10	450	1 1/8 x 2	TCD72	1.50
20-20	450	1 1/8 x 3 1/8	TCD75	1.92

"TCS" SEPARATE SECTION DUALS

20-20	150	1 1/8 x 2 3/4	TCS45	1.59
40-40	150	1 1/8 x 2 3/4	TCS48	2.01
8-8	450	1 1/8 x 2 3/4	TCS71	1.77
20-20	450	1 1/8 x 3 1/2	TCS75	2.64



THREADED NECK CAPACITORS

Supplied in aluminum threaded neck type containers. Type RS is single section, Type RM is multiple separate section, and Type HS is for high voltage applications.

Mtd.	Volts DC	Size	Cat. No.	Your Cost
8	450	1 x 2 3/4	RS213	\$1.41
12	450	1 x 2 3/4	RS215	1.71
16	450	1 x 3 1/2	RS216	1.92
20	450	1 3/8 x 3	RS219	2.13
30	450	1 3/8 x 3	RS223	2.40
40	450	1 3/8 x 3	RS224	2.73
10	450	1 x 3	HD684	1.68
8	600	1 3/8 x 4	HS693	3.21
8-8	450	1 3/8 x 3 3/4	RM262	2.19
8-8-8	450	1 3/8 x 1 1/2	RM265	3.39

MALLORY TECHNICAL MANUAL

Simply written, practical book that bridges the gap between radio theory and practice. Designed for the radio serviceman, engineer, amateur or experimenter. 392 pages of valuable information that you should have.

Your Cost..... \$3.00

"TP" and "OW" PAPER TUBULARS



The TP capacitors are wax impregnated and furnished in waxed cardboard tubes.

The OW capacitors are oil impregnated and wax sealed to provide an extra safety factor for voltage applications higher than recommended for regular wax impregnated units.

600 VOLTS DC TYPE "TP"

Cap. Mtd.	Your Cost	Cap. Mtd.	Your Cost
.0001		.03	\$0.28
.00025		.04	.28
.0005		.05	.32
.001	\$0.20 ea.	.06	.32
.002		.1	.36
.003		.25	.44
.004		.5	.64
.005		1.0	1.00
.01	.24 ea.		
.02			

1600 VOLT DC TYPE "OW"

.0005			\$0.45
.001			.45
.004	\$.45	.02	.48
.005	.45	.03	.48
.007	.45	.04	.57
.0075	.48	.05	.57
.01	.48		

DRY ELECTROLYTIC CARD-BOARD TUBULAR CAPACITORS



Low cost filter and by pass units for above or below-chassis mounting.

All types, except TN111, which has bare leads are supplied with 8" flexible covered leads out one end except those marked (*) which have negative lead out opposite end.

SINGLE SECTIONS

Mtd.	Volts DC	Size	Mallory Catalog	Your Cost
8	450	3/4 x 2 1/2	ST595	\$0.93
16	450	1 1/8 x 2 3/4	ST597	1.23
20	450	1 x 2 3/4	ST598	1.35
30	450	1 x 3 1/2	ST599	1.47

DUAL COMMON NEGATIVE

10-10	25	5/8 x 1 3/4	TN111	.84
20-20	150	7/8 x 2 3/4	2N529*	1.05
40-20	150	7/8 x 2 3/4	2N514*	1.20
40-40	150	1 x 2 3/4	2N511*	1.35
50-50	150	1 1/8 x 2 3/8	2N521	1.65
8-8	450	1 1/8 x 2 3/4	2N518	1.53

DUAL SEPARATE SECTION

8-8	450	1 1/4 x 2 7/8	2S567	1.83
16-16	450	1 1/4 x 3 7/8	2S569	2.55

TRIPLE COMMON NEGATIVE

20-20-20	150 25	1 1/8 x 2 3/8	3N527*	1.53
20-10-10	150	7/8 x 2 1/2	TN125*	1.47
40-20-20	150	1 1/8 x 2 7/8	TN129	1.83

TRIPLE SEPARATE SECTION

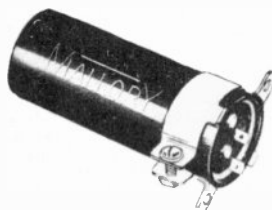
8-8-8	450	1 3/8 x 2 7/8	3S584	2.19
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QUADRUPLE SEPARATE SECTION

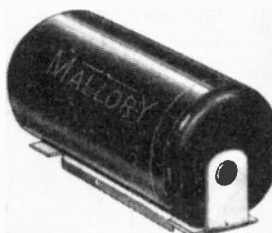
8-8, 10-10-450-25	1 3/8 x 2 7/8	4S718	2.61
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ALL INDUSTRIAL TYPE CAPACITORS AVAILABLE — WRITE FOR CATALOGUE

THEY'RE NEW — THEY'RE DIFFERENT



TYPE "P" and "MSU"



AC MOTOR STARTING CAPACITORS

Type P's are furnished in the new Mallory perfected plastic case. May be used with the new end cap and bracket. Type MSU's are the same as Type P but furnished in aluminum containers.

Cap. Mfd.	Volts AC	Size Dia.	Lgth.	Cat. No.	Your Cost
20	110	1 3/8	x 2 3/4	MSU120	\$1.80
26	110	1 3/8	x 2 3/4	MSU121	1.80
32	110	1 3/8	x 2 3/4	MSU122	1.96
38	110	1 3/8	x 2 3/4	MSU123	1.96
43	110	1 3/8	x 2 3/4	MSU124	1.96
53	110	1 3/8	x 3 3/8	P5310	2.00
64	110	1 3/8	x 3 3/8	P6410	2.00
70	110	1 3/8	x 3 3/8	P7010	2.12
75	110	1 3/8	x 3 3/8	P7510	2.12
86	110	1 3/8	x 3 3/8	P8610	2.24
97	110	1 3/8	x 3 3/8	P9710	2.28
108	110	1 3/8	x 3 3/8	P10810	2.28
124	110	1 3/8	x 3 3/8	P12410	2.40
130	110	1 3/8	x 3 3/8	P13010	2.56
145	110	1 3/8	x 3 3/8	P14510	2.96
161	110	1 3/8	x 3 3/8	P16110	3.24
194	110	1 3/8	x 3 3/8	P19410	3.88
200	110	1 3/8	x 4 1/4	MSU138	4.28
216	110	1 3/8	x 3 3/8	P21610	4.36
243	110	1 3/8	x 4 3/8	P24310	4.84
270	110	1 3/8	x 4 3/8	P27010	5.64
324	110	1 3/8	x 4 3/8	P32410	6.44
340	110	1 3/8	x 4 3/8	P34010	6.80
378	110	1 3/8	x 4 3/8	P37810	7.28
400	110	2 1/8	x 4 3/8	P40010	7.72
25	220	1 3/8	x 3 3/8	P2520	3.56
32	220	1 3/8	x 3 3/8	P3220	4.04
38	220	1 3/8	x 3 3/8	P3820	4.56
43	220	1 3/8	x 3 3/8	P4320	4.84
53	220	1 3/8	x 3 3/8	P5320	5.52
64	220	1 3/8	x 4 3/8	P6420	6.32
70	220	2 1/8	x 4 3/8	P7020	6.64
75	220	2 1/8	x 4 3/8	P7520	7.04
86	220	2 1/8	x 4 3/8	P8620	7.84

TYPE "P" HARDWARE

Description	Size	No.	Your Cost
Plastic End Cap	1 1/4	PL-3	\$0.17
Plastic End Cap	1 1/4	PL-6	.17
Plastic End Cap	2 1/8	PL-8	.23
Mtg. Bracket	3 3/8	HB-4	.23
Mtg. Bracket	4 3/8	HB-8	.29

"HC" AND "NP" CAPACITORS FOR INDUSTRIAL APPLICATIONS

This high capacity, low voltage and non-polarized capacitor is especially designed for industrial application. Useful for welding and control equipment.

Complete Mallory catalogue furnished on request.

MSS-100

DRY ELECTROLYTIC ADJUSTABLE CAPACITOR

FOR DETERMINING CORRECT CAPACITY TO USE IN MAKING REPLACEMENT OF DEFECTIVE MOTOR STARTING CAPACITORS WHICH HAVE LOST THEIR IDENTITY.

Your Cost..... \$10.12

NEW CANADIAN EDITION! Mallory Radio Service Encyclopedia

MALLORY RADIO SERVICE ENCYCLOPEDIA 3rd CANADIAN EDITION

The most complete Mallory Radio Service Encyclopedia of all—listing thousands of radio sets never before included.

Complete tube complements. I.F. Peaks. Original part numbers and recommended replacements that are readily available. Circuit references. In short, everything you need to know to do a thorough service job—quickly and profitably.

Your Cost..... \$1.50

NEW MINIATURE METAL TUBULAR CAPACITORS



APPLICATION—For hearing aid, personal radio, and other uses where very small size tubulars are desirable.

DESCRIPTION—Oil impregnated tubular capacitor in minute hermetically sealed metal tubes with insulating sleeve.

Mallory Cat.No.	Cap. Mfd.	Working Volts DC	Size	Your Cost
MT105	.001	100	9/32 x 1 1/2	\$0.72
MT107	.002	100	9/32 x 1 1/2	.72
MT115	.005	100	9/32 x 1 1/2	.72
MT125	.01	100	21/64 x 1 1/2	.72
MT127	.02	100	21/64 x 1 1/2	.75
MT135	.05	100	21/64 x 1 1/2	.75
MT145	.1	100	21/64 x 1 1/2	.81
MT605	.001	600	9/32 x 1 1/2	.75
MT607	.002	600	9/32 x 1 1/2	.75
MT615	.005	600	9/32 x 1 1/2	.75
MT625	.01	600	21/64 x 1 1/2	.75

NOISE FILTERS

Complete Instruction Book with each Filter Low Priced Appliance Filters

X1	For slight interference 1 3/8 x 1 3/8 5 amp.	Your Cost.....	\$1.29
X5	Capacity type with greater efficiency than X1 1 3/8 x 2 1/4 5 amp.	Your Cost.....	2.16
X6	For medium interference 1 1/2 x 2 1/8 5 amp.	Your Cost.....	1.29

FLUORESCENT LIGHTING FILTER

For fluorescent lights where permanent installation on or in the fixture is desired.

Z8A 3 amp. Your Cost..... \$2.40

INDUCTANCE CAPACITANCE FILTERS

Z4	For severe interference on appliance where return lead is inconvenient. Ideal for electric razors and household appliances. 1 3/8 x 3" 3 amp.	Your Cost.....	\$2.01
Z8	For severe interference with provision for return wire connection to motor or appliance frame. 1 3/8 x 3 3/8. 3 amp.	Your Cost.....	\$2.88

MOTOR BRUSH FILTERS

Mainly used where ungrounded motor frames or appliances are used. WSP recommended for elimination of possible shock hazard.

W7	For light interference. Your Cost.....	\$1.08
W7SP	For light interference. Your Cost.....	1.44
W9SP	For medium interference. Your Cost.....	1.77
W11	For Severe interference. Your Cost.....	1.68

HEAVY DUTY APPLIANCE FILTER

For portable plug in application where severe interference is involved. LC10 10 amp. Your Cost..... \$12.00



AEROVOX

Paper Capacitors

TUBULAR PAPER CONDENSERS



A general-utility paper capacitor which combines compactness with low cost. High grade paper sections are encased in sturdy wax impregnated cardboard tubes with wax filled ends for longer life and protection against moisture.

600 V.D.C. Working Type 684

Cap. Mfd.	Your Cost	Cap. Mfd.	Your Cost
.001	\$.15	.02	\$.15
.002	.15	.03	.18
.003	.15	.05	.18
.004	.15	.1	.21
.005	.15	.25	.33
.006	.15	.5	.45
.01	.15	1.0	.57

Type 1684 1600v. D.C.W.

Cap. Mfd.	Your Cost	Cap. Mfd.	Your Cost
.001	\$.33	.02	\$.33
.003	.33	.03	.33
.005	.33	.05	.42
.01	.33		

SPACE-SAVER MIDGET CONDENSERS RECTANGULAR CARDBOARD CASE



Dual and triple capacities are made with separate sections with coloured insulated leads coded for identification.

Supplied with Aerovox patented "Adjustimount" swivel flange which permits mounting the capacitor on its narrow side if space limitations so require. The flanges are made of flexible metal.

800v. Surge Pk. - 600v D.C. Work. Type PBS 600

Cap. Mfd.	D.	Size—Ins. x W.	x L.	Your Cost
4	1-7/16	x 1-1/8	x 2-7/16	\$1.59
8	1-7/16	x 1-1/2	x 3-1/8	2.25

525v. Surge Pk.—450v. D.C. Work. Type PBS 450

		Size—Ins. x W.	x L.	Your Cost
4	9/16	x 1	x 2-7/16	\$.69
8	11/16	x 1-1/8	x 2-7/16	.87
12	11/16	x 1-1/8	x 3-3/16	1.20
16	1-7/16	x 1-1/8	x 2-7/16	1.32
8-8	1-7/16	x 1-1/8	x 2-7/16	1.35
8-16	1-1/4	x 1-1/2	x 3	1.74
8-8-8	1-1/4	x 1-1/2	x 3	2.01

Type PB is similar in construction to type PBS, but is intended for somewhat heavier duty, being made with a plain foil anode (not etched).

525v. Surge Pk.—450v. D.C. Work. Type PB 450

		Size—Ins. x W.	x L.	Your Cost
8	15/16	x 1-3/8	x 4-1/8	\$.87
16	1-7/16	x 1-9/16	x 4-1/8	1.32
8-8	1-7/16	x 1-9/16	x 4-1/8	1.35

TUBULAR CARDBOARD CONTAINER CAPACITORS TYPE PRT



Wax sealed tubular units in impregnated cardboard containers. Especially suitable for use in compact assemblies. Single units have a bare wire lead at each end—Multiple units are furnished with an insulated negative lead at one end and two insulated positive leads at the other end.

525v. Surge Pk.—450v. D.C. Work. Type PRT 450

Cap. Mfd.	Dia.	Size—Ins. x Length	Your Cost
4	11/16	x 2-1/4	\$.42
8	13/16	x 2-1/4	.48
12	7/8	x 2-1/4	.57
16	7/8	x 2-3/4	.69
20	15/16	x 2-3/4	.75
30	1	x 2-3/4	.96
40	1-1/8	x 2-3/4	1.05

200v. Surge Pk.—150v. D.C. Work. Type PRT 150

		Size—Ins. x Length	Your Cost
4	9/16	x 2	\$.30
8	5/8	x 2	.36
12	5/8	x 2	.39
16	11/16	x 2	.42
20	11/16	x 2-1/4	.48
30	3/4	x 2-1/4	.51
40	13/16	x 2-1/4	.54
20-20	7/8	x 2-5/8	.75
20-40	7/8	x 2-7/8	.78
40-40	7/8	x 3-1/8	.87
60-30	1	x 3-1/8	1.14

75v. Surge Pk.—50v. D.C. Work. Type PRT 50

		Size—Ins. x Length	Your Cost
10	9/16	x 2-1/4	\$.36
25	5/8	x 2-1/4	.45
50	3/4	x 2-1/4	.54
100	7/8	x 2-1/4	.75

40v. Surge Pk.—25v. D.C. Work. Type PRT 25

		Size—Ins. x Length	Your Cost
10	9/16	x 2	\$.33
25	5/8	x 2	.39
50	11/16	x 2-1/4	.45
100	13/16	x 2-1/4	.72



STAMPED METAL-CASE PAPER CAPACITORS.

Where mechanical protection is desired for paper capacitors this unit is recommended. Type 60 is sealed in with a moisture-resisting compound.

600 V.D.C. WORKING TYPE 660

Cap. Mfd.	L x W x D	Your Cost
.05	1-13/16 x 1 x 13/16	\$.60
.1	1-13/16 x 1 x 13/16	.69

600 V.D.C. WORKING TYPE 661

Cap. Mfd.	Size—Ins. x Length	Your Cost
.25	2 x 1 3/4 x 13/16	\$.81
.5	2 x 1 3/4 x 13/16	1.08
.25-.25	2 x 1 3/4 x 13/16	1.17
.1-.1-.1	2 x 1 3/4 x 1	1.41

AEROVOX MICA CONDENSERS

TYPE 1468, Size 7 16" x 11 16"

1000v. Test-500v. D.C. Work.



Cap. Mfd.	Your Cost	Cap. Mfd.	Your Cost
.000001	\$.12	.000075	\$.12
.000005	.12	.0001	.12
.00001	.12	.00015	.12
.00004	.12	.0002	.12
.00005	.12	.00025	.15

TYPE 1467, Size 25 32" Square 1000v. Test-500v. D.C. Work.

Cap. Mfd.	Your Cost	Cap. Mfd.	Your Cost
.0005	.15	.004	.33
.001	.18	.005	.36
.002	.24	.006	.45
.003	.30	.01	.54

HIGH-VOLTAGE MOLDED-IN-BAKELITE MICA CAPACITORS



Heaviest-duty molded in bakelite mica capacitors.

TYPE 1446

D.C. Test-2500v. D.C. Work. 1200
A.C. Test-1750 A.C. Work. 875

Cap. Mfd.	Your Cost	Cap. Mfd.	Your Cost
.00005	\$.75	.001	\$.99
.000075	.75	.002	1.47
.0001	.75	.0025	1.56
.0002	.75	.003	1.65
.00025	.75	.004	1.65
.0003	.75	.005	1.89
.0004	.75	.006	1.89
.0005	.75	.008	2.43
		.01	3.06

TYPE 1447

5000v. D.C. Test-2500v. D.C. Work.
3500v. A.C. Test-1750v. A.C. Work.

Cap. Mfd.	Your Cost	Cap. Mfd.	Your Cost
.00005	\$.99	.0005	\$1.35
.000075	.99	.001	1.62
.0001	.99	.002	2.43
.0002	1.11	.0025	2.70
.00025	1.17	.003	2.97
.0003	1.20	.004	3.42
.0004	1.29	.005	3.93

UNCASED PAPER CONDENSERS



Non-inductively wound high-grade uncased sections, neatly shaped and wrapped in black varnish paper with ends sealed with pitch and provided with insulated wire leads, eight inches long. Designed for replacement use in filter block repair work.

600v. D.C. W. Type UC 600		1000v. D.C. W. Type UC 1000	
Cap. Mfd.	Your Cost	Cap. Mfd.	Your Cost
.5	\$.57	.25	\$.69
1.0	.84	.5	.96
2.0	1.26	1.0	1.35
4.0	2.46	2.0	2.28

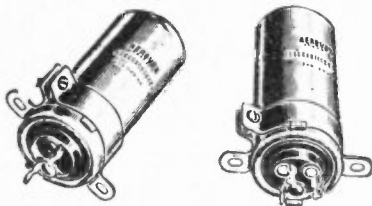
AEROVOX PRODUCTS ARE

Individually Tested!

AEROVOX

Electrolytic Capacitors

UPRIGHT OR INVERTED MOUNTING CAPACITORS Type E



Single Section (2 terminals)

Dual Section (3 terminals)

These units are widely used in highest quality radio, communications, electronic and similar types of apparatus. Type E capacitors are hermetically sealed. Ring-type clamp provides rigid and convenient method of mounting unit inverted or upright, beneath, on, or through mounting surface. Cathode connection is made through one terminal in cover.

525 v. Surge Pk.—450 v. DC Work. Type E450—Single Section

Cap. Mfd.	Size—Ins. Dia. Length	Your Cost
4	1 3/8 x 2 1/4	\$.78
8	1 3/8 x 2 1/4	.99
16	1 3/8 x 2 1/4	1.44
20	1 3/8 x 2 1/4	1.59
30	1 3/8 x 2 1/4	1.71
40	1 3/8 x 2 3/4	2.16
80	1 3/8 x 4 1/4	3.69

Type E450—Dual Element

8-8	1 3/8 x 2 1/4	\$ 1.47
8-16	1 3/8 x 2 1/4	1.83
20-20	1 3/8 x 2 3/4	2.49

Type E450—Triple Element

8-8-8	1 3/8 x 2 1/4	\$ 2.19
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Type E12—12 v. DC Working

1000	1 3/8 x 3 1/4	\$ 2.28
2000	1 3/8 x 4 1/4	2.97
4000	2 x 4 1/4	5.01

Type E25—25 v. DC Working

500	1 3/8 x 3 1/4	\$ 2.04
1000	1 3/8 x 4 1/4	3.18
2000	2 x 4 1/4	5.46
4000	2 1/2 x 4 1/4	11.40



MIDGET SCREW-MOUNTING ALUMINUM CAN CAPACITORS

525 v. Surge Pk.—450 v. DC Work. Type GLS 450

Cap. Mfd.	Size—Ins. Dia. Ht.	Your Cost
4	1 x 2 1/4	\$.78
8	1 x 2 3/4	.99
16	1 x 3 1/4	1.44

COMPLETE AEROVOX

Catalog on Request

NOTE:—We can supply any AEROVOX Condenser not listed in these pages. Send for complete AEROVOX Catalog.

SCREW-MOUNTING WIRE LEAD CONDENSERS Type GL



These inverted mounting, aluminum can condensers are made in single, double and triple section units with separate color-coded leads. Multiple section units have two leads brought out from each section.

800 v. Surge Pk.—600 v. DC Work. Type GL600—Single Section

Cap. Mfd.	Size—Ins. Dia. Ht.	Your Cost
4	1 3/8 x 4 1/4	\$ 1.71
8	1 1/2 x 4	2.40

525 v. Surge Pk.—450 v. DC Work. Type GL450—Single Section

4	1 3/8 x 3	\$.78
8	1 3/8 x 3	.99
12	1 3/8 x 3	1.29
16	1 3/8 x 3	1.44
20	1 3/8 x 3	1.59
30	1 3/8 x 3	1.83
40	1 3/8 x 4	2.10
80	1 3/8 x 4 1/2	3.69

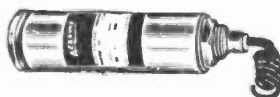
525 v. Surge Pk.—450 v. DC Work. Type GL450—Double Section

8-8	1 3/8 x 4	\$ 1.47
8-16	1 3/8 x 4	1.83
12-12	1 3/8 x 4	1.83
16-16	1 1/2 x 4	2.13
20-20	1 1/2 x 4	2.49
10-10-10	1 1/2 x 4	2.43

450 v. DC Work and 25 v. DC Work. Type GL450 x 25

10-10-25	1 3/8 x 4	\$ 2.10
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PAPER-WOUND REPLACEMENTS FOR ELECTROLYTIC CAPACITORS



High-grade paper sections encased in standard inverted screw mounting aluminum can. Used as replacements for standard electrolytics indicated, in applications subjected to high AC component or ripple particularly in first stage of filter circuit, or where excessive surges or peaks are encountered. Will give longer service than electrolytics replaced.

800 v. Surge Pk.—600 v. DC Work. Type PWC600

Rep. Mfd.	Actual Mfd.	Size—Ins. Dia. Length	Your Cost
4	2	1 3/8 x 4 1/2	\$ 1.26
8	2.75	1 3/8 x 4 1/2	1.59
8-8	1.75-1.75	1 1/2 x 4 1/2	2.58

TWIST-PRONG BASE CAPACITORS Type AF



Type AF capacitors are tightly sealed round aluminum can units, mounted by means of prongs which extend through the mounting surface and are twisted to hold the unit in place. Available with single or multiple elements. All electrical connections, except the cathode, are made through terminals in the cover. The cathode is connected to the container. One bakelite and one metal mounting plate supplied with each unit. The bakelite plate insulates the capacitor from the chassis and the metal plate grounds to the chassis. These are high-quality units especially suited for use in compact assemblies where space is limited.

Type AF450—450 v. DC Working

Cap. Mfd.	Size—Ins. Dia. Ht.	Your Cost
10	1 x 2	\$.69
20	1 x 2	1.02
40	1 x 3	1.47
10-10	1 x 2	1.11
20-20	1 x 3	1.53
10-10-10	1 x 3	1.44
20-20-20-10	1 3/8 x 3	2.37

450 v. DC Work.—25 v. DC Work. Type AF450 x 25

10-10 x 25	1 x 3	\$ 1.20
20-20 x 25	1 3/8 x 2	1.68
20-20-20x25	1 3/8 x 3	2.10

Type AF150—150 v. DC Working

20-20	1 x 2	\$.90
40-40	1 x 3	1.14
20-20-20	1 x 3	1.11
40-40-20	1 3/8 x 2	1.32

150 v. DC Work.—25 v. DC Work. Type AF150 x 25

40-40 x 25	1 x 3	\$ 1.29
80-40 x 25	1 3/8 x 3	1.53

MICA CAPACITOR COLOR CODE

Color	Significant Figure	Decimal Multiplier	Capacitance Tolerance (%)
Black	0	1	20
Brown	1	10	1
Red	2	100	2
Orange	3	1,000	3
Yellow	4	10,000	..
Green	5	..	5
Blue	6	..	..
Violet	7	..	..
Gray	8	..	..
White	9	..	..
Gold	..	0.1	..
Silver	..	0.01	10
No Color	..	..	20

AEROVOX PRODUCTS ARE*Individually Tested!*

AEROVOX

Paper & Mica Capacitors



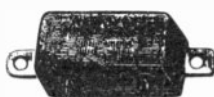
609



610



89



630-1030

IN RECTANGULAR METAL CANS HYVOL TYPE 09

Cap. Mfd.	Size—Ins. L x W x D	Your Cost
TYPE 609D—660v. D.C. Working		
1.0	2-1/8 x 1-13/16 x 1-1/16	\$3.18
2.0	2-7/8 x 1-13/16 x 1-1/16	3.87
4.0	3-1/4 x 2-1/2 x 1-3/16	5.01
6.0	4-5/8 x 2-1/2 x 1-3/16	6.15
8.0	3-7/8 x 3-3/4 x 1-1/4	7.29
10.0	4-5/8 x 3-3/4 x 1-1/4	8.19

TYPE 1009D—1000v. D.C. Working		
1.0	2-1/8 x 1-13/16 x 1-1/16	3.42
2.0	3-7/8 x 1-13/16 x 1-1/16	4.56
4.0	4-5/8 x 2-1/2 x 1-3/16	5.70
6.0	4-3/4 x 3-3/4 x 1-1/4	7.53
8.0	4-3/4 x 3-3/4 x 1-1/4	8.19
10.0	4-5/8 x 3-3/4 x 1-3/4	9.12
15.0	4-3/4 x 3-3/4 x 2-1/2	10.95

TYPE 1509D—1500v. D.C. Working		
1.0	4 x 1-13/16 x 1-1/16	4.11
2.0	4-1/8 x 2-1/2 x 1-3/16	5.70
4.0	4-5/8 x 3-3/4 x 1-1/4	7.74
6.0	4-3/4 x 3-3/4 x 1-3/4	9.33
8.0	4-3/4 x 3-3/4 x 2-1/2	11.40
10.0	4-3/4 x 3-3/4 x 3-3/16	13.68

TYPE 2009D—2000v. D.C. Working		
1.0	3-3/8 x 2-1/2 x 1-3/16	5.01
2.0	4 x 3-3/4 x 1-1/4	5.91
4.0	3-7/8 x 3-3/4 x 2-1/4	8.19
6.0	4-5/8 x 3-3/4 x 3-3/16	10.71
8.0	4-5/8 x 3-3/4 x 3-3/16	13.68
10.0	4-3/4 x 3-3/4 x 4-9/16	16.86

TYPE 2509D—2500v. D.C. Working		
.5	3-1/2 x 2-1/2 x 1-3/16	6.39
1.0	3-1/4 x 3-3/4 x 1-3/4	7.29
2.0	4-5/8 x 3-3/4 x 1-3/4	11.85
4.0	4 x 4-3/4 x 4-9/16	16.41
10.0	6-3/8 x 3-3/4 x 4-9/16	41.01

TYPE 3009D—3000v. D.C. Working		
.25	2-1/2 x 2-1/2 x 1-3/16	8.19
.5	3-7/8 x 2-1/2 x 1-3/16	9.12
1.0	3-7/8 x 3-3/4 x 1-3/4	10.95
2.0	4-1/8 x 3-3/4 x 3-3/16	13.68
4.0	4-3/4 x 3-3/4 x 4-9/16	20.04

INVERTED-MOUNTING OIL-FILLED CAPACITORS HYVOL TYPE 10

Cap. Mfd.	Size—Ins. Dia. x Ht.	Your Cost
TYPE 610—600v. D.C. Working		
2	1-1/2 x 3-1/2	\$2.49
4	1-1/2 x 5-1/4	3.42
TYPE 1010—1000v. D.C. Working		
1	1-1/2 x 2-7/8	2.28
2	1-1/2 x 4-1/2	2.97
TYPE 1510—1500v. D.C. Working		
.5	1-1/2 x 2-7/8	2.73
1.0	1-1/2 x 4-1/2	2.97

DRAWN-CASE OIL-FILLED CAPACITORS HYVOL TYPE 30

Type 30 capacitors are designed for applications requiring a compact, high grade oil impregnated and oil filled capacitor.

Cap. Mfd.	Size—Ins. L x W x H	Your Cost
TYPE 630—600v. D.C. Working		
.05	1-13/16 x 1 x 3/4	\$1.56
.1	1-13/16 x 1 x 3/4	1.59
.25	1-13/16 x 1 x 13/16	1.68
.5	1-13/16 x 1 x 15/16	1.77
1.0	2 x 1-3/4 x 7/8	2.04
2.0	2 x 2 x 1-3/16	2.73
.05-.05	1-13/16 x 1 x 13/16	1.98
.1-.1	1-13/16 x 1 x 13/16	2.01
.25-.25	1-13/16 x 1-1/4 x 7/8	2.04
.5-.5	2 x 1-3/4 x 15/16	2.34
1.0-1.0	2 x 2 x 1-1/4	2.85
.05-.05-.05	1-13/16 x 1 x 13/16	2.19
.1-.1-.1	1-13/16 x 1 x 15/16	2.28
.25-.25-.25	2 x 1-3/4 x 7/8	2.55
TYPE 1030—1000v. D.C. Working		
.05	1-13/16 x 1 x 3/4	\$1.59
.1	1-13/16 x 1 x 3/4	1.71
.25	1-13/16 x 1 x 13/16	1.74
.5	2 x 1-1/4 x 7/8	1.89
1.0	2 x 1-3/4 x 1	2.49
.05-.05	1-13/16 x 1 x 13/16	1.98
.1-.1	1-13/16 x 1 x 13/16	2.13
.25-.25	2 x 1-1/4 x 7/8	2.28
.5-.5	2 x 1-3/4 x 1	2.97
.05-.05-.05	1-13/16 x 1 x 13/16	2.28
.1-.1-.1	1-13/16 x 1-1/4 x 7/8	2.49
.25-.25-.25	2 x 1-3/4 x 1	3.18

ELECTROLYTIC MOTOR STARTING CAPACITORS

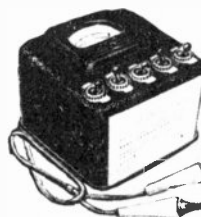


Type MSR capacitors are round, aluminum can units made with etched foil and designed for starting periods up to 1 second duration and up to 20 starts per hour. The ambient temperature should not exceed 130 degrees F (55 degrees C). Voltage should not be in excess of 120% of rated voltage. Write for complete AeroVox Catalogue.

TYPE MSR

Cap. Mfd.	Size—Ins. Dia. x Ht.	110v.AC	125v.AC	YOUR COST
64—72	1-3/8 x 2-3/4	\$1.20	\$1.24	
86—96	1-3/8 x 3-1/4	1.40	1.52	
108—120	1-3/8 x 3-1/4	1.48	1.64	
124—138	1-3/8 x 3-1/4	1.60	1.76	
145—162	1-3/8 x 4-1/4	1.72	1.88	
161—180	1-3/8 x 4-1/4	1.80	2.20	
216—240	2 x 3-1/4	2.28	2.52	
243—270	2 x 3-1/4	2.48	2.68	
270—300	2 x 3-1/4	2.52	2.96	
324—360	2 x 4-1/8	2.84	3.24	
378—420	2 x 4-1/8	3.08		
430—480	2-1/2 x 4-1/8	3.56	4.12	
500—580	2-1/2 x 4-1/8	3.96		
650—720	2-1/2 x 4-1/8	4.64	6.00	

MODEL 85 MOTOR STARTING CAPACITOR SELECTOR



"Did you ever say?" What Condenser was that? This Tester will tell you by a click of a switch. The voltmeter 0-150V A.C. can be used independently. Merely connect it's clips in place of defective capacitor.

Toggle switches provide progressive choice of capacities from 17 1/2 to 152 1/2 mfd. When adequate starting torque is obtained in less than three seconds, total the capacity from the "on" switches giving the correct capacity required.

Your Cost..... \$17.50

HERMETICALLY-SEALED OIL-FILLED TUBULARS

Type 689	Type 1089	Type 2089
600v. D.C.	1000v. D.C.	2000v. D.C.
.006		\$0.69
.0075	\$0.60	.69
.01	.60	.69
.02	.60	.69
.03	.60	.72
.05	.60	.75
.1	.69	
.25	.78	

EMERGENCY CAPACITOR MODEL 86C

PROMPT ON THE SPOT servicing of capacitor type refrigerator motors can be made immediately. Your permanent replacement can be installed at your convenience. Any required capacity from 20 to 465 mfd is obtainable. Capable of servicing higher capacity 25 cy units as well as the 60 cy units.
Your Cost..... \$6.95



AEROVOX L-C CHECKER

Here's a partial listing of what the AeroVox L-C Checker does: Checks CAPACITANCE at R.F. without removing them from circuit. Checks ALIGNMENT of r.f. circuits, also TRACKING of super-het. oscillator. Checks TUNING of wave traps and image-rejection circuits; FREQUENCY RANGES of receivers; frequency ranges of signal generators; CALIBRATION of wave meters. Identifies harmonics of frequency standard. It checks natural RESONANT POINTS of r.f. chokes making sure they are beyond operating range. It traces RESONANT ABSORPTION. It locates resonant points in SHORTED WINDINGS (unused coils) in MULTI-RANGE OSCILLATORS, etc. Checks natural period of ANTENNAE and TRANSMISSION LINES. Checks QUARTZ CRYSTALS FOR FREQUENCY. Checks FM I.F. TRANSFORMERS. Checks alignment of FM I.F. CHANNELS. Checks LEAKAGE of paper capacitors. AC or from DC, 120 volts source. Has SIX frequency ranges from 100 KC to 44 MC. Capacitance Range: .00025 mfd. — 1 mfd. Inductance Range 0-500 MH. Tubes: 6J5G, 25Z5, 6E5, VR105. Accuracy: Capacitance and Inductance 10%. Frequency ranges: A, B, C 1%. Other ranges: 2.5%.

Prices on Application.



AEROVOX PRODUCTS ARE

Individually
Tested!

AEROVOX

Interference Filters and Industrial CAPACITORS



TYPE IN-240 Designed for use in the most serious cases of radio interference from power lines and appliances. It is provided with inductance as well as capacitance for thorough filtering action. Especially desirable between device and line.—2 1/4" x 3 3/4" x 3 1/8".—
Your Cost..... **\$4.20**

TYPE IN-270 Inexpensive noise filter, inserted between set and outlet when interference is slight. Size: 1 3/8" x 1 7/8".
Your Cost..... **\$0.57**

TYPE IN-280 Intended for cases where ground is considerable distance from the point of application. Most efficient when mounted directly on interfering device by bracket. Size: 1 3/8" x 1 7/8".
Your Cost..... **\$0.81**

TYPE IN-290 Provides additional filtering action over IN-270 and IN-280. Very effective for electric razor, and other vibrating devices. Plugs between device and line. Size: 1 3/8" x 3".
Your Cost..... **\$0.81**

TYPE IN-300 Similar to IN-290 but with additional inductance. Handles more severe interference. Plugs between set and outlet. Size: 1 3/8" x 3 1/4".
Your Cost..... **\$1.05**

TYPE IN-310 Similar to IN-300 but with additional inductance. Equipped with bracket. Size: 1 3/8" x 3 1/4".
Your Cost..... **\$1.26**

AUTO-RADIO CAPACITORS

These metal cased paper capacitors are specifically designed to suppress radio interference from automotive equipment.

—150 Volts D.C. Working—

Type	Cap. Mfd.	Size—Ins. Dia. x Lth.	Your Cost
1120	1.0	1 x 2 1/4	\$0.63
1140	.5	3/4 x 2 1/4	.45
1141	.5-.5	1 x 2 3/8	.69
1142	.25	1 1/2 x 1 1/4	.45

NEW INTERFERENCE SUPPRESSOR CAPACITORS

These units are made specially for suppression of radio interference caused by fractional horsepower motors, etc. Metal cased with provision for grounding.

—125 Volts A.C. Working—
500 " D.C. "

Type	Cap. Mfd.	Your Cost
1221	.08-.08	\$0.63
1222	.08-.08-.01	.78

NEW FLUORESCENT FILTER

Recommended for suppressing line feedback noise from Fluorescent Lamps.

Type	Cap. Mfd.	Your Cost
1223	.5-5 mfd.	\$1.25



CAPACITANCE AND RESISTANCE BRIDGE

It's all done in a jiffy yet with accuracy.

Low in cost yet high in usefulness. Years of experience in testing and checking capacitor quality have been boiled down to provide this simple moderately priced instrument. Add that professional touch to any test bench.

SELF-POWERED BRIDGE for capacitance and resistance measurements—for power factor and **LEAKAGE MEASUREMENTS**—for reforming electrolytics, etc.

CAPACITANCE RANGE from 100 mfd. (.0001 mfd.) to 200 mfd. **RESISTANCE RANGE** from 10 ohms to 20 megohms. Both in **SIX RANGES**.

POWER FACTOR from 0 at 50% at 60 cycles. Leakage of **ELECTROLYTICS** on qualitative basis. Checks for **SHORTS** and **OPENS**.

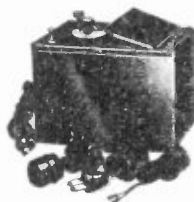
D.C. POLARIZING VOLTAGE for leakage measurements from 0 to 600V. continuously variable. **CALIBRATED IN VOLTS**. Sturdy steel cabinet. Black crackle finish.

Main 4 1/2" diameter Capacitance-Resistance linear scale—**NO CROWDING AT ENDS**—easily read with centerline celluloid pointer.

Precise setting with **MAGIC EYE INDICATOR**. Inset to provide external light shield. **NO DANGER OF DAMAGE TO TUBE**.

COMPLETE with tubes, test leads and clips. Also highly informative Instruction Manual.

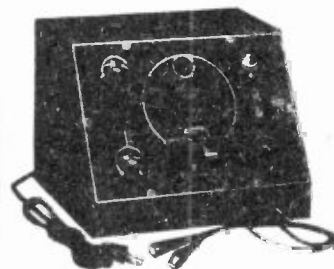
25 cycle—Your Cost.....Price on Application
60 cycle—Your Cost..... **\$59.50**



INTER-FERENCE ANALYSER TYPE ANL-37

This type plugs between interfering device and outlet. Turn selector switch until noise is eliminated or minimized and dial indicates the type of filter to use. Compartment contains test leads, attachment plugs, and clips. Size 5 1/2" x 5 1/2" x 8".
Your Cost..... **\$26.25**

AEROVOX MODEL 76



AEROVOX PRODUCTS ARE

Individually Tested!

ANALYZERS



CAPACITORS

"MINICAP" DRY ELECTROLYTICS



Cat. No.	Cap. Mfd.	W.V.	Your Cost
SINGLE CAPACITY UNITS			
M-10-50	10	50	\$.48
M-25-50	25	50	.57
M-50-50	50	50	.66
M-8-150	8	150	.48
M-16-150	16	150	.54
M-20-150	20	150	.57
M-24-150	24	150	.60
M-30-150	30	150	.60
M-40-150	40	150	.66
M-10-450	10	450	.63
M-16-450	16	450	.84
M-20-450	20	450	.90
M-30-450	30	450	1.11
M-40-450	40	450	1.32

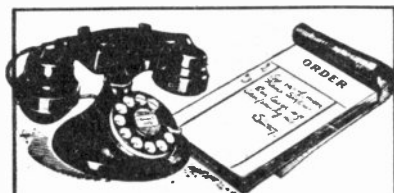
DUAL CAPACITY UNITS

M-2x20-150	20+20	150	.99
M-2x40-150	40+40	150	1.14
M-2x10-450	10+10	450	1.11

SEALDITE PAPER CAPACITORS 600 VOLT D.C. WORKING TYPE S-6

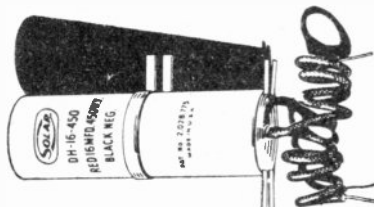
Cap. Mfd.	Your Cost	Cap. Mfd.	Your Cost
.001	\$.15	.03	\$.18
.002	.15	.04	.18
.003	.15	.05	.18
.004	.15	.06	.18
.005	.15	.1	.21
.006	.15	.25	.33
.01	.15	SDH-6.5	.48
.02	.15	SDH-6-1M	.60

When replacing broken or worn parts in your radio, it is always wisest to use the genuine replacement parts. We are distributors for all the major radio firms, and always have stock of their genuine replacement parts. For complete satisfaction buy only the best.



LONG DISTANCE
Telephone Orders Receive
Immediate Attention.
Prompt Shipment Assured.

"UNIVERSAL REPLACEMENT" DRY ELECTROLYTICS

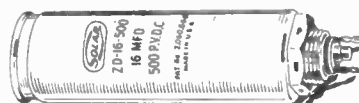


Catalogue No.	Nominal Rating Mfd. & W.V.	Your Cost
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CARDBOARD TYPES		
DH-10-450	10 450	\$.75
DH-16-450	16 450	1.05
DH-20-450	20 450	1.20
DH-30-450	30 450	1.38
DH-2x8-450	2+8 450	1.35

CAN TYPES		
D-8-450	8 450	\$1.05
D-16-450	16 450	1.44
D-20-450	20 450	1.59
D-30-450	30 450	1.83
D-2-8-450	2+8 450	1.50

WET ELECTROLYTICS



Catalogue No.	Cap. Mfd.	D.C. Peak Voltage	Your Cost
TYPE ZD			
ZD-8-500	8	500	\$.99
ZD-12-500	12	500	1.17
ZD-16-500	16	500	1.35
ZD-20-500	20	500	1.50
ZD-24-500	24	500	1.65

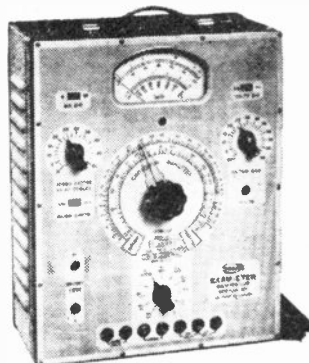
TYPE Z			
Z-30-500	30	500	1.74
Z-40-500	40	500	1.95

TYPE ZV			
ZV-8-600	8	600	1.50
ZV-16-600	16	600	2.01

**COMPLETE LINE OF SOLAR
CONDENSERS AVAILABLE.
SEND US
YOUR REQUIREMENTS.**

"SOLAR ANALYZERS"

means **EARN** more money in less time
"CHECK'S CIRCUITS" WITHOUT UNSOLDERING LEADS.
CF EXAM-ETER



- ★Has exclusive, patented "Quick-Check" circuit for qualitative tests and intermittent checks without unsoldering capacitor leads.
- ★Capacitance range-10 mmf to 2000 mf by Wien Bridge.
- ★Power Factor range-0 to 50 percent.
- ★Insulation Resistance range-3 to 10,000 megohms.
- ★Leakage Current-Reads electrolytic leakage current directly on large recessed 4 1/2 meter.
- ★Continuously Adjustable 0-550 volt D-C power supply for electrolytic tests.
- 0-600 volt, 3-range D-C vacuum tube voltmeter
- 5 50 volt, A-C vacuum-tube voltmeter.
- 100 ohm to 7.5 megohm A-C resistance bridge.

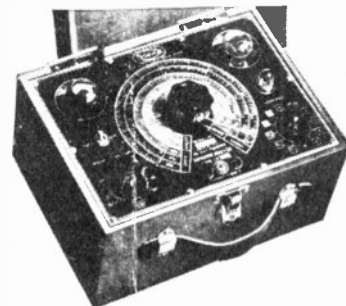
No. CF-1-60	115 volts a-c, 50-60 cycles	Your Cost \$86.00
No. CF-2-U	115-230 volts a-c, 25-60 cycles	99.00

TIME PAYMENT:

CF-1-60—\$21.50 down \$11.72 for 6 months.
CF-2-U—\$24.07 down \$13.49 for 6 months.

CAPACITOR ANALYZER & RESISTANCE BRIDGE

- ★"Magic-Eye" tube for "Quick As a Wink" bridge balance indication.
- ★Capacitance range-10 mmf to 800 mf by Wien Bridge method.
- ★Power Factor range-0 to 55 percent.
- ★Simplified Neon-Lamp circuit for visual check of insulation resistance and electrolytic leakage.
- ★Resistance Bridge-50 ohms to 2 megohm range.
- ★Easy-to-read color-coded scales.
- ★Reliable components for operation in humid climate.



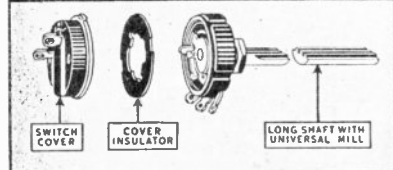
No. CBB-1-60	115 volts a-c, 50 60 cycles	Your Cost \$56.00
No. CBB-2-U	115-230 volts a-c, 25-60 cycles	67.30

TIME PAYMENT:
CBB-1-60—\$14.37 down \$8.15 for 6 months.
CBB-2-U—\$16.82 down \$9.37 for 6 months.

COMPLETE SOLAR CATALOGUE SENT ON REQUEST

CONTROLS **Centralab** CAPACITORS

CENTRALAB STANDARD RADIOHM



MODEL "M" MIDGET RADIOHM

The Midget is necessary to replace original controls in many models using small controls for space savers. Molded bakelite case, 1 1/8" diameter, 1/4" metal shaft 3 3/8" long, milled for standard push-on or set screw knob.

MIDGET RADIOHM WITHOUT TAP

Your Cost \$0.99

Resistance Ohms	Curve	Usual Circuit Location	Model M
500	1	Voltage Divider	N-157
1,000	1	Voltage Divider	N-158
2,000	1	Voltage Divider	N-159
3,000	1	Voltage Divider	N-160
4,000	1	Voltage Divider	N-161
5,000	1	Voltage Divider	N-106
5,000	6	Antenna Shunt	N-162
7,500	1	Voltage Divider	N-163
10,000	1	Antenna, C Bias	N-107
10,000	3	Antenna, C Bias	N-100
10,000	4	Antenna, C Bias	N-108
10,000	6	Antenna Shunt	N-109
15,000	3	Antenna, C Bias	N-110
15,000	4	Antenna, C Bias	N-111
20,000	3	Antenna, C Bias	N-112
25,000	1	Voltage Divider	N-113
25,000	4	C Bias	N-164
25,000	3	Antenna Shunt	N-101
50,000	1	Voltage Divider	N-114
50,000	6	Tone Control	N-115
75,000	1	Voltage Divider	N-175
75,000	6	Tone Control	N-165
75,000	4	C Bias	N-166
100,000	1	Voltage Divider	N-116
100,000	6	AF Grid or Tone	N-117
150,000	6	AF Grid or Tone	N-167
200,000	1	AF Grid or Tone	N-168
200,000	4	C Bias	N-169
250,000	1	Voltage Divider	N-176
250,000	6	AF Grid or Tone	N-102
500,000	1	Voltage Divider	N-118
500,000	4	Series in RF Plate	N-170
500,000	6	AF Grid or Tone	N-103
750,000	6	AF Grid or Tone	N-171
1 meg.	6	AF Grid or Tone	N-104
2 meg.	6	AF Grid or Tone	N-155
3 meg.	6	AF Grid or Tone	N-156
5 meg.	1	Voltage Divider	N-177
10 meg.	1	Voltage Divider	N-178

MIDGET RADIOHM WITH TAP

Your Cost \$1.47

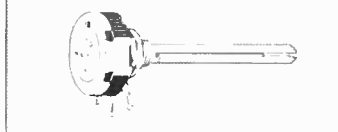
Resistance Max.	Tap	Usual Circuit Location	Model M
250,000	75,000	Tapped Audio Grid	NT-119
250,000	125,000	Tapped Audio Grid	NT-147
350,000	75,000	Tapped Audio Grid	NT-148
500,000	150,000	Tapped Audio Grid	NT-120
500,000	250,000	Tapped Audio Grid	NT-149
1 Meg.	200,000	Tapped Audio Grid	NT-150
1 Meg.	300,000	Tapped Audio Grid	NT-121
2 Megs.	200,000	Tapped Audio Grid	NT-151
2 Megs.	400,000	Tapped Audio Grid	NT-152
2 Megs.	600,000	Tapped Audio Grid	NT-122
2 Megs.	1 Meg.	Tapped Audio Grid	NT-153
2 Megs.	1 Meg.	Tapped Audio Grid	NT-154

ATTACHABLE SWITCH COVERS

Circuit	For Model M	Your Cost
Single Pole Single Throw	K-155	\$0.45
Single Pole Double Throw	K-156	.60
Double Pole Single Throw	K-157	.60
Four Point	K-158	.60
Single Pole Single Throw (With Dummy Lug)	K-169	.60

MODEL M SPLIT KNURL RADIOHM...

SPLIT KNURL MIDGET RADIOHM



Many late model radio sets use split-knurl shafts and the knobs will not fit the usual flatted shaft. Construction specifies an extruded brass rod 2 1/8" from end of bushing that allows immediate cutting to desired length as well as slotting of the fit to the exact depth of the original control without removal of the tip. Midget switch covers may be attached.

Plain Types \$0.99

Tapped Types 1.47

Resistance Ohms	Curve	Type	Catalog Number
250M	6	Plain	Nk-139
500M	6	Plain	Nk-140
1 Meg.	6	Plain	Nk-141
2 Megs.	6	Plain	Nk-142
3 Megs.	6	Plain	Nk-172
250M		Tapped @ 75M	Nk-173
500M		Tapped @ 150M	Nk-143
1 Meg.		Tapped @ 300M	Nk-144
2 Megs.		Tapped @ 600M	Nk-174

CENTRALAB ECONOMY P A CONTROLS



Economy controls designed primarily for inexpensive sound equipment. Soft aluminum shaft. Bakelite casing. Non-rubbing contact for smooth quiet operation. Maximum power rating 1 watt.

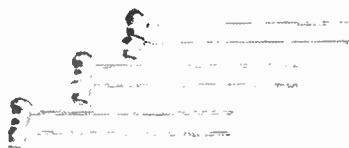
Cat. No.	Description	Resis: Ohms	Your Cost
M-140	Gain Control	250 m.	\$1.40
M-141	Gain Control	500 m.	1.40
M-142	Gain Control	1 meg.	1.40
M-143	Gain Control	2 meg.	1.40
MT-144	Straight Fader	500 m.	1.60
MT-145	Straight Fader	1 meg.	1.60
MX-146	"Delta T" Pad	50	2.80
MX-147	"Delta T" Pad	200	2.80
MX-148	"Delta T" Pad	500	2.80

CENTRALAB BC "HI-CAP" CAPACITORS

Never before has dependability, permanence and convenience of ceramic by-pass capacitors been offered at such a low cost. Features include: low mass weight, small size, special insulation, low power factor, moisture proof and high leakage resistance.

No.	Cap mfd	Size	Your Cost
D6-100	.00001	A	\$0.20
D6-250	.000025	A	.20
D6-500	.00005	A	.20
D6-101	.0001	A	.20
D6-201	.0002	A	.20
D6-301	.0003	B	.20
D6-501	.0005	B	.20
D6-751	.00075	C	.20
D6-102	.001	C	.20
D6-202	.002	D	.20
D6-502	.005	C	.24
D6-752	.0075	D	.24
D6-103	.01	D	.24

CENTRALAB ZERO AND NEGATIVE TEMPERATURE COEFFICIENT COMPENSATING CONDENSERS



In addition to units with zero temperature coefficient that are the most stable of all commercial capacitors, others with a uniform rate of negative change are available to compensate for the normal positive drift of other circuit components. Capacitors are individually flash tested at 1400 v. DC. Recommended working voltage is 500 v. DC. Power factor averages .07% with .1% the passing limit and does not increase with age. Leakage resistance is more than 10,000 megohms.

GENERAL SPECIFICATIONS

*NPO indicates zero temperature capacitor and is used where no change with temperature is desired.

**N750 indicates negative temperature compensating capacitor. N750 = .00075mm/mmm C.

Standard tolerances $\pm 2 1/2\%$ for 25 mm, and higher, $\pm .5$ mm, for 20 mm, or less.

DIMENSIONS

Type CC20, 3/8" length, 1/8" diameter
Type CC25, 1/2" length, 1/8" diameter
Type CC32, 3/4" length, 1/8" diameter
Type CC35, 1 1/8" length, 3/8" diameter
Type CC45, 1 7/8" length, 3/8" diameter

NOTE: Only one negative temperature coefficient is listed here but others are available. For complete details write for catalogue.

Capacity MMF	NPO*	N750**	Your Cost
1	CC20Z	CC20N	\$0.48
2	CC20Z	CC20N	.48
3	CC20Z	CC20N	.48
4	CC20Z	CC20N	.48
5	CC20Z	CC20N	.48
10	CC20Z	CC20N	.48
20	CC25Z	CC20N	.48
25	CC25Z	CC20N	.48
40	CC25Z	CC20N	.48
50	CC32Z	CC20N	.48
75	CC32Z	CC25N	.48
100	CC32Z	CC25N	.48
125		CC32N	.48
125	CC35Z		.64
150		CC32N	.48
150	CC35Z		.64
175		CC32N	.48
175	CC35Z		.64
200		CC32N	.48
200	CC35Z		.64
250		CC32N	.48
250	CC45Z		.80
300		CC32N	.48
300	CC45Z		.80
350		CC32N	.48
350	CC45Z		.80
400		CC35N	.64
450		CC35N	.64
500		CC35N	.64
600		CC45N	.80
700		CC45N	.80
800		CC45N	.80
1000		CC45N	.80

**FOR QUICK SERVICE
ON EVERYTHING
IN RADIO
TRY
CANADIAN ELECTRICAL**

FREE! CENTRALAB CATALOGUE SENT ON REQUEST

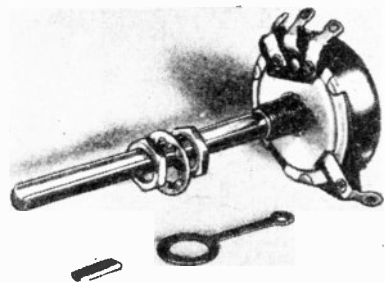
ATTACHABLE SWITCHES

No.	Your Cost
6-9 Single Pole—Single throw.....	\$.45
7 Double Pole—Single throw.....	.60
8 Single Pole—Double throw.....	.60
13 Three Pole—Single throw shorting.....	.60
14 Four Pole—Single throw shorting.....	.60

HEXAGON SHOULDER NUTS

No.	Your Cost
A11260-12 For 1/2" Panels.....	\$.21
A11260-2 For 3/4" Panels.....	.24
255 For 1/2" Panels.....	.15
RB248 1 3/4" Mounting Centers.....	.21
RB249 2 1/2" Mounting Centers.....	.21

UNIVERSAL TAPPED CONTROLS



Catalog Number	Overall Resistance	Tap Resistance
TRP601	40M	8M
TRP602	60M	4M
TRP617	60M	12M
TRP623	250M	50M
TRP603	250M	110M
TRP604	350M	20M
TRP605	350M	70M
TRP614†		
TRP616	500M	60M
TRP606	500M	100M
TRP607	500M	225M
TRP610	1 Meg.	30M
TRP608	1 Meg.	200M
TRP609††	1 Meg.	500M
TRP612	2 Meg.	15M
TRP618	2 Meg.	250M
TRP613	2 Meg.	400M
TRP620	2 Meg.	900M
TRP615	3 Meg.	900M

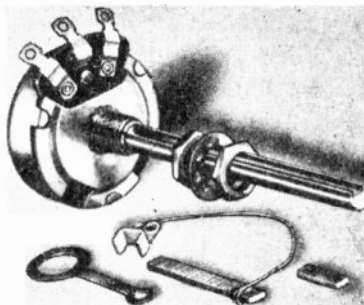
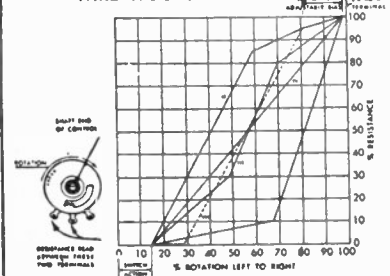
†Has slotted shaft for automobile receivers.
††Special taper for fader service.

TRP DOUBLE TAPPED

Catalog Number	Overall Resistances	Tap 1	Tap 2
TRP622	44M	7M	14M
TRP619	500M	100M	200M
TRP621†	2.25 Meg.	250M	500M
TRP624			

†No provision for switch. **Your Cost**
Any Tapped (TRP) Control \$1.47

WIRE WOUND TAPERS



UNIVERSAL SINGLE CONTROLS

Catalog Number	Type Element	Ohms Resistance	Taper
Q	W.W.	2	IV
R	W.W.	6	IV
S	W.W.	10	IV
T	W.W.	20	IV
U	W.W.	30	IV
V	W.W.	60	IV
W	W.W.	100	IV
X	W.W.	200	IV
A400P	W.W.	400	IV
A	W.W.	500	I
A550P	W.W.	550	IV
A1MP	W.W.	1M	IV
B	W.W.	1M	I
UC500	W.W.	1M	II
A2MP	W.W.	2M	IV
C12	W.W.	2M	I
C	W.W.	2M	II
A3MP	W.W.	3M	IV
D12	W.W.	3M	I
D	W.W.	3M	II
D7	W.W.	3M	VII
A4MP	W.W.	4M	IV
A5MP	W.W.	5M	IV
Y5MP	Carbon	5M	IV
E12	Carbon	5M	I
E	W.W.	5M	II
E7	W.W.	5M	VII
F12	Carbon	7500	I
F	W.W.	7500	II
F7	W.W.	7500	VII
A10MP	W.W.	10M	IV
Y10MP	Carbon	10M	IV
G12	Carbon	10M	I
G	W.W.	10M	II
UC501	Carbon	10M	II
G7	W.W.	10M	VII
H12	Carbon	15M	I
H	W.W.	15M	II
H7	W.W.	15M	VII
A20MP	W.W.	20M	IV
Y	Carbon	20M	I
Y25MP	Carbon	25M	IV
J	Carbon	25M	II
Y50MP	Carbon	50M	IV
K12	Carbon	50M	I
K	Carbon	50M	II
Z12	Carbon	75M	I
Z	Carbon	75M	II
Y100MP	Carbon	100M	IV
UC510	Carbon	100M	II
UC502	Carbon	150M	I
Y200MP	Carbon	200M	IV
Y250MP	Carbon	250M	IV
M	Carbon	250M	I
UC511	Carbon	250M	I
UC509	Carbon	250M	II
N	Carbon	500M	I
UC512	Carbon	500M	I
UC513	Carbon	500M	II
UC503	Carbon	750M	I
Y1000MP	Carbon	1 Meg.	IV
O	Carbon	1 Meg.	I
UC614	Carbon	1 Meg.	I
P	Carbon	2 Meg.	I
UC504	Carbon	3 Meg.	I
UC505	Carbon	4 Meg.	I
UC506	Carbon	5 Meg.	I
UC507	Carbon	5 Meg.	II
UC508	Carbon	9 Meg.	I

†Has Slotted Shaft for Automobile Receivers.
W.W.—Wire Wound Element.

UNIVERSAL SINGLE CONTROLS

Your Cost \$.99

UNIVERSAL DUAL CONTROLS

No.	Element	Ohms Front	Ohms Rear	Taper Front	Taper Rear
CE	W.W.	2M	5M	I	I
GE	W.W.	10M	5M	VII	IV
GG	W.W.	10M	10M	VII	IV
GK	Carbon	10M	50M	I	IV
LL	Carbon	100M	100M	I	I
LM	Carbon	100M	250M	I	I
MM	Carbon	250M	250M	I	I
MN	Carbon	250M	500M	I	I
NN	Carbon	500M	500M	I	I

W.W.—Wire Wound Element.

Universal Dual Controls—Your Cost \$2.46

SPECIAL DUAL CONTROLS

Prices do not include Switch or Accessories.

Catalog Number	Type Element	Ohms Resistance Front	Ohms Resistance Rear
DRP114	W.W.	250	5M
DRP115	Carbon	3800	3800
DRP116	W.W.	Special	Special
DRP117	W.W.	500	2500
DRP119	W.W.	3M	10M
DRP122	W.W.	645	10M
DRP169	W.W.	7500	10M
DRP221	Carbon	10M	100M
DRP222	Carbon	75M	32M
DRP232	Carbon	3 Meg.	3 Meg.
DRP239	Carbon	25M	25M
DRP240	Carbon	250M	10M
DRP244	Carbon	25M	6M
DRP246	Carbon	32M	50M
DRP250	Carbon	50M	1M
DRP301	W.W.	5M	2500
DRP302	Carbon	100M	250M
DRP304	Carbon	1 Meg.	3 Meg.
DRP306	W.W.	5M	10M
DRP308	Carbon	50M	50M
DRP311	Carbon	150M	250M
DRP314	Carbon	500M	2500
DRP315	Carbon	2 Meg.	2500
DRP317	Carbon	500M	1M
DRP318	Carbon	250M	3 Meg.

Your Cost above (DRP) Controls \$2.46
Your Cost (DRP) 306 (Price includes switch) \$2.46

VOLUME CONTROL WRENCH

For all standard Volume Control Hexagon Nuts, 1/2" to 9/16" Diam.
No. 178
Your Cost \$.21

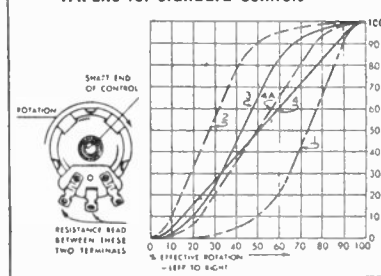
UNIVERSAL SHAFTS



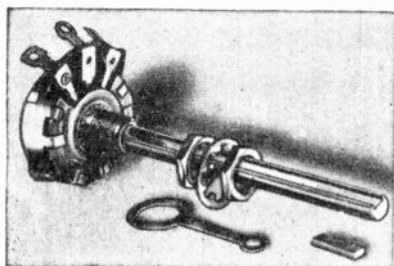
No.	Long.	Diam.	Flat	Your Cost
RS242	4"	x 1/4"	x 1/32"	\$.33
RS243	4"	x 1/4"	x 3/32"	\$.33
RS244	4"	x 3/16"	x 1/64"	\$.33
RS245	2"	x 1/4"	x 3/32" Slot.	\$.36
RS246	2"	x 3/32"	thick	\$.36

Enclosed in Tight Fitting Tube.
Tongue shaped and fitted with tube.

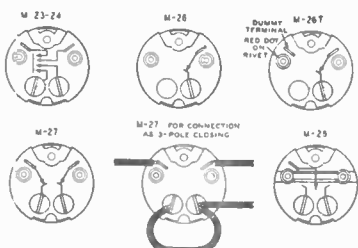
TAPERS for Standard Controls



MIDGET CONTROLS AND ACCESSORIES



MIDGET ATTACHABLE SWITCHES



For Use with MR, MK, UM, TM,

MRT, DTM Controls

Cat. No.	Circuit Arrangement	Your Cost
M-26	Single-Pole, Single-Throw	\$0.45
M-27	Double-Pole, Single-Throw	.60
M-25	Single-Pole, Double-Throw	.60
M-23	Four-Pole, Single-Throw Shorting	.60

TYPE SM—MIDGET SINGLE CONTROLS FOR SPECIAL APPLICATION

Catalog Number	Resistance Value	Tap at	Your Cost
SM300†	350M	75M	\$2.01
SM301†	2 Meg.	500M	2.01
SM302†	500M	No Tap	2.01
SM303	6 Meg.	No Tap	1.47
SM304†	1 Meg.	200M	2.01
SM305†	1 Meg.	875M	2.01
SM306†	1 Meg.	550M	2.01
SM307	2 Meg.	250M	1.47
SM308	1 Meg.	200M	1.47
SM309†	2 Meg.	600M	2.01
SM310	2 Meg.	125M	1.47
SM311†	1 Meg.	300M	2.01
SM312†	250M	No Tap	2.01
SM313†	250M	No Tap	2.01
SM316	350M	35M	1.47
SM317†	2.25 Meg. 500M & 1 Meg.		2.01

†Includes SPST switch permanently attached to control.

TYPE SMD—MIDGET SPECIAL DUAL CONTROLS

With Fixed Concentric Shaft and Switch

Catalog Number	Res. Front	Res. Rear	Tap at	Your Cost
SMD500	2 Meg.	2 Meg.		
SMD501	2 Meg.	1 Meg.	Front 500M	
SMD502	250M	1 Meg.	Rear 250M	
SMD503	2 Meg.	1 Meg.	Front 500M	
SMD504	250M	500M	Front 50M	
SMD505	250M	1 Meg.	Rear 300M	
SMD506	500M	1 Meg.	Rear 200M	
SMD507	500M	350M	Rear 70M	
SMD508	30M	1 Meg.	Rear 450M	
SMD509	2 Meg.	500M	Front 900M	
SMD510	1 Meg.	500M	Front 300M	
SMD511	1 Meg.	350M	Rear 70M	
SMD512	1 Meg.	350M	Rear 70M	

ANY TYPE SMD CONTROL..... \$3.00

TYPE MR WITH FIXED SHAFT

Catalog Number	Resistance Value	Taper	Your Cost with shaft
MR14	5M	4A	
MR18	10M	1	
MR19	10M	2	
MR20	10M	4	
MR21	15M	1	
MR22	15M	2	
MR24	20M	1	
MR28	25M	2	
MR29	25M	4	
MR33	50M	1	
MR34	50M	2	
MR35	50M	4	
MR36	75M	1	
MR37	75M	2	
MR39	100M	1	
MR40	100M	2	
MR41	100M	4	
MR42	150M	1	
MR44	250M	1	
MR45	250M	2	
MR48	500M	1	
MR50	500M	4	
MR51	750M	1	
MR55	1 Meg.	1	
MR55	2 Meg.	1	
MR57	3 Meg.	1	

\$0.99

TYPE MRT—SINGLE TAP

Type MRT (Fixed Shaft)	Overall Resistance	Tap Resistance
MRT429	250M	50M
MRT425	350M	70M
MRT428	500M	5M
MRT426	500M	15M
MRT427	500M	100M
MRT430	500M	150M
MRT431	500M	225M
MRT436	1 Meg.	125M
MRT440	1 Meg.	200M
MRT438	1 Meg.	300M
MRT443	1 Meg.	450M
MRT460	1 Meg.	500M
MRT445	2 Meg.	5M
MRT446	2 Meg.	15M
MRT447	2 Meg.	60M
MRT450	2 Meg.	125M
MRT448	2 Meg.	250M
MRT454	2 Meg.	400M
MRT449	2 Meg.	600M
MRT451	2 Meg.	900M

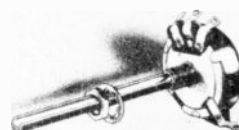
Your Cost

ANY TYPE MRT CONTROL..... \$1.47



TYPE MK MIDGET FIXED KNURLED SHAFTS NO TAPS

Cat. No.	Resistance	Taper	Your Cost
MK400	250M	1	\$0.99
MK401	500M	1	.99
MK402	1 Meg.	1	.99
MK403	2 Meg.	1	.99



SRP

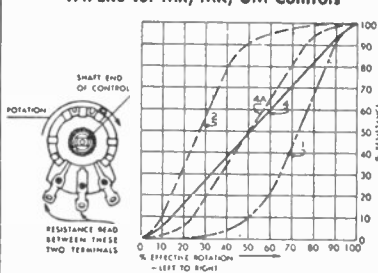
STANDARD SINGLE CONTROL WITH FIXED SHAFT

For Special Application as recommended in Mallory Radio Encyclopedia

Catalog Number	Ohms Resistance	Type Element	Your Cost
SRP134	4500	W. W.	
SRP142	2900	W. W.	
SRP152	60	W. W.	
SRP153	13M	W. W.	
SRP154	50M	Carbon	\$1.47
SRP179	125M	Carbon	
SRP185	1500	Carbon	
SRP188	32M	Carbon	
SRP213	250M	Carbon	
SRP239	450	W. W. Strip	.48
SRP241	6M	W. W. Strip	
SRP245	32M	Carbon	
SRP251	350M	Carbon	
SRP261	100M	Carbon	
SRP262	1500	W. W.	
SRP263	32M	Carbon	
SRP269	10M	Carbon	
SRP282	350M	Carbon	
SRP286†	250M	Carbon	1.47
SRP288	100M	Carbon	
SRP289	50M	Carbon	
SRP290	1 Meg.	Carbon	
SRP900	20M	Carbon	
SRP901	10M	Carbon	
SRP960	800	W. W.	
SRP961	10M	Carbon	

†Right hand switch action.

TAPERS for MR, MK, UM Controls

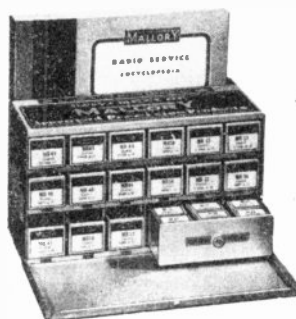


NEW MALLORY VOLUME CONTROL KIT

- FREE CABINET
- 15 POPULAR CONTROLS
- 9 ASSORTED SWITCHES
- Services 90% of your replacement needs
- Fast-moving controls at your fingertips
- Simplified inventory control
- Compact and lightweight for your workbench or wall
- Extra space for flexible inventory
- Built-in rack for your Mallory Radio Service Encyclopedia
- Attractive design helps dress up your shop
- Sturdy cabinet built for long use

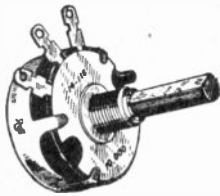
No. 1485

Your Cost..... \$19.50



VOLUME CONTROLS

Preferred for Performance



TYPES DS & CS CONTROLS

Types CS & DS controls are recommended whenever resistance value and taper are essentially correct and the only thing needed to make them mechanically suitable is to cut the shaft or, in some cases, to ground a certain terminal or attach a switch. 3" shafts from mounting surface.

Sized to suit all purposes.

DS Midget Single Controls..... List Price \$1.50 Your Cost \$0.90
CS Standard Single Controls..... " " 1.35 " " 0.81

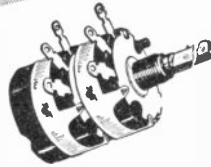
Resistance Ohms	Midget Nos.	Standard Nos.	Taper	Usual Application
500	—	CS11-103	A	Potentiometer Voltage Divider
1M	—	CS11-108	A	Potentiometer Voltage Divider
2M	—	CS11-110	A	Potentiometer Voltage Divider
3M	—	CS11-112	A	Potentiometer Voltage Divider
4M	—	CS11-113	A	Potentiometer Voltage Divider
5M	—	CS11-114	A	Potentiometer Voltage Divider
5M	—	CS13-114	C	Antenna Control
5M	—	CS14-114	D	*Antenna C. Bias Control
7500	—	CS11-115	A	Potentiometer Voltage Divider
10M	—	CS11-116	A	*Ant. Grid Bias Control
10M	—	CS13-116	C	Ant. Control
10M	—	DS13-116	C	Antenna Control
10M	—	CS14-116	D	*Ant. Grid Bias of 2 Tubes
10M	—	CS16-116	D	*Ant. Grid Bias of 1 Tube
15M	—	CS14-118	D	*Ant. Grid Bias Control
15M	—	CS16-118	F	*Ant. Grid Bias Control
20M	—	CS16-119	F	*Ant. Grid Bias Control
25M	—	CS11-120	A	Potentiometer Voltage Divider
25M	—	DS11-120	A	Potentiometer Voltage Divider
25M	—	CS14-120	F	*Antenna Control
25M	—	CS16-120	D	Potentiometer Voltage Divider
50M	—	CS11-123	C	Tone Control
50M	—	CS13-123	C	Tone Control
50M	—	DS13-123	C	Tone Control
50M	—	CS14-123	D	*Antenna Grid Bias Control
50M	—	CS13-125	C	Tone Control
75M	—	CS14-125	D	*Grid Bias Control
75M	—	CS11-128	A	Potentiometer Voltage Divider
100M	DS11-128	CS11-128	A	Potentiometer Voltage Divider
100M	DS13-128	CS13-128	C	Tone or Audio Circuit Control
200M	—	CS11-129	A	Potentiometer Voltage Divider
200M	—	CS14-129	D	*Grid Bias Control
250M	DS11-130	CS11-130	A	Potentiometer Voltage Divider
250M	DS13-130	CS13-130	C	Tone or Audio Circuit Control
250M	—	CS14-130	D	*Grid Bias Control
350M	—	CS13-132	C	Tone or Audio Circuit Control
500M	—	CS11-133	A	Potentiometer Voltage Divider
500M	DS13-133	CS13-133	C	Tone or Audio Circuit Control
500M	—	CS14-133	D	R.F. Plate Control
1.0 meg.	—	CS11-137	A	Potentiometer Voltage Divider
1.0 meg.	DS13-137	CS13-137	C	Tone or Audio Circuit Control
2.0 meg.	DS13-139	CS13-139	C	Tone or Audio Circuit Control
3.0 meg.	—	CS13-140	C	Audio Control
5.0 meg.	—	CS11-141	A	Potentiometer Voltage Divider
10.0 meg.	—	CS11-143	A	Potentiometer Voltage Divider

*Supplied with 270 ohm BW-1/2 watt Insulated Wire Wound Resistor.

STANDARD & MIDGET TAPPED CONTROLS

DS Midget Tapped Controls..... List Price \$2.25 Your Cost \$1.35
CS Standard Tapped Controls..... " " 2.00 " " 1.20

Resistance Ohms	Tap	IRC Stock No.	Taper	Usual Application
250M	125M	CS13-130X	Spec.	Audio Control with A.V.C. Tap
250M	125M	DS13-130X	Spec.	Audio Control with A.V.C. Tap
250M	60M	CS18-130X	H	Audio Control with Tone Tap
250M	60M	DS18-130X	H	Audio Control with Tone Tap
350M	75M	CS18-132X	H	Audio Control with Tone Tap
500M	125M	CS13-133X	H	Audio Control with Tone Tap
500M	125M	DS13-133X	H	Audio Control with Tone Tap
500M	50M	CS18-133X	Spec.	Audio Control with Tone Tap
1.0 meg.	250M	CS13-137X	H	Audio Control with Tone Tap
1.0 meg.	250M	DS13-137X	H	Audio Control with Tone Tap
1.0 meg.	35M	CS17-137X	Spec.	Audio Control with Tone Tap
1.0 meg.	100M	CS18-137X	Spec.	Audio Control with Tone Tap
1.0 meg.	500M	CS19-137X	Spec.	Audio Control with Tone Tap
1.0 meg.	500M	VC 539X	Spec.	Fader control for fading one circuit into another.
2.0 meg.	500M	CS13-139X	H	Audio Control with Tone Tap
2.0 meg.	500M	DS13-139X	H	Audio Control with Tone Tap
2.0 meg.	150M	CS17-139X	Spec.	Audio Control with Tone Tap
2.0 meg.	1.0 meg.	CS18-139X	Spec.	Audio Control with Tone Tap
2.0 meg.	250-500M	CS18-139X	Spec.	Audio Control with 2 Tone Tap
2.0 meg.	50M	CS19-139X	Spec.	Audio Control with Tone Tap



Dual Controls

DUAL CONTROLS

Dimensions are the same as for CS Controls, except that depth is 1 1/4" without switch; and 1-17/32" with switch.

List Price \$3.35 Your Cost \$2.01

7 DUAL CONTROLS WITH FIXED SHAFTS

I. R. C. Stock No.	Unit	Resistance Ohms	Taper
35-1620	Panel	10,000	C
	Rear	25,000	E
61-1623	Panel	10,000	F
	Rear	50,000	A
33-2828	Panel	0.1 meg.	C
	Rear	0.1 meg.	C
33-3030	Panel	0.25 meg.	C
	Rear	0.25 meg.	C
33-3333	Panel	0.5 meg.	C
	Rear	0.5 meg.	C
33-3737	Panel	1.0 meg.	C
	Rear	1.0 meg.	C
33-3939	Panel	2.0 meg.	C
	Rear	2.0 meg.	C

8 CLUTCH TYPE CONTROLS WITH FIXED SHAFTS



Have friction clutch drive-arm and are equipped with a special shaft for use where either a slotted or tongued type shaft is required.

Type DC..... List Price \$2.60..... Your Cost \$1.56

I R C Stock No.	Resistance Ohms	Resistance to Tap
DC13-130	250M	
DC18-130X	250M	Tap 60M
DC13-133	500M	
DC13-133X	500M	Tap 125M
DC13-137	1.0 meg.	
DC13-137X	1.0 meg.	Tap 250M
DC13-139	2.0 meg.	
DC13-139X	2.0 meg.	Tap 500M

8 STANDARD TAPERS

A—Used as potentiometer or rheostat in any circuit where uniform resistance change is required.

B—A semi-logarithmic curve used as tone control or audio circuit control.

C—A logarithmic curve. Used as audio circuit control or antenna shunt control.

D—Tapered at both ends to provide control of grid bias and antenna circuit. Used where control of grid bias is of prime importance in controlling volume.

E—Used as a rheostat in cathode circuit to control grid bias.

F—Tapered at both ends to provide control of grid bias and antenna circuit. Used where control of grid bias is essential in controlling volume. Generally used where the control changes the grid bias of only one or two tubes. Must not be used with heavy currents.

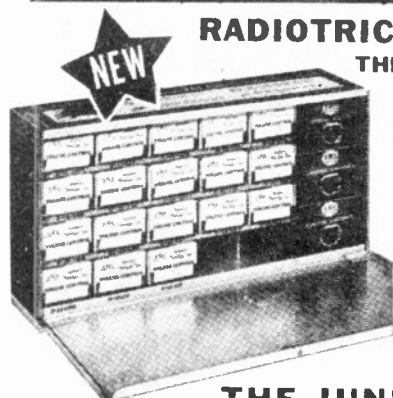
G—A logarithmic curve with very gradual change in resistance from left terminal. Used as audio circuit control or antenna shunt control.

H—A tapered logarithmic curve used as audio level control for automatic bass compensation.

QUICKLY ATTACHED SWITCHES

Description	For DS Controls	For CS Controls	List Price	Your Cost
SP., ST	—	No. 21	\$0.65	\$0.39
DP., ST	—	22	.80	.48
SP., DT	—	23	.80	.48
Three Point	—	24	.80	.48
Four Point	—	25	.80	.48
SP., ST at clock wise position	—	26	.80	.48
SP., ST with dummy lug	—	27	.80	.48
SP., ST	No. 41	—	.75	.45
DP., ST	No. 42	—	.90	.54

EVERYTHING IN ELECTRONICS

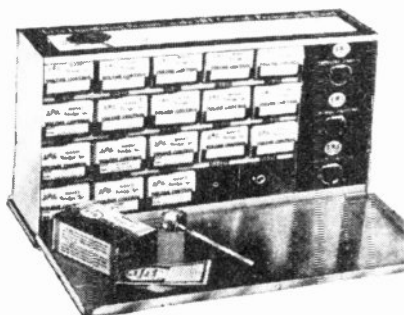


RADIOTRICIAN'S CONTROL CABINETS THE MASTER VOLUME CONTROL KIT

THE CABINET IS FURNISHED **FREE** when you buy these 20 controls, 5 shafts and 6 switches.

- *Solve your volume control inventory problem.
- *Increase your profits . . .
- *Have the control you need — when you need it.
- *Avoid frequent need for more costly special replacements.

Master Kit — Your Cost \$21.66



THE JUNIOR FREE CABINET!

A REAL PROFIT BUILDER

YOU GET A FREE CABINET WHEN YOU BUY THESE 9 "MOST USED" TYPE CS CONTROLS AND 4 SWITCHES. CABINET SMARTLY TRIMMED.

Junior Kit — Your Cost \$9.72

"SERVICEMAN'S SPECIAL" IRC BASIC KIT



- SAVE TIME AND MONEY
- BUY YOUR SHOP IN A LOT
- GET THESE CABINETS FREE

BTS — 10 ea.—1000, 2200, 4700, 10M, 15M, 22M, 27M, 47M, 75M ohms; 0.1, 0.22, 0.47, 1.0, 2.2, 10.0, 15.0 meg.

160 BTS
BTA — 5 ea.—470, 1000, 1500, 2200, 3600, 4700, 22M, 36M, 75M ohms.
10 ea.—10M, 15M, 47M ohms; 0.1, 0.24, 0.47, 1 meg.

115 BTA
BW-1 — 10 ea.—100, 150, 220, 330, 470, 560 ohms.

60 BW-1
BW-1 — 5 ea.—47, 82, 100, 270 ohms.

20 BW-1
AB — 2 ea.—100, 250, 500, 750, 1M, 1500, 2500, 5M, 10M ohms.

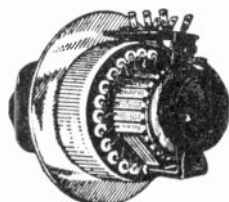
18 AB
2 ea.—15M, 25M ohms.

CONTROLS — SWITCHES SHAFTS

- 4—D13-133, 1—D13-137
- 1—D13-139,
- 1—D13-133X, 1—D13-137X
- 2—No. 41 Switches, 1—No. 42 Switch
- 2 E Shafts, 1 H Shaft

Basic Kit — Your Cost \$58.50
Tools and condensers can be added to this kit.
Complete listing sent on request.

ATTENUATORS



Type A-21 is a 20-step molded motor commutator type.

Type B-31 is a 30-step stud type attenuator for low level work.

Type	Impedance	Network	Your Cost
B-31T50	50 ohms	Bridged T.	\$24.50
B-31T200	200 ohms	Bridged T.	24.50
B-31T250	250 ohms	Bridged T.	24.50
B-31T500	500 ohms	Bridged T.	24.50
A-21L50	50 ohms	Ladder	10.00
A-21L200	200 ohms	Ladder	10.00
A-21L250	250 ohms	Ladder	10.00
A-21L500	500 ohms	Ladder	9.50
A-21-250M	250,000 ohms	Potent	10.00

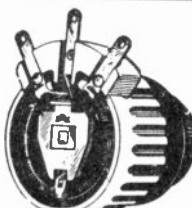
L-PADS (Dual)

Type J-1088	50 ohms*
Type J-1089	200 ohms*
Type J-1090	250 ohms*
Type J-976	500 ohms
Your Cost	\$2.01

T-PADS (triple)

Type J-1091	50 ohms*
Type J-1092	200 ohms*
Type J-1093	250 ohms*
Type J-977	500 ohms
Your Cost	\$2.85

*These controls are Wire Wound.



ALL METAL RHEOSTATS

Operating temperatures are cut almost in half by the unique, all-metal aluminum construction.

PR-25 — 25 WATTS

Ohms	Max. m.a.	Your Cost
0.5	7,000	\$4.38
1	5,000	4.38
2	3,450	3.90
3	2,880	3.90
4	2,040	3.90
6	1,770	3.90
8	1,580	3.90
10	1,290	3.90
15	1,080	3.90
25	845	3.90
35	709	3.90
50	575	3.90
75	500	3.90
100	445	3.90
125	375	3.90
150	315	3.90
225	267	3.90
300	222	3.90
350	173	3.90
500	155	4.38
1,000	129	4.38
1,500	100	4.38
2,500	84	4.65
3,500	70	4.65
5,000		

PR-50 — 50 WATTS

Ohms	Max. m.a.	Your Cost
.05	10,000	\$4.38
1	7,070	4.89
2	5,000	4.89
4	3,520	4.38
6	2,880	4.38
8	2,500	4.38
12	2,040	4.38
16	1,770	4.38
22	1,500	4.38
35	1,190	4.38
50	1,000	4.38
80	790	4.38
125	630	4.38
150	575	4.38
225	470	4.38
300	407	4.38
315	315	4.38
500	250	4.65
800	223	4.65
1,000	177	4.65
1,600	140	4.65
2,500	120	4.89
3,500	100	4.89
5,000	79	4.89
8,000	70	4.89
10,000		

STANDARD COLOR CODE



Gold or Silver Indicates Tolerance, when applied.

Color for No. of Ciphers or Multiplier.

Color for 2nd significant figure.

Color for 1st significant figure.

Color	Significant Figure	Multiplying Value
Black	0	.0
Brown	1	.10
Red	2	1.00
Orange	3	1.000
Yellow	4	10.000
Green	5	100.000
Blue	6	1,000.000
Violet	7	10,000.000
Gray	8	100,000.000
White	9	1,000,000.000
Gold	± 5% Tolerance	.01
Silver	± 10% Tolerance	.01
No Color	± 20% Tolerance	

EXAMPLES

43,000 ohms Yellow (4) Orange (3) Orange (X1000)
3,000 ohms Orange (3) Black (0) Red (X100)
3.3 ohms Orange (3) Orange (3) Gold (0.1)



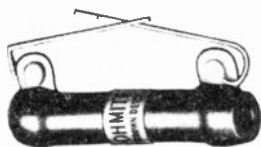
HERE'S SOMETHING NEW—The RESIST-O-GUIDE, a practical aid in resistor range identification for every Radioman. To use simply turn its three wheels to correspond with the color code on any composition-type resistor—the standard RMA range is automatically and accurately indicated. Readings are direct . . . no cumbersome calculations!

Your Cost \$4.15

FREE - IRC COMPLETE CATALOGUE ON REQUEST

BE RIGHT WITH OHMITE

RHEOSTATS
RESISTORS
SWITCHES
CHOKES



POPULAR OHMITE "BROWN DEVIL" RESISTORS

High quality, small size, wire wound resistors ideal for voltage, dropping, bias units, bleeders, etc. They're extra-sturdy, all-porcelain, vitreous enameled. They give time-proved protection against shock, vibration, heat and humidity. Their long record of continuous trouble-free service—their wide use in all climates of the world—prove their complete reliability and economy. All units have 1 1/2" tinned wire leads. Also available, 5 watt brown devil core size 1" x 3/4".



10 Watt—1 1/2" x 5 1/2" Core Size					
Ohms	Mils.	Ohms	Mils.	Ohms	Mils.
1	3,160	350	169	6,000	30
2	2,235	400	158	7,000	34
3	1,825	450	149	7,500	32
4	1,580	500	141	8,000	31
5	1,414	600	129	8,500	29
7.5	1,155	700	119	10,000	26
10	1,000	750	115	11,000	24
12	910	800	111	12,000	23
15	816	900	105	12,500	22
20	707	1,000	100	13,500	21
25	632	1,100	95	14,300	20
30	575	1,200	91	15,000	19
35	535	1,250	89	16,000	18
40	500	1,500	79	17,500	17
50	447	1,750	74	18,000	17
75	365	2,000	69	20,000	16
100	316	2,250	64	22,500	15
125	283	2,500	63	25,000	14
150	258	3,000	56	30,000	8
200	223	3,500	51	35,000	7
225	217	4,000	47	40,000	7
250	200	4,500	45	45,000	6
300	182	5,000	43	50,000	6

Your Cost	
0.4 to 1,000 ohms.....	\$0.47
1,100 to 5,000 ohms.....	.51
6,000 to 10,000 ohms.....	.58
11,000 to 20,000 ohms.....	.64
22,500 to 24,000 ohms.....	.69
30,000 to 50,000 ohms.....	.78

20 Watt—2" x 7 1/2" Core Size					
Ohms	Mils.	Ohms	Mils.	Ohms	Mils.
5	2,000	1,250	126	15,000	30
10	1,414	1,500	115	20,000	24
25	894	1,750	107	25,000	20
50	632	1,850	104	30,000	17
75	516	2,000	100	35,000	15
100	447	2,250	94	40,000	14
150	365	2,400	91	45,000	13
200	316	2,500	89	50,000	12
250	283	2,750	85	55,000	8.0
300	258	3,000	81	60,000	8.0
350	239	3,500	75	65,000	7.0
400	223	4,000	70	70,000	7.0
500	200	4,500	66	75,000	7.0
650	175	5,000	63	80,000	7.0
700	169	6,000	57	85,000	6.0
750	163	7,000	53	90,000	6.0
800	158	7,500	51	95,000	6.0
850	153	8,000	50	100,000	6.0
1,000	141	10,000	43		
1,200	129	12,500	35		

Your Cost	
0.4 to 1,000 ohms.....	\$0.60
1,200 to 5,000 ohms.....	.63
6,000 to 10,000 ohms.....	.73
12,500 to 20,000 ohms.....	.76
25,000 to 40,000 ohms.....	.87
45,000 to 60,000 ohms.....	1.00
65,000 to 80,000 ohms.....	1.17
85,000 to 100,000 ohms.....	1.36

NEW OHM'S LAW CALCULATOR

Pocket Size



Solves Ohm's Law problems with only one setting of the slide. No decimal points to cause confusion—all values are direct reading. Requires no slide rule knowledge.

Ohmite Ohm's Law Calculator. Your Cost..... \$0.20

RITEOHM SERIES "84" PRECISION RESISTORS

Ohms	Max. Voltage	Max. Ohms	Max. Voltage	Max. Ohms	Max. Voltage
*0.1	.316	4,000	44.70	.125 Meg.	20
0.5	.500	5,000	50.00	.150 Meg.	200
1	.707	7,500	61.20	.175 Meg.	200
10	2.24	10,000	70.70	.200 Meg.	200
25	3.54	12,500	79.00	*.225 Meg.	400
50	5.00	15,000	86.60	*.250 Meg.	400
100	7.07	20,000	100	*.300 Meg.	400
200	10.00	22,500	106	*.400 Meg.	400
250	11.20	25,000	112	1.500 Meg.	400
300	12.20	30,000	122	1.600 Meg.	400
500	15.80	40,000	141	1.750 Meg.	400
1000	22.40	50,000	158	1.900 Meg.	400
1500	27.40	60,000	173	1.0 Meg.	400
2000	31.60	75,000	194	1.15 Meg.	400
2500	35.40	1 Meg.	200		

*Type 844-A 4 Pie—1 Watt Size 1/2" x 3/8"
†Type 844-B 4 Pie—1 Watt Size 3/8" x 1/2"
All others Type 842-A 2 Pie—1/2 Watt Size 1/2" x 1/2"



High quality, 1% tolerance, 1 watt, non-inductive, pie-wound units for meter multipliers, lab. equipment, etc.

Ohms	Your Cost	Ohms	Your Cost
0.1 to 500	\$0.88	.225 to .25 Meg.	\$2.71
1,000 to 2,500	.94	.3 megohm	2.97
4,000 to 10,000	1.04	.4 megohm	3.12
12,500 to 15,000	1.15	.5 megohm	3.54
20,000 to 50,000	1.41	.6 megohm	4.43
60,000 to 75,000	1.67	.75 megohm	4.69
.1 megohm	1.93	.9 megohm	4.95
.125 megohm	2.19	1.0 megohm	5.47
.15 to .2 megohm	2.45	1.5 megohm	7.80

Complete Listings in stock catalog.

Stock No.	Total Micro-henries	Amps	Total D.C. ohms	Core dimensions	Your Cost
Z-20	14	5	0.15	4" x 1 1/2"	\$1.72
Z-21	15	10	0.07	6 1/2" x 3 1/2"	2.87
Z-22	18	20	0.045	8 1/2" x 1 1/2"	4.16
*Z-30	46	20	0.085	8 1/2" x 1 1/2"	6.24

Ohmite "Little Devils" are full 1/2 Watt, 1 Watt and 2 Watt Insulated Composition Resistors and can be used at their full wattage ratings at 70°C (158°F) ambient temperature. They dissipate heat rapidly... have low noise level and low voltage coefficient. All units are color coded. An important feature is the individual marking of the resistance value, wattage rating, and the Ohmite trade mark on each resistor. In the 1 watt size, ±10% tolerance, values as low as 2.7 ohms are available from stock. Little Devils are also available in 1/2 and 1 watt sizes with ±5% tolerance.

Ohms	Ohms	Ohms	Megohms
*2.7	150	8,200	0.47
*3.3	180	10,000	0.56
*3.9	220	12,000	0.68
*4.7	270	15,000	0.82
*5.6	330	18,000	1.00
*6.8	390	22,000	1.2
*8.2	470	27,000	1.5
10	560	33,000	1.8
12	680	39,000	2.2
15	820	47,000	2.7
18	1,000	56,000	3.3
22	1,200	68,000	3.9
27	1,500	82,000	4.7
33	1,800	0.1 Meg.	5.6
39	2,200	0.12 Meg.	6.8
47	2,700	0.15 Meg.	8.2
56	3,300	0.18 Meg.	10.0
68	3,900	0.22 Meg.	12.0
82	4,700	0.27 Meg.	15.0
100	5,600	0.33 Meg.	18.0
120	6,800	0.39 Meg.	22.0

*1 Watt Size Only.

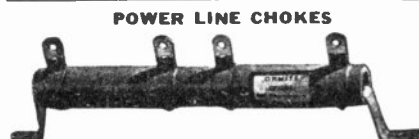
Type	Size Length Diam.	Resistance Range	Maximum Volts	Your Cost
1/2 watt	3/8" 3/16"	10 ohms to 22 meg.	350	\$0.11
1 watt	1/2" 1/4"	10 ohms to 22 meg.	500	.14
2 watt	1 1/4" 1/4"	10 ohms to 22 meg.	1000	.20

OHMITE R.F. PLATE CHOKES



Stock No.	Operating range Megacycles	Micro-henries	Core Dimension	Your Cost
Z-7	3 to 20 Mc.	84.0	6" x 1 1/2"	\$1.25
Z-14	7 to 35 Mc.	44.0	2" x 1 1/2"	.55
Z-28	20 to 60 Mc.	21.0	1 3/4" x 1 1/2"	.36
Z-50	35 to 110 Mc.	7.0	7/8" x 1 1/2"	.27
Z-144	80 to 200 Mc.	1.8	3/4" x 1 1/2"	.27
Z-235	160 to 350 Mc.	0.84	3/4" x 1 1/2"	.27
Z-460	320 to 520 Mc.	0.20	1 1/2" x 1 1/2"	.27

Non-magnetic Brackets with Z-7. All chokes 1000 ma. rating except Z-14 and Z-28 rated at 600 ma.



POWER LINE CHOKES

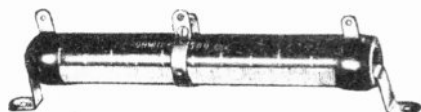
ASK FOR WHAT YOU DO NOT SEE IN OUR CATALOGUE

BE RIGHT WITH OHMITE

RHEOSTATS
RESISTORS
SWITCHES
CHOKES

OHMITE DIVIDOHM RESISTORS

OHMITE FIXED RESISTORS



All-Porcelain
Vitreous-Enamelled



You can adjust the resistance or secure odd resistance values quickly with these Dividohms; easily put on more taps where needed. Ideal voltage dividers. With one adjustable lug and with mounting brackets.

Extra-sturdy, wire-wound, all-porcelain resistors with the permanent protection of Ohmite's Vitreous Enamel. Widely used for heavy duty applications to assure continuous trouble-free service. With brackets.

COMPLETE OHMITE CATALOGUE SENT ON REQUEST

10 WATTS					
Core Size 1 1/4" x 3/4"			Mounting Centers 2 1/4"		
Adjustable Res.			Adjustable Res.		
Res. Ohms.	Max. Mils.	Stock No.	Res. Ohms.	Max. Mils.	Stock No.
1	3,150	1001	750	115	1021
2	2,235	1002	800	111	1022
3	1,825	1003	1,000	100	1023
5	1,415	1004	1,250	89	1024
7.5	1,155	1005	1,500	79	1025
10	1,000	1006	2,000	69	1026
15	816	1007	2,250	64	1027
20	707	1008	2,500	63	1028
25	632	1009	3,000	56	1029
50	447	1010	3,500	51	1030
75	365	1011	4,000	47	1031
100	316	1012	4,500	45	1032
150	258	1013	5,000	43	1033
200	223	1014	6,000	38	1034
250	200	1015	7,000	34	1035
300	182	1016	7,500	33	1036
350	169	1017	8,000	31	1037
400	158	1018	8,500	29	1038
500	141	1019	9,000	28	1039
600	129	1020	10,000	26	1040
Your Cost 1 to 1,000 ohms.....					\$0.96
Your Cost 1,250 to 5,000 ohms.....					1.00
Your Cost 6,000 to 10,000 ohms.....					1.07

75 WATTS					
Core Size 6" x 3/4"			Mounting Centers 6 3/4"		
Adjustable Res.			Adjustable Res.		
Res. Ohms.	Max. Mils.	Stock No.	Res. Ohms.	Max. Mils.	Stock No.
5	3,870	0769	5,000	122	0783
10	2,735	0770	6,000	111	0783B
15	2,236	0771	7,000	103	0783C
25	1,732	0772	7,500	100	0784
50	1,224	0773	8,000	96	0784B
100	866	0774	9,000	91	0784C
200	612	0774B	10,000	86	0785
250	547	0775	12,000	79	0785B
300	500	0775B	15,000	70	0786
400	433	0775C	20,000	61	0787
500	387	0776	25,000	49	0788
750	316	0777	30,000	42	0789
1,000	273	0778	35,000	36	0790
1,250	245	0778B	40,000	32	0791
1,500	223	0779	45,000	29	0792
2,000	193	0780	50,000	26	0793
2,500	173	0781	60,000	22	0794
3,000	158	0781B	80,000	17	0795
3,500	146	0782	100,000	13	0796
4,000	136	0782B			
Your Cost 5 to 1,000 ohms.....					\$1.82
Your Cost 1,250 to 5,000 ohms.....					1.89
Your Cost 6,000 to 10,000 ohms.....					2.00
Your Cost 12,000 to 20,000 ohms.....					2.12
Your Cost 25,000 to 40,000 ohms.....					2.34
Your Cost 45,000 to 60,000 ohms.....					2.40
Your Cost 80,000 ohms.....					2.63
Your Cost 100,000 ohms.....					2.89

ADJUSTABLE LUGS					
Bakelite knob			Screw Driver Type		
Res. Dia.	Stock No.	Your Cost	Res. Dia.	Stock No.	Your Cost
1/8"	0359	\$0.24	1/8"	1058	\$0.16
3/4"	1959	.32	3/4"	0358	.16
1 1/8"	2159	.32	1 1/8"	1958	.20
			1 1/8"	2158	.20

25 WATTS					
Core Size 2" x 3/8"			Mounting Centers 2 3/4"		
Fixed Resist.			Adj. Resist.		
Res. Ohms.	Max. Mils.	Stock No.	Res. Ohms.	Max. Mils.	Stock No.
1	5,000		0360		
2	3,535		0360B		
3	2,885		0361		
5	2,235	0200A	0362		
7.5	1,825		0362B		
10	1,580	0200B	0363		
15	1,290		0364		
20	1,117		0364B		
25	1,000	0200C	0365		
50	707	0200D	0366	\$1.25	
75	577	0200E	0367		
100	500	0200F	0368		
150	408	0200G	0369		
200	353	0200H	0370		
250	316	0201	0371		
300	288		0371B		
400	250		0371C		
500	223	0202	0372		
750	182	0203	0373		
800	176	0204	0374		
1,000	158	0205	0375		
1,250	141		0375B		
1,500	129	0206	0376		
2,000	111	0207	0377		
2,250	105		0377B		
2,500	100	0208	0378	1.27	
3,000	91	0209	0379		
3,500	84	0210	0380		
4,000	79	0211	0381		
4,500	74		0381B		
5,000	70	0212	0382		
6,000	64	0213	0383		
7,000	60		0383B		
7,200	59		0383C		
7,500	57	0214	0384	1.36	
8,000	55		0384B		
9,000	52		0384C		
10,000	50	0215	0385		
12,000	42	0216	0386		
15,000	34	0217	0387	1.40	
20,000	26	0218	0388		
25,000	21	0219	0389	1.52	
40,000	14	0222			
50,000	12	0224			
100,000	7	0229			
			1.04		
			1.40		

100 WATTS					
Core Size 6 1/2" x 3/4"			Mounting Centers 7 3/4"		
Fixed Resist.			Adj. Resist.		
Res. Ohms.	Max. Mils.	Stock No.	Res. Ohms.	Max. Mils.	Stock No.
5	4,470	0600A	0956		
10	3,160	0600B	0957		
25	2,000	0601	0958		
50	1,414	0602	0959		
75	1,153	0603			
100	1,000	0604	\$1.63	0960	\$2.38
150	816	0605			
250	632	0606	0960B		
500	447	0607	0961		
750	365	0608			
1,000	316	0609	0962		
1,500	258	0610	0962B		
2,000	223	0611			
2,500	200	0612	1.67	0963	2.44
3,000	182	0613			
5,000	141	0614	0964		
7,500	115	0615	1.80	0965	2.58
10,000	100	0616			
15,000	81	0617	1.98	0966	2.74
20,000	70	0618			
25,000	53	0619	0967		
30,000	47	0620	2.16	0968	2.92
40,000	36	0621			
50,000	29	0622	0969		
60,000	24	0623	0970		
75,000	19	0624	0971	3.03	
100,000	15	0625	2.25	0972	3.18
			2.40	0973	3.31

50 WATTS					
Core Size 4" x 3/4"			Mounting Centers 4 3/4"		
Fixed Resist.			Adj. Resist.		
Res. Ohms.	Max. Mils.	Stock No.	Res. Ohms.	Max. Mils.	Stock No.
5	3,160	0400A	0560		
10	2,235	0400B	0561		
25	1,414	0400C	0562		
50	1,000	0400D	0563		
75	816	0400E	0564		
100	707	0400F	0565		
150	577	0400G	\$1.10	0566	\$1.58
200	500	0400H		0567	
250	447	0401		0568	
300	408			0568B	
400	353			0568C	
500	316	0402		0569	
750	258	0403		0570	
1,000	223	0405		0572	
1,250	200			0572B	
1,500	182	0406		0573	
2,000	158	0407		0574	
2,500	141	0408		0575	
3,000	129	0409	1.16	0576	1.64
3,500	119			0576B	
4,000	111	0410		0577	
4,500	105			0577B	
5,000	100	0411		0578	
6,000	91			0578B	
7,000	84			0578C	
7,500	81	0412		0579	1.76
8,000	79	0413	1.27	0580	
9,000	74			0580B	
10,000	70	0414		0581	
12,000	64	0415		0582	
15,000	57	0416	1.40	0583	1.89
20,000	48	0417		0584	
25,000	41	0418		0585	
30,000	36		1.56		2.04
35,000	32	0419		0586	
40,000	28			0587	
50,000	23	0420	1.71	0588	2.20
60,000	19			0589	
75,000	16	0421	1.96		
80,000	15			0590	2.45
100,000	12	0422	2.12	0591	2.60

200 WATTS					
Core Size 10 1/2" x 1 1/8"			Mounting Centers 11 3/4"		
Res. Ohms.	Max. Mils.	Stock No.			
5	6,320	0900A	\$3.00	1356	\$3.78
10	4,470	0900B		1357	
25	2,828	0901		1358	
50	2,000	0902		1359	
75	1,635	0903			
100	1,414	0904		1360	
150	1,153	0905	2.16		2.91
250	894	0906		1360B	
500	632	0907		1361	
750	516	0908			
1,000	447	0909		1362	
1,500	365	0910			
2,000	316	0911		1362B	
2,500	283	0912	2.20		
3,000	258	0913		1363	2.96
5,000	200	0914			
7,500	163	0915	2.36	1364	
10,000	141	0916			
15,000	115	0917	2.51	1365	3.14
20,000	100	0918		1366	3.30
25,000	89	0919		1367	
30,000	81	0920	2.60	1368	
40,000	61	0921		1369	3.36
50,000	49	0922	2.69	1370	
60,000	41	0923		1371	3.44
75,000	33	0924	2.84	1372	3.63
100,000	25	0925	3.00	1373	3.78

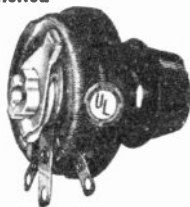
BE RIGHT WITH OHMITE

RHEOSTATS
RESISTORS
SWITCHES
CHOKES

OHMITE RHEOSTATS

All-Porcelain—Vitreous-Enamelled

The design and construction of these sturdy, compact Ohmite Rheostats insure permanently smooth, gradual, close control. The wire is wound over a porcelain core, bonded to porcelain base, and permanently locked in place by special Ohmite Vitreous Enamel. Nothing to smoke, char, shrink, or shift. Dissipates heat rapidly. Insulated shafts and bushings. Copper graphite contacts. Ratings are for "free air" use. Time-proven through long trouble-free service in countless installations the world over. Underwriters' Laboratories Listed.



MODEL "H" 25 WATTS

Diameter 1 1/8". Depth behind panel 1 3/8"

Stock No.	Ohms	Max. Mils.	Your Cost	Stock No.	Ohms	Max. Mils.	Your Cost
0140	1	5,000	\$4.68	0152	125	445	\$4.16 each
0141	2	3,540		0153	175	375	
0142	3	2,880		0154	250	316	
0143	6	2,040		0155	350	267	
0144	8	1,770	4.16 each	0156	500	222	4.68
0145	10	1,580		0157	750	182	
0146	15	1,290		0158	1,000	155	
0147	25	1,000		0159	1,500	129	
0148	35	845	4.95	0160	2,500	100	
0149	50	707		0161	3,500	84	
0150	75	575		0162	5,000	70	
0151	100	500					

MODEL "J" 50 WATT

Diameter 2 1/8". Depth behind panel 1 3/8"

Stock No.	Ohms	Max. Mils.	Your Cost	Stock No.	Ohms	Max. Mils.	Your Cost
0308	0.5	10,000	\$5.20	0321	150	575	\$4.68
0309	1	7,070		0322	225	470	
0310	2	5,000		0323	300	408	
0311	4	3,530		0324	500	316	
0312	6	2,880	4.68	0325	800	250	4.95
0313	8	2,500		0326	1,000	224	
0314	12	2,040		0327	1,600	176	
0315	16	1,760		0328	2,500	141	
0316	22	1,500	5.20	0329	3,500	119	5.20
0317	35	1,190		0330	5,000	100	
0318	50	1,000		0331	8,000	79	
0319	80	790		0332	10,000	70	
0320	125	630					

MODEL "K" 100 WATT

Diameter 3 1/8". Depth behind panel 1 3/4"

Stock No.	Ohms	Max. Mils.	Your Cost	Stock No.	Ohms	Max. Mils.	Your Cost
0440	0.5	14,100	\$7.80	0452	200	707	\$7.28
0441	1	10,000		0453	300	575	
0442	2	7,070		0454	400	500	
0443	3	5,750		0455	500	447	
0444	5	4,470	7.28	0456	750	365	7.80
0445	7.5	3,650		0457	1,000	316	
0446	10	3,160		0458	1,500	258	
0447	16	2,500		0459	2,000	224	
0448	25	2,000	8.32	0460	2,500	200	8.32
0449	50	1,410		0461	5,000	141	
0450	75	1,150		0462	7,500	115	
0451	100	1,000		0463	10,000	100	

DUMMY ANTENNA RESISTORS



Convenient, compact, constant resistance, high wattage resistors for high frequencies. They provide a simple accurate means of measuring RF power in all stages of a transmitter, for tuning-up to maximum efficiency.

D-100—100 watt, 73 and 600 ohms. 3 3/8" diam. 4 3/8" high. Your Cost..... **\$6.76**
D-250—250 watt, 73 and 600 ohms. 2 1/2" diam. 9-1 1/16" high. Your Cost..... **13.52**

SPECIAL LOW INDUSTRIAL PRICES

There are special low prices on purchases of all Ohmite products by industrial firms. These prices apply to quantity purchases only. Please send us your inquiries for quotation.

MODEL "L" 150 WATT

Diameter 4". Depth behind panel 2"

Stock No.	Ohms	Max. Mils.	Your Cost	Stock No.	Ohms	Max. Mils.	Your Cost
0524	0.5	17,300	\$9.88	0537	150	1,000	\$9.36
0525	1	12,300		0538	200	865	
0526	2	8,650		0539	250	775	
0527	3	7,070		0540	350	655	
0528	5	5,480	9.36	0541	500	548	\$ 9.88
0529	7.5	4,470		0542	750	447	
0530	10	3,880		0543	1,250	346	
0531	15	3,163		0544	1,800	288	10.40
0532	25	2,450	9.36	0545	2,250	259	
0533	35	2,070		0546	3,000	224	
0534	50	1,735		0547	4,500	182	
0535	75	1,415	11.44	0548	7,500	141	12.48
0536	100	1,225		0549	10,000	122	

MODEL "N" 300 WATT

Diameter 6". Depth behind panel 2 3/8"

Stock No.	Ohms	Max. Mils.	Your Cost	Stock No.	Ohms	Max. Mils.	Your Cost
0650	1	17,320	\$14.04	0661	100	1,730	\$14.04
0651	2	12,240		0662	150	1,410	
0652	3	10,000		0663	200	1,220	
0653	4	8,660		0664	300	1,000	
0654	5	7,750	\$14.04	0665	400	866	\$14.04
0655	7.5	6,320		0666	700	655	
0656	10	5,480		0667	900	578	
0657	15	4,470		0668	1,200	500	
0658	25	3,460	\$14.04	0669	1,500	447	\$14.04
0659	50	2,450		0670	1,750	414	
0660	75	2,000		0671	2,500	346	

MODEL "R" 500 WATT

Diameter 8". Depth behind panel 2 1/2"

Stock No.	Ohms	Max. Mils.	Your Cost	Stock No.	Ohms	Max. Mils.	Your Cost
0849	1.0	22,300	\$20.28	0872	50	3,160	\$20.28
0850	1.5	18,200		0861	80	2,520	
0851	2	15,800		0862	125	2,000	
0852	2.5	14,100		0863	175	1,690	
0853	3	12,900	\$20.28	0864	250	1,410	\$20.28
0854	4	11,200		0865	325	1,240	
0855	5	10,000		0866	500	1,000	
0856	7.5	7,900		0867	750	817	
0857	12.5	6,300	\$20.28	0868	1,000	707	\$20.28
0858	16	5,600		0869	1,500	577	
0859	25	4,470		0870	2,000	500	
0860	40	3,540		0871	2,500	447	

DIRECTION INDICATOR POTENTIOMETER—MODEL RB-2



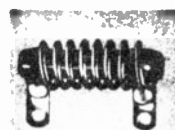
Used in a simple 6 volt potentiometer circuit as a transmitting element, to indicate, remotely, the position of a rotary beam antenna, or other device. The indicating meter can be any ordinary 0-1 M.A., 0-1.5 M.A. or 0-2 M.A. direct current milliammeter (with marked scale). 2-1/4" in diameter and extends 1 1/2" behind the mounting surface. Single hole mounted by 3/4-32 threaded bushing. 360° rotation.

No. RB-2—Your Cost..... **\$6.51**

OTHER OHMITE RHEOSTATS

Ohmite Rheostats are also available in Model G, 75 Watt; Model P, 225 Watt; Model T, 750 Watt; and Model U, 1,000 Watt units, in many resistance values. Special Rheostats with tapered windings, etc., can be supplied; also Special Rheostats for Model Train Control. Cages and other accessories also available.

PARASITIC SUPPRESSOR



Designed to prevent unwanted ultra-high-frequency parasitic oscillations which occur in the plate and grid leads of push-pull and parallel tube circuits.

Non-inductive 50 ohm resistor in parallel with a choke of 3 microhenries inductance and .003 ohm DC resistance. 1 3/4" long, 1/8" diameter.

Model P-300—Your Cost..... **\$1.56**

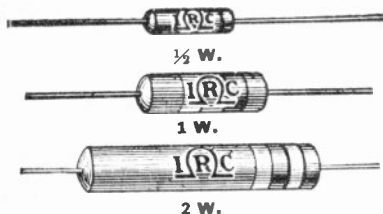
REPLACEMENT PART HEADQUARTERS FOR DEALERS AND SERVICEMEN



INSULATED RESISTORS

Preferred for Performance

RESISTORS TYPE BT



AVAILABLE FROM STOCK IN THE FOLLOWING STANDARD RMA VALUES 10% TOLERANCE

Ohms	Ohms	Ohms	Ohms	Meg-ohms	Meg-ohms
0.47	10	220	4,700	0.1	2.2
0.56	12	270	5,600	0.12	2.7
0.68	15	330	6,800	0.15	3.3
0.82	18	390	8,200	0.18	3.9
1.0	22	470	10,000	0.22	4.7
1.2	27	560	12,000	0.27	5.6
1.5	33	680	15,000	0.33	6.8
1.8	39	820	18,000	0.39	8.2
2.2	47	1,000	22,000	0.47	10.0
2.7	56	1,200	27,000	0.56	12.0
3.3	68	1,500	33,000	0.68	15.0
3.9	82	1,800	39,000	0.82	18.0
4.7	100	2,200	47,000	1.0	22.0
5.6	120	2,700	56,000	1.2	
6.8	150	3,300	68,000	1.5	
8.2	180	3,900	82,000	1.8	

TYPE BT. Resistors, in 10% tolerance, are carried in stock in the RMA ranges listed below. Using 10% tolerance BT's, these 93 ranges give complete coverage of all values with the smallest resistor stock. Standardization of your stock on these values is recommended for economical, complete coverage, faster turnover... more profit for you.

Type	Size		Resistance Range	Maximum Volts	Your Cost
	Lgt.	Diam.			
1/2 watt	1 3/8"	1/8"	10 ohms to 22 meg.	350	\$0.10
1 watt	2 3/8"	1/4"	10 ohms to 22 meg.	500	\$0.12
2 watt	1 3/4"	2 1/6"	10 ohms to 22 meg.	500	\$0.20

POWER WIRE WOUND

After more than twenty years of use in all parts of the world and in all types of equipment, IRC Cement Coated Resistors have clearly demonstrated their superiority.

I.R.C. ADJUSTABLE TYPES 10 WATTS—Type ABA—1 3/4" x 1/2"

Ohm	Your Cost
1 to 10,000	\$0.90

25 WATTS—Type DHA—2 1/2" x 1 1/4"



1 to 5,000	\$1.17
6,000 to 15,000	1.26
20,000 to 25,000	1.41

50 WATTS—Type EPA—4 1/2" x 3/4"

5 to 5,000	\$1.50
6,000 to 25,000	1.68
30,000 to 50,000	2.84
60,000 to 75,000	2.34

80 WATTS—Type ESA—6 1/2" x 1 1/8"

5 to 5,000	\$1.74
6,000 to 25,000	1.95
30,000 to 50,000	2.25
60,000 to 0.1 Megohm	2.55

100 WATTS—Type HAA—6 1/2" x 1 1/8"

100 to 5,000	\$2.25
6,000 to 25,000	2.49
30,000 to 50,000	2.76
60,000 to 0.1 Megohm	3.00

200 WATTS—Type HOA—10 1/2" x 1 1/8"

100 to 10,000	\$2.28
15,000 to 0.1 Megohm	3.30

I.R.C. FIXED TYPES 10 WATTS—Type AB—1 3/4" x 1/2"

Ohms	Your Cost
1 to 10,000	\$0.45
11,000 to 50,000	.60

20 WATTS—Type DG—2" x 1 1/8"

1 to 15,000	\$0.69
20,000 to 50,000	0.84
60,000 to 0.1 Megohm	1.08

50 WATTS—Type EP—4 1/2" x 3/4"



5 to 5,000	\$1.17
6,000 to 25,000	1.38
30,000 to 100,000	1.80

80 WATTS—Type ES—6 1/2" x 1 1/8"

5 to 5,000	\$1.32
6,000 to 25,000	1.53
30,000 to 50,000	1.80
60,000 to 75,000	1.95
0.1 Megohm	2.25

100 WATTS—Type HA—6 1/2" x 1 1/8"

25 to 5,000	\$1.62
7,500 to 25,000	1.92
30,000 to 50,000	2.16
60,000 to 75,000	2.25
0.1 Megohm	2.40

200 WATTS—Type HO—10 1/2" x 1 1/8"

25 to 10,000	\$2.10
15,000 to 0.1 Megohm	2.55

FREE! ALL METAL RESIST-O-CABINET



Given FREE with any of the following resistor kits. Steel, four drawer (7 compartments in each) cabinets 11 x 5 1/2".

Kit No. 1

20 type BTS half watt resistors, 44 type BTA one watt resistors, 10 type AB 10 watt fixed resistors, 4 type ABA 10 watt adjustable resistors. Cabinet FREE.
Your Cost..... \$12.00

Kit No. 2

This kit includes 12-BW-1/2 watt, 103-BTS 1/2 watt plus free cabinet.
Your Cost..... \$12.00

Kit No. 3

Includes 100 BTA one watt resistors plus free cabinet.
Your Cost..... \$12.00



2 mounting brackets and 1 X band is packed with all resistors from 25 watts and up.

Resistor	Band	Your Cost
DHA.....	X2.....	\$0.20
EPA.....	X3.....	0.20
ESA.....	X3.....	0.20
HAA.....	X4.....	0.25
HOA.....	X4.....	0.25
ABA.....	"A".....	0.10

PRECISION WIRE WOUND RESISTORS



Types WW-4
1/2" x 1"
WW-5
3/4" x 1 1/2"



Types WW-1
1/2" x 2 1/4"
WW-2
3/8" x 2 1/8"

IRC Precision Wire Wound Resistors are made in 14 standard inductive and non-inductive types, in shapes, sizes and ranges for exacting applications such as for use in meter multipliers, shunts, increasing the range of single meters gain controls, faders, pads, etc. Consult general IRC Catalogue or detailed listing. 1% accuracy is standard. Closer tolerances available at slightly higher prices as follows: For 1/2 tolerance add 10%; for 1/4% accuracy add 15%; and for 1/10 of 1%, add 25% to list prices.

Type WW-4

Ohms	Your Cost	Megohm	Your Cost
0.1 to 500	\$0.84	0.1	\$1.83
1,000 to 2,500	0.87	0.125	2.10
4,000 to 10,000	0.99	0.15 to 0.2	2.31
12,500 and 15,000	1.08	0.225 and 0.25	2.55
20,000 to 50,000	1.32	0.3	2.79
60,000 and 75,000	1.56	0.4	2.94
		0.5	3.33

Type WW-1

0.1 to 2,000	\$1.14	0.1 meg.	\$2.10
2,500 to 10,000	1.23	0.125	2.34
12,500 and 15,000	1.32	0.15 to 0.2	2.58
20,000 to 50,000	1.56	0.225 and 0.25	2.82
60,000 and 75,000	1.86	0.3 and 0.4	3.09
		0.5	4.17

Type WW-2 and WW-5

Meg.	Your Cost	Meg.	Your Cost
0.6	\$4.14	1.0	\$5.13
0.75	4.38	1.5	7.32
0.9	4.65	2.0	9.75
		2.5	12.18

MONTREAL — CANADIAN ELECTRICAL SUPPLY CO. LTD. — TORONTO

AUDIO INPUT REPLACEMENTS

No.	Type	Turns Ratio	Mounting Type	Your Cost
51	Midget P.P.	1-2 C.T	—	\$0.99
61	—Input.....	1-1	For G.E. & RCA sets	1.07
111	—Input.....	1-3	—	1.38
112	Plate to P.P. Grid	1-3½	Vertical	1.55
113	Plate to P.P. Grid	1-3½	Horizontal	1.55
115	Class B Driver....	—	—	1.49
116	Plate to P.P. Grid	1-2	Vertical	2.00

130 SERIES

All with "A" Mounting, New Midget Series for portable equipment, small sets, talk-back systems, etc., $\frac{5}{8}$ " x $\frac{3}{4}$ " core. Width $1\frac{1}{2}$ ", height $1\frac{1}{2}$ ".

No.	Description	Your Cost
130	—4 ohms to Grid.....	\$1.26
131	—Single or DB Mic or Line to Grid.....	1.26
132	—500 ohm Line ct to Grid.....	1.26
134	—Plate to PP Grids, ratio 1:2.....	1.10
135	—Class B Input for 19, 1J6, 1C6, etc.....	1.10
137B	—Output 7000 ohms to 2 and 4 ohms.....	1.16
138	—Output 7000 ohms to 6 ohms.....	1.10
139	—Output 7000 ohms to 500 ohms ct.....	1.26
119B	—3 watt, Pri. 500, 1000, 1500; Sec. 3:2.....	1.32
119C	—5 watt, Pri. 500, 1000, 1500; Sec. 3:24.....	1.53

SINGLE OUTPUTS

No.	Primary Impedance	Tubes	Your Cost
53	2500	7A5, 6A3, 25L6, 35L6, 50L6.....	\$.99
57	7000	6F6, 42, 6K6, 2A5, 7B5.....	.99
63	2500	7A5, 6A3, 25L6, 35L6, 50L6.....	1.07
67	7000	6F6, 42, 6K6, 2A5, 7B5.....	1.10
69	18000	1F4, 1A5.....	1.17
74	4500	45, 71A, 6V6, 7C5, 25A6.....	1.31
77	7000	6F6, 42, 6K6, 2A5, 7B5.....	1.38
121C	1500 to 5000 Plate Loads	.....	1.38
123C	5000 to 16000 Plate Loads	.....	1.38

PUSH PULL OUTPUTS

No.	Primary Impedance	Tubes	Your Cost
58	14000 ct	P.P. 6F6, 7B5, 42, 47, 6K6.....	\$0.99
68	14000 ct	P.P. 6F6, 7B5, 42, 47, 6K6.....	1.17
78	8000 ct	6N7, 6A6, P.P. 45, 6A4.....	1.38
75	10000 ct	6N7, 6A6, 19, 1J6.....	1.38
80	14000 ct	P.P. 6F6, 7B5, 42, 47, 6K6.....	1.38
122C	3000 to 8000 ct Loads	.....	1.38
124C	8000 to 24000 ct Loads	.....	1.38
126	8000 ct	P.P. 6L6, 6V6, etc.....	1.91

NEW SHIELDED INPUTS

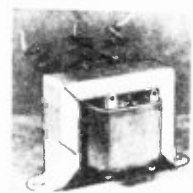
ALLOY CORE — DRAWN CASE

Low hum pickup frequency range of 70—11,000 cps + 1 db. Good step-up ratio—60,000 ohm secondary—Insulated Leads.

Type	Your Cost
140A 4 ohms or 3.2 ohms to Single Grid	\$2.07
140B 30 ohms to Single Grid	2.07
140C 50 ohms to Single Grid	2.07



"A" Mounting



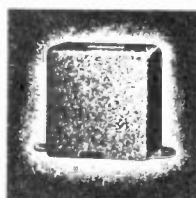
"B" Mounting



"C" Mounting



"D" Mounting



"E" Mounting



"F" Mounting

300 SERIES AUDIOS

A popular type of audios. With terminal lugs on stamped bakelite plate. Chassis or base mounting. Good response from 100 to 6000 cps. Type E mounting centres $2\frac{3}{4}$ ". Dimensions $1\frac{1}{2}$ " x $2\frac{3}{8}$ " x $2\frac{3}{8}$ ".

SERIES 300—Any Type—Your Cost..... \$2.08

No.	Use	Pri. Imp.
306	—Mic to Mixer	50/200
307	—Line to Line	500/125
308	—Mic to Line	50/200
310	—Mic to Grid	50/200
312	—Mic to PP Grids	50/200
322	—Line to Mixer	500 ct
324	—Line to Grid	500 ct
326	—Line to PP Grid	500 ct
329	—Transceiver Input SB Mic and Plate S. Grid	10000
330	—Plate to Grid	10000
331	—Plate to PP Grid	10000
332	—Plate to PP Grid	20000
333	—PP Plate to PP Grid	20000 ct
334	—Plate to PP Grid, Class B	20000
335	—PP Plate to PP Grid	20000 ct
337	—PP Plate to PP Grid	20000 ct
340	—Plate to Line	15000
342	—PP Plate to Line	20000 ct
344	—Single Triode to Line	4000
346	—PP Triode to Line	8000 ct
347	—Single Pentode to Line	7000
348	—PP Pentode to Line	14000 ct
351	—2000 Plate to V.C.	2000
353	—5000 Plate to V.C.	5000
354	—Pentode to V.C.	7000
365	—PP Plates to V.C.	5000 ct
367	—PP Plates to V.C.	8000 ct
368	—PP Plates to V.C.	10000 ct
369	—PP Plates to V.C.	14000 ct
372	—Plate Impedance	700 henrys ct
374	—Choke or Reactor	10 henrys
375	—Choke or Reactor	25 henrys
382	—Line to V.C.	500/1000
383	—Line to V.C.	1500/2000/3000

400 SERIES AUDIOS

HEAVY DUTY TYPE

A complete range of audios. Sealed in new formed steel case to give permanent protection against humidity. Design similar to 300 Series, with marked terminal lugs for chassis or base mounting. Excellent response from 80 to 7000 cps. Type E mounting centres $3\frac{1}{2}$ ". Dimensions $2\frac{3}{8}$ " x $3\frac{3}{8}$ " x $3\frac{1}{8}$ ".

Series 400—Any Type—Your Cost..... \$4.09

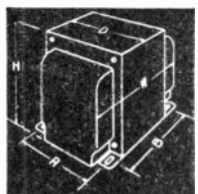
No.	Use	Pri. Imp.
410	—Mic to Grid	50/200
412	—Mic to PP Grids	50/200
422	—Line to Mixer	500 ct
424	—Line to Grid	500 ct
426	—Line to PP Grids	500 ct
427	—Line to PP Power Tubes	500 ct
430	—Plate to Grid	20000
432	—Plate to PP Grids	20000
434	—PP Plates to PP Grids	7500/30000
435	—PP Plates to PP Grids	10000/40000
436	—Plate to PP Grids	20000
437	—PP Plates to PP Grids	40000 ct
438	—Plate to PP Grids	20000
439	—PP Plates to PP Grids	40000 ct
440	—Plate to Line	20000
442	—PP Plates to Line	7500/30000
444	—Plate to Line	4000
445	—Plate to Line	7000
446	—PP Plates to Line	8000 ct
447	—Plate to PP Grids	6000
448	—Plate to PP Grids	6000
449	—PP Plates to PP Grids	10000 ct
453	—Single Plate to V.C.	2500
454	—Single Plate to V.C.	4000
457	—Single Plate to V.C.	7000
463	—PP Plates to V.C.	3000 ct
465	—PP Plates to V.C.	5000 ct
467	—PP Plates to V.C.	8000 ct
468	—PP Plates to V.C.	10000 ct
469	—PP Plates to V.C.	14000 ct
470	—Plate Impedance	175/700 H, 10/5 ma
472	—Plate Impedance	25/100 H, 70/35 ma
477	—Filter Choke	25 H, 75 ma
478	—Filter Choke	10 H, 125 ma
481	—M. Line to M.V.C.	50, 125, 200, 250, 500
482	—Line to V.C.	500/1000
483	—Line to V.C.	1500/2000/3000

MEET YOUR "AMATEUR" FRIENDS AT C.E.S.

POWER AND LINE TRANSFORMERS

HAMMOND
CANADA

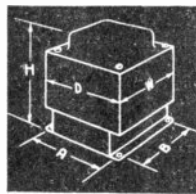
POWER TRANSFORMERS



"X" Mounting

For Amplifier and other Special Equipment as well as for general Replacement Work, High grade 26 ga. silicon steel core, accurately wound carefully impregnated coils, rigid testing, etc. All primaries are wound for 115 volts A.C. Insulated leads are 11" long. Color code card is included with each transformer.

25 cycle transformers are slightly larger in size.



"Z" Mounting

When ordering specify type of mounting

2.5 VOLTS

No.	Pri. V.A.	Sec. Volts	D.C. MA.	Filaments	Size of 60 Cycle D. H. W.	Your Cost	
						60 Cy.	25 Cy.
238	63	280-280	50	5v 2A, 2.5v 8A ct.	2 1/2 x 3 1/2 x 3 1/2"	\$3.84	\$5.25
240	75	300-300	70	5v 2A, 2.5v 8.75A ct.	3 1/2 x 3 1/2 x 3 1/2"	4.15	5.75
244	90	330-330	80	5v 2A, 2.5v 12.25A ct.	3 1/2 x 3 1/2 x 3 1/2"	4.55	6.28
245	90	330-330	80	5v 2A, 2.5v 10A ct, 2.5v 1.75A ct.	3 1/2 x 3 1/2 x 3 1/2"	4.55	6.28
246	105	340-340	100	5v 2A, 2.5v 10.5A ct, 2.5v 3.5A ct.	3 1/2 x 3 1/2 x 4 1/4"	5.74	7.08
250	120	375-375	100	5v 3A, 2.5v 10.5A ct, 2.5v 3.5A ct.	3 1/2 x 4 1/2 x 3 1/2"	6.08	7.60
260	150	400-400	135	5v 3A ct, 2.5v 14A ct, 2.5v 5A ct.	3 1/2 x 4 1/2 x 4 1/4"	6.87	8.55

6.3 VOLTS

258	25	200-200	35	6.3v 2A	2 1/2 x 3 x 2 1/2"	\$ 2.75	\$ 3.67
259	40	300	40	6.3v 2A (1v Rectifier)	2 1/2 x 3 x 2 1/2"	2.95	3.83
270	42	240-240	40	5v 2A, 6.3v 1.5A	2 1/2 x 3 x 2 1/2"	2.95	3.83
270b	51	275-275	40	5v 2A, 6.3v 2A	2 1/2 x 3 x 2 1/2"	3.64	4.54
271	55	280-280	50	5v 2A, 6.3v 2A	2 7/8 x 3 1/2 x 3 1/4"	3.87	5.23
272	70	310-310	70	5v 2A, 6.3v 2.4A	3 1/8 x 3 3/4 x 3 1/2"	4.18	5.67
273	95	350-350	110	5v 2A, 6.3v 4A	3 1/8 x 3 3/4 x 4 1/4"	5.45	6.92
274	115	375-375	110	5v 3A, 6.3v 5A	3 1/8 x 4 1/2 x 3 1/4"	5.87	7.32
275	135	400-400	135	5v 3A ct, 6.3v 5A ct.	3 1/8 x 4 1/2 x 4 1/4"	6.64	8.49
276	120	300-300	150	5v 3A ct, 6.3v 5A ct.	3 1/8 x 4 1/2 x 3 1/4"	6.02	7.32
277	115	300 0 300	200	5v 3A ct, 5v 2A, 6.3v 6A ct.	3 3/4 x 5 1/2 x 4 1/2"	11.28	16.38
278	185	400-400	200	5v 3A, 6.3v 6A ct.	3 3/4 x 4 1/2 x 4 1/2"	6.92	10.05

A.C. - D.C. VIBRATOR POWER TRANSFORMERS

115v, A.C. or 6v D.C.

Each has four separate windings as follows: (a) 115 volts 50 or 60 cycle primary; (b) centre-tapped primary for vibrator; (c) centre-tapped high-voltage secondary; (d) centre-tapped filament winding.

Type 234—Sec. 300-0-300 v. 75 ma. D.C., Fil. 6.3 v. 4 a. ct. Dim., 3 1/2 x 4 x 3 3/4". Your Cost.....\$5.98

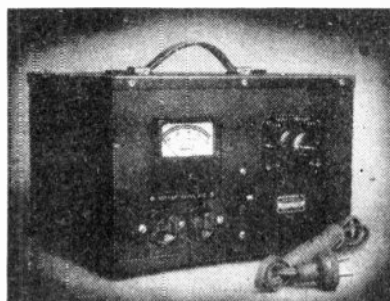
Type 236—Sec. 400-0-400 v. 150 ma. D.C., Fil. 6.3 v. 6 a. ct. Dim., 3 3/4 x 4 7/8 x 4 1/2". Your Cost.....\$8.65

AUTO TRANSFORMER

No. 219—Input 6.3 v., 25 or 60 cy. output tap at 2.5 v. 2.1 a. Heavy terminals or mounting on socket or H.V. transformer.

Your Cost.....\$1.29

LINE VOLTAGE ADJUSTING UNITS



Ideal where all types of sound equipment, movie projectors or radio equipment has to be operated from low or high voltage power lines. Three sizes are available, each mounted in a ventilated black wrinkle-finished steel case. 7 1/2 x 11 x 7 1/4". An accurate and dependable 0-150 voltmeter, six point heavy duty tap switch, double outlet receptacle, leather carrying handle and 7 ft. heavy duty cord. Input voltages of 85, 95, 105, 110, 115 and 125 can be accommodated for a normal output of 110 or 115 volts.

Write for Catalogue & Prices.

CATHODE-RAY TRANSFORMERS

No.	H.V. Sec.	Filaments for C.R.T.	Your Cost	
			60 Cy.	25 Cy.
214	800v. R.M.S.	2.5v. 1.75A for 2x2 rectifier 6.3v-0.6A.....	\$ 6.54	\$ 9.70
215	1500v. R.M.S.	2.5v. 1.75A. Rectifier Fil. 6.3v 0.6A.....	8.30	12.40
216	3000v. R.M.S.	2.5v 1.75A Rec. Fil. 6.3v 0.6A	12.58	16.20
218	7000v. R.M.S.	2.5 5A Rec. Fil 6.3v 0.6A	24.30	

163B TUBE CHECKER TRANSFORMER

Pri. tapped 100, 115 volts, Sec. at 1.4, 2, 2.5, 5, 6.3, 7.5, 12.6, 25, 30, 35, 50, 70 and 117 volts. 60 cycle, 3x3x2 1/2" high. Your Cost.....\$4.64
25 cycle, 2 1/2 x 3 1/2 x 3" high. Your Cost.....\$5.88

6 VOLT VIBRATOR AUTO-B TRANSFORMERS

No.	D.C. Volts	Output M.A.	Size	Your Cost
164B	200	45	3 cts 2 1/2 x 2 1/2 x 3	\$2.03
164C	250	50	2 1/2 x 2 1/2 x 3 1/2	2.72
164D	300	70	2 3/4 x 2 1/4 x 3 1/2	3.64
164E	325	100	2 1/2 x 2 1/4 x 3 3/4	5.09
164F	400	150	2 1/2 x 3 1/4 x 3 3/4	6.22

LINE VOLTAGE CHANGING AUTO TRANSFORMERS

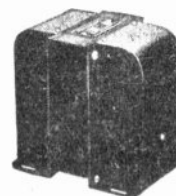
Accurate voltage adjustment with good regulation is provided. "Knock-outs" enable easy installation to be made in special equipment or to "BX".

LINE VOLTAGE ADJUSTING TYPES—Taps at 85, 95, 105, 110, 115, 125 volts. Allow output to be kept within 2 1/2 volts of 115.

No.	Output	Your Cost	
		60 c.	25 c.
168B	200 Volt Amps.....	\$ 3.78	\$ 4.66
168D	500 " " " " " " " "	5.15	7.00
168F	1000 " " " " " " " "	11.79	17.80
168H	1500 " " " " " " " "	15.45	26.30

230 to 115 VOLTAGE-CHANGING TYPES—Input for 220 to 250 volts A.C. Output tap gives half input voltage or 110 to 125 volts.

No.	Output	Your Cost	
		60 c.	25 c.
170A	100 volt Amps.....	\$ 3.72	\$ 5.12
170B	200 " " " " " " " "	4.78	6.68
170C	300 " " " " " " " "	6.45	8.52
170D	500 " " " " " " " "	8.52	15.00
170F	1000 " " " " " " " "	16.85	29.60



"CONTROL-CIRCUIT" DRY-TYPE INDUSTRIAL TRANSFORMERS
550/110, 550/24,
220/110, 220/24,
110/24, 110/12

A complete range of Transformers with knock-outs for BX or conduit, enclosed solderless terminals, mica insulation, etc. Ideal for air-conditioning and heating systems, refrigeration equipment, low voltage lighting, machine control systems, switchboards, etc. Specials can be supplied promptly for any voltage on primary or secondary up to maximum of 600 volts. Ask for special bulletin.

FOR FASTER SERVICE ORDER FROM OUR NEAREST BRANCH

SMALL FILAMENT TRANSFORMERS

165 FILAMENT TRANSFORMER

With two 2.5 volt, 3 amp. windings, will provide 2.5 volts at 6 amps. or 5 volts at 3 amps. ct., or two 2.5 volt, 3 amp. outputs. Pri. 115 volts
60 cycle—2½ x 3 x 3½ lbs. Your Cost.....\$2.33
25 cycle—2½ x 3 x 3½ lbs. Your Cost.....2.82

166 FILAMENT TRANSFORMER

Two 2.5 volt, 6 amp. windings for 2.5 volt, 12 amps, or 5 volts 6 amps. ct. Pri. 115 volts, X mounting.
60 cycle—2½ x 3 x 3½ lbs. Your Cost.....\$2.72
25 cycle—2½ x 3 x 3½ lbs. Your Cost.....3.34

267 FILAMENT TRANSFORMER

50 watts. For use with type 265 Plate Transformer, X mounting, 5 volts. 3 amps. ct. 6.3 volts, 6 amps. ct.
60 cycle—3½ x 3½ x 4½ lbs. Your Cost.....\$3.43
25 cycle—3½ x 3½ x 4½ lbs. Your Cost.....4.64

No.	Volts	Amps.	Your Cost	
			60 Cycle	25 Cycle
167B.....	6.3	0.3	\$0.99	\$1.16
167C.....	6.3	1.0	1.22	1.69
167D.....	6.3	2.0	1.67	2.33
167E.....	6.3	4.0	2.33	2.72
167K.....	12.6	0.3 ct.	1.16	1.67
167L.....	12.6	1.0 ct.	1.67	2.28
167Q.....	2.5	3.0 ct.	4.40	5.89



Type "X" Mounting



Type "R" Mounting



"T" Mounting

UNIVERSAL FILAMENT TRANSFORMER

Primary is tapped to give 5.0 volts ct. 6.5 amps., or 6.3 volts ct. 6.5 amps., or 7.5 volts ct. 6.5 amps.

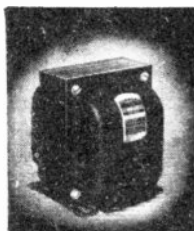
No.	Primary	Sec. Ins.	Your Cost	
			60 Cycle	25 Cycle
1109R.....	115	3000	\$4.43	\$5.85
1109X.....	115	3000	3.87	5.15

HEAVY DUTY FILAMENT TRANSFORMERS

Hammond Filament Transformers are well known for their rugged, compact construction, their accurate voltage output and also the provision for low line voltage. Primary Taps 110-115. Available in R Mounting at a slightly higher price.

No.	Sec. Volts	Amps.	Sec. Ins. Test	Your Cost	
				60 Cy.	25 Cy.
1120X.....	2.5	3	2000	\$2.63	\$3.07
1122X.....	2.5	3	2000	3.07	3.72
1123X.....	2.5	6	2000	3.67	5.13
1124X.....	2.5	6	2000	5.53	7.62
1125X.....	5. ct.	10	2500	5.53	7.62
1128X.....	5. ct.	13	3000	6.08	8.78
1129X.....	5. ct.	13	3000	2.56	3.43
1130X.....	6.3 ct.	5	2000	4.48	6.45
1131X.....	6.3 ct.	10	3000	2.56	3.43
1132X.....	7.5 ct.	4	2500	3.67	5.10
1133X.....	7.5 ct.	6.5	2500	5.53	7.60
1134X.....	7.5 ct.	6.5	2500	5.00	6.87
1136X.....	5.0 ct.	3	2500	5.00	6.87
1140X.....	6.3 ct.	5	2500	3.67	5.03
1141X.....	6.3 ct.	5	3000	4.33	5.53
1142X.....	10 ct.	8	3000	4.63	6.38
1143X.....	10 ct.	8	3000	7.00	9.24
1144X.....	10 ct.	8	3000	5.22	7.25
1150X.....	10 ct.	10	3000	3.73	5.02
1152X.....	11 ct.	5	3000	5.75	7.66
1153X.....	11 ct.	10	3000	7.43	9.65
1155X.....	11 ct.	15	3000	5.23	6.89
1156X.....	14 ct.	6	3000		

Hammond catalogue sent on request. Other higher voltages, Rectifier Filament Transformers, up to 50,000 volts, can be built to order.



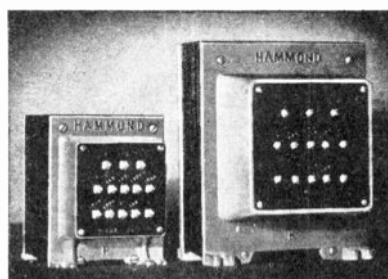
STANDARD PLATE TRANSFORMERS

Ideal for transmitters, amplifiers and electronic equipment. Housed in drawn steel cases, attractively finished in black wrinkle. Accurately wound coils with hi-seal vacuum impregnation assures maximum reliability. Insulated leads 10" long are provided and all ratings are for choke input.

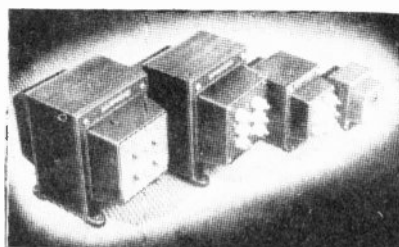
No.	Sec. Volts	DC Volts	DC Ma.	Pri. Va.	Your Cost	
					60 Cy.	25 Cy.
265	510-0-510	115	135	70	\$ 5.23	\$ 8.57
710	375-0-375	300	300	125	5.08	6.98
715	510-0-510	400	300	160	6.13	8.78
717	510-0-510	400	500	300	11.21	16.32
720	625-0-625	500	300	190	17.89	10.50
722	625-0-625	500	500	375	13.05	18.40
724	750-0-750	625	200	200	9.19	16.35
726	890-0-890	750	175	205	8.78	11.28
728	1000-0-1000	850	150	205	11.23	18.79
732	1250-0-1250	1000	200	320	13.10	21.75
733	1250-0-1250	1000	300	475	17.12	26.51

UNIVERSAL PLATE TRANSFORMERS

Ideally suited for the amateur, experimenter, laboratories, etc., covering widely different voltage and current requirements. The 757's are rated at 400 VA. and the 767's at 700 VA. These outputs are DC. after 12-300 Input Choke using 866's. Heavy-duty construction.



Type 757				Type 767			
1000 volts	250 ma. DC.	1500 volts	250 ma. DC.	1200 "	250 ma. DC.		
800 "	250 ma. DC.	1200 "	250 ma. DC.	1125 "	250 ma. DC.		
750 "	250 ma. DC.	900 "	250 ma. DC.	900 "	250 ma. DC.		
600 "	250 ma. DC.	750 "	500 ma. DC.	675 "	250 ma. DC.		
500 "	500 ma. DC.	500 "	500 ma. DC.	500 "	500 ma. DC.		
450 "	250 ma. DC.	450 "	200 ma. and 750 volts	450 "	200 ma. and 750 volts		
375 "	500 ma. DC.	335 "	300 ma. DC.	335 "	300 ma. DC.		
300 "	200 ma. and 375 volts		200 ma. and 375 volts		200 ma. and 375 volts		
225 "	300 ma. DC.		300 ma. DC.		300 ma. DC.		
Your Cost	60 Cy.	25 Cy.	Your Cost	60 Cy.	25 Cy.		
	\$21.30	\$26.35		\$26.60	\$33.40		



HEAVY DUTY PLATE TRANSFORMERS

Dependable—taps, evenly spaced, for wide range of voltages—two-pie construction for exact voltage, resistance and capacity balance—ceramic insulated high voltage terminals—good regulation—high efficiency.

HAMMOND CATALOGUE WITH COMPLETE INFORMATION SENT ON REQUEST

No.	Max. Volts per side	Max. DC Ma.	Max. Pri. Amps.	Your Cost	
				60 Cy.	25 Cy.
762	880	200	2	\$11.25	\$16.90
763	880	300	2.8	16.15	21.90
764	1180	200	2.6	15.15	22.80
766	1180	300	3.2	20.40	28.35
774	1740	200	3.6	20.40	29.20
776	1740	300	5.7	28.35	37.65
777	1740	500	8.7	36.90	50.70
779	1740	1000	16	58.40	92.50
783	2320	300	7.7	35.60	46.25
784	2320	500	12	45.90	64.90
787	2880	300	8.0	38.40	56.80
788	2880	500	15	50.75	82.25
793	3450	300	10.8	50.50	67.25
795	3450	500	18	59.90	99.50

MAKE C.E.S. YOUR P.A. HEADQUARTERS

PRECISION AUDIO TRANSFORMERS

HAMMOND
CANADA

900 SERIES AUDIOS PRECISION SOUND TRANSFORMERS



- **ALLOY CORE**
- **HUMLESS CONSTRUCTION**
- **WIDE RANGE RESPONSE**
- **PRECISION COILS** (inputs have electrostatic shields)
- **HUMIDITY PROOF**
- **MULTI-TAP CONNECTIONS**
- **LOW INSERTION LOSS**
- **COMPLETE RANGE of TYPES**
- **REVERSIBLE MOUNTINGS**

Frequency response in most types is + or -1 db from 20 to 15000 cps. and + or -1/2 db. from 30 to 10000 cps.

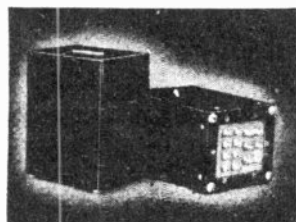
Dimensions: 2 1/2 x 2 3/4 x 3 1/2" high.
Net Weight 1.8 to 2.4 lbs.

Series 900. Any Type. Your Cost. **\$10.78**

Type	Use	Pri. Imp.	Sec. Imp.	Max. Pri. Unbalance
903	Mic or Line to Line	*M-Line	*M-Line	2
905	Mix or Mixer to Line	†A-Line	*M-Line	5
906	Three 200 ohm Lines to M-Line	200-200-200	*M-Line	0
907	Four 50 ohm Lines to M-Line	50-50-50-50	*M-Line	0
909	Crystal Pickup to M-Line	25000/100000	*M-Line	0
910	Mic or Line to S or PP Grids	*M-Line	25000/100000	0
912	Line to S or PP Grids	*M-Line	12500/50000	0
917	Bridging Line to 500 or 200	2500/10000	*M-Line	0
918	Bridging Line to 1 or 2 Grids	2500/10000	25000/100000	0
930	Interstage	2500/10000	22500/90000	0
932	Interstage	5000/20000	20000/80000	5 ma
933	Interstage	5000/20000	5000/20000	1 ma
934	Interstage	5000/20000	2250/9000	1 ma
935	Interstage	5000/20000	1250/5000	1 ma
936	Interstage	2500/10000	2500/10000	3 ma
937	Interstage	2500/10000	1100/4400	3 ma
938	Interstage	2500/10000	625/2500	3 ma
940	Tube to Line	2500/10000	*M-Line	1 ma
942	Tube to Line	5000/20000	*M-Line	1 ma
943	Tube to Line	750/3000	*M-Line	2 ma
944	Tube to Line	1000/4000	*M-Line	2 ma
945	Tube to Line	1250/5000	*M-Line	2 ma
946	Tube to Line	2000/8000	*M-Line	2 ma
947	Tube to Line	2500/10000	*M-Line	2 ma
948	Tube to Line	3500/14000	*M-Line	2 ma
953	PP Plates to V.C.	750/3000	†M-V.C.	3 ma
954	PP Plates to V.C.	1000/4000	†M-V.C.	3 ma
955	PP Plates to V.C.	1250/5000	†M-V.C.	3 ma
956	PP Plates to V.C.	1500/6000	†M-V.C.	3 ma
957	PP Plates to V.C.	1750/7000	†M-V.C.	3 ma
958	PP Plates to V.C.	2000/8000	†M-V.C.	3 ma
959	PP Plates to V.C.	2500/10000	†M-V.C.	3 ma
960	PP Plates to V.C.	3500/14000	†M-V.C.	3 ma
982	Line to Voice Coil	*M-Line	†M-V.C.	0

NOTES:—†A-Line matches 10, 25, 40, 50, 67, 100 ohm lines. Exact balance on 25, 40 and 100 ohm taps.
*M-Line matches 50, 125, 200, 250, 333, 500 ohm lines. Exact balance on 125, 200 and 500 ohm taps.
†M-V.C. matches 1.5, 3.75, 6, 7.5, 10, 15 ohm voice coils. Exact electrical balance on 3.75, 6 and 15 ohm taps.

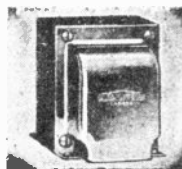
UNIVERSAL DRIVER TRANSFORMERS



These entirely new Universal Driver Transformers incorporate the many features necessary to get the maximum out of a Class B Amplifier or Modulator. Ten ratios are available as follows: 1.25:1, 1.57:1, 1.97:1, 2.04:1, 2.55:1, 2.66:1, 3.2:1, 4.1:1, 5.1:1 and 6.3:1. All total primary to half-secondary (primary c.t. for P.P. Drivers in each case). This allows close matching for practically all combinations of tubes. Frequency range at half power 30-10000 cps., at full power 50-10000.

Type	Max. Watts	Max. D.C. Per Winding	Your Cost
1703	15	70 ma	\$ 7.10
1705	30	100 ma	10.80
1707	60	140 ma	15.20

1600 SERIES AUDIO OUTPUT TRANSFORMERS



Public Address and Amplifier Types

Low leakage loss, freedom from saturation on peaks as well as low copper losses. The following outputs are the result of long experience, careful design and rigorous testing and will be found highly efficient for all regular sound work.

Type	Output Tubes	Watts Primary	Output Taps	Your Cost
1615	PP 2A3, 6A3, 6L6, 6V6	15	5000 ct 3.2, 6.4, 10	\$ 4.08
1618	PP 6F6, 6A6, 6V6, 6AQ5	15	10000 ct 3.2, 6.4, 10	4.08
1632	PPP 45	30	2000 ct 4, 8, 15, 250, 500	4.69
1633	PP 2A3, 6A3	30	3000 ct 4, 8, 15, 250, 500	4.69
1634	PP 45, PPP 12	30	4000 ct 4, 8, 15, 250, 500	4.69
1635	PP 6L6, 6V6, PPP 6A6	30	5000 ct 4, 8, 15, 250, 500	4.69
1636	PP 46, 59, 6L6	30	6000 ct 4, 8, 15, 250, 500	4.69
1637	PP 6L6	30	6000 ct 4, 8, 15, 250, 500	4.69
1639	PP 6F6, 6A6, 6B5	30	10000 ct 4, 8, 15, 250, 500	4.69
1651	PPP 2A3, 6A3, etc	50	1500 ct 4, 8, 15, 250, 500	6.12
1664	PP 6L6, 807	60	3800 ct 4, 8, 15, 30, 250, 500	7.04
1668	PP 807	75	4500 ct 4, 8, 15, 30, 250, 500	7.80
1678	PP 809, etc.	90	8000 ct 4, 8, 15, 30, 250, 500	8.86
1682	PPP 6L6, 807	120	1900 ct 4, 8, 15, 30, 250, 500	11.38
1684	PP 807, 1Z 40, 838	120	7000 ct 4, 8, 15, 30, 250, 500	11.38

800 SERIES AUDIOS

For Aircraft Portable and low Level Equipment



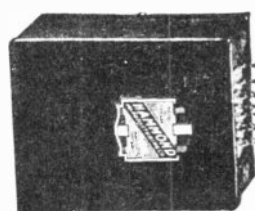
New "MuMetal" core material. Black wrinkled aluminum case providing for reversible mounting and, brass inserts threaded 6-32. "Humless" type construction, balanced windings. Ideal for all work at the lower audio levels.

Series 800. Any Type.

Your Cost. **\$ 5.75**

Type	Use	Pri. Imp.	Sec. Imp.	Max. Pri. Unbalance
801	Line to Line	50/200	50/200	0 ma
802	Mic to Line	50/200	125/500	0 ma
804	Line to Line	125/500	125/500	0 ma
806	Mic to S or PP Grids	7.5/30	10000/40000	0 ma
808	Mic to S or PP Grids	50/200	10000/40000	0 ma
812	Line to S or PP Grids	125/500	10000/40000	0 ma
818	Crystal Mic Pick. to Line	20000/80000	50/200	0 ma
832	S or PP Plates to S or PP Grids	5000/20000	20000/80000	0 ma
834	S or PP Plates to PP Grids	5000/20000	10000/40000	0 ma
835	S or PP Plates to S or PP Grids	10000/40000	10000/40000	0 ma
836	Driver	20000	2200/8800	0 ma
841	S or PP Plates to Line	5000/20000	50/200	0 ma
842	S or PP Plates to Line	5000/20000	125/500	0 ma
843	S or PP Plates to Line	10000/40000	50/200	0 ma
844	S or PP Plates to Line	10000/40000	125/500	0 ma
870	Plate Reactor	130 H, 3 ma	250 H, 0 ma	6000 ohms
872	Plate Reactor	24 H, 15 ma	45 H, 0 ma	1000 ohms

NEW HIGH-FIDELITY OUTPUTS



Other refinements in design reduce wave form distortion to negligible values. Frequency range is 30 to 12000 C.P.S. plus or minus 1 db. at full rated output. Low insertion loss of less than 1 db.

means maximum power transfer. Centre tapped winding for feedback over one or more stages is provided.

Type	Watts	Pri. Imp.	Output Taps	Your Cost
1713	15	3000 ct	4, 8, 15, 30, 125, 250, 500	\$11.22
1715	15	5000 ct	4, 8, 15, 30, 125, 250, 500	11.22
1736	30	6600 ct	4, 8, 15, 30, 125, 250, 500	13.60
1739	30	9000 ct	4, 8, 15, 30, 125, 250, 500	13.60
1764	60	3800 ct	4, 8, 15, 30, 125, 250, 500	17.16
		Pri. Taps		
1782	30	500, 1000	4, 8, 15, 30	8.18
		1500		
1786	60	500, 1000	4, 8, 15, 30	13.40
		1500		

PERFECT MERCHANDISE — PROMPT SERVICE — PERSONAL ATTENTION

HAMMOND MODULATION TYPES AND CHOKES

MODULATION TRANSFORMERS



The three series of Hammond Modulation Transformers listed below cover practically every modulation transformer requirement. Each one is specially engineered and thoroughly tested to stand up under severe peaks and overloads. Properly designed coil and cores with sealed gaps give wide frequency range and quiet operation.

AMATEUR TYPES—WITH INSULATED LEADS

This series provides an efficient, yet economical range of Modulation Transformers for all tubes from 2 to 175 watts. Good response from 150 to 7000 cps. Easy installation, attractive appearance and complete range of types features this series. Black wrinkle finish.

Type	Audio Watts Output	Modulator Tubes	Plate to Plate Impedance	Secondary Impedance	Your Cost
2002	2	1J6, 19, 1H4, 1Q5, 1S4, 1G6	10000 et	5000, 8000	\$ 1.31
2004	3.5	6E6, 49, 19, 38, 41, etc.	10000 et	4000, 6000	2.08
2010	10	6A6, 6N7, 53, 6F6, 6V6, etc.	10000 et	4000, 6000	4.09
2018	18	6F6, 6L6, etc.	5000 et	3500, 5500	4.41
2030	30	6L6, 807, T21, 210, 801, etc.	6600 et	5000, 7000	4.97
2060	60	6L6, 807, RK39, etc.	3800 et	5000, 7000	6.68
2065	60	6L6, 807, RK39	3800 et	3000 & se-wdg	7.05
2067	60	815	6200 et	2660	7.05
2075	75	TZ20, T20, HK24, etc.	12000 et	5000, 7000	7.71
2100	100	809, 800, 35T, 807, etc.	8000 et	5000, 7000	9.18
2175	175	830B, 203A, 838, etc.	7000 et	5000, 7000	16.82
2180	175	811, 812, 809, 845, TZ40, etc.	15000 et	5000, 7000	17.08
2182	175	811, 812, 809, 845	15000 et	1000 & se-wdg	17.50
2183	175	811, 812, 809, etc.	15000 et	5000	18.07

SCREEN MODULATION TRANSFORMER—TYPE 2203

Here is a transformer that will modulate the screen of one or two 804, 807, 813, 814, 828, RK20, etc., tubes. It has a well insulated primary winding designed to connect across the secondary or primary of any modulation transformer and a screen winding developing seventeen per cent. of the primary voltage. This screen winding modulates and carries the proper D.C. voltage to the screen for most efficient operation.

Type 2203—VES Mounting.

Your Cost \$8.80

SEALED PROFESSIONAL TYPES

This series is sealed in rugged black wrinkle finish steel cases, using special compound, having a wide temperature range. Ample primary inductance, low leakage reactance and freedom from core saturation, together with mica insulation, high quality core and properly designed coils provide a high standard of performance.



Type	Audio Watt Output	Modulator Tubes	Plate to Plate Impedance	Secondary Impedance	Your Cost
2205	50	801, 210, 6L6, 807, RK39, etc.	6600 et	3000, 5000, 7000	\$10.28
2210	100	809, TZ20, 800, T20, etc.	8500 et	3000, 5000, 7000	13.55
2220	175	TZ40, T40, 811, 812, etc.	15000 et	3000, 5000, 7000	21.30
2230	300	805, 203, 211, 838, 203Z, etc.	8000 et	3000, 5000, 7000	29.49

UNIVERSAL, OIL-FILLED TYPES

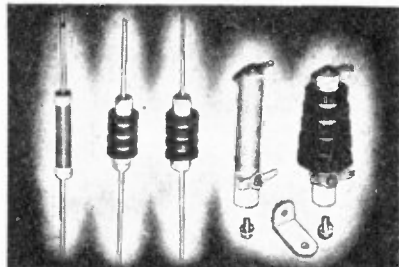
VACUUM-TIGHT WITH GLASS INSULATED TERMINALS

It is now possible for engineers and amateurs to install equipment incorporating the very latest in transformer construction. High electrical performance is had in this series due to the correct proportioning of primary inductance, leakage reactance, winding resistance, etc. Frequency range is from 120 to 7000 cps. over most impedance combinations.

Type	Audio Watts Output	Primary Ma Per Side	Series	Secondary Ma Par.	Your Cost
2310	100	150	150	300	\$25.20
2320	175	200	200	400	34.81
2330	300	350	350	700	47.09
2350	500	500	500	1000	62.69

HAMMOND RADIO FREQUENCY CHOKES

No.	D.C. M.A.	D.C. Induct.	D.C. RES.	Your Cost
1502	500	7 uh	.1 ohm	\$0.35
1504	125	2.5 Mh.	43. ohms	.41
1506	250	1.6 Mh.	13. ohms	.59
1508	500	35 uh.	.25 ohms	.78
1510	400	4.4 Mh.	12. ohms	1.11
1512	1000	3.2 Mh.	6. ohms	1.45



SPECIAL INDUSTRIAL TRANSFORMERS

Special transformers for industrial or laboratory use are also available. Please write for Hammond Industrial Transformer Catalogue.

HAMMOND CHOKES

Hammond Filter Chokes are liberally designed, and will operate continuously at full rated current without overheating. Provision is made for adjustment of gap and the inductance is rated at full load current as in actual operation.



Filter or Smoothing Chokes—Replacement Types 500 V.

No.	Henrys at max.	Current ma.	Res. Ohms.	Peak Volts	Your Cost
150	60H	8	2750		\$0.93
151	110	8	3700		.99
152	7	40	340		.88
153	9	40	300	400	.99
154	10	65	235		1.13
155	30	40	595		1.26
156	50	30	950		1.69
157	27	75	395	500	2.23
158	10	125	155		2.07

Filter or Smoothing Chokes Shielded Type

10-100X	15	100	155	500	\$ 2.33
10-150X	10	150	102	600	3.12
10-200X	10	200	82	800	4.59
10-300X	10	300	63	800	6.68
10-500X	10	500	53	1000	14.20
30-65X	30	65	380	500	2.48
30-100X	30	100	280	500	3.33
30-150X	25	150	190	800	6.25
30-200X	26	200	152	800	7.98
30-300X	30	300	144	1000	13.28

HIGH VOLTAGE CHOKES 5000V.

No.	Henrys at Rated ma.	Henrys at O. ma.	Res. ohms.	Peak Volts	Your Cost
10V200	10	15	82	4000	\$ 5.42
10V300	8.7	14	63	4000	7.92
10V500	9.1	12	54	4000	14.59
10V750	9.6	16	29		21.99
10V1000	9.4	17	26		40.00
5V1000	5	10	16	5000	24.55
5V1500	4.7	11	12		45.75
5V2000	4.5	9	9		78.90
30V150	23	38	193		7.12
30V200	24	38	155		8.78
30V300	30	43	144	4000	15.80
20V500	17	23	87		29.60
20V750	18	25	50	5000	43.95

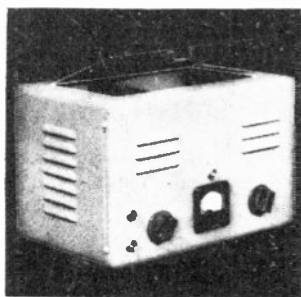
High Voltage input or Swinging Chokes 5000 V.

12S200	4.6	21.4	82		\$ 5.43
12S300	4.15	23.4	63	5000	7.92
12S500	3.4	27	54		14.58
12S750	3.5	24	29	6000	21.99
12S1000	3.3	21	26		40.00
22S150	8.2	59.5	193		6.65
22S200	8.3	57	155	5000	8.75
22S300	9.2	64.3	144		15.80
22S500	7.8	48	87		29.60

Heavy Current Chokes—Shielded Types 300 V.

No.	H. at max	Cur. A.D.C.	Res. ohms.	Peak volts	Your Cost
192F	0.1	2 amps	1.73		\$ 5.23
193F	0.1	3 amps	0.99	300	6.68
195F	0.1	5 amps	0.55		12.70
197D	0.5	10 amps	0.18		24.30

COMPLETE HAMMOND CATALOGUE SENT ON REQUEST



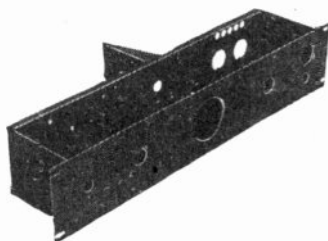
CABINETS AND PUNCHED CHASSIS FOR 813 TRANSMITTER

(Free Diagram No. 126S)

Here is a highly efficient, powerful and up-to-the-minute transmitter which can be built at really low cost. Easily constructed, compact and with stable operation on 75, 40, 20 and 10 meters. Thoroughly proven unit type construction. 200 watts input.

Type	Description	Your Cost
1429A	Cabinet, Panel and Punched Chassis Assembly for R.F. Unit. 200 Watts Input. 6V6 and 813.....	\$10.50
1429B	Cabinet, Panel and Punched Chassis Assembly for Power Supply. 1000 Volts. 200 Ma. D.C.....	11.80
1429C	Cabinet Panel and Punched Chassis Assembly for Cathode Modulator.....	9.88

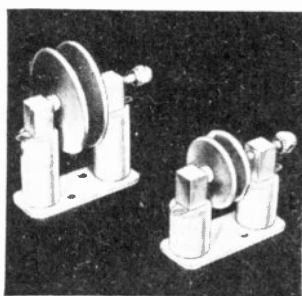
EXCITER PANEL AND CHASSIS



A foundation unit for the efficient, commercial-like construction of the exciter section of your transmitter. For 6V6 or 6L6 and 807. Complete with punched chassis, panel and tube bracket. (See ARRL Handbook for wiring and operating details.) Standard Finish: Black Wrinkle. Optional Finish: Gray Hammerlin or Black Wrinkle.

Type	Height	Your Cost
1426	3 1/2	\$4.85

NEUTRALIZING CONDENSERS



These two new disc-type neutralize practically all present-day Amateur tubes. Polished Aluminum Discs, Alsmag Insulation and spring tension on adjusting screw feature these practical condensers. Rating at Min. Spacing .125" Peak Volts 7000 Rating at Max. Spacing Peak Volts 18,000.

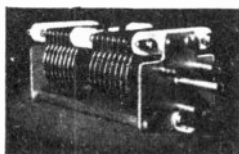
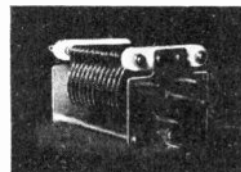
Type	Disc Diams.	Max. Cap.	Min. Cap.	Your Cost
8401	1 3/8"	4.7 mmfd.	1.9 mmfd.	\$2.87
8403	2 1/8"	7.8 mmfd.	2.2 mmfd.	\$3.42

CHROME HANDLES

No. 1427—Modernistic Satin Finish Steel.

Your Cost.....\$0.28

No. 1428—Heavy Duty Leather. Your Cost.....\$0.41

VARIABLE
CONDENSERS

- Hammond Low Loss Construction.
- Alsmag 196, or Isolantite Insulation.
- High Maximum to Minimum Capacity Ratio.
- Uniform Design in Four Distinct Series.
- Maximum Capacity and Voltage Rating for Size.
- Voltage and Capacity Stamped on Condenser.
- Long Leakage Path.
- More Uniform Power Distribution in Plates.
- Ample Rotor Contact.
- Both Panel and Base Mountings.
- Rounded and Polished Plates (3000 v. up).

8000 SERIES CONDENSERS

Three-point panel or sub-base mounting, 2 1/2" rotor, 1/4" shaft, 2 3/4" wide, 2 3/4" high. Straight line capacity. Insulation is Isolantite which has been dehydrated and treated with Amphinol 912.

Type	Capacity	Mmfd.	Peak Volt. Rtg.	Spacing	Depth	Your Cost
8115	151 Max.	10 Min.	2400	.0375	3 1/8	\$3.15
8125	240 Max.	11 Min.	2400	.0375	3 1/8	3.33
8135	341 Max.	13 Min.	2400	.0375	3 1/8	3.67
8820	205-205 Max.	10-10 Min.	2400	.0375	4 3/8	5.68
8302	25 Max.	8 1/2 Min.	4600	.080	3 1/8	3.02
8305	51 Max.	9 1/2 Min.	4600	.080	3 1/8	3.47
8307	78 Max.	11 Min.	4600	.080	3 5/8	3.92
8310	108 Max.	12 1/2 Min.	4600	.080	4	4.38
8315	162 Max.	17 Min.	4600	.080	4 3/8	5.52
8805	49-49 Max.	8 1/2-8 1/2 Min.	4600	.080	5	5.61
8810	106-106 Max.	11-11 Min.	4600	.080	6 5/8	6.61
8815	165-165 Max.	14-14 Min.	4600	.080	8 1/8	7.84

9000 SERIES CONDENSERS

A rugged high-voltage condenser giving the very maximum in capacity and peak voltage rating per cubic inch. Straight line capacity type 3 3/8" wide, 3 3/8" high (depth behind panel specified below). Standard 1/4" shaft, three-point panel mounting screws and three-point chassis mounting feet provided. Alsmag 196 ceramic insulation.

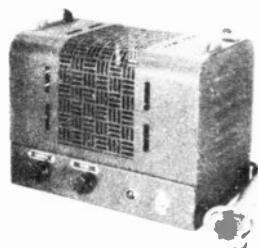
Type	Capacity	Mmfd.	Peak Volt. Rtg.	Spacing	Depth	Your Cost
9315	155 Max.	11 Min.	4600	.080	4 1/4	\$ 5.08
9325	252 Max.	15 Min.	4600	.080	5 1/4	6.18
9335	335 Max.	18 1/2 Min.	4600	.080	6	8.17
9350	510 Max.	22 1/2 Min.	4600	.080	7 1/4	10.20
9522	225-225 Max.	13-13 Min.	4600	.080	11 1/2	16.25
9602	28 Max.	10 Min.	7500	.185	4 5/8	3.86
9605	56 Max.	12 1/2 Min.	7500	.185	4 5/8	5.52
9607	81 Max.	14 1/2 Min.	7500	.185	5 1/8	8.18
9610	106 Max.	18 Min.	7500	.185	6 5/8	10.25
9615	154 Max.	24 Min.	7500	.185	8 3/8	12.40
9905	56-56 Max.	12-12 Min.	7500	.185	8 1/4	12.45
9910	103-103 Max.	18-18 Min.	7500	.185	11 1/8	16.50

12,000 VOLT CONDENSERS

These Condensers give you more plate spacing (.390") with smaller over-all dimensions. They are rugged in construction, easy to mount on panel, standoffs or chassis, have Mycalex insulation, rounded, polished plates.

Type	Capacity	Mmfd.	Peak Volt. Rtg.	Spacing	Depth	Your Cost
9802	26 Max.	11-7 Min.	12000	.390	6	\$ 8.19
9805	50 Max.	18 Min.	12000	.390	7 3/4	12.39
9807	78 Max.	24 Min.	12000	.390	10	16.38
9810	96 Max.	33 Min.	12000	.390	12 1/2	20.48
9906	44 1/2-44 1/2 Max.	17 1/4-17 1/4 Min.	12000	.390	14 1/2	21.75

MAIL YOUR ORDERS TO MONTREAL OR TORONTO



Designed and engineered by Hammond—your guarantee of complete satisfaction. Incorporated are: an electronic mixer with no interaction between controls; negative feedback for minimum distortion (10%); self-contained power supply, all assembled on one ready-punched chassis measuring 10" x 6" x 2". An attractive ventilated cover and Kromoid finish handles available at slightly extra cost. **Schematic Diagram supplied free.**

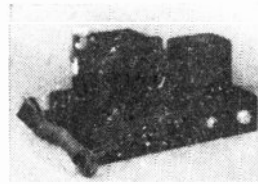
7 WATT AMPLIFIER KIT

PARTS REQUIRED

- | | |
|----------------------------------|--------------------------------|
| 1—272X-60 or 25 cycle | 1—4 mfd. 450 v. |
| 1—453 Output | 3—.1—600 v. |
| 1—154 Choke | 2—.02—600 v. |
| 1—1442-G Chassis | 3—S8 Sockets |
| 1—6-8 v. Pilot | 2—S4 Sockets |
| 2—500,000 ohm Controls | 1—61-F Outlet |
| | 1— $\frac{1}{2}$ " Jew. Socket |
| 1—5 meg. $\frac{1}{2}$ watt | 1—Pickup Jack (SC) |
| | 1—Mic. S.C. Connector |
| 1—2 meg. $\frac{1}{2}$ watt | 1—SPST Toggle Sw. |
| 1—500,000 ohm $\frac{1}{2}$ watt | 1—Bias Cell and Holder |
| 1—250,000 ohm $\frac{1}{2}$ watt | 1—8 ft. Line Cord with Plug |
| 1—200,000 ohm $\frac{1}{2}$ watt | 3—Name Plates |
| 1—100,000 ohm $\frac{1}{2}$ watt | 1—2 amp. Fuse and Holder |
| 1—1,500 ohm 1 watt | 2—Bar Knobs |
| 1—175 ohm 10 watt | Tubes—See "Technical Data" |
| 2—16 mfd. 450 v. | |
| 2—24 mfd. 70 v. | |

COMPLETE KIT WITH TUBES

Your Cost 60 cy..... Approx. **\$29.00**
Your Cost 25 cy..... Approx. **30.00**



TECHNICAL DATA

Output Level: ± 31 db. (0 db. level $\pm .006$ w.).
Frequency Response: 50 to 9000 cycles. ± 2 db.
Gain: 109 db. from high impedance mic.
86 db. from high impedance pick-up.
Input: One high impedance mic. input.
One high impedance pick-up input.
Output: 3.2, 6.4, 10 ohms.
Tubes: 6SJ7, 6N7, 6L6 and 80. (6SJ7 used as mic. amp.).
Supply Voltage: 115 v., 60 or 25 cycle.
Power Consumption: 60 watts.

15 WATT AMPLIFIER KIT

Designed for those who want medium power and high quality. Featuring an Electronic mixer, Cathode Follower and self-contained power supply. Chassis size 12" x 8" x 3" ready punched, crackle finished. Ventilated covers and Kromoid handles are available at slightly extra cost. **Schematic Diagram supplied free.**

TECHNICAL DATA

Power Output:
21.75 watts maximum or +35 db. (10% distortion).
15.00 watts or +34 db. (2.5% distortion).
Frequency Response: 30-5000 cycles = 1 db.
30-10,000 cycles = 2 db.
Gain: 126 db. from high impedance mic.
69 db. from high impedance pick-up.
Input: One high impedance mic.
One high impedance pick-up.
Output: 3.2, 6.4, 10 ohms.
Tubes: 6SJ7, 6N7, 6C5, PP6L6, 5Z3 (6SJ7 used as mic. amp.)
Supply Voltage: 115 volts, 25 or 60 cycles.
Power Consumption: 100 watts.

PARTS REQUIRED

- | | |
|----------------------------------|--------------------------------|
| 1—276X, 60 or 25 cycle | 1—8 mfd. 450 v. |
| 1—1615 Output | 1—4 mfd. 450 v. |
| 1—331 Audio | 3—.1—600 v. |
| 1—10-150X Choke | 3—.01—600 v. |
| 1—1444D Chassis | 5—8-pr. Socket |
| 1—6-8 v. Pilot | 2—4-pr. Socket |
| 1—5 meg. $\frac{1}{2}$ watt | 1—AC Outlet |
| 1—2 meg. $\frac{1}{2}$ watt | 1— $\frac{1}{2}$ " Jew. Socket |
| 2—500,000 ohm V.C.'s | 1—Pick-up Jack (S.C.) |
| 3—500,000 ohm $\frac{1}{2}$ watt | 1—Mic. Connector |
| 1—200,000 ohm $\frac{1}{2}$ watt | 1—SPST Toggle Sw. |
| 1—100,000 ohm $\frac{1}{2}$ watt | 1—Bias Cell and Holder |
| 1—50,000 ohm Tone | 1—8 ft. Line Cord with Plug |
| 1—25,000 ohm 50 watt | 4—Name Plates |
| 1—10,000 ohm 1 watt | 3—Bar Knobs |
| 1—1,500 ohm 1 watt | 1—2 amp. Fuse and Holder |
| 1—150 ohm 10 watt | Tubes—See "Technical Data" |
| 2—20 ohm $\frac{1}{2}$ watt | |
| 2—24 mfd. 50 v. | |
| 2—16 mfd. 450 v. | |

COMPLETE KIT WITH TUBES

Your Cost 60 cy..... Approx. **\$40.00**
Your Cost 25 cy..... Approx. **42.00**

60 WATT AMPLIFIER KIT

The design of this 60 watt amplifier is such that it will provide ample coverage for almost any indoor or outdoor requirement. Simultaneous operation of both Mic. inputs or Mic. No. 1 and pick-up may be had. This is accomplished by switches S1 and S2 which are mounted on the rear of the vol. controls. A 17 x 14 x 3 Chassis is used for 25 cycles and a 17 x 12 x 3 Chassis for 60 cycles. All ready punched chassis.

TECHNICAL DATA

Power Output:
61.25 watts max. or 40.12 db. (6% distortion).
60.00 watts or 40 db. (3% distortion).
0 db. level .006 watts.
Frequency Response: 40-10,000 cycles ± 2 db.
Gain: 127 db. from high impedance microphone.
75 db. from high impedance pick-up.
Input: Dual channel high impedance microphone. (.008 volts or—87 db. gives full output).
One high impedance pick-up.
(1.0 volts or—35 db. gives full output)
Output: 4, 8, 15, 30, 250, 500.
Tubes: 2-6SJ7, 6N7, 6F6; 2-6L6, 83, 80.
Power Consumption: 25 watts.

30 WATT AMPLIFIER KIT

This 30 watt high quality amplifier has all the modern features embodied consistent with sound engineering. The advantages of electronic mixing and negative feedback are fully appreciated in this amplifier. The complete amplifier and power supply is assembled on one ready punched chassis measuring 10" x 17" x 3". An attractive ventilated cover and Kromoid finish handles are also available at slightly extra cost. **Schematic diagram supplied free.**

TECHNICAL DATA

Power Output:
32.76 watts max. or 37.5 db. (10% distortion).
30.00 watts or 37 db. (5% distortion).
0 db. level .006 watts.
Frequency Response: 30-10,000 cycles ± 2 db.
Gain: 117 db. from high impedance mic.
72 db. from high impedance pick-up.
Input: Dual channel high impedance mic.
One high impedance pick-up.
Output: 4, 8, 15, 250, 500.
Tubes: 2-6SJ7, 6N7, 6F6, 2-6L6, 83.
Supply Voltage: 115 volts 25 or 60 cycle.
Power Consumption: 126 watts.

PARTS REQUIRED

- | | |
|----------------------------------|--------------------------------|
| 1—265 Power Trans. | 3—20 ohm $\frac{1}{2}$ watt |
| 1—267 Fil. Trans. | 3—24 mfd. 50 v. |
| 1—1637 Output | 2—16 mfd. 450 v. |
| 1—447 Audio | 1—5 mfd. 25 v. |
| 1—10-150X Choke | 1—4 mfd. 450 v. |
| 1—155 Choke | 2—.1—600 v. |
| 1—156 Choke | 2—.05—600 v. |
| 1—1446D Chassis | 3—.01—600 v. |
| 2—5 meg. $\frac{1}{2}$ watt | 7—S8 Sockets |
| 1—2 meg. $\frac{1}{2}$ watt | 1—S4 Socket |
| 1—1 meg. $\frac{1}{2}$ watt | 1—61F Outlet |
| 3—500,000 ohm V.C.'s | 1—SPST Toggle Sw. |
| 1—250,000 ohm $\frac{1}{2}$ watt | 1—8 ft. Line Cord |
| 2—200,000 ohm $\frac{1}{2}$ watt | 4—Name Plates |
| 1—100,000 ohm $\frac{1}{2}$ watt | 1— $\frac{1}{2}$ " Jew. Socket |
| 1—50,000 ohm $\frac{1}{2}$ watt | 1—Pick-up Jack |
| 1—50,000 ohm 20 watt | 2—S.C. Connectors |
| 1—50,000 ohm Tone | 1—6-8 v. Pilot |
| 1—10,000 ohm 1 watt | 4—Bar Knobs |
| 1—5,000 ohm 50 watt (tapped) | 1—3 amp. Fuse and Holder |
| 1—1,500 ohm 1 watt | 2—Volume Control Switches |
| 1—1,500 ohm 5 watt | Tubes—See "Technical Data" |
| —750 ohm 1 watt | |
| 1—150 ohm 10 watt | |
| 1—100 ohm $\frac{1}{2}$ watt | |

COMPLETE KIT WITH TUBES

Your Cost 60 cy..... Approx. **\$55.00**
Your Cost 25 cy..... Approx. **60.00**

PARTS LIST

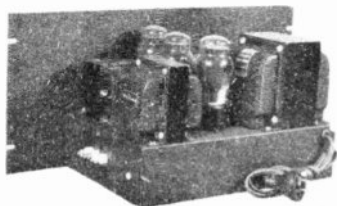
- | | |
|--|---|
| 1—277X Power Transformer | 2—16 MFD. 450V |
| 1—1664 Output Transformer | 1—8 MFD. 450V |
| 1—448 Audio Transformer | 2—4 MFD. 450V |
| 1—10-200X Choke | 1—.1-600V |
| 1—157 Choke | 2—.05-600V |
| 1—1447D Chassis for 60 cycle | 4—.01-600V |
| 1—1448D Chassis for 25 cycle (Ready Punched) | 8—8 Prong (RSS8) |
| 2—5 Meg. $\frac{1}{2}$ Watt | 1—4 Prong (RSS4) |
| 2—1 Meg. $\frac{1}{2}$ Watt | 1—A.C. Outlet (61F) |
| 3—500,000 vol. controls | 3—Vol. Control Switch Cover Plates |
| 1—500,000 $\frac{1}{2}$ Watt | 1—Fuse Holder |
| 1—Name Plate "RECORD" | 1—3 Amp. Fuse |
| 2—5000 $\frac{1}{2}$ Watt | 1—S. P. S. T. Toggle Switch (with Name Plate) |
| 1—50,000 Tone Control | 1—8 Ft. Line Cord |
| 1—50,000 $\frac{1}{2}$ Watt | 1—Name Plate "TONE" |
| 1—50,000 20 Watt | 1— $\frac{1}{2}$ " Jewelled Bracket (with Socket) |
| 1—15,000 20 Watt | 1—Pick-up Jack (SC) |
| 2—5000 $\frac{1}{2}$ Watt | 2—Microphone S.C. Connectors |
| 1—1500 1 Watt | 4—Bar Knobs |
| 1—1500 5 Watt | 1—6-8V Pilot Light |
| 1—750 1 Watt | Diagram supplied FREE |
| 1—300 20 Watt Adjustable | |
| 1—125 20 Watt | |
| 1—100 1 Watt | |
| 3—20 5 Watt | |
| 4—24 MFD. 50V | |
| 2—20 MFD. 450V | |

Your Cost
60 cy. Approx. **\$67.50**
25 cy. Approx. **72.00**

NEW AMATEUR KITS BY

HAMMOND
CANADA

15 WATT MODULATOR KIT



Although designed primarily for use with the low power transmitter, this modulator may be used with any Class "C" R.F. amplifier requiring 15 watts of audio power.

Parasitics in the modulator stage are suppressed by the use of 20 ohm resistors in the grid of each 6L6, and distortion is minimized by the use of inverse feed back. The modulation transformer has a secondary tapped for a Class "C" load of 3500 or 5500 ohms.

Diagram supplied FREE

PARTS LIST

HAMMOND

- 1—276X Transformer, 60 or 25 cy.
- 1—2018 Transformer
- 1—432 Transformer
- 1—10-150X Choke
- 1—1444G Punched Chassis

TUBES

- 1—6S17
- 1—6C5
- 2—6L6
- 1—5Z3
- 1—6-8V Pilot Light

RESISTORS

- 1—5 Meg. 1/2 Watt
- 1—2 Meg. 1/2 Watt
- 1—500,000 Gain Control
- 1—200,000 1/2 Watt
- 2—50,000 1/2 Watt
- 1—25,000 50 Watt
- 1—10,000 1 Watt
- 1—10,000 1/2 Watt
- 1—7,500 5 Watt
- 3—2,000 1/2 Watt
- 1—1,500 1/2 Watt
- 1—200 10 Watt
- 1—200 1/2 Watt
- 2—20 1 Watt

SOCKETS

- 4—8 Prong (Amphenol) RSS8
- 1—4 Prong (Amphenol) RSS4

CONDENSERS

- 3—24 MFD 50V
- 2—16 MFD 450V
- 1—8 MFD 450V
- 1—4 MFD 450V
- 1—1,600V
- 2—.05, 600V
- 1—.01, 600V

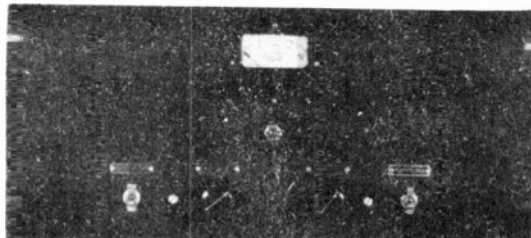
MISCELLANEOUS

- 1—1/2" Jewelled Bracket (with Socket)
- 1—S.P.S.T. Toggle Switch (with Nameplate)
- 1—2 Amp. Fuse
- 1—Fuse Holder
- 1—Microphone S.C. Connector
- 1—Bar Knob
- 1—Name Plate "GAIN"
- 1—6 Ft. Length Line Cord
- 3—Midget Feed Trough Insulators

TUBES: See technical data.

Your Cost approx.—60 cycle \$40.00
Your Cost approx.—25 cycle \$41.00

LOW POWER TRANSMITTER KIT



This Transmitter was designed to fill the need for a simple, inexpensive, self contained rig which can later be used as an exciter for final amplifiers up to 250 watts input.

Chassis is 8 x 12 x 3 inches and the panel is 8 1/4 x 19 inches and is punched for standard rack assembly.

Frequency covering 80-40-20-10 meter band.

Diagram supplied FREE

PARTS LIST

HAMMOND

- 1—276X Transformer, 60 or 25 cy.
- 1—255X Transformer, 60 or 25 cy.
- 1—158 Filter Choke
- 1—155 Filter Choke
- 2—7110 Variable Condensers
- 2—1504 R.F. Chokes
- 1—1444F Punched Chassis

TUBES

- 1—6F6 or 6V6
- 1—807
- 1—5Z3
- 1—6-8V Pilot Light

RESISTORS

- 1—100,000 1 Watt
- 1—50,000 2 Watt
- 2—5,000 2 Watt
- 1—10,000 5 Watt
- 1—10,000 10 Watt
- 1—2,500 10 Watt
- 1—300 5 Watt
- 1—200 10 Watt
- 2—50 5 Watt

Your Cost approx.—60 cycle \$51.00
Your Cost approx.—25 cycle \$54.00

CONDENSERS

- 2—16 MFD 450V
- 1—4 MFD 450V
- 3—.01, 600V Tubular
- 2—.001 Mica
- 3—.002 Mica
- 1—.005 Mica
- 1—.0005 Mica

SOCKETS

- 1—8 Prong (Amphenol) RSS8
- 3—5 Prong (Amphenol) RSS5
- 2—4 Prong (Amphenol) RSS4
- 1—AC Outlet (Amphenol) 61F

MISCELLANEOUS

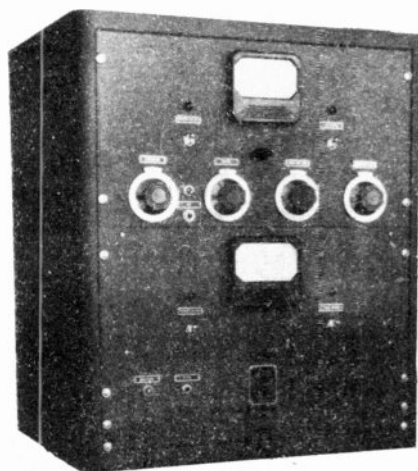
- 1—1/2" Jewelled Bracket (with socket)
- 2—S.P.S.T. Toggle Switches (with Name Plate)
- 1—S.P.D.T. Toggle Switch
- 2—Crystals, (80 and 40 Meter)
- 1—0-200 M.A. Triplett Meter 2"
- 2—National or Millen Dials
- 1—8 Ft. Length Line Cable with Plug

75 WATT MODULATOR ALSO AVAILABLE ASK FOR DIAGRAM No. 1254

150 WATT TRANSMITTER KIT

A compact, well designed phone transmitter, which is capable of producing a 100 watt carrier with 150 watts input to the final amplifier. The modulator is very conservatively rated and supplies more than sufficient audio power to fully modulate the class "C" final. The standard Low Power Transmitter, described on information sheet No. 1253, is used to excite the P.P. 809 final amplifier. Grid current is 40 M.A. for both tubes.

A 0-300 M.A. meter is used to read cathode current of the OSC 807 and P.P. 809 stages, also final amplifier grid current. The modulator and its power supply are mounted on a chassis 14 x 17 x 3 inches. The RF section and its power supply are mounted on a chassis 14 x 17 x 3 inches. The complete transmitter may be installed in a type 1460F cabinet as illustrated.



PARTS LIST

HAMMOND

- 1—1136X Transformer, 60 or 25 cycle.
- 1—726X Transformer, 60 or 25 cycle.
- 1—30-200X Filter Choke
- 1—157 Filter Choke
- 1—155 Filter Choke
- 2—7110 Variable Condensers
- 1—7710 Variable Condenser
- 1—8810 Variable Condenser
- 2—7301 Variable Condensers
- 3—1504 RF Chokes
- 1—1506 RF Choke
- 1—1448E Punched Chassis

RESISTORS

- 1—100,000 1 Watt
- 1—50,000 2 Watt
- 2—35,000 2 Watt
- 1—30,000 20 Watt
- 1—10,000 5 Watt
- 1—10,000 10 Watt
- 1—4,000 10 Watt
- 1—3,000 75 Watt
- 1—2,500 20 Watt
- 1—200 20 Watt
- 1—200 10 Watt
- 1—200 5 Watt
- 4—50 5 Watt
- 1—20 5 Watt

CONDENSERS

- 5—20 MFD 450V
- 1—16 MFD 450V
- 1—.01 600V Tubular
- 2—.001 Mica

- 2—.002 Mica
- 5—.005 Mica
- 2—.0005 Mica

SOCKETS

- 1—8 Prong (Amphenol) RSS8
- 4—5 Prong (Amphenol) RSS5
- 4—4 Prong (Amphenol) RSS4
- 1—AC Outlet (Amphenol) 61F

MISCELLANEOUS

- 1—1/2" Jewelled Bracket (with socket)
- 2—S.P.S.T. Toggle Switches (with Name plate)
- 1—2 Gang 4 Position Switch

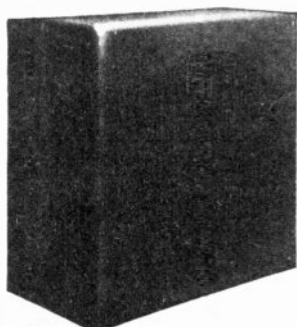
- 1—Crystal
- 1—0-300 M.A. Triplett Meter 3"
- 4—National or Millen Dials
- 1—Set Barker & Willamson Coils For each Band
- 1—6 Ft. length line cable with plug
- 1—6-8V Pilot bulb

TUBES

- 1—6F6 or 6V6
- 1—807
- 2—809
- 2—866JR
- 1—6-8V Pilot bulb

Your Cost approx.—
60 cycle \$131.00
25 cycle \$135.00

200 WATT TRANSMITTER ALSO AVAILABLE ASK FOR DIAGRAM No. 1268



SPEAKER CABINETS

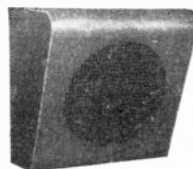
New streamlined Speaker Cabinets, ideal for sound installations, etc. Made of 20-gauge steel, soundproofed, all corners rounded and equipped with rubber feet. Standard finishes: black wrinkle or grey hammerlin.

Type	Dimensions	Speaker Size	Your Cost
1406C	6x6x3	4"	\$1.92
1406D	7½x7½x3½	5"	2.44
1406E	8x8x4	6"	3.20
1406F	10x10x5	8"	4.03
1406G	12x12x6	10"	4.83
1406H	14x14x8	12"	5.62

(SPECIFY COLOR)

SLOPING FRONT SPEAKER CABINET

Ideal for sound installations, etc. Standard finishes black wrinkle enamel or grey hammerlin.



Standard finishes: black wrinkle enamel or grey hammerlin.

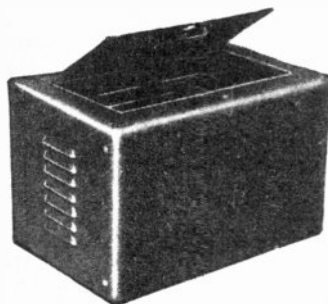
Type	Dimensions	Speaker	Your Cost
1407E	8x8x7	6"	\$3.20
1407F	10x10x8	8"	4.03
1407G	12x12x9	10"	4.83
1407H	14x14x11	12"	5.62

(SPECIFY COLOR)

HINGED-LID CABINETS

New!

SLOPING-FRONT CABINETS



(SPECIFY COLOR)

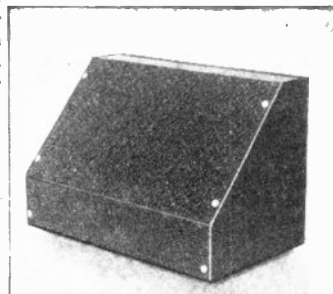
Smooth rounded corners with ventilating louvers in each end and in rear, hinged lid and removable front panel. Bottom is equipped with four rubber feet. Standard finishes: black wrinkle enamel or grey hammerlin.

Type	Dimensions	For Chassis	Your Cost
1403C	5½x9¾x7	1441	\$3.03
1403D	6½x10¾x7	1442	3.54
		1443	
1403E	8½x12¾x8	and 1444	4.12
1403G	8½x16¾x8	1445	4.87
1403H	10½x17¾x8	1446	5.82
1403I	12½x17¾x8	1447	6.32
		1448	
1403J	14½x17¾x10	and 1449	7.83

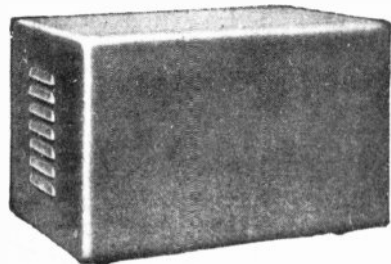
Sloping front cabinets are ideal for equipment for bench or desk. Add a handle for portable work. The front is removable, and opened in the back for chassis connections. Standard finishes black wrinkle enamel or grey hammerlin.

Type	Dimensions	For chassis	Your Cost
1404B	5½x10x6¼	1441	\$3.78
1404D	6½x11x7¼	1442	4.20
1404F	8½x13x9¼	1443	5.02
1404H	8½x17x9¼	1445	6.30

(SPECIFY COLOR)



STREAM-LINED CABINETS



Here is a new series of ultra-modern Cabinets, with smooth rounded corners. They are styled to go with the very latest in post-war electronic equipment. Removable front panel, rubber feet and ventilating louvers in back and ends feature this new line. Standard finishes: black wrinkle enamel or grey hammerlin.

Type	Dimensions	For Chassis	Your Cost
1402-B	4½x8¾x6	1440	\$2.48
1402-C	5½x9¾x7	1441	2.65
1402-D	6½x10¾x7	1442	2.82
1402-E	8½x12¾x8	1443 and 1444	3.10
1402-G	8½x16¾x8	1445	3.42
1402-H	10½x17¾x8	1446	4.15
1402-I	12½x17¾x8	1447	4.48
1402-J	14½x17¾x10	1448 and 1449	5.32

(SPECIFY COLOR)

NEW UNIVERSAL CABINET PARTS

These redesigned Universal Cabinet Sections are 11" front to back, have rounded corners and make low cost construction of Cabinets for Electronic Equipment available. It is now possible to add to your equipment by simply adding these new Cabinet ends. Standard finishes, black wrinkle enamel or grey hammerlin.

Type	Description	Height	Panel	Your Cost
1490	Bottom Plate or Intersection Shield			\$1.19
1492	Hinged Top Assembly			3.38
1493	Cabinet End	5¼	Use 1473 or 1483	2.07 Pr.
1494	Cabinet End	7	Use 1474 or 1484	2.24 Pr.
1495	Cabinet End	8¾	Use 1475 or 1485	2.45 Pr.
1496	Cabinet End	10½	Use 1476 or 1486	2.73 Pr.
1497	Cabinet End	12½	Use 1477 or 1487	3.03 Pr.
1498	Cabinet End	14	Use 1478 or 1488	3.32 Pr.

(SPECIFY COLOR)

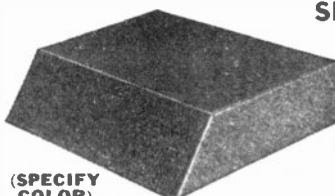
METER CASES



New! build your own instruments. Standard finishes: black wrinkle enamel or grey hammerlin.

Type	Dimensions	Meter Size	Your Cost
1412B	4x3¾x3¾	3	\$1.75
1412D	5½x5½x5½	4	2.82

(SPECIFY COLOR)



(SPECIFY COLOR)

SLOPING FRONT CHASSIS

Standard finishes: black wrinkle enamel or grey hammerlin.

Type	Over-all Dimensions	Use Cover No.	Your Cost
1442S	7½x10x2	1452	\$1.19
1444S	10½x12x3	1453	1.45
1446S	12½x17x3	1456	1.95
1448S	16½x17x3	1458	2.50

SPECIAL FINISHES CAN BE HAD AT 15% EXTRA: BEIGE HAMMERLIN, BLUE HAMMERLIN, GREEN HAMMERLIN, GREY ENAMEL AND PLATINUM GREY

COMPLETE HAMMOND CATALOGUE SENT ON REQUEST

CHASSIS PANELS—CABINETS

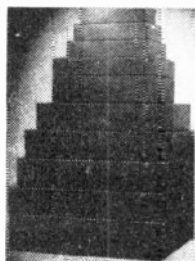
HAMMOND

CANADA

HAMMOND CHASSIS—Ideal for Amplifiers, Electronic and Transmitting Equipment

CADMIUM - PLATED CHASSIS

Type	Your Cost	Size W L D	Type	Your Cost
1440	\$0.70	4" x 8" x 2"	1440C	\$0.87
1441	.82	5" x 9" x 2"	1441C	.97
1442	.93	6" x 10" x 2"	1442C	1.11
1443	1.03	8" x 12" x 2"	1443C	1.33
1444	1.17	8" x 12" x 3"	1444C	1.47
1445	1.41	8" x 16" x 3"	1445C	1.76
1446	1.60	10" x 17" x 3"	1446C	2.03
1447	1.80	12" x 17" x 3"	1447C	2.27
1448	2.07	14" x 17" x 3"	1448C	2.53
1449	2.64	14" x 17" x 4"	1449C	2.97



BOTTOM PLATES

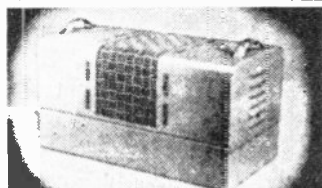
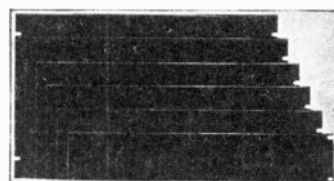
Type	For Chassis	Your Cost
1430	1440	\$0.18
1431	1441	.18
1432	1442	.22
1433	1443	.28
1434	1444	.28
1435	1445	.29
1436	1446	.32
1437	1447	.35
1438	1448	.38
1439	1449	.38

PANELS

Notched for standard racks and cabinets

$\frac{3}{32}$ " Steel

These panels are made from $\frac{3}{32}$ " thick stress relieved steel, accurately slotte to fit standard racks and cabinets having $1\frac{1}{4}$ " x $\frac{1}{2}$ " spacings. Finished in black wrinkle enamel or grey hammerlin.



STANDARD FINISHES

Black wrinkle or grey hammerlin.
SPECIFY COLOR.

METER PANELS

Black wrinkle or grey hammerlin.



No.	No. Meters	Diam. Holes.	Your Cost
1483G	Four 2"	2 $\frac{1}{8}$ "	\$1.01
1483H	Five 2"	2 $\frac{1}{8}$ "	1.08
1483K	Three 3"	2 $\frac{1}{8}$ "	1.68
1483M	Four 3"	2 $\frac{1}{8}$ "	1.88

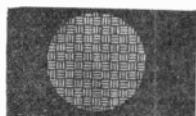
NEW VENTILATED CHASSIS COVERS

Specialty Designed for Electronic and P.A. Equipment

Type	Size	Fits Chassis	Your Cost
1450	4x 8x5 $\frac{1}{4}$ "	1440	\$1.62
1451	5x 9x5 $\frac{1}{4}$ "	1441	1.62
1452	6x10x5 $\frac{1}{4}$ "	1442	1.62
1453	8x12x5 $\frac{1}{4}$ "	1443 and 1444	2.16
1455	8x16x5 $\frac{1}{4}$ "	1445	2.58
1456	10x17x5 $\frac{1}{4}$ "	1446	3.16
1457	12x17x5 $\frac{1}{4}$ "	1447	3.46
1458	14x17x5 $\frac{1}{4}$ "	1448 and 1449	3.87
1459	14x17x7	1448 and 1449	4.37

SPEAKER PANEL

Grey hammerlin or black.



No.	Speaker	Your Cost
1484S	5"	\$1.53
1486S	8"	2.07
1487S	10"	2.65



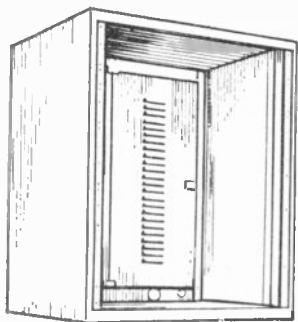
OPEN-BACK TABLE RACKS

Ideal for small transmitters. 1465 series. Write for catalogue.

DESK TYPE CABINETS AND RACKS

Hinged Lid Gives Accessibility.
Solid Welded Construction—No Bolts.
Rounded Corners—No Screws on Sides.
Removable Connection Panel for "BX" or Cables.
Standard color grey hammerlin.
Chassis Support Brackets.
Removable Rear Panel with Ventilating Louvres.
Over-all width, 21"—Depth, Front to Back.

Type	Panel Space	Over-all Height	Your Cost
1460B	8 $\frac{3}{4}$ "	10 $\frac{3}{4}$ "	\$12.50
1460C	10 $\frac{1}{2}$ "	12 $\frac{1}{2}$ "	14.02
1460D	14"	16"	16.60
1460F	22 $\frac{3}{4}$ "	24 $\frac{3}{4}$ "	18.55
1460H	28"	30"	21.05
1460J	33 $\frac{1}{4}$ "	35 $\frac{1}{4}$ "	22.80
1460K	40 $\frac{1}{4}$ "	42 $\frac{1}{4}$ "	24.60



FLOOR TYPE CABINETS & RACKS

Dimensions 20 $\frac{1}{4}$ " Wide, 16" Front to Back.
Blue gray wrinkle or platinum gray wrinkle 10% extra.

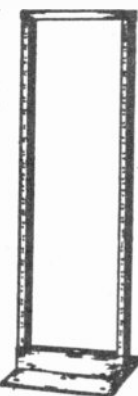
Type	Panel Space	Over-all height	Your Cost
1462B	61 $\frac{1}{4}$ "	64"	\$52.55
1462C	70"	72 $\frac{3}{4}$ "	54.20
1462E	80 $\frac{1}{2}$ "	83 $\frac{3}{4}$ "	57.55

STANDARD RELAY RACKS

This Relay Rack is ideal for test equipment, transmitters, sound equipment and laboratory work. Rigidly arc-welded for permanent alignment, jig-drilled and tapped 10-32 for standard panels. Finished in durable black wrinkle enamel. Over-all width, 20 $\frac{1}{8}$ ".

Type	Panel Space	Over-all Height	Your Cost
1466D	63"	69 $\frac{1}{4}$ "	\$24.55
1466F	70"	76 $\frac{1}{4}$ "	27.20
1466H	77"	83 $\frac{1}{4}$ "	30.00

Cup-Washers and Oval Head Screws for Mounting Panels on Racks Type 1421. A set of four 10-32x $\frac{1}{2}$ " N.P. Brass Oval Head Screws and Cup-Washers; to mount one Panel. Your Cost.....\$0.09



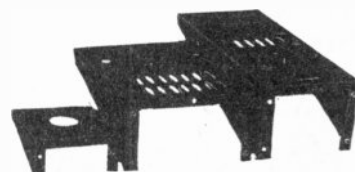
TRIANGULAR BRACKETS



These triangular brackets are made of 20 gauge steel. They are light but very strong.
Standard finish black wrinkle.

Type	Dimensions	Your Cost
1423B	5 $\frac{1}{2}$ x 4	\$0.27 Pr.
1423D	9 $\frac{1}{2}$ x 7 $\frac{1}{2}$	.35 Pr.
1423F	12 x 10	.56 Pr.

SOCKET OR COMPONENT BRACKET



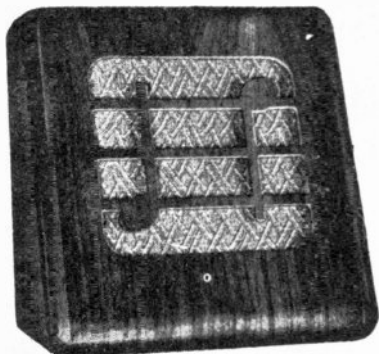
Standard finish black wrinkle.

Type	Dimensions	Your Cost
1418B	3 $\frac{1}{4}$ x 3 x 1 $\frac{1}{2}$	\$0.69
1418F	6 $\frac{3}{8}$ x 5 $\frac{3}{8}$ x 2 $\frac{3}{4}$	.92
1418G	9 $\frac{3}{8}$ x 4 $\frac{1}{8}$ x 3	.92

TEST EQUIPMENT SOLD ON EASY TIME PAYMENTS

BAFFLES AND CABINETS

DELUXE MUSIC BOX SPEAKER BAFFLES



Walnut Acoustic Enclosures

The distinctive design makes the cabinet extremely suitable for the richest room interiors. Sturdy Construction..... The "Music Box" is firmly assembled with inner glue-block construction. Attractive Acoustic-Cloth grille sets off the musical design of the cabinet.

Model AE-8 For 8" Speakers

Dimensions: 10½" high, 8¾" wide, 4" deep at top end.

Your Cost \$5.75

Model AE-10 For 10" Speakers

Dimensions: 11½" high, 11" wide, 5" deep at top end.

Your Cost \$6.25

Model AE-12 For 12" Speakers

Dimensions: 15½" high, 14" wide, 10" deep at top end.

Your Cost \$7.50

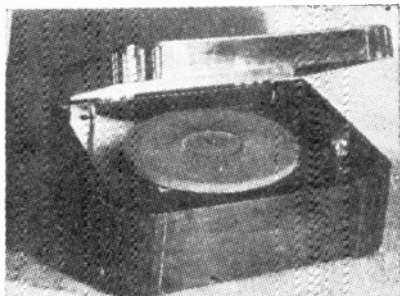
OPEN FACE MODEL BASE



Walnut Veneer—Strong, trim and good-looking.

Model OFW—Your Cost..... \$3.25

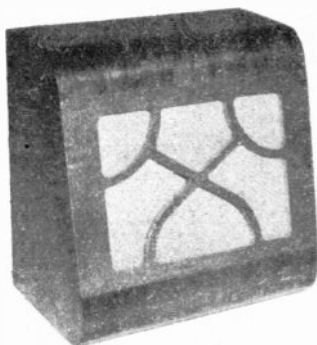
MAHOGANY CABINET



High Quality Birch, finished in polished mahogany, gives this Beautiful Record Player Cabinet unlimited sales appeal. Dimensions 14" x 13" x 6".

Model R-9 Walnut Finish - Your Cost. \$9.95

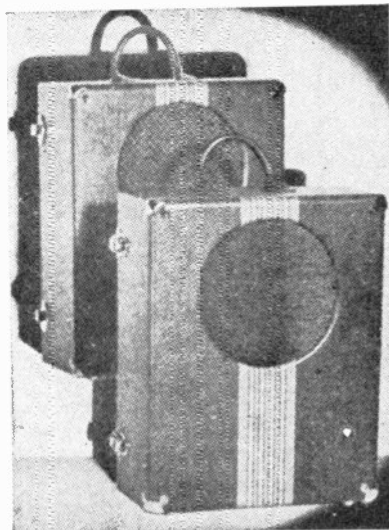
TWO-TONE WOODEN SPEAKER BAFFLES



Newly designed speaker baffle of striking elegance. Strongly made, with two different toned woods, giving an attractive appearance. Beautifully finished sloping front model, with grill cloth included, in four popular sizes.

No.	Your Cost
G56 for 5" or 6" speaker.....	\$3.00
G89 for 8" or 9" speaker.....	4.50
G1010 for 10" speaker.....	6.00
G1212 for 12" speaker.....	6.00

REINFORCED SPEAKER AND AMPLIFIER, PORTABLE CARRYING CASE



A carrying case designed to accommodate any type of amplifier. Finished beautifully, this carrying case has a sturdy leather handle for travelling purposes. Due to difficulty of obtaining cabinet we will supply styles not necessarily pictured above, should these not meet with your entire approval they may be returned.

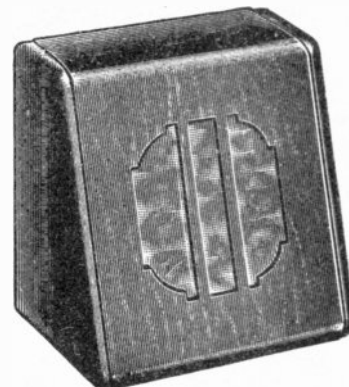
MODEL 304 for two 8" speakers and amplifier chassis 12" x 8" x 9". Approx. size 14½" wide x 12½" deep x 18" high.

Your Cost..... \$20.00

MODEL 305 for two 12" speakers. Approx. size 23" high x 15" deep x 18½" wide.

Your Cost..... \$23.00

WALNUT VENEER SPEAKER BAFFLES

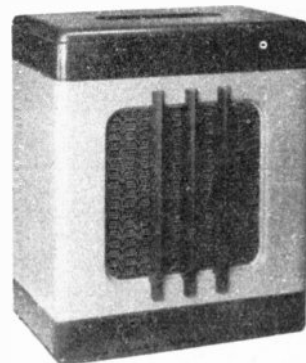


Economy Model

A truly deluxe speaker cabinet, made of walnut beautifully finished and reinforced throughout. Has slope front to give the proper directional effect to speaker.

No.	Your Cost
56 —For 5" or 6" Speaker.....	\$2.40
89 —For 8" or 9" Speaker.....	3.50
1010 —For 10" Speaker.....	4.50
1212 —For 12" Speaker.....	5.00

DELUXE SPEAKER CABINET



This cabinet design is strikingly modern with an attractive two tone finish in brown and buff. 21" High, 17" Wide, 8½" Deep with ½" in Back. Will take 12" to 15" Speaker.

Model WD17. Your Cost..... \$9.95

VM & WEBSTER CABINETS



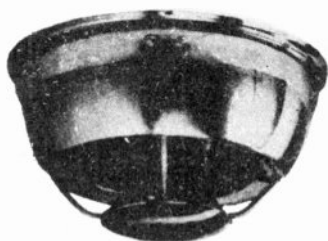
A beautiful table model cabinet designed specially for the famous new Webster & VM changers. Built from only the highest grade materials.

	Your Cost
Model VMC for VM changers.....	\$21.00
Model WEC for Webster changers.....	22.50

USE OUR ORDER BLANKS FOR FASTEST POSSIBLE SERVICE

SCIENTIFIC WALL BAFFLES

for NIGHT CLUBS
RAILWAY STATIONS
HOTELS



FLUSH MOUNTING CEILING BAFFLES

Uniform sound reproduction at 75 degree angle evenly in all directions. Prevents "dead spots" in sound distribution. Reduces "feed-back". Sturdy construction. Preventing rattling at high level.

FOR NIGHT CLUBS, HOTELS, RAILWAY STATIONS, ETC.

Model No.	Speaker Size	Material	Your Cost
BL8-A	8"	Aluminum	\$17.60
BL12-A	12"	Aluminum	21.60

FALSE CEILING BAFFLES

FOR LOW CEILINGS

An excellent baffle for very low false ceilings. Reproducing an excellent high and low frequency response. Constructed of 18 gauge or 20 gauge aluminum. (All hardware complete with each baffle). **Ideal for:** railroad cars, automatic phonographs, ETC.

Model No.	Speaker Size	Material	Your Cost
AL8-A	8"	Aluminum	\$11.20
AL12-A	12"	Aluminum	13.60



WALL TYPE DIRECTIONAL SPEAKER BAFFLES

Mounts flush to wall and its construction and finish will blend in any surroundings.

RECESSED WALL TYPE

Ideal baffle for sound installations where speakers are completely recessed in wall.

Model No.	Speaker Size	Material	Your Cost
WL8-A wall	8"	Aluminum	\$11.60
WL12-A wall	12"	Aluminum	14.00
HS8-A recessed	8"	Aluminum	10.40
HS12-A recessed	12"	Aluminum	11.20



SPEAKER BAFFLE BALL

- Combat Echo
- Suppress Feed-Back
- Distribute Sound Effectively and Efficiently

- Improve Tonal Quality
- Perfect Speaker Cone
- Loading Prevents Rattling at High Level

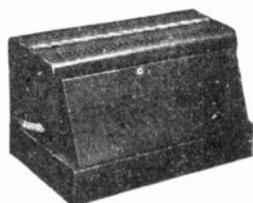
Baffle made of spun metal in 18 gauge aluminum. The answer to good sound coverage in unusually high ceilings where acoustics are poor. All hardware furnished complete for mounting speaker to housing.

Model No.	Speaker Size	Material	Your Cost
SR8-A	8"	Aluminum	\$22.60
SR12-A	12"	Aluminum	28.60



PAR-METAL CHASSIS

SLOPING FRONT AMPLIFIER CHASSIS

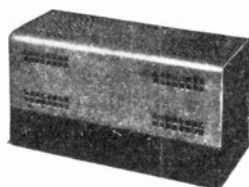


The latest trend in amplifier design.

The front panel is removable and protrudes 3" from the face of the screen cover. Complete with bottom plates. Finished in slate grey ripple enamel with red-stripe chrome finished mouldings and handles. Screen Cover 6 1/2" High.

Cat. No.	Chassis Size	Your Cost
F-10120	10 x 12 x 3"	\$ 7.88
F-10170	10 x 17 x 3"	9.13
F-13170	13 x 17 x 3"	10.18

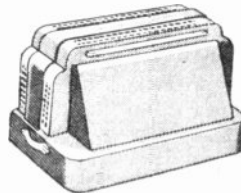
STANDARD AMPLIFIER CHASSIS



New Grill type ventilation. Chassis are stamped from one piece of cold rolled steel, with corners securely spot welded, and are drilled for bottom plates. Covers in slate grey and the chassis in black ripple enamel. Depth of Cover 6".

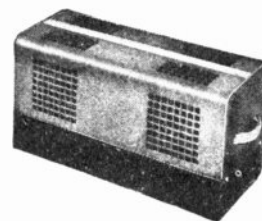
Cat. No.	Size	Your Cost
F-510	5 x 10 x 3"	\$3.11
F-615	6 x 14 x 3"	3.53
F-717	7 x 17 x 3"	4.36
F-1012	10 x 12 x 3"	4.36
F-1017	10 x 17 x 3"	5.27
F-1317	13 x 17 x 3"	6.23

STREAMLINED AMPLIFIER CHASSIS



Combines a sloping front panel and streamline top cover. The front panel is removable and extends 3" from the face of the screen top. Marine gray ripple finish with chrome metal trim. Front of chassis have rounded corners. Top Cover 6 1/2" high.

Cat. No.	Chassis Size	Your Cost
3931	10 x 17 x 3"	\$ 9.66
3932	13 x 17 x 3"	10.92



Desirable construction and design features.

Drilled for bottom plates. Ventilated. Screen cover in slate grey ripple enamel—handles in chrome with red striping. The chassis is black. Depth of Cover 6".

Cat. No.	Size	Your Cost
DF-510	5 x 10 x 3"	\$4.44
DF-615	6 x 14 x 3"	5.19
DF-717	7 x 17 x 3"	5.93
DF-1012	10 x 12 x 3"	5.93
DF-1017	10 x 17 x 3"	7.06

SPEAKERS & CABINETS



STROMBERG - CARLSON

The Stromberg-Carlson line of cone type permanent magnet reproducers using Alnico V magnets were designed for sound system and wired music applications. The light weight Alnico V magnets were selected from RMA series of standard magnets. The over-all decrease in weight of the reproducer removes many mounting hazards.

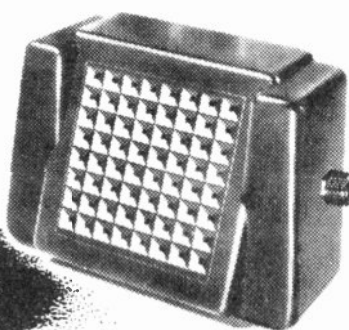
No.	Description	Magnet	Voice Coil Impedance	Capacity in Watts	Your Cost
75	8" "Light"	2.15 ounces	6-8	8	\$ 7.20
76	8" "Heavy"	4.64 ounces	6-8	10	9.60
77	12" "Light"	4.64 ounces	6-8	14	12.00
78	12" "Heavy"	6.8 ounces	6-8	17	12.00

The music you want where you want it!

CHECK THESE FEATURES:

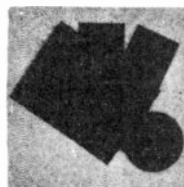
- ✓ RADIOLINK brings your favorite program to any part of the house—bedroom, kitchen, garden...
- ✓ RADIOLINK brings recorded music from your combination or electric phonograph to any part of the home...
- ✓ RADIOLINK has volume control and 3-way switch enabling you to listen in even when radio itself is not audible...
- ✓ RADIOLINK attaches easily to any radio, old or new, long or short wave, standard or FM.
- ✓ RADIOLINK is economical and trouble-free... no tubes to replace, no maintenance cost...
- ✓ RADIOLINK is available in rich walnut or beautiful ivory finishes... adds beauty to any room.

	List Price	Your Cost
Brown...	\$7.95	\$4.77
White...	8.45	5.07



Buy
RADIOLINK
FOR FULL RADIO ENJOYMENT

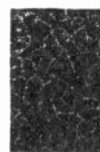
WALSCO SPEAKER CONE PATCHES



A quick and inexpensive means for patching tears and holes in speaker cones. Made of specially fabricated material and adhesive, which forms a permanent bond.

No.	Description	Your Cost
2553	—10 assorted patches.....	\$0.32

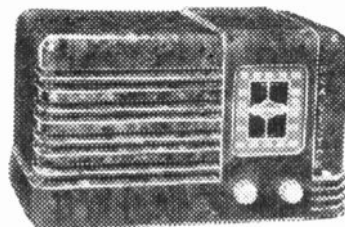
LEATHERETTE FABRIC



A black leatherette finish fabric for re-covering instrument cases.

No.	Your Cost
965—18" x 20".....	\$0.60
966—18" x 40".....	1.20
967—Any length (per yd.) 36" wide...	2.20

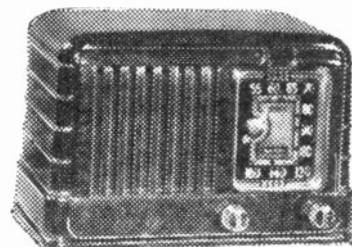
LITTLE NIPPER CABINET



Molded plastic cabinet designed to house the compact 5 tube Superheterodyne RCA Little Nipper Receiver. Dimensions 5 1/8" L. x 8 3/4" x 4 1/2". Walnut finish only.

No. S2755—List Price..... \$2.75

MASTER NIPPER CABINET



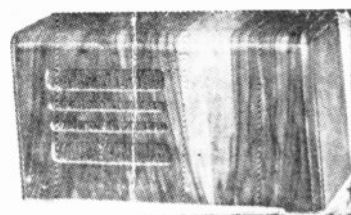
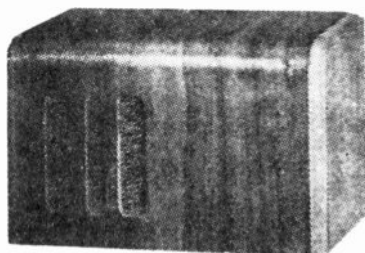
Plastic cabinet in modern design housing the RCA 5 tube Superheterodyne Master Nipper Receiver.

No. S2784—Walnut. List Price..... \$4.40

MODERN TABLE RADIO CABINETS

Well made Walnut veneer cabinets that are just right for replacement purposes. Three popular sizes that will enable the serviceman to take care of cabinet requirements on almost any AC-DC or small AC table model regardless of whether the original cabinet was plastic or wood.

Model	Description
R-1	—accommodates 4 tube Chassis. Outside Dimensions 9" L x 5 3/4" H x 4 3/4" D.
Your Cost	\$3.75
R-2	—accommodates 5 to 6 tube chassis. Outside Dimensions 13" L x 7 3/4" H x 6 1/2" D.
Your Cost	\$3.85
R-3	—accommodates 7 to 10 tube chassis. Outside Dimensions 17" L x 9 1/2" H x 8 3/4" D.
Your Cost	\$6.50



Utah High Fidelity

UTAH STANDARD FIDELITY PERMO — DYNAMIC SPEAKERS — COMPLETELY DUSTPROOFED — ALNICO V MAGNETS

The speakers listed on this page were designed especially for intercommunication, portable and battery set replacement and low power "Public Address" work, and also for multiple speaker applications where both quality and price are factors.

A feature of these speakers is the use of ALNICO V permanent Magnets which combine high efficiency with minimum space and weight factors.

UTAH PERMO-DYNAMIC SPEAKERS

Stock Number	Cone Housing Diameter	Magnet Weight	Coil Impedance	Coil Diameter	Normal Wattage	Peak Wattage	Your Cost
3PVA	3 1/2 inch	.68 Alnico V	3.2 ohms	9 16 inch	2.0	3.0	\$ 2.70
4PVA	4 inch	.68 Alnico V	3.2 ohms	9 16 inch	2.5	3.75	2.82
5PVA	5 inch	.68 Alnico V	3.2 ohms	9 16 inch	2.5	3.75	3.00
6PVC	6 inch	1.47 Alnico V	3.2 ohms	9 16 inch	2.5	3.75	3.84
8PVE	8 inch	2.15 Alnico V	3.2 ohms	3 1/4 inch	7.0	10.5	6.00
10PVH	10 inch	4.64 Alnico V	6.8 ohms	1 inch	9.0	13.5	10.80
12PVH	12 inch	4.64 Alnico V	6.8 ohms	1 inch	12.0	18.0	12.00

UTAH PUBLIC ADDRESS SPEAKERS

Stock Number	Cone Housing Diameter	Magnet Weight	Voice Coil Impedance	Voice Coil Diameter	Normal Wattage	Peak Wattage	Your Cost
6PVF	6 inch	3.16 Alnico V	6-8 ohms	3 1/4 inch	5.0	7.0	\$ 5.40
8PVJ	8 inch	6.80 Alnico V	6-8 ohms	1 inch	10.0	15.0	10.80
10PVJ	10 inch	6.80 Alnico V	6-8 ohms	1 inch	11.0	17.0	12.90
G12P	12 inch	46.0 Alnico V	6-8 ohms	1 1/4 inch	17.0	26.0	19.25

UTAH ELECTRO-DYNAMIC SPEAKERS

Stock Number	Cone Housing Diameter	Field Resistance Ohms	Voice Coil Diameter	Voice Coil Impedance	Your Cost
Q345	3 1/2 inch	450	9 16 inch	3.2 ohms	\$3.30
Q427	4 inch	3000	9 16 inch	3.2 ohms	3.36
Q445	4 inch	450	9 16 inch	3.2 ohms	3.36
Q510	5 inch	1000	9 16 inch	3.2 ohms	3.42
Q518	5 inch	1800 tapped at 300	9 16 inch	3.2 ohms	3.42
Q530	5 inch	2750	9 16 inch	3.2 ohms	3.42
Q545	5 inch	450	9 16 inch	3.2 ohms	3.42
Q610	6 inch	1000	3 1/4 inch	3.2 ohms	4.20
Q618	6 inch	1800 tapped at 300	3 1/4 inch	3.2 ohms	4.20
Q625	6 inch	2500	3 1/4 inch	3.2 ohms	4.20
Q645	6 inch	450	3 1/4 inch	3.2 ohms	4.20
Q810	8 inch	1000	3 1/4 inch	3.2 ohms	5.10
Q818	8 inch	1800 tapped at 300	3 1/4 inch	3.2 ohms	5.10
Q825	8 inch	2500	3 1/4 inch	3.2 ohms	5.10
Q1010	10 inch	1000	1 inch	3.4 ohms	6.60
Q1015	10 inch	1500	1 inch	3.4 ohms	6.60
Q1025	10 inch	2500	1 inch	3.4 ohms	6.60
Q1210	12 inch	1000	1 inch	3.4 ohms	8.10
Q1215	12 inch	1500	1 inch	3.4 ohms	8.10
Q1225	12 inch	2500	1 inch	3.4 ohms	8.10



HANDY SPEAKER ACCESSORIES

RADIO SERVICE CEMENT

"For Radio and Speaker Repairs"

Unexcelled as a general utility cement for bakelite, metal, glass or wood. Speaker cones, voice coils, spiders, loose tube bases, grid caps to glass and cementing parts to chassis, especially adaptable. Very fast drying. Supplied with brush.

No.	Your Cost
302. Service Cement. 2 oz.	\$0.40
304. Service Cement. 4 oz. ....	.72
308. Service Cement. 8 oz.	1.28

RADIO SERVICE SOLVENT "Cleans and Dissolves"

Specially prepared for loosening cement on cones, etc. Good cleaner for volume controls.

No.	Your Cost
312. Service Solvent. 2 oz.	\$0.32
314. Service Solvent. 4 oz. ....	.48
318. Service Solvent. 8 oz. ....	.68



SPEAKER REPAIR CEMENT "In a Handy Tube"

General purpose water-proof cement used in repair of parts, cabinets, etc.

No. 342. Your Cost ...	\$0.34
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G-C CEMENT AND SOLVENT KIT

Kit consists of 1 bottle of our famous Service Cement, and 1 bottle of Service Solvent. Handy Kit to carry with you.



No. 343	\$0.52
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G-C GRILLE CLOTH FABRIC CEMENT

For cementing grille cloth, aeroplane luggage fabric, leather, etc. to wood radio cases, test equipment and cabinets.



No.	Your Cost
38-4 4 oz.	\$0.40



SPEAKER GRILLE CLOTH

An exceptionally fine quality ornamental cloth for use behind speaker grilles. Brown color will match any cabinet and make your set look like new.

W	L		Your Cost
17"	x 12"		\$.50
17"	x 24"		1.00
17"	x 36"		1.50
42"	x 36"		4.20

SPEAKER REPAIR SERVICE

All kinds of speaker repairs done promptly.

*Guaranteed Service by *Expert Technicians at *Reasonable Prices
Send us your problems and save your time.

APPROXIMATE PRICES

Size	New cone and V.C. on		*Repairs to Field	Repairs to V.C. or cone only.
	Dynamic	P.M.		
4" or smaller.	\$2.00-2.50	\$2.00-2.50	\$2.25-2.75	
5"	2.25-2.75	2.25-2.75	2.25-2.75	
6"	2.50-3.00	2.75-3.25	2.25-2.75	
7"	3.50-4.00	3.75-4.25	2.25-2.75	
8"	3.50-4.00	4.25-4.75	2.25-2.75	
10"	4.25-5.00	4.25-5.25	2.75-3.75	
12"	7.00-8.00	7.00-8.00	2.75-3.75	
15"	11.00-13.00	13.00-15.00	3.25-4.00	

*Price of repairs of Field Coil, do not include the price of New F. Coil if required to be changed.

LOWEST PRICES — HIGHEST QUALITY — BEST SERVICE

Jensen

FULL RANGE SOUND EQUIPMENT

Known all over the world for predominating high quality

SWEDISH STEEL SPEAKER SHIMS



No. 701



No. 702

"Simplify speaker repairs"

Use shims for centering voice coils

No. 701. Kit of 16 color coded shims, .004 to .01 inches. Your Cost **\$0.52**

FIBRELOID SHIMS

No. 702. Kit of 20 shims, 5 sizes .005 to .015 inches. Your Cost **\$0.48**

JENSEN TECHNICAL MONOGRAPHS



Monograph No. 1—"Loud Speaker Frequency—Response Measurements."

Monograph No. 2—"Impedance Matching and Power Distribution."

Monograph No. 3—"Frequency Range in Music Reproduction."

Monograph No. 4—"The Effective Reproduction of Speech."

Monograph No. 5—"Horn-type Loud Speakers."

Your Cost Each..... **\$0.35**

'Standard' SPEAKERS.. for General Application

Exceptionally good speakers for use in radio receivers, low power public address and the like. Not to be confused with many cheaply made inefficient speakers. All speakers are completely dust-proofed and all are supplied less transformer and with facilities permitting easy attachment of transformers. Mounting dimensions are standard R.M.A. All field coil models have bucking coil.

ELECTRO DYNAMIC SPEAKERS

Size	Model	Input Impedance	Watts	Field Coil		Your Cost
				Resistance	Watts	
4"	H4-S-450	4	1 1/2	450	4.5	\$ 3.75
	H4-S-1000	4	1 1/2	1000	4.5	
	H4-S-3000	4	1 1/2	3000	4.5	
5"	H5S-450	3-4	2.5	450	4.5	3.84
	H5S-1000	3-4	2.5	1000	4.5	
	H5S-1800	3-4	2.5	1800	4.5	
	H5S-2750	3-4	2.5	2750	4.5	
6"	H6S-1000	3-4	3	1000	4.5	4.20
	H6S-1800	3-4	3	1800	4.5	
	H6S-2750	3-4	3	2750	4.5	
	D6RS-1000	3-4	4.5	1000	6	6.30
	D6RS-1800	3-4	4.5	1800	6	
	D6RS-2500	3-4	4.5	2500	6	
8"	F8RS-1000	3-4	4	1000	5	6.00
	F8RS-1800	3-4	4	1800	5	
	F8RS-2500	3-4	4	2500	5	
10"	F10S-1500	3-4	9	1500	8.5	10.30
	F10S-2500	3-4	9	2500	8.5	10.50
12"	F12S-1500	3-4	10	1500	8.5	11.80
	F12S-2500	3-4	10	2500	8.5	12.00

PERMANENT MAGNET SPEAKER VOICE COIL

Size	Model	Impedance	Watts	Weight of Magnet	Your Cost
4"	P4X	3-4	2	.68 oz.	\$2.92
5"	P5X	3-4	2.5	.68 oz.	3.16
6"	P6V	3-4	3	1.47 oz.	4.41
	P6T	3-4	4	3.16 oz.	5.79
8"	P8V	3-4	6	1.47 oz.	5.40
10"	P10T	6-8	8	3.16 oz.	7.98
12"	P12T	6-8	9	3.16 oz.	8.82



These are heavy duty, highly efficient speakers and are widely used for Public Address and high quality Radio and Phonograph applications. All Speakers are designed so that they may be used in the Jensen BASS REFLEX Enclosures and Cabinets. All field coil models have bucking coils. Facilities are provided for easily attaching transformers. Speakers are supplied without transformers attached unless specifically ordered.

ELECTRO DYNAMIC SPEAKERS

Size	Model	Voice Coil		Field Resis.	Coil Watts	Your Cost
		Impedance	Watts			
12"	F12Q	8	13	2500	11	\$16.90
	F12N	8	15	5300	17	29.60
15"	F15Q	8	14	2500	11	23.00
	F15N	8	17	5300	17	35.60

PERMANENT MAGNET SPEAKERS

Size	Model	Voice Coil		Your Cost
		Impedance	Watts	
8"	P8R	6-8	9	\$12.40
10"	P10R	6-8	10	15.00
12"	P12R	6-8	12	15.80
	P12Q	8	13	22.50
	P12N	8	15	39.70
15"	P15Q	8	14	30.00
	P15N	8	17	44.60

CANADIAN ELECTRICAL MEANS EVERYTHING IN RADIO

Jensen Bass Reflex REPRODUCERS



COAXIAL-SPEAKERS

The four "JENSEN" coaxial speakers shown here represent a wide range of performance and price and are recommended for FM-AM receivers, reproducing of transcriptions and commercial phonograph records, recording and broadcast studio monitoring.

Catalogue with complete information sent on request.

Size	Model	Max. Input Watts	Freq. Range	Input Imped. Ohms	Your Cost
12"	JCP-40	10	50-12,000 cps	6-8	\$30.00
15"	JHP-52	14	50-15,000 cps	500-600	72.00
15"	JAP-60	17	50-15,000 cps	500-600	85.00
15"	HNP-51	25	50-15,000 cps	500-600	125.00

VOLUME CONTROL

"L Pad" type volume control, which is highly satisfactory for use in voice coil circuits. Ideal for use with coaxial speakers. Complete with pointer knob and escutcheon.

ST-606—For 16 ohm VC 15 Watt Rating..... Your Cost \$2.90

COMPLETE JENSEN CATALOGUE SENT ON REQUEST.
ALL JENSEN PRODUCTS AVAILABLE FROM US.

5 WATT "SPEECH MASTERS" FOR DESK AND PANEL

The truly remarkable performance of these new "Speech Masters" is due to the Peri-Dynamic principle and special radiating system. Normal room level requires less than 0.5 watt input; maximum rating of 5 watts on speech insures **dependability**. Speech reproduction is especially clear, crisp, intelligible . . . yet if required, music can be reproduced with better quality than that of the average "midget" radio. Extra sturdy construction, overall mechanical protection, double dustproofing, beautiful streamlined design, exceptional acoustic performance . . . all these combine to set the "Speech Masters" entirely apart from conventional speakers.

Desk Type "Speech-Master." Permanent Magnet design. For desk or wall mounting. Complete with "tilt" adjustment and base. Double dust-proofed, fully enclosed and protected. Internal mounting bracket for $\frac{1}{2}$ " x $\frac{1}{2}$ " transformer. R.C. cord $\frac{36}{16}$ " long. Height $6\frac{3}{4}$ "; depth $5\frac{1}{8}$ "; diameter 5". Shipping wt., $5\frac{1}{4}$ lbs. Attractive hammered gray finish with satin chrome trim.
No. ST-590 (4 ohm v.c.) Your Cost \$11.30



Panel Type "Speech-Master." Similar to AP-10 less base and swivel bracket. Has clearance eyelets for mtg. screws. Mounts in 4-27/64" cut-out, extends $4\frac{1}{2}$ " inside panel (from front surface). Screws and drilling template included. Shipping weight, $3\frac{3}{4}$ lbs.

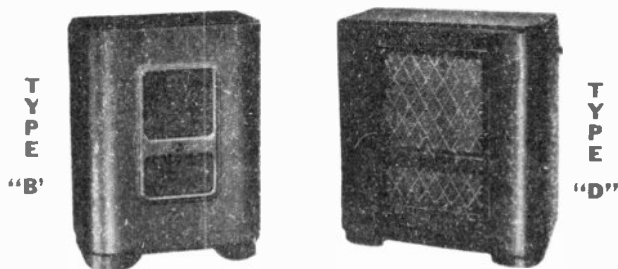
Your Cost
No. ST-592. (4 ohm v.c.) \$9.20

BASS REFLEX REPRODUCERS

These new "JENSEN" cabinets supersede all previous designs and are highly recommended for use with extension speakers in homes, hotels, theatres, public halls, etc.

TYPE "D" (DE LUXE LINE) incorporates the "BASS REFLEX" principle. Well constructed and finish striped Satin veneer.

TYPE "B" also incorporates the "BASS REFLEX" principle. For those who desire inexpensive but durably built enclosures. Well constructed of impregnated composition board and finished in hammered brown lacquer.



TYPE "D"

		DIMENSIONS			Your Cost
Model	Speaker—Size	Height	Width	Depth	
D-151	15"	27 $\frac{7}{8}$ "	31 $\frac{3}{8}$ "	13 $\frac{3}{8}$ "	\$77.50

TYPE "B"

B-81	8"	24"	18"	9 $\frac{1}{4}$ "	\$31.50
B-121	12"	27"	24 $\frac{3}{4}$ "	13 $\frac{1}{2}$ "	44.50

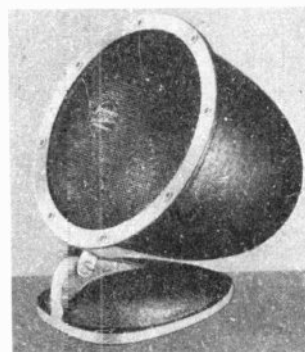
Phone Communication:

For amateur, commercial, police, aviation.

C W Telegraph: Aids selectivity, helps signals over-ride QRM and QRN.

Intercom and PA: For modern Intercom, Paging and PA at moderate levels. Good "talk-back" performance.

Short-Wave Listening: Better than your regular speaker. Can be used on any receiver.



CANADIAN ELECTRICAL SUPPLY CO. LTD. MONTREAL - TORONTO

Jensen PHONOGRAPH NEEDLES



THE ROYAL JEWEL

A phono-graph needle with a natural sapphire tip and original Jensen spring construction. Famous for long life, it minimizes surface hiss and cuts record wear. Attractively packed.

No. 25 Royal Jewel \$2.50
List Price..... 1.50
Your Cost.....

THE CLASSIC

Designed for brilliant reproduction of instrumental and vocal recordings. Its new spring construction absorbs "hiss" and scratch to deliver a stradivarius tone.

No. 15 Classic \$1.50
List Price..... .90
Your Cost.....

THE CONCERT

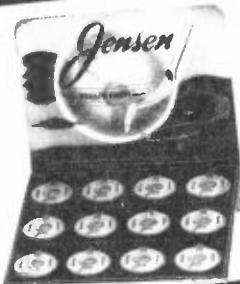
Most popular needle at the price. Full tonal range and long wearing qualities assured. Spring action preserves record surface.

No. 10 Concert \$1.00
List Price..... .60
Your Cost.....

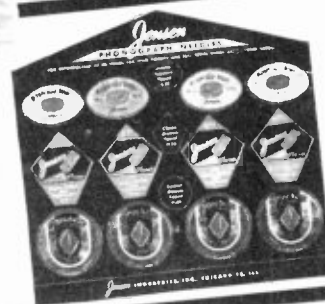
THE SWEET

An outstanding needle at low price. Particularly designed for popular music, it is the choice of 'teen age trade. Remarkable tonal qualities.

No. 75 Sweet \$0.75
List Price..... .45
Your Cost.....



Jensen COUNTER DISPLAYS



ROYAL JEWEL DISPLAY

Colourful, point of sale display with 12 genuine sapphire needles. Attractive back-board printed in full colour.

No. 25D—Display \$18.00
Your Cost.....

CONCERT DISPLAY

Counter display holding 12 individually packed concert needles. Just the thing to attract a buyer's attention to this line of needles.

No. 10D—Display \$7.20
Your Cost.....

SWEET DISPLAY

Sweet Display card is a colourful green and black holder for 24 individual packets. Can be hung on wall, or used with easel.

No. 75D—Display \$10.80
Your Cost.....

Combination display card. Holds 12 packages of Jensen needles. 4 each of Royal Jewel, Classic, Concert. Advantages for showing several needles in limited space.

No. 444—Your Cost \$12.00



MERITONE—BEST BY TEST

This extremely enticing counter display for Meritone needles can hardly fail to catch the eye of any buyer.

Swedish steel, machine turned needles. Each needle plays 12 or more records with maximum fidelity. Two kinds. Super for lightweight pickups. Supermatic for heavier pickups and louder volume.

Super Meritone Package

18S2 Super Meritone (60 pkgs on display)
18S3 Super Meritone, Plastic Box (135
Needles per box)
Supermatic Package
18SM.1. Supermatic (100 pkgs. on card)

	Your Cost	List Price
per Pkg.	\$0.15	\$0.25
	.90	1.50
	.15	.25

Coin Machine Sales Kit

Handy pocket holder, with note pad. Supplied with 100 coin machine needles on interchangeable chine needles on interchangeable card units of 10 needles. Card has space for needle playing history.

No. 10J—Your Cost \$0.35

SERVICEMAN'S KIT

Compact Kit for the pocket. A real sales help in demonstrating needles on the job. Holds 3 Royal Jewel and 3 Classic needles.

No. 612—Kit Your Cost \$7.20



for the world's
finest music



SOUND
RECORDING
EQUIPMENT

WORLD'S LARGEST MANUFACTURERS OF RECORDING EQUIPMENT AND DISCS

PRESTO MODEL K RECORDER

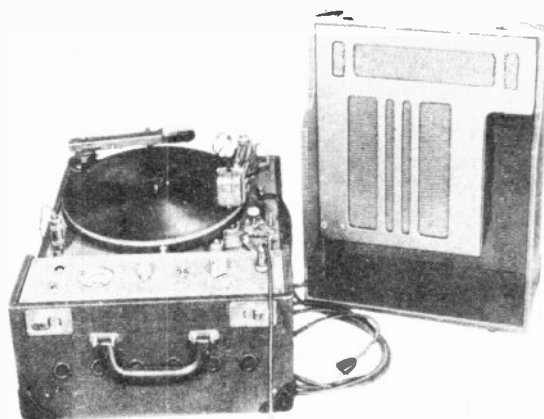
The Presto Model K is a portable sound recorder, record player and public address system complete in a single carrying case. Exceptionally light and compact.

The Model K records 15 minutes continuously at 33 $\frac{1}{3}$ r.p.m. on one side of a 13 $\frac{1}{4}$ " disc. It may be connected to any home radio set to record complete radio programs. It also makes 6, 8, 10 and 12 inch records, and plays all makes of phonograph records. As a voice amplifying system it will serve audiences of about 500 persons.

SPECIFICATIONS:

Although it is the lowest priced complete Presto recorder, it contains many valuable features of the more expensive instruments such as:

1. A magnetic cutting head and pickup, the design used in the highest grade equipment.
2. A full sized, 6 tube amplifier having push-pull triodes in the power stage.
3. A high frequency equalizer for 33 $\frac{1}{3}$ r.p.m. recording and a tone control for suppressing needle scratch when commercial records are played.
4. A safety cam lever for lowering the cutting head to prevent accidental damage to sapphire needles.
5. A detachable dynamic loudspeaker which may be operated at any desired distance from the recorder.
6. A cutter feed mechanism located beneath the turntable where it is protected from dust or accidental damage.
7. Provision for quick change from cutting outside-in to inside-out.
8. The exclusive Presto rubber-tired turntable driven directly by a pulley on the motor shaft, a drive system that eliminates rubber pulleys and belts which are subject to rapid wear. Turntable speed may be changed in 5 seconds from 78 to 33 $\frac{1}{3}$ r.p.m. by removing a brass pulley on the motor shaft.



These features, not found in any other low-priced recorder, enable the user to make high quality recordings, consistently. They simplify the operation of the instrument for non-technical owners and reduce operating costs by preventing spoilage of discs and needles. As a result of its excellent performance, more Presto Model K recorders are now used by schools, industrial concerns and in the home than any other recorder in a similar price range.

Model K—Complete Recorder less Microphone and Stand.

60 Cycle—Your Cost..... \$590.00

25 Cycle—Your Cost..... Price on application

PRESTO DISCS AND NEEDLES FOR COMMERCIAL, EDUCATIONAL AND HOME RECORDING

All Presto discs may be cut on both sides. Each disc is labeled and enclosed in an individual envelope. Playing time per side for various sizes is as follows.

6"—1 minute
8"—2 minutes
10"—3.5 minutes
12"—4.5 minutes
16"—15 minutes (33 $\frac{1}{3}$ r.p.m.)

PRESTO GREEN SEAL DISCS Aluminum Base

Type	Size	Thick- ness	Your Ea.	Cost Box 30
611-A	12"	.052"	\$ 2.00	\$ 1.60
616-A	16"	.056"	3.75	3.00

PRESTO ORANGE SEAL DISCS Medium Aluminum Base

Type	Size	Thick- ness	Your Ea.	Cost Box 10
306-A	6 $\frac{1}{2}$ "	.036"	\$.50	\$.40
308-A	8"	.036"	.75	.60
310-A	10"	.036"	1.00	.80
312-A	12"	.036"	1.50	1.20

MONOGRAM DISCS Composition Base

Type	Size	Thick- ness	Your Ea.	Cost Box 10
706-A	6"	.050"	\$.30	\$.20
708-A	8"	.050"	.45	.35
710-A	10"	.050"	.65	.50
712-A	12"	.050"	.90	.70
716-A	16"	.050"	1.35	1.50

CUTTING NEEDLES

PRESTO SAPPHIRE CUTTING NEEDLES

Type	Description	Your Cost
320-A	Short Sapphire Cutting Needles.....	\$ 6.72
321-A	Long Sapphire Cutting Needles.....	6.72

PRESTO STELLITE CUTTING NEEDLES

Stellite needles may be resharpened.

Type	Description	Your Cost
330-A	Short Stellite Cutting Needles.....	\$2.50
331-A	Long Stellite Cutting Needles.....	2.50
	In lots of six.....	2.00

PRESTO STEEL CUTTING NEEDLES

Presto Steel cutting needles are recommended only for home recording. These needles cut very quietly but their life is limited to about one half hour of service, after which they must be replaced.

Type	Description	Your Cost
350-A	Steel cutting needle SHORT, Pkg. of 3.....	\$ 1.25
	In lots of six pkgs.....	1.00

PLAYBACK NEEDLES

PRESTO SAPPHIRE PLAYING NEEDLES

A semi-permanent playing needle giving an average of 500 hours of service if used only on Presto recording and vinylite pressing.

Type	Description	Your Cost
420-A	Sapphire Playing Needle.....	\$ 2.50
	In lots of six.....	2.00

PRESTO STEEL PLAYING NEEDLES

A carefully shaped, shadowgraph inspected, playing needle, recommended for general use.

Type	Description	Your Cost
440-A	Red Shank Steel Playing Needle—(Pkg. of 25 needles).....	\$.50
440-B	Red Shank Steel Playing Needle—(Carton—40 Pkgs. of 25 needles) thousand.....	10.00



EVERYTHING WE SELL IS GUARANTEED

★ RECORDISC RECORDING ACCESSORIES ★

**QUALITY NEEDLES
AT REASONABLE
PRICES FOR
DISCERNING
BUYERS**



STEEL STYLUS
Chrome Plated Shank
DESIGNED FOR
PERFECT
HOME
RECORDING
List Price..... \$1.35
Your Cost..... .80



**HAND LAPPED
STEEL**
Carefully hand lapped for
greater fidelity. Packed one
to the protective card.
List Price..... \$0.70
Your Cost..... .40

**FREE! BEAUTIFUL
METAL DISPLAY
WITH THE NEW
SALES PACKAGE.
WRITE FOR
DETAILS**



SPECIAL QX-5
Unbeatable for
tonal reproduction
and long life. Precision
made for those
who seek a fine
but not fragile tip.
List Price... \$1.00
Your Cost... .60



STELLITE STYLUS
Carefully machined of
special alloy. These needles
produce excellent results.
Recommended for less ex-
perienced operators.
List Price..... \$2.65
Your Cost..... 1.60

**RECORDING
BLANKS FOR HIGH
QUALITY
AND GOOD
TONE**



SAPPHIRE STYLUS
Semi professional, speci-
ally lapped sapphire point
cuts clean groove with
lowest surface noise. Can
be used for 10 hours of
recording, and resharpened.
Individually boxed.
List Price..... \$8.65
Your Cost..... 5.20



PHONOGRAPH AND TRANSCRIPTION NEEDLES

SAPPHIRE PHONOGRAPH NEEDLE

High fidelity; bell-like clarity, greater
listening enjoyment, uniform performance
throughout playing life and less wear on the
record surface. Can be repeatedly
sharpened. 7,000 plays.
List Price..... \$3.35
Your Cost..... 2.00

CORONET PHONOGRAPH NEEDLE

Clear, clean, brilliant reproduction. Non-
corrosive tip. May be used on any type of
phonograph-electrical or mechanical. 3000
plays.
List Price..... \$1.35
Your Cost..... .80



IMPERIAL

Provides full tonal range, less scratch and
has minimum needle talk and longer record
life. Uniformly excellent in quality. 5,000
plays.
List Price..... \$2.00
Your Cost..... 1.20



SHADOWGRAPH TRANSCRIPTION NEEDLE

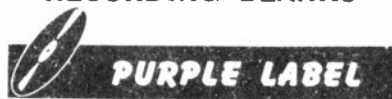
Wide frequency response and unusual
tonal brilliance. 25 to a packet.
List Price..... \$0.35
Your Cost..... .20

RECORDING BLANKS



BOND BASE

Designed primarily for the home recording
fan. Admirationally suited to the average type of
amateur transcription. Heavy, firm and with a
thick compo base. Professional nitrate coated.
Orange Label..... 6 1/2" 8" 10"
Your Cost..... \$0.15 \$0.25 \$0.35
Pkg. of 10..... .13 .22 .31



LIGHTWEIGHT ALUMINUM

A new lighter-weight aluminum base, at a
low price. Suitable for all amateur recordings.
In three popular sizes. Good quality repro-
ductions.
Purple Label..... 6 1/2" 8" 10"
Your Cost..... \$0.20 \$0.30 \$0.45
Pkg. of 10..... .18 .27 .40



ALUMINUM BASE

Made on heavy .021 aluminum. High
fidelity reproduction over wide frequency
ranges. Comparable in quality to those used
by professional recording studios. Professional
nitrate coated.
Red Label..... 8" 10" 12"
Your Cost..... \$0.30 \$0.40 \$0.80
Pkg. of 10..... .27 .36 .72

ARISTROCAT SAPPHIRE

by
**ROGERS
MAJESTIC**



Use this gliding Jewel
Phonograph needle for
less record wear, and
better reproduction.
The specially designed
spring shank gives a
smooth gentle action.
Over 10,000 plays to
each needle.
Individual packing.
List Price..... \$ 2.00
Each..... 1.20
Display of 6.....
List Price..... 12.00
Your Cost..... 7.20

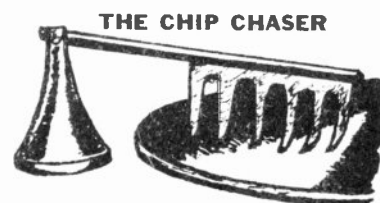
TECHNIQUES OF RECORDING



by
**F. H. Goldsmith
and V. G. Geisel**
Contains all the
necessary information
on how to make
good records. Pro-
fusely illustrated,
this book will teach
you how to get the
best results your
recording equip-
ment can give
Your Cost \$1.15

A SOUND-RECORDING "MUST"

128 pages on materials and technique
in simple language.
"How to Make Good Recordings"
Your Cost..... \$1.50



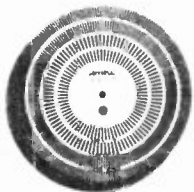
THE CHIP CHASER

Invaluable for use with all disc recorders.
The Chip Chaser does exactly as its name
implies. It keeps the cutting arm free of threads.
Cannot scratch or in any way impair the re-
cording.
List Price..... \$2.10
Your Cost..... 1.25

RECORDING

SUPPLIES & ACCESSORIES

UNIVERSAL STROBOSCOPE



Pitch and tempo can be obtained only when phonograph turntable speed is exact.

For speeds of 33½ RPM and 78 RPM under lights of 25, 50 and 60 Cycle current. Disc is 6" in Diameter. Turntable actually can

be on any current, AC or DC or mechanically driven.

No. A-176—Your Cost..... \$0.20

G-C RECORD CLEANING PAD

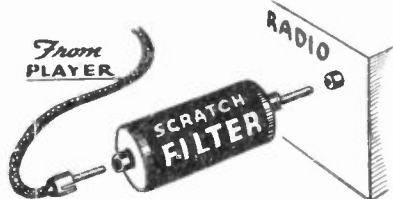


For all who use records, this specially treated pad is necessary to clean and remove dust and accumulation from records, without harming them. You can sell record users

one of these pads.

No.	Your Cost
1290—Size 4" x 4".....	\$0.20
1291—Size 6" x 6".....	.36
1291-D—Display 12 No. 1291.	4.32

NEW PHONO SCRATCH FILTER TRY IT YOURSELF! IMPROVE RECORD TONE!



The Tru-Phonic Record Scratch Filter is inserted between the record player and the radio or amplifier. Remove the record player plug from the radio or amplifier and insert it into the filter. The plug end of the filter now goes into the "phono-jack" of the radio or amplifier.

Scratch Filter—Your Cost... \$0.98

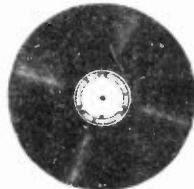
Recordio Discs

THE IDEAL DISCS for ALL HOME RECORDINGS

Quality discs make quality recordings. Recordio Discs are made to give the finest results and are designed specifically for use on Recordio Home Recorders. The discs come in three convenient types, and sizes for every kind of home recording.



"A" Series



"D" Series

"A" SERIES—FIBRE DISC

Lightweight, inexpensive disc, ideal for testing voices, talking letters and casual recordings. In 6½" and 8". Brightly coloured.

	List Pk. of 6	Your Cost Pk. of 6
6½".....	\$1.00	\$0.67
8".....	1.65	1.10

"D" SERIES—BLUE LABEL

Lightweight Aluminum Disc

High fidelity reproduction, long playback life, and low noise level characterize its excellent reproduction. Lightweight aluminum disc. 6½", 8", and 10" size.

	List Pk. of 6	Your Cost Pk. of 6
6½".....	\$2.40	\$1.60
8".....	3.30	2.20
10".....	4.80	3.20

"G" SERIES GOLD LABEL

Heavy Aluminum Disc

A new professional type heavy aluminum disc. Mirror finish in jet black. Heavy aluminum base and special coating preserve playback fidelity indefinitely. Available in 6½", 8", and 10".

	List Ea.	Net Ea.
6½"—Your Cost.....	\$0.45	\$0.30
8"—Your Cost.....	.60	.40
10"—Your Cost.....	.90	.60

RECORDING TIME

	78 RPM	33½ RPM
6½".....	2 mins.	4½ mins.
8".....	3 mins.	7 mins.
10".....	4½ mins.	11 mins.

D61B CONSTANT VELOCITY FREQUENCY RECORD TECHNICAL DATA



A 12-inch Recording at 78 RPM. Recorded on one side. Disc is "pressed" in the new high grade flexible recording stock. (Will not break in shipment or handling.) Recorded in three parts.

(1) The first section is a continuously rising tone of 50 to 10,000 cycles per second. Frequencies are voice announced in 15 "breaks." The range of frequencies is composed of three consecutive steps recorded at Constant

Velocity as follows: 50 to 200 c.p.s. at + 7 DB, 200 to 500 c.p.s. at + 14 DB and 500 to 10,000 c.p.s. at + 21 DB.

(2) A second section consists of a 1,000 cycle tone recorded in steps of 2 DB from + 8 to + 18.

(3) The final section consists of a 400 cycle tone recorded at + 18 DB. Zero reference is established at an arbitrary level.

D61B FREQUENCY RECORD with Data Sheet.

Your Cost \$2.79

G-C REK-O-DOPE "New All-Purpose Record Compound"



Cleans—Lubricates—Hardens
Renews old records and preserves new records and recordings. It improves reproduction as it removes all dirt and loose particles, lubricates the surface and hardens the grooves. Records treated with

G-C REK-O-DOPE will give better tone, and will last longer.

No. 126-2—2 oz. bottle..... Your Cost \$0.40

RECORD-TURNTABLE FELT

"Ready Cut Pieces"



Replace worn out and "friction-less" felt on record turntable. You or your customers cannot

obtain good recordings or reproductions unless the record is held firmly in place on the turntable. Keep a supply of this special felt on hand for that extra profit job. Pieces cut round, center hole punched.

No.	Size	Your Cost
No. 1292—77/8" diam.....		\$0.32
No. 1293—97/8" diam.....		.54
No. 1294—117/8" diam.....		.56
No. 1295—157/8" diam. (Broadcast size).....		.96

PHONO-TURNTABLE MOTOR AND GEAR LUBRICANT

"Made with Graphite"



This is specially formulated so that the lubricant clings to the surface of phonograph parts. Eliminate trouble on phono repairs by using the best.

No.	Tube	Your Cost
1223—		\$0.40
1223D—Display—12 tubes		4.80

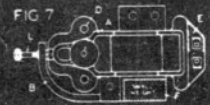
PHONO-TURNTABLE Rubber Replacement Drives



Exact duplicates of popular friction-type phono turntable drives. Increase efficiency and prevent slipping by replacing worn rubber drives. Use Rubber to Metal Cement for cementing rubber to rim.

No.	Tube	Your Cost
16—General Industries RX-LX Motors.....		\$0.20
17—Alliance Model 80 and Motorola.....		.20
18—R.C.A.....		.12
19—Philco, R.C.A., etc.....		.12
20E Detrola.....		.32

REPLACEMENT CARTRIDGES SCREWS & ACCESSORIES



RCA VICTOR CRYSTAL CARTRIDGE DATA

MODEL	CRYSTAL CARTRIDGE	MODEL	CRYSTAL CARTRIDGE
960001-4	39851	V-4A	38610
960260-2	70338	V-4X	S-3461
R-93C	31050	V-5-1	38610
R-93E	31050	V-5A	38610
R-94B	31156	V-14	S-3461
R-97	38610	V-16	S-3693
RP-140	33905	V-26	S-3461
RP-152E	37158	V-84B	S-3693
RP-158	38610	VA15	37158
RP-160C	39550	VA22	33905
RP-178	72551	VA23	37158
V-1	33122	VA34	70338
V-2	31156	VE20	S-3553
V-3	33122	VE22	S-3553
V-3A	S-3405	VE66D	70332
V-4	34307		

ASTATIC NEEDLE SCREWS

No.	Thread Size	Length	Type	Used On
3205	1-56	5/8"	Thumb	Any "B" Cartridge
3207	1-56	1 1/8"	Thumb	Any "B" Cartridge
3226	1-56	1 1/4"	Thumb	Any "B" Cartridge
3267	2-64	1 1/4"	Thumb	401A or any "L" Cartridges
3258	2-64	1 1/4"	Thumb	{ X26, X29A and C42 Cutting Heads }
				{ M22 and "L" Cartridges }
3572	2-64	5/8"	Thumb	Any "L" Cartridge
3579	2-64	1 1/8"	Thumb	M41 Cutting Head and any "L" Cartridge
3583	2-64	1 3/8"	Thumb	Any "L" Cartridge
3530	2-64	1 3/8"	Headless	Any "L" Cartridge

PHONOGRAPH NEEDLES AND STYLUS SET SCREWS

Here's the hard-to-get replacement set screws for pickup arms and recording heads! Specially made round head, hard machine screws. Buy a kit to have all 8 sizes.



No.	Your Cost
1052 —10 Assorted Stylus Screws.....	\$1.20
1053 —100 Assorted Stylus Screws.....	8.00
P1 —for Shure Bros. No. 30-132.....	.08
P2 —for Astatic No. 3258; RCA No. 37045; Webster Electric No. P9564-1.....	.08
P3 —for Astatic No. 3207 and 3205; Stromberg-Carlson SD-64 and SD-149; Universal No. 3207; Webster No. 26A2108.....	.08
P4 —for Rek-O-Kut Recorder Cutter No. MG625, and No. 8-S; Webster Co. No. 26A2142.....	.12
P5 —for RCA No. 34432.....	.12
P6 —for RCA Nos. 33974, 3811, 33529 31160, 12539.....	.08
P7 —for Webster Electric No. P4819-2.....	.12
P8 —for Shure Bros. No. 30-76.....	.12

G-C Phono Turntable Spring



Needed by all Servicemen. An assortment of the most popular type Phono-Turntable Springs. Assortments contain springs used by RCA, Philco, Seeburg, New Products, Oak, Zenith, and many others. Two assortments, one of smaller size springs and the other of larger types.

No. 6480E —Env. 10 small size phono springs.....	Your Cost \$0.32
No. 6481E —Env. 8 larger size phono springs.....	.32

G-C Phono-Needle Cup

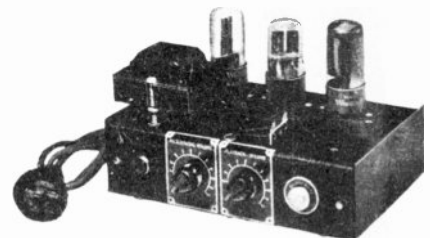


Standard size bakelite molded replacement phono-needle cup.

Walnut Finish

No. 1399 —Phono needle cup....	Your Cost \$0.08
---------------------------------------	-------------------------

MODEL A1 AMPLIFIER



Compact A/C operated unit that will develop 2.2 watts of audio. Ideal for instruments and record playing. Complete with 3 tubes, microphone input, record input with individual controls for each. Less Speaker.

25 or 60 cycle Operation

Your Cost..... **\$15.40**

WHY NOT—

BUILD YOUR OWN THREE-TUBE PHONO AMPLIFIER!

Parts required:

1 Punched Chassis for three-tube amplifier.....	\$0.50
1 5" P.M. Speaker.....	3.00
1 Output Transformer.....	.99
1 50L6GT Tube.....	1.02
1 35Z5GT Tube.....	.70
1 12SQ7GT Tube.....	.96
3 Octal Wafer Sockets.....	.09 .27
1 BT-1-watt, 150-ohm Resistor.....	.12
2 BT-1/2-watt, 470-ohm Resistor.....	.10
1 BT-1-watt, 10 meg Resistor.....	.12
1 AB 10-watt, 150-ohm Resistor (for dropping filament).....	.45
2 Condensers—.01-600 V. Aerovox.....	.15 .30
1 Filter Condenser—20 x 20—150 V Aerovox.....	.75
1 Volume Control IRC, 500M ohms.....	.81
1 A.C. Switch #21—(for above control).....	.39
1 Chassis Jack #2385.....	.16
6 Feet—A.C. Lamp Cord.....	.03 .18
1 Foot—#18 Shielded Wire.....	.04
1 Free Diagram	

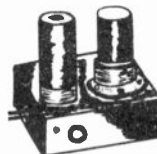
VARIABLE RELUCTANCE PICKUP & PREAMP



General Electric Preamplifier

Designed specially for use with the General Electric Reluctance Cartridge. Increases output and equalizes cartridge for flat response. Employs a 6SC7 tube. Leads and plug provided for connection to amplifier. Compact size, 3 3/8" x 3 3/8" x 4 1/2".

No. 5PX001 complete with tube.
Your Cost..... **\$8.60**



Variable reluctance type reproducer provides high fidelity dependent more on the characteristics of the records than on the pickup. Hum pickup is reduced by a shielded case and balanced double coil construction. Built-in permanent sapphire needle tip mounted in a soft spring suspension; with the light and small stylus assembly, sensitivity only to lateral vibrations, low record pressure and the elimination of resonant response, low distortion, needle scratch, needle talk, and record wear are achieved.

Your Cost..... **\$5.25**

ORDER ALL GENUINE REPLACEMENT PARTS FROM C.E.S.

SOUND DISTRIBUTION SYSTEMS FOR CHURCH TOWERS

GENERAL

The ever increasing demand for church steeple sound distribution systems has created an opportunity which is an excellent source of income to the progressive dealer.

DISADVANTAGES OF CHURCH BELLS OR CHIMES

Church bells or chimes possess a number of disadvantages.

- (a) Initial cost.....\$20,000 to \$30,000.
- (b) Excessive weight..... 10,000 to 50,000, lbs.
- (c) Pitch—Inconsistent.
- (d) Last but not least, conventional bells and chimes lack the versatility inherent in amplifier systems.

ADVANTAGES OF ELECTRONIC SOUND SYSTEM

- (a) Inexpensive.....2 to 3% of cost of bells or chimes.
- (b) Low maintenance cost.
- (c) Flexibility may be tremendous by the following additions such as:
 - (1) Microphone pick up for organ.
 - (2) Organ chimes and choir for sound distribution.
 - (3) Indoor sound reinforcement and hard-of-hearing aids within the church.

EQUIPMENT REQUIREMENTS

- (a) Record Player
- (b) Amplifier System
- (c) Horns—heavy gauge metal construction.
- (d) Driver Units—P.M. type.

ESSENTIAL

In view of the thousands of people who will listen and pass judgment on the quality of music there should be no compromise in the quality of the individual components.

Since chime and bell music have high audio peaks, the amplifiers and loudspeakers should have ample reserve power. The response characteristics of horns and driver units should be carefully checked to ensure a proper degree of low frequency reproduction.

Special chime records are available in which excellent recordings have been made of very fine chime numbers such as Notre Dame, St. Peters, University of Chicago Chapel, St. Paul Cathedral of New York, etc. These records are ideal and will give perfect reproduction.

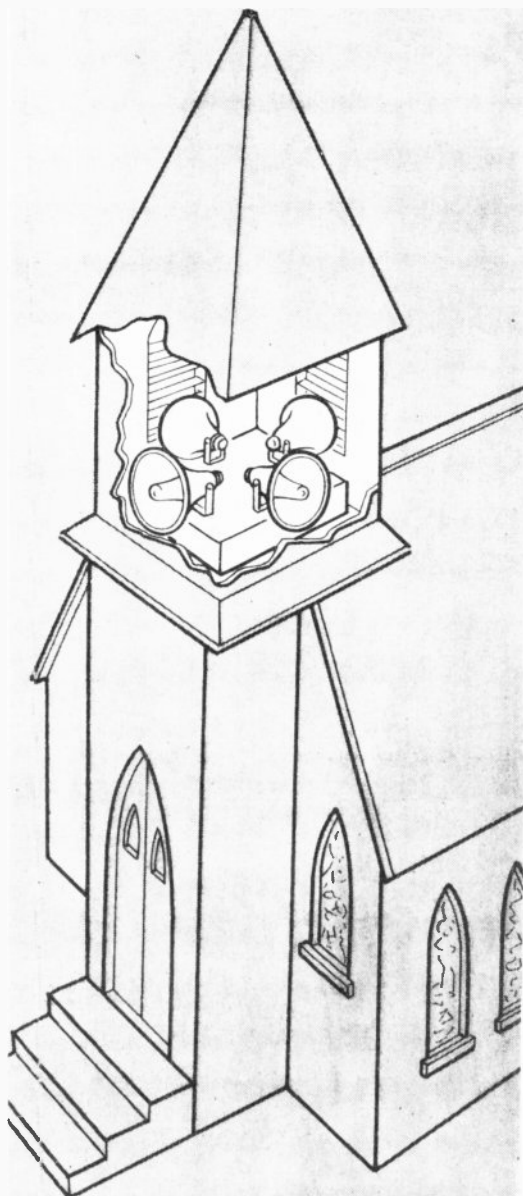
CHOICE OF SYSTEMS—We recommend Canadian Plus Sound Amplifiers.


System	Basic	Medium	High Power
Sound distribution	1/8-1/4 Mile	1/4-1/2 Mile	1 Mile
Power	20-25 watt	35-50 Watt	75-100 watt
Horns	1-RLH	1-RLH	2-LH or 2-GH
Driver Units	1-PAH	2-PAH	4-PAH
Connector		1-2YC	2-2YC

The above chart has been prepared by our sound engineers for your own guidance in choosing the power of the amplifier, type of horns and driver units in order to meet your requirements. RLH is used to obtain an even 360° sound distribution where radius coverage is not excessive.

LH or GH are directional and will be used for concentrated power. Different combinations of horns may be used to compromise between distance and power.

SEE P.A. PAGES FOR PLUS SOUND AMPLIFIERS




COMPLETE BULLETIN AND PRICES ON REQUEST


BE
EXCLUSIVE
WITH

CANADIAN+ FOCUSED ELECTRON

SOUND SYSTEMS BY SOUND SPECIALISTS

SOUND new patented circuits offer—lower distortion . . . improved sound quality (even at overloads) . . . longer tube life . . . extreme stability . . . low power consumption . . . and many other leading features. Electronically and mechanically

"SOUND" public address amplifiers reflect the finest craftsmanship and the most advanced engineering . . . with years-ahead features for outstanding performance, economy and durability.

EXCLUSIVE FEATURES

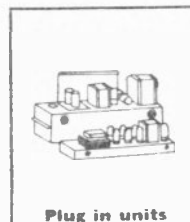
Power stages can be built up with any desired number of 30 and 45 watt units up to 450 watts. Cabinets can be stacked in a racklike fashion.

EXCLUSIVE FEATURES

Include tuner
A. Power stages
B. Volume indication
C. Phono top
D. Preamplifier

EXCLUSIVE FEATURES

Patented Focus Beam amplifiers. The beam power tubes are always kept in focus, even at high overloads. 15 output impedances.



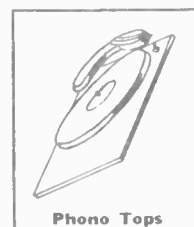
Plug in units



Add on stages



This...NOT This



Phono Tops

PLUS SOUND IS SO NAMED BECAUSE IT CONTAINS ALL THE USUAL FEATURES OF PA AMPLIFIERS + THE FOLLOWING FEATURES:

1. Focused electron beams (Sound, Inc. Patent No. 2340904)
2. Low Distortion (less than 2%)
3. High Amplification (120 db with 100,000 ohms)
4. Bass tone control (30 db range no change in volume)
5. Treble tone control (25 db range)
6. Power output (from 30 to 300 watts)
7. Ability to sound good at extreme overloads (30 watts has peak)
8. Low hum (minus 60 db below signal level)
9. Streamlined Aluminum Cabinet
10. Unusual ventilation
11. Wired with Navy type flame proof wire
12. Moisture proof fungus treated
13. Wide range speaker matching
14. Double connections (for two types of plug)
15. Improved quality (no distortion because of unfocused beams)
16. Long tube life (almost four times longer)
17. Operates from 100 to 130 volts
18. Low in cost
19. Low in power consumption
20. Extremely stable
21. Cabinets can be stacked in racklike fashion
22. No Negative Feedback
23. Scratch Filter
24. Approved Tube Voltages

DETAILS OF PLUG IN ADDITIONS

- A. RADIO TUNER:** A special socket is provided on the pre-amplifier for plugging in a small radio tuner. This tuner has its own volume control. A monitor jack is provided for tuning with head phones.
- B. POWER STAGES:** Power stages come in two basic sizes, 30 and 45 watts. They are built with male plugs on the front and female plugs on the rear, so any desired number of power units can be plugged together, up to 450 watts. It is recommended that a test be made at each installation to determine the correct size. 30 watt amplifier uses 4 6V6GT and 2-7Z4 tubes, the 40 watt amplifier uses 6 6V6GT and 2-5Z4 tubes.
- C. PRE-AMPLIFIER:** Pre-amplifiers made in one basic model, with four channels. Uses 2 6SQ7, 1-6J5, 1 6SL7 tubes.
- D. VOLUME INDICATOR:** This indicator consists of two neon lights, one accurately calibrated to 30%, and the other to 100% volume. With normal operation the 30% light should flash with every word in the program, indicating the signal is loud enough, while the 100% should not flash, except occasionally, which indicates the signal is too loud. The neon lights respond instantaneously to peaks, while meters are very inaccurate because of their sluggishness.
- E. PHONO TOP:** Conventional type, with crystal pick-up, and all cables and connectors for plugging into PLUS SOUND. The top plate of the amplifier is removed, and interchanged with the phono top.
- F. EASY FOOLPROOF . . . OPERATION:** Has single knob control "on, off, reject". Plays 12 ten inch records, 10 twelve inch records or 10 inter mixed. Cycling time is less than 4 seconds. Automatically turns knob to "off" when last record has been played.

No tripping—No Jamming—Noiseless turntable

P.A. EXHIBITION

C.E.S. HAS GIVEN YOU 35 YEARS OF DEPENDABLE SERVICE. NOW—OUR COMPLETE PA DEPARTMENT IS AT YOUR DISPOSAL. Use our FACILITIES TO DEMONSTRATE to your customers.

Canadian Electrical has the best sound values at the lowest prices. See all the latest developments in: PA, recording and intercommunication at our NEW PA department

FOR BEST SOUND VALUE CANADIAN+PLUS+SOUND

PLUS + SOUND

BEAM AMPLIFIERS

PATENTED



for **ECONOMY + POWER + EXPANDABILITY**

CANADIAN + PLUS + SOUND

30 WATT COMPLETE SYSTEM

For your convenience the table below gives you a guide for the equipment necessary for a complete system, either indoors or outdoors.

	Indoor System	Your Cost	Outdoor System	Your Cost
30 Watt Canadian Plus Sound Amplifier with tubes: 60 cy.	P3 30 10	\$151.29	P3 30 10	\$151.29
Reproducers	2-12 PVG Utah Speakers	38.50	2 PH Horns	46.40
Driver Units			2 SAM	59.20
Balloes	2 G1212	13.00		
Microphone	52 Shure	20.00	52 Shure	20.00
Microphone Stand	MS12C Atlas	9.51	MS12C Atlas	9.51
Cable	50 ft. SJ	3.00	50 ft. SJ	3.00
Complete 30 watt amplifier ready to operate with instructions!		\$235.30		\$289.40

TERMS: \$58.83 Down, \$16.04 for 12 months. TERMS: \$72.35 Down, \$19.69 for 12 months.
 For 25 cy. ADD Electronic Frequency Converter 802 Your Cost \$58.50
 For conversion to 6 volt for mobile use No. 6R10 Converter Your Cost \$66.95

CANADIAN + PLUS + SOUND

45 WATT COMPLETE SYSTEM

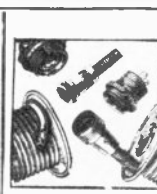
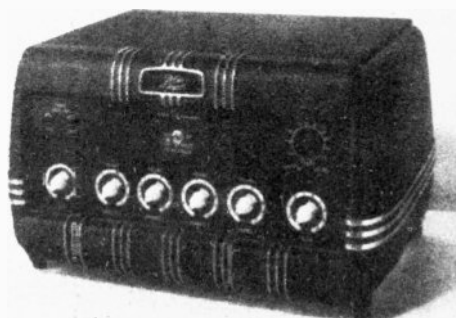
A complete guide for complete indoor and outdoor system is tabulated below for your convenience.

	Indoor System	Your cost	Outdoor System	Your Cost
45 Watt Canadian Plus Sound Amplifier with tubes: 60 cy.	P3 6 10	\$167.49	P3 6 10	\$167.49
Reproducers	2 G12P Utah Speakers	38.50	2 LH Horns	71.20
Driver Units			2 PAH	79.20
Balloes	2 G1212	13.00		
Microphones	52 Shure	20.00	52 Shure	20.00
Microphone Stand	MS12C Atlas	9.51	MS12C Atlas	9.51
Cable	50 ft. SJ	3.00	50 ft. SJ	3.00
Complete 45 watt amplifier ready to operate with instructions!		\$251.50		\$356.00

TERMS: \$62.88 Down, \$17.12 for 12 months. TERMS: \$89.00 Down, \$24.21 for 12 months.
 For 25 cy. ADD Electronic Frequency Converter 802 Your Cost \$58.50
 For conversion to 6 volt for mobile use No. 6R10 Converter Your Cost \$66.95

ECONOMY PRICES

AMPLIFIERS COMPLETE			PLUG IN FEATURES	
Watts	Channels	Your Cost		Your Cost
30	1	\$151.29	CPS-30 30 watt de luxe power amplifier.	\$53.55
45	1	167.49	CPS-45 45 watt de luxe power amplifier.	69.75
60	1	204.84	CPS-4 4 channel Pro amplifier.	62.55
75	1	221.04	CPS-10 Booster cabinet.	35.19
90	1	237.24	CPS-11 Receptor Player Top.	24.15
			CPS-VM VM800 Charger.	29.50
			CPS-W Webster 156 Charger.	43.20
			CPS-24 Radio Tuner.	20.30
			CPS-P13 Volume Indicator.	3.26



FOR LOWEST SOUND PRICES CANADIAN CHALLENGER

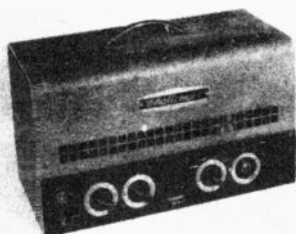
CANADIAN ELECTRICAL

offers you

CANADIAN

FEATURING THE NEW *SelecTone* TONE CORRECTOR
Exceptionally LOW PRICED LINE OF AMPLIFIERS WITH HIGH PRICED QUALITIES

18 WATT AMPLIFIER AND SYSTEMS CHALLENGER CC18.



1 MICROPHONE INPUT, 1 PHONO INPUT

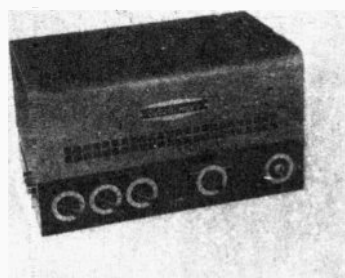
	Indoor	Your Cost	Portable	Your Cost
Amplifier	CC18	\$57.37	CC18	\$57.37
Microphone	1-Shure 707A	10.80	1-Shure 707A	10.80
Speakers	2-Utah 12PVH	24.00		
Horns			1-University PH	23.20
Baffles	2-G1212	13.00		
Driver Unit			1-University MA25	20.00
Mike Stand	1-Atlas MS-12C	8.07	1-Atlas MS-12C	8.07
Cable	50 ft.	3.00	50 ft.	3.00

Complete System, Indoor \$116.24 Portable \$122.44

TERMS: 25% Down Payment, 6 months for the Balance.

SPECIFICATIONS

Power Output: 18 watts.
Response: 30-12,000 cps \pm 2 db.
Gain: Mic. 118db, Phono. 78db.
Output Impedances: 4, 8, 15, ohms, 70 volts.
Tone Control: SelecTone.
Tubes: 2-6SF5, 1-6SL7GT, 2-6V6GT, 1-5Y3GT.
Dimensions: 14" x 8" x 8".



1 MICROPHONE INPUT, 1 PHONO INPUT

	Indoor	Your Cost	Outdoor	Your Cost
Amplifier	CC30	\$72.00	CC30	\$72.00
Microphone	1-Shure 707A	10.80	1-Shure 707A	10.80
Speakers	2-Utah 12PVH	24.00		
Horns			1-University PH	23.20
Baffles	2-G1212	13.00		
Driver Unit			1-University MA25	20.00
Mike Stand	1-Atlas MS-12C	8.07	1-Atlas MS-12C	8.07
Cable	50 ft.	3.00	50 ft.	3.00

Complete System, Indoor \$130.87 Outdoor \$137.07
For Portable System, use Portable Speaker Baffle instead of Baffle G1212.

Complete System, Portable Price on application.

TERMS: 25% Down Payment, 6 months for the Balance.

SPECIFICATIONS

Power Output: 30 watts.
Response: 30-12,000 cps 2db.
Gain: Both Mic 118 db, Phono 85 db.
Output Impedances: 4, 8, 15 ohms, 70 volts.
Tone Control: SelecTone.
Tubes: 2-6SC7; 1-6SL7GT; 2-6L6G; 1-5U4G.
Dimensions: 15" x 10" x 8".

30 WATT AMPLIFIER WITH PHONO CHALLENGER CC30X



2 MICROPHONE INPUTS, 1 PHONO INPUT Specifications as in CC30.

	Indoor	Your Cost	Outdoor	Your Cost
Amplifier	CC30X	\$94.55	CC30X	\$94.55
Speaker	2-Utah 12PVH	24.00		
Horn			1-University PH	23.20
Baffle	2-G1212	13.00		
Driver Unit			1-University MA25	20.00
Microphone	1-Shure 707A	10.80	1-Shure 707A	10.80
Mike Stand	1-Atlas MS-12C	8.07	1-Atlas MS-12C	8.07
Cable	50 ft.	3.00	50 ft.	3.00

Complete System, Indoor \$153.42 Outdoor \$159.62
For Portable System use Portable Speaker Baffle in place of Baffle G1212.

Complete System, Portable Price on application.

TERMS: 25% Down Payment, 6 months for the Balance.



60 WATT AMPLIFIER AND SYSTEMS CHALLENGER CC60



2 MICROPHONE INPUTS, 1 PHONO INPUT

	Indoor	Your Cost	Outdoor	Your Cost
Amplifier	CC60	\$121.50	CC60	\$121.50
Speaker	4-Utah 12PVH	48.00		
Horn			3-University LH	106.80
Baffle	4-G1212	26.00		
Driver Unit			3-University SAHF	88.80
Microphone	1-Shure 52	20.00	1-Shure 52	20.00
Mike Stand	1-MS-12C	8.07	1-MS-12C	8.07
Cable	50 ft.	3.00	50 ft.	3.00

Complete System, Indoor \$226.57 Outdoor \$348.17

TERMS: 25% Down Payment, 6 months for the Balance.

SPECIFICATIONS

Power Output: 60 watts.
Response: 30-12,000 cps \pm 2 db.
Gain: 2-Mic. 120 db; Phono 85 db.
Output Impedance: 4, 8, 15 ohms, 70 and 140V.
Tone Control: SelecTone.
Tubes: 2-6SF5; 1-6SL7GT; 1-6V6GT; 2-807; 1-5Y3GT; 1-5R4GY.
Dimensions: 17" x 11 1/2" x 9 1/4".

CANADIAN CHALLENGER — BEST SOUND VALUE MONEY CAN BUY

CHALLENGER

AMAZING LOW PRICES
Best sound value
money can buy

WHY CHALLENGER IS CHEAPER

Canadian Challenger are able to produce amplifiers, at **lower cost**, without impeding the efficiency of the products or in any way using inferior materials. This effect is achieved as a result of Intelligent Engineering, Elimination of unnecessary frills and "Sex-appeal" and simplicity of design.

We leave it to you to be the judge of the resultant quality!

CHALLENGER CD6 6 WATT MOBILE SYSTEM

SPECIFICATIONS:

Power Output: 6 watts.
Response: Optimum Speech.
Gain: 109 db.
Output Impedances: 4, 8, 15 ohms.
Tubes: 2-6SF5; 1-6L6GA; 1-6X5GT.
Dimensions: 3 1/4" x 8" x 7".

1 MICROPHONE INPUT

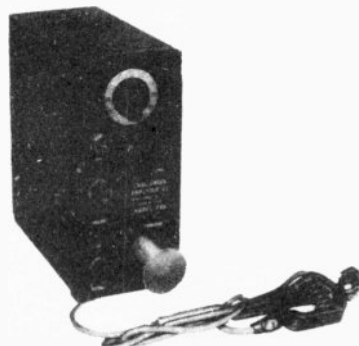
A 6 watt mobile amplifier and tubes featuring universal mounting permitting four, alternate positions and remote control of standby.

Complete System:	Your Cost
1-CD6 amplifier.....	\$48.37
1-University 1B8 trumpet.....	26.00
1-Shure Mike 707A.....	10.80
1-Mike Stand Atlas MS-12C.....	8.07
50 ft. cable.....	3.00
Complete System	96.24

TERMS: 25% Down Payment, 6 months for the Balance.

TRY SELLING THE CD6 SYSTEM FOR THESE USES:

Police Work—Buses—Sports Meetings—Speech making—Boats—And there are a hundred more than **YOU** can think of.



CHALLENGER CC618 18 WATT UNIVERSAL MOBILE SYSTEM

SPECIFICATIONS:

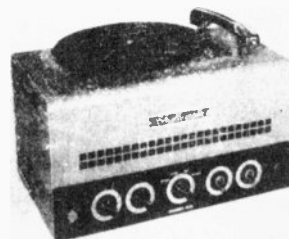
6 volt DC & 110 volt A.C.
Power Output: 18 watts.
Response: 30-12,000 cps ± 2 db.
Gain: Mic. 118 db. Phono 78 db.
Output Impedances: 4, 8, 15 ohms, 70 volts.
Tone Control: Selectone.
Tubes: 2-6SF5; 1-6SL7GT; 2-6V6GT; 1-7Z4.
Dimensions: 15" x 10" x 10".

1 MICROPHONE INPUT, 1 PHONO INPUT

18 watt Universal amplifier and tubes AC and DC cable and built in phono top. This unit has foolproof conversion from AC to DC. Remote control of standby. Individual control of all inputs, 2 microphone and phono, with selectone Tone Control.

Complete System:	Your Cost
1-CC 618 Amplifier.....	\$119.30
1-University PH Trumpet.....	23.20
1-University MA 25 Driver Unit.....	20.00
1-Shure Mike 707A.....	10.80
1-MS12C Atlas Mike Stand.....	8.07
15 ft. Microphone Cable.....	.50
Complete System	182.27

TERMS: 25% Down Payment, 6 months for the Balance.



**DON'T FORGET TO VISIT OUR NEW
P.A. DEPARTMENT**

to see the latest electronic developments

CANADIAN + PLUS + SOUND SPECIAL FEATURES

PORTABLE FOCUSED SOUND SYSTEM

TRULY A PORTABLE Focused Sound System . . . with built-in speakers, microphone and turntable . . . in a streamlined aluminum and plastic carrying case . . . folds to 7 3/4" and weighs less than 25 lbs. Power Output 15 watts. High amplification microphone gain 105 DB. Low distortion 75 DB. Frequency response 50 to 10,000 C.P.S. Operates on 105-125 volts. 60 cycles.

	Your Cost
Model E3-10 —with turntable.....	\$119.55
Model E3 —less turntable.....	98.10

"SOUNDETTE"

The Greatest Little Amplifier Ever Built
SOUNDETTE ALL PURPOSE AMPLIFIER . . . COMPACT . . . Portable . . . in 7 and 15 watts models . . . smart all steel streamlined carrying cases.

- Low distortion only 2% at 400 and 1000 cycles.
- Low hum, minus 55DB below signal level.
- Frequency response from 50 to 1000 C.P.S. Operates on A.C. 105-125 volts 60 cycle. Output Impedance 4, 5, 8, 16, 250, 600 ohms available in both terminal and plug outlets.

Model	Watts	Your Cost
E-8	15	\$58.45
E-11	7	35.55



TRY CANADIAN ELECTRICAL FOR ALL P.A. EQUIPMENT



Bogen SOUND SYSTEMS

Introducing B O G E N

Canadian Electrical has in the past 35 years handled lines that make only the finest products, so that its customers will have only the best at its disposal. In keeping with this policy, we are now able to offer for your approval the Bogen line. It is without question the most complete, and most competitively priced line of sound equipment made.

Not only are Bogen products outstanding in design and contain the finest components, but they are far superior in:

Performance-Power Output-Hum Level-Frequency Response-Tube Specifications.



F30 30 WATT AMPLIFIER WITH BUILT IN PHONO

A portable amplifier with built in phonograph. Three models F30M with single speed phonograph, F30A with automatic changer F30V with dual speed motor.

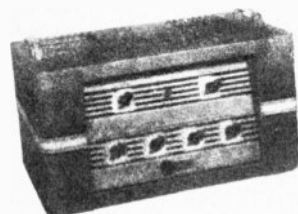
	Indoor	Your Cost	Outdoor	Your Cost
Amplifier	F30A w/aut. F30V w/dual Sp. F30M w/phonograph top	\$162.84 159.77 138.73	F30A F30V F30M	\$162.84 159.77 138.73
Mike	1-Shure 52	20.00	1-Shure 52	20.00
Mike Stand	1-MS 12C	8.07	1-MS-12C	8.07
Speaker	2-Utah 12PVH	24.00		
Baffle	2-G1212	13.00		
Horn			2-University LH	71.20
Driver Unit			2-University SAHF	59.20
Cable	50 ft.	4.62	50 ft.	4.62

Complete system with
F30A w/changer Indoor \$232.53 Outdoor \$325.93
F30V w/dual sp. Indoor 229.46 Outdoor 322.80
F30M w/phonograph Indoor 200.42 Outdoor 301.82

TERMS: 25% down 6-12 months for the balance.

SPECIFICATIONS

Power Output: 30 watts at less than 5%. **Peak Power** 40 watts. **Frequency Response:** 40-12,000 cycles 1.5 db. **Input Impedance:** 2 microphone channel, 500,000 ohms; phono channel 500,000 ohms. **Output Impedance:** 4-8-15-500 ohms and 70 volts constant voltage taps available. **Power Consumption:** 180 watts 117 volts 50-60 cycles AC. **Tubes:** 2-6SF5; 1-6SC7; 1-6SN7-GT; 2-6L6G; 1-5U4G. **Dimensions:** 15" long, 7 3/4" deep, 9 1/2" high.



EX 35-35 WATT DELUXE SYSTEM

3 microphone channels—one phono channel—Electronic tone corrector—remote control of two channels.

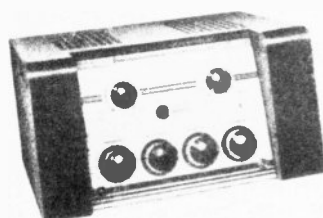
	Indoor	Your Cost	Outdoor	Your Cost
Amplifier	EX35	\$140.13	EX35	\$140.13
Mike	1-Shure 52	20.00	1-Shure 52	20.00
Mike Stand	1-Atlas MS-12C	8.07	1-Atlas MS-12C	8.07
Speaker	2-Utah G12P	38.50		
Baffle	2-G1212	13.00		
Horn			2-University LH	71.20
Driver Unit			2-University SAHF	59.20
Cable	50 ft.	4.62	50 ft.	4.62

Complete System Indoor \$224.32 Outdoor \$303.22

TERMS: 25% Down Payment. 6 months for balance.

SPECIFICATIONS

Power Output: 35 watts at less than 5%. **Peak Power** 50 watts. **Frequency Response:** 30-14,000 cycles 1 db. **Input Impedance:** 3 Microphone channels, 500,000 ohms phono channel, 500,000 ohms. **Output Impedance:** 4-8-15-500 and 1000 ohms. **Power Consumption:** 190 watts 117 volts 50-60 cycles AC. **Remote Control Provision:** Built in—permits mixing and fading two of the 4 available inputs from a remote point. **Tubes:** 4-6SF5; 2-6SL7GT; 1-6SJ7; 1-6F6G; 1-7ZA; 2-6L6G; 1-5U4G. **Dimensions:** 16 1/2" wide, 8 1/2" high, 10 1/4" deep.



GX50 DELUXE 50 WATT SYSTEMS

Three microphone channels—one phono channel. Electronic tone corrector—Constant voltage output.

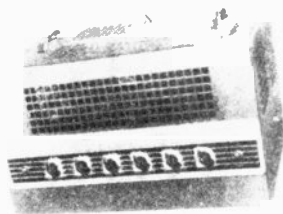
	Indoor	Your Cost	Outdoor	Your Cost
Amplifier	*GX50	\$181.04	GX50	\$181.04
Mike	1-Shure 55	50.00	1-Shure 55	50.00
Mike Stand	1-Atlas MS-12C	8.07	1-Atlas MS-12C	8.07
Speaker	3-Utah G12P	57.50		
Baffle	3-G1212	19.50		
Horn			3-University LH	106.80
Driver Unit			3-University SAHF	89.80
Cable	50 ft.	4.62	50 ft.	4.62

Complete System Indoor \$320.98 Outdoor \$439.33

TERMS: 25% Down Payment, 6 months for balance.

SPECIFICATIONS

Power Output: 50 watts at less than 5%. **Peak Power** 90 watts. **Frequency Response:** 30-20,000 cycles 2 db. **Input Impedance:** 3 microphone channels 500,000 ohms phono channel 500,000 ohms. **Output Impedance:** 4-8-16 ohms and two voltage taps (70 and 140v). **Power Consumption:** 240 watts 117 volts 50-60 cycles AC. **Tubes:** 4-6SF5; 1-6SL7; 1-6SJ7; 1-6SN7; 1-5R4GY; 2-807; 1-5Y3. **Dimensions:** 17" long 9" high, 13 1/2" deep.



E75-70 WATT HIGH POWER SYSTEMS

Two microphone channels, one phono channel. Bass-Treble tone control—two master gain controls.

	Indoor	Your Cost	Outdoor	Your Cost
Amplifier	E75	\$187.72	E75	\$187.72
Mike	1-Shure 55	50.00	1-Shure 55	50.00
Mike Stand	1-Atlas MS-12C	8.07	1-Atlas MS-12C	8.07
Speaker	4-Utah G12P	77.00		
Baffle	4-G1212	26.00		
Horn			4-University LH	142.40
Driver Unit			4-University SAHF	118.40
Cable	50 ft.	4.62	50 ft.	4.62

Complete System Indoor \$353.41 Outdoor \$511.21

TERMS: 25% Down Payment, 6 months for balance.

SPECIFICATIONS

Power Output: 70 watts at less than 4%. **Peak Power** 100 watts. **Frequency Response:** 30-14,000 cycle 1 db. **Input Impedance:** 2 microphone channels, 500,000 ohms, phono channel 500,000 ohms. **Output Impedance:** Each power amplifier tapped at 4-8-15-500-1000 ohms. **Power Consumption:** 290 watts, 117 volts, 50-60 cycles AC. **Tubes:** 2-6SF5; 2-6SL7GT; 2-6F6G; 2-7ZA; 4-6L6G; 2-5V4G. **Dimensions:** 17 1/8" long, 10" high, 12 1/2" deep.

"CANADIAN CHALLENGER" LOWEST PRICED AMPLIFIERS EVER MADE

COMPETITIVELY PRICED FOR PERFORMANCE

MORE FOR YOUR MONEY WITH BOGEN

- ★ More Tubes
- ★ Bigger Transformers
- ★ Matching Speaker Cords
- ★ Better Wiring
- ★ More channels
- ★ Exclusive Electronic Tone corrector

MOBILE SYSTEMS

E-1620 23 WATT STANDARD UNIVERSAL FOR MOBILE SYSTEM



Universal operation 6 volt D.C. 110 volt AC. Two channels one for high impedance mike one for built in phono. The two inputs have gain controls that can be mixed and faded. Tone compensator gives individual control of treble and bass frequencies. Two power switches.

SPECIFICATIONS

Power Output: AC; 23 watts at 5% DC; 19 watts at 5%.
Frequency Response: 30-14,000 cycles \pm 2.5 db.
Input Impedance: Microphone channel 500,000 ohms, phono channel 500,000 ohms.
Power Consumption: 90 watts, 117v AC; 17.5 amps 6V DC.
Tubes: 1-6SJ7; 1-6SL7GT; 2-6L6G; 2-6X5GT.
Dimensions: 15 1/2" long, 10" deep, 12 1/2" high.
E1620—Your Cost \$144.61
TERMS: 25% Down Payment, 6 months for remainder.

EX 326 32 WATT DELUXE UNIVERSAL FOR MOBILE SYSTEM



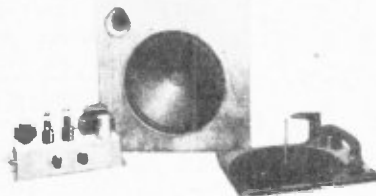
The EX 326 is a completely self contained mobile 6 volt DC, 115 volt AC amplifier with built in phono. Change-over is automatic and foolproof. Two channels for high impedance mikes, one for phono. All can be mixed and faded. Triple Range Electronic Tone corrector gives widest possible control of frequency response to meet ranging conditions of mobile sound work. Constant speed phono protected by hinged lid.

SPECIFICATIONS

Power Output: 32 watts at less than 5%.
Frequency Response: 30-12,000 cycles 2 db.
Input Impedance: Microphone channels (2) 500,000 ohms. Phono channel 500,000 ohms.
Power Consumption: 120 watts, 117V AC; 28 amps 6V DC.
Tubes: 3-6SF5; 2-6SL7GT; 2-6L6G; 1-5V4G.
Dimensions: 16" long, 16" wide, 10 1/4" deep.
EX326—Your Cost \$216.72
TERMS: 25% Down Payment, 6 months for remainder.

HI-FIDELITY SYSTEMS

PK HIGH FIDELITY SYSTEM



The system includes the PH 10 amplifier, a high fidelity speaker combination consisting of a heavy 12" speaker, a single University tweeter mounted in a 16" x 16" baffle and the new Webster 148 changer with automatic muting switch. Packed in a single attractive carton complete with mounting template for changer and instructions.

AMPLIFIER SPECIFICATIONS

Power Output: 10 watts at 5%. **Peak Power** 14 watts.
Frequency Response: 40-15,000 cps. \pm 1 db.
Input Impedance: 500,000 ohms.
Output Impedance: 3.2 and 8 ohms.
Power Consumption: 60 watts, 117v 60 cycle.
Tubes: 2-6V6GT; 1-6SL7GT; 1-5Y3GT.
Dimensions: 5" x 11" x 3".
PK. Complete—Your Cost \$118.94
TERMS: 25% Down Payment, 6 months for remainder.

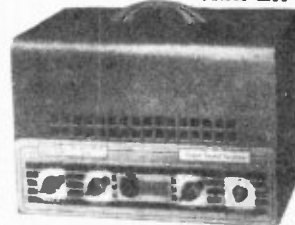
MODEL AM2 MIXER



Adds extra microphone channel to any high impedance amplifier. Equipped with two microphone connectors and two gain controls. Short shielded cable for attachment to microphone input of any amplifier. Two microphones can be connected to single input, and mixed and faded individually.

AM2—Your Cost \$9.68

PV10-10 WATT HIGH FIDELITY PHONO AMPLIFIER



The model PV10 phono amplifier is designed for home use where less power is required and price is a factor. It creates a depth of range of reproduction beyond ordinary amplifiers due to the straight line expander which it features. Will reproduce any type of record with remarkable realism.

SPECIFICATIONS

Power Output: 10 watts at 5%. **Peak Power** 17 watts
Frequency Response: 30-18,000 cycles \pm 2 db.
Hum: -60 db.
Output Impedance: 4-8-15-500 ohms. 500 ohm tap equivalent to 70v constant voltage tap.
Power Consumption: 78 watts, 117v 50-60 cycles AC.
Tubes: 2-6SL7GT; 2-6V6GT; 1-6SA7; 1-5Y3GT.
PV10—Your Cost \$62.57
TERMS: 25% Down Payment, 6 months for remainder.

MODEL SR REMOTE CONTROL



Equipped with two gain controls, permitting the operator to control volume and mix two channels of a Bogen amplifier. Compact and not subject to inductive hum pick-up. Can be used with up to 2000 ft. of wire without loss of power or quality in the amplifier.
SR—less cable—Your Cost \$7.25

DEALERS

Here is a source of New Profit!
Progressive Dealers everywhere are cashing in on this new idea.

Use the PK System for:

1. That Conversion Job.
2. New Custom Built Console.
3. That built in High-Fi Job.

BETTER BUYS VISIT CANADIAN'S NEW P.A. DEPARTMENT



MADE IN CANADA

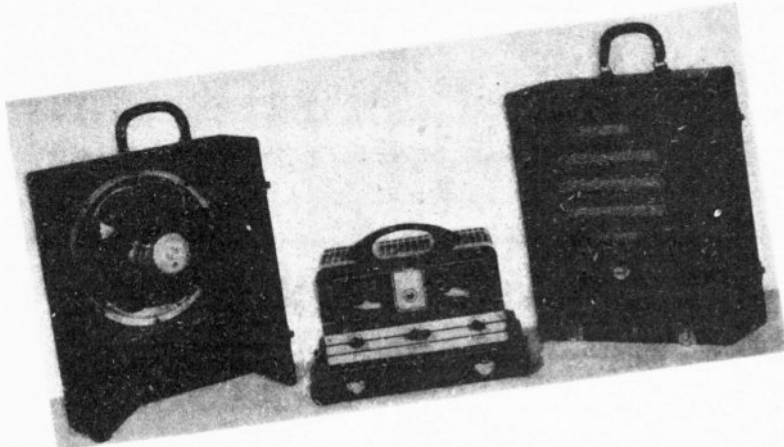
STROMBERG-CARLSON

PUBLIC ADDRESS SYSTEMS



MADE IN CANADA

25 WATT SYSTEM—MODEL 207P PORTABLE SYSTEM



The system contains one 207 amplifier and portable speaker case which contains two 12 inch speakers with necessary cords and connectors. The reproducer case provide a baffle for the speakers. One speaker case contains 25 foot cable, the second 50 foot permitting the second speaker, to be located 75 feet from the amplifier. Operating features include one phonograph and two microphones high impedance, individually controlled input that can be blended or mixed, separate treble and bass attenuators.

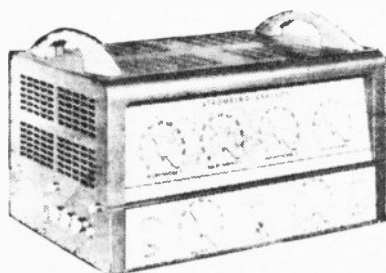
AMPLIFIER SPECIFICATIONS:

Tubes: 1-5U4G; 2-6SJ7; 1-6J5; 1-6N7; 2-6L6G.
Power Supply: 105-125 volts, 25-60 cycles.
Frequency response: 30-10,000 cycles, not more than 3 db variations.
Finished in roxalin grey. Banding, striping and numbering, ivory color.

	Your Cost
Model 207 Amplifier Only	\$ 90.65
Model 207P — Amplifier with cases,	
speakers and cables	153.65
Model 707A Shure Microphone	10.80
Model MS12C Microphone Stand	9.51
Model 207PS with mike and stand,	
complete system	173.96
Try our easy terms: 25% Down Payment	
6 Months for the balance.	

50 WATT SYSTEM—MODEL 350 AMPLIFIER

A general purpose high fidelity dual output amplifier has wide range of application in the sound reproduction field. A screw type terminal strip is provided for a phonograph or equivalent level high impedance output. Four volume controls permit the regulation and mixing of the phonograph and the three microphone input.



SPECIFICATIONS:

Power consumed: 275 Watts Max. at 125 volts
Noise Level: 50 db below maximum signal.
Size: 16 1/2" wide, 14" deep, 10" high
Output Impedance Taps: 4, 8, 15, 250, 500 ohms.
Frequency Response: 30 to 12,000 cycles with less than 3 db variation.
Controls: 3 microphone one phonograph, one Bass Suppressor, one treble suppressor, one ON-OFF 2 Master volume con. rols.
Tubes: 3-6SJ7; 1-6SC7 1/2 2-6SC7 1/2 2-6N7 1/2 106L6G; 2-5U4G.
Power Supply: 105-125 volts; 25-60 cycles
Model 350 Amplifier only—Your Cost

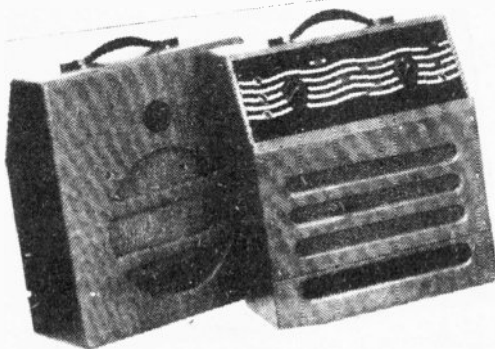
\$192.50

Try our easy terms: 25% Down Payment; 6 months for the balance.

COMPLETE CATALOGUE SENT ON REQUEST!

MASCO MAP-15

MUSICAL INSTRUMENT AMPLIFIER



For high fidelity reproduction of reed, string and percussion instruments. The case is of one piece construction with sloping front control panel. Three panel. Three inputs, allowing for 3 instruments together or one microphone and two instruments. In the case is 15 watt amplifier and 12" speaker.

Tubes: 2 7F7; 2-6L6 GA; 1-5Y3G.

Controls: Two Master volume, Tone.

Power Output: 15 watts
MAP-15 (less tubes)

60 cycles— Your Cost. . . \$ 65.75
List Price . . . 109.60

Try our easy terms: 25% Down;
6 months for the balance.

At your disposal

C.E.S. COMPLETE P.A. DEPARTMENT

Use our excellent facilities to demonstrate equipment to your customers. Complete technical service available by sound specialists. See all the latest developments in:

- ★ PA
 - ★ RECORDING
 - ★ INTERCOMMUNICATION
- At our new Department!

Drop in anytime!

TRY C.E.S. FOR BETTER SOUND VALUE

Talk it over

on a

Northern Electric MAGNAPHONE SYSTEM

MAGNAPHONE 'JUNIOR'

SAVE TIME AND INCREASE EFFICIENCY IN:



- ★ OFFICES
- ★ STORES
- ★ HOTELS
- ★ HOMES

- ★ THEATRES
- ★ HOSPITALS
- ★ SCHOOLS
- ★ WAREHOUSES



TWO STATION JUNIOR SYSTEM

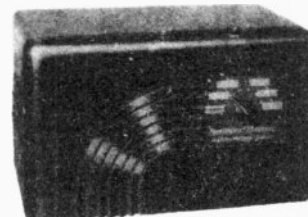


Nothing complicated. Simply Depress the press-to-talk lever speak in a normal voice and you will be clearly and distinctly heard at the substation. The person at the substation can

reply without even approaching the unit. Consists of one R4A and one R5A.

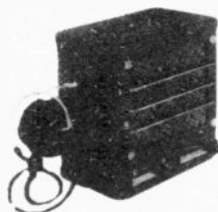
List Price R5A Master..... **\$33.50**
List Price R4A Sub..... **11.00**

SIX STATION JUNIOR SYSTEM

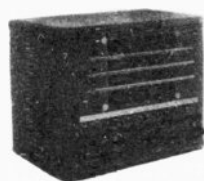


The master station as well as any substation can originate a call. This permits a two way communication between each of the substations. None of the five stations are required to operate a lever to hear the master station.

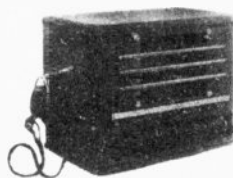
List Price R6A Master..... **\$36.70**
List Price R4B Sub..... **12.80**



SUBSTATION RIF



MASTER STATION R2A



MASTER STATION R2B

MAGNAPHONE 'SENIOR'

The magnaphone senior series comprises a number of master station (R2 type) and substations (R1 type), from which various units may be selected to form communication systems meeting individual requirements.

Master Stations.

The two types of master stations the R2A and R2B, are identical, except for the addition of an earphone on the latter. The basic station can communicate with ten stations and substations in any combination. This can be expanded to take up to thirty stations. Master stations can communicate with each other and with substations. At least one master is required in every system.

Each master station contains an amplifier which can be used on 25 to 60 cycles. Power consumption is low resulting in economical operation. All stations operate through balanced 45 ohm, reducing "cross-talk", and noise and permitting use of these units over considerable distances.

The substation can communicate with the master station only. Various models available with different accessories. See chart.

	List Price
R1A Substation (basic).....	\$ 21.65
R1B Substation (R1A with earphone).....	35.80
R1C Substation (R1A with operating switch).....	24.95
R1D Substation (R1C with earphone).....	39.10
R1E Substation (R1C with station selector).....	27.00
R1F Substation (R1E with earphone).....	41.10
R2A Senior Master Station—10 stations.....	140.00
R2B Senior Master Station (R2A with earphones)—10 stations.....	154.00

All Masters will operate on 25 to 60 cycle current and are supplied with a Terminal Block and 6 ft. of cord making installation very simple. R2A and R2B Masters have the following tube line up 6 SJ7—6F6G—5Y4G. Write for catalogue and information.

WRITE FOR LIST WITH COMPLETE ACCESSORIES.

INTERCOMMUNICATION SPECIALISTS — WRITE FOR DEALERS' DISCOUNTS

WRITE OR COME IN AND TALK IT OVER WITH C.E.S.

Epcol INTERCOMMUNICATION SYSTEMS

★ FLEXIBILITY ★ VALUE ★ QUALITY ★

EPCOL'S DUTIES

1. Saves time. No shouting, no walking, no waiting.
2. Instant contact between departments, personnel, at a flip of a switch.
3. Frees regular switchboard of office calls, lets you get information while you're right on the phone—eliminates call backs.
4. Having trouble with present equipment? Distortion? Not clear? Weak? Expensive to maintain? Then you need an Epcol.

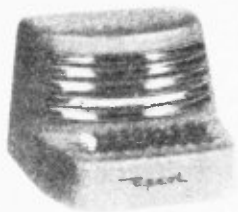
EPCOL'S FEATURES

Attractive appearance.
Steel cabinet Ken-Art finished.
Quick, simple operation.
Busy lights.
Push button control.
Flexible—system may be increased as required.
Privacy—no eavesdropping.
Low maintenance.

Dual volume control.
AC powered 3 stage amplifiers with fixed bias.
40 ohm balanced line systems.
Economical—plate current cut off when units idle.
Easily installed.
Silent in standby.
C.S.A. approved.

SYSTEMS A & C

EP-5 ⁸/₁₇ STATION MASTER



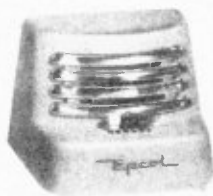
EP-5.8 MASTER—can call or receive from seven other MASTER or SUB STATIONS. Economical where MASTER and 2 or 3 SUB STATIONS are sufficient.

EP-5.17 MASTER—can call or receive from sixteen other MASTER or SUB STATIONS. Where several Masters and a number of SUB STATIONS are required and volume of calls heavy, MODEL EP-5.17 permits the carrying on of conversation between various Master or SUBS simultaneously. See system A and C. Built in amplifier and A.C. operated. Push button switch and chassis independently mounted on a metal base. Speaker enclosed.

	List Price	Your Cost
EP-5.8 Station Master	\$135.00	\$101.25
EP-5.17 Station Master	180.00	135.00

Add \$2.50 for 25 cye.

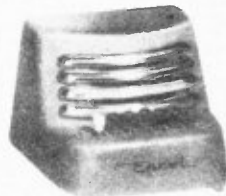
EP5A-1 SUB STATIONS



EP5A-1. Can call one Master Station and receive calls from four. Picks up voice from over 40 feet, brings in message loud and clear. Used in conjunction with EP5. Equipped with Privacy button that prevents eavesdropping by Master Station.

	List Price	Your Cost
EP5A-1	\$29.95	\$22.46

EP5A-5 SUB STATIONS



EP5A-5. Can call and receive calls from five Master Stations without interference from other stations cutting in. Push button selection of Master Station desired. Equipped with Privacy button to prevent eavesdropping. Used in conjunction with EP5 and EP5.5.

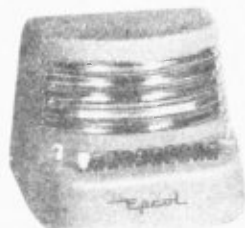
	List Price	Your Cost
EP5A-5	\$39.95	\$29.96

LOOK

Suggested diagrams to meet various applications of these systems are shown on facing page. For further variations consult our experts.

SYSTEM B

EP-9 ⁶/₉ STATION MASTER 18 STATION



Most economical when a number of Master Stations must call each other. Sub STATIONS (which do not originate calls) can be added.

As a single amplifier (EP-9.5) is used in the system conversations are confined between two stations at any one time.

A switch on the Master Station ensures Privacy and prevents other stations overhearing conversations in the vicinity of the unit. Sub stations available with or without the privacy feature. For reference see SYSTEM "B".

	List Price	Your Cost
EP9-18—STATION for an 18 station system	\$99.95	\$74.96
EP9-9 STATION for a 9 station system	69.95	52.46
EP9-6 STATION for a 6 station system	49.95	37.46
EPA9-1 SUB STATION	22.95	17.21
EPA9-1P SUB STATION with privacy feature	24.95	18.71

Add \$2.50 for 25 cye.

EP9-5 AMPLIFIER



The EP9.5 Amplifier is really the heart of the EP9 System, and particular attention has been given to the construction of this unit. It is powerful, three stage AC operated and uses 6N7, 6P6 and 5Y4G tubes, with fixed bias and provides ample volume.

A special circuit cuts off the plate current in the tubes between actual conversations, thereby lowering power consumption, prolonging tube life etc.

The 40 ohm balanced line system permits long distance conversations without loss in volume, objectionable cross-talk or trouble caused by electrical radiations.

	List Price	Your Cost
EP9—Amplifier	\$75.00	\$56.25

Add \$2.50 for 25 cye.

SYSTEM D

EP-25 CALL REGISTERING MASTERS

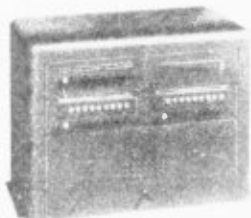
EP-25—Masters are ideal when many calls are made to or from a central location and consists of a Master Station and a number of Sub Stations.

Master Stations are custom made to meet your individual requirements.

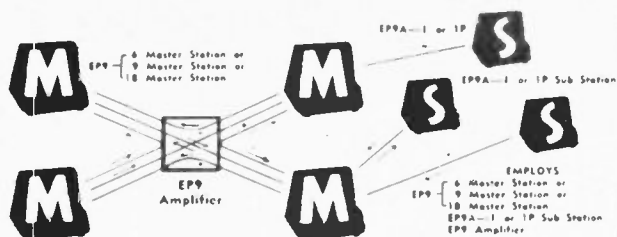
Handsome metal cabinet finished in attractive wrinkle and in addition contains an amplifier similar to the EP9 and a power supply for the buzzer and indicator lights.

Prices on receipt of full particulars of requirements.

Write for complete Epcol catalog.



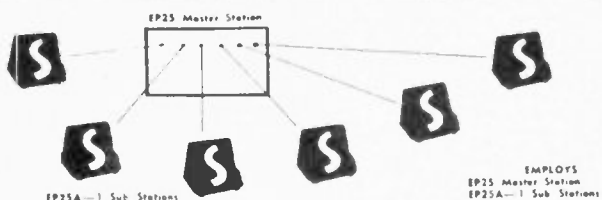
Epcor 4 BASIC SYSTEMS FOR EVERY REQUIREMENT



SYSTEM B SINGLE CALL MULTI-MASTER

Suitable where more Master Stations are necessary (that can call one another) and where Masters may or may not require additional Sub Stations (that can not originate calls). Employs a central amplifier which reduces original cost. Only one call can be made at one time through this system.

Suitable for
Locations where traffic is not heavy



SYSTEM D REGISTERED CALL

Suitable for installations requiring a great number of Stations, or where a number of Sub Stations require the indication of their call when the Master is in use with a prior call (eliminates time loss at Sub Stations 'standing by' for replies as call is registered and will be made by Master when free). It is particularly suitable for hospitals, large warehouses, schools, auto camps, etc. where many outlets and paging facilities are required. An ideal Central Control System for expediting work through garages, factories, hotels, etc.

Hospitals
Garages
Auto Camps

Suitable for
Schools
Shipyards
Warehouses

Institutions
Factories
Wholesales

SYSTEM A SINGLE CALL

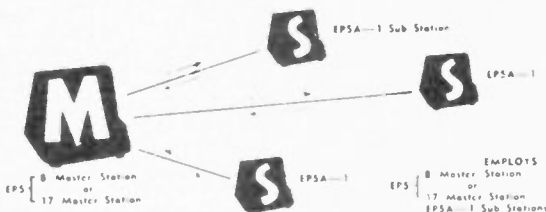
Suitable for small installations where one Master Station is sufficient. Master can call any one of Sub Stations (each of which can call Master but not one another).

System can also be expanded to meet future requirements as in SYSTEM C.

Many Offices
Factories

Suitable for
Stores

Professional Men
Service Stations



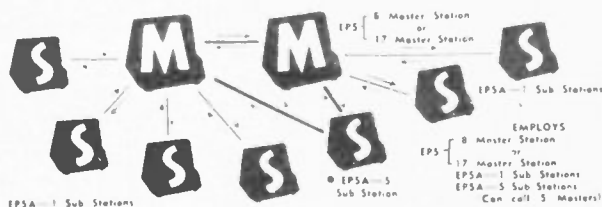
SYSTEM C MULTI-CALL MASTER OR SUB

Suitable where many Master Stations must be able to operate simultaneously. Individual amplifiers in each Master permit use whenever required. Further flexibility incorporated with use of EP5A 5 Sub Stations that can call to any of 5 Masters. This system provides greatest flexibility where traffic is heavy.

Institutions
Stores

Suitable for
Large Offices

Factories
Wholesales



THE INTERCOMMUNICATION SET
EVERYONE CAN AFFORD

Its
"UTILIPHONE"
Built by **STROMBERG CARLSON**

YOU *SPEAK* CONVERSATIONALLY
YOU *HEAR* PERFECTLY



OFFICES

Sales Room to Store Room
... Receptionist to executive
... Doctor to Nurse.

FACTORIES

Switchboard to plant ...
Superintendent to Foreman ...
Shipper to Order Office.

FARMS

House to Barn ... Dairy to
Milk House, etc.

Save steps—save time—save money with this two-station intercommunication system. It's built to commercial standards, incorporating a 3-tube amplifier such as you'd find in a good quality radio set. With the UTILIPHONE you have to plug only the "master" station into any 110 volt D.C. or 110 volt A.C. 25 to 60 cycle electrical receptacle. The other station may be placed wherever you wish since it requires no electric power connection.

For 110V-DC, 110V-AC 25 or 60 cycle,
Two stations with 50 ft. of wire. Complete

Your Cost List Price
\$31.47 \$44.95



University Speakers



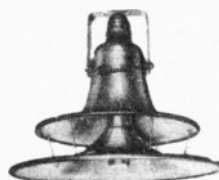
WLC



LH



1B8



RLH



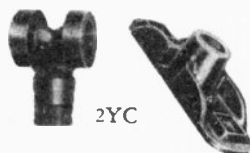
RBP8



PAH



4A4



2YC

PMA

MODEL WLC

High fidelity co-axial speaker designed to meet the increasing demand for waterproof speaker. Includes 12" cone speaker, a unit driven 25 watt tweeter with built in cross over network. Power 25 watts, Impedance 8 ohms, Response 50-10,000 cycles, Dispersion 90°, Diameter 3.3".

Your Cost **\$140.00**

HIGH EFFICIENCY REFLEX TRUMPETS

Reflex construction provides compactness and insures waterproof operation. Rubber damped rims eliminate mechanical resonance. Excellent for reproducing speech and music.

MODEL	GH	LH	PH	SMH
Dispersion.....	90°	90°	80°	75°
Air Column.....	6½ ft.	4½ ft.	3½ ft.	2½ ft.
Low Freq. cut off.....	85 cy.	120 cy.	150 cy.	200 cy.
Diameter.....	30"	25½"	20"	15½"
Height.....	25"	18½"	15"	12"
Your Cost.....	\$55.60	\$35.60	\$23.20	\$19.60

INDUSTRIAL PAGING SPEAKER

Model 1B8 illustrated is one of the most popular "PAGING TALK BACK" speaker available. Weatherproof construction permits outdoor use anywhere. Features high sensitivity on talk back and unusual conversion efficiency.

MODEL	MIL	1B8
Power.....	.5 watts.	.12 watts
Impedance.....	8 ohms standard.	8 ohms
	45 ohms on request	
Dispersion.....	120°	90°
Frequency.....	400 to 9000 cy.	300 to 6000 cy.
Diameter.....	6"	9"
Height.....	7"	9"
Your Cost.....	\$20.00	\$26.00

RADIAL REFLEX PROJECTORS

Reflexed air columns for compactness and excellent frequency response recommend these speakers for all application requiring 360° dispersion of voice or music. Single speaker covers greater area than two or four of ordinary speakers.

MODEL	RLH
Low Frequency cut off.....	120 cycles
Air Column.....	5 ft.
Diameter.....	28"
Height.....	19"
Your Cost.....	\$47.20

RADIAL CONE SPEAKER PROJECTORS

Radial cone speaker—Handsome housing for standard 8" or 12" cone speakers. Infinite baffle design provides excellent low frequency response. Uniform 360° dispersion. Designed for indoor and outdoor use.

MODEL	RBP 12	RBP 8
Frequency.....	uniform down to 50 cycles	uniform down to 80 cycles
Diameter.....	27"	18"
Height.....	11"	9"
Your Cost.....	\$28.00	\$15.68

MODEL 4A4

Super power speaker for concentrated power energy. Compact, rated at 100 watts, it employs 4 driver units. 80° dispersion, 16" diameter. Projection 1 mile.

Your Cost **\$74.40**

BREAKDOWN — PROOF DRIVER UNITS

University driver units are hermetically sealed, incorporate Alnico magnets and indestructible phenolic diaphragms. Rim centering construction gives highest conversion efficiency of any comparable unit. Available in 3 types.

Model	PAH	SAHF	MA 25
Power.....	.25 watts.	.25 watts.	.25 watts
Impedance.....	16 ohms.	16 ohms.	16 ohms
Frequency.....	80 to 6000 cy.	90 to 10,000 cy.	90 to 6000 cy.
Diameter.....	5½"	4½"	4½"
Height.....	5"	4½"	3¾"
Your Cost.....	\$39.60	\$29.60	\$20.00

SPEAKERS ACCESSORIES

	Your Cost
2YC—Connector for connecting two driver units to any trumpet.....	\$4.00
PMA—Adapter attachable to "U" bracket for mounting any trumpet or pipe fittings.....	1.20

CANADIAN ELECTRICAL MEANS EVERYTHING IN RADIO



NEW HIGH FIDELITY TWEETERS

DUAL TWEETER

4402—For greatest result of music and voice use the new University Dual Tweeter. Used in conjunction with any standard 12" speaker in FM and AM frequency it extends response to 15000 cycles. Compact dimensions require a mounting space only 2 3/4" high x 9 1/2" wide. Power handling capacity for dual is 12 watts. Impedance 8 ohms—Horizontal distribution 100°. Vertical distribution 50°.

Your Cost..... **\$32.00**

SINGLE TWEETER

4401—This new high frequency speaker adds the brilliant "highs" so frequently carried through all stages of amplification, only to be lost in the bottleneck of a single unit reproducer. Handling capacity 6 watts, frequency response 2000 to 15000 cycles.

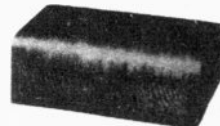
Your Cost..... **\$16.00**

4404 12 watts dual tweeter in cabinet complete with 2 driver units, high pass filter and volume control.

Your Cost..... **\$48.00**

4405 High pass filter and volume control.

Your Cost..... **\$8.00**



NEW HORNS FOR OLD

Don't let an expensive piece of merchandise lie idle. Bring it along to **CANADIAN ELECTRICAL**.

Our experienced repair men are equipped to deal with all types of horn repairs.

Quotations gladly given on request.

LINE MATCHING TRANSFORMERS

For every University Loudspeaker we have a line matching transformer, weatherproof for indoor and outdoor use.

5401—Power, 12 watts. Impedance, (Primary) 500 1000-1500 2000; (Secondary) 8. For use with—MAH, MIL, 1B8, 1BR, RBP8, Standard cone speakers.

Your Cost..... **\$10.00**

5402—Power, 25 watts. Impedance, (Primary) 250 500 1000 1500-2000. (Secondary) 4-8 16. For use with—CR, SAM, PAH, SAD, PAD, RBP-12, WLC, MM-2, MM-2C, Standard cone speakers.

Your Cost..... **\$16.00**

SELECTION DATA FOR PA SYSTEMS

Application	Speaker Model	Function	Approximate Power	Minimum No. Speakers
OFFICES STORES STORAGE STOCK ROOMS	MIL OR 1B8 1BR RBP8 WITH STANDARD 8" SPEAKER	For general paging and announcing. Can be substituted for low efficiency speakers in intercomm. systems. Same as above, but providing 360° distribution. For voice and music. Distribution 360°.	1-3 watts per 1000 sq. ft.	1
FACTORIES (light assembly) SHIPPING — RECEIVING	CR, 1B8 OR SMH WITH MAH RCR PH OR LH WITH SAH RPH WITH SAH OR RBP 12	For general paging and announcing. Same as above, but providing 360° distribution. For voice and music. For voice and music. Distribution 360°	1-3 watts per 1000 sq. ft.	1-2
FACTORIES (noisy)	1B8, CR OR SMH WITH SAH RCR OR RSH WITH SAH PH OR LH WITH SAH OR PAH RPH OR RSH WITH SAH OR PAH	For general paging and announcing. For general paging and announcing. Distribution 360°. For voice and music. For voice and music. Distribution 360°	3-5 watts per 1000 sq. ft.	1-2
NIGHT CLUBS RESTAURANTS, ETC.	RBP8 OR RBP12 WITH STANDARD SPEAKERS	For voice and music. Distribution 360°.	7-15 watts per 1000 sq. ft.	1-2
AUDITORIUMS	PH OR LH WITH SAH LH OR GH WITH PAH	For voice reproduction. For voice and music.	15-30 watts, seating capacity 2000-5000	2
ARMORIES	PH OR LH WITH SAH LH OR GH WITH PAH	For voice reproduction. For voice and music.	40-75 watts (15,000-30,000 sq. ft.)	4-6
ROLLER SKATING RINKS	LH OR GH WITH SAH OR PAH RLH WITH SAH OR PAH	For voice and music. For voice and music. Distribution 360°. Note: GH with PAH preferred for organ music.	75-150 watts 10,000-40,000 sq. ft.	4-8
CARNIVALS, FAIRS POLICE CARS	SMH, PH OR LH WITH SAH OR PAH CR OR 1B8	For voice and music.	5-10 watts per 3000 sq. ft. 5-10 watts	1-2 1
SOUND TRUCKS	LH OR PH WITH SAH OR PAH GH WITH PAH	For voice and music. For voice and better low frequency music reproduction.	15-30 watts	2-4
EMERGENCY TRUCKS	LH OR PH WITH SAH OR PAH	For voice reproduction.	20-30 watts	1-2
SWIMMING POOLS	CR LH OR PH WITH SAH OR PAH	For voice reproduction. For voice and music.	25-50 watts 5000-10,000 sq. ft.	2-4
RAILROAD YARDS	SMH, PH OR LH WITH SAH MM 2, MSR OR MM 2C	For speech. For use as talk back speakers in conjunction with above.	25-40 watts per 5000 sq. ft.	1-2
ATHLETIC FIELDS	LH OR GH WITH SAH OR PAH 4A4, B 6 OR B 12	Column Areas cover grand stands only. For concentrated power, use 2YC Connector at each trumpet with 2 Drivers. For use where great intensities of sound are required at long distances from the speakers.	25-40 watts per 5000 sq. ft. 100-300 watts per speaker	2 1-2
CHURCH TOWERS	LH OR GH WITH PAH RLH WITH PAH LH OR GH WITH 2 PAH AND 1-2YC RLH WITH 2 PAH AND 1-2YC 4A4	For voice and music. One direction distribution. For voice and music. Distribution 360°. For voice and music. One direction distribution. For voice and music. Distribution 360°. For voice and music. One direction distribution. 4A4 may be combined with LH or GH for greater coverage in a particular direction.	20-25 watts per drive unit up to 1/4 mile rad. 20-25 watts per driver unit up to 1/2 mile radius 80-100 watts to 1 mile radius	1 1 1
LOCOMOTIVES	MM 2, MSR, MM 2C	For voice	5-10 watts	1
AIRPLANE BROADCASTING	4A4, B 6 OR B 12	For voice or sound on film. Ground distribution diameter of 1250-3000 ft. plane height 1500 ft.	100-300 watts	1
MINES POWDER FACTORIES HAZARDOUS AREAS	MM-2, MM 2C OR MSR	For voice. Power and number of speakers depend on size and noise level. Minimum requirements: 1 speaker per 1000 sq. ft. for high noise areas.		

COMPLETE UNIVERSITY CATALOGUE SUPPLIED ON REQUEST

SHURE

DYNAMIC AND CRYSTAL MICROPHONES

SHURE SUPER-CARDIOID DYNAMIC MICROPHONES



**MODEL 556
SPECIAL
FOR BROADCAST**

The new Shure Super-Cardioid Dynamic Microphones are Multi-Impedance Microphones—giving you three microphones in one. Gives you a choice of low, medium, or high impedance in one unit. Held within extremely close tolerances in frequency response. Features internally isolated cartridge and external vibration absorbing unit. Model 55 has the same mechanical properties as "556" with the exception of the external vibration absorbing unit.

Following is technical data covering both models: Reduces reflections and reverberation—decreases random noise pickup by 73%. Smooth response from 40 to 10,000 cycles over wide angle at front—dead at rear. Floating moving coil system. Swivel head. "556" has convenient terminals for attaching longer length cables. "55" has built-in connector. Case 4 1/4" high, 3 1/4" wide, 3 1/2" deep.



**MODEL 55
FOR
GENERAL PURPOSE**

Your Cost..... \$70.00

Your Cost..... \$50.00



"SONODYNE"

Multi-impedance dynamic

Features a Multi-Impedance switch for Low, Medium, or High Impedance. High-output of 53 db below 1 volt per dyne per sq. cm. Wide-range frequency response (60-10,000 c. p. s.) and semi-directional pickup. Moving coil unit. Rich Pearl-Gray case. Ideal for general purpose use. Shipping weight 4 5/8 lbs. 20 ft. cable. Mounted at rear for pivoting 90°.

Model "51"—Your Cost... \$30.00



"ECONODYNE"

High-output dynamic

Sturdy, high-quality microphone at low cost. Output 52 db below 1 volt per dyne per sq. cm. High Impedance. Smooth frequency response (60-8,000 c.p.s.) and semi-directional pickup. Provided with single conductor, plastic jacketed attached cable. Ideal for low-cost public address, recording, etc. Cable 15 ft. Ship. weight 2 1/2 lbs.

Model "52"—Your Cost... \$20.00



"MONOPLEX"

Super-cardioid crystal

The only Super-Cardioid Crystal made. High output, 53 db below 1 volt per dyne per sq. cm. High Impedance. "Metal Seal" Crystal—withstanding adverse climatic conditions. "Monoplex" has the same type of acoustic phase shifting network as highest-cost Shure Broadcast Microphones. Uni-directional. Reduces random sound pickup 73%. Case pivoted at rear. Pearl-Gray finish. 20 ft. cable. Shipping weight 4 lbs.

Model "737A"—Your Cost... \$28.40



NEW VERSATEX

The "Versatex," versatile crystal microphone: fits the palm of your hand; needs no desk stand, as it rests on its own base; fits on a floor stand. Features high-output, specially-engineered voice response, frequency of 60-8000 c.p.s. moisture-proof Crystal, shock-proof plastic case, R-F filter. Eliminates mechanical noise pickup. High Impedance. 7 ft. cable. Output 53 db. Your Cost

718A

\$9.20



707A

Two microphones designed to give good-quality performance at low cost. Has good response characteristics, is free from peaks, has typical semi-directional pickup. Uses moisture-proof Bimorph Crystal. Output 53 db.

Model 707A—Your Cost..... \$10.80

708A Stratoliner—Your Cost..... \$20.00

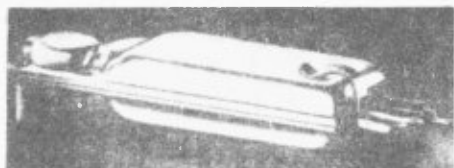


STRATOLINER

PHONOGRAPH PICKUPS AND CARTRIDGES

SHURE

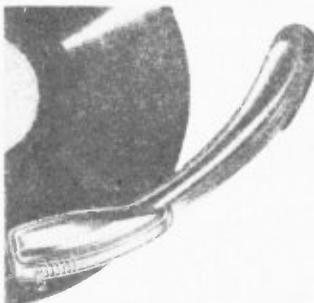
"MUTED STYLUS" CARTRIDGES



The Shure W60 Cartridge fits all standard flat-type pickup mountings—and directly replace the Shure P30. The location of the needle point is similar to that of the standard cartridge when the latter is provided with a full tone needle. Voltage output 1.8 volts.

Model W60B Osmium. Your Cost..... \$5.00
Model W60A Sapphire. Your Cost..... 5.67

"MUTED STYLUS" PICKUPS

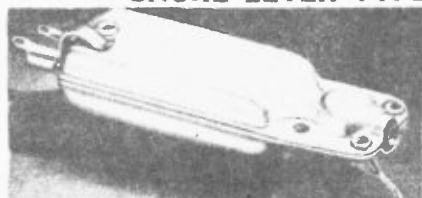


The "Muted Stylus" Crystal Pickups play with amazing needle quietness. A needle force of only 1 oz., high output, and smooth frequency response give the pickups a reproduction never before achieved.

The "Muted Stylus" Pickups are ideal for high-quality home phonographs, coin-operated machines, and all similar applications where shellac or Vinylite records are used. They can be used as direct replacements for many of the old-fashioned heavy-weight crystal pickups. Available with Rochelle Salt or PN crystal.

Model "900". Your Cost..... 5 9.20
Model "900-PN". Your Cost..... 12.40

SHURE LEVER TYPE CARTRIDGE AND REPLACEMENT CHART



Uses new lever construction for driving crystal. Lowest needle point impedance for highest output voltage ever available in crystal cartridges. Aluminum case cartridges will replace steel—reduce needle force of old pickups—permit use of permanent point needles—save needles and records. Pin and jack terminals.

"GLIDER" PICKUP

The Shure gliders are lightweight crystal phonograph pickups with a needle force of only 1½ oz. Reduce surface noise, and reproduce the full tone qualities of the record.

No.	Output at 1000 c.p.s.	Response	Your Cost
93A	1.6	60 6000 c.p.s.	\$6.00
96A	4.3	60 6000 c.p.s.	\$6.80

SHURE Model No.	REPLACEMENT FOR:			Your Cost
	SHURE Model No.	ASTATIC Model No.	WEBSTER Model No.	
W57A 1.6V., — 1 oz.	P87; P93; P87B; P93D; P90D; P93B		N6P; F2P	\$3.70
*W60B 1.8V., — 1 oz.	P30; P87; P93; P87B; P93D; P93B	QF-J; LP-6; LP-21; LP-23; MLP-1-J	N-5; F7P	5.00
W58A 1.6V., — 1 oz.	P92B; P90S; W12A 99-182 P87S; P93S P94	L-22A; L-25A; L-26A L-27A; L-32A; L-40A L-41A; L-70; L-70A; L-70S; L-70AS; L-71; L-71A; L-71S; L-71AS; L-75; L-75A; L-75S; L-75AS; L-76; L-76A; L-76S; L-76AS	E-4; E-9; N-2; N-3; N-4 N6P-4	3.70
W59A 2.5V., — 1 oz.	P88S; W40A; W41A; 99-180; 99-181	L-24A; L-36A; L-50A	N10P; N10P-1	3.70
W56A 4.3V., — 1½ oz.	P89	L-72; L-72A; L-72S; L-72AS; L-46A		4.43

SHURE CARTRIDGE PACK



BUILD NEW PROFITS

Solves service problems with phonographs and record changers... 5 crystal cartridges have been "standardized" to replace 58 different popular types of all makes. The "Pack" contains the 5 Shure Lever-Type Cartridges, including Model W60B with the "Muted Stylus." Specific cross-reference chart for exact cartridge replacement is enclosed in carton.

No. W50A—Your Cost. \$20.53

MILITARY CARBON 100 SERIES

High-quality, carbon microphones designed for military and police equipment. Clear, crisp voice response. Fits snugly into palm of hand. Heavy duty switch for push-to-talk performance. Output level: 32 db below 1 volt for 10 bar speech signal. Net weight 14 oz., 1 pound. Dimensions: 3¼" x 1½" x 2¼".

Relay normally open. Microphone switch normally open.

No. 102C—Your Cost..... \$24.00



LAPEL MICROPHONE

for Public Address, portable transmitters, and all general uses for intelligible reproduction of speech. Graphofoil Bimorph crystal, moisture-sealed. Weighs only 1½ ozs. Response from 40 to 6,000 c.p.s. 17s" diameter. Gray finish. Lapel clip. 25 ft. cable.

Output level: 57 db below 1 volt per bar.

Model 76B—Your Cost... \$21.60



SHURE MODERN DESK STANDS



Streamlined Desk Mount with stable support. Fits Shure connector-type microphones, concealing plug in base. Adapter plate and tubing provided for other type microphones. Removable button at front for installation of ¾" standard bushing switch on volume control. Iridescent Gray finish. Base: 2½" high, 5" wide, 7" long.

Model S36A—
 Your Cost..... \$3.60



MICROPHONE "ON-OFF" SWITCHES

Model A83B. Quickly attached to cable-connector type Shure Microphone. Bakelite arrow knob.

Model A84B. Momentary "On-Off" Switch. Press-to-talk. Bakelite disc.

Model A85C. Momentary Relay-Type Switch. Must be used with two-conductor shielded cable, and only with crystal and high impedance dynamic microphones.

A83A

Your Cost..... \$4.80

A84A

Your Cost..... \$5.60

A85B

Your Cost..... \$8.00



Smooth Power MOTORS for RECORDING PHONOS FANS

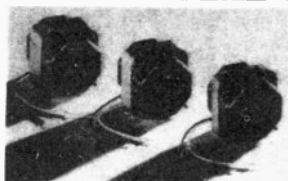
ALLIANCE Even Speed Phonomotors

MOTORS THAT MEET 95% of all replacements

SPECIFICATIONS:

Available for operation on both 60 and 25 cycle, at 78 R.P.M. and 33 $\frac{1}{3}$ R.P.M. Simple and quiet in operation — no gears — smooth positive friction rim drive. Motor and idler plate shock mounted to mounting plate, for low vibration transfer to turntable and motor board. Maximum depth below base mounting plate, 2 $\frac{1}{8}$ " 9" turntable.

Model No.	Old No.	Volts	Cycle	R.P.M.	T-T Diam.	List Price	Your Cost
MP 06601	80	110	60 cy.	78	9"	\$ 7.40	\$4.45
MP 06604		110	60 cy.	33 $\frac{1}{3}$	9"	8.64	5.15
KP 08201	K	110	25 cy.	78	9"	9.35	5.60
KP 08204		110	25 cy.	33 $\frac{1}{3}$	9"	10.60	6.35



HEAVY DUTY RECORDING MOTORS

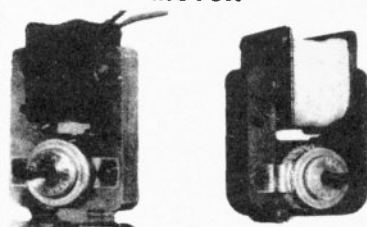
For disc, wire and tape recorders, as well as numerous other uses. It has self aligning pre lubricating porous bronze bearings, the shaft $\frac{3}{8}$ " diameter extending either, or both ends. Frame 3 $\frac{3}{8}$ " square. Rotation either clockwise or counter-clockwise.

Model	Type	H.P.	R.P.M. 25 cy.		R.P.M. 60 cy.		Your Cost
			N.L.	Rated	N.L.	Rated	
B75	Shaded Pole 60 cy	1/250-1/70	710	600	1720	1600	\$11.75
D75	Capacitor 25 cy	1/100-1/50	1420	1350	3420	3200	11.25
B12	Shaded Pole 60 cy	1/150-1/50	710	600	1720	1600	12.00
D12	Capacitor 25 cy	1/70-1/30	1420	1350	3420	3200	15.00
B18	Shaded Pole 60 cy	1/90-1/20	710	600	1720	1600	17.82
D18	Capacitor 25 cy	1/60-1/15	1420	1350	3420	3200	18.75



Good News!

ALLIANCE GP SHADED POLE INDUCTION MOTOR



Motors for a hundred uses. Advertising displays, toys, fans, business machines are but a few of the tasks handled simply and economically by model K and its smaller brother of model M. Built for operation on all standard voltages and frequencies. Shaft .1717/1720 inches precision ground steel, and $\frac{3}{8}$ " long. Weight 27 ounces to 40 ounces.

Model Your Cost
MS—60 cycle standard or fan winding... **\$3.00**
KS—25 cycle standard or fan winding... **4.50**



PHONO & CHANGER MOTORS



SINGLE SPEED RECORDER



Model G1-R70L

Operating at 78 r.p.m. this unit cuts records up to 10" and plays up to 12" diameter. Simple cutter feed mechanism. Convenient depth of cut adjustment on top of arm. Heavy duty 4-pole rim drive induction motor. Brown indolent finish. Assembly includes 10" weighted turntable; cutting mechanism; crystal pick up. Dimensions base plate: 16" long, 10" wide.

Your Cost
Model G1-R70L—60 cycle only... **\$41.05**

DUAL SPEED RECORDER



Model G1-R90L

Cuts records up to 10", plays up to 12" at both 78 r.p.m. or 33 $\frac{1}{3}$ r.p.m. Turn of the dial changes speed. Stream line plastic cutting and play back arms. Convenient depth of cut adjustment. Dynamically balanced 4 pole rim drive motor. Assembly includes dual speed motor, 10" weighted turntable crystal pick up; cutting mechanism, arm rests; steel base. 15" long, 11 $\frac{1}{2}$ " wide.

Your Cost
Model G1-R90L—60 cycle only... **\$48.45**

COMBINATION RECORDER AND RECORD CHANGER

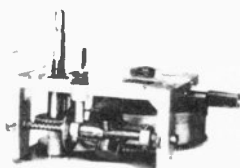


Model G1-RC130L

Cuts records up to 10". Plays twelve 10" or ten 12". Only necessary to lower cutting arm over record disc to start recording operation. Convenient depth-of-cutting adjustment on top of cutting arm. Turntable has retractable record driving pin. Changing mechanism is quiet and positive in operation. 10" weighted turntable. Base plate 14" x 14" x $\frac{3}{8}$ ".

Your Cost
Model G1-RC130L—60 cycle only... **\$72.70**

MASTER JUNIOR SINGLE SPRING MOTOR

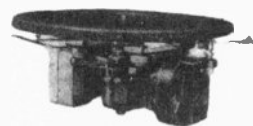


Plays two 10" selections at one winding. Quiet uniform speed. Furnished with 9" turntable, winding crank, turntable brake dial and pointer speed regulator screws and washers. 5 $\frac{3}{8}$ " long, 4 $\frac{1}{4}$ " wide, 2 $\frac{3}{4}$ " deep.

Your Cost... **\$10.25**

GREEN FLYER DUAL SPEED MOTOR

Powerful, governor controlled, shaded pole, induction, gear drive motor with two speeds, 33 $\frac{1}{3}$ r.p.m. and 78 r.p.m. Enclosed silent helical cut gears, running in sealed oil bath. With 10" or 12" turntable. 115 volts.



50-60 cycles only Your Cost... **\$26.70**

BUY NOW — KEEP YOUR STOCK UP TO DATE

TURNER MICROPHONES *for Certified Performance*

GENERAL PURPOSE MICROPHONES

22X-22D Crystal or Dynamic



22X Crystal gives clear reproduction. Cuts feed back to minimum. 90° tilting head. Crystal impregnated against moisture in mechanical-shock proof mounting. Level -52DB. Range, 50-9000 cycles. Complete with 7 ft. removable cable set. Chrome type finish. Your Cost, **\$16.80**

TURNER 22D DYNAMIC

Same appearance as 22X but has high level dynamic cartridge. Range, 50-9000 cycles. Level -54DB. **200 ohms, 500 ohms, or high impedance**. Your Cost, **\$21.42**
30-50 ohms - Your Cost, **\$19.75**

"FIRE PERFORMANCE" Model 999

Most rugged microphone in the entire Turner line. Adjustable saddle. Equipped with Balanced Line features for critical applications and professional results under all conditions. Range, 40-9000 cycles. Level -52DB. Complete with 20 ft. balanced low capacity removable cable set. 3 pin polarized locking connection.



200 ohms, 500 ohms, or high impedance

Your Cost, **\$31.50**

30-50 ohms -

Your Cost, **\$29.40**

34X CRYSTAL

An ideal all around semi-directional crystal Mike for use where feedback and acoustic conditions are unusually difficult. 90° tilting head permits tilting to most advantageous position to reduce audience noise and background disturbances. Built for hard usage indoors or out; utilizes a moisture proof crystal, and is blast and mechanical-shock proofed. Range, 50-10,000 cycles. Level -52DB. Chrome type finish. Complete with 20 ft. removable cable set. Your Cost, **\$24.36**



MAGNETIC PICK-UP, FOR MUSICAL INSTRUMENTS MODEL MM



Gives immense volume from any stringed instrument without feedback. Variable volume control built in. Level ± 2 DB from 30-10,000 cycles.

MODEL MM Your Cost, **\$15.12**
Without Vol. Control Your Cost, **\$13.23**

"MIP DELUXE"

MAGNETIC CONTACT PICK-UPS FOR MUSICAL INSTRUMENTS



"MIP DELUXE"—Turner's newest pick-up. High level ALNICO V circuit. Gives immense volume and tone from string instrument. Easily installed. High impedance output. Polished chromium finish. Complete with built in volume control, 20 ft. shielded cable, and mounting device.

Model MIP Your Cost, **\$19.74**

"New" CHALLENGER MODELS

BX CRYSTAL

Ideal for recording, P.A., and amateur work. Attractive bronze enamel finish. High level -52DB. Range, 50-6000 cycles. Complete with 7 ft. cable.

MODEL BX.

Your Cost, **\$9.11**

CX CRYSTAL

Chrome type finish, with 7 ft. removable cable set using Amphenol connectors Level -52DB. Range, 50-7000 cycles. A real value.

MODEL CX.

Your Cost, **\$13.65**



NEW MODERN HAND MICROPHONES FOR GENERAL PURPOSES



15X CRYSTAL **15D DYNAMIC** - For public address, police communications, speech recording, and broadcasting where hand held microphones are required. Finished in attractive gunmetal and equipped with 20 ft. attached shielded cable. "Push-to-talk" thumb switch optional at **\$2.10 extra**

15X Crystal, Level: 52 db below 1 volt / dyne sq.cm. Response: ± 5 db from 40-8000 c.p.s. Humidity sealed crystal.

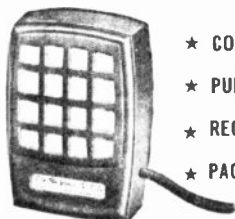
Your Cost, **\$21.00**

15D Dynamic. For more severe operating conditions. Level: 54 db below 1 volt dyne sq. cm. at high impedance. Response: ± 5 db from 40-7000 c.p.s. 200 ohms, 500 ohms or high impedance. 50 ohms.

15D-LO Your Cost, **\$23.10**
15D-HI Your Cost, **\$25.20**

Electro-Voice CENTURY

New Multi-Purpose Microphone



- ★ COMMUNICATIONS
- ★ PUBLIC ADDRESS
- ★ RECORDING
- ★ PAGING

LOW PRICE SPECIAL

A few outstanding modern crystal microphone which sets a new pace in low price field. Excellent frequency level, high level and mounting flexibility. Die cast metal case. Output—50 db, frequency response 60-7500 cps. Moisture sealed, high impedance crystal. Finished in lustrous grey brown. Size 3 1/2" x 2 1/4" x 1 1/2". Weight 6 ozs. With 7 1/2 ft. shielded cable and stand adapter.

Model 915—Century Crystal Microphone. Your Cost, Only, **\$8.00**

A M P E R I T E FOOT PEDAL and KONTAK MIKES FOR MUSICAL INSTRUMENTS

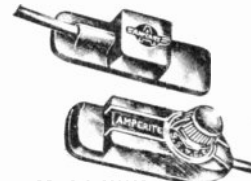


Model KF

Improves Tone and Volume of any Violin, Bass, Piano, Guitar, etc.



Model SKH



Model KKH

FEATURES:—

Gives large beautiful tone without distortion. Free from peaks. Can be used with any high-gain amplifier, 90 db. or more (including all electric amplifiers).

SPECIFICATIONS:—

Model SKH—High Impedance, **\$ 9.60**

Frequency range 40-9,000 cps. Output 40 db.

Model KKH—With Hand Volume Control, **\$14.40**
Model KF-Foot Pedal Only, **\$14.40**
Low impedance available in model SKH at same price.

MAKE C.E.S. YOUR P.A. HEADQUARTERS

ASTATIC

MICROPHONES

RECORDING HEADS AND

THE LATEST IN CARTRIDGES

QT Type. Cuts surface noise to a minimum. Equipped with a removable needle. Replaces MLP-1, MLP1J, and MLP2. It has an extremely wide frequency response. QTM has a precious metal needle tip and QTJ has a sapphire tip.

LT1MA. Low needle talk, low pressure cartridge, made of stamped aluminum. A new high standard of quiet quality reproduction with low price. Using type T matched replaceable needle. 3/4 oz pressure.

Model No.	Output Voltage	Cutoff Frequency	Your Cost
QT3MA	.85	50-10,000	\$5.10
QT3JA	.85	50-10,000	5.40
LT1MA	1.00	50-10,000	4.20

CRYSTAL REPLACEMENT CARTRIDGES

Model No.	Output Voltage	Needle Pressure	Cut of frequency C.P.S.	Your Cost
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TYPE "L" SERIES

L-24A	2.95	2 3/4 oz.	50 to 6,500	\$3.30
L-26A	1.4	2 3/4 oz.	50 to 4,500	2.70
L-40A	0.6	1 1/4 oz.	50 to 4,500	2.70
L-46A	3.5	1 1/4 oz.	50 to 4,000	4.15

TYPE "M" SERIES

M-22	2.9	2 3/4 oz.	50 to 6,500	3.30
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TYPE "B" SERIES

B-2	2.5	2 3/4 oz.	50 to 4,000	3.30
B-4	2.5	2 3/4 oz.	50 to 4,000	3.30

TYPE "L-70" SERIES

L-70A	1.00	1 1/4 oz.	50 to 4,000	3.30
L-71A	1.00	1 oz.	50 to 8,000	4.05
L-72A	3.5	1 1/4 oz.	50 to 4,000	4.05
L-75A	0.75	1 1/4 oz.	50 to 6,000	3.30
L-76A	1.00	1 1/4 oz.	50 to 3,000	3.30

TYPE "NYLON" SERIES

Nylon I-J	1.0	1 1/4 oz.	50 to 10,000	5.40
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ASTATIC RECORDING HEADS

Model No.	Type	Driving Volt. R.M.S.	Useful Upper Limit C.P.S.	Your Cost
X26	Cry.	75	5000	\$9.60
X29A	Cry.	120	6500	9.60
C42	Cry.	75	5000	9.60
M41-8 (8 ohms)	Mag.	3	7000	9.60
M41-500 (500ohms)	Mag.	22	7000	9.60

MATCHING TRANSFORMER-LINE TO CRYSTAL CUTTER

A matching transformer, for line to crystal cutter. Primary impedance, 15,500 ohms, secondary impedance 60,000 ohms. Dimensions, 2 1/4 x 3 1/4 x 2 3/4. Weight 1 lb 4 oz.

Model T-26.....Your Cost.....\$5.85

THE TORONTO

The "Toronto" Model No. 600 is a new streamlined, semi-directional crystal microphone with relatively high output and wide frequency range. Ideal for public address and paging systems, amateurs' rigs and other communication uses. Overall frequency response is exceptionally smooth up to 10,000 c.p.s. and will satisfy the most critical demands for high fidelity performance. The Toronto is of modern streamlined design and beautifully finished in bright chrome with light blond plastic grille. Standard equipment includes 25 ft. cable and spring protector.

Model	Your Cost
600	\$18.00
600-S—with S Switch	19.65
G-600—with G-Stand	21.30

WR SERIES CRYSTAL

Multi-Unit Microphones are highly recommended for studio, public address and high quality recording purposes. Substantially flat frequency response up to 10,000 cycles. Transparent to sound waves and cannot be acoustically overloaded. Model WR-20 may be used on cable up to 100 ft. with negligible loss of output and Model WR 40 is more than able to handle cable twice this length. Output level —56 db. Finish, bright chrome with satin chrome grille. Cable length, 25 ft.

The WR-20 has 2 cartridges and the WR-40 has 4 cartridges giving greater coverage.

Model	Your Cost
WR-20	\$24.30
WR-40	32.40

(Available with S-Switch or G-Stand)

THE D104 CRYSTAL

For close talking applications, such as radio amateur communications and similar uses. High output level—48 db. reduced R.F. feedback tendencies. New type yoke-driven, bridge-mounted Graphoil crystal element, improved shock-proof mounting and barometric compensation. Speech range frequency response from 30 to 7,500 rising 500 to 4,000 cps. Bright chrome finish. Standard equipment includes interchangeable plug and connector, spring cable protector.

Model	Your Cost
D-104	\$18.45
GD-104—with G Stand	22.65
D-104-S—with S Switch	20.55

THE T3 CRYSTAL

Highly practical for many and varied applications. Is suggested for studio set ups, with amateur rigs, inter-communicating systems, public address installations and for high class recording purposes. Microphone head may be tilted with ease on unique swivel mounting and pickup pattern made semi- or non-directional, as desired. Output level -52 db. Frequency response 30 to 10,000 cycles. Interchangeable plug, socket connector, 25 ft. cable. All chrome finish.

Model	Your Cost
T-3	\$20.55
T-3-S—with S Switch	22.65
GT-3—with G-Stand	24.60

and PICKUPS ACCESSORIES

ASTATIC

VELVET VOICE BEAUTY

An excitingly new type Crystal Microphone. Performance—Ultra smooth, velvety soft. Wide range response from 30 to 10,000 c.p.s. Output level 50 db below 1 Volt per bar. Recommended load impedance 5 Megohms. Beautifully finished in gold case, trimmed with chrome. Cable length, 15 ft.

Model	Your Cost
200	\$10.50
200S	11.25
S Switch	.75



THE N-SERIES CRYSTAL

Especially desirable for modern public address installations. Swivel joint, tilting head permits adjustment to either semi directional or non directional position. Four models are available. N-30 Models with output level -52db, are high fidelity, 30 to 10,000 cycles. N-80 Models, output level -49db, with rising response to 3,000 cycles. Finished in gray and chrome. Complete with 15 ft. cable.

Model	Your Cost
N-30—Wide Range	\$14.40
N-80—Voice Range	14.40
N-30-S—with S Switch	16.50
N-80-S—with S Switch	16.50



THE DYNAMIC

Model "DN" is a semi directional, all-purpose dynamic microphone incorporating a new unitary moving coil system, and carefully proportioned acoustic circuit to highly damp the natural resonance of the moving system and provide a response characteristic substantially flat from 50 to 7,000 cycles. The "DN" design employs all features necessary for wide applicability, including Astatic's tilting head, swivel mount, permitting semi or non directional positions. Opalescent gray and bright chrome finish.

Model	Your Cost
DN-50 (50 ohms)	\$16.50
DN-200 (200 ohms)	18.45
DN-500 (500 ohms)	18.45
DN-HZ (5 meg.)	18.45

All models available with G-stand.



LAPEL MODEL

Very small dual diaphragm crystal microphone developed to meet especially difficult pick up conditions. Includes lapel type spring clip and over-shoulder cord to permit wide latitude of movement. Output level 62db. Frequency response 30 to 10,000 c.p.s. Finish, statuary bronze. 25 ft. cable.

Model L-1.	Your Cost.....	\$20.55
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CRYSTAL PICKUP TONE EQUALIZER

Model E4P is an adjustable tone compensation network, for use between crystal pickup and amplifier. Single hole mounting. Dimensions, 2" x 3 1/2". Chrome and black finished. For use with all crystal pickups. Complete instructions supplied.

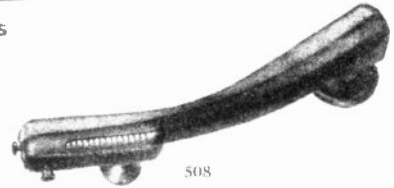
Model E4P	Your Cost.....	\$2.55
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LOW PRICED CRYSTAL PICKUPS NYLON

Designed for quality reproduction of 10" and 12" records, or as replacements for existing equipment. Model 508 employs Astatic's new and dependable L-71 replaceable needle type crystal cartridge.

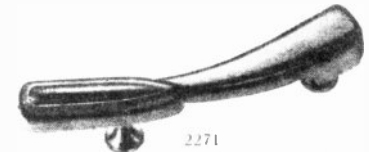
Model	Your Cost
Nylon 508	\$13.80
508	12.15



DANFORTH

Newly styled, carefully designed Crystal Phonograph Pickup, low cost with high performance standards. Intended primarily for new applications in manual record player or the improvement of existing equipment. Employs L-40 Crystal Cartridge.

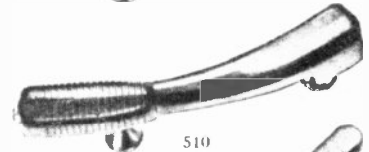
Model 2271	Your Cost	\$3.00
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MODEL 510 PICKUP

Designed for use with manually operated players using 10" and 12" records. Short mounting centers. Ideal for compact or portable equipment. Axiad cushioned arm. Flanged base. New Design. Light brown finish.

Model 510	Your Cost	\$5.70
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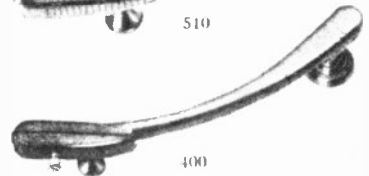


HIGH QUALITY MODELS

STUDIO MASTER "400"

New, streamlined, is intended primarily for broadcast and recording studio use, and incorporates all the advantages of low pressure design and operation. For use with all lateral transcriptions. New type, adjustable-height, swivel base.

Model	Your Cost
Nylon-400	\$18.75
400	18.75



LOW PRESSURE CRYSTAL

Designed for high standard phonograph performance low pressure crystal pickup with built in jewel tipped stylus. The FP-8 uses L-P 6 Cartridge frequency response 50 to 1500 c.p.s. The FP-18 uses L-P 21 Cartridge, frequency response 50 to 7000 c.p.s. The FL-48 uses L-40 Cartridge Frequency response 50 to 1500 c.p.s.

Model	Your Cost
FP-8	\$13.80
FP-18	13.80
FL-48	10.50



FP-8, FP-18,
FL-48

DE LUXE TRANSCRIPTION

Popular pickup with full base and brilliant highs, free from distortion and surface noises. For use on 10" and 12" records. Range 50 to 1000 c.p.s. AB 8M designed for mobile use.

Model AB-8.	Your Cost	\$ 8.40
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Model AB-8B.	Your Cost	8.40
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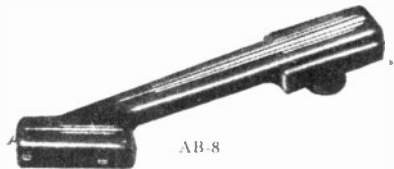
Model AB-8M.	Your Cost.	10.50
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Model S-8, using B-2 cartridge is designed for 10" and 12" discs. Frequency response 50 to 400 c.p.s. S-12 designed for 16" records, using B-2 cartridge. The HP-16 with frequency response 50 to 7000 c.p.s. is for use with 12" and 16" records.

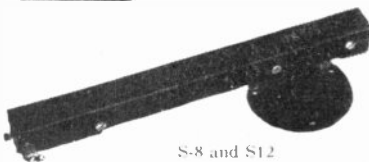
Model S-8.	Your Cost	\$ 8.40
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Model S-12.	Your Cost	10.50
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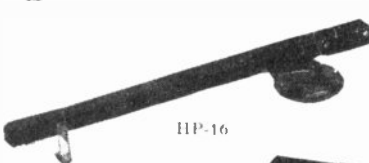
Model HP-16.	Your Cost	20.55
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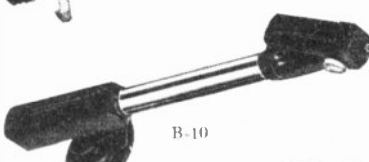
AB-8



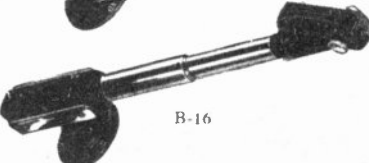
S-8 and S12



HP-16



B-10



B-16

PROFESSIONAL

The B-10 is designed for standard 10" and 12" recordings and gives high quality reproduction. B-16 is a professional type studio model, for lateral transcriptions up to 16". Both have rotating head, ball bearing base, and employ the B-2 Cartridge.

Model B-10.	Your Cost	\$14.70
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Model B-16.	Your Cost	18.75
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**NO SLIPPING • NO SCRATCHING
NO RATTLE • NO NOISE**

"Velvet Action"
MICROPHONE STANDS

"VELVET ACTION" MICROPHONE STANDS



Single-hand control is possible after the Clutch has been adjusted to the weight of the microphone. Velvet Action Protection Feature offers positive assurance against sudden dropping of the telescoping tube, and consequent damage of the microphone. The new improved pump-action seal also eliminates highly objectionable rattle between tubes. Tubes finished in super-chrome, height 35" to 65".

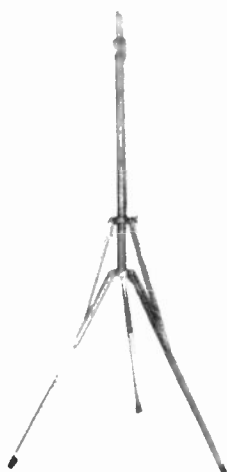
Model MS-11C — Full chrome base.

Your Cost..... **\$9.57**

Model MS-12C — Gun Metal crackle Base.

Your Cost..... **\$8.07**

COLLAPSIBLE MODEL CS-1



**THE LAST
WORD IN
TRIPOD
STAND
WEIGHT
5 LBS.**

•
**BASE
Collapsible
TRI-POD**

•
**FINISH
FULL
CHROME**

•
**MINIMUM
COLLAPSED
23 INCHES**

•
**MAXIMUM
OPENED
62 INCHES**

Model CS-1—Your Cost..... **\$14.28**

THREE-SECTION COMBINATION FLOOR AND BANQUET STAND

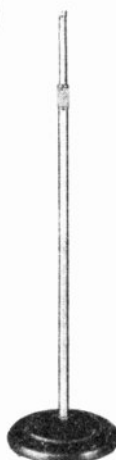


Ideal for portable equipment. Collapsed length of upright is 24". Base is 9 1/2" in diameter and approximately 2" high. Fits all microphones with 3/8"-27 thread. Rattle proof construction. Easy to operate. Adjustable height, 26" to 64". In low adjustment makes ideal banquet table stand.

No. A63.

Your Cost..... **\$12.50**

De Luxe and Professional "Velvet Action" Stands



MS-20
Your Cost
\$11.76

These stands are designed for the most critical user. A new type "Full-Grip", non-slip, non-jamming clutch is supplied on both models. Tube finish chrome. MS-24 base combination of chrome and gun-metal shrivel. 3/8"-27 Microphone thread.

Model Weight
MS-20 15 lbs.
MS-24 24 lbs.

Heavy Oversize Tubes 1 1/4" base tube
3/8" inner Tube 12"
Diameter Base
Special Non-Tip
Design.



MS-24
Your Cost
\$16.38

ADJUSTABLE BANQUET STAND



Uses full size tubing and clutch mechanism as floor stands. Chrome tubes and gun-metal shrivel finished base. Base diameter 8". Total weight 5 lbs.. Adjustable from 18" to 32". Anti-scratch, vibration absorbent pads included.

MODEL TS-6—Your Cost.. **\$5.87**

FLEXIBLE GOOSE NECK

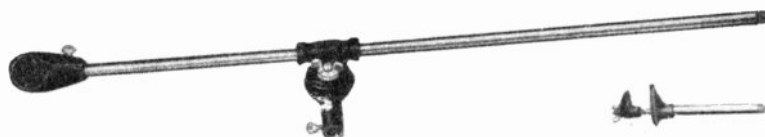


Can be attached to any floor or desk stand. For use where some amount of microphone overhang is required. Thread 3/8"-27 male and female each end. Finished in bright super-chrome. Total length 13".

Model GN-13—Your Cost
\$1.59

"BABY BOOM" EXTENSION ARM AND BRACKET CLAMP

Versatile — Convenient — Flexible — Attractive
The answer to difficult mounting problems



"Baby Boom" equipped with a universal swivel and easily attached to any microphone stand or to the BC-1 Bracket Clamp. The BC-1 has a multitude of useful applications.

SPECIFICATIONS: Tube Section 32" long, Chrome-plated, Thread 3/8"-27.

Model BB-1—Your Cost..... **\$5.88**

SPECIFICATIONS: Tube Section 6" long, Chrome-plated, Thread 3/8"-27.

Model BC-1—Your Cost..... **\$2.40**

SPEAKER'S OR ORCHESTRA STAND

Model MU-1
**A PROFESSIONAL
STAND**



This professional stand is an item which has long been required in many permanent, as well as rental installations. A microphone can be directly attached to the desk by using a BC-1 Bracket Clamp or a BB-1 Boom Arm. Adjustable in height and desk angle. Sturdy construction, non-tipping base. Desk size 20" x 15", base 15" diameter, weight 20 lbs. **MODEL DA-1.**
Your Cost... **\$8.01**

"VELVET" ACTION DESK STANDS



DS-5

Embody the same precision as used on floor models. All tubes brass chrome-plated... base finish gun-metal shrivel... Non-adjustable model 7" high... Adjustable model 8" to 13"... all bases equipped with shock absorbent, non-scratch pads. New style functionally designed base offers maximum stability.

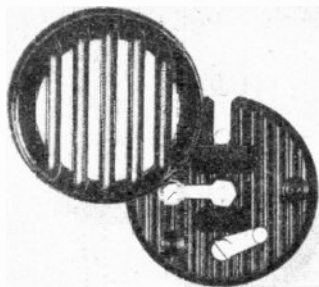
Model DS-5—(non-adjustable)..... **\$2.31**
Model DS-7—(adjustable)..... **3.78**

ASK FOR WHAT YOU DO NOT SEE IN OUR CATALOGUE

RECORDERS • MICROPHONES • STANDS

UNIVERSAL CARBON MICROPHONES

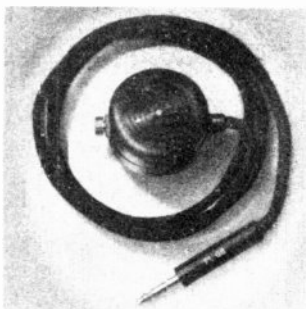
NEW POCKET-WATCH SIZE
UNIVERSAL A174 CARBON MICROPHONE



MODEL A174

Smaller than a pocket watch and weighs less than an ounce! Well insulated, highly sensitive. Ideal for dictaphone, nidget transmitter, call systems and experimental use. Single button. Illustrated instruction folder. Impedance: 200 Ohms. Lev-1-121DB (6mw/100 bars). Diameter 1 3/8 inches thickness 1/2 inch. Shpg. wt. 2 ozs.
No. A174—Your Cost. \$3.20

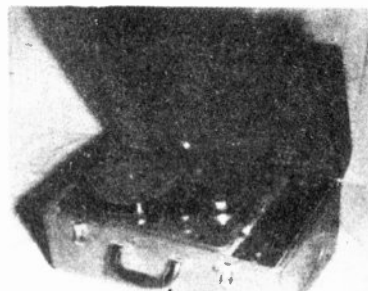
SPECIAL COMMUNICATIONS TYPE
UNIVERSAL "CU" CARBON MICROPHONE



**MODEL CU-1
With 3-Way Phone Plug**

Designed for private aircraft, police and all types of mobile and marine applications. Picks up essential voice frequencies, rejects background noise. Level: 30 v. RMS from microphone transformer. Press-to-talk switch. Push-in mounting bracket furnished. Shpg. wt. 3/4 lb.
Your Cost:
Model CU-1 with 3-way phone plug \$ 8.40
Model CU-2 with 3-way switchboard plug 10.00

WIREWAY— SOMETHING NEW IN RECORDERS



ONLY WIREWAY HAS ALL 12 VITAL FEATURES

1. Recordings are made on Wire—which is cheaper, less cumbersome and does not break as easily as discs.
2. Recordings last indefinitely.
3. Same wire used over and over again.
4. Undesired sections, or all can be erased.
5. Automatic shut-off.
6. You can edit the recordings with scissors.
7. Recording direct from radio.
8. You can play regular phonograph records.
9. Two motors assure constant speed, and fast rewinding.
10. You can record two way telephone conversations without tapping wires.
11. Can be used as a public address amplifier.
12. Can be used as a miniature radio station whose signal can be picked up by any radio within 150 ft.

The Wireway is better for:

- ★ EDUCATION
- ★ PLEASURE
- ★ BUSINESS

Portable, complete with crystal mike, 4X6 oval speaker, 2 half hour spools of wire in a sturdy morocco style, leatherette covered case, less pickup arm. 60 cycle only.

List Price..... **\$199.50**
Your Cost..... **139.65**

WIRE MEASURING OUTFIT Counter Model



Here is a compact, sturdy wire measuring outfit that can be set up easily on counter, bench or table. Measures up to 1000 feet. Very simple to set up reel and operate. Take-up reel is adjustable.

No. 66. Your Cost..... \$85.00



MICROPHONE STANDS AND ADAPTERS



**MODEL
F - 11
8 FT. CABLE**



**MODEL-F
STAND WITH
CONNECTOR**



**MODEL-G
STAND WITH
CONNECTOR**

MODEL	FINISH	HEIGHT	THREAD	YOUR COST
G Grip-to-talk	Chrome & Gray	8 1/4"	5/8"-27	\$8.25
F Desk	Chrome & Gray	8 3/4"	5/8"-27	4.95
F-11 Adapter				2.70

Good News — FOR YOUR BROKEN MICROPHONES



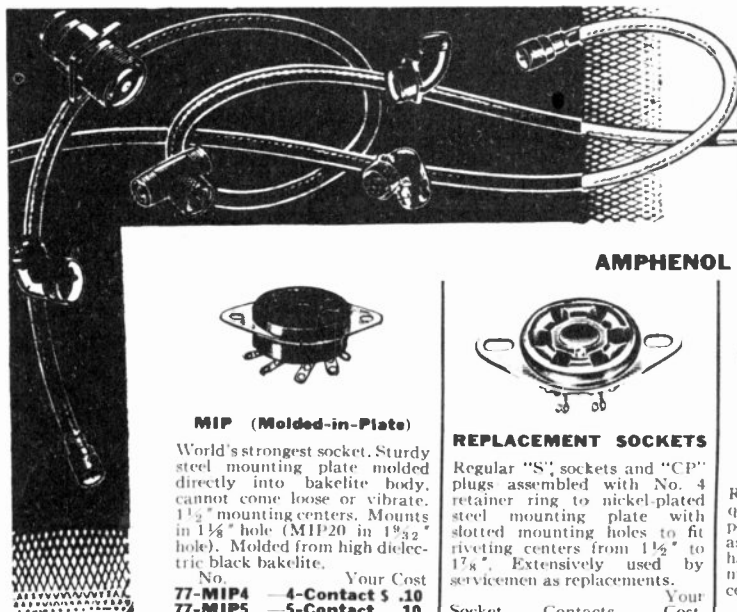
**RELIABLE TECHNICAL REPAIRS
LET US LOOK AFTER YOUR REPAIRS!**

We are fully equipped to carry out every variety of repair in our technical laboratory.

***AMPLIFIERS *MICROPHONES *LOUDSPEAKERS**

ESTIMATES ON REQUEST — QUICK, EFFICIENT SERVICE

ASK ABOUT OUR EASY TIME PAYMENT PLAN



AMPHENOL

RADIO COMPONENTS

Sockets for every type of tube,
phone tip, or crystal

AMPHENOL SOCKETS



MIP (Molded-in-Plate)

World's strongest socket. Sturdy steel mounting plate molded directly into bakelite body. cannot come loose or vibrate. 1 1/8" mounting centers. Mounts in 1 1/8" hole (MIP20 in 1 3/8" hole). Molded from high dielectric black bakelite.

No.	Your Cost
77-MIP4 — 4-Contact	\$.10
77-MIP5 — 5-Contact	.10
77-MIP6 — 6-Contact	.10
77-MIP7L — 7-Large	.12
77-MIP7S — 7-Small	.10
77-MIP8 — 8-Octal	.12
77-MIP9 — 9-Contact	.15
77-MIP11 — 11-Contact	.20
77-MIP12 — 12-Contact	.24
77-MIP20 — 20-Contact	.49
88-8x — Loktal Socket	.17



REPLACEMENT SOCKETS

Regular "S" sockets and "CP" plugs assembled with No. 4 retainer ring to nickel-plated steel mounting plate with slotted mounting holes to fit riveting centers from 1 1/2" to 1 7/8". Extensively used by servicemen as replacements.

Socket	Contacts	Your Cost
78-RS-4 — 4-Contact		\$.12
78-RS-5 — 5-Contact		.12
78-RS-6 — 6-Contact		.12
78-RS-7S — 7-Small		.12
78-RS-7L — 7-Large		.12
78-RS-7C — 7-L & S		.15
78-RS-8 — 8-Octal		.15
78-RS-9 — 9-Contact		.18
78-RS-11 — 11-Contact		.24
78-RS-8L — Loktal		.18



STEATITE SOCKETS

Recommended for high frequency work where high temperatures are encountered such as in transmitters, amplifiers having high output, etc. Slotted mounting holes fit riveting centers from 1 1/2" to 1 7/8".

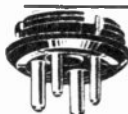
With Plate	Contact	Your Cost
49-RSS4 — 4-Contact		\$.39
49-RSS5 — 5-Contact		.39
49-RSS6 — 6-Contact		.39
49-RSS7S — 7-Small		.39
49-RSS7L — 7-Large		.49
49-RSS8 — 8-Octal		.39



BULB TESTER SOCKETS

A standard 7-contact combination socket for large and small 7-prong tubes and has a large center contact for testing miniature bulbs, either screw or bayonet base types.

No. 78-7CD—with Retainer Ring.	Your Cost
.....	\$.43
No. 78-RS7CD—with Mounting Plate.	Your Cost
.....	\$.44



"CP" Plug

PLUGS FOR MULTI-WIRE RECEPTACLES

For quick, easy assembly to chassis or panels from 19 to 16 gauge (.044 to .062") using Amphenol retainer ring. Black Bakelite or steatite. Cadmium plated contacts for easy soldering; rotation feature for lining up contacts. Complete with retainer ring.

Can be assembled in any of the plug caps or receptacle shells.

For chassis mounting in 1-11/64"

Bakelite	Your Cost	Contacts	Steatite	Your Cost
86-CP4	\$.11	4 Prong	49-245-00	\$.40
86-CP5	.11	5 Prong	49-255-00	.40
86-CP6	.11	6 Prong	49-265-00	.40
86-CP7L	.11	7 Large		
86-CP7S	.11	7 Small		
86-CP8	.14	8 Octal	49-285-00	.40
86-CP9	.17	9 Octal Style		
86-CP11	.24	11 Octal Style		



MAGNAL STEATITE SOCKET

Eleven-contact socket of steatite. Has 1 1/8" pin circle to accept magnal 11-prong bases as found on many popular cathode ray and television tubes. Has octal style locating keyway. Complete with No. 2-14 ring. Mounts in 1 3/8" hole.

No.	Your Cost
49-SS11L—Magnal Steatite Socket	\$.97



SADDLE TYPE SOCKETS

Sharp nibs on mounting plate score chassis during riveting, breaking through any oxidation for a perfect ground. Designed for bottom mounting in 1 1/8" round hole. Two 3/32" diameter mounting holes on 1 1/2" centers.

No.	Contacts	Your Cost
54-8	8 Octal	\$.39
54-8L	8 Loktal	.44

MINIATURE RETAINER RING TYPE SOCKETS

Mount in 5/8" round or "D" shaped hole with No. 2-9 retainer rings except No. 78-5P which mounts in 1/2" hole with No. 2-10 ring.



BLACK BAKELITE

Number	Description	Your Cost
78-S3S	For 3 prong min. photo cells.	\$.14
78-S4S	4 Contact	.14
78-S5S	5 Contact	.17
78-S6S	6 Contact	.17
78-5P	5 Contact, Miniature	.17
78-7P	7 Contact, Miniature	.17

POLYSTYRENE—EXTREMELY LOW-LOSS

54-7P	7 Contact, Miniature	.34
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RETAINER RING "S" TYPE SOCKETS

Tube checkers and analyzers can easily be modernized with Amphenol sockets to test both 7 and 9 pin miniature tubes. With sockets, No. 78-A7P for 7 pin and No. 78-A9P for 9 pin. Mounts in standard socket hole 1 1/4". Has miniature socket in center.

78-A7P +	7 for Miniatures	\$.24
78-A9P +	9 for Miniatures	.36

Steatite

MINIATURE 7 AND 9 PIN SOCKETS



Above—Bottom Mounted
Right—Top Mounted with Tube Shield Base.



Used for television, FM, auto radios, portables, etc. 147 Series mount in 5/8" chassis hole; mounting centers 3/8"; screw holes 1/8". 59 Series mount in 3/4" chassis hole; mounting centers 1 1/8"; rivet holes .095".

BOTTOM MOUNTING—NO TUBE SHIELD BASE

Number	Contacts	Dielectric	Your Cost
147-500	7	Black Bakelite	\$.20
59-409	9	Black Bakelite	.31

TOP MOUNTING — WITH TUBE SHIELD BASE

147-905	7	Black Bakelite	\$.32
59-406	9	Black Bakelite	.45

TUBE SHIELD AND SPRING ASSEMBLIES



No.	Height	Description	Your Cost
5-402	1 3/4"	For 7 Pin Miniature Sockets	\$.12
5-408	1 1/2"	For 9 Pin Miniature Sockets	.20



Magic eye escutcheons—No. 10-1 hood type, large size for mounting over panel or cabinet hole. No. 10-2 Octal base full vision type. Brass with antique bronze finish.

No.	Your Cost
10-1—For 6-Prong Single Eye Tube	\$.12
10-2—For 8-Prong Double Eye Tube	.29

For the easy adapting or replacing of a six-prong magic eye tube in any radio having automatic volume control. Also for FM receivers, test instruments, etc., and as volume level and modulation indicators. Includes one-meg. target-plate resistor wired into socket and five wire color coded cable 22" long.

No. MEA6.—Complete Magic Eye Assembly. Your Cost.....\$1.21

No. 58-MEA8.—Complete Octal Magic Eye Assembly. For use with 6AL76T, tubes or similar. Octal type for small size tubes 58-MEA8 Complete. Your Cost.....1.21



RADIO HEADQUARTERS FOR DEALERS AND SERVICEMEN

AMPHENOL

RADIO COMPONENTS

Miniature sockets, cable connectors
and cable accessories

ACCESSORIES FOR CABLE CONNECTORS



Cable Set C-CAB

CABLE TYPE—Cadmium-plated steel covers which can be slipped over "PF", "PM" and 110-250 volt Connectors. Locks connectors firmly together. Especially suited for public address work. Set consists of one male and one female threaded shell.

C-CAB—Per Set

CHASSIS SET—Similar to the cable type in design except that one section is a threaded shell which fits under "S" type socket or retainer ring type 60 and 61 series. The other shell slips over the cable connector.

C-CHA—Per Set

CABLE CLAMP—Designed primarily for cable strain relief. Used with PF and PM connectors. Simply remove rubber grommet for connector and slip this grip into place. Also used on panels and chassis, to anchor cables firmly in place. Slips easily into any shape hole from $\frac{1}{8}$ " to $\frac{3}{8}$ ". No screws or rivets required.

CC-4 Cable Clamp

Chassis Set C-CHA

Cable Clamp

Your Cost \$0.24

Your Cost \$0.24

Your Cost \$0.10

RECTANGULAR PLUGS AND SOCKETS



For compact apparatus. Plugs are often used as a supported type self-sustaining coil form.

PLUGS

Num-ber	Style	Prongs or Contacts	Your Cost
70-14	A	2	\$0.16
70-27	B	2	.10
70-25	B	3	.12
70-26	B	4	.15

SOCKETS

77-25	C	3	.21
77-26	C	4	.24

Adapters

A simple way to make adapter units which may be used for modernizing tube checkers and analyzers, adapting new tubes to old circuits and for connections to output meter, phonograph pickup, etc.

SOCKET TOPS ONLY

Number	Contacts	Your Cost
44-4	4	\$0.19
44-5	5	.19
44-6	6	.19
44-7S	7 Small	.19
44-8	8 Octal	.19
44-L	Loktal	.19
For testing new 9 pin miniature tubes.		
44-9	9 Noval	\$0.36

BASES ONLY

With side stud accommodating a metal tube grid cap clip. Both tops (left) and bases are drilled for self-tapping screws which are supplied with bases.

Number	Prongs	Your Cost
50-4G	4	\$0.29
50-5G	5	.29
50-6G	6	.29
50-8SG	8 Octal	.29

Shell Only

Of metal tubing for snap-in connection on either end of Amphénol "S" type sockets or "C P" plugs. Combinations possible from 4 to 11 prongs or contacts.

No. 3-14D With side hole, rubber grommet. Your Cost \$0.20

Loktal Adapter Bases

Similar to small bases above but with metal band and lock-in stud like loktal tubes.

44-13 Loktal base. No side stud. Your Cost \$0.53

Miniature Tube Adapters

Unwired. For testing miniature tubes.

44-17-8 For 7 Prong Miniature Tubes. Octal base. Your Cost \$0.49

SHIELDED CABLE CONNECTORS, 110-250 VOLT



For cables up to $\frac{1}{2}$ " diameter

Fully shielded cable terminals with black Bakelite connector units encased in a tight cap that fits securely and is easily removed.

With Cable Description Your Cost

60-PF11	3 Pole Receptacle	\$0.48
60-M11	3 Pole Polarized Plug	.48
61-PF11	2 Pole Universal Receptacle	.39
61-M11	2 Pole Standard Plug	.39
61-MP11	2 Pole Polarized Plug	.39

SHIELDED CABLE CONNECTORS



PF4

PM4

Made of regular AMPHENOL sockets, snugly covered by a steel cap that fits tightly but may be pried with an ordinary screw driver. Cover is $1\frac{1}{2}$ " in height, black japanned.

Female Male Your Cost

78-PF4	85-PM4	4-Contact	\$0.25
78-PF5	85-PM5	5-Contact	.25
78-PF6	86-PM6	6-Contact	.25
78-PF7S	86-PM7S	7-Small	.25
78-PF7L	86-PM7L	7-Large	.25
78-PF8	86-PM8	8-Contact	.28
78-PF9	86-PM9	9-Contact	.32
78-PF11	86-PM11	11-Contact	.38
77-PF20	86-PM20	20-Contact	.72

MINIATURE SHIELDED PLUGS



MPF3S

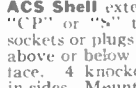
MPM3S

Short Shell is $\frac{1}{2}$ " long. For locations where small plug is desired.

SHORT STRAIGHT SHELL

Female	Male	Con-tacts	Your Cost
91-MPF3S	91-MPM3S	3	\$0.29
91-MPF4S	91-MPM4S	4	.32
91-MPF5S	91-MPM5S	5	.36
91-MPF6S	91-MPM6S	6	.36

RECEPTACLE SHELLS



ACS Shell extends "CP" or "S" type sockets or plugs $\frac{1}{2}$ " above or below surface. 4 knockouts in sides. Mounts in $1\frac{3}{4}$ " hole.

Number	Description	Your Cost
23-15	For small "S" Sockets	\$0.10
23-1L	For large "S" Sockets	.10
23-1	Top of shell is blank	.10

61-61 Shell. Nickel plated steel shell lowers bottom of "CP" and "S" type plugs and sockets and 60 and 61 connectors $1\frac{1}{8}$ " below surface. Mounts in $1\frac{1}{16}$ " hole.

No. 61-61 Your Cost \$0.15



MINIATURE PLUGS



CABLE TYPE—Extremely compact plugs, used extensively for speaker connections in compact midgets. Also ideal for all plug-in connections where space is limited.

Cable	Prongs	Your Cost
71-3S	3	\$0.12
71-4S	4	.12
71-5S	5	.17
71-6S	6	.17

SINGLE PRONG PLUGS



Bakelite Plugs, black or red, for use with Tip Jacks below.

Number	Description	Your Cost
71-1S	For $\frac{3}{32}$ " Socket	\$0.05
71-1M	For $\frac{1}{8}$ " Socket	.05
71-1L	For $\frac{5}{32}$ " Socket	.05



Number	Description	Your Cost
78-1S	For $\frac{3}{32}$ " Plug	\$0.08
78-1L	For $\frac{5}{32}$ " Plug	.08
78-1M	For $\frac{1}{8}$ " Plug	.08
78-1P	For .080 Phone Tip	.08
78-1P1	High Voltage for .080 Phone Tip. Mounts in $\frac{1}{2}$ " hole	.10

UHF POLYSTYRENE TIP JACK



Body may be used as feed-thru. Mounts in $\frac{5}{16}$ " hole with retainer ring (included).

No. 54-1H For .080 Phone Tip \$0.24

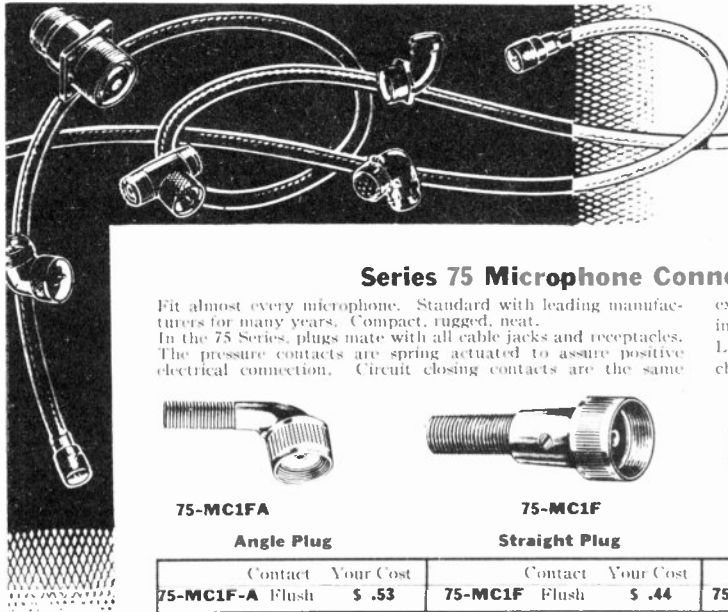
110-250 VOLT RECEPTACLES AND PLUGS WITH MOUNTING PLATE



Above receptacle and plug set in a nickel plated steel mounting plate with slotted holes to fit any hole spacing from $1\frac{1}{2}$ " to $1\frac{3}{4}$ ". Extensively used for mounting on metal walls, chassis, etc.

No.	Description	Your Cost
60-F1	2 Pole, Receptacle	\$0.28
60-M1	2 Pole, Standard Plug	.37
60-F1	3 Pole, Polarized	.29
61-MP1	2 Pole, Polarized	.28
60-M1	3 Pole, Polarized	.37

SEE AMATEUR PRICES FOR INDUSTRIAL SOCKETS



AMPHENOL

MICROPHONE CONNECTORS

Single or multiple microphone or audio channel connectors

Series 75 Microphone Connectors—Single Contact

Fit almost every microphone. Standard with leading manufacturers for many years. Compact, rugged, neat. In the 75 Series, plugs mate with all cable jacks and receptacles. The pressure contacts are spring actuated to assure positive electrical connection. Circuit closing contacts are the same

except that they close the circuit when plug is disengaged, eliminating open circuit grid howls. Locknut Receptacles mount in .385" holes when grounding to chassis and 1/2" holes for ungrounded 2 circuit applications.



75-MC1FA

Angle Plug



75-MC1F

Straight Plug



75-MC1M

Cable Jacks



75-PC1M

Locknut Receptacles

Contact	Your Cost	Contact	Your Cost	Contact	Your Cost	Contact	Your Cost
75-MC1F-A Flush	\$.53	75-MC1F Flush	\$.44	75-MC1M Flush	\$.36	75-PC1M Flush	\$.27

Series 80 Microphone Connectors—Single and Double Contacts

Series 80 Cable Connectors are designed for shielded cables; for single and two conductor coaxial cables, microphone cables; for twisted pairs, concentric lines, photo cell leads, patch cords and similar uses.

Chassis Connectors are of the same precision construction as cable connectors assuring positive connections, free from noise, leaks or shorts. Male chassis units have coupling rings. The chassis receptacles have coupling threads. All mount in 3/8" chassis holes.

80-MC2M



Plugs

80-MC2F



Cable Jacks

80-PC2F



Locknut Receptacles

80-CR



Flanged Receptacles

80-MSP



Coupling Ring Chassis Unit

Contacts	Your Cost	Contacts	Your Cost	Contacts	Your Cost	Contacts	Your Cost	Contacts	Your Cost
80-M M	\$.57	80-F F	\$.57	80-C F	\$.36	80-CR F	\$.44	80-MSP M	\$.71
80-MC2M M	\$.71	80-MC2F F	\$.71	80-PC2F F	\$.40	80-PC2-CR F	\$.48	80-SP-MC2M M	\$.80

Series 91 Microphone Connectors—3 and 4 Contacts

Series 91 male chassis units have coupling rings. Chassis and panel receptacles have coupling threads. All mount in 1/2" chassis holes. Maximum chassis or panel thicknesses are as follows: chassis receptacle, 1/8"; panel receptacle, 3/8"; coupling ring chassis unit, 3/8".

Mating families of connectors are listed in horizontal lines.



91-MC3M



91-MC3F



91-PC3F



SP-PC3F



91-SP-PC3M

Plugs	Cable Jacks	Chassis Receptacles	Panel Receptacles	Coupling Ring Chassis Units
THREE CONTACTS				
91-MC3M M	91-MC3F F	91-PC3F F	91-SP-PC3F F	91-SP-PC3 M
Your Cost \$.88	Your Cost \$.44	Your Cost \$.88		
FOUR CONTACTS				
91-MC4M1 M	91-MC4F F	91-PC4F F	91-SP-PC4F F	91-SP-PC4 M
Your Cost \$.96	Your Cost \$0.48	Your Cost \$0.96		

HEAVY DUTY RADIO CONNECTORS

The plugs shown in bold face type mate with jacks and receptacles listed in bold type in the same horizontal line. For numbers in light faced type follow the same procedure. Plugs mate with jacks and receptacles in the same horizontal line. Bold type also designates the most popular units.



Contacts	Plug	Jack	Receptacle	Your Cost
4	79-04M Male	79-04F Female	79-04M Male	\$1.21
5	79-05M Male	79-05F Female	79-05M Male	1.21
6	79-06M Male	79-06F Female	79-06M Male	1.21
8	79-08M Male	79-08F Female	79-08M Male	1.21
12	79-012M Male	79-012F Female	79-012M Male	1.93

LOW-LOSS COAXIAL CABLE CONNECTORS



For cables up to 1/4" OD May be teamed out for cable up to 1/4" OD Shell machined from solid brass, chrome plated. Connector elements molded of low-loss polystyrene. Locknut type chassis unit mounts in 1/2" hole.

Number	Description	Your Cost
93-M	Male Plug	\$1.44
93-F	Female Jack	1.44
93-C	Female Receptacle	1.21

CAP AND CHAIN



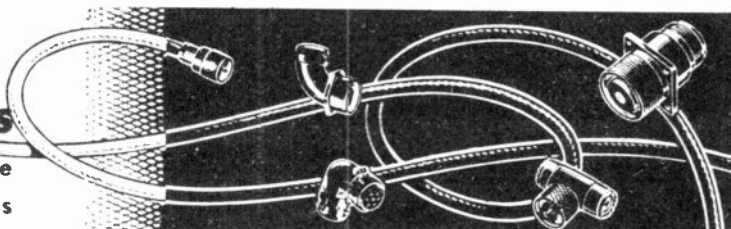
No.	For	Your Cost
CCC-1	PC1M, PC2F and 80C	\$.44
CCC-2	OF and OM Series	.44
CCC-3	MC3, PC3, MC4 and PC4	.49
CCC-8	OF and OM Series	.49

COMPLETE AMPHENOL CATALOGUE SENT ON REQUEST

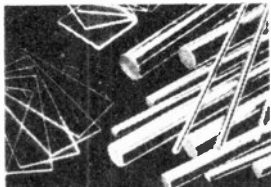
AMPHENOL

COIL FORMS — STANDOFFS

Coil forms and standoffs for the
U.H.F. field applications



SYNTHETIC RODS AND SHEETS



AMPHENOL "912-A" SHEET STOCK

Supplied in sizes per number listing below.

Number	Size	Your Cost per foot
19-0628	4"x8"x $\frac{1}{16}$ "	\$.23
19-0938	4"x8"x $\frac{1}{8}$ "	.28
19-1258	4"x8"x $\frac{3}{8}$ "	.32
19-1878	4"x8"x $\frac{1}{2}$ "	.40

"912-A" POLYSTYRENE RODS

as shown below. Length 12".

Number	Diameter	Your Cost
19R125	$\frac{1}{8}$ "	\$.04
19R250	$\frac{1}{4}$ "	.11
19R375	$\frac{3}{8}$ "	.24
19R500	$\frac{1}{2}$ "	.42

"912-A" POLYSTYRENE TUBES

supplied in 12" lengths in various diameters as shown. Wall thickness is $\frac{1}{16}$ ".

Number	Overall Diameter	Your Cost
19T3-062	$\frac{3}{8}$ "	\$.13
19T4-062	$\frac{1}{2}$ "	.15
19T5-062	$\frac{3}{4}$ "	.19
19T6-062	$\frac{1}{2}$ "	.26

SCREW EYE STAND-OFF INSULATORS



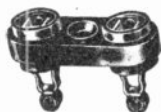
66-201

66-202

The low-loss polyethylene insert in Amphemol Screw Eye Insulator No. 66-202 fits the 3 types of Receiving Twin-Lead. No. 66-201 is designed to be used with coaxial cable and other types of leads with diameters not exceeding $\frac{1}{2}$ ". The No. 14 wood screw is 3" long.

Number	Description	Your Cost
66-201	For Coaxial Cable.....	\$.12
66-202	For Twin Lead.....	.12
66-208	7 $\frac{1}{2}$ ".....	.14
66-209	7 $\frac{1}{2}$ ".....	.14

CRYSTAL HOLDER SOCKET



Molded of mica-filled Bakelite... for crystal holders having 2 prongs on $\frac{3}{4}$ " centers. Easily mounted. May be used as dual tip jacks on test panels.

Number	Description	Your Cost
33-2T	For $\frac{1}{8}$ " Prongs.....	\$.14
33-3T	For $\frac{3}{8}$ " Prongs.....	.14

POLYSTYRENE CRYSTAL HOLDER SOCKET

For crystal holders with $\frac{3}{4}$ " centers as above. Contacts are special phosphor bronze, silver plated.

Number	Description	Your Cost
No. 54-2	For $\frac{1}{8}$ " Prongs.....	\$.29

UNIVERSAL GRID CAP



A grid cap of improved design for universal use with tube grid caps from $\frac{1}{4}$ to $\frac{3}{8}$ " diameter including standard glass and metal tubes. Spring brass contacts in red colored phenolic body.

Number	Description	Your Cost
63-1	Unwired Grid Cap.....	\$.15

POLYSTYRENE COIL FORMS



PLUG-IN COIL FORMS
Amphenol "912-A" polystyrene superior coil forms. Prong spacing fits standard tube sockets. Diameter of coil $1\frac{1}{4}$ "; length of body $2\frac{1}{4}$ ". Impregnate wound coils with Liquid "912".

No.	Description	Your Cost
24-4P	4-prong.....	\$.49
24-5P	5-prong.....	.53
24-6P	6-prong.....	.59

MINIATURE PLUG-IN TYPES

Small plug-in coil forms of Amphemol "912-A" polystyrene. Only $\frac{1}{4}$ " in diameter. For transmitters, low power transmitters and receivers for U.H.F. For use with 54 5H1 and 54 6H1 miniature sockets listed on socket page.

No.	Description	Your Cost
24-6H	6-prong.....	\$.39

MINIATURE COIL FORM

Of Amphemol "912-A" polystyrene. Raised hole in center of base for self tapping screw. $\frac{3}{4}$ " O.D., $1\frac{1}{8}$ " long.

No.	Description	Your Cost
24	Coil Form.....	\$.15

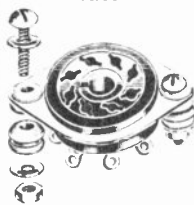
POLYSTYRENE LINE SPREADERS



Used for separating feeder lines and for construction of folded dipole antennas from wire. Set screws keep the spreaders firmly in place and the transmission line wires evenly spaced. Wire holes .085" D. Standard package 25.

Number	Description	Your Cost
66-205	Length 2".....	\$.12
66-206	Length 4".....	.16
66-207	Length 6".....	.20

ANTI-MICROPHONIC KIT



Socket cushions and all the necessary parts for making floating connections using Amphemol MIP sockets. Complete instructions enclosed. Used to overcome tube microphonics whenever cushioned sockets are necessary, especially in photo cell work, ultra sensitive circuits, and for some battery tubes.

Number	Description	Your Cost
No. 11-3K Kit, less Socket.....		\$.20

TAP CHANGE SWITCH



An 8 position single pole continuous switch with white markings clearly visible in window cap. Side set screw locks switch arm in position preventing accidental tap changes.

Number	Description	Your Cost
36-1	With numerals 1 to 8.....	\$.72
36-2	With impedance markings 0-2-4-8-16-250-500.....	.72

TRANSMISSION LINE



High efficiency low-loss. Tough, inexpensive, repels water; unaffected by acids, alkalis and oils. Remains flexible in temperatures as low as 70° F., and does not become brittle after continuous aging in sunlight.

RECEIVING TWIN-LEAD

No.	Ohms	Capacity per foot	Your Cost per foot	Your Cost per 100 ft
14-080	75 19 mm.		\$.03	\$2.68
14-079	150 10 mm.		.035	3.23
14-056	300 .5.8 mm.		.04	3.88

TRANSMITTING TWIN-LEAD

14-023 75 ohm, for amateur transmitting systems. Rated at 1000 watts for 30 m. Per foot, Your Cost..... \$.10

TWIN LEAD TRANSMISSION LINE IN HANDY CARTON

75 foot coil of 300 ohm Twin Lead packaged in handy carton.

No. 184-801.

Your Cost..... \$3.04



POLYSTYRENE STAND-OFF INSULATORS

Molded of low-loss polystyrene for perfect insulation of Twin-Lead transmission lines. Offset mounting hole permits easy mounting to all surfaces. For 300 ohm Twin-Lead.

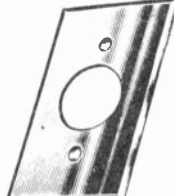
No. 66-909 Your Cost \$.12



POLISHED CHROME WALL PLATE

For use with chassis connectors, .040" brass, beveled edge, standard mounting holes. This wall plate may also be used with Nos. 92M2 and 92F2 listed below.

No.	Your Cost
84-2CH.....	\$.72



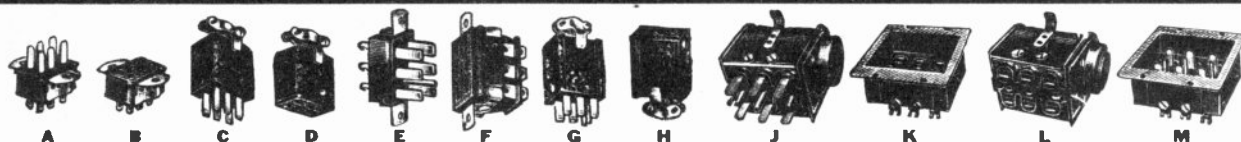
FLUSH RECEPTACLE

Supplied with either male or female element. Fits standard switch boxes. Service end protrudes through Wall Plate $\frac{1}{8}$ " to accommodate coupling ring on cable connector, or Chain and Cap to close outlet when not in use.

No.	Your Cost
No. 92-M2 - Male.....	\$2.52
No. 92-F2 - Female.....	2.52



ASK FOR WHAT YOU DO NOT SEE IN OUR CATALOGUE



"300" SERIES LIGHT DUTY

Designed for use in circuits not exceeding 45 volts at 5 amperes, although circuit characteristics may permit higher ratings. All Plugs and Sockets are polarized so that Plugs of one size fit into Sockets of another size.

Type-A Plug with Angle Brackets			Type-B Socket with Angle Brackets		
No.	Your Cost	Con- tacts	No.	Your Cost	
P-302-AB	\$0.21	(2)	S-302-AB	\$0.23	
P-303-AB	.25	(3)	S-303-AB	.27	
P-304-AB	.29	(4)	S-304-AB	.31	
P-306-AB	.35	(6)	S-306-AB	.38	
P-308-AB	.41	(8)	S-308-AB	.47	
P-310-AB	.47	(10)	S-310-AB	.56	
P-312-AB	.53	(12)	S-312-AB	.65	

Also available up to 33 contacts

Type-C Cable Clamp in Plug			Type-D Cable Clamp in Cap Socket		
No.	Your Cost	Con- tacts	No.	Your Cost	
P-302-CCT	\$0.48	(2)	S-302-CCT	\$0.49	
P-303-CCT	.52	(3)	S-303-CCT	.53	
P-304-CCT	.56	(4)	S-304-CCT	.57	
P-306-CCT	.62	(6)	S-306-CCT	.65	
P-308-CCT	.68	(8)	S-308-CCT	.75	
P-310-CCT	.76	(10)	S-310-CCT	.85	
P-312-CCT	.84	(12)	S-312-CCT	.95	

Also available up to 33 contacts

"400" SERIES Heavy Duty

Designed for use in circuits not exceeding 110 volts at 10 Amperes, although circuit characteristics may permit higher ratings.

Type-E Plug with Angle Brackets			Type-F Socket with Angle Bracket		
No.	Your Cost	Con- tacts	No.	Your Cost	
P-402-AB	\$0.52	(2)	S-402-AB	\$0.58	
P-404-AB	.63	(4)	S-404-AB	.75	
P-406-AB	.75	(6)	S-406-AB	.92	
P-408-AB	.86	(8)	S-408-AB	1.09	
P-410-AB	.98	(10)	S-410-AB	1.27	
P-412-AB	1.09	(12)	S-412-AB	1.44	

Type-G Type-H Cable Clamp in Cap Plug Socket

No.	Your Cost	Con- tacts	No.	Your Cost
P-402-CCT	\$0.81	(2)	S-402-CCT	\$0.87
P-404-CCT	.98	(4)	S-404-CCT	1.10
P-406-CCT	1.15	(6)	S-406-CCT	1.33
P-408-CCT	1.32	(8)	S-408-CCT	1.56
P-410-CCT	1.49	(10)	S-410-CCT	1.79
P-412-CCT	1.66	(12)	S-412-CCT	2.02

INDUSTRIAL HEAVY DUTY "500" Series Plugs and Sockets

Designed for 5,000 volts and 25 amperes per contact. Circuit characteristics, however, may alter this rating one way or the other.

Long leakage path from terminal to terminal, and terminal to ground. Contacts are brass and phosphor bronze, cadmium plated. Plug and socket blocks are interchangeable in caps and brackets. All sizes are polarized in a manner to prevent a smaller plug being inserted in a larger socket.

Style-J Style-M With Cap Plug With deep Bracket

No.	Your Cost	Con- tacts	No.	Your Cost
P-502-CE	\$2.50	(2)	P-502-DB	\$2.20
P-504-CE	3.60	(4)	P-504-DB	3.15
P-506-CE	4.70	(6)	P-506-DB	4.10
P-508-CE	5.80	(8)	P-508-DB	5.05
P-510-CE	6.90	(10)	P-510-DB	6.00
P-512-CE	8.00	(12)	P-512-DB	6.95

Style-L Style-K With Cap Socket With deep Bracket

No.	Your Cost	Con- tacts	No.	Your Cost
S-502-CE	\$2.50	(2)	S-502-DB	\$2.20
S-504-CE	3.60	(4)	S-504-DB	3.15
S-506-CE	4.70	(6)	S-506-DB	4.10
S-508-CE	5.80	(8)	S-508-DB	5.05
S-510-CE	6.90	(10)	S-510-DB	6.00
S-512-CE	8.00	(12)	S-512-DB	6.95

AMPHENOL INDUSTRIAL TYPE PARTS



We have in stock Amphenol Industrial type parts, for special applications in industrial and laboratory work.



Examples of these parts are special for GL-592 tube, a high triode for industry and amateurs. Socket for cartridge type phototube, 921, 922 or similar types.



Combination tube mount and stand off insulator used for FG-172 Thyatron. Duodecal and Diheptal tube sockets.



Your enquiries on these items are welcomed and any parts that are not in stock will be obtained. Write for special Amphenol catalogue.



WAFER MINIATURE (Socket)



Has 3 Brass contacts and center ground shield solder coated for fast, easy soldering.

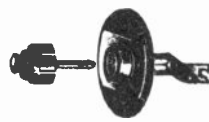
No.	Your Cost
2557 with ground Strap.....	\$0.19
538 No ground Strap.....	.16

WAFER SOCKETS

Your Cost
4-prong, plain.. \$0.07
5-prong, plain.. .08
6-prong, plain.. .08
7-prong, large.. .14
7-prong, small.. .09
8-prong, octal.. .14
8-prong, loktal.. .14



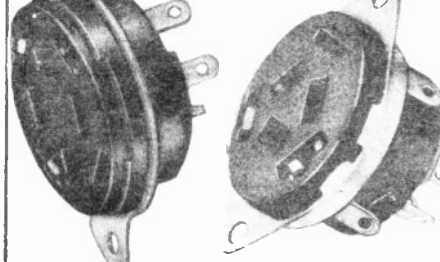
NEW PIN PLUG AND JACK



Used on ALL recording units, receivers and auto sets.

No.	Your Cost
No. 1336—Pin Plug.....	\$0.11
No. 8134—Socket and Shield.....	.16

CONDENSER PLUG IN SOCKETS



For use with Mallory and Magnavox 1" FP type condensers. Black bakelite—1 1/2" mounting centers.

No. 523—Your Cost.....	\$0.47
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For use with Mallory and Magnavox 1 3/8" FP type condensers. Black bakelite.

No. 897—Your Cost.....	\$0.60
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SUB MINIATURE (HEARING AID) SOCKET



Made with mica filled low loss bakelite and silver plated beryllium copper contacts.

No.	Prong	Your Cost
953	5	\$0.36
955	6	.36
957	7	.38

INQUIRIES ON PLUGS NOT CATALOGUED WELCOMED

Cannon Plugs and Receptacles, for Superior Performance

Cannon Electric Type "XL" Connector combines various features found in other Cannon types into a small fitting comparable only in sizes to the Type "X" for low level sound transmission circuits. Contacts are 15-amp. for No. 14 B&S stranded wire. Shell is zinc or steel, with various finishes available, bright nickel being standard. Satin-chrome finish available on steel shells. Min. flashover voltage, 1500 (250 working voltage). Among the leading features are the following:

- ★ Convenient latchlock device, to hold connector tight.
- ★ Lightweight.
- ★ Polarizing means.
- ★ Compression gland with relief spring or integral clamp, if desired.
- ★ Streamlined design.
- ★ Tapped metal for insert retaining screw.
- ★ Provision for special grounding contact.

ZINC SHELL TYPES

TYPE "XL-12" STRAIGHT CORD PLUG (Socket Insert)



Type XL-12 plug has alignment rib in addition to polarizing groove. Cable accommodation is $\frac{3}{32}$. Insert is removable for soldering or inspection. Overall dimensions: length, $1\frac{1}{2}$, with cable relief spring, $2\frac{3}{4}$; diameter $\frac{3}{4}$.

No.	Contacts	Capacity	Your Cost
XL-3-12	3	15-amp.	\$1.30

TYPE "XL-11" STRAIGHT CORD PLUG (Socket Insert)



Type XL-11 is equipped with latch lock device and has raised polarizing boss. No. 1 contact engages before Nos. 2 and 3, and may be used for grounding purposes, if desired. $\frac{3}{32}$ cable accommodation. Overall dimensions: length, $2\frac{3}{4}$, with relief spring, $2\frac{1}{2}$ approx.

No.	Contacts	Capacity	Your Cost
XL-3-11	3	15-amp.	\$1.35

WALL TYPE RECEPTACLES

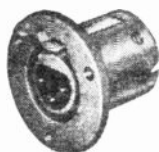
TYPE "XL-14" RECEPTACLE (Pin Insert)



This wall mounting receptacle has three mounting holes having .136 diameter. Overall dimensions: flange diameter, $1\frac{1}{4}$; width flange, $\frac{3}{8}$; length behind flange to solder pot extension, $1\frac{1}{4}$; barrel diameter, $\frac{3}{4}$. Material zinc, bright nickel finish.

No.	Contacts	Capacity	Your Cost
XL-3-14	3	15-amp.	\$1.10

TYPE "XL-13" RECEPTACLE (Socket Insert)



A wall mounting receptacle similar to XL-14 except that it has socket insert assembly and latch locking device. Overall Dimensions: flange diameter, $1\frac{1}{4}$; flange thickness $\frac{3}{8}$; rear of flange to solder pot extension $1\frac{1}{4}$; dia. barrel, $\frac{3}{4}$; three mounting holes drilled .136.

No.	Contacts	Capacity	Your Cost
XL-3-13	3	15-amp.	\$1.35

PANEL TYPE RECEPTACLES

TYPE "XL-14N" RECEPTACLE (Pin Insert)



Designed to be mounted in a panel and has lock nut, accommodating up to $\frac{3}{4}$ inch panel. Two fittings may be mounted on a single gang plate. Overall Dimensions: flange diameter, $1\frac{1}{4}$; barrel diameter, 1; width flange to barrel, $\frac{3}{8}$; with $\frac{1}{4}$ max. solder pot extension; flange thickness, $\frac{3}{8}$.

No.	Contacts	Capacity	Your Cost
XL-3-14N	3	15-amp.	\$1.25

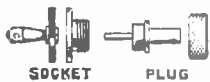
TYPE "XL-13N" RECEPTACLE (Socket Insert)



Similar to XL-14N except has socket insert assembly, with latchlock device, and polarizing boss on insert barrel. No. 1 contact engages before Nos. 2 and 3 and may be used for grounding circuit, if desired. Overall dimensions: flange and barrel and nut are identical to XL-14N, length from face of flange including solder pot extension, $1\frac{1}{4}$.

No.	Contacts	Capacity	Your Cost
XL-3-13N	3	15-amp.	\$1.35

SERIES 101 PLUGS



The No. 101 Series of plugs is furnished in five sizes. All metal parts brass. They fit all the 101 series sockets. Ideal for high frequency connectors.

No.	Your Cost	No.	Your Cost
P-101 $\frac{1}{4}$ "	\$0.52	P-101 $\frac{3}{8}$ "	\$0.63
P-101 $\frac{1}{2}$ "	.63	P-101 $\frac{1}{2}$ "	.69

SERIES S-101 SOCKETS

The No. 101 series sockets in three types. S-101 D has bakelite recessed in base, and S-101-D Mod. has sides of base milled.

No.	Your Cost	No.	Your Cost	No.	Your Cost
S-101	\$0.46	S-101-D	\$0.69	S-101-D Mod.	\$0.69

DE LUXE BROADCAST TYPES

Steel shell plugs with integral clamp

TYPE XL-3-11SC PLUG (Socket Insert)



The steel shell type is built for rugged service and has cable entry of $\frac{1}{4}$ " min., $\frac{5}{8}$ " max. $\frac{1}{32}$ " shorter overall shell than zinc type. Otherwise same construction mating with regular XL receptacle. Bright nickel finish standard.

No.	Cap.	Your Cost
XL-3-11SC	15-amp.	\$3.05

TYPE XL-3-12SC PLUG (Pin Insert)



Corresponds to XL-3-12 except that shell is steel with integral clamp. For $\frac{5}{8}$ " max. entry. Shell is $\frac{1}{32}$ " shorter in overall length than corresponding zinc shell.

No.	Cap.	Your Cost
XL-3-12SC	15-amp.	\$2.90

TYPE XL-3-50 ADAPTER RECEPTACLES Steel Shells



No.	Your Cost	No.	Your Cost	No.	Your Cost
XL-3-50	\$1.05	XL-3-50T	\$1.10	XL-3-50N	\$1.20

SINGLE GANG WALL RECEPTACLES

TYPE XL-3-35 (Socket Insert)

Face wall plate mates with an XL-3-13N receptacle.

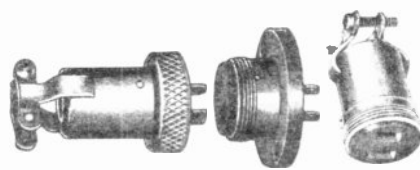
No. XL-3-35—Your Cost	\$2.40
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TYPE XL-3-36 (Pin Insert)

Face wall plate. Takes an XL-3-14N receptacle. Finest Bright Nickel.

No. XL-3-36—Your Cost	\$2.30
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HOWARD B. JONES MICROPHONE CONNECTORS



P-202-CCT S-202-B S-202-CCT-THR

Two contacts only. Metal parts are of Brass with burnished Cadmium Plate. Insulation is of Molded Bakelite. Formed Fibre linings in caps. Polarized. Knurled nut has $\frac{3}{4}$ "—27 thread.

Socket Mounting Holes. No. 30 drill on 1" centers.

No.	Description	Your Cost
P-202-CCT —	Plug	\$0.64
S-202-B —	Socket	.75
S-202-CCT-THR —	Socket	.86

EVERYTHING WE SELL IS GUARANTEED

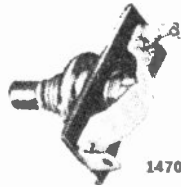
NEW IRC DS & CS STANDARD AND TAPPED CONTROLS



	List Price	Your Cost
CS STANDARD	\$1.35	\$0.81
CS TAPPED	2.00	1.20
DS MIDGET SINGLE	1.50	.90

Resistance OHMS	Tap	Stock No.	Taper
10M		DS 11-116	A
10M		DS 14-116	D
15M	3M	CS 18-117X	
25M		DS 14-120	D
30M	6M	CS 18-122X	
44M	7M-14M	CS 18-123XX	
50M		DS 11-123	A
250M	25M	CS 17-130X	
250M	60M 120M	CS 18-130XX	
350M	35M	CS 17-132X	
500M	25M	CS 17-133X	
500M	250M	CS 19-133X	
500M	100M-200M	CS 18-133XX	
1.0 meg		CS 14-137	
1.0 meg	50M 100M	CS 17-137XX	
1.0 meg	250M-500M	CS 18-137XX	
2.0 meg	5M	CS 15-139X	
2.0 meg	500M-1.0 meg	CS 13-139XX	

MOMENTARY PUSH SWITCHES



Open or closed circuit switches can be used for many light duty applications such as meter insertion, record rejection or selection, test equipment, etc. Rated 1 ampere at 110 v. AC, contacts are phosphor bronze silver plated on steel. Designed for panel mounting with insulated $\frac{3}{8}$ " bushing, $\frac{3}{8}$ " long. Push button protrudes $\frac{1}{2}$ " from end of bushing.

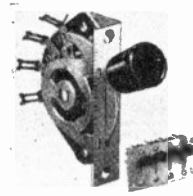
No. Your Cost

1470—Momentary opened \$0.35

1471—Momentary closed35

WRITE FOR COMPLETE CATALOGUE OF CENTRALAB PRODUCTS

CENTRALAB LOW CAPACITY LEVER ACTION SWITCHES



Used singly or in groups. Use the shorting type contact for circuit switching where contacting the new circuit before breaking the old circuit will avoid noise. Size $\frac{3}{8}$ " x $1\frac{1}{2}$ " x $1\frac{1}{2}$ ". Below are listed the various types, all furnished with black knob nuts and bolts for panel mounting.

Contacts	Description	Type of Index
Non-Shorting	Poles Positions	
1452	1454 2 3	Positive
1453	1455 2 3	Spring Return
1456	1457 4 2	Spring Return
1459	1458 4 2	Positive
1466	1467 2 3	Positive and Spring Return

Switches, All Types

Your Cost, Each \$0.85

MOUNTING PLATES

Finished in black crackle.

Plate Part No.	No. of Switches	Mounting Holes	Your Cost
P1755	1	Vertical	\$0.28
P1756	2	Vertical	.32
P1757	3	Vertical	.32
P1758	4	Vertical	.48
P1759	5	Vertical	.60

UNIVERSAL FLAT SWITCH

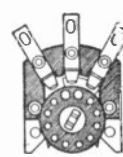


May be used as S.P.S.T., T.S.P.D.T., D.P.S.T., D.P.D.T., 3 P.S.T., 3 P.D.T., 4 P.S.T., 4 P.D.T.

Frequently used as a talk-listen switch and station intercommunicator. Surface is $\frac{3}{8}$ " knob included.

No.	Your Cost
1450	\$0.70
1451 (with spring return)	.85

TONE SWITCHES



Numerous variations in size and design to fit individual applications. Types now include off-on switches, station selectors in inter-com. systems, talk-listen switches and band change switches.

Available in four types, with brass bushing $\frac{3}{8}$ " in diam. x $\frac{3}{8}$ " in length. The metal shaft has full length .156" mill; $\frac{1}{4}$ " in diam. and $2\frac{1}{2}$ " in length. 6 volts.

Model No.	Description	Your Cost
1460	S.P.D.T. or S.P.S.T.	\$0.50
1461	S.P. 3-Position	.50
1462	D.P.D.T., S.P.S.T., or S.P.D.T.	.50
1463	1-Pole 2-Position, spring return	.50
1464	2-Pole 2-Position, spring return	.70
1465	1-Pole 4-Position with S.P.S.T. A.C. switch attached	.85
1473	2-Pole 3-Position	.70

INTRODUCING THE NEW MALLORY MIDGETROL $\frac{15}{16}$ " CONTROL

For volume and tone control in audio circuits. Small diameter, $\frac{15}{16}$ ", to service radio sets requiring small parts. Available in full line of resistances, tapers and taps. New flat shaft fits all knobs. New switches fit easily, stay on and work every time.

Part No.	Resistance	Taper	Tap At	Your Cost
U-12	5 M	1	...	
U-14	5 M	4	...	
U-18	10 M	1	...	
U-19	10 M	2	...	
U-20	10 M	4	...	
U-21	15 M	1	...	
U-22	15 M	2	...	
U-24	20 M	1	...	
U-28	25 M	2	...	
U-29	25 M	4	...	
U-33	50 M	1	...	
U-34	50 M	2	...	
U-35	50 M	4	...	
U-36	75 M	1	...	
U-39	100 M	1	...	
U-40	100 M	2	...	\$0.99
U-41	100 M	4	...	
U-42	150 M	1	...	
U-43	200 M	4	...	
U-44	250 M	1	...	
U-45	250 M	2	...	
U-46	250 M	4	...	
U-48	500 M	1	...	
U-50	500 M	4	...	
U-51	750 M	1	...	
U-53	1 Meg	1	...	
U-54	1 Meg	4	...	
U-55	2 Meg	1	...	
U-57	3 Meg	1	...	
U-65	5 Meg	1	...	
UT-420	250 M	...	50 M	
UT-425	350 M	...	70 M	
UT-427	500 M	...	100 M	
UT-431	500 M	...	225 M	
UT-443	1 Meg	...	450 M	1.48
UT-450	2 Meg	...	125 M	
UT-448	2 Meg	...	250 M	
UT-454	2 Meg	...	400 M	
UT-451	2 Meg	...	900 M	

ATTACHABLE SWITCHES

Catalog Number	Description	Your Cost
US-26	Single pole—single throw	\$0.48
US-26T	Single pole—single throw Has dummy terminal	.60
US-27	Double pole—single throw	.60
US-28	Single pole—double throw	.60
US-23	Four pole—single throw, shorting	.60



- Shafts easily cut to desired length.
- U-clip or steel clip enables use with push-on, set screw and knurled knobs.
- Extension shaft and self tapping screws available when required.

EXTENSION SHAFTS

Extends shaft length on each Mallory Midgetrol an additional 4" with each extension. Two self-tapping screws furnished with each extension.

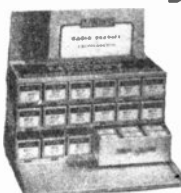
UE-50—Your Cost \$0.20

IDLER PULLEYS

Fits over the Mallory Midgetrol flat shaft to permit its use as an idler for the dial cord where necessary.

UP-10—Your Cost \$0.16

THE MALLORY MIDGETROL DEAL

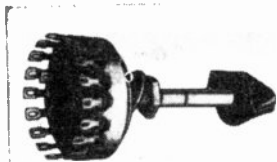


FREE! This beautiful cabinet! With the purchase of fast moving 15 controls and 9 switches, you get FREE the cabinet extra clips and extra shafts.

CONTENTS

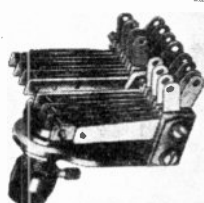
CONTROLS:	SWITCHES:
4. U-48	9. US-26
3. U-53	
2. U-50	
2. U-44	
1. U-18	4. Extension Shafts
1. U-55	5. Extra U-clips
1. U-39	5. Extra Spring Clips
1. U-41	2. Idler Pulleys

SHORTING AND NON-SHORTING SINGLE GANG TAP AND CIRCUIT SELECTOR SWITCHES



Sh'tg Type Cat. No.	Non-Sh'tg Type Cat. No.	Ad-just-able Stop	No. of Cir-cuits	No. of Con-tacts per Circuit	Your Cost
3115J	3215J	No	One	5	\$.75
3112J	3212J	No	One	12	.75
3122J	3222J	No	Two	2	.75
3123J	3223J	No	Two	3	.75
3126J	3226J	No	Two	6	.75
3134J	3234J	No	Two	4	.81
3142J	3242J	No	Four	2	.81
3143J	3243J	No	Four	3	.81
31117J	32117J	Yes	One	17	1.20
3129J	3229J	Yes	Two	9	1.20
3136J	3236J	Yes	Three	6	1.29
3163J	3263J	Yes	Six	3	1.29

*Replaces No. 2762 by using adjustable stop.



JUNIOR JACK SWITCHES

For Mounting in a single hole $\frac{7}{8}$ " diameter, in panels up to $\frac{1}{4}$ " thick.

Two-Positing Switches

No.		Your Cost
720	Single-Pole, Single-Throw.....	\$.87
730	Single-Pole, Double-Throw.....	1.08
740	Double-Pole, Single-Throw.....	1.20
745	Five Springs, two make and one break.....	1.41
760	Double-Pole, Double-Throw.....	1.56
733	Three-Pole, Single-Throw.....	1.56
744	Four-Pole, Single-Throw.....	2.04

Three-Position Switches

732	Single-Pole, Double-Throw Centre off Position.....	1.08
762	Double-Pole, Double-Throw Center off Position.....	1.53
763	Three-Pole, Double-Throw Center off Position.....	2.01
764	Four-Pole, Double-Throw Center off Position.....	2.46

13124L

24 POINT NON-SHORTING TAP SWITCH



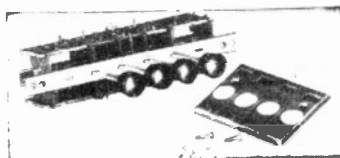
Your Cost..... \$2.31



CANADIAN MALLORY REPLACEMENT GUIDE

A book filled with technical information on all receivers. Your Cost \$1.50

PUSH BUTTON SWITCHES (Multiple)

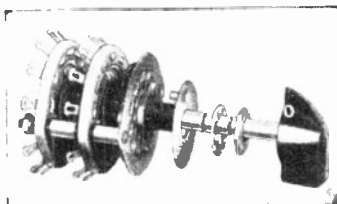


Type 2100—New series for use in test instruments, meter switching circuit, etc. Circuit transfer, non-shortening type; each button provides d.p.d.t. action. Low loss contact construction. With escutcheon, brown bakelite knobs, blank inserts and transparent strip for windows.

Catalog Number	Number of Buttons	Type	Your Cost
2164	4	Circuit Closing	\$3.48
2166	6	Circuit Closing	4.32
2168	8	Circuit Closing	5.22
2184	4	Circuit Transfer	3.48
2186	6	Circuit Transfer	4.32
2188	8	Circuit Transfer	5.22
2194	4	†Circuit Transfer	3.48
2196	6	†Circuit Transfer	4.32
2198	8	†Circuit Transfer	5.22

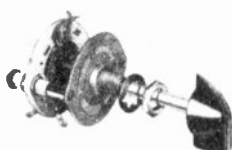
†Non-shortening.

CERAMIC SECTION SWITCHES



	No. of Circuits per Section	No. of Contacts per Circuit	
Single-Gang Switches			
171C	1	6	
172C	1	11	\$1.11
173C	2	5	
174C	3	3	
Two-Gang Switches			
175C	1	6	
176C	1	11	1.77
177C	2	5	
178C	3	3	
Three-Gang Switches			
179C	1	6	
180C	1	11	2.58
181C	2	5	

"HAM-SWITCHES"

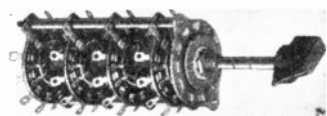


151L—Two Section Five position. Similar to the 1200 series. High insulation low loss rating at 1000 volts RMS. AC or 1500 volts DC. Your Cost..... \$1.83

152L—Two section, Two circuit, six position. Similar to 170 series. Used where all unused terminals are to be connected together and automatically shorted out.

Your Cost..... \$2.16

GANG SWITCHES FOR TEST EQUIPMENT AND GENERAL RADIO LABORATORY WORK



Single-Gang Switches

Sh'tg Type	Non-Sh'tg Type	Poles	Position	Your Cost
1216L	1316L	1	2-6	\$.87
1211L	1311L	1	2-11	1.02
1215L	1315L	2	2-5	1.11
1213L	1313L	3	2-3	1.20
1212L	1312L	4	2-2	1.26

Two-Gang Switches

1226L	1326L	2	2-6	1.44
1221L	1321L	2	2-11	1.53
1225L	1325L	4	2-5	1.71
1223L	1323L	6	2-3	1.86
1222L	1322L	8	2-2	1.95

Three-Gang Switches

1236L	1336L	3	2-6	1.92
1231L	1331L	3	2-11	2.04
1235L	1335L	6	2-5	2.19

Four-Gang Switches

1246L	1346L	4	2-6	2.37
1241L	1341L	4	2-11	2.61
1245L	1345L	8	2-5	3.03

Five-Gang Switches

1251L	1351L	5	2-11	3.24
1256L	1356L	10	2-6	3.99

Six-Gang Switches

1261L	1361L	6	2-11	3.84
1266L	1366L	12	2-6	4.89

2000 SINGLE PUSH-BUTTON SWITCHES

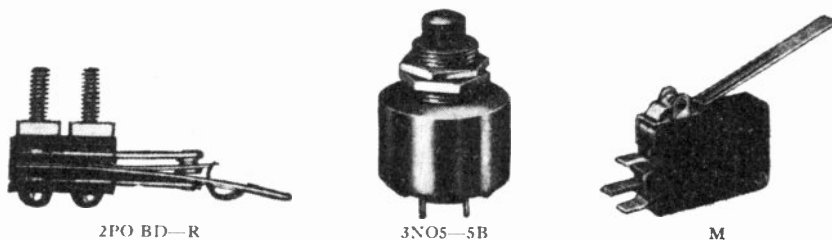


Ideal for a wide variety of applications requiring momentary or permanent contact.

Cat. No.	Circuit Arrangement	Your Cost
2001	S. P. Make contact—Non-locking type	\$1.05
2001-L	S. P. Make contact—Locking Type	1.05
2002	S. P. Break contact—Non-locking type	1.05
2002-L	S. P. Break contact—Locking type	1.05
2003	S. P. Double-Throw—Non-locking type	1.11
2003-L	S. P. Double-Throw—Locking type	1.11
2004	2-Pole—Make two contacts—Non-locking type	1.29
2004-L	2-Pole—Make two contacts—Locking type	1.29
2005	2-Pole—Break two contacts—Non-locking type	1.29
2005-L	2-Pole—Break two contacts—Locking type	1.29
2006	2-Pole—Double-Throw—Non-locking type	1.56
2006-L	2-Pole—Double-Throw—Locking type	1.56
2007	2-Pole—Make two—Break one—Non-locking type	1.41
2007-L	2-Pole—Make two—Break one—Locking type	1.41
2008	Double-Throw—Make before break—Non-locking type	1.75
2008-L	2-Pole—Double-Throw—Make before break—Locking type	1.75

• QUALITY Radio SWITCHES •

ACRO SNAP SWITCHES



● LIGHT PRESSURE ● SNAP ACTION ● POSITIVE PRECISION
HIGHEST QUALITY INDUSTRIAL SWITCHES

MODEL RD-1-A STANDARD PIN ACTUATOR

Gap .010; Contacts S.P.D.T.; Pretrav. .015 to .030; Movediff. .003; Oper. Pres. 8 to 10 oz.; Release 4 to 6 oz.; Overtrav. move. .015.
Your Cost..... **\$1.37**

MODEL RD-1-B OVERTRAVEL PLUNGER
Gap .010; Contacts S.P.D.T.; Pretrav. .015 to .030 Movediff. .003; Oper. Pres. 8 to 10 oz.; Release 2 to 3 oz.; Overtrav. move. $\frac{1}{4}$ "; Pres. 2 to 4 lbs.
Your Cost..... **\$1.62**

MODEL RD-5-L RIBBED LEAF ACTUATOR

Gap .010; Contacts S.P.D.T.; Pretrav. move. $\frac{1}{8}$ "; Movediff. .015; Oper. Pres. 4 to 5 oz.; Release 2 to 3 oz.; Overtrav. move. $\frac{3}{8}$ ".
Your Cost..... **\$1.48**

OPEN BLADE ACRO SNAP SWITCH

Gap .060; Contacts S.P.D.T.; Actuation: Applied at end of flat blade. Upon release of pressure switch will return to original position. Pressure to operate 10 to 14 oz.; Rated at 15 amperes, 115 volts AC.

Model 2POBD-R—Return type.

Model 2POBD-S—Set type.

Your Cost—Either type..... **\$2.58**

MODEL RD-2-M RIBBED ROLLER LEAF

Gap .010; Contacts S.P.D.T.; Pretrav. move. $\frac{1}{8}$ " Movediff. .015; Oper. Pres. 4 to 5 oz.; Release 2 to 3 oz.; Overtrav. move. $\frac{1}{2}$ ".
Your Cost..... **\$1.78**

MODEL 2MD3-1-B MINIATURE ACRO SNAP

Gap .030; Contacts S.P.D.T.; Operating Force 6 to 9; Move. Diff. .014; Pretrav. $\frac{1}{2}$ " max. Overtrav. .025 min. Size $1\frac{3}{4}$ " x $1\frac{1}{4}$ " x $\frac{1}{4}$ ".
Your Cost..... **\$1.63**

MODEL RD-1-P MOUNT PANEL ACRO SWITCH

Gap .010; Contacts S.P.D.T.; Pretrav. .015 to .030; Oper. press. 8 to 10 oz.; Overtrav. press. $1\frac{1}{2}$ lbs. Overtrav. move. $\frac{3}{8}$ ".
Your Cost..... **\$2.64**

NUT TYPE ACRO SNAP SWITCH

Small enclosed compact push button of large capacity. Rating is 15 amperes at 115 volts AC. Supplied in normally open or normally closed. Size: $\frac{1}{2}$ " dia., $1\frac{1}{2}$ " overall.

Model 3NO5-5P—normally open

Model 3NC5-5P—normally closed.

Your Cost—Either type..... **\$1.80**

FOR FURTHER DETAILS WRITE STATING REQUIREMENTS



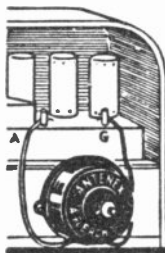
RECORD-PLAYER SWITCH

For quickly connecting Record Players, F.M. attachments, Television attachments, Microphones and similar devices into the audio amplifier of existing radio receivers.

No. 1740B—Your Cost..... **\$1.80**

Better RADIO RECEPTION

with **Antenex**
INDOOR AERIAL

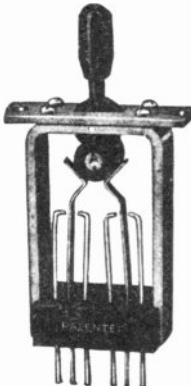


Eliminates outside wires. Reduces static, noise and interference. Easily installed by anyone. No moving parts. No adjustment necessary. Dustproof bakelite case. No larger than a door knob.

Sells on Sight

A SURE-FIRE item for every live merchandiser. Satisfaction guaranteed.

List..... **\$1.75**
Your Cost, Each..... **1.13**
Per Dozen..... **1.00**



FEDERAL ANTI-CAPACITY SWITCHES

Equipped with a highly polished nickel-plated face plate. Springs are of phosphor bronze, silver-plated for good conductivity.

No. 1424 D.P.D.T.
12-spring..... **\$3.50**

No. 1425 D.P.D.T.
6-spring..... **\$3.50**

No. 1427 D.P.S.T.
4-spring..... **\$3.50**



ROTARY SWITCHES

Your Cost

No. 499—S.P.S.T..... **\$0.53**

No. 500—S.P.D.T..... **.72**

No. 501—D.P.S.T..... **1.22**

No. 502—D.P.D.T..... **1.16**



ROTARY CANOPY SWITCH

Single pole switch $\frac{1}{4}$ " shank with brown bakelite knob and 6" leads—1 ampere—250 volts.

No. 1257 Your Cost..... **\$0.40**
10 in Standard Package



BABY KNIFE THROW SWITCHES

Tiny Bakelite Switches for Base or Panel Mounting.

Your Cost

1900—S.P.S.T..... **\$0.28**

1925—S.P.D.T..... **.48**

1935—D.P.S.T..... **.60**

1950—D.P.D.T..... **.56**



BAKELITE KNIFE SWITCHES

Hardware of brass, heavily nickel plated. Mounted on highly polished bases of

Black BAKELITE. Firm contact assured.

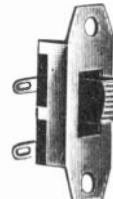
Your Cost

No. 1216—S.P.S.T..... **\$0.68**

No. 1217—S.P.D.T..... **.80**

No. 1218—D.P.S.T..... **.92**

No. 1219—D.P.D.T..... **1.08**



SLIDER SWITCHES Small—Compact

Chrome mounting Plate. Size $1\frac{1}{2}$ " x $\frac{1}{2}$ " x $\frac{1}{4}$ ".

No. Your Cost

1255—S.P.S.T..... **\$0.28**

1258—D.P.S.T..... **.30**

1259—S.P.D.T..... **.32**

1260—D.P.D.T..... **.40**

HI-POWER SWITCH

Push Button Type

Designed to break primary circuit when rack door is open. D.P.S.T. Made by H & H for I.C.A. Capacity 12 Amp. 125 Volt. Overall size $1\frac{3}{4}$ " long, $\frac{3}{4}$ " wide, $\frac{3}{4}$ " high, $\frac{1}{8}$ " shank.

No. 1280 Your Cost..... **\$1.80**



EXTRA HEAVY DUTY SWITCH D.P.D.T. With Neutral Center

An extra large heavy duty. Double Pole, Double Throw Switch with neutral position in the center for use in heavy current circuits such as transmitters, power amplifiers, motors, etc. Contacts have fast "break" which reduces the tendency to arc. Rated at 10 Amps., 125 Volts. Size of switch case, 2" long, 1" high, $1\frac{1}{4}$ " wide. Mounting sleeve diameter $1\frac{1}{2}$ ".

No. 1283 Your Cost..... **\$4.40**



ASK FOR WHAT YOU DO NOT SEE IN OUR CATALOGUE

— WIRE — WIRE — WIRE — WIRE — WIRE — WIRE — WIRE — WIRE — WIRE — WIRE —

AERIAL — MAGNET — HOOK UP — LEAD IN

— WIRE — WIRE — WIRE — WIRE — WIRE — WIRE — WIRE — WIRE — WIRE — WIRE —



COPPER AERIAL WIRES Solid or Stranded

Standard coils.
Larger size coils can
be supplied in any
lengths.

Stock No.	Size	Type	Length	Your Cost
624	7/24	Stranded Copper	75 ft.	\$0.50
625	7/24	"	100 ft.	.65
626	7/24	"	1000 ft.	6.50
627	7/22	"	100 ft.	.96
628	14	Solid Copper	100 ft.	.85
629	14	Solid Enamelled	100 ft.	1.20
630	12	"	100 ft.	1.75
631	12	"	200 ft.	3.50

Note.—Wire prices based on present copper market and are subject to change without notice.

INDOOR AERIAL WIRE Extra Flexible Non-Kinking For AC-DC Sets



Belden 8014

	Your Cost
8014—25 ft. Card.....	\$0.27
8014—500 ft. Coil.....	3.00

STA-PUT PUSH BACK HOOK-UP WIRE WAXED



Double cotton-covered,
with paraffin-treated damp-
proof braid which pushes
back easily. Tinned copper
wire core.

Available in different colours.

No.	Your Cost
R-50—25-ft. roll, solid.....	\$ 0.32
R-51—100-ft. roll, solid.....	1.20
R-52—1000-ft. roll, solid.....	10.42
R-53—25-ft. roll, stranded.....	.39
R-54—100-ft. roll, stranded.....	1.40
R-55—1000-ft. roll, stranded.....	11.63

BELDEN VARNISHED CAMBRIC HOOK-UP WIRE



Belden 8943

Stranded, heavy duty for power transformers
and condenser leads where high heat may be
encountered. 10 different colours. No. 20
gauge.

No.	Your Cost
8943—25 ft.....	\$0.50
8943—100 ft.....	1.80
8943—1000 ft.....	4.50

BELDEN COLORRUBBER STRANDED HOOK-UP WIRE



18 gauge puncturing. Voltage 9000. Supplied
in green, blue, red, black, yellow, brown and
white.

No.	Your Cost
8880—25 ft.....	\$0.50
8880—100 ft.....	1.80
8880—250 ft.....	4.50

CELLULOSE ACETATE PUSH-BACK HOOK-UP WIRE

Hydro approved. For transmitters and
multi-tube receivers. Available in 10 colours.

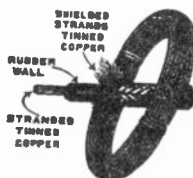
No.	Your Cost
8538—25 ft. Stranded 14 Gauge.....	\$ 0.92
8538—100 ft. Stranded 14 Gauge.....	3.24
8538—500 ft. Stranded 14 Gauge.....	14.88
8547—25 ft. Stranded 18 Gauge.....	.56
8547—100 ft. Stranded 18 Gauge.....	1.95
8547—1000 ft. Stranded 18 Gauge.....	17.05
8541—25 ft. Solid 20 Gauge.....	.46
8541—100 ft. Solid 20 Gauge.....	1.56
8541—1000 ft. Solid 20 Gauge.....	13.20

ALL-RUBBER LEAD-IN AND GROUND WIRE Suitable for Indoor and Outdoor Use



No.	Your Cost
632 No. 20 Stranded..... 100 ft.	\$1.00
633 No. 20 Stranded..... 250 ft.	2.45
634 No. 20 Stranded..... 1000 ft.	9.80
638 No. 14 Solid..... 250 ft.	5.00

SHIELDED LEAD-IN WIRES



All-rubber stranded
lead-in wire, equipped
with over-all shield of
fine mesh tinned copper.
Use with line
matching transformers
or auto trans-
formers between an-
tenna and receiver.
For use with record
players.

No.	Your Cost
639 No. 18—per ft.....	\$ 0.03
640 No. 18—250 ft. roll.....	6.00
641 No. 14—per ft.....	.05
642 No. 14—250 ft. roll.....	10.00

BELDEN NON-KINK FLEXIBLE TEST LEAD WIRE



A very flexible rubber
covered wire that will not
kink or wear down in ser-
vice. Consists of very
fine tinned stranded cop-
per wire with a heavy
wall of live rubber in-
sulation. Red or black.

No.	Your Cost
8899—per ft.....	\$0.04
8899—100 ft. roll.....	2.52

CAB TIRE CABLE R.C. ROUGH USAGE EXTENSION CORDS

For Vacuum Cleaners, Garages,
and General Use.

No.	Type	Size	Your Cost per ft. 250 ft.
813	S.J. Light	2 x 18	\$0.06 \$11.25

HEATER CORD

For Irons, Toasters and Electric
Heaters, etc.

No.	Type	Size	Your Cost per ft. 250 ft.
812	H.P.D.	2 x 18	\$0.05 \$11.00
No.	Type	Size	Your Cost per ft. 250 ft.
812	H.P.D.	2 x 18	\$0.06 \$11.50

RUBBER COVERED LAMP CORDS



Supplied in several colours.

No.	Type	Size	Your Cost per ft. 250 ft.
809	P.O.S.J.	2 x 18	\$0.03 \$5.00
810	P.O. Silk	2 x 18	.04 7.50
811	Pot Plastic covered	2 x 18	.04 6.50

In White, Black, Red, Brown and Green.

ASBESTOS COVERED WIRE FOR ELECTRIC STOVES

No.	Your Cost per ft. 250 ft.
7000—14 Gauge	\$0.06 \$12.00



BELL WIRE

Approximately 150 feet
to the pound.
Double Cotton, Waxed.

No.	Your Cost per pound.....
643—per pound.....	\$0.80

BUS WIRE—TINNED COPPER ROUND

No.	Your Cost
18—100 ft.....	\$0.60
14—100 ft.....	.80
12—100 ft.....	1.00

WIRE TABLE

Size	Approx. ft. per lb.	Size	Approx. ft. per lb.
18.....	200	28.....	2,050
20.....	320	30.....	3,205
22.....	506	32.....	5,000
24.....	810	34.....	7,550
26.....	1,300	36.....	11,500

MAGNET WIRE ON SMALL SPOOLS

Plain Enamel				Single Cotton Enamel				Single Silk Enamel				Formel			
Size	1/4 lb.	1/2 lb.	1 lb.	Size	1/4 lb.	1/2 lb.	1 lb.	Size	1/4 lb.	1/2 lb.	1 lb.	Size	1/4 lb.	1/2 lb.	1 lb.
18	\$0.44	\$0.79	\$1.57	18	\$0.50	\$0.92	\$1.83	18	\$0.60	\$1.11		18	\$0.48	\$0.86	
19	.44	.80	1.59	19	.52	.95	1.89	19	.62	1.15		19	.48	.88	
20	.45	.81	1.61	20	.53	.98	1.95	20	.64	1.20		20	.49	.90	
22	.47	.85	1.70	22	.58	1.07	2.14	22	.70	1.32		22	.51	.95	
24	.48	.87	1.74	24	.61	1.14	2.28	24	.75	1.42		24	.54	.99	
26	.50	.91	1.81	26	.67	1.25	2.49	26	.86	1.64		26	.57	1.05	
28	.51	.93	1.86	28	.75	1.41	2.81	28	.97	1.85		28	.62	1.16	
30	.69	1.21	2.42	30	1.01	1.85	3.70	30	1.29	2.42		30	.82	1.56	
32	.71	1.26	2.51	32	1.16	2.15	4.29	32	1.49	2.82		32	.92	1.68	
34	.75	1.34	2.67	34	1.34	2.51	5.01	34	1.84	3.51		34	1.00	1.84	
36	.81	1.45	2.89	36	1.64	3.12	6.24	36	2.43	4.69		36	1.13	2.10	
38	.89	1.62	3.24	38	2.44	4.73	9.45	38	3.02	5.87		38	1.24	2.31	
40	1.14	2.12	4.23	40	3.24	6.31	12.61	40	4.15	8.14		40	1.57	2.98	

MICROPHONE ★ SPEAKER ★ TRANSMISSION CABLE

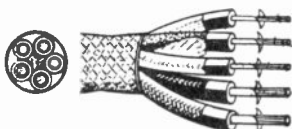
BELDEN SHIELDED MULTIPLE CABLE



For temporary indoor installations of low impedance or carbon microphone transmission circuits. 20 (10 x 30 tinned), paper wrap, 1/4" rubber, color coded glazed cotton braid lacquered, cabled with tinned copper shield overall.

No.	Cond.	per ft.	Your Cost per 100 ft.
8432	2		\$0.12 \$ 7.20
8433	3		.14 8.65
8434	4		.19 11.40

MULTI-CONDUCTOR BATTERY AND SPEAKER CABLES



For permanent installation, remote control equipment, multi circuits and speakers, testers, battery hook-up and general uses. Each conductor is differently colored for easy identification. Flexible cotton braid.

No.	Cond.	per ft.	Your Cost per 100 ft.
793	3		\$0.07 \$ 5.25
794	4		.08 6.25
795	5		.12 8.70
796	6		.14 12.00
797	7		.18 14.00
798	8		.22 18.00
799	9		.24 20.00
710	10		.28 24.00

BELDEN MICROPHONE CABLE SHIELDED-RUBBER-SHEATHED



For single or multiple circuits Crystal and Carbon microphones.

No.	Cond.	per ft.	Your Cost per 100 ft.
8401	1		\$0.10 \$ 7.92
8411	1 Lapel Cable		.08 6.00
8422	2		.12 10.00
8423	3		.15 12.00
8424	4		.18 14.40

AMPHENOL SHIELDED MICROPHONE CABLE



Single conductor. Capacity 35 mmfd. per foot. Polyethylene core with copper braid shield, black Vinylite overall cover. Light insulation.

No. 21-146—Your Cost, per ft. \$0.10

8663 BELDEN AUTO RADIO SHIELDED LEAD-IN WIRE

For Auto Radio Installations

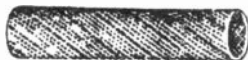


Jute fillers are wrapped around conductor and shielding overall produces very efficient wire for auto radio use.

No.	Your Cost
8656—per foot.....	\$0.09
8656—per 100 ft.....	6.24

BELDEN TINNED COPPER SHIELDING

For Auto-Radios, etc.



A very flexible sleeve shield that slides over cables and bunched conductors. Shapes perfectly and can be stretched in width and length. Forms perfect electrostatic and interference shield. Used in auto radio installations, shielding amplifier wires, amateur stations, etc. Shipped flattened.

No.	Inside Diameter	Per ft.	Your Cost
8660	1/4"	50 ft.....	\$0.04
8660	1/2"	50 ft.....	1.70
8661	3/8"	Per ft.....	.08
8661	3/8"	50 ft.....	2.65
8662	1/2"	Per ft.....	.25
8662	1/2"	50 ft.....	9.36

FLAMESEAL WIRES AND CABLES

For Radio and Electrical Wiring

- ★A thin insulation wall
- ★Moisture resistant
- ★High heat conductivity
- ★High dielectric strength
- ★Toughness to withstand physical abuse
- ★Stability and resistance to the effects of heat.
- ★Supplied in 7 colors: yellow, orange, blue, green, red, white, black.

No.	Type	Size	per ft.	Your Cost per 250 ft.
802	Solid	20	\$0.01 1/2	\$3.00
803	Solid	18	.01 1/2	3.50
804	Solid	14	.02 1/2	5.00
806	Stranded	20	.01 1/2	3.25
807	Stranded	18	.02	3.75

APPLICATIONS:

- BUILDING WIRE • CONDUIT AND DUCT WIRING • CONTROL EQUIPMENT
- MOTOR LEADS AND MACHINE TOOLS
- MARINE WIRING • SWITCHBOARDS
- HOOK-UP • WIRING RADIOS AND P.A. EQUIPMENT

ELECTRICAL WIRES & CABLES

No.	Type	Size	per ft.	Your Cost per 1000 ft.
639	No. 14 R.C. S.B. Solid			
640	No. 12 R.C. S.B. Solid			
641	No. 10 R.C. S.B. Solid			
642	No. 8 R.C. S.B. Solid			
643	No. 14 R.C. S.B. Stranded			
644	No. 12 R.C. S.B. Stranded			
645	No. 10 R.C. S.B. Stranded			
646	No. 8 R.C. S.B. Stranded			

LOOMEX NON-METALLIC-SHEATHED CABLE

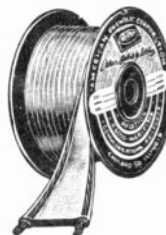
No.	Cond.	Size	per ft.	Your Cost per 1000 ft.
647	2 Cond	14 Solid		
648	3 Cond	14 Solid		
649	2 Cond	12 Solid		
650	3 Cond	12 Solid		

BX ARMoured FLEXIBLE CABLE

No.	Cond.	Size	per ft.	Your Cost per 1000 ft.
651	2 Cond	14 Solid		
652	3 Cond	14 Solid		
653	2 Cond	12 Solid		
654	3 Cond	12 Solid		
655	2 Cond	10 Solid		
656	3 Cond	10 Solid		
657	2 Cond	8 Stranded		
658	3 Cond	8 Stranded		
659	2 Cond	6 Stranded		
660	3 Cond	6 Stranded		
661	2 Cond	4 Stranded		
662	3 Cond	4 Stranded		

Wire Prices Subject to change without notice.

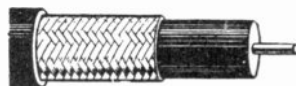
AMPHENOL TWIN LEAD TRANSMISSION LINE



High efficiency—low loss. Tough, inexpensive, repels water; unaffected by acids, alkalis and oils. Remains flexible in temperatures as low as 70° F., and does not become brittle after continuous aging in sunlight.

No.	Ohms	Capacity per foot	Your Cost per foot
14-080	75	19 mmf.	\$0.03
14-079	150	10 mmf.	.03 1/2
14-056	300	5.8 mmf.	.04 1/2
14-023	72 for 1 kilowatt		.10

AMPHENOL COAXIAL CABLES



75 Ohms

20 mmfd. per foot. Inner conductor, 7-26 tinned; copper inner shield, black Vinylite outside jacket.

No. RG-11-U—Your Cost, per ft.	\$ 0.23
100 ft.	20.23

72 Ohms

22 mmfd. per ft. Single No. 22 conductor. Copper inner shield, black Vinylite outside jacket.

No. RG-59-U—Your Cost, per ft.	\$ 0.15
100 ft.	13.80

SPECIAL CO-AX-CABLES

Large variety of Amphenol cables available. Space does not permit complete listing. Send us your inquiries and specifications for quotations.

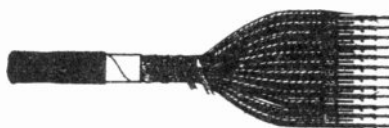
TRANSMISSION CABLE



Especially designed for use with doublet antenna systems. Used extensively as the transmission line for Philco, Victor and other radios. Consists of two rubber covered conductors covered by a weatherproof cotton outer braid.

No. 700—per foot—Your Cost.....	\$0.03 1/2
No. 700—per 100 ft.—Your Cost.....	3.25

COMMUNICATING SYSTEM CABLES



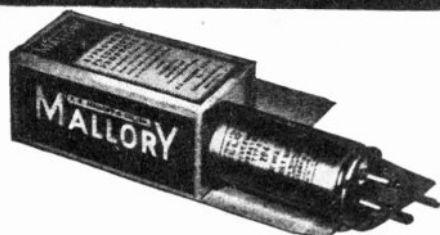
All in assorted colours. No. 20 Gauge. Stranded tinned copper. 1/4" R.C. S.C. Braid Brown Cotton Braid overall.

No.	Per ft.	Your Cost
R245—5 pairs.....		\$0.22
R246—10 pairs.....		.33
R247—15 pairs.....		.58
R248—20 pairs.....		.75
R249—25 pairs.....		.93
16 Wire Shielded Inter-com. cable. Each wire marked with tracer.		
Your Cost—Per ft.....		\$0.35

EVERY TYPE OF WIRE & CABLE IS AVAILABLE AT C.E.S.

Approved PRECISION PRODUCTS

MALLORY



VIBRATORS FOR AUTO AND HOME RADIOS

FREE—VIBRATOR GUIDE, write for your copy of this Mallory booklet, containing complete listings of auto radios and information on servicing and installation.

SPECIAL OFFER! 10% Additional Discount on Orders of 10 or More Vibrators.

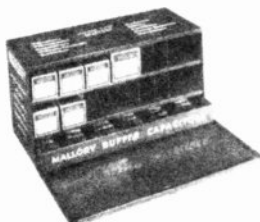
Mallory Vibrators are original equipment in the auto radio receivers built for Buick, Chevrolet, Ford, Hudson, Nash, Oldsmobile, Pontiac, Sears-Roebuck, Western Auto and Firestone. They are also standard in the receivers built by RCA Zenith, Stromberg Carlson, Stewart-Warner, Crosley, Sparten and other outstanding manufacturers.

Type No.	Volt	Type	Base Dia.	Can Type	Your Cost
222	6	Syn.	20	2	\$5.28
245	6	Syn.	21	1	4.77
245A	6	Syn.	21	1	4.77
245C	6	Syn.	28	1	4.77
W245	4	Syn.	21	1	4.77
W245A	4	Syn.	21	1	4.77
246	6	Syn.	38	1	4.77
246A	6	Syn.	38	1	4.77
W246	4	Syn.	38	1	4.77
247	6	Syn.	46	1	4.77
F247	32	Syn.	46	1	5.28
248	6	Syn.	44	1	4.77
249	6	Syn.	49	1	4.77
270B	6	Syn.	23	1	5.73
ADAPTER					.93
271HD	6	Syn.	24	1	5.73
273C	6	Syn.	29	1	5.28

Type No.	Volt	Type	Base Dia.	Can Type	Your Cost
273D	6	Syn.	31	1	\$5.28
292	6	Int.	3	2	3.30
294	6	Int.	8	1	2.82
F294	32	Int.	10	1	4.29
298	6	Int.	51	1	3.78
F502P	32	Int.	9	5	5.73
505P	6	Int.	8	1	2.37
506P	6	Int.	36	1	3.78
514	6	Syn.	30	6	4.77
716	6	Syn.	30	7	4.77
*725C	6	Syn.	32	1	5.28
*G725C	12	Syn.	32	1	6.24
742	6	Syn.	32	1	4.77
743	6	Syn.	38	1	4.77
748	6	Syn.	44	1	4.77
*G749C	12	Syn.	21	1	6.24
*825C	6	Int.	8	1	4.32

Type No.	Volt	Type	Base Dia.	Can Type	Your Cost
*826C	6	Int.	8	1	\$3.78
*F826C	32	Int.	8	1	4.77
*G826C	12	Int.	8	1	4.77
839	6	Int.	8	1	3.30
852	6	Int.	14	3	2.82
853	6	Int.	10	3	2.82
854	6	Int.	11	1	2.82
859	6	Int.	8	1	2.82
860	6	Int.	14	7	2.82
870	6	Int.	14	1	2.82
901M	6	Int.	8	1	2.37
952W	6	Syn.	16	1	4.77
953W	6	Syn.	16	1	4.77
954	6	Syn.	39	1	4.77
1100	6	Int.	8	1	2.82
T4002	2	Syn.	52	1	6.69
T4003	2	Syn.	50	1	6.15

*Hermetically sealed construction.



FREE!

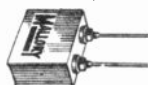
MALLORY VIBRATOR DEAL HANDSOME STURDY CABINET When you purchase this attractive Mallory Vibrator Kit

Consists of 6 fast selling Vibrators and 12 assorted Buffer Condensers
No. 2448 Complete Kit Your Cost—Approx. \$30.00

VIBRATOR BUFFER CAPACITORS

VB are oil impregnated
VD & VO are wax filled

For replacement of original vibrator buffer and hash suppressor capacitance of similar design.



Mallory Cat. No.	Cap. Mfd.	Working Volts DC	Your Cost
VB470	.0075	1600	\$0.87
VB471	.01	1600	.93
VD491	.0008	1600	.81
VO480	.5	120	.81



TYPE OW
1600V. D.C.W.

Oil impregnated and wax filled

No.	Cap.	Your Cost	No.	Cap.	Your Cost
OW340	.0005	\$0.45	OW346	.0075	\$0.48
OW341	.001	.45	OW333	.008	.48
OW331	.002	.45	OW334	.01	.48
OW342	.003	.45	OW335	.015	.48
OW343	.004	.45	OW336	.02	.48
OW332	.005	.45	OW337	.03	.48
OW344	.006	.45	OW338	.04	.57
OW345	.007	.45	OW339	.05	.57

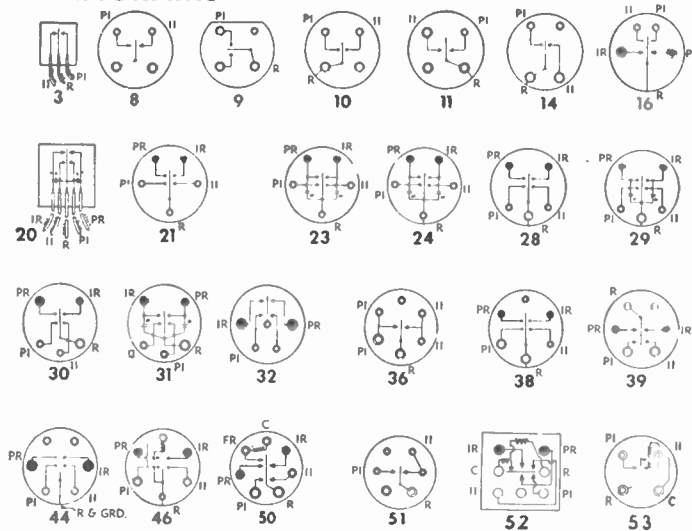
Mallory Vibrator Data Book CLEARLY EXPLAINS

- ★ Basic Vibrator Structure
- ★ Mallory Standard Vibrators
- ★ Preliminary Design, consideration
- ★ The choice of a vibrator



- ★ Basic Power Transformer Characteristics
 - ★ Tables, Charts, Graphs and Formulas
 - ★ Vibrator Power supply Circuits
 - ★ Inspection of vibrators.
- Your Cost. \$1.40

BASE DIAGRAMS



R Reed
PI—Pull Interrupter
PR Pull Rectifier
II Inertia Interrupter
IR Inertia Rectifier
C Coil
FR Frame

LOW LOSS ANTENNA LEAD CABLES



General Purpose leads that are heavy lacquered and protected by shielded loom covered with processed braid.

No.	Description	Your Cost
3025—4 ft.	—Male connector and aerial and ground lead	\$1.02
3027—8 ft.	—Male connector and aerial and ground lead	1.39
3023—2 ft.	—Male and female connectors . . . . .	.72
3024—2 ft.	—Both male connectors . . . . .	.72
3017S—3 ft.	—Male connector and ground box	1.23
3017M—3 ft.	—Set plug-in for motorola and ground box	1.23

CANADIAN EDITION — MALLORY ENCYCLOPAEDIA — YOUR COST \$1.50

AUTO ACCESSORIES

HARDWARE FOR CAR AERIAL

NO. 516 STRAIGHT SIDE COWL MOUNTING

For antennas with $\frac{3}{8}$ " dia. tubing



Quan.	Type	Description	Your Cost
2	A	Porcelain Insulators	\$0.24
2	B	Rubber Pads	.04
2	C	Eye bolts	.06
2	D	Spider Washers	.05
1	E	Shield Cup	.08
2	F	Shoulder Bushings	.03
1	G	Set of 2 flat washers and 4 nuts	.08

No. 516—Complete Kit..... 1.00

NO. 518 STRAIGHT SIDE COWL MOUNTING

For antennas with $\frac{3}{8}$ " dia. tubing

Quan.	Type	Description	Your Cost
2	AA	Porcelain Insulators	\$0.30
2	B	Rubber Pads	.05
2	CC	Eye bolts	.08
2	D	Spider Washers	.05
1	E	Shield Cup	.08
2	F	Shoulder Bushings	.03
1	GG	Set of 2 flat washers and 4 nuts	.11

No. 518—Complete Kit..... 1.20

NO. 517 SLOPING COWL MOUNTING

For antennas with $\frac{3}{16}$ " dia. tubing



Quan.	Type	Description	Your Cost
2	A	Porcelain Insulators	\$0.24
2	B	Rubber Pads	.05
2	C	Eye bolts	.06
2	D	Spider Washers	.05
1	E	Shield Cup	.08
2	F	Shoulder Bushings	.03
1	G	Set of 2 flat washers and 4 nuts	.08

No. 517—Complete Kit..... 1.00

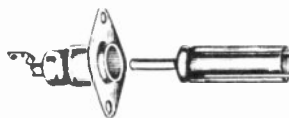
NO. 519 SLOPING COWL MOUNTING

For antennas with $\frac{3}{8}$ " dia. tubing

Quan.	Type	Description	Your Cost
2	AA	Porcelain Insulators	\$0.30
2	B	Rubber Pads	.05
2	CC	Eye bolts	.08
2	D	Spider Washers	.05
1	E	Shield Cup	.08
2	F	Shoulder Bushings	.03
1	GG	Set of 2 flat washers and 2 flat nuts	.11

No. 519—Complete Kit..... 1.20

ANTENNA CONNECTOR PLUG



No.	Your Cost
9611	\$0.20
1320	.14

Auto-Rola

CAR RADIO

DESIGNED TO FIT ANY CAR AND A PRICE TO SUIT EVERY POCKET

Check These Features:

- ★ 90 day factory warranty
- ★ 6 Full-size tubes
- ★ 6" separate speaker
- ★ Fits any car
- ★ Good Tone quality
- ★ Extreme sensitivity
- ★ All standard parts used

UNEXCELLED AT THE PRICE —

List Price	\$64.95
Your Cost Ea.	47.50



FREE: Counter display card. Ask for one.

ICA AUTO ANTENNA CONNECTORS AND ADAPTERS



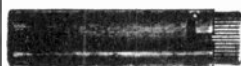
No. 2347

Antenna Connector
Your Cost Ea. \$.08
Lots of ten... .72



No. 2348

Standard Fuse Holder
Your Cost Ea. \$0.12
Lots of ten... 1.08



No. 2349

Jumbo Fuse Holder
2 1/2 long x 1/2 wide
Your Cost Ea. \$0.24
Lots of ten... 2.16



No. 2372

Lead-in Adapter—convert standard leads to Motorola Fittings.
Your Cost Ea... \$0.24 Lots of ten... \$2.16



No. 2375

Motorola Pin Plug
Your Cost Ea... \$0.08 Lots of ten... \$0.72



No. 2378

Motorola Shielded Jack
Your Cost Ea... \$0.17 Lots of ten... \$1.53



No. 2396

Lead in Adapters — converts Motorola lead to Delco Fittings.
Your Cost Ea... \$0.08 Lots of ten... \$0.72

WHEEL HUB STATIC ELIMINATOR



Used under hub of front wheel. An essential on all cars to eliminate front wheel static. Less back Plate and screw.

Your Cost
No. 4476B—Per pair... \$0.25

MASTER DISTRIBUTOR SUPPRESSOR

10,000 Ohms

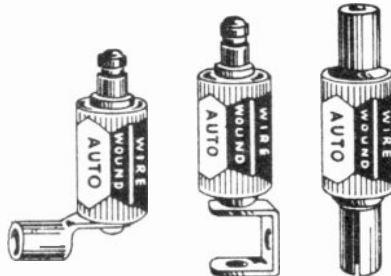
For use on new type cars where only one Suppressor is needed. "Master Suppressor" is guaranteed to eliminate all motor noises—avoiding the necessity of individual suppressors.

No. 330. Your Cost... \$0.60



DELUXE HEAVY DUTY WIREWOUND SUPPRESSORS

Effectively suppress ignition noise



169

170

171

Wire Wound Suppressors have a continuous wire circuit from end to end, insuring a permanent resistance value. There is no danger of burnout, no decrease in engine power, no reduction of speed or fuel waste. All hardware of rustproof brass.

No.	Type	Your Cost
169	Snap on	\$0.52
170	Angle	.52
171	Distributor	.52

FORD V8 DISTRIBUTOR SUPPRESSOR



Unit consists of a resistor brush which replaces regular distributor brush.
No. 4461—Your Cost... \$0.28

For 1937 Models

Small Diameter Suppressor.
No. 4463—Your Cost... \$0.28

SAVE TIME AND MONEY—DO NOT SPLIT YOUR ORDERS

WORLD'S FINEST FOR

HOUSE — GENERAL USES — FM — TELEVISION



WARD

AERIALS

HOUSE AND WINDOW MAST ANTENNA

MODEL HM-4

4 SECTION, 12 FOOT, collapsible to 47 inches. Easy installation. Universal mounting brackets. Heavy weatherproof cadmium plating. Built-in lightning arrestor.

COMPLETE INSTALLATION FITTINGS INCLUDED

60' Lead Wire—Ground Clamp—4 Wood Screws—2 Nail-it Knobs—1 Porcelain Tube—1 Lead-in Strap—2 Soil Pipe Straps.

Model HM-4—List Price..... \$8.93
Your Cost..... 5.36

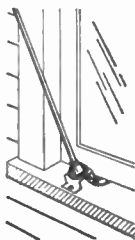


WINDOW MAST

**For Apartment, Homes,
Office Buildings!**

A simple 3 point, 3 minute installation with a two-way bracket for either window sill or sash mounting. 3 section, 8 foot telescopic tubing; Heavy Cadmium weather resistant plating.

Model WM-3—List Price..... \$3.89
Your Cost..... 2.34



ROOF TOP MOUNT

21 inch Rod for inter-communication on 140-165 Mc Band. Simplest installation. Attached 12' coaxial lead cable.

Model SPP-18

List Price.... \$14.30
Your Cost.... 8.58



MOTORCYCLE MOUNT

Flexible, durable 42" whip rod mounted in a heavy rubber shock mounting base.

Model SPP-6 Ring Tip

List Price.... \$11.07
Your Cost.... 6.99

Model SPP-6A Ball Tip

List Price.... \$11.07
Your Cost.... 6.99



FOR SPECIAL COMMUNICATIONS Universal Swivel Mount

A short wave and FM antenna to withstand hardest mobile use. Separate components may be combined to meet any requirements.

SPP-3—Cast iron SWIVEL BASE for mounting at any point desired.

List Price..... \$15.82
Your Cost..... 9.49

SPP-3A — SHOCK MOUNTING SPRING for fullest protection against impact damage.

List Price..... \$9.45
Your Cost..... 5.67

Special alloy WHIP ROD of maximum resilience and durability.



SPP-3B—Single Rod, 84"..... \$10.57 \$17.62
SPP-12—Adjustable Rod, 103"..... 16.16 26.93

STRAIGHT DI-POLE

For extra saleability these FM and Television antennas are completely adaptable to the varying requirements of each installation. They provide maximum electrical efficiency. Easy installed, plug strong weather-proof construction insures trouble-free operation—FM for 88-106 Mc. Range.

Model FM-60—

Your Cost..... \$ 6.47
List Price..... 10.68

FOLDED DI-POLE

Especially designed for broader antenna tuning and matched impedance to the 300 ohm transmission line for maximum response and energy transfer. FM for 88-106 Mc. Range.

Model FM-55—

Your Cost..... \$ 7.38
List Price..... 12.31

TURNSTILE DI-POLE Features . .

- High signal Gain from all directions.
- Recommended where FM transmitters are in several directions from the receiver.
- No orienting required.
- Unit comes complete with all hardware.
- Very little assembly required.
- Quick installation with simple instructions to follow.

Model FMT-61

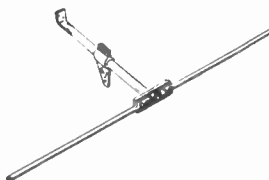
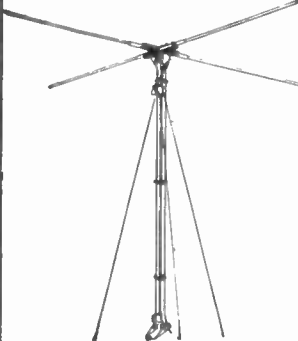
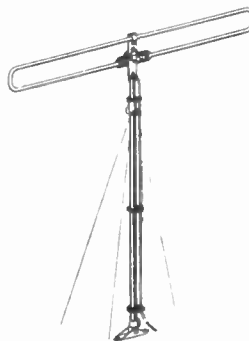
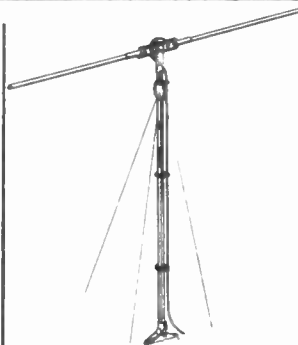
Your Cost..... \$11.16
List Price..... 18.60

REFLECTOR KIT

Ward's Reflector Kit combined with either the Straight or Folded Di-Poles as shown above, provides maximum directional gain of the desired signal and eliminates undesirable and interfering reflections. Weather-proof. Can be rotated to any direction and tilted for any angle. FM Reflector Kit.

Model FMR-63—

List Price..... \$6.32
Your Cost..... 3.79



**When You Cannot
Visit Our Store
TELEPHONE**



FOR FASTER SERVICE ORDER FROM OUR NEAREST BRANCH

Household Antennas

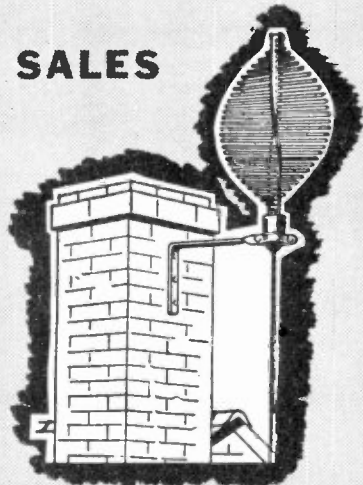
FOR FASTER, SURER AERIAL SALES

TRAPEZE

**NOW SWEEPING THE COUNTRY!
A RADIO AERIAL—WITHOUT POLES**

- ★ Easily installed in a few minutes.
- ★ Eliminates risk of blown down poles.
- ★ All directional, ideal for short wave.
- ★ 50 feet of plastic lead-in wire included.
- ★ Replaces unsightly poles.
- ★ Satisfaction guaranteed.

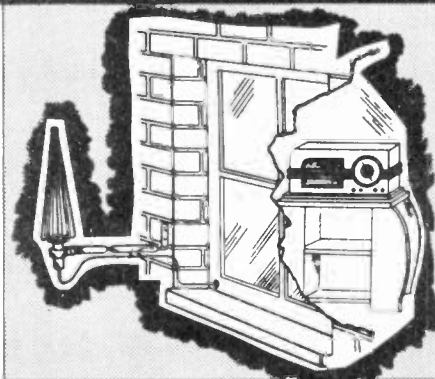
Model 501—List Price..... \$4.95 Your Cost... \$3.30



MARVEL

- ★ Easily installed in a few minutes.
- ★ Ideal for apartments.
- ★ Improves selectivity.
- ★ Reduces electrical interference.
- ★ 40 feet of plastic lead-in wire included.
- ★ Satisfaction guaranteed.

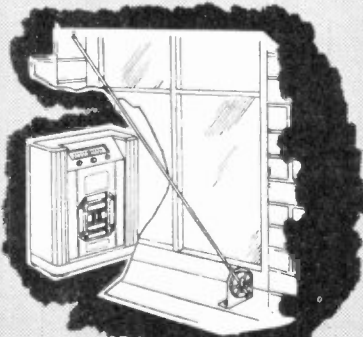
Model 502—List Price..... \$2.49 Your Cost... \$1.66



SKYMASTER

- ★ Will not rust.
- ★ Durable, easily mounted.
- ★ Adjustable bracket.
- ★ 6 feet 5 inches in length—2 sections.
- ★ 25 feet lead-in wire included.
- ★ Satisfaction guaranteed.

Model 503—List Price \$3.95 Your Cost \$2.63



COPPER AERIAL WIRE

- ★ Conveniently packed for fast selling.
- ★ Made in England.

75 ft. Roll—List Price	\$1.50	Your Cost.....	\$1.00
50 ft. Roll—List Price	1.00	Your Cost.....	.67
25 ft. Roll—List Price.....	.50	Your Cost.....	.34

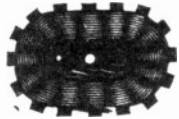
Order Now!



BETTER AERIALS FOR BETTER RECEPTION

AERIAL EQUIPMENT—INSULATING MATERIALS

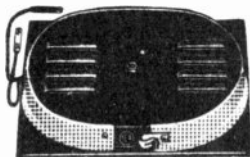
J.F.D. ANTENNA LOOPS



Ideal for battery and midget sets or portables. Replaces an Antenna Coil; gives satisfactory pickup and excellent selectivity. Inductance slightly higher than necessary, permitting removal of turns for adjustment.

No.	Size	Your Cost
21-1	4" x 5 1/2"	\$0.88
21-3	5 1/2" x 8"	.88
21-5	6 1/2" x 9 3/4"	.88

ICA TENNA-SCOPE



A new style built-in tuned radio antenna. Easily connected. Eliminates use of outside aerial and ground. Features: Better selectivity—Higher signal to noise ratio—Easily connected, no soldering.

No. 4380 Your Cost..... \$2.40

ICA 3-IN-1 RADIO TUNER



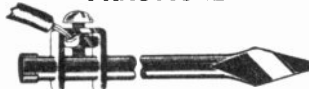
Functions as either an Antenna Tuner, Wave Trap, or Aerial Eliminator. Operates on any make or model radio set.

As an Antenna Tuner, it will improve the reception of a weak station. As a Wave Trap, it will separate interfering stations and improve selectivity. As an Aerial Eliminator, it makes unnecessary the outdoor aerial. Easily installed within a few minutes.

50 to a standard package.

Your Cost
No. 93—Complete with instructions.... \$0.80

GROUND RODS—SIMPLE, PRACTICAL



Heavy galvanized finish for rust prevention. Fully 4 ft. long and complete with wire clamp. Your Cost..... \$0.65



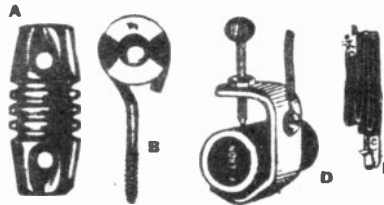
BLACK HIGH GRADE TAPE

Each Roll	Your Cost
2-oz.	\$0.12
8-oz. ....	.35
2-oz. per lb.	.80
8-oz. per lb.	.70

FYBROID "Fish Paper"

Excellent for insulating purposes, specially treated with paraffin. No. 560. .010" thick, 240 sq. in. Sheet. Your Cost..... \$0.40

AERIAL ACCESSORIES



A AERIAL INSULATOR

Glazed for minimum leakage. Porcelain.

Your Cost	Your Cost
Each.....	\$0.08
Per dozen.....	.90
Per 100.....	7.20

B WALL SCREW EYE INSULATORS

Your Cost	Your Cost
3", each.....	\$0.08
3", doz. lots.....	.90
6", each.....	.10
6", doz. lots.....	1.10

C S.S. LIGHTING ARRESTERS

A dependable air gap type arrester.

Your Cost	Your Cost
Porcelain base each.....	\$0.25

D MUELLER GROUND CLAMP

Makes a vise-like grip on pipe. Perfect contact.

Your Cost	Your Cost
No. 58 Each.....	\$0.17
No. 58 Box of 10.....	1.20

F 12" LEAD-IN STRIP

Your Cost	Your Cost
Duco cambric insulated strip.....	\$0.15
Dozen lots.....	1.65

E GROUND CLAMPS

Copper with Fahnestock clip.

Your Cost	Your Cost
Each.....	\$0.04
Per dozen.....	.45



BAKELITE TUBING Black Only— Cut to Size

Outside diameter, per running inch.

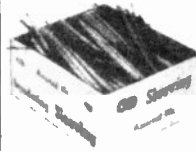
Size	Your Cost	Size	Your Cost
1 1/4".....	\$0.06	2 1/4".....	\$0.18
1 1/2".....	.06	2 1/2".....	.20
1 3/4".....	.08	3".....	.22
1 7/8".....	.10	3 1/2".....	.24
1 1/2".....	.12	3 1/2".....	.26
1 3/4".....	.14	3 3/4".....	.28
2".....	.16	4".....	.30

RADIO SPAGHETTI



High grade Spaghetti for radio and television. Assorted colours. All 36" long.

Size	Your Cost	Size	Your Cost
1 1/4".....	\$0.10	3".....	\$0.45
1 1/2".....	.11	3 1/2".....	.33
1 3/4".....	.14	1 1/2".....	.55
1 7/8".....	.20	3 3/4".....	.88



SPAGHETTI KIT

Hundreds of short length of tubing. Assorted colours.

No. 551—Kit Your Cost..... \$1.00

INSULATING CAMBRIC "Breakdown Voltage—10,000 Volts"



Dry yellow varnished cambric for field coils, transformers, chokes, resistors, etc.

No. 549. 210 sq. in. Your Cost..... \$0.60



STANDARD AERIAL KIT

Packed in attractive box.

Includes All Items Listed Below

- 100 feet Aerial Wire,
- 30 feet R.C. Lead-in Wire,
- 2 Porcelain Insulators,
- 1 Window Lead-in Strip,
- 1 Adjustable Ground Clamp.

Your Cost.....	\$0.90
List Price.....	1.50

AERIAL KITS

DE LUXE PARAGON AERIAL KIT

Contains All Items Listed Below

- 75 feet 7 x 24 Aerial Wire,
- 50 feet Lead-in Wire,
- 1 Ground Clamp,
- 2 Porcelain Screw Eye Insulators,
- 2 Porcelain Insulators,
- 1 Window Lead-in Strip,
- 1 Lightning Arrester.

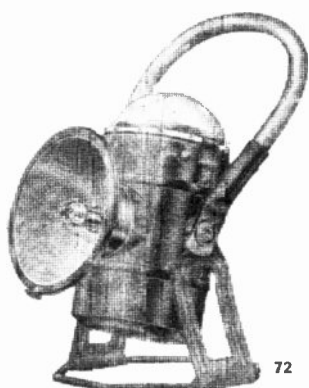
Packed in neat display box.

Your Cost.....	\$1.55
List Price.....	3.50

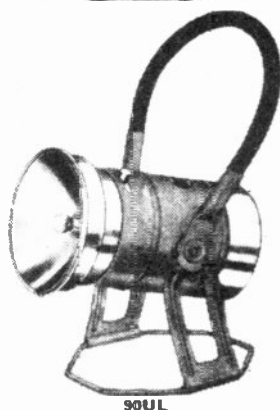
GUARANTEED SATISFACTION OR MONEY REFUNDED

|||||BURGESS|||||

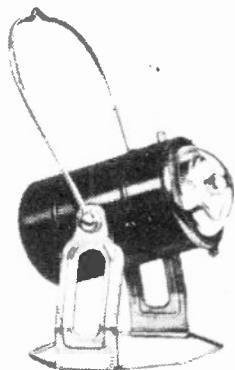
LANTERNS, FLASHLIGHTS and HOLDERS



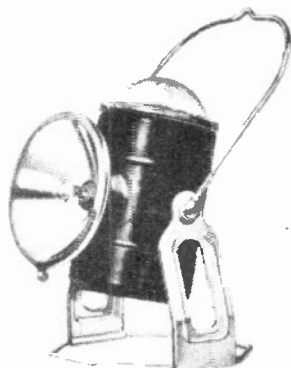
72



90UL



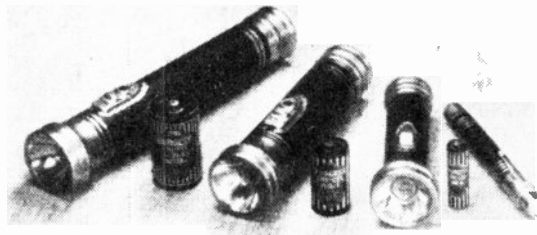
300



400



No. 29



No. 327

No. 226

No. 216

No. 296

Flashlight Case No.	DESCRIPTION	List Price Less Batt.
216	Prefocused—1 1/2" Head, all Brass, Baby Tubular, uses 2 No. 1 Uni-Cels	\$1.45
226	Prefocused—1 3/4" Head, all Brass, Lock Switch, uses 2 No. 2 Uni-Cels	1.70
327	Prefocused—1 3/4" Head, all Brass, Lock Switch, uses 3 No. 2 Uni-Cels	2.30
296	Penlite—All Brass, End Cap Snap Switch, mounted 10 on a Display Card	.80 ea.
29	Pocket Lite—Plastic, handy Thumb Switch, uses 2 No. 9 Uni-Cels	.65

INDUSTRIAL TYPE LANTERNS

Lantern No.	DESCRIPTION	Uses Batt. No.	List Price Less Batt.
72	Dual Purpose Safety Lite. Has Underwriters' Approval	F4H	\$6.60
90 UL	Safety Lite, for use in Atmosphere containing Gas	F4H	6.00

GENERAL PURPOSE LANTERNS

300	Focusing Reflector, can be used as a Spot or Broad Beam	F4H	\$4.45
400	Duo-Ray—Combination Broadbeam and Spot Light	F4H	4.50

BICYCLE and CAR FLASHLIGHT HOLDERS

	Bicycle Flashlight Holder, for securely fastening Flashlights to Handle Bars of Bicycles, all Steel, Crack'e Finish, with Rubber Rollers	1	\$0.25
	Automobile Steering Column Flashlight Holder. An essential for every car owner who carries a Flashlight for use in an emergency	1	.25

BURGESS PENLIGHT DISPLAYS INCREASE YOUR SALES

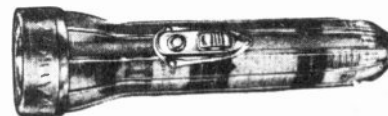


List Price—Complete Display.... \$8.00

PLASTIC FLASHLIGHTS



No. 122



No. 100

Fitted with a 3 point positive "on" and "off" switch, flashing button set switch at the half-way notch, steady beam set switch, and spring steel clip. Will operate under water. Fully Guaranteed.

No.	List Price
100—Plastic Eye.....	\$1.65
122—Right Angle.....	2.75

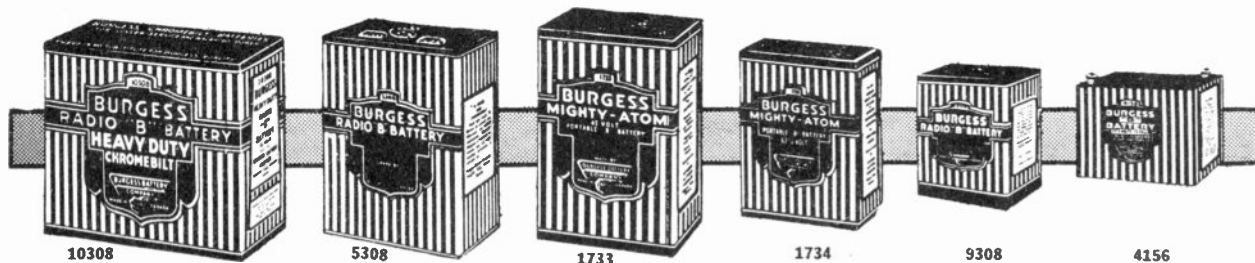
DEALERS — WRITE FOR CONFIDENTIAL PRICE LIST

|||||BURGESS|||||

RECOGNIZED BY THEIR STRIPES

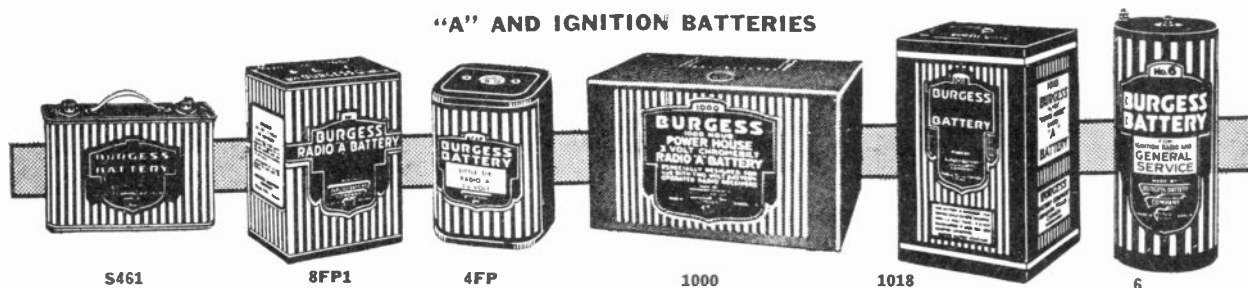
REMEMBERED BY THEIR SERVICE

BURGESS "B" BATTERIES



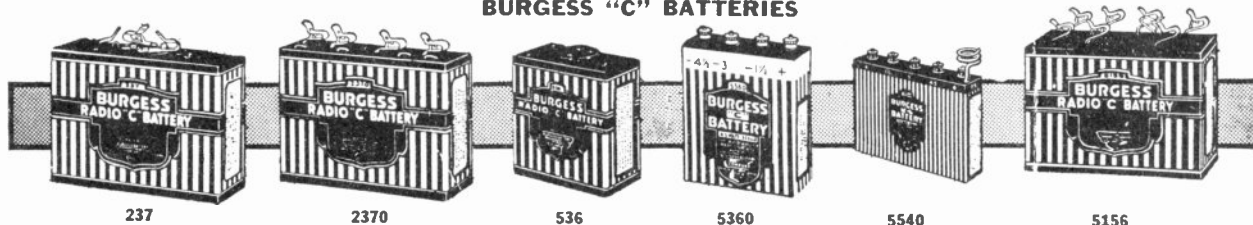
Stock Number	Description	Voltage	Standard Package	Size	Eveready No.	General Dry No.	List Price
21308	Super Service, Plug-in Type.....	45	4	8x4 1/2 x 7 1/2"	386	3081	\$4.80
10308	Heavy Duty, Plug-in Type.....	45	6	8x4x7"	770	3061	4.30
2308	Standard Size, Plug-in Type.....	45	6	8x3 1/8 x 7"	385	3041	3.60
5308	Portable, Plug-in Type.....	45	10	4 1/8 x 2 1/8 x 5 1/2"	762	3021	3.25
1733	"Mighty Atom" Portable, Plug-in Type.....	45	10	3 1/2 x 1 3/4 x 5 3/8"	482	F30A	3.25
1734	"Mighty Atom" Portable, Snap Fastener.....	67 1/2	1	3 3/8 x 2 1/4 x 1 1/8"	467	W45A	3.70
4156	Flat Type, Portable, Binding Posts "B" or "C".....	22 1/2	1	3 1/2 x 2 1/8 x 2 3/4"	—	142	1.90
9308	Vertical Portable, Plug-in Type.....	45	1	3 1/8 x 2 1/4 x 3 1/8"	738	V30AA	4.10

"A" AND IGNITION BATTERIES



Stock Number	Description	Voltage	Standard Package	Size	Eveready No.	General Dry No.	List Price
4FP	Portable, Plug-in Type.....	1 1/2	12	2 5/8 x 2 5/8 x 4 1/2"	742	144	\$ 0.90
F4P1	Portable, Plug-in Type.....	6	1	2 5/8 x 2 5/8 x 4 1/2"	—	—	.90
8FP1	Portable, Plug-in Type.....	1 1/2	12	3 7/8 x 5 5/8 x 2 1/2"	741	148	1.75
810	Portable, Plug-in Type.....	6	12	2 5/8 x 5 5/8 x 3 1/8"	718	468	1.75
812	Portable, Plug-in Type.....	6	12	10 1/2 x 1 3/8 x 3 1/8"	747	467	1.75
815	Portable, Plug-in Type.....	1 1/2	12	10 1/2 x 1 3/8 x 3 1/8"	745	157	1.75
1018	Power House, Plug-in Type.....	1 1/2	6	4 1/8 x 4 1/8 x 7 3/8"	740	149	3.35
1030	"Close Pak", Plug-in Type.....	1 1/2	5	9x4x6"	A1300	151	4.35
1000	1000 Hour Power House "A" Pack.....	3	1	11 1/2 x 8 x 7"	A2600	246	10.95
6	Standard Radio and Ignition.....	1 1/2	25	6x2 1/2"	6	6	.70
6	Marine, Paraffined, Ignition.....	1 1/2	25	6x2 1/2"	6	6	.70
4FH	Little Six Radio and Ignition.....	1 1/2	25	2 5/8 x 2 5/8 x 4 5/8"	—	461	.70
4FH	Little Six Uniplex.....	6	6	8 1/4 x 5 3/4 x 2 3/8"	—	—	3.25
S461	Standard Uniplex.....	6	6	10 5/8 x 7 1/4 x 2 3/4"	1161	611	3.25
S561	Standard Uniplex.....	7 1/2	6	—	1561	651	4.00

BURGESS "C" BATTERIES



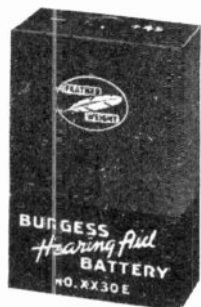
Stock Number	Description	Voltage	Standard Package	Size	Eveready No.	General Dry No.	List Price
237	Plug-in Type.....	4 1/2	20	4 1/2 x 1 1/2 x 3"	—	—	\$0.70
2370	Spring Clips.....	4 1/2	20	4 1/2 x 1 1/2"	761	311	.90
536	Plug-in Type.....	4 1/2	20	2 1/2 x 2 5/8 x 1 3/8"	771	331	.70
5360	Binding Posts.....	4 1/2	1	2 1/8 x 3 x 1 1/8"	781	321	.85
5540	Binding Posts.....	7 1/2	80	4 x 2 3/4 x 3/4"	773	531	1.35
5156	Spring Clips.....	22 1/2	20	4 1/8 x 2 1/2 x 2 3/4"	768	152	2.15

DEALERS--WRITE FOR CONFIDENTIAL NET PRICES

THERE IS NO SUBSTITUTE FOR BURGESS QUALITY

A PROFITABLE NEW FIELD!

FAST SELLING ITEM!



VACUUM TUBE HEARING AIDS "A" Batteries

No.	Terminal	Volts	Dimensions	List price
TE	2-Hole Socket	1½	3⅞" x 1 1⁄16" diam.....	\$.25
1ES	Metal Cap	1½	1 11⁄16" x 3⁄16" diam.....	.15
2ES	Metal Cap	1½	2 1⁄16" x 1 5⁄16" diam.....	.15

"B" Batteries

XX15E	3-Hole Socket	22½	1 7⁄8" x 1 3⁄16" x 3 3⁄16"	\$1.50
XX22E	3-Hole Socket	33	2 3⁄8" x 1 3⁄16" x 3 1⁄16"	1.80
XX30E	3-Hole Socket	45	2 13⁄16" x 1 1⁄16" x 3 13⁄16"	2.10

Batteries for Carbon Hearing Aids

T3R	Univ. Flexible Block.....	4 1/2	1 3/16" x 3 1/4" x 4 1/16"	\$.75
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**F6A60**

1860

No.	DESCRIPTION	SIZE	EVER- EADY	GEN. DRY	List Price
1860	Standard A & B, 1½ V.A. & 90 V.B.	15½ 4 1 7	748C	6014	\$9.95
441	Special A & B, 1½ V.A. & 60 V.B.	9 3 1 1½	x259	41A4FL	7.00
6FA60	Special A & B, 1½ V.A. & 90 V.B.	11 1½ 6 1½	x260A	60A4L	9.95
5860	Special A & B, 1½ V.A. & 90 V.B.	10 3 2 6 3	x330	60B6L	7.25
5861	Special A & B, 6 V.A. & 90 V.B.	11 1½ 2 4 4	x331	—	7.15
4GMA41	Special A & B, 1½ V.A. & 60 V.B.	9 3 1 1½	x332	—	7.00
6FA60	Special A & B, 7½ V.A. & 90 V.B.	9 1 2 4 4	x340	—	7.95

BURGESS SPECIAL BATTERIES

We can supply special types. No. F2BP small 3-Volt "A"

Size: $2\frac{1}{8}$ " x $1\frac{5}{16}$ " x $4\frac{7}{16}$ "

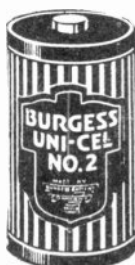
Price on application

**No. Z30NX**

45v. midget "B" taps at
22½ and 45v.
Size: 3" x 17⁄8" x 5"

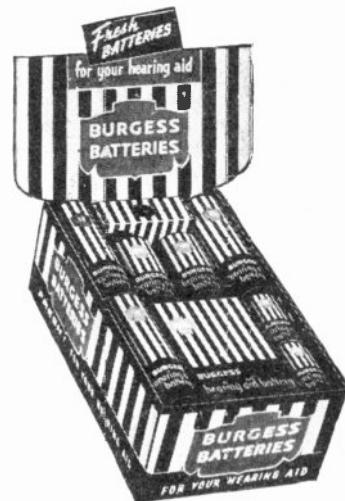
Price on application

FLASHLIGHT AND PENLITE UNI-CEL BATTERIES



No.	DESCRIPTION	St. Pkge.	List Price
1	Small Uni-Cel, 1½	12	.15
2	Standard Uni-Cel, 1½	48	.15
9	Penlite, 1½	20	.10

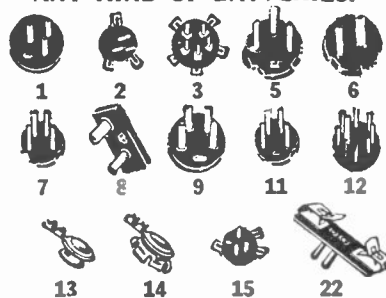
**INCREASE YOUR SALES WITH
HEARING AID BATTERIES
ON DISPLAY**



HEARING AID DISPLAY

List Price..... \$10.70

PORTABLE BATTERY PLUGS FOR ANY KIND OF BATTERIES.



No.	Description	Used With	Your Cost
1	3-prong "B"	45 V. "B" Portables...	.08
2	3-prong "C"	4½ V. "C" Batteries...	.08
3	5-prong "C"	22½ V. "C" Batteries...	.32
5	3-prong "B"	Midget "B" Batteries...	.08
6	2-prong "A"	1½ V. "A" Batteries...	.08
7	4-prong "A&B"	Comb. 1½ V. "A" + 90V. "B" packs...	.10
8	2-prong "A"	6 V. "A" Batteries...	.08
9	4-prong "A&B"	Comb. 6V. "A" 90V. "B" packs...	.10
11	4-prong "A&B"	Comb. 1½ V. "A" and 63V, 75V, or 90V "B" packs...	.10
12	8-prong "A&B"	Comb. 7½ V. "A" and 63V or 90V "B" Portable Packs...	.16
13	Male snap fastener for 67½ neg	"B" Portable...	.08
14	Female snap fastener for 67½ V.	"Positive "B" Portable	.08
15	3-prong "B"	45V "B" fitted with clips	.20
22	2-prong "A"	3V Standard "A" batteries and clips	.16

For all makes of dry batteries; check specifications when ordering.

SPECIAL TYPE BATTERIES FOR INDUSTRIALS SUPPLIED

A BATTERY FOR EVERY PURPOSE



748



A1300



950



182



No. 6



167



386



758



1461



409

A-B BATTERY PACKS

Type No.	Volts	Description	L	W	H	Std. Quan.	Pkg. Wgth.	List Price
758	1 1/2	volt A and 90 volt B	10 1/8	4 1/8	6 1/8	1	15	\$ 9.95
748	1 1/2	volt A and 90 volt B	15 1/8	4 3/8	6 1/8	1	25	9.95
753	9, 7 1/2	volt A and 90 volt B	9 3/4	2 1/8	4 5/16	10	54	7.95

PORTABLE A BATTERIES

744	1 1/2	Large Size	3 7/8	2 1/8	5 3/8	6	18	1.75
742	1 1/2	Medium Size	2 5/8	2 5/8	4	12	17	.90
745	1 1/2	Large Size (Flat)				6	19	1.75
718	6	Large Size	3 7/8	1 7/8	10 1/8	6	19	1.75
716	4 1/2	Rectangular	3 1/8	2 3/4	5 1/2	12	15 1/2	1.25

B - BATTERIES

386	45	Super Layerbilt Battery (Extra Heavy Duty)	8	4 3/8	7 1/4	1	58	4.80
385	45	Super Layerbilt Battery (Standard)	8	3 1/8	7 1/4	6	60	3.60
770	45	Round Cell Heavy Duty	8	4 3/8	7 1/4	6	66	4.30

C - BATTERIES

771	4 1/2	Laps: 3, 4 1/2 volts	2 1/2	1 7/8	2 1/8	10	4	.70
781	1 1/2	Laps: 1 1/2, 3, 4 1/2 volts	2 1/2	7/8	3 1/8	10	4	.85
773	7 1/2	Laps: 1 1/2, 3, 4 1/2, 6, 7 1/2 v.	1 1/8	7/8	3 1/8	5	4	1.35
768	22 1/2	Laps: 3, 4 1/2, 9, 13 1/2, 16 1/2, 22 1/2 volts	4 1/8	2 1/8	3 1/8	10	17	2.15

AIR CELL A BATTERIES

A2600		Drains up to 600 ma. Inc.	9 1/8	6 5/8	11 3/8	1	23	10.95
SA2600		Drains 601 ma. to 750 ma. Inc.	9 1/8	6 5/8	11 3/8	1	23	11.95
A2500		Drains up to 600 ma. Inc.	8 1/4	5 5/8	8 5/8	1	12	7.75

DRY A BATTERIES

A1300		Air Cell Battery	5 5/8	4 3/8	8 5/8	1	7	4.75
740	1 1/2	Dry A Battery Standard	4 5/8	3 7/8	7 1/8	6	39	3.35
730	1 1/2	Dry A Battery Heavy Duty	8 3/8	3 7/8	6 1/8	4	48	4.35

PORTABLE B BATTERIES

182	45	Mini Max Battery	3 3/4	1 7/8	5 1/2	12	24	3.25
155	45	Mini Max Battery	2 5/8	1	3 1/4	12	7	2.75
167	67 1/2	Mini Max Battery	2 1/8	1 3/8	3 3/4	12	10	3.70

FLASHLIGHT AND LANTERNS BATTERIES

915	1 1/2	Penlight Tubular	Dia.	5/16	2	200	8	.10
945	1 1/2	Baby Tubular	Dia.	1 1/8	2	120	12	.15
950	1 1/2	Regular Tubular	Dia.	1 3/8	2 7/16	240	49	.15
703	1 1/2	Large Pocket Size	2 1/8	1 1/8	1 1/8			.75
761	4 1/2	General Purpose	1 1/8	1 1/2	3 9/16			.90
109	6	Railroad Lantern	2 3/8	2 5/8	4 1/8	25	32	.80
701	3	Bicycle Lantern	2 1/8	1 3/8	3 1/4			.75

IGNITOR & HOT SHOT

6	1 1/2	Ignitor Dry Cell	Dia.	2 5/8	6 3/8	25	55	.70
1461	6	Hot Shot	10 3/8	2 3/4	7 1/4	4		3.25
1561	7 1/2	Hot Shot	13	2 3/4	7 1/2	4		4.00

DEALERS — WRITE FOR CONFIDENTIAL NET PRICES

QUALITY PRODUCTS

EVEREADY

FLASHLIGHT CASES



210

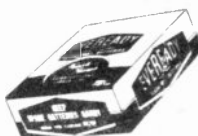


2251

No. 2251—Automatic spotlight, prefocused, smartly styled in black and chromium.
Without batteries. \$1.95 each

No. 210—Penlight, finished in chromium, with sliding pocket clip switch.
Without batteries.99 each

The Business that counts is the business you can count on! Are you making Eveready Batteries pay? Are you selling at least two boxes a day?

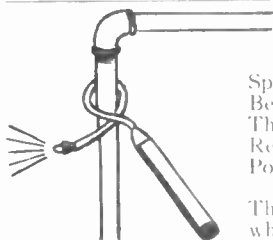


Eveready flashlight batteries are one of the fastest selling items—sell over and over again.

Box of 950 batteries with Free display carton
Your Cost \$4.68

COMPARATIVE BATTERY CHART

Description	"Eveready" Battery No.	Burgess Battery No.	General Battery No.	Philco Battery No.	Ray O Vac Battery No.
A 1½ volt Portable.	742	4FP	144	851	194 V
Home.	741	8FP1	143	853	198 V
	745	815	157	856	198 L
	740	1018	119	854	19181
2 volt Home	A 1300	1030	151	855	19301
	A 2300	1040	128		19403
	A-2600	1000	246		19003
	S V 2600	1000	246		19003
4½ volt Portable.	746	G3	3113	850	1834
6 volt Portable	718	810	468		1698A
B45 volt Portable	455	XX 30	A 30AA		
Home.	482	1733	E 30 V	861	17830
	385	2308	3011	865	12303
	386	21308	3081	867	18303
	770	10308	3061	866	19303
67½ volt Portable.	467	1731	W 45A		1367
C 4½ volt Home.	771	546, 237	331	875	1231V
	781	5360	321	874	531R
7½ volt Home	773	5540	531	876	551
22½ volt Home	768	5156	152	872	15151
General Purpose					
4½ volt	761	2370	311		
6 volt	409	E 411	463		911
A 1½ v B 90 v Home.	758	1860	6011	887	AB821
A 1½ v B 90 v Home.	718	1860	6014	887	AB821
A 1½ v B 90 v Home.	X340	S860	6016L	886	
A 1½ v B 90 v Portable	X260	660	60 V 11	883	
A 1½ v B 90 v Portable	X259	141	11 V 11	882	
A 1½ v B 90 v Portable	X342	S862	11 V 10	881	
A 6 v B 90 v Portable	X341	S861	60 V 14	885	
A 9, 7½ v B 90 v Portable	X340	S864	60 V 16.5	884	
1½ volts.	No. 6 Ignitor	No. 6 4FH	No. 6 Unity		No. 6 Ignitor
1½ volts.	No. 6 Columbia	No. 6 Telephone	No. 6 Stora		No. 6 Telephone
1½ volts.	Label Telephone		King Duo Power		
6 volts.	No. 1461 Hot Shot Battery	No. S 461			
1½ volts.	6	6 - 4FH	6		6
1½ volts.	6 Telephone	6 Telephone	6		6 Telephone
6 volts.	1461	S 461 4FH	611		611
7½ volts.	1561	7 561	651		651B
7½ volts.	1562	S 562	652		7R
AA Size.	915	9	21		1
C	935	2	C		21 P
D	950	532	113B		131
B 3 flat.	703	E 411	463		911
F 4 lantern	409				



Standard Junior

Durable but yet light in weight—ribbed aluminum polished case. Overall length including flexible metallic cable is 16½".

Junior Deluxe size is equipped with a handy slide switch and a pocket clip. Uses two penlite cells as Junior.

MODEL

130 Junior.	\$2.00
131 Junior Deluxe.	2.65
132 Standard.	4.00

LIST PRICE

"FLEX SPOT"—"FLASH-LITE" NEW—DIFFERENT—FLEXIBLE

Spot Light Where You Want It. — Powerful and Shadowless
Bend at any Angle — It Stays Put
The Light That Goes Around Corners
Reaches all Hard To Get At Places
Pocket or Kit Trouble Light.

The STANDARD size uses two regular size flashlight cells which gives long battery life.

BATTERY PLUG KIT



A Necessity for every radio serviceman. Contains 50 fast moving battery plugs in handy cardboard container. For portable and home radios, test equipments etc.

BP-50—Your Cost \$4.39

100 Battery plugs in sturdy metal container
BP 100 MC—Your Cost \$9.90

**ASK FOR A SUPPLY OF
OUR RUSH ORDER BLANKS**

COMPLETE STOCK OF EVEREADY BATTERIES ALWAYS ON HAND

BATTERY EQUIPMENT

for **HOME & CAR**



NEW ERA Super Power Storage Batteries

• POWER • DEPENDABILITY

Specially built to meet the requirements of the high-speed motor. The patent feature built into NEW ERA plates, equalizes the flow of current through the plate area, preventing buckling. This means longer battery life. All batteries are specially crated for shipment.

ALL BATTERIES GUARANTEED

Type	Description	Plates	Volts	Container Dimension (Inches)			List Price	Your Cost
				Length	Width	Height		
GP-1	Glas-Pak	17	6	9	7 1/4	8	\$26.45	\$18.50
3S	Super Power	17	6	9	7 1/4	8	22.45	16.15
SF	Super Power	15	6	9	7 1/4	8	19.95	14.55
GP-2	Glas-Pak	17	6	10 1/4	7 1/4	8	30.00	21.30
2S	Super Power	17	6	10 1/4	7 1/4	8	24.95	17.95
GP-L	Glas-Pak	19	6	10 1/4	7 1/2	8	26.45	18.50
FV8	Super Power	19	6	10 1/4	7 1/2	8	22.75	16.38
FV8	Meteor	17	6	10 1/4	7 1/2	8	19.95	14.55
GP-F	Glas-Pak	17	6	10 1/2	7 1/4	8 1/2	29.25	20.80
M8S	Meteor	17	6	10 1/2	7 1/4	8 1/2	24.25	17.70
GP-2E	Glas-Pak	17	6	19 1/4	4	8 1/2	30.00	21.30
SB	Meteor	17	6	19 1/4	4	8 1/2	24.45	17.85
GP-3	Glas-Pak	19	6	11 3/4	7 1/4	8 1/4	36.00	25.20
SN	Super Power	19	6	11 3/4	7 1/4	8 1/4	29.95	21.85
GP-4	Glas-Pak	21	6	13	7 1/4	8 1/4	41.95	29.40
ST	Super Power	21	6	13	7 1/4	8 1/4	38.45	27.70



New era — glass jar lighting and power batteries for home and farm lighting, motor boats, yachts, fishing vessels and general purposes.

Type	Capacity in amp. hrs. Intermittent	Capacity in 8 hrs.	Glass jar dimensions in Inches			Warranty	Your Cost	
			L	W	H		6 volt 3 cell	32 volt 16 cell
DH 7	90	60	3 3/8	7 1/4	10 1/2	60 months	\$ 33.71	\$172.27
DH 9	120	80	4 3/4	7 1/8	11 1/2	60 months	39.00	200.63
DH 11	150	100	5 3/8	7 1/2	11 1/2	60 months	45.21	233.26
DH 13	180	120	6 5/8	7 3/4	10 1/2	60 months	50.99	267.50
DH 15	210	140	6 5/8	7 3/4	10 1/2	60 months	55.96	294.25
KF 7	130	90	3 3/8	7 1/4	13 1/4	60 months	40.13	206.51
KF 9	175	120	4 3/4	13 1/8	13 1/8	60 months	46.97	242.89
KF 11	220	150	5 3/8	7 1/2	13 1/8	60 months	56.60	295.32
KF 13	260	180	6 5/8	7 3/4	13	80 months	65.27	342.40
KF 15	300	210	6 5/8	7 3/4	13	80 months	73.30	385.20
KF 17	350	240	8 5/8	7 5/8	13	80 months	88.33	465.45
KF 19	400	270	8 5/8	7 5/8	13	80 months	96.30	508.25
KF 21	440	300	9 1/4	8 3/8	14	80 months	104.33	551.05

Crates for safe shipment \$0.50 extra.

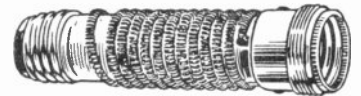


INCREASE YOUR PROFITS! WITH GENERAL ELECTRIC TUNGAR BATTERY CHARGER

When you install a G-E Tungar Battery Charger, you will be able to offer your customers an added service. This service will bring you considerable incidental business, now going to your competitor, as well as real business from battery charging—business that is almost all profit.

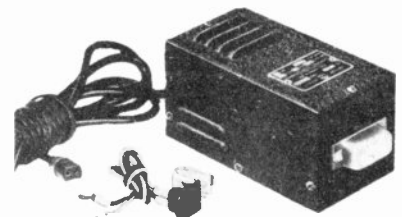
CAT. NO.	Your Cost	Description	Cycle	AC Volts	DC Amp Range	CAT. No. of Bulb
33BX1	\$ 64.50	6 Battery Half Wave	60	115	Up to 6	189048
33BX2	70.95	12 Battery Half Wave	60	115	Up to 6	189049
33BX3	75.95	6 Battery Half Wave	25	115	Up to 6	189048
33BX4	79.95	12 Battery Half Wave	25	115	Up to 6	189049
6RB6B1	156.00	6-12 Charger Full Wave	60	125		189048
6RB6B3	181.00	12-24 Charger Full Wave	25	125		189048
6RB6B5	181.00	12-24 Charger Full Wave	60	115		189049
6RB7B2	245.00	12-24 Charger Full Wave	25	115		189049
6RB26A1	25.95	Home Charger Less Bulb	60	115	Up to 5	20X672
3126530	47.50	Home Charger Less Bulb	60	115	Up to 6	189048
3126532	51.95	Home Charger Less Blub	25	115	Up to 6	189049
6RS916A1	20.95	One day Charger	60	115	7/4	
6RS916A2	30.95	Overnight Charger	60	115	12/7	
6RC127A1	38.50	Trickle Charger	60	115	0.1 to 0.75	
6RC124F5	312.00	Fast Charger	60	115	Up to 80	

KING COLE CHARGING RESISTOR



Resistance unit for charging any 6 volt radio or auto storage battery from 32 volt lighting systems. Maintains uniform charging rate and does not injure batteries. Saves time and expense of hauling batteries to town.
No. 250 Your Cost..... \$2.55

CTC BATTERY BOOSTER



WILL RECHARGE YOUR BATTERY IN YOUR CAR OVERNIGHT.

Charges at 4 to 2 amps depending on condition of battery.

Complete with A.C. & D.C. CORDS and plugs, dash receptacle, fuse, etc.

1. Costs Only a Fraction of a Cent to Operate.
2. No Danger of Overcharging.
3. No Tubes... Rugged Construction.
4. No Liquids to Spill or Replace.
5. No Radio Interference.
6. No Moving Parts... Noiseless.

No. 101C—25 cycle—Your Cost..... \$9.35

No. 102C—60 cycle—Your Cost..... 8.95

HYDROMETER COMPLETE WITH FLOAT



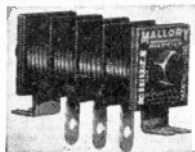
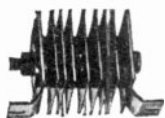
Your Cost..... \$0.65
Float only..... .35

MONTREAL ★PL. 3421



TORONTO ★MI. 2481

WE SELL EVERYTHING IN RADIO



MALLORY MAGNESIUM-COPPER SULFIDE RECTIFIER

Low voltage, direct current from a watt to kilowatts is easy and economical to obtain with these magnesium-copper sulphide rectifiers. For battery charging, electroplating, energizing magnetic chucks. Write for more complete information on its uses, catalogue available without charge.

New Catalog Number	Maximum AC Volts (Normal Line)		Approx. DC Volts			Max. DC† Amperes		Approximate Overall Dimensions in Inches			Replacement for Old Catalog Number	Replacement in Equipment	Your Cost
	No Load	Full Load	Inductive Load	Resistive Load	Capacitive-Battery Load	Continuous Duty	Intermittent Duty	Length	Width	Height			

ULTRA-COMPACT REPLACEMENT RECTIFIERS FOR BATTERY ELIMINATORS, ETC.

1B4R	3.6	3.2	1.5	1.7	2.5	1.5	5.0	1	9 1/16	7/8		G. I. C. Porta-Power Electro Battery Eliminator	\$1.98
1B8R	7.2	6.4	3.1	3.4	5.1	1.5	5.0	1 3/8	9 1/16	7/8		G. I. C. Porta-Power Electro Battery Eliminator	2.34
1B12R	10.8	9.7	4.8	5.2	7.8	1.3	5.0	1 1/4	9 1/16	7/8		All Power Supplies for Electric Fence	2.83

REPLACEMENT RECTIFIERS FOR AUTOMOTIVE CHARGERS AND ELIMINATORS, ETC.

1B12C1J	10.8	9.8	4.6	5.1	7.7	3.2	24	2 3/4	1 1/4	1 3/8	12C1, F12C1, F12C1B, 12C1F, F12C1K, 1B12C1, 1B12C1M, X12, X112, U12	4.2 Amp. Boosters Mallory 3C, 6AC4	\$5.17
F16C3	14.4	13.0	6.1	6.8	10.2	3.9	24	3	1 3/4	2 1/8	16C3, F16C3B, 16C3B, 16C3B*, XB16*, M16*, X16, X116, ME16	5.3 Amp. Old Chargers Mallory 5535	6.48
IF16CB7M	14.4	13.0	6.0	6.7	10.1	6.3	24	3	2 1/2	3 1/8		6.3 Amp. Charger, Mallory 5535A	7.78
IS16CB7	14.4	13.0	6.0	6.7	10.1	6.3	24	3 3/4	2 1/2	3	IS16CB7M	6.3 Amp. Charger, Mallory 5535B, 6AC6	7.56
IS16B7	13.4	12.8	5.8	6.5	9.8	8.3	24	5 1/2	2 1/2	3	IS16B7M	10.7 Amp. Charger, Mallory 107	9.14
IS16B9	14.4	12.7	5.7	6.4	9.7	11.6	24	5 1/2	3 1/2	4 1/4		10.7 Amp. Charger, Mallory 6AC10	10.89
F20C7	18.0	16.2	7.0	8.4	12.6	4.8	24	4 3/8	2 1/2	3 1/8	F20C7P	A.T.R. Battery Eliminators, etc.	8.91
F24C7	21.6	19.4	9.3	10.3	15.5	3.2	24	3 3/4	1 3/4	2 1/8	F24C3, F24C3P, F24C7P, FCX24D7, 201C1, R24LR, R24LS	Stancor Eliminators, Univerters, Pin Game Supplies, etc.	9.41
IS24B9	21.6	19.1	8.5	9.6	14.4	11.0	24	7 1/2	3 1/2	4 1/4		Stancor Battery Eliminators, etc.	15.21
IS28C7J	25.2	22.7	10.7	11.7	17.8	4.3	24	6	2 1/2	3	F28C7, F28C7P, 228C1, 267C1, R28LS	5-4 Amp. 12-volt Chargers Mallory 125, 12AC5	11.30

REPLACEMENT RECTIFIERS FOR PIN BALL MACHINES, POWER SUPPLIES, ETC.

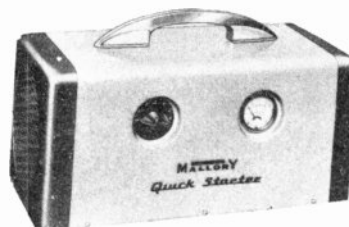
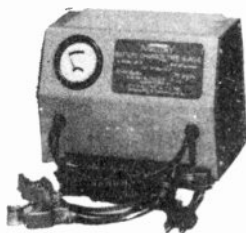
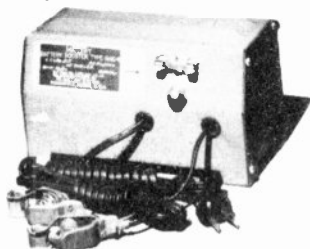
F16H1P	14.4	13.1	6.3	7.0	10.4	2.2	24	2 1/4	1 1/4	2	16A1, F16G1, F16G1P, F16H1, W16A1, 211C1, R16S	Electropak, Rectopak, Univert, etc.	\$4.37
F20H1P	18.0	16.4	7.9	8.7	13.0	2.0	24	2 3/4	1 1/4	2	20A1, F20G1, F20G1P, F20H1, W20A1, 212C1, R20S, X20	Electropak, Rectopak, Univert, etc.	5.81
F24H1P	21.6	19.7	9.6	10.4	15.7	1.9	24	3	1 1/4	2	F24C1, F24G1P, F24H1, W24A1, 203C1, R24S	Electropak, Rectopak, Univert, etc.	7.02
F28H1PM	25.2	23.0	11.2	12.2	18.4	1.7	24	3 1/4	1 1/4	2	F28C1, F28G1P, F28H1, F28H1P, W28A1, F28H1MP, 210C1, R28S	Electropak, Rectopak, Univert, etc.	7.56
F32H1PM	28.8	26.2	12.8	14.0	21.0	1.6	24	3 3/4	1 1/4	2	F32G1, F32G1P, F32H1, F32H1P	Electropak, Rectopak Univert, etc.	8.37

NOTE: All rectifiers are single phase, full wave, bridge type. **MOUNTING PREFIX:** IB = Insulated Bolt; B = Grounded Bolt; F = Grounded Foot; IF = Insulated Foot; IS = Insulated Stud.
P suffix designates reverse polarity stacking. Center terminal is DC positive. **J** suffix designates universal construction with loose mounting feet for foot, bolt or stud mounting replacement.
 †To determine AC Amps: Multiply the DC amps by the following factors: Inductive load by 1.1; resistive load by 1.2; capacitive load by 1.4.
 *Use base from old rectifier.

MALLORY BATTERY CHARGERS

Mallory Improvements are:

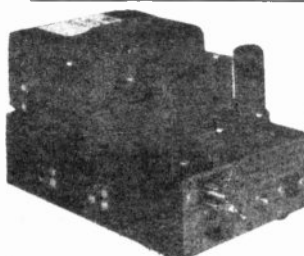
1. Exclusive sulfiding process.
2. Inert non-polarizing backing discs.
3. High-pressure, cell pre-forming.
4. Constant output.
5. Temperature-resisting.



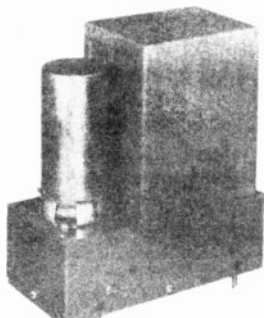
Mallory Charger Catalog Number	Nominal Battery DC Volts	Maximum Charging Rate DC Amps.	Tapered Rate DC Amps.	Charging Indicator	Approx. Overall Dimensions in Inches			Length in Feet of		Approx. Shipping Weight in Pounds	Your Cost
					Height	Width	Depth	AC Cord	DC Cord		
6AC4†	6	4	2	No	4 1/16	7 3/8	3 5/8	6	6	4 3/4	\$ 12.40
6AC6†	6	6	4	Yes	6	8	4 1/4	6	6	7	16.83
6AC10†	6	10	7	Yes	6 3/4	10 3/8	5 1/2	6	6	12 1/4	23.07
12AC5†	12	5	3	Yes	6 3/4	10 3/8	5 1/2	6	6	10 3/4	30.17
6AC60*	6	60	40	Yes	10 3/4	18	9 3/4	15	9	47	106.00

FREE! COMPLETE MALLORY CATALOGUE — SEND FOR YOUR COPY TO-DAY!

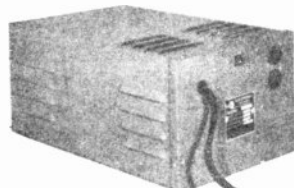
E-L VIBRATOR INVERTERS AND FREQUENCY CONVERTERS



E-L Model 619



E-L Model 605



E-L Model 146

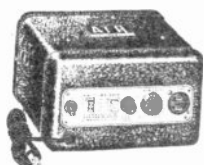
Mod. No.	Input Volts DC	Output Volts AC	Output Watts	Load Pf(%)	Dimensions (In.)	Wt. (Lbs.)	Principal Applications	Your Cost
6R10	6	110	15 to 100	80-100	12 1/4 x 6 1/4 x 6 1/2	19	General application	\$ 66.95
12RU15	12	110	15 to 150	80-100	12 1/4 x 6 1/4 x 7 1/2	22	General application	71.50
507	12	110	150	80-100	10 3/4 x 7 1/2 x 8 1/4	25	Radio receivers, transmitters	32.50
2115	32	110	100 max	80-100	9 1/2 x 7 1/2 x 6 1/2	48	Dual outlet appliances and radio.	49.10
146	32	110	350	80-100	16 x 10 x 8 3/8	21	Receivers, transmitters and coin phonographs.	123.50
32RU15	32	110	15 to 150	80-100	12 1/4 x 6 1/4 x 7 1/2	45	Radio receivers, transmitters	67.50
32RU25	32	110	25 to 250	80-100	18 x 8 x 9	2	Radio receivers & general	P.O.A.
110P5	110	110	30	50-80	5 1/2 x 5 x 2 1/4	15	Phonograph motors	10.50
110R15	110	110	15 to 150	80-100	12 1/2 x 6 1/4 x 7 1/2	55	Receivers, transmitters	62.40
110R30	110	110	30 to 300	80-100	18 x 8 x 9	2	General purpose	139.75
267	110	110	5	80-100	9 3/8 x 2 3/8 x 2 1/4	6 1/4	Flea Motors	14.50
261	110	110	75	80-100	7 1/8 x 4 1/4 x 5 1/4	12 1/2	Radio receivers, appliances	24.35
204	110	110	150	80-100	9 3/8 x 6 3/8 x 4 3/8	23 1/4	Receivers, transmitters and appliances	31.50
424	220	110	150	80-100	9 3/8 x 6 3/8 x 4 3/8		Receivers, transmitters and appliances	37.50

Mod. No.	Input Volts DC	Output Volts DC	Output Watts	Load Pf(%)	Dimensions (In.)	Wt. (Lbs.)	Principal Applications	Your Cost
605A	6	150-275	19		5 1/2 x 3 1/4 x 6	5 1/2	Power pack, tapped output	\$17.55
601	6	225-300	30		4 3/4 x 4 x 6	6	Power pack, tapped output	23.40
604A	6	225-300	30		5 1/2 x 3 1/4 x 6	5 1/2	Power pack, tapped output	20.80
619	6 & 115AC	300	60		9 3/4 x 5 3/4 x 6	14 1/2	Transmitters	47.25
616	6 & 115AC	100 & 115AC	100		7 1/2 x 7 x 6 3/4	16	Power pack, tapped output 115V A.C. for phono motors	40.95
2606	6	300	30		4 3/4 x 5 1/2 x 5	6 1/2	Receivers, transmitters, sound equipment	20.15
110B4	110AC	6	7 Amps		12 1/4 x 6 1/4 x 7 1/2	16	Filtering to eliminate hum	40.65
902	110AC	6	10 Amps		9 x 8 3/8 x 5 1/2	19	Filtering to eliminate hum	70.20
110B8	110AC	6 or 12	14 or 7 Amps		12 1/4 x 6 1/4 x 7 1/2	26	Filtering to eliminate hum	65.00

FREQUENCY CONVERTERS

Mod. No.	Input Volts AC	Output Volts AC	Output Watts	Load Pf(%)	Dimensions	Wt. (Lbs.)	Principal Applications	Your Cost
801	110 - 25 cy	110 - 60 cy	100	80-100	16 7/8 x 9 3/4 x 8 1/4	40	Frequency Changers	\$78.00
802	110 - 50 cy	110 - 60 cy	100	80-100	16 7/8 x 9 3/4 x 8 1/4	38	Frequency Changers	58.50

ATR STANDARD & HEAVY DUTY RADIO INVERTERS



Specially designed for operating AC Radios, R.A. systems, Television sets, amplifiers, test equipment from DC voltages in vehicles, ships, trains and DC districts.

Type	Input D.C. Volts	A.C. Output 60 Cycles (volts)	Output Wattage Inter-mittent	Continuous	Your Cost
6 RSC	6	110	85	75	\$35.20
12 RSC	12	110	125	100	44.00
32 RSC†	32	110	150	100	36.40
32B R11C†	32	110	200	180	55.60
110 RSC†	110	110	250	150	36.40
110A R11C†	110	110	325	225	52.00
110B R11C†	110	110	500	350	60.00
110C RSC	110	110			
220A RSC	220	220	250	150	45.60
	220	220	250	150	45.60

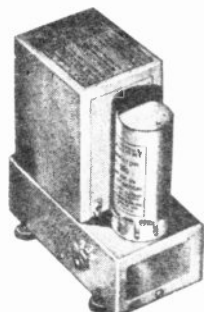
ATR LOW POWER INVERTERS

For operating small AC motors, Electric Razors, radios and devices of approximately 35 watts.

Type	Input D.C. Volts	A.C. Output 60 Cycles (volts)	Output Wattage Inter-mittent	Continuous	Your Cost
6 L1D	6	110	40	35	\$23.60
12 L1D	12	110	50	35	23.60
24 L1D	24	110	50	35	26.00
32 L1D	32	110	50	35	26.00
110 L1D	110	110	75	50	23.60
220 L1D	110	110	75	50	26.00



MALLORY VIBROPACK



Flexible Heavy-Duty vibrator power supplies to provide dependable and low cost high voltage direct current from a low voltage storage battery. High efficiency, low battery drain; Dependable, trouble free, time tested in thousands of installations. Low cost and maintenance; Compact and light in weight. Easy to install.

Widely used for furnishing "B" power in Automobile Receivers, Farm Receivers, Police mobile two-way equipment, Automobile P.A. systems, Aircraft and Marine receivers and transmitters and many miscellaneous electronic applications where commercial power is unavailable.

Catalog Number	Nominal Operating Voltage	Nominal Output Voltage	Maximum Output Current	Type	Your Cost
VP-540*	6.3	250	60 ma.	Self-Rectifying	\$24.00
VP-551	6.3	125-150/175-200	100 ma.	Self-Rectifying	17.55
VP-552	6.3	225-250/275-300	100 ma.	Self-Rectifying	21.00
VP-553	6.3	125-150/175-200	100 ma.	Tube Rectifier	19.65
VP-554	6.3	225-250/275-300	100 ma.	Tube Rectifier	22.95
VP-555	6.3	300	200 ma.	Tube Rectifier	41.55
VP-557	6.3	400	150 ma.	Tube Rectifier	41.55
VP-G556	2.6	225-250/257-300	100 ma.	Self-Rectifying	22.95
VP-F558	32.	225-250/275-300	100 ma.	Tube-Rectifying	24.90

*Includes complete audio filter.

All units have built in noise suppression equipment. Type VP-555 includes low frequency hum filter. Type VP-557 incorporates first input filter.

VP-223 complete audio filter system for use with all single unit Vibropacks.

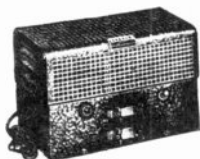
Perfect Power Supply for

★ Auto
★ Aviation
★ Marine
★ Portable radios, etc.

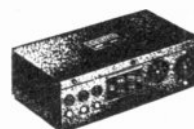
Ideal for farm, summer cottage, camp, automobile, motor boats, etc.

- ★ Guaranteed electrically.
- ★ Selenium Rectifiers. (No tube).
- ★ Radio plays immediately (no warm up period required).
- ★ Hum-Free operation.

(Specify electro or G.T.C. when ordering).



Model "A" Electro



Model "F" Electro

Model "A" Electro Power supply will operate all the latest types of auto radios with solenoid tuning and tone controls, also 12 volt marine and aircraft radios. Two insulated D.C. sources of 6 volt 15 amps while in series 12 volts at 7½ amps.

MODEL	INPUT VOLT	OUTPUT VOLT	SPECIFICATIONS	YOUR COST
"A" Electro	105-115-125 Volts 60 cycle A.C. Tap Prim.	6V. 15A continuous 6V. 20A Max Inter. 6V. 7½A Two Sections. (Completely Filtered) 12V. 7½A continuous	6 ft. rubber cord and plug. rectifiers large cap. Bridge type (Heavy Duty) Size 7¾" x 7¾" x 11¼"	\$53.63

Model "Q" Electro is to be used where 115V. A.C. lines are not available. Will operate any 1.4V Battery Radio from 6 volt D.C. source during 3 weeks at 3 hours a day on a single storage battery (100 A.H.) charge. For use at the farm, summer cottage, camp, in motor boat.

MODEL	INPUT VOLT	"A" SUPPLY	"B" SUPPLY	SPECIFICATIONS	YOUR COST
"Q" Electro	6V D.C. (a 0.8 amp. For 4 tube) Radio	5-6 tube 1.4V at 320 MA 4 tube 1.4V at 250MA 4 tube 1.4V at 200MA	90V at 12 MA (Max)	Cord and battery clips on primary On Off Switch Size 5" x 5" x 2¾"	\$12.84



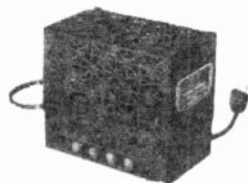
Model "Q" Electro

Model "F" Electro for use in receivers employing 1A4, 1C7, 1D5, 1E5, 1F5, 1F7, 1H4G etc. Will operate 4 to 7 tube battery radio from 115 volt 60 cycle source.

MODEL	INPUT VOLT	"A" SUPPLY	"B" SUPPLY	SPECIFICATIONS	YOUR COST
"F" Electro	115 volt A.C. 60 cy.	7 tube 2V. 480MA 6 " 2V. 420MA 4-5 " 2V. 325MA	67 90, 112, 135 volt at 18 MA.	6 ft. rubber cord and plug. Switch in cord. Size 2¾" x 4½" x 8¼"	\$14.79

Model "R" Electro is nearly the same as model "Q" above. Will operate any 2 volt battery radio from 6 volt D.C. source.

MODEL	INPUT VOLT	"A" SUPPLY	"B" SUPPLY	SPECIFICATIONS	YOUR COST
"R" Electro	6 Volt D.C. (a 1.2 M.A. for 4 tube Radio	7 tube 2V. at 480 MA 6 " 2V. at 420 MA 4-5 " 2V. at 325 MA	67 90, 112, 135 volt @ 18 M.A. (Max)	Cord and battery clips on primary On Off Switch Size 5½" x 5" x 2¾"	\$14.79

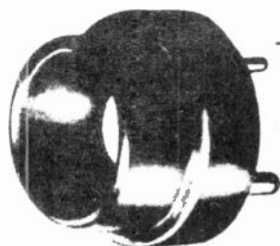


Model "B" G.T.C.

MODEL	INPUT VOLT	"A" SUPPLY	"B" SUPPLY	SPECIFICATION	YOUR COST
"B" Electro	115V 60 cycle	1.4v at 275 MA 1.4v at 250 MA 1.4v at 200 MA	90 volt DC at 12 MA max Primary 115 volt AC at 60 cycles.	6 foot cord and plug switch in cord. size 2¾" x 3½" x 6¾"	\$11.70

Model "B" G.T.C. Perma Power operates 98% of all 6 volt battery radios, from 105-125 volts, 50-60 cycles.

MODEL	INPUT VOLT	OUTPUT	SPECIFICATION	YOUR COST
"B" G.T.C.	105-125 volt 60 cycle	2 sources of 6V at 1½ amps of connected in parallel at 3 amps	Screw type terminals size 3¾" x 6¼" x 5½"	\$18.00



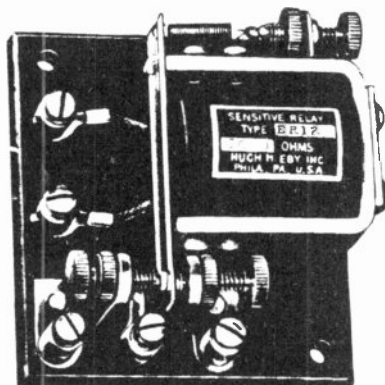
EBY ELEC- TRIC EYE E-12

Electric Eye is of the photo conductive type. Sensitive to visible and invisible light. Reacts to intensity and frequency of incident light rays.

Hermetically sealed in Bakelite case. Operates on voltages as high as 250 volts. Responds to frequencies as high as 9,000 cycles per second. Plugs into standard four-prong socket. Size 1.35" x 1.25".

No. E-12—Your Cost **\$3.60**

EBY SENSITIVE RELAY



ER-12

Positive action with low power requirements and high speed response. Designed for direct current and full or half wave rectified current for low power control circuits. Relay rated at 11.25 milliwatts. May be adjusted to operate on as little as 1.25 milliwatts, mounted on molded Bakelite single-pole, double-throw switch with sterling silver contacts. Rated to carry 2.5 amperes at 115 Volts AC and 1.5 amperes at 115 volts DC.

Your Cost

ER-12,	1,000 ohms.....	\$6.60
	2,500 ohms.....	6.75
	5,000 ohms.....	6.90
	10,000 ohms.....	7.95

WE SELL EVERYTHING IN RADIO

FUSES and HANDY ACCESSORIES



8AG TEST INSTRUMENT *high speed* LITTELFUSES

Designed especially for the protection of delicate test equipment, galvanometers, microammeters, milliammeters, voltmeters, etc. Glass enclosed; 1" x 1/4" dia. accurately rated, high speed action, short time lag. Voltage rating up to 250 volts AC or DC. For higher voltages use fuses in series.

No. 8 AG	Amperes Current Rating	Max. Load M.A.	Aver. Resist. 5 M.A. Load	APPLICATIONS				Your Cost
				Volt- Meters Ohms P.V.	MILLIAMMETERS			
					Types	Thermo- Couples		
1000	1/200	5	500	over 1000	Galvanometer	Up to 0- 5	\$0.35	
1001	1/100	10	110	1000	Up to 0- 1	0- 5 to 0- 10	.25	
1002	1/32	25	20	500-1000	0- 1 to 0- 10	0- 10 to 0- 25	.25	
1003	1/16	60	5.0	100-500	0- 10 to 0- 25	0- 25 to 0- 60	.20	
1004	1/8	100	3.0	20-100	0- 25 to 0- 75	0- 75 to 0- 115	.15	
1005	1/4	200	6.2	10-20	0- 75 to 0- 150	0- 115 to 0- 200	.15	
1007	1/2	400	2.5	3-5	0- 250 to 0- 350	0- 300 to 0- 400	.15	
1007A	3/4	600	.40	....	0- 350 to 0- 500	0- 400 to 0- 600	.15
1008	1	1000	.24	....	0- 500 to 0- 750	0- 600 to 0-1000	.10
1008A	1 1/2	1500	.18	....	0- 750 to 0-1000	0-1000 to 0-1500	.10
1009	2	2000	.14	....	0-1000 to 0-1500	0-1500 to 0-2000	.10
Special	3 to 15	Instrument Littelfuses up to 15 amps. furnished on request.						.25

Instrument Littelfuses up to 15 amps. furnished on request.

FUSE ACCESSORIES



No. 1050—Panel Fuseholder for No. 8AG 1 1/4" x 1/4" fuses. . . . **\$0.28**



No. 1010—Surface Fuseholder for No. 8AG 1 1/4" x 1/4" fuses. . . . **.20**



No. 1056—Panel Fuseholder for No. 3AG 1 1/4" x 1/4" fuses. . . . **.25**

No. 1060—Surface Fuseholder for No. 3AG 1 1/4" x 1/4" fuses. . . . **.20**

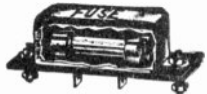
No. 1011—Fuse clip for 1/4" diameter fuses. Heat resistant. . . . **.03**



No. 1087—8AG Fuse extractor post for 1 1/4" x 1/4" fuses. Entirely shockproof. . . . **.50**



No. 1075S—3AG Fuse extractor. Quicker, safer method of mounting and changing fuses. . . . **.50**



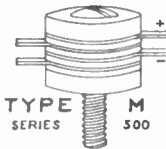
No. 1126—Metal shielded fuse mounting for 1 1/4" x 1/4" fuses. Cadmium plated cover, bakelite base. . . . **.60**

CONANT INSTRUMENT RECTIFIERS



TYPE B
SERIES 160

Conant rectifiers are laboratory products, designed especially for instrument applications, and provide high sensitivity and stable performance of the instrument in which they are installed. All the rectifiers are guaranteed to be free from defects in materials or workmanship. Series 160 are used where maximum current is less than 1 milli-ampere. Series 500 should be used if more than 1 milli-ampere is required.



TYPE M
SERIES 500

Type	Series	Terminals	Peak Electrical Ratings						Your Cost
			Instantaneous		Intermittent		Continuous		
			Volts	Mils	Volts	Mils	Volts	Mils	
M	500	4	30	100	20	60	10	30	\$2.80
HS	500	3	15	100	10	60	5	30	2.16
T	500	3	30	100	20	60	10	30	2.16
II	500	2	15	100	10	60	5	30	1.20
B	160	4	30	15	20	10	10	5	2.80
BHS	160	3	15	15	10	10	5	5	2.16
BT	160	3	30	15	20	10	10	5	2.16
BH	160	2	15	15	10	10	5	5	1.20

RADIO AND AUTO FUSES No. 3AG



Designed as a special protection for radio sets. Used in the power supply line. Tested and approved. 1/4" x 1 1/4" long.

Rating amps	Volts	Max. Load, M.A.	Your Cost Each	Cost Box of 5	Lots of 100
1/2	250	150 mils.	\$0.15	\$0.65	\$12.14
1	250	300 mils.	.15	.65	12.14
1 1/2	250	60 watts	.07	.30	5.77
2	250	80 watts	.07	.30	5.77
3	250	150 watts	.07	.30	5.77
5	250	200 watts	.07	.30	5.77
10	25	200 watts	.05	.25	4.12
15	25	200 watts	.05	.20	2.59
20	25	200 watts	.05	.20	2.59

SPECIAL TYPE FUSES

No.	Amps.	Size	Your Cost Each	Lots of 100
1308	9	7/8" x 1 1/4"	\$0.05	\$3.67
1309	14	1 1/8" x 1 1/4"	.05	3.67
1083	20	1 1/8" x 1 1/4"	.05	2.59
1310	30	1 1/8" x 1 1/4"	.07	4.90

NE-O-LITE TESTER



For testing AC lines; polarity of AC or DC; testing for blown fuses; tracing ground line in AC; as a R.F. indicator; spark plug tester and 101 other uses. Can be used on 60 v. AC to 500v. AC or DC.

	List Price	Your Cost
5100	\$ 0.67	\$0.40
5100-D—Display 20 Ne-O-Lites..	13.34	8.00

LO-VOLT CIRCUIT TESTER

For 0-15 Volts

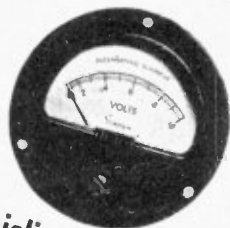
Low voltage tester for testing 0 to 15 volts either AC or DC. Tests storage batteries, head-light wiring, generator output, etc. Also useful for testing Bell circuits and control circuits operating at less than 15 volts. Supplied with screw-type bulb for easy replacement.



No.	Your Cost
5125 —Lo-Volt Circuit Tester. . . .	\$ 1.00
5125-D—Display 12 Lo-Volt Tester. . .	12.00

ASK FOR WHAT YOU DO NOT SEE IN OUR CATALOGUE

ONLY THE BEST IN TEST EQUIPMENT



We specialize in meter repairs

You will have more confidence in your instruments if they have been repaired by our highly-skilled technicians. We are fully equipped to service, All Electrical Measuring Instruments, Amplifiers, Microphones, Loudspeakers.

- *EXPERT CRAFTSMEN
- *EXACTING WORK
- *SPEEDY SERVICE
- *MODERATE CHARGES



We suggest easy payments

SEE PAGE — 207

There is no need to buy inferior equipment for lack of ready cash. On our easy time payment plan you pay while you earn — 25% down payment, 6 months in which to pay the balance. Low Finance charge.



CANADIAN ELECTRICAL

EXPERTS WILL HELP YOU SELECT FROM ITS COMPLETE LINE OF NATIONALLY FAMOUS INSTRUMENTS



RADIO CITY PRODUCTS



C.E.S. FEATURES THE LATEST IN TEST EQUIPMENT

FIRST TIME IN HISTORY MODEL 8073 Combines: Tube Tester Multitester AM & FM Signal Generators—Audio Oscillator Condenser Tester.

All the above six in one carrying case, at a price normal for any single one of them. It's easy to carry your laboratory with you. The tube tester has every feature and more than Model 322. The condenser tester reads "good" or "bad" for leakage of electrolytics, paper or mica capacitors. FM Signal Generator accurately set for four needed calibration frequencies and is identical to model 710. 720. AM Signal Generator set for four needed calibration frequencies and is identical to model 710.

MULTITESTER RANGES:

Ohms: 0-500-5000-0-0.1-1-10 meg.
Decibel: -8 to 15, 15 to 29, 29 to 49,
32 to 55 db.
Output: 0-10-50-500-1000 volts.
Operating instruction, etc. Size 5" x 13" x 9 1/2".
Your Cost **\$118.93**

DC Volt: 0-10-50-500-1000-volts.
AC Volt: 0-10-50-500-1000 volts.
DC Mil: 0-1-10-50-100.
DC Amp: 0-10.
Housed in oak carrying case complete with tubes leads
Model 8073—60 Cycles

TERMS: \$29.73 Down Payment, \$15.99 for 6 months.

LOWEST PRICED TUBE TESTER AVAILABLE

MODEL 322 DYNOPTIMUM TUBE TESTER

Simple operation—only 4 switches used. It has a special noise test for tubes that otherwise test "good," gives a speedy leakage short test between all elements, tests new and old type of tubes, individual sections of multi-purpose tubes, and has provisions to check all miniature sub-miniature tubes. The complete instrument is protected against burn-out by line fuse which is immediately replaceable at the front of the panel. THIS MODEL FEATURES simplicity and speed of operation, as well as compactness. For 60 cycle operation

Model 322—Counter Model.....Your Cost **\$53.13**
(Sloping Steel Case)
TERMS: \$13.28 down, \$7.60 for 6 months.
Model 322P—Portable Model.....Your Cost **\$58.73**
(Oak Case)
TERMS: \$14.68 down, \$8.30 for 6 months.

MODEL 103 ROLL CHART

To be used in conjunction with Tube Testers models 322, 322P and 802N. Black wrinkle finish metal case with plastic window, designed to fit the test lead compartment of the above-mentioned models.

Model 103.....Your Cost **\$10.50**

NEW COMPACT SERVICETTE MODEL 4420

A new idea in service instruments provides a unique method of obtaining handy combinations of various units in one carrying case for compactness and economy. Open face instruments are easily removable for bench operation. Fit snugly into carrying case with compartment for test leads and small tools. This model 4420 combines pocket multitester. Model 449A with FM pocket generator 720. Test leads, output lead and carrying case includes Size 7 1/4" x 9" x 4".

Model 4420.....Your Cost **\$60.90**
TERMS: \$15.22 Down Payment, \$8.58 for 6 months.

MODEL 665-A INSULATION TESTER AND AC-DC

★10 billion ohm insulation resistance test.
★29 ranges handle practically any service, or laboratory testing job.
★8" giant meter accurate to 2% at full scale.

★Automatic line voltage check provides excellent AC and DC regulation to assure accuracy and stability.
★Automatic ohmmeter battery check.

RANGES

Vacuum Tube Ohmmeter: Direct reading, 0/1,000/10,000/100,000 ohms; 1/10/100/1000 megohms
Capacitance: 0/0.0001/0.002/0.02/0.2/2/20/200/2,000 mfd.
DC Vacuum Tube Voltmeter: Direct reading, 160 megohms on high ranges and 16 megohms on low ranges. 0/6/30/150/600/1500/6000 volts.

★Insulation Testing: 1 megohm to 10,000 megohm at 500 volts.
AC Vacuum Tube Voltmeter: Direct reading, input capacity 0.00005 mfd at terminals of instrument. Input res. 160 and 16 megohms. 0-3-6-30-150-600-1500-6000 volts. Measures signal and output voltages from 10 cps. to 10,000 cps.

Supplied in sturdy steel case complete with 4 leads and batteries.
Model 665-A—60 cycle.....Your Cost **\$132.30**
TERMS: \$33.03 Down, \$17.59 for 6 months.

RADIO CITY PRODUCTS

THE LOWEST PRICED TEST EQUIPMENT IN CANADA

A QUALITY UNIT AT ECONOMY PRICES MODEL 802N COMBINATION TUBE AND SET TESTER

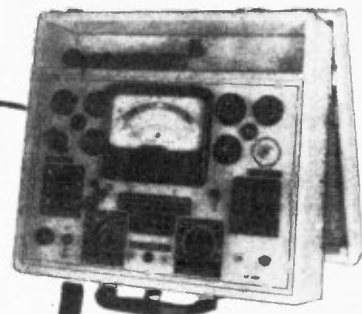
A complete tube tester and a complete set tester, with only 5 simple switches to operate for both tube and set tester combined.
Speedy leakage short tests.
Separate noise tester.
AC measurements free from temperature and frequency errors.
Tube tester tests new and old type of tubes as well as all ballast tubes, and individual section tests of multi-purpose tubes, etc.

RANGES

DC voltmeter 0/10/50/500/1000 at 1000 ohms
Four range AC voltmeter 0/10/50/500/1000
DC milliammeter 0/1/10/100/1000 DC ammeter 0/10
DB meter—8 to 15, 15 to 29, 29 to 49, 32 to 55 decibels.
Supplied in handsome hardwood case, with special compartment for small tools.
Complete with Batteries and Test Leads.
Model 802N—60 cycle.

TERMS: \$20.83 Down, \$10.41 for 6 months.

Your Cost \$83.30



LOWEST PRICED SIGNAL GENERATOR IN CANADA MODEL 705 SIGNAL GENERATOR

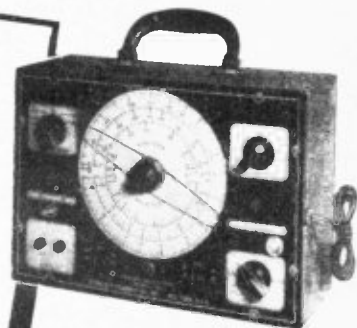
Both 30% and 80% Modulation

A feature ordinarily found only in high priced instruments—both high and low modulation for checking detector performance. Low per cent harmonics on four low frequency bands. High percentage harmonics on high frequency band only. Usable signals for FM receiver. R.F. alignment may be obtained using second harmonic band only. **FM RECEIVER IF'S BY THE ZERO DISCRIMINATOR CURRENT METHOD.**
Ranges from 95 kc to 25 mc. Calibration is accurate to 2% per band for broadcasting bands and within 3% for H.F. bands. Ideal for direct reading calibration of receivers.
★ Automatic shorting of coils not in use. ★ Individual shielding of RF circuits, coil assembly and attenuator. ★ Overall steel case, chassis and panel. ★ Fused line supply.
Planetary driver condenser, double and indicator—Output can be modulated or unmodulated.
Modulation frequency of 400 cycles also available for external application. Five step ladder attenuator.

Model 705—60 cycle (Complete).

TERMS: \$17.33 Down, \$9.62 for 6 months.

Your Cost \$69.30



EXCELLENT VALUE AT BARGAIN PRICE MODEL 805B COMBINATION TUBE AND SET TESTER

Complete leakage test under rated voltages for all electrolytic condensers. Regular Resistance test for electrostatic condensers at high voltage. Battery tester for all popular size and types of radio batteries giving true test under rated load. Readings on "Good-Bad" scale.
Low-range ohmmeter is back-up, low drain type. Medium range ohmmeter is powered by self-contained battery. High-range ohmmeter is operated from plug-in line supply.

RANGES

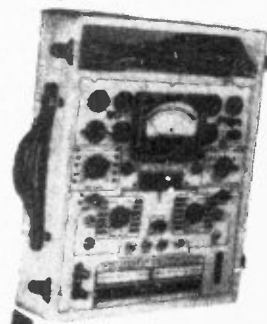
DC voltmeter: 0-2.5-10-50-250-1000-5000 volts.
AC voltmeter: 0-10-50-250-1000-5000 volts.
Output voltmeter: 0-10-50-250-1000 volts.
DC milliammeter: 0-1-10-100-1000 milliamperes.
DC ammeter: 0-10 amperes.
Ohmmeter: 0-250-2500-25,000-0.2-5-25 megohms.
Decibel meter: -8 to 15, 15 to 29, 29 to 49, 32 to 55.

FEATURES

★ Line fuse replaced at front of panel. ★ All filament voltages. ★ Tests all ballast tubes.
★ Tests condenser leakage. ★ Tests separate sections of multi-purpose tubes. ★ Hot intermittent short and leak tests of individual elements. ★ Separate test for noise, hum and intertittents. ★ Latest type built in "Rolindex" mechanical roller tube chart.
Supplied with high voltage test leads. For operation on 105-135 volts, 50-60 cycles.
Model 805B—60 cycle.

TERMS: \$31.33 Down, \$16.71 for 6 months.

Your Cost \$125.30



OUR EASY TIME PAYMENT PLAN

Test equipment selling at \$50.00 or more, can be purchased on our Easy Payment Plan. Only 25% down and six months in which to pay the balance.

6 Months			6 Months			6 Months		
Unpaid Balance	Chg.	Amt. Per Mo.	Unpaid Balance	Chg.	Amt. Per Mo.	Unpaid Balance	Chg.	Amt. Per Mo.
Up to \$60	\$5.75		\$101-110	\$6.50	\$19.25	\$151-160	\$7.75	\$28.00
\$61-70	5.85	\$12.50	\$111-120	6.75	21.00	\$161-170	8.00	29.75
\$71-80	6.00	14.25	\$121-130	7.00	22.50	\$171-180	8.25	31.25
\$81-90	6.15	16.00	\$131-140	7.25	24.25	\$181-190	8.75	33.00
\$91-100	6.25	17.75	\$141-150	7.50	26.25	\$191-200	9.00	34.75





RADIO CITY PRODUCTS



C.E.S. PRESENTS THE GREATEST VALUES IN MULTITESTERS

MODEL 488A ULTRA SENSITIVE MULTITESTER

A multitester built to satisfy the most exacting demands. Accurate, sturdily constructed and supplied with a natural oak carrying case. The ideal instrument for field and shop testing.

FEATURES:

- ★Dual D.C. sensitivity: 20,000 and 1,000 ohms per volt.
- ★AC sensitivity: 1,000 ohms per volt.
- ★ $4\frac{1}{2}$ " meter with movement of 50 microamperes 2% accurate.
- ★All multipliers matched and 1% accurate.
- ★Center of ohmmeter 37 ohms.
- ★Overall accuracy 3% on D.C. and 5% on A.C. voltages and currents.

RANGES

- DC Voltmeter: 0-3-12-60-300-600-1200-6000 volts.
- AC Voltmeter: 0-3-12-60-300-600-1200-6000 volts.
- Output Voltmeter: 0-3-12-60-300-600-1200-6000 volts.
- DC Microammeter: 0-60-300 microamperes.
- Complete with test probes and convenient carrying case with removable cover.
- Model 488A—Your Cost.....

TERMS: \$25.03 Down, \$13.51 for 6 months

\$100.10

MODEL 462 THE SENSITIVE MULTITESTER

Provides a wide range of measurements and features required for laboratory purposes and shop measurements.

- ★Sensitivity 20,000 ohm per volt on all DC measurements.
- ★ $4\frac{1}{2}$ " rectangular meter with a movement of 50 microamperes.
- ★Reading as low as 1 microampere can be made on the 100 microampere scale. Meter movement 1% accurate.

RANGES

- DC Volts: 0-2.5-10-50-250-1000-5000.
- AC Volts: 0-2.5-10-50-250-1000-5000.
- DC MA: 0-10-100-500 MA.
- Model 462—Open face—supplied in oak case with carrying handle.

TERMS: \$14.53 Down, \$8.22 for 6 months.

\$58.10

MODELS 447 AND 447P AC-DC MULTITESTER

3" square D'Arsonval meter. Accuracy of 2%. Ring type shunt circuits employed. Multipliers held well within 5% and overall tolerance kept within 7% on AC measurements with a better accuracy on DC.

RANGES

- D.C. Volt.: 0-5-50-500-2500 volts at 1000 ohm volt.
- AC Voltmeter: 0-10-100-500-1000 volts.
- Output Voltmeter: 0-10-100-500-1000 volts.
- DC Milliammeter: 0-1-10-100-1000 MA.
- Model 447—Open face instrument—supplied in hardwood case.
- Model 447P—Portable type—supplied in hardwood case with cover and test leads.

\$29.15

30.75

MODEL 449 POCKET MULTITESTER

This versatile multitester is remarkably accurate and combines low and high ranges. For general circuit testing and trouble shooting. 3" square meter for easy reading with a movement of 200 microamperes and a 5000 ohm per volt sensitivity.

RANGES

- DC Volts: 0-5-50-250-1000.
- AC Volts: 0-5-50-250-1000.
- Output Volts: 0-5-50-250-1000

Model 449.....

- DC MA: 5-10-100-1000 MA.
- Ohms: 0/1000 0/10,000 0/1 meg. 0/1 meg.
- Decibel: minus 6 to plus 52 db.

Your Cost \$34.30

NEW SENSATIONAL HI-MEG MULTITESTER

Accurate high range ohmmeter circuit requiring no batteries and no tubes. Bench model, $8\frac{7}{8} \times 5\frac{1}{2} \times 3\frac{3}{4}$ inches. The portable models, indicated by the letter P, include a pair of de luxe test leads. Size $8\frac{7}{8} \times 5\frac{1}{2} \times 4\frac{3}{4}$ inches.

Model	High ohm Range	Other ohm Ranges	Sensitivity ohms/volts	DC Volts	AC volts	DC Mills	Decibel Range	Your Cost
450 A	50	0-5000	1000	0-5-50-125-500-2500	0-10-100-250-1000	0-2.5-10-100-1000	-9 to +55	\$29.33
450 AP	50 Meg.	500,000						34.93
450 C	1000	0-5000	20,000	same as above	same as above	0-0.1-10 100-1000	same as above	39.90
450 CP	1000 Meg.	5 Meg.						45.50

METER REPAIR SERVICE

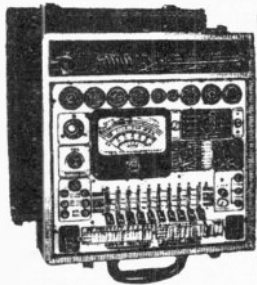
When an instrument comes in need of repair, it is important that the job is done with extreme care and efficiency. Canadian Electrical employs only the highest qualified technicians to do this exacting work. You will have more confidence in your instruments if they have been repaired by our Servicing Laboratory.



Radio — Television — Electrical — Industrial — Laboratory

PRECISION SERIES 620P

COMBINATION TUBE, BATTERY AND CIRCUIT TESTER.



A complete portable radio test lab. incorporating the same tube and battery testing features of the Series 612 PLUS a complete AC-DC multi-range circuit tester.

1000 ohms per volt AC and DC.
28 Ranges to 3000 Volts, 12 Amperes.
64 DB, 10 Megohms.

(ALL SELF-CONTAINED)

Rotary Selective Function and Range switching.

4 3/8" rectangular, 400 microampere meter.
Circuit Testing functions isolated from tube test circuit and power line.

MODEL 620-P

60 cycle—Your Cost \$109.73

Terms: \$27.43 down, \$14.75 monthly

25 cycle—Your Cost \$118.38

Terms: \$29.60 down, \$15.82 monthly

PRECISION MASTER ELECTRONAMIC TUBE AND BATTERY TESTER

Model 10-54P

35 RANGE, PUSH BUTTON OPERATED SENSITIVE AC, DC, TESTER

A complete, portable service laboratory; engineered and produced in answer to the ever increasing demand for practical instrumentation, to meet the needs of electronic developments. Provides every necessary facility for high speed testing, associated with Industrial, Electronics, Communications, Radio (A.M.-F.M.), Television, and laboratory.

SPECIFICATIONS

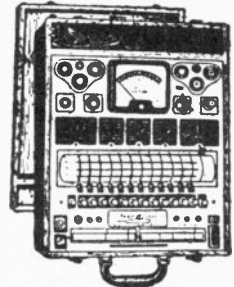
Six Decibel ranges: from — 20 to 70 db

Six output ranges same as AC volts ranges

Automatic interlocking push-button range selection 1% wirebound resistors.

Only 2 polarized tip jacks serving all standard functions.

All test circuits insulated from Power line.



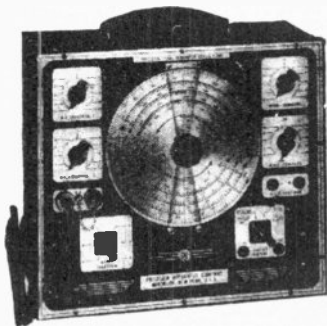
MODEL 10-54P

60 cycle Your Cost \$164.53 Terms: \$41.13 down \$21.73 monthly

25 cycle Your Cost \$173.18 Terms: \$43.30 down \$22.81 monthly

PRECISION SIGNAL GENERATOR MODEL E-200-C

FOR A.M. F.M. AND TELEVISION RECEIVER REQUIREMENTS



SPECIFICATIONS:

Frequency Coverage: 88KC to 120 MC at turn of 6 position switch. Alignment of A.M. F.M. and television receivers. 30 MC on fundamental. Dial direct reading in 8 bands to 120 MC. Accuracy — Constancy of Calibration: MAXIMUM of 1% DEVIATION on all bands.

LARGE FULL VISION 6 1/2 INCH DIAL:

0-1000 Point Vernier Scale and Twin Engraved Hair-Line Indicators:

The Circuit: Insuring maximum stability even at high modulation.

400 Cycle Sine-Wave Audio Oscillator — Independently Controlled from zero to over 50 volts. Allows DIRECT testing of Audio Power Output.

DUAL CALIBRATED R.F. Attenuators: provides direct gain measurement.

FOUR TYPES OF SIGNALS Selected "Unmodulated R.F." "400 cycle Modulated RF". "EXTERNALLY Modulated R.F.". (frequency or amplitude) "400 cycle Audio Output".

DIRECT READING VARIABLE MODULATION

0-100% modulation of R.F. Signal

DIRECT READING A.V.C. SUBSTITUTION SYSTEM

HAND CALIBRATED Each instrument is INDIVIDUALLY calibrated to better than 1% accuracy on all six bands. In black ripple finished, portable steel case.

Size 10 1/2 x 12 x 6". Ready for operation. Complete with tubes and coaxial output cable.

MODEL "E-200-C" 60 cycles—Your Cost \$86.53

Terms: \$21.38 Down, \$11.67 monthly.

MODEL "E-200-C" 25 cycles—Your Cost \$94.18

Terms: \$23.54 Down, \$12.77 monthly.

PRECISION VACUUM TUBE TESTER ELECTRONAMIC — MODEL EV-10P

RANGES TO 6000 VOLTS A.C. — D.C. 2000 MEGOHMS, 12 AMPERES 70 DB.

Zero center V.T.V.M. without reversal of test prods. shielded coaxial probes. Combining both V.T.V.M. as well as std. 1000/volt AC-DC test circuits.

RANGE SPECIFICATIONS

Six circuit Probing, Zero-Center, V.T.V.M. Ranges. 3, 6, 12, 60, 300, 600, volts D.C. Six Wide Range Ohmmeter — Megohmmeter Ranges: 0-2000 ohms (20 ohms center scale) 0-200,000 ohms (20,000 ohms center scale). 0-2 megohms (20,000 ohms center scale). 0-200 Megohms (2 megohms center scale).

0-2000 Megohms (20 megohms center scale).

Eight A.C. and Eight D.C. Voltage.

blocking condenser to 600 volts.

Eight Decibel Ranges from 26 to 70 DB, valuable for transmission and output tests. Full vision 7" Rectangular Meter. Bakelite cased. 400 microampere D'Arnoval type movement, 2% accuracy.

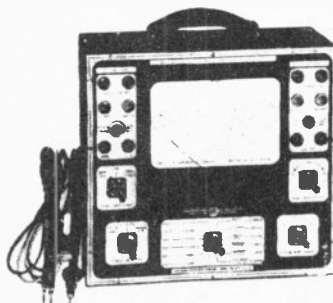
EV-10P Complete as described above in hinged, removable covered, hardwood portable case.

MODEL "EV-10P" 60 cycle—Your Cost \$110.83

Terms: \$27.71 down, \$14.57 monthly

25 cycle—Your Cost \$119.48

Terms: \$29.87 down, \$15.96 monthly.



PRECISION AM, FM, T.V. CIRCUIT TESTER

THE NEW SERIES 85

Compact, Wide-Range Super-Sensitive Test Set

20,000 ohms per volt D.C.

1,000 ohms per volt A.C.

34 Ranges to 6000 volts, 12 amperes, +70 DB, 60 megohms.

Completely self contained.

Physically and electrically engineered as a compact, yet full-bodied, laboratory style high sensitivity test set. For production, test, laboratory, school and service-maintenance phrase of modern radio-electronics-communications:

AM, FM, T.V.

Molded bakelite case, with sweat proof plastic handle. Anodized, heavy gauge aluminum panel with permanently etched characters. 50 microampere meter with large easy reading scales and numerals.

Voltage Ranges: 0-3-12-60-300-1200-6000 volts.

Current Ranges: 0-120 microamps. 0-1-2-12-120 MA.

0-1-2-12 Amperes

Resistance Ranges: 0-6000 ohms (35 ohms at center scale)

0-600K — 6 Meg — 60 Megohms.

Decibel Ranges: From — 26 to 70 DB

MODEL "85"

Complete with batteries, test leads, and operating instructions.

60 cycle—Your Cost \$51.67



SUPREME

RADIO AND TELE

HIGH QUALITY TEST EQUIPMENT AT LOW COST



SUPREME MODEL 670 FIXED FREQUENCY SIGNAL GENERATOR

for aligning receivers operating on both old
and new FM Bands.

RF OUTPUT FREQUENCIES—10.7 MC, 50 MC, 105 MC
Modulation control providing unmodulated narrow and wide
modulated signals also provision for external modulation; Atten-
uator provides control from minimum to maximum output.
VOLTAGE FOR OPERATION—Horizontal sweep of Oscillos-
cope available by convenient output jack.

MODEL 670—Price available when established.



MODEL 589-A TUBE AND BATTERY TESTER

MODEL 589-A TUBE AND BATTERY TESTER has a completely
modernized circuit. The tube test sockets are not wired directly to the
circuit, but, instead, pass through the patented Supreme Double Float-
ing Filament Return Selector system which automatically re-connects
all tube elements to any possible tube base arrangement. Tests every
type of tube including loctals, miniature, bantam jr., single ended, Rogers,
etc., from $\frac{1}{2}$ volts to 117 volts. Tests separate sections in multi-purpose
tubes. Checks all leakages, shorts, open elements and filament continuity
with a neon lamp. A circuit insert is provided for checking noise, leakage,
loose and bad connections.

The battery testing circuit of the Model 589-A provides the proper lead
at which each battery is to operate, for all 1.5, 4.5, 6.0, 45 and 90 volt
portable radio types. The condition of the battery is indicated on a
REPLACE-GOOD Scale.

Just "follow the arrows"—you can't go wrong. Roller type tube chart
with brass geared mechanism lists tubes in logical numerical order.

Model 589-A—PORTABLE TYPE Your Cost \$66.10 60 C y \$72.85 2 C y.

COUNTER MODELS ALSO AVAILABLE - COME IN & SEE OUR NEW TESTER DEPARTMENT



MODEL 543



MODEL 542



**PUNISHMENT
PROTECTED, STURDY,
SMALL**



**SUPREME MODEL 632
MULTIMETER**

POCKET MULTIMETERS

1000 ohms per volt

The Model 543 Pocket Multimeter
uses the same bakelite case as Model
542. Attractive two color panel—full
size 3" one-mil meter. A single rotary
selector switch provides functions and
ranges of: Resistance—0/2000/200,000
ohms; Direct Current—0/6/60/600
M.A.; A.C.—0/15/150/600/3000 volts;
D.C.—0/15/150/600/3000 volts. Batter-
ies furnished and contained within
case. Ranges at 1,000 ohms per volt
standard sensitivity. This is a beauti-
fully designed and rugged little instru-
ment at an aston-
ishingly low price.

Model 543.

Your
Cost..... \$25.60

5000 ohms per volt

Pocket laboratory with 24
ranges. 4 D.C. mil ranges
0/0.3/6/30/150; 4 D.C. volt
ranges 0/6/150/300/1500; 4
ohms ranges 0/2000/20,000/
200,000/2 meg; 4 A.C. volt
ranges 0/6/30/150/600; 4 out-
put ranges of 0/6/30/150/600;
4 decibel ranges of—6/+10, +
8/+24, +22/+38, +34/+50.
Full size 3" square meter. Sensi-
tivity—5000 ohms per volt. All
ohmmeter ranges are operated
by batteries contained within
its durable black moulded bako-
lite case of only 3"x5 $\frac{1}{4}$ "x2".

Model 542.

Your Cost..... \$31.95

**BUILT FOR
PUNISHMENT**

Popular Supreme Model 542
and Model 543 in a sturdy
metal case. Used by Servicemen
where hard knocks are the rule.
Heavy steel cover protects
meter—snaps into place. Large
sturdy leather handle, but still
small enough to slip in your
pocket.

Size 3 $\frac{1}{2}$ "x6 $\frac{1}{4}$ "x2 $\frac{3}{4}$ ".

Protected—Sturdy—Small

Model 542 with metal case.

Your Cost..... \$35.30

Model 543 with metal case.

Your Cost..... \$28.95

D.C. VOLT RANGES—0/5/25/
100/250/500/1000/5000.

A.C. VOLT RANGES—0/5/25/
100/250/500/1000/5000.

OUTPUT VOLT RANGES—0/5/
25/100/250/500/1000/5000.

DECIBEL RANGES:—10/ +9,
0/ +35, 0/ +43, 0/ +49.

D.C. CURRENT—0/5/25, 100/
250/500/1000 milliamperes. Two
ampere ranges of 0/10/25.

RESISTANCE RANGES—0/2000
/20M, 200M, 2 megohms, 20 meg-
ohms.

Model 632—Price available when
established.



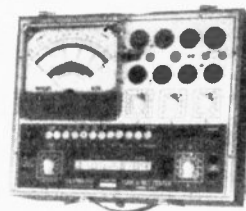
BUY ANY SUPREME TESTER ON OUR EASY PAYMENT PLAN

World Radio History

VISION *Testing* INSTRUMENTS

MODEL 600-B TUBE, BATTERY AND SET TESTER

Here is our finest Portable Laboratory of the very latest design. A DeLuxe combination incorporating a tube tester for checking all types of receiving tubes from $\frac{1}{4}$ volt filaments to full line voltage. Full protection against obsolescence caused by "roaming filament connections" with the patented Double Floating Filament Return Selector, now its 10th year on Supreme tube testers. Only one socket for each type tube base eliminating confusion in the 4, 5, 6, 7, octal, loctal, miniature, bantam jr., pilot lamp, etc. Dual Sensitivity tube leakage, short and filament continuity test. Circuit insert for Noise Test. Roller Type Tube Chart and 1 year's Free tube setting service. Includes Battery Tester for checking portable radio batteries under load. Electrolytic and Electrostatic Condenser Leakage Tester. Total of 31 Multimeter ranges for measurement of D.C. Volts from .1 to 2500 D.C.V.; A.C. Volts (.1 to 1000 A.C.V.), D.C. Milliamperes (.01 to 1000); D.C. Amperes (.1 to 10 Amps.); Resistance (0.1 ohm to 20 megohms); Output Volts (.1 to 1000 A.C.V.) Rectifier Guaranteed — No Switch or Button to hold on A.C. or output volts. Individual Calibration to 2% on D.C.—3% on A.C. A favorite tester among servicemen all over the world—an unbeatable combination. Complete with Instructions.



MODEL 600-B—Your Cost approx..... 60 Cy. 25 Cy.
\$120.85 \$128.60

MODEL 576 OSCILLATOR



Compact Signal Generator incorporating electron coupled circuit giving greatest stability. Iron core coils. Leakage minimized by double shielding. RF ranges from 65 to 20,500 kilocycles and harmonics to 82 megacycles. Audio frequency: 400 cycles—voltage output continuously variable from minimum to maximum. Internal modulation at approximately 50% on RF carrier. Jack provided for external modulation. 110 volts.

MODEL 576. 60 Cy. 25 Cy.
Your Cost..... \$86.20 \$93.00
Will be replaced by New Model 601

MODEL 569 MUTUAL CONDUCTANCE TUBE TESTER

This new test-r utilizes Supreme's Patented Double Floating Filament Return Selector System, which eliminates the use of more than one socket of each type. A new method of measuring the rated trans-conductance or mutual conductance of tubes.

Indicates mutual conductance directly in micromhos. "Good" "Bad" scale. Tests all tubes including the latest sub-miniature types and those in newly developed portable radios. FILAMENT VOLTAGES available from 1 v. to full line voltages.

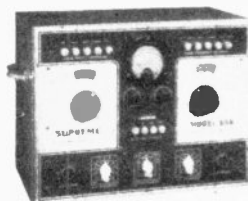
Leakage and shorts checked with neon lamp at the recommended RMA sensitivity. Circuit insert provided for checking noise, leakage, loose and bad connections.

Settings for tubes provided on roller chart. Beautiful golden oak hand-rubbed finish case.

MODEL 569—Your Cost, 60 Cycle..... \$114.70
25 Cycle..... 122.45



Will be replaced by New Model 620

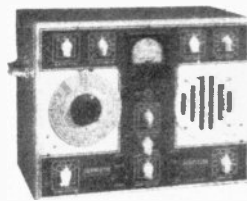


MODEL 666 A.F. and R.F. METERED OSCILLATOR

Here it is! A combination signal generator with which you can do everything. Five types of signal outputs—(1) Variable audio from 15 to 15,000 cycles (2) Unmodulated R.F. from 65 K.C. to 20.5 M.C. on fundamentals and to over 60 M.C. on harmonics (3) Variable audio modulated R.F. over same range for frequency modulated R.F. for visual alignment work with any scope (5) Means for varying the percentage of amplitude modulation from 0 to 80%! Has push button attenuator and built in vacuum tube voltmeter.

Write us for complete information.

MODEL 666. 60 Cy. 25 Cy.
Your Cost Approx..... \$170.65 \$177.95

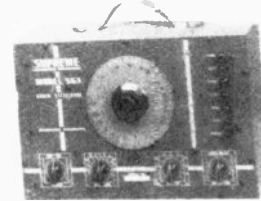


MODEL 688 AUDOLYZER A New Trouble Shooter

With Supreme's new Audolyzer you can quickly and profitably service even the "toughest receiver! Locate any faulty stage from antenna to loudspeaker.

Measure D.C. operating voltages without upsetting receiver's normal operation. 7 vacuum tube voltmeter ranges of 0/1/3/10/30/100/300/1000 DC volts at 15 megs input, and resistance ranges of 0/200/2000/200,000 ohms and 0/2/20 megs. Use Audolyzer as two channel intermittent checker. Make no-current D.C. voltage measurements to 1000 volts. Measure A.V.C., A.P.C. and D.C. grid voltages. Make comparative stage by stage gain measurements. Hear distortion originating in any stage. Determine frequency or receiver's oscillator. Find unknown frequency of any signal. Also can be used with any scope for seeing distortion.

MODEL 688. 60 Cy. 25 Cy.
Your Cost Approx..... \$158.75 \$165.95



MODEL 503 BEAT FREQUENCY AUDIO GENERATOR

At Last! A Beat Frequency Oscillator to meet the most exacting requirements of radio service shops. Provides alternating voltage from 15 cycles to 15 kc. Frequency calibrated in cycles over a 280°, 12" arc.

Output Impedances—250/500/5000 ohms.

Each impedance centre-tapped for P.P. and other bal. input systems. Output adjustable for any level up to max. loaded voltage rating. Open circuit output of 65 volts (RMS) at 5000 ohms section.

Voltages on 250 and 500 ohm sections are 9 to 14 respectively. Harmonic distortion less than 30 db. below fundamental at 5000 cycles and less than 25 db. at 50 cycles. Flat frequency amplitude characteristic over most used range. Within +1 db. from 30 to 10,000 cycles and down 2 db. at 30 and 15,000 cycles. Accuracy within $\pm 2\%$

MODEL 503. 60 Cy. 25 Cy.
Your Cost..... \$78.70 \$84.30

Will be replaced by New Model 680.

TERMS FOR ALL MODELS: 25% DOWN PAYMENT, 6 MONTHS FOR BALANCE

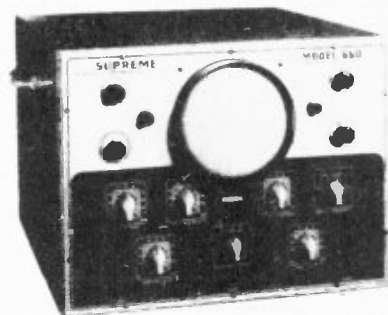
COMPLETE SUPREME CATALOGUE SENT ON REQUEST

Latest Models

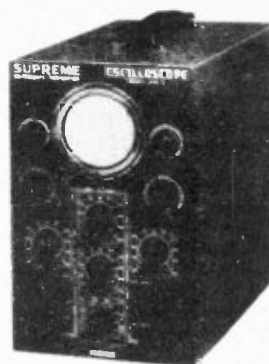
MODEL 660

5"

OSCILLOSCOPE



MODEL 546-A 3" OSCILLOSCOPE



BEAM CENTERING—No noticeable time delay or defocusing, no shift in amplifier characteristics, no change in gain of amplifiers.

SWEEP GENERATOR RANGE from 7 cycles to 100 KC. in six steps. Positive synchronization at all frequencies.

High powered **VERTICAL AMPLIFIER** provides an undistorted virtual image height of 24 inches and **HORIZONTAL AMPLIFIER** spreads image to virtual length of 17 inches.

Direct connection to deflection plates available.

PERFORMANCE DATA

Vertical Amplifier

Sine Wave Freq. response: ± 2 db. 5 cycles to 5 mc. down 6 db at 7 mc.

Square wave response: 30 cycles to 150 kc.

Horizontal Amplifier

Sine Wave Freq. response: ± 2 db. 5 cycles to 1.5 mc. down 6 db. at 2 mc.

Square wave response: 30 cycles to 50 kc.

Vertical and Horizontal gain controls independent of freq. within range of the amplifier.

Phase shift: Less than 10 at 60 cycles (overall)

Z Axis Amplifier

Sine Wave Freq. response: ± 2 db. 100 cycles to 100 kc. down 6 db. at 150 kc.

Power Supply—110-125 v. 50/60 cycle, 250 watts maximum.

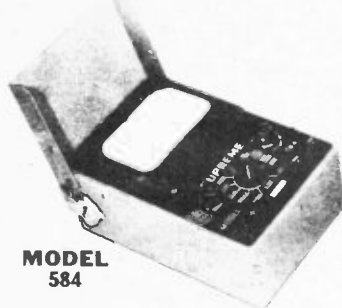
MODEL 660—Your Cost Approx. **\$276.85**

Terms: 25% down payment; 6 months for remainder.

The Model 546A has merited the endorsement of Servicemen, Radio Set Manufacturers in research and production, industrial laboratories and factories, colleges and scientists for more than 7 years. A most complete oscilloscope, incorporating a three-inch cathode ray tube, built-in vertical and horizontal amplifiers and sweep generator of the latest design. Extremely flexible circuits and simple operation. All controls and terminals on front panel. External deflecting plate connections with or without amplifiers, positive, stable snap-lock synchronization external or internal. High impedance input—wide range frequency response—rugged construction and high safety factor.

MODEL 546A. 60 Cy. 25 Cy.
Your Cost **\$112.20 \$119.40**
Will be replaced by New Model 650

SUPER SENSITIVE MULTI-METER



MODEL 584

The new Model 584 is a fitting companion to the extremely popular Model 542 which is so well known to radio servicemen wherever electronic equipment is used. The Model 584 uses a 50 micro-ampere $\frac{1}{2}$ " open face movement which has a sensitivity of 20,000 ohms per volt. All ohmmeter ranges including the 20 meg-ohm range are operated by batteries furnished with the instrument and contained in its sturdy metal carrying case.

D-C VOLT RANGES (20,000 ohms per volt), 0/5/25/100/500/1000/5000. (First Scale division .1 volt)

D-C VOLT RANGES (1000 ohms per volt), 0/25/100/500/1000/5000

A-C VOLT RANGES (1000 ohms per volt), 0/5/25/100/500/1000/5000

Decibel Ranges: 10/+9, 0/+23, 0/+35, 0/+49.

D.C. Current Ranges 0/100 microamperes, 0/10/100/500 Milliamperes.

Resistance Ranges 3 ranges, 0/2000/200M/20 megohms.

Output Volt Ranges 6 ranges, 0/5/25/100/500/1000/5000

Carrying Case: Sturdy steel case with hinged cover to protect meter. Finished in grey wrinkle. Panel grey wrinkle, white letters and markings; red highlights.

SIZE 5" x 7 $\frac{1}{2}$ " x 3"

MODEL 584 MULTI-METER

Your Cost **\$46.50 \$46.50**
Will be replaced by New Model 640.

NEW DELUXE SET TESTER

The Model 567 is Supreme's newest Deluxe Portable Set Tester. It incorporates several new functions. Extended ohmmeter, both A-C and D-C current ranges give the serviceman measuring facilities that he has heretofore not been able to buy.

DOUBLE METER SENSITIVITY—The Model 567 has two direct current sensitivities, 1000 ohms per volt for regular D-C measurements and 20,000 ohms per volt for measurements in high resistance circuits. The sensitivity of the A-C voltmeter ranges is 1000 ohms per volt.

DIRECT CURRENT RANGES—9 ranges consisting of 0/100 microamperes, 1/5/25/100/500 milliamperes, 1/10/50 amperes.

A-C CURRENT RANGES—3 ranges of 0/1/10/50 amperes.

D-C VOLT RANGES—Total of 14 ranges, 7 ranges at 1000 ohms per volt and 7 ranges at 20,000 ohms per volt, 0/5/25/100/250/500/1000/5000 volts.

A-C VOLT RANGES—7 ranges at 1000 ohms/volt 0/5/25/100/250/500/1000/5000.

OUTPUT VOLT RANGES—7 ranges of 0/5/25/100/250/500/1000/5000. No external capacitor required. Covers all necessary ranges to provide indications for aligning receivers with Signal Generator.

DECIBELS—5 ranges of 10/+9, 0/+23, 0/+35, 0/+43, 0/+49.

Calibrated for 500 ohms line.

RESISTANCE RANGES 7 total ranges. Low ohms (linear scale) two ranges of 0/5 and 0/5 full scale. High ohms (non-linear scale) 0/500, 5000, 500M, 5 megohms, 50 megohms.

CARRYING CASE. Sturdy steel carrying case finished in grey wrinkle. **SIZE:** 9 $\frac{1}{2}$ " x 9 $\frac{1}{2}$ " x 5 $\frac{1}{4}$ "

MODEL 567—60 cycle or 25 cycle—Your Cost **\$85.60**
Will be replaced by New Model 644.



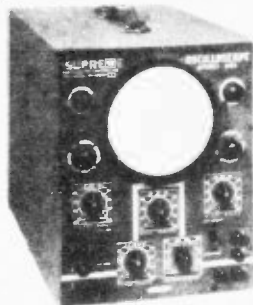
MODEL 567

DROP IN TO SEE OUR NEW TEST EQUIPMENT DEPARTMENT

Instruments

NEWEST ENGINEERING DEVELOPMENTS

Panel Meters



5" OSCILLOSCOPE MODEL 655

Exceptional Value

The Model 552 five inch Oscilloscope has been designed using the staple and trouble free circuits which have been thoroughly tested during the last eight years in our Model 546. Its amplifiers are designed to have good sensitivity and retain reasonably flat frequency response throughout the audio and supersonic frequency ranges.

Switches arranged for External Synchronization and for External Horizontal Sweep. One horizontal and one vertical plate are available on the panel through binding posts.

2 5Y3G 1 885
2 6SJ7 1 5CP1

6 Tubes

Sweep Oscillator has a frequency range of approximately 20 to 30,000 cycles selected in seven ranges.

Synchronization control provided for positive locking of pattern of screen.

Vertical Amplifier Frequency response 20 cycles to approximately 100 kilocycles. Circuit will pass 60 cycles to 75 kilocycles. Will handle 60 cycle square wave voltage.

Horizontal Amplifier. Frequency response 20 cycles to 75 kilocycles. Will handle 60 cycle square.

Carrying Case. Heavy Steel with grey wrinkle finish, white letters and markings, red highlights.

Size 12" x 9 1/4" x 18".

No. 655—Oscilloscope.

Your Cost: 60 cycle. Approx. \$124.40 25 cycle Approx. \$131.55

Easy Terms: 25% down payment

6 months for balance.



Supplied in 3 sizes
Model 3100 3" square
Model 3400 3" Round
Model 4100 4" Square

HAIRLINE ACCURACY ASSUMED BY

- 1-Efficient Alnico Bar Magnet
- 2-Double Bridge Construction
- 3-Selected Pivots and Jewels
- 4-Strong Tough Pointer
- 5-Simple rugged assembly insures permanent alignment
- 6-High torque movement reduces friction.

D.C. MILLIAMMETERS

Range	Mod. 3100 Your Cost	Mod. 3400 Your Cost	Mod. 4100 Your Cost
0-1	\$8.33	\$8.33	\$9.36
0-3	8.33	8.33	9.36
0-5			
0-10			
0-15			
0-25			
0-50	7.88	7.88	8.91
0-75			
0-100			
0-250			
0-500			
0-750			

D.C. MICROAMMETERS

0-50	\$19.35	\$19.35	\$20.25
0-100	16.88	16.88	17.78
0-200	14.85	14.85	15.75
0-500	11.25	11.25	12.15

D.C. VOLTMETERS (1000 ohms per volt)

Range	Mod. 3100 Your Cost	Mod. 3400 Your Cost	Mod. 4100 Your Cost
0-1			
0-3			
0-5			
0-10	\$9.90	\$9.90	\$11.03
0-25			
0-50			
0-100	10.58	10.58	11.70
0-150	10.80	10.80	11.93
0-300	12.15	12.15	13.28
0-500	13.50	13.50	14.63

D.C. AMMETERS

0-01			
0-2			
0-5	\$7.88	\$7.88	\$8.55
0-10			
0-25			
0-50			

Supreme Minimizers



A truly "vest pocket" test instrument indispensable to anyone in the electronic, radio and electrical business. These meters are as fully accurate and dependable as any large instrument. The ranges are selected so that only one scale is necessary and the basic range must only be divided or multiplied by ten. For the Radio Serviceman, Amateur, Laboratory Technician and Electrician

Specifications—Available in many models. The most commonly used ranges are listed below. Size: 2 1/4" x 3 3/8" x 1 1/2".

Model	Your Cost
402 Voltmeter, 1000 ohms/volt 0-5 v., 0-50 v., 0-500 v.	\$12.05
403 Voltmeter, 1000 ohms/volt 0-10 v., 0-100 v., 0-1000 v.	12.05
404 Voltmeter, 1000 ohms/volt 0-2.5 v., 0-25 v., 0-250 v.	12.05
410 Milliammeter, 0-25 ma., 0-250 ma., 0-2500 ma.	12.05
411 Milliammeter, 0-50 ma., 0-500 ma., 0-5000 ma.	12.05
420 Ammeter, 0-1 amp., 0-1 amp., 0-10 amp.	13.30
430 Microammeter, 50-0-50 ua., 500-0-500 ua., 5000-0-5000 ua.	
Designed especially for use in alignment of FM receivers	18.15
440 Ohmmeter, 01:000, 20:000 200:000 ohms	14.35

METER Repair Service

Servicemen and Engineers!
Send us your defective equipment.

All types of radio and electronic instruments repaired.
*Moving coils repaired or replaced.

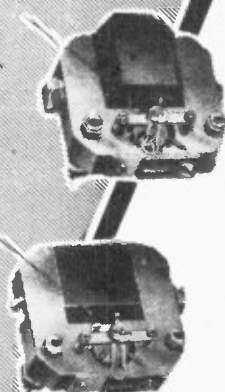
*Shunts and hair springs replaced.

*Magnets remagnetized.

These are just a few of the intricate repairs which can be done by our instrument experts.

Prompt Service—Reasonable Prices

ALL WORK GUARANTEED



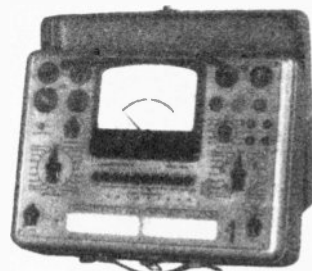
APPROXIMATE PRICES APPLY TO NEW MODELS ON WHICH PRICE IS NOT DEFINITELY ESTABLISHED

TRIPLETT *Quality* TEST EQUIPMENT

TUBE TESTERS—NEW, FASTER, MORE ACCURATE LEVER SWITCHING—LARGE 6" METER



Model 3413



Model 3480

Professional, highly attractive Tube Testers that will add distinction to any dealer's counter or service shop. Quickly and conclusively test tubes for value, inter element shorts and leakages—plus Transconductance Comparison test where test voltages are applied to tube elements without any chance of overloading.

New slide-lever, three position switching makes possible an exclusive combination of tube testing advantages including MAXIMUM CIRCUIT FLEXIBILITY requiring only one socket for each tube base type; SIMPLICITY OF OPERATION with minimum of control settings make these testers speediest of all testers; INDIVIDUAL CONTROL OF EACH TUBE ELEMENT gives thorough and conclusive tests, takes care of roaming elements, dual cathode structures, multi purpose tubes, etc. You can SET UP YOUR OWN TESTS FOR NEW TUBES. The final answer to simplified tube element control plus security, anti-obsolescence. Sockets—4-5-6 prong; 7 prong large and small with combination for pilot lights and flashlight bulbs; 8 prong octal and loctal; 5 prong bantam; 7 prong miniature and subminiature; one spare. Tubes Tested—Receiving, gaseous rectifiers, resistor and ballast tube continuity, pilot lamps. Neon Short Test—shows slightest inter element short or leakage while the cathodes are hot. Line Voltage Indication—permits observation and adjustment for line fluctuations, insuring greater accuracy. SPEED-ROLL CHART conveniently located simplifies testing. Model 626 instrument with 5.6" scale has 3 color divisions for easily identifying GOOD-? BAD tubes. Modern two-tone metal case finished in attractive tan "hammered" enamel with brown sockets, knobs, etc. 25 60 cycle Universal transformer.

Model 3413, Size: 15 1/2" x 11 1/2" x 6 1/8" with cover. \$79.75
TERMS: \$19.94 Down, \$10.93 for 6 months.

COMBINATION TESTER—a complete, portable Laboratory for conclusive Tube Testing and in addition a complete Volt Ohm-Mill-Ammeter providing broad testing facilities. Multi-color scale markings are easily readable on the large 6" meter.

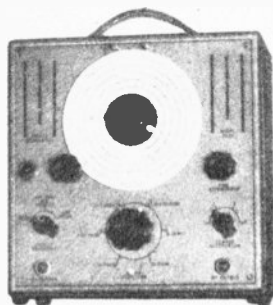
RANGES

D.C. VOLTS: 0.3-12 60-300-1200, 10,000
Ohm Volt; A.C. VOLTS: 0.3-12 60-300-1200,
2000 Ohm Volt; D.C. AMPS: 0-12, at 250
M.V.; D.C. MILLIAMPS: 0-1 2-12-120, at
250 M.V.; OHM: 0-1000-10,000 (10-100
center scale); MEGOHM: 0-1-50 (10,000-
500,000 Ohms center scale); OUTPUT: Jacks,
Condenser in series with A.C. Volt.

Tube Tester has fully-balanced, multi purpose
test circuit, as described for No. 3413. Case
appearance same. Size: 15 1/2" x 11 1/2" x 6 1/8".
25-60 cycle universal transformer.

Model 3480 \$114.75
TERMS: \$28.96 Down, \$15.37 for 6 months.

Wider Range Signal Generators



Model
2432

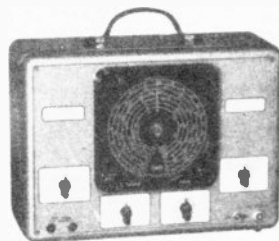
Sensationally popular Signal Generator with Frequency coverage continuous and overlapping on Six bands—all Fundamentals.

BAND A—75 to 224 KC
B—220 to 750 KC
C—700 to 2500 KC
D—2450 to 8500 KC
E—8 to 25 MC
F—24 to 50 MC
To 150 MC (Strong Harmonics)

Outstanding features include six-position, fully shielded turret-type coil switching for rapid, efficient band changing; stability greatly increased by use of air trimmer capacitors; permeability adjusted coils and electron-coupled oscillator circuit. Internal Modulation—approx. 30% at 400 cycle, $\pm 15\%$ (RMA Standards). Audio Signal—400 cycle obtained from panel jacks. Voltage regulated power supply. Co-Axial cable minimizes losses. Six 330 arcs approximate 66" dial Metal "SQUARE LINE" case, 10" x 10" x 6 3/4", tan "hammered" enamel finish, detachable cover, strap handle for portable use. Brown sockets, knobs and panel markings.

Model 2432—60 cycle only \$94.50
TERMS: \$23.62 Down, \$11.82 for 6 months.

Signal Generator



Model
3432

A completely new Signal Generator with frequency coverage continuous and overlapping on the following bands—(Five Bands Fundamentals):

BAND A—165 — 525 KC
B—500 — 1750 KC
C—1700 — 6200 KC
D—6 — 18.5 MC
E—18 — 40 MC
E2—36 — 80 MC
E3—54 — 120 MC } Harmonics

Unique new feature is the brightly illuminated dial (edgewise lighting) making the dial easier to read and also providing power ON-OFF indicator. Seven 330 arcs total 90" dial length. Range selector is 5-position, follow-up, coil switch with complete shielding. All RF and Audio circuits are double shielded with copper plated steel shields. RF Selector provides high and Low RF Output. Internal Modulation—Variable 0-100% at 400 cycles. External Modulation—40 to 15,000 cycles. Metal case, 15 1/2" x 11 1/2" x 6 1/4", with tan enamel finish has leather strap handle. Power: 115 Volt, 25 60 cycle universal transformer.

Model 3432 \$76.75
TERMS: \$19.19 Down, \$9.50 for 6 months.

F.M.-A.M. Signal Generator



Model
3433

FM-AM Signal Generator with frequency coverage from 100 KC to 120 MC in 10 Bands plus additional 50 MC from fixed Oscillator giving fundamental coverage to 170 MC.

BAND A—100 — 200 KC
B—200 — 400 KC
C—400 — 820 KC
D—820 — 1700 KC
E—1.7 — 3.5 MC
F—3.5 — 7 MC
G—7 — 14.5 MC
H—14.5 — 27.5 MC
I—27.5 — 55 MC
J—55 — 120 MC

Double copper plated steel shielding throughout greatly minimizes R.F. leakage. Constant deviation by using fixed frequency reactance modulated oscillator. Output meter measures relative R.F. output of Generator, Heterodyne Detector for frequency measurement. Co-Axial cable for output lead. Stability greatly increased by use of air trimmer capacitors, permeability adjusted coils and voltage regulated power supply. Metal case, 15 1/2" x 11 1/2" x 8 1/4", finished in black enamel with red and white panel markings. Power: 115 Volt, 50-60 cycle A.C. only.

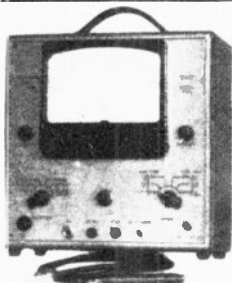
Model 3433 \$220.50
TERMS: \$55.12 Down, \$28.90 for 6 months.

RADIO HEADQUARTERS FOR DEALERS AND SERVICEMEN

TRIPLET *Quality* TEST EQUIPMENT

ELECTRONIC VOLT-OHM-MFD-MILLIAMETER

Model 2451



Absolute stability for positive and negative voltages.

Engineering considerations render this attractive instrument most useful for FM and Television work or any sensitive circuit requiring a high impedance measuring device. Long-scale 6" meter with three-color markings for greater readability provides greatest accuracy in all applications. Minimum tube change and full line voltage compensation are outstanding features.

This unit employs a cathode follower circuit preceding the balanced bridge circuit which makes possible the use of high input impedance for A.C. and D.C.

Voltage measurements. Two voltage regulator tubes provide absolute stability. Case 10" x 10" x 5 3/4" Metal, tan enamel finish.

RANGES

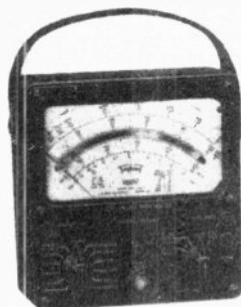
D.C. VOLTS: 0-2.5-10-50-250-500-1000. A.C. VOLTS: 0-2.5-10-50-250-500. D.C. MILLIAMPS: 0-0.1-1-10-100-500-1000. OHMS: 0-1000 (mid-scale) 10-10,000-100,000. MEGOHMS: 0-1 10-100-1000. CAPACITY IN MFD: 0-0.005-0.05-0.5-5-50.

MODEL 2451—60 cycles. Your Cost **\$139.30**
25 cycle prices on request.

TERMS: \$34.83 Down, \$18.50 for 6 months.

LONG-SCALE, MOLDED CASE VOLT-OHM-MIL-AMMETER

Model 625-NA



D.C. Voltage ranges with dual sensitivity (10,000 and 20,000 ohms per volt) provide for double the number of full scale readings the average tester gives. Ideally suited for testing Television and other high resistance D.C. and A.C. circuits.

DOUBLE SENSITIVITY D.C. VOLT RANGES: 0-1.25-5-25-125-500-2500 Volts, at 20,000 ohms per volt. 0-2.5 10-50-250-1000-5000 Volts, at 10,000 ohms per volt. **A.C. VOLT RANGES:** 0-2.5 10-50-250-1000-5000 Volts, at 10,000 ohms per volt. **D.C. MICROAMPERES:** 0-50 Microamperes, at 250 M.V.

D.C. MILLIAMPERES: 0-1-10-100-1000 milliamperes, at 250 M.V.

D.C. AMPERES: 0-10 Amperes, at 250 M.V. Temperature compensated circuit for all current ranges.

OHM MEGOHM RANGES: 0-2000 ohms (12 center scale), 0 20,000 ohms (1200 center scale), 0-40 Meg. (240,000 center scale).

DIRECT READING OUTPUT LEVEL DECIBEL RANGES: —30 to +69 DB.

OUTPUT READINGS—condenser in series with A.C. Volts.

Model 625-NA Your Cost **\$55.00**

Model 629—Carrying case **7.70**

TERMS: \$13.78 Down, \$7.83 for 6 months.

MODEL 630 VOLT-OHM-MIL-AMMETER

5 1/2" Instrument, adjusted to 50 microamperes at 250 millivolts. Has high flux magnet for increased ruggedness. Scale 4 3/8" at top arc. DC and DB are black on white. AC and ohm, red on white.

RANGES: DC Volts: 0-3-12-60-300-1200-6000 at 20,000 ohms/volt. AC volts 0-3-12 60-300-1,200-6,000 at 5,000 ohms/volt. Decibels —30, 4, 16, 30, 44, 56, 70; Microamperes: 0-6,0 Milliamperes 0-1.2-12-20; Amperes 0-12; Ohms 0-1,000-10,000; Megohms 0-1-100.

Model 630—Your Cost **\$50.65**
TERMS: \$12.66 Down, \$7.29 for 6 months.



WIDE RANGE VOLT-OHM-MIL-AMMETERS

Model 2405A—25,000 OHMS/V.



10 A.C. and D.C. Volt ranges; 10 A.C. and D.C. Current ranges; Four Resistance ranges; Decibel readings: —10 to —55db, and Output readings. All easily readable on the long 5.6" instrument scale. Engineered to assure simplicity of operation, extreme accuracy and precision reliability.

Where extreme sensitivity is required the 25,000 ohms per volt D.C. is recommended.

Fool-proof selector switch for all instrument ranges. Trouble-free, plug-in jack connections. "SQUARE LINE" Case, 10" x 10" x 5 3/4", attractively finished in tan enamel, is suitable for

counter or portable use with detachable, hinged cover and sturdy strap handle.

RANGES

D.C. Volts: 0-10-50 250 500-1000, at 25,000 ohms per volt

D.C. Amperes: 0 10, at 250 M.V.

D.C. Milliamperes: 0-1 10-50 250, at 250 M.V.

D.C. Microamperes: 0-50, at 250 M.V.

A.C. Volts: 0-10-50-250-500-1000, at 1000 ohms per volt

A.C. Amperes: 0-0.5-1-1-10, at 1 Volt-Ampere

Ohm-Megohms: 0-4000 40,000 ohms-0.4-40 megohms (self contained batteries)

Output: Condenser in series with A.C. Volts ranges

Decibels: +10 to +15, +29, +43 +49, +55

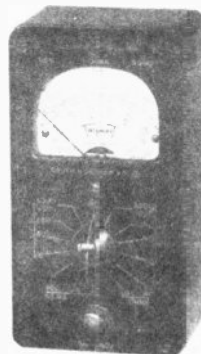
Condenser Test: Capacity check of paper condensers is possible by following data in instruction book.

Model 2405A—25,000 Ohms per volt. Your Cost **\$79.45**

TERMS: \$19.86 Down, \$10.89 for 6 months.

HANDY POCKET-SIZE A.C.-D.C. VOLT-OHM-MILLIAMETER

Model 666HH



Incorporates many of the testing capabilities of larger, more costly equipment, yet small enough to slip into a coat pocket. Just the instrument for servicemen, radio amateurs, industrial engineers, laboratory technicians, etc.

RANGES

A.C. D.C. VOLTS: 0-10-50 250 1000-5000, at 1000 ohms per volt D.C. Milliamperes: 0 10 100 500.

RESISTANCE: 0 2000-4000 ohms (12-2400 center scale.)

Selector Switch for all instrument readings. Black molded case and panel, completely insulated. Handy pocket size 3 1/4" x 5 3/8" x 2 1/8" deep.

LEATHER CARRYING CASE

Model 669 leather carrying case with snap on cover, sturdy strap handle, available on request.

Model 666-HH—Your Cost **\$25.00**

Model 668—Carrying case. Your Cost **6.65**

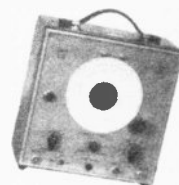
MODEL 2435

SIGNAL GENERATOR ADAPTER MARKER FOR FM-TV

With this new Signal-Generator adapter marker you can convert your present test oscillator into a modern wide sweep television and FM signal generator.

Provides variable FM sweep from 100 KC to 10 MC. Fixed frequency reactance modulated oscillator: 110 MC. Variable calibrated frequency oscillator 20-40 Mc. provides strong harmonics. 40-80 Mc and 60 120 Mc with fixed frequency oscillator. Size 10" x 10" x 5 3/4".

Model 2435—Your Cost: Price on application
TERMS: On application.

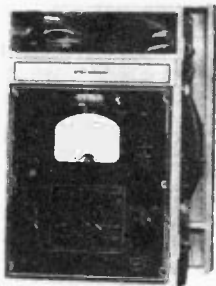


WE REPAIR ALL MAKES OF INSTRUMENTS

STARK

Fine Instruments

STARK



STARK

MODEL
KM

DE LUXE ANALYZER

20,000 OHMS
PER VOLT

MODEL KM

The Royal Member of the STARK Family

... known throughout the world wherever accuracy and reliability are paramount. This truly famous instrument is most versatile, easily understood and almost completely trouble-proof ... permanent sensitivity is assured by STARK 1% wire wound resistors. Everything within this sensitive analyzer is built to provide maximum accuracy with full convenience to the user.

7 D-C Voltage ranges: (at 20,000 ohms-per-volt) 2.5, 10, 50, 250, 500, 1000, 2500.

7 A-C Voltage ranges: (at 1,000-ohms-per-volt) 2.5, 10, 50, 250, 500, 1000, 2500.

6 Output Meter ranges: 2.5, 10, 50, 250, 500, 1000 A.C. volts.

7 DB ranges: -18 to +60.

4 Ohmmeter ranges: 4,000, 40,000, 400,000 ohms 40 meg.

3 Milliampere ranges: 1, 10, 100

2 Ampere ranges: 1, 10.

1 Microampere range: 100.

Meter: Stark Built 804 (50 Microamperes full scale.)

Panel: Natural bakelite.

Cabinet: Solid birch with special compartment for batteries.

Resistors: Precision wire wound and matched pairs to 1% tolerance.

Test Leads: Serviceable heavy duty STARK type TL4.

Dimensions: 14 1/8" x 10 1/2" x 5".

Weight: 10 lbs. net.

Your Cost \$78.80

Terms: \$19.70 Down payment. \$10.81 for 6 months.

MADE IN CANADA

CIRCUIT ANALYZER

MODEL TE-1

Most popular circuit analyzer ... built to highest STARK standards ... compact ... rugged ... one percent resistors throughout ... wide range zero adjust ... positive, permanent battery connecting clips eliminates soldered life-wasting connections when replacing with standard, always-obtainable batteries ... shipped complete with sturdy, "Everlasting", kink-proof, specially designed and exclusive STARK-made test leads.

Meter: STARK-built Model 804 meter.

5 D-C Voltage ranges: 0-10, 50, 100, 500, 1000.

5 A-C Voltage ranges: 0-10, 50, 100, 500, 1000.

3 Direct Current ranges: 0 - 5 - 50 - 500 milliamperes.

4 Resistance ranges: 0 - 3000 - 30,000 - 300,000 3 megohms with centre scale values of 40, 400, 4000 and 10,000 respectively.

5 Output ranges: -5 to +55 DB in 5 ranges where zero DB = .006 watt at 500 ohms.

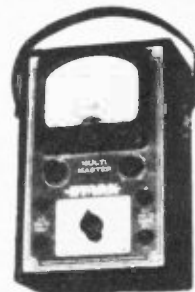
Dimensions: 8 3/8" x 5 3/8" x 3 1/2".

Weight: 3 lbs. 10 oz. net.

Your Cost \$41.80

MADE IN CANADA

STARK



MODEL
TE-1

PORTABLE ANALYZER

20,000 OHMS
PER VOLT

MODEL ES-1

To meet the need for a small portable analyzer of extreme accuracy, the STARK Model ES-1 "TESTMASTER" embodies many exceptional features ... JUMBO 5" easy-to-read meter ... extra 12 volt A.C. scale ... minimum number of controls for speedy use ... low center of gravity - meter can be used in upright position.

7 D.C. Voltage ranges: (20,000 ohms per volt) 3, 12, 30, 120, 300, 1200, 3000.

7 A.C. Voltage ranges: (1,000 ohms per volt) 3, 12, 30, 120, 300, 1200, 3000.

4 Milliampere ranges: 3, 30, 300 D.C. Mills - 0.3 D.C. Amps.

3 Ohmmeter ranges: 10,000, 100,000, 10 meg. Center scale: 100, 1000, 100,000.

3 DB ranges: -20 to +3, -8 to +17, -0 to +25.

Meter: STARK built Model 805.

Cabinet: Durable steel, finished in grey hammerloid.

Batteries: 1-4 1/2 V. C. Battery, 1-1 1/2 V.D. Cell.

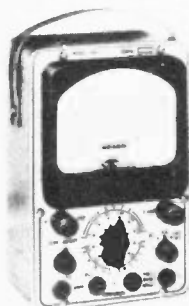
Dimensions: 9" x 5 3/4" x 3-3/16".

Weight: 5 lbs. 3 oz.

Your Cost \$58.80

Terms: \$14.70 Down payment. \$8.31 for 6 months.

MADE IN CANADA



STARK

MODEL
ES-1

STARK

Fine Instruments

STARK

"DYNAMIC" TUBE TESTER

MODEL 9-11

Simplest, Up-to-date, Lowest Priced Tube Tester on Market

ONLY 3 CONTROLS

1. Set Filament 2. Set Shunt 3. Set Selector
That's All There Is To It! — No Multitude of Complicated Controls and Switches to Manipulate . . . Saves Confusion and Time.

Tests all tubes — 1.4 volt to 117 volt including local, bantam, midget, single-ended, SPECIAL TYPES — Rogers-Majestic Spray Shield, etc.

Neon short test — hot filament type, picks out the most sensitive shorts between elements.

Filament indicator — instantly indicates if filament is burnt out or when it is properly heated for test.

Slide-control tube index — provides instant control settings, no chance of making a mistake.

Meter — STARK Built 604 with "Poor-Weak-Good" scale.

Pilot light test — instant condition of all pilot lights.

Dimensions: 11 1/4" x 9 3/8" x 5 1/4".

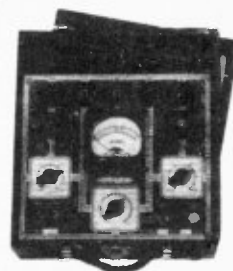
Weight: 8 lbs. net.

Your Cost, 25 or 60 cycle \$58.80

Terms: \$14.70 Down payment. \$8.31 for 6 months.

MADE IN CANADA

STARK



MODEL
9-11

COMBINATION TUBE TESTER & ANALYZER

MODEL 9-54T

"DE LUXE" TUBE TESTER

Tests all tubes — 1.4 volt to 117 volt including local, bantam, midget single-ended, SPECIAL TYPES — Rogers-Majestic Spray Shield, etc.

Neon short test — hot filament type, picks out the most sensitive shorts between elements.

Filament indicator — instantly indicates if filament is burnt out or when it is properly heated for test.

Slide-control tube index — provides instant control settings, no chance of making an error.

Line voltage — correct line voltage determined instantly.

Pilot light test — instant condition of all pilot lights.

"MULTI-MASTER" ANALYZER

Meter: STARK-built Model 804 meter.

5 D-C Voltage ranges: 0-10, 50, 100, 500, 1000.

5 A-C Voltage ranges: 0-10, 50, 100, 500, 1000.

3 Direct Current ranges: 0 - 5 - 50 - 500 milliamperes.

4 Resistance ranges: 0 - 300Ω - 30,000 - 300,000 3 megohms with centre scale values of 40, 400, 4000 and 40,000 respectively.

5 Output ranges: — 5 to + 55 DB in 5 ranges where zero

DB = .006 watt at 500 ohms.

Dimensions: 14 3/4" x 10 1/2" x 5".

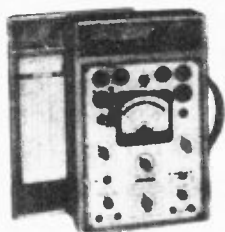
Weight: 13 lbs. net.

Your Cost, 25 or 60 cycle \$108.80

Terms: \$27.20 Down payment. \$14.62 for 6 months.

MADE IN CANADA

STARK



MODEL
9-54T

DE LUXE TUBE TESTER

MODEL 9-55

Model 9-55 incorporates a most advanced STARK circuit assuring accuracy of test in the simplest possible manner.

ONLY 3 CONTROLS

1. Set Filament 2. Set Shunt 3. Set Selector
No Multitude of Complicated Controls and Switches to Manipulate . . . Saves Confusion and Time.

Tests all tubes — 1.4 volt to 117 volt including local, bantam, midget single-ended, SPECIAL TYPES — Rogers-Majestic Spray Shield, etc.

Neon short test — hot filament type, picks out the most sensitive shorts between elements.

Filament indicator — instantly indicates if filament is burnt out or when it is properly heated for test.

Battery test — tests all dry batteries under "Load".

Neon continuity test — for lamps, appliances, etc.

Slide-control tube index — provides instant control settings, no chance of making a mistake.

Large meter — STARK Built 804 with "Poor-Weak-Good" scale.

Pilot light test — instant condition of all pilot lights.

Line voltage — correct line voltage determined instantly.

Dimensions: 14" x 12" x 5 1/2".

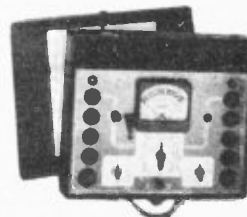
Weight: 11 lbs. net.

Your Cost, 25 or 60 cycle \$78.80

Terms: \$19.70 Down payment. \$10.81 for 6 months.

MADE IN CANADA

STARK



MODEL
9-55

STARK

Fine Instruments

STARK

RF SIGNAL GENERATOR

MODEL 10 A

A phenomenal feature of this signal generator is its accuracy of less than 1% with a frequency drift of less than 1/20th of 1%. Another highly important feature is the direct reading dial calibrated from a low of 95 KC to a high of 144 MC in 7 distinct bands with a total scale length of 130 inches.

Radio Frequency Ranges:

95—230 KC. 4.4—12 MC.
230—600 KC. 12—30 MC.
600—1600 KC. 30—72 MC.
1.6—4.4 MC. 72—144 MC.

Maximum Output 100,000 Microvolts

on radio frequencies: Calibrated low impedance attenuator system permits gain and sensitivity measurements to be made on receivers.

Modulated R.F. Output:

The modulating frequency is 400

cycles per second and the RF signal is modulated approximately 30%.

Audio Frequency Output: The maximum output is approximately one volt — can be used for gain and sensitivity measurements in any audio circuit.

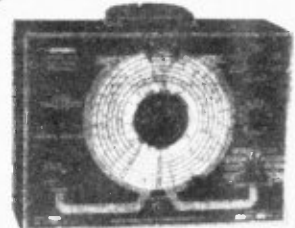
Total Scale Length Over 130". Units Individually Shielded.

Dimensions: 15" x 11 1/4" x 6 1/4". **Weight:** 20 lbs. net.

Your Cost, 25 or 60 cycle. \$98.00

Terms: \$24.50 Down payment. \$13.25 for 6 months.

STARK



MODEL
10-A

MADE IN CANADA

VACUUM TUBE VOLTMETER

MODEL TA-1

Indispensable wherever fine, sensitive measurements are required. STARK Model TA-1 embodies all the experience and know how for on the button analysis. Impossible to damage meter when making voltage tests. Low voltage used in capacitance measuring circuit permits measurements of capacitors from 1 mmf to 1000 mmf. The D-C test probe has insulating resistor of 3 megohms, which eliminates capacity loading on the circuit when making D-C voltage measurements.

Scales: Volts Mils: 0-3, 0-12, 0-5 volts A-C Only 0-3.

Ohms: 0-10,000 - Inf.

Capacity: mmf - 0-1000 - Inf. mf - 0-10 - Inf.

6 A-C Volt ranges: 0-3, 12, 30, 120, 300, 1200.

6 D-C Volt ranges: 0-3, 12, 30, 120, 300, 1200.

6 D-C Mill. ranges: 0-3, 12, 30, 120, 300, 1200.

Capacity: 0-10,000 mmf in 2 ranges, 0-1,000 mf in 5 ranges.

Ind.: 50 mh-100 henries.

Ohms: 1.0 ohm to 10,000 megohms in 7 ranges.

Frequency: A-C up to approx. 5 megacycles.

Input Impedance: D-C Volts—15 megohms, A-C Volts—12 megohms.

Dimensions: 10 1/2" x 11 1/2" x 6". **Weight:** 12 1/2 lbs. net.

Your Cost, 25 or 60 cycle. \$98.00

Terms: \$24.50 Down payment. \$13.25 for 6 months.

STARK



MODEL
TA-1

MADE IN CANADA

STARK ADAPTERS

You can now adjust your instrument so as to be able to test certain of the newer tubes, by using the Stark Adapters.

"W" For tube types 6AQ5, 35W4, 50B5, 11Z3. Your Cost. \$1.75

"X" For tube types 6AG5, 6AK5, 6AK6, 6AT6, 6BA6, 6BE6, 6C6, 6J6, 12AT6, 12BA6, 12BE6, 9001, 9002, 9003, 9006. Your Cost. \$1.75

"Y" For tube types 11A4, 3A4, 3S4, 45Z3, 3Q4. Your Cost. \$1.75

"Z" For tube types 955, 956, 957, 958, 9005. Your Cost. \$1.75

All adapters are placed into Standard Octal Sockets. \$4.00

BUY NOW—PAY LATER!

STARK INSTRUMENTS ON ATTRACTIVE TIME PAYMENTS

That is the way our easy time plan works. You make profits first and with these profits pay for your tester. It is practical and simple.

Any test equipment over \$50.00 can be purchased on our easy time payment plan. Why not act now and cash in on radio servicing and take sales.

Write for particulars to-day.



WE REPAIR ALL MAKES OF TEST EQUIPMENT

STARK

Fine Instruments

STARK

VOLT - OHM - MILLIAMMETER 5,000 OHMS PER VOLT



STARK Model SD-1 knows no equal. Nothing is sacrificed with this "pocket size" unit. Sturdy, shock-proof, exclusive, made by **STARK** heavy bakelite case . . . positive, permanent battery, connecting clips eliminating soldered lugs when replacing with standard, always obtainable batteries. One percent resistors throughout.

5 D-C Voltage ranges: 0-6, 30, 150, 600, 1500.

5 A-C Voltage ranges: 0-6, 30, 150, 600, 1500.

4 Direct Current ranges: 0 - .3 - .3 - 30 - 300 Milliamperes.

4 Resistance ranges: 0-2,000 - 20,000 - 200,000, 2 megohms, with centre scale readings of: 22.5 - 225 - 2,250 - 22,500 ohms respectively.

Dimensions: 6 1/8" x 3 1/4" x 2 3/4".

Weight: 2 lbs. 4 oz. net

Your Cost **\$32.80**

VOLT - OHM - MILLIAMMETER 1,000 OHMS PER VOLT



A quick accurate check agent where A.C. voltages are not involved and where sensitivity of 1,000 ohms-per-volt is ample. **STARK Model AF-2** fills a definite want. Built to the same specifications as the Model SD-1 as to shock-proof case, battery method, one percent resistors and test leads.

4 D-C Voltage ranges: 15, 150, 750, 1500.

3 Direct Current ranges: 1.5, 15, 150 Milliamperes.

2 Ohmmeter ranges: 3000, 500,000.

Meter: STARK Built 604.

Dimensions: 6 1/8" x 3 1/4" x 3 1/4".

Weight: 1 lb. 12 oz. net.

Your Cost **\$24.80**

BATTERY TEST VOLTMETER



Designed after consultation with engineering departments of Canada's leading battery makers . . . Model 197 provides the best and most accurate tests possible of all battery conditions. Under "LOAD" conditions, the battery is shunted to give a current drain which is approximately equivalent to the normal load for the battery under test . . . under

"NO LOAD" the actual output voltage is measured with the battery subjected to practically no current drain.

Ranges: 2 Volt - 10 Volt - 100 Volt.

Cabinet: Shock-proof heavy Bakelite case with permanently attached set of test leads.

Dimensions: 6 1/8" x 3 1/4" x 3 1/4".

Weight: 1 lb. 4 oz.

Your Cost **\$20.00**

MODEL
SD-1

MADE IN CANADA

MODEL
AF-2

MADE IN CANADA

MODEL
197

MADE IN CANADA

HICKOK Radio Service Equipment

**PRECISION—
CALIBRATED
LASTING—
ACCURACY**

TUBE TESTERS

Portable Model 532-P and 532-C Counter Dynamic Mutual Conductance (Transconductance) Tube Testers

Own a Dynamic Mutual Conductance Meter For Better Accuracy . . . **EASY TO OPERATE**

The three principal characteristics of a vacuum tube are:

1/ Amplification factor.

2/ Plate resistance.

3/ Mutual Conductance (Transconductance)

Duplicates the method actually used by tube manufacturers in the tube factory. Rejects more bad tubes. Easy to read scales have MICROMMHO ranges of 0-3,000.

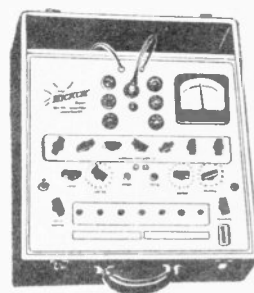
"Doubtful" and "Good". Meter highly sensitive noise test detects radio frequency disturbances. Locates shorts hot or cold. Tests diodes separately with low voltage. Indicates accurately line voltage from 100 to 130 volts. Tests all present day tubes including Octal, Loktal, Miniature, Ballast and Magic Eye Tubes. Provision for new tube is made—this tester will remain up to date.

Uses rectified current to energize both plates and grids using two rectifiers. Has filament voltage in steps to 117 volts. Selector switches complete flexibility. Roll chart in the PANEL makes tube data easy and quickly AVAILABLE. Tests grid controlled rectifier tubes. Continuity checks can be made by a special new feature of design. Size 17" x 8 1/2". Weight — 27 lbs.

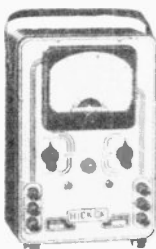
SATIN CHROME FINISH

Model 532-P—50 cycles Portable Type Your Cost **\$172.80**. 25 cycle Your Cost **\$197.80**. Terms: 25% Down.

Model 532-C—60 cycles Counter Type Your Cost **\$172.80**. 25 cycle Your Cost **\$197.80**. 6 months for Balance.



Model 532-P or 532-C



Model 900

VOLT-AMPERE, WATTMETER "A-C" MODEL 900 ANALYSER—FINEST MINIATURE INSTRUMENT

ELECTRICAL FEATURES: Electrical Appliance Tester and Circuit Analyzer 3 1/2" SCALE has been designed for all: A.C. appliance testing transformers, clocks, etc. to electric ranges operating on the 220 volt two wire Edison system. The number 9A and 9B special leads are available with standard three wire range connector. Indicates wattage, consumption, amperes and line voltage. The circuit consists of an electrodynamic movement wattmeter used in conjunction with any external especially designed current transformer C-105. The instrument is intended for single phase use, but may be used on polyphase circuits by testing one phase at a time. Mounted in steel case has wear proof metal panel with markings embossed. It may be used around heavy, current-carrying conductor without danger of stray field errors. Detachable leads, with male and female ends are furnished with each instrument for testing small appliances.

Part No. C-105. This external current transformer is designed to give ranges of 5,000 and 10,000 watts and 65V and 130 amperes when used with Model 900. When transformer and carrying case are ordered together, transformer will be installed before shipping.

RANGES: A.C. MILLIAMPERES 0-260
A.C. AMPERES 0-13-6.5-13-26
A.C. VOLTS 0-130-260
A.C. WATTS 0-20-100-500-1000-2000

Model 900 Your Cost **\$79.75**

C-105 Transformer Your Cost **17.80**

Terms: 25% Down: 6 months for Balance.

WRITE FOR COMPLETE CATALOGUE OF HICKOK EQUIPMENT



Radio Service Equipment

Precision Calibrated — Lasting Accuracy



OSCILLOGRAPHS

THE ONLY COMPLETE 5" CATHODE RAY OSCILLOGRAPH

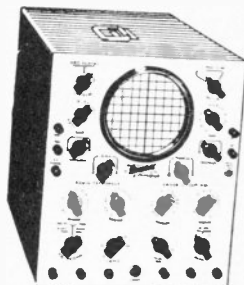
Exclusive Model 505

- 1/ Wide and narrow band F.M. Oscillator.
- 2/ Wide band vertical amplifier to 1 megacycle.
- 3/ 3 range frequency compensated attenuator network.
- 4/ Demodulator—permits only modulated R.F. Signal to be viewed.
- 5/ Return eliminator—Speeds up F.M. and A.M. alignment.
- 6/ Modulation circuit—Permits the F.M. Oscillator to be either internally modulated or from an external source such as phonograph pick up, or microphones.

OUTSTANDING . . .

Because you can!

- 1/ Generate a F-M Signal.
- 2/ Align I.F. and R.F. transformers and discriminator circuits.
- 3/ Trace a signal through a receiver.
- 4/ Check for gain.
- 5/ Quickly determine causes of trouble in receivers.



TECHNICAL CHARACTERISTICS

5UP1—5" Cathode Ray Tube

Deflection Sensitivity:

- a. Vertical: 0.09 volts (rms) / inch
- b. Horizontal: 0.2 volts (rms) / inch
- c. Horizontal, Direct: 15 volts (rms) / inch

Input Impedance:

- a. Vertical: 1 megohm, 25 mmf
- b. Horizontal: 4 megohm, 25 mmf
- c. Horizontal, Direct: 3 megohm

Model 505—60 cycles. Your Cost \$241.65
25 cycles. Your Cost 271.65

60 cy. TERMS: \$60.41 Down, \$31.67 for 6 months.

25 cy. TERMS: \$67.91 Down, \$35.54 for 6 months.

"GENERAL PURPOSE" 5 INCH OSCILLOGRAPH . . .

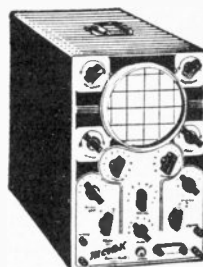
Model 195

FEATURES:

- 1/ Big 5" screen—using the new 5 UP-1 Cathode Ray Tube.
- 2/ Extra high gain vertical amplifiers.
- 3/ Sinusoidal sweep circuit.
- 4/ Phasing control for proper I.F., R.F. and discriminator.

YOU CAN!

- 1/ Align I.F. transformers.
- 2/ Determine causes of trouble in a receiver.
- 3/ Analyze wave shape of signal.
- 4/ Determine unknown frequencies.
- 5/ Easily view the images on the screen.
- 6/ Amplify and view very weak signals.



The Model 195, 5" Cathode Ray Oscilloscope and The Hickok 288X Crystal Generator make a splendid combination for dynamic visual analysis and alignment of television, "F.M." and "A.M." Receivers.

TECHNICAL CHARACTERISTICS

3/ Deflection Sensitivity, (RMS

per inch):

- a. Vertical—.05 volts (rms) / inch
- b. Vertical, Direct—15 Volts (rms) / inch
- c. Horizontal—.15 Volts (rms) / inch
- d. Horizontal, Direct—20 Volts (rms) / inch

4/ Input Impedance:

- a. Vertical—1 meg, 25 mmf

b. Vertical, Direct—2.2 meg

c. Horizontal—4 meg, 35 mmf

d. Horizontal, Direct 2.2 meg

5/ Frequency Range:

Amplifier, Vertical—30 cycles

to 50 kc

Amplifier, Horizontal—10 cycles

to 50 kc

1/ Power Supply Required: 105-

125V, 50-70 cycles A.C.

2/ Power Consumption 50 watts at

115 volts

MODEL 195—60 cycles. Your Cost \$178.20

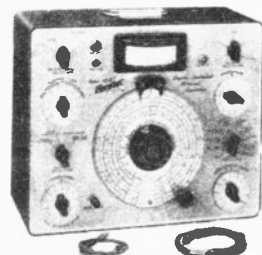
MODEL 195—25 cycles. Your Cost 208.20

60 cy. TERMS: \$44.55. Down, \$23.49 for 6 months.

25 cy. TERMS: \$52.05. Down, \$27.49 for 6 months.

WRITE FOR ILLUSTRATED CATALOGUE DESCRIBING ALL HICKOK MODELS

MODEL 191X CRYSTAL CONTROLLED MICROVOLT SIGNAL GENERATOR



An internal vacuum tube voltmeter of radio frequency output from 1 microvolt to 100,000 microvolts, on all frequency ranges.

The use of this meter as an external decibel meter for power determinations. Made for measuring the input and output levels of the unit under test.

External modulation from 5 to 10,000 cycles. Variable. The 100 kc and 1000 kc crystal controlled output. At 100 kc harmonics will provide signals for the broadcast band every 100 kc, at 1000 kc, every megacycle for the short-wave band; accuracy 0.01%.

Technical characteristics—Variable R-F oscillator frequency in 8 ranges—from 125KC to 240MC.

Crystal controlled R-F oscillator frequency range:

- a. 100 kc (harmonics to over 15 mc)
- b. 1000 kc (harmonics to over 125 mc)

A-F Oscillator (Modulator) Frequency: 40 cycles

Output voltages: R.F., A-F

A-F: Variable 0-2 volt, maximum

b. Pure R-F: variable 0-100,000 microvolts

c. Modulated R-F: variable 0-100,000 microvolts

Accuracy of Calibration:

- a. Variable R-F Oscillator: 1%, on all ranges
- b. 100 kc and 1000 kc Crystal Controlled Oscillator: 0.01%
- c. 400 cycle A-F Oscillator 10%

MODEL 191X, 60 cycles. Your Cost \$216.00

25 cycles. Your Cost 231.00

60 cy. TERMS: \$54.00 Down, \$28.34 for 6 months.

25 cy. TERMS: \$57.75 Down, \$30.25 for 6 months.

Modulation:

- a. 30%, approximately, at 40 cycles, fixed
- b. 0-70%, at 400 cycles, variable
- c. External Modulation, variable

Output impedances:

- a. 0-to 10 microvolts at 5.6 ohms
- b. 0-to 100 microvolts 5.6 "
- c. 0-to 1000 microvolts 5.6 "
- d. 0-to 10,000 microvolts 20 "
- e. 0-to 100,000 microvolts 0-100"

Meter ranges:

- a. Decibels: -10 to 6, 6 to 22, 22 to 38

b. Special calibration points, A and B, provided for the self-contained vacuum tube voltmeter for setting the level of the r-f input to the attenuator

c. % Modulation: 0-70%



MODEL 288X UNIVERSAL CRYSTAL CONTROLLED SIGNAL GENERATOR

FEATURES: As frequency modulation and television become more common in the home, the need for new servicing techniques and new test equipment will increase accordingly. HICKOK, anticipating this need, has developed the Model 288X Universal Crystal Controlled Signal Generator. **Universal coverage—to 110 mc, on fundamentals—crystal-controlled outputs—self-contained decibel meter—technical characteristics.**

Power Supply Required: 105-125V, 50-70 cycles, a-c. Other voltages and frequencies available at slight additional cost.

Dimensions 14" x 16½ x 8"

WEIGHT 28 lbs.

PANEL: Satin-Chrome Finish

CASE: Blue Baked Lacquer Finish

Power consumption: 20 watts at 115 volts

Amplitude modulated-pure R-F frequency ranges: 100 KC to 110 MC

a. A Band 100-300 kc

b. B Band 300-850 kc

c. C Band 850-2200 kc

d. D Band 2.2-6.5 mc

e. E Band 6.5-20 mc

f. F Band 20-50 mc

g. G Band 50-110 mc

Frequency modulated R-F Frequency ranges:

a. Narrow Band (0-30 kc Sweep) 100 kc to 110 mc in 7 ranges

b. Wide Band (0-150-450-kc Sweep) 1 mc to 160 mc in 7 ranges

External modulation:

A-F RANGE: Fixed at 400 cycles.

Variable from 0 to 15,000 cycles

Crystal controlled output:

Models 277X and 288X only

a. 100 kc, Unmodulated: to 15 mc (harmonics)

b. 100 kc 400 cycle Amp. Mod. to 15 mc (harmonics)

c. 1000 kc, Unmodulated: to 15 mc (harmonics)

d. 1000 kc, 400 cycle Amp. Mod. to 125 mc (harmonics)

Output: R-F continuously variable with steps X1, X10 and X100 A-F continuously variable, 400 cycle and 0-15 kc

DB Meter Range: 10 to 6, 6 to 22, 22 to 38, Model 288X only

Your Cost

MODEL 288X 60 Cycles. . . \$228.40

25 Cycles. . . 243.40

60 cy. TERMS: \$57.10 Down,

\$29.93 for 6 months.

25 cy. TERMS: \$68.85 Down,

\$31.89 for 6 months.

BUY TEST EQUIPMENT ON OUR EASY TIME PAYMENTS

Quality TESTING Instruments

THE WATERMAN POCKETSCOPE

MODEL S-11-A

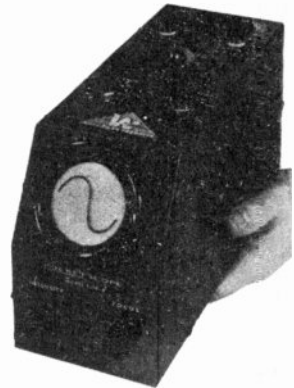


Industrial and television oscilloscope for radio and industrial electronic servicing as well as for educational applications. COMPACT . . . 7" high . . . 5" wide . . . 11" deep. LIGHT . . . only 8 3/4 lbs . . . COMPLETE . . . measures AC and DC with sensitivity better than 100 mv RMS/inch with fidelity within . . . 2 db from 0 to 200 kc; linear sweep from 3 cycles to 50 kc; blanking of return trace; intensity amplifier . . . direct connection to plates . . . low input isolated from case-retractable light shield . . . leather handles . . . detachable graph screen. Using a 3MP1 Cathode ray tube.

Complete details sent on request.

No. S-11-A—60 cycle Your Cost \$138.60

MODEL S-10-A



General purpose oscilloscope for servicing and educational applications. COMPACT . . . 6 3/4" high, 4" wide and 10" deep. LIGHT . . . only 5 3/4 lbs . . . COMPLETE. Sensitivity better than 1 V RMS/inch with fidelity within . . . 2 db from 20 cycles to 100 kc . . . linear time sweep from 10 cycles to 50 kc . . . direct connection to deflection plates . . . retractable light shield. Using a 2 AP1A cathode ray tube.

Complete details sent on request.

No. S-10-A—60 cycle Your Cost \$84.75

BLILEY—CRYSTAL CONTROLLED OSCILLATOR Model CCO-1C



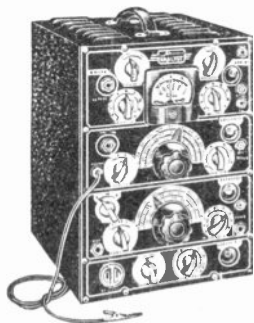
Range 150 to 6000 Kc
The Bliley CCO-1C . . . crystal controlled oscillator is a test equipment for radio service technicians. Each signal is directly controlled by an individual crystal with instant selection of the five most commonly used intermediate frequencies — 175 kc, 262 kc, 370 kc, 455 kc and 465 kc.
DIRECT CRYSTAL CONTROL at 200 kc for r-f alignment and at 1000 kc for short wave alignment. There is an external socket for addition of special frequencies, a three position modulation selector and a five step attenuator with vernier

output control from 0 to 7 volts. Operates on 110 volts a-c or d-c. Special units can be supplied for operation on 220 volts. Special units are also available with crystals at any specified frequency in the range 150 to 6000 kc.

MODEL CCO-1C—Your Cost \$89.50

SERVICING BY "SIGNAL TRACING"

COMPLETE— READY TO GO TO WORK



The new Meissner ANALYST is completely wired, aligned and laboratory tested. Furnished complete with a full set of 12 tubes, it is all ready to be put into service the minute it is unpacked and connected to the 110-volt line! No alignment or adjustments are necessary—just read the instructions, hook it up and go to work!

OUTSTANDING FEATURES

Faster—More Profitable Servicing
Locates Faults by "Signal Tracing"
Every Channel on a Separate Panel
All controls Fully Calibrated
Shielded Test Cables and Prods
All Terminals on Front Panel
New 4-Range Electronic Voltmeter
Wide-range Audio Test Channel
Oscillator Trouble-Shooter Channel
95-1700 kc RF-IF Channel

Line Current Indicator Channel
Measures Gain, Stage by Stage
Locates Intermittent Faults Faster
Checks Alignment of Receivers
Pays for itself in Faster Service
Voltmeter Input is 10,000,000 ohms
All Channels May be used at once
Uses Four Electron-Ray Indicators
Operates on 110-volts, 60-cycles
Portable—Convenient to use

Your Cost \$142.50

THE CAPOHMIST

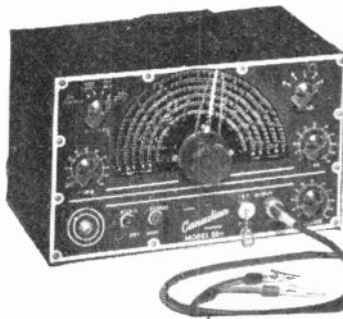
Capacitor and Resistor Substitution Unit

Astonishingly simple to operate. No need to replace each individual Resistor or Capacitor in diagnosing radio trouble. The Capohmist provides substitution of 22 principal values. The operator merely locates the proper values on the dial . . . then clamps ends of lead wires from Capohmist to the proper points in the circuit to see if the indicated part is operating or defective. Additional jobs can be handled easily, more satisfactorily. Sturdily built of metal, lightweight, attractive and with a handle for more comfortable carrying.



Your Cost \$23.75

CANADIAN SIGNAL GENERATORS



This new, compact Canadian Signal Generator is designed down to the most minute detail to give you highest accuracy, greater stability, minimum leakage, and good wave-form. Five R.F. coils provide ranges of:—135-460; 440-1500 kilocycles, and 1.3-4.7; 4.0-13; 10-40 megacycles, with harmonics to 120 Mc. Accuracy $\pm 1\%$.

Four types of signal can be produced:—(1) Unmodulated R.F. (2) 400 cycle modulated R.F. (3) externally modulated R.F. (4) 400 cycle sine wave audio.

Variable modulation control from zero to 100%. Variable from zero to 100%.

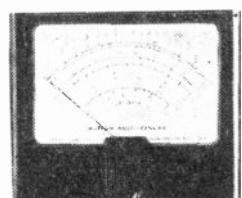
audio output from zero to 70 volts. "High" and "Low" output connectors.
Model S. G. 1 Your Cost \$57.75

MARION MULTI-RANGER

Designed to permit the user to assemble a highly accurate instrument for use as a voltmeter, milliammeter, high and low resistance ohmmeter, AC voltmeter and decibel meter. All instruments use alnico magnets and have full 100° three-color scales. Basic sensitivity 400 microamps. Size 8 1/2".

Scale Ranges as Normally Supplied			
Volts	Milli-AC-DC amperes	Ohms	Decibels
0-10	0-1	0-500 Ohms	-10—+14
0-50	0-10	0-100 M	-4—+28
0-250	0-50	0-1 Meg.	+18—+42
0-1000	0-500	0-10 Meg.	+30—+54

Model 57-S Multi-Ranger.
Your Cost \$19.00



Model 57S

★ Simpson

INSTRUMENTS THAT STAY ACCURATE

MADE IN CANADA

MODEL 315 Signal Generator

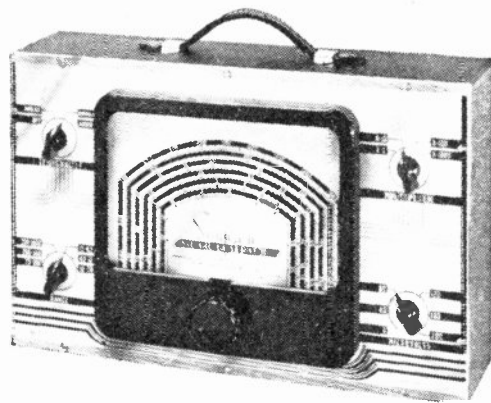
The Model 315 Signal Generator is designed down to the most minute detail for highest accuracy, greatest stability, minimum leakage and good wave form. Big nine-inch meter type dial, with knife edge pointer, gives high readability. Smooth vernier control permits close settings.

CIRCUIT: Electron coupled circuit assures extreme stability and output uniformity throughout the band. Three tubes are utilized in the circuit—full wave rectifier, modulator and oscillator. Standard 30% modulation at 400 cycles is used.

OUTPUT: Signal is controlled through an ingenious step attenuator of the ladder type. Volume level of each step is regulated by a smooth non-inductive control which provides an RF output from $1\frac{1}{2}$ microvolt to 0.1 volt and an approximately 400 cycle output from zero to 5 volts.

BANDS: Six RF coils provide ranges of 75-200; 200-600; 600-1700 kilocycles and 1.5-4.5; 4-12; 10-30 megacycles. Coils designed to retain original inductance regardless of temperature or humidity changes. Special switch automatically eliminates "dead spots."

SIZE: 16" x 10" x 6" **WEIGHT:** 15 lbs. C.S.A. approved 25-60 cycle.



MODEL 315—Your Cost..... \$94.50

Terms: **\$23.63** down—**\$12.78** for 6 months.

MODEL 305 TUBE TESTER

Attractive appearance, compactness and remarkable versatility are combined in this popular tube tester. It provides for filament voltages from .5 volts to and including 120 volts. It tests local, single ended tubes, bantams, midjets, miniatures, ballast tubes, gaseous rectifiers, acorn tubes, Christmas tree bulbs and all popular receiver tubes.

The 3-way switching makes it possible to test any tube regardless of its base connections or the internal connections of its elements. No adapters or special sockets are required. Has sockets for all tubes on the market, plus spare socket for future tube developments. It provides for line adjustment from 100 to 130 volt; with smooth vernier control.

The Model 305 has a handsome, conveniently arranged panel, and is housed in an attractive leatherette carrying case. The large fan shaped meter provides an exceptionally long scale, which has both "good" and "bad" English markings, plus a percentage scale for matching and comparing tubes. Simplified instructions and tube charts in book form are carried in cover. C.S.A. approved 25-60 cycle.

Model 305RC with Simpson "No Back Lash" Roll Chart. Model 305..... Your Cost \$69.95

Terms: **\$17.49** down—**\$9.70** for 6 months.

Model 305RC..... Your Cost \$79.95

Terms: **\$19.99** down—**\$10.95** for 6 months.



Size: 8" x 10 $\frac{3}{4}$ " x 5 $\frac{1}{2}$ "

Weight: 8 lbs.

THE MICRO-LAB JUNIOR

MICRO-LAB RANGES—

D.C. Volts (1,000 ohms per volt) 3/15/75/300

D.C. Volts—(20,000 ohms per volt) 3/7.5/15/30/75/150/300/750/1500/3000

D.C. Microamps—300/750

D.C. Mils—1.5/3/7.5/15/30/75

D.C. Mils—7.5/15/30/75/150/300/750/1500

Ohms—(Centre Scale): 7 ohms—RX1) 500/5000/50,000/5 Meg. 5 Meg. 50 Meg.

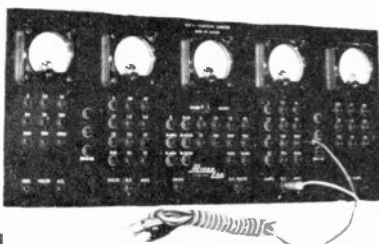
D.C. Amps—3/7.5/15/30

A.C. Volts—(1,000 ohms per volt) 3/7.5/15/30/75/150/300/750/1500

A.C. Mils—75/150/300/750

A.C. Amps—1.5/3/7.5/15/30

A.C. Output 3/7.5/15/30/75/150/300/750/1500



For the advanced serviceman, experimenter, or for the laboratory, there is nothing finer than the MICRO-LAB JUNIOR. With a total of 67 ranges available on 5 separate instruments, it is a complete service laboratory in miniature. It is designed to mount over a bench or on a standard 19" rack. Beautiful in appearance, with a black satin anodized panel, it is also available in a natural finish carrying case. Complete with test leads, and a detailed instruction manual giving the operating characteristics of each instrument.

JUNIOR LAB—Your Cost..... \$122.50

With natural finish carrying case. Slight extra charge

Terms: **\$30.63** down—**\$16.36** for 6 months.

SET TESTER

World-Famous High Sensitivity for Radio and Television Servicing

RANGES—(20,000 ohms per volt D.C.) (1,000 ohms per volt A.C.). Volts A.C. and D.C. and output: 2.5, 10, 50, 250, 1000, 5000, Milliamperes, D.C.: 10, 100, 500. Microamperes, D.C.: 100. Amperes D.C.: 10. Decibels: (5 ranges)—10 to +52 D.B. Ohms: 0-2000 (12 ohms center). 0-200,000 (1200 ohms center). 0-20 Megohms (120,000 ohms center).

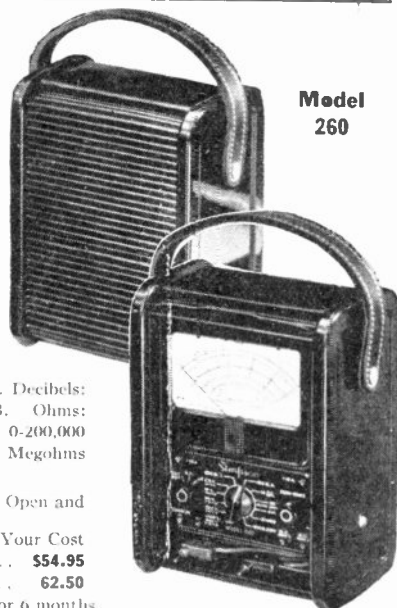
As illustrated: Roll top Case Open and Closed.

Your Cost

Less Roll Top..... **\$54.95**

With Roll top Safety Case..... **62.50**

Terms: **\$15.63** down—**\$8.79** for 6 months.



Model 260

DO NOT SPLIT YOUR ORDERS - SAVE TRANSPORTATION CHARGES

★ Simpson

INSTRUMENTS THAT STAY ACCURATE

MADE IN

CANADA

A name that stands for lasting accuracy in panel instruments. Entirely produced in Canada, in all ranges and case sizes.

DIRECT CURRENT MICROAMMETERS

RANGE	YOUR COST MODELS		
	126-127	26	29
0-25		\$28.00	\$30.00
0-50	\$22.80	24.25	26.00
0-100		18.27	19.00
0-200		16.00	16.83
0-500		11.50	12.20

DIRECT CURRENT MILLIAMMETERS

RANGE	0-1, 3	0-5, 10, 25, 50, 100, 200, 300, 500, 750
	\$9.13 \$10.07 \$11.60	7.54 8.47 10.40

DIRECT CURRENT AMMETERS

RANGE	1-5, 3, 10, 25, 50
	\$7.54 \$8.47 \$10.40

DIRECT CURRENT VOLTMETERS

RANGE	0-3, 8	0-5, 15, 25, 50, 100
	\$ 8.47 \$10.40	\$ 7.54 8.47 10.40
(100 ohms/volt)		
0-50 (1000 ohms/volt)	11.60	12.40
0-100 (1000 ohms/volt)	12.10	12.50
0-200 (1000 ohms/volt)	12.20	13.00
0-500 (1000 ohms/volt)	15.47	16.00
0-1000, 1500, 2000, 2500, 3000, 4000	16.50	18.50

ALTERNATING CURRENT AMMETERS

RANGE	0-1, 1.5, 2, 3, 5, 10, 15
	\$7.54 \$ 8.47 \$10.40
0-25	7.87 8.73 11.80
0-75, 100, 200, 300, 500	8.47 10.40

NOTE:—Current Transformers required on all ranges 75 amps and up. Net \$10 each.

ALTERNATING CURRENT MILLIAMMETERS

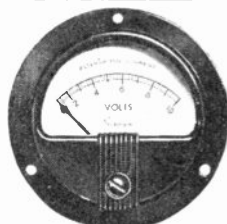
RANGE	150-157	56	59
0-10, 25, 100, 500	\$ 8.47	\$10.40	



1" Models 29, 39, 49, 59.
4 3/8" x 4 5/8". Body Diam. 2 3/4".

3 1/2" Models

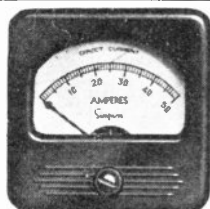
26
36
46
56



2 1/2" Models

126
136
146
156

3" Style. Flange Diam. 3 1/2". Body Diam. 2 3/4".
2" Style. Flange Diam. 2". Body Diam. 2 3/8".



2" Models 127, 137, 147, 157

2" Style: 2 3/8" square. Body Diam. 2 3/8".

ALTERNATING CURRENT VOLTMETERS

RANGE	YOUR COST MODELS		
	156-157	56	59
0-1, 5, 3		\$ 8.47	\$10.40
0-5, 25, 50, 100	\$ 7.54	8.47	10.40
0-150	9.33	10.07	11.97
0-300 (Internal multiplier)		11.60	12.20
0-500 (External multiplier)	13.90	14.73	15.73
0-750 (External multiplier)		17.00	18.77
0-1000 (External multiplier)		21.50	23.00

R. F. AMMETERS

RANGE	136-137	36	39
0-1, 1.5, 2, 3, 5	\$8.47	\$9.17	\$10.84

POWER LEVEL INDICATORS

General purpose: 10 to 6 D.B. 500 ohm line

IMPEDANCE	146-147	46	49
2500 ohms	\$13.77	\$14.50	\$16.50
5000 ohms	17.96	18.17	20.17

NOTE:—Special high or low speed instruments available. Details on request. New type V. U. Instruments available.

RECTIFIER TYPE A.C. VOLTMETERS

RANGE	0-1, 5, 15, 50, 100 (1000 ohms/volt)
	\$17.87 \$19.97
0-150 (1000 ohms/volt)	19.33 21.33
0-300 (1000 ohms/volt)	20.27 22.27
0-1, 5, 15, 50, 100 (2000 ohms/volt)	20.27 22.27

EXTERNAL SHUNTS D.C.

(Output 50 Millivolts)	75, 100, 150, 200 Amps.
	\$ 7.00
250, 300 Amps.	7.93
400 Amps.	10.23
500 Amps.	12.43
750 Amps.	17.80
1000 Amps.	22.40

For Price of Instrument to match add prices shown under "D.C. Ammeters"

A.C. AND D.C. VOLT-OHM-MILLIAMMETER Model 240 Hammeter

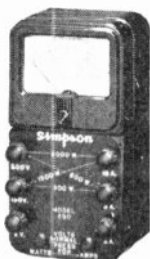
RANGES—0-15, 150, 750, 3000 A.C. volts; 0-15, 75, 300, 750, 3000 D.C. volts; 0-15, 75, 300, 750 D.C. milliamperes; 0-3000 ohms (center scale 30), 0-300,000 ohms (center scale 3000); 1000 ohms per volt A.C. and D.C. Completely self-contained, needing no external multipliers, with a sensitivity of 1000 ohms per volt and a maximum voltage of 3000 volts A.C. or D.C. it has all the variety of useful ranges needed to do an all around general service job. Your Cost..... \$29.95

Model 390 A.C. Volt-Amp-Wattmeter.

The Model 390 is the newest thing in appliance testing, covering two ranges each of voltage, current and four ranges of watts. It can be used for refrigeration, air conditioning, oil burner installations—anywhere a motor is used. Voltage readings are shown in a normal position; ampere and wattage readings are obtained by depressing buttons on a panel. A special break-in appliance plug is furnished for connecting to the electrical outlet. CASE: Has molded bakelite, white engraved letters on the panel, full 3" meter.

RANGES—A.C. Circuits

Volts: 0-150, 0-300.
Amperes: 0-3, 0-15.
Watts: 0-300, 0-600, 0-1500, 0-3000.
Size: 3" x 5" x 2". Weight: 2 Lbs.
Dealer Net..... \$53.50



MODEL 77 THE NEWEST THING IN HAM RADIO!

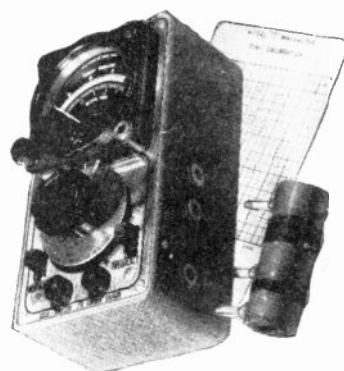
Combination Wavemeter-Modulation Indicator

At last, a complete station monitor for the radio amateur. With this one unit, you can accurately spot your transmitter on the band, check for harmonics and parasites, monitor your quality, plot antenna field patterns, and—best of all—read your modulation percentage on a direct reading dial.

The Model 77 comes complete with four coils, individually hand calibrated for each of the 10, 20, 40, and 80 meter bands, with a 6 meter coil available at slight extra charge. Frequencies between bands can be searched at the flip of a switch. Bands up to 420 megas can be covered by quarter-wave antenna sections plugged into the special jack.

Once tried, you wouldn't be without it.

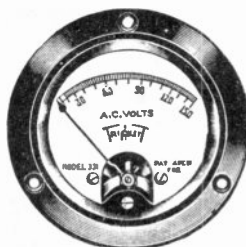
Amateur Net.....	\$29.50
(Special 6 meter coil, extra.....)	1.25



COMPLETE SIMPSON CATALOGUE GLADLY SENT ON REQUEST



PRECISION PANEL METERS



ROUND FLANGE MOUNTING ACCURACY 2%

Triplet D.C. instruments are the D'Arsonval type with an extra-light moving coil and reinforced parts. A.C. instruments are the movable iron repulsion type; are air damped and have light moving parts. All have selected jewel bearings and highly polished pivots.

Now Made in Canada!



SQUARE FLANGE MOUNTING ACCURACY 2%

Models are:

- 221—2" Round—2 1/4 dia. flange Rim Mtg.
227—2" Square— " " " " " "
321—3" Round—3 1/4 " " " " " "
427—4" Square—4 1/4 x 4 1/4 Rear Screw Mtg.
726—7" Square—7 1/4 x 6 3/4 " " " "
All above in Black Moulded bases.

TRIPLET D.C. VOLTMETERS MODELS

Range	Ohms Per/V	221-T 2 1/2 R	321-T 3 1/2 R	227-T 2 1/2 S	427 4 1/2 S	726 7 1/2 S
0-1	1000 ohms	\$ 9.75	\$11.05	\$ 9.75	\$14.15	\$23.25
0-3	"	9.75	11.05	9.75	14.15	23.25
0-5	"	9.75	11.05	9.75	14.15	23.25
0-10	"	9.75	11.05	9.75	14.15	23.25
0-25	"	9.75	11.05	9.75	14.15	23.25
0-50	"	9.75	11.05	9.75	14.15	23.25
0-100	"	10.15	11.45	10.15	14.55	23.65
0-150	"	10.15	11.45	10.15	14.55	23.65
0-300	"	12.60	13.90	12.60	17.05	26.15
0-500	Ext. Res	14.30	15.60	14.30	18.70	29.10
0-750	Ext. Res	16.50	17.80	16.50	20.95	30.05
0-1000	Ext. Res	29.65	30.95	29.65	34.05	43.15
0-2000	Ext. Res.	49.15	50.45	49.15	53.55	62.65

TRIPLET D.C. MILLIAMMETERS MODELS

Range	Approx Res.	221-T 2 1/2 R	321-T 3 1/2 R	227-T 2 1/2 S	427 4 1/2 S	726 7 1/2 S
0-1	55	\$8.05	\$9.35	\$8.05	\$12.50	\$21.60
0-1.5	55	8.05	9.35	8.05	12.50	21.60
0-3	9	8.05	9.35	8.05	12.50	21.60
0-5	8.5	6.75	8.05	6.75	10.15	20.30
0-10	3.1	6.75	8.05	6.75	10.15	20.30
0-15	6.6	6.75	8.05	6.75	10.15	20.30
0-25	4	6.75	8.05	6.75	10.15	20.30
0-50	2	6.75	8.05	6.75	10.15	20.30
0-75	1.3	6.75	8.05	6.75	10.15	20.30
0-100	1	6.75	8.05	6.75	10.15	20.30
0-150	.6	6.75	8.05	6.75	10.15	20.30
0-200	.5	6.75	8.05	6.75	10.15	20.30
0-250	.4	6.75	8.05	6.75	10.15	20.30
0-300	.33	6.75	8.05	6.75	10.15	20.30
0-400	.25	6.75	8.05	6.75	10.15	20.30
0-500	.2	6.75	8.05	6.75	10.15	20.30
0-750	.13	6.75	8.05	6.75	10.15	20.30
0-1000	.1	6.75	8.05	6.75	10.15	20.30

TRIPLET D.C. MICROAMMETERS

Range	1770	\$19.90	\$21.20	\$19.90	\$24.30
0-50	900	17.55	18.85	17.55	22.00
0-100	360	13.80	15.10	13.80	17.95
0-500	156	9.50	10.80	9.50	13.90

TRIPLET A.C. VOLTMETERS MODELS

Range	Approx. Res.	231-S 2 1/2 R	331-S 3 1/2 R	237-S 2 1/2 S	437 4 1/2 S	736 7 1/2 S
0-1.5	1.54	\$ 6.75	\$ 8.05	\$ 6.75	\$11.20	\$20.30
0-3	3.33	6.75	8.05	6.75	11.20	20.30
0-5	4	6.75	8.05	6.75	11.20	20.30
0-10	10	6.75	8.05	6.75	11.20	20.30
0-15	10	6.75	8.05	6.75	11.20	20.30
0-25	20	6.75	8.05	6.75	11.20	20.30
0-50	50	6.75	8.05	6.75	11.20	20.30
0-100	91	6.75	8.05	6.75	11.20	20.30
0-150	125	8.05	9.35	8.05	12.50	21.60
0-250	144	9.10	10.40	9.10	13.50	22.60
0-300	144	9.90	11.20	9.90	14.30	23.40
0-500	125	13.80	15.10	13.80	18.20	27.30
0-750	125	16.50	17.80	16.50	20.95	30.05
0-1000	125	18.45	19.75	18.45	22.90	32.00

External Resistor

TRIPLET A.C. AMMETERS MODELS

Range	Approx. Res.	231-S 2 1/2 R	331-S 3 1/2 R	237-S 2 1/2 S	437 4 1/2 S	736 7 1/2 S
0-1	.21	\$6.75	\$8.05	\$6.75	\$11.20	\$20.30
0-2	.11	6.75	8.05	6.75	11.20	20.30
0-3	.02	6.75	8.05	6.75	11.20	20.30
0-5	.01	6.75	8.05	6.75	11.20	20.30
0-10	.005	6.75	8.05	6.75	11.20	20.30
0-15	.002	6.75	8.05	6.75	11.20	20.30
0-25	.001	6.75	8.05	6.75	11.20	20.30
0-30	.001	6.75	8.05	6.75	11.20	20.30
0-50	.0005	6.75	8.05	6.75	11.20	20.30
0-75	.0003	—	9.75	—	12.90	22.00

TRIPLET D.C. AMMETERS MODELS

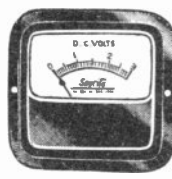
Range	221 2 1/2 R	321 3 1/2 R	227 2 1/2 S	427 4 1/2 S	726 7 1/2 S
0-1	\$6.75	\$8.05	\$6.75	\$11.20	\$20.30
0-3	6.75	8.05	6.75	11.20	20.30
0-5	6.75	8.05	6.75	11.20	20.30
0-10	6.75	8.05	6.75	11.20	20.30
0-15	6.75	8.05	6.75	11.20	20.30
0-25	6.75	8.05	6.75	11.20	20.30
0-30	6.75	8.05	6.75	11.20	20.30
30-0-30	6.75	8.05	6.75	11.20	20.30

SHURITE "LOW PRICE" PANEL METERS



ROUND FLANGE MOUNTING Accuracy well within 5%

Model 550-DC, flush case, narrow ring, round, is furnished with long-U-bracket. 550-AC furnished with ring clamp. All Shurite meters are guaranteed against defective workmanship and material. Will be repaired when sent to factory with 25c handling charge within one year date of purchase.



SQUARE FLANGE MOUNTING Accuracy well within 5%

Models 950-DC and AC flush case, square models 950-DC and AC flush case, square flange, have screw holes for mounting, hardware included. All models 550 and 950 are black enamel brass, all require 2 1/4 hole. DC meters are polarized vane solenoid type, AC meters are double vane repulsion type.

DC AMMETERS

Range Amps	Model 550 Your Cost	Model 950 Your Cost
0-1	\$1.75	\$1.95
0-3	1.75	1.95
0-5	1.75	1.95
0-10	1.75	1.95
0-25	2.15	2.35
0-50	2.65	2.85
3-0-3	1.75	1.95
5-0-5	1.75	1.95
10-0-10	1.75	1.95
20-0-20	1.85	2.05

DC VOLTMETERS

Range Volts	Model 550 Your Cost	Model 950 Your Cost
0-1	\$1.65	\$1.85
0-3	1.75	1.95
0-5	1.75	1.90
0-10	1.80	2.00
0-25	1.75	1.95
0-75	1.85	2.05
0-100	2.00	2.20
0-150	2.25	2.45
0-300	4.35	4.55
0-500	5.00	5.20
0-750	5.40	5.60

DC MILLIAMMETERS

Range Ma.	Model 550 Your Cost	Model 950 Your Cost
0-3	\$2.65	\$2.85
0-5	2.45	2.65
0-10	2.35	2.55
0-25	1.75	1.95
0-50	1.75	1.95
0-100	1.75	1.95
0-200	1.75	1.95
0-300	1.75	1.95
0-500	1.65	1.85

AC AMMETERS

Range	\$3.15	\$3.35
0-1	3.15	3.35
0-3	3.15	3.35
0-5	3.15	3.35
0-10	3.15	3.35

RESISTANCE METERS

Ohms	Volts	Model 550 Your Cost	Model 950 Your Cost
10,000	4.5	\$2.40	\$2.60
A.C. Milliammeters on request.			

AC VOLTMETERS

Range volts	\$3.15	\$3.35
0-6	3.15	3.35
0-10	3.15	3.35
0-15	3.15	3.35
0-50	4.00	4.20
0-150	4.65	4.85
0-300	5.20	5.40
0-600	6.20	6.40
0-750	6.85	7.05

CRONAME

INSTRUMENT DRIVES, DIALS, and CROFLEX TUNERS

CRONAME DIRECT DRIVE DIALS For Transmitting and Technical Equipment



All dials fit $\frac{1}{4}$ " shaft. Micrometer indicators supplied with $2\frac{3}{4}$ " and 4" dials allow logging to one tenth of one division on dial. Drilling template included. Genuine spun chromium finish.

180 degree 0-100 Calibration

	Your Cost
27068 $1\frac{3}{4}$ " dia. No Indicator.	\$1.08
294 $2\frac{3}{4}$ " dia. With Indicator	2.00
292 4" dia. With Indicator	3.20

270 degree 0-100 Calibration

	Your Cost
27069 $1\frac{3}{4}$ " dia. No Indicator.	1.08
295 $2\frac{3}{4}$ " dia. With Indicator	2.00
293 4" dia. With Indicator	3.20

CRONAME PLANETARY DRIVE DIALS



For Precision Instruments "Plan-O-Vernier" Transmitter Type Reduced Speed Dial with stationary micrometer marker. Chromium, spun-ray finish.

Ratio on tuning.

0-180°— $2\frac{1}{4}$ Rotation of Small Knob
0-270°— $3\frac{3}{4}$ Rotation of Small Knob
Legs— $\frac{1}{10}$ of one division.

	Your Cost
298— $2\frac{3}{4}$ " with Indicator.....	\$6.00
296—4" with Indicator.....	7.20

270 Degree 0-100

299— $2\frac{3}{4}$ " with Indicator.....	6.00
297—4" with Indicator.....	7.20

TWO SPEED PLANETARY DRIVE



Slow ratio approximately 5 to 1 in 360°, fast ratio 1 to 1. Fits $\frac{1}{4}$ " diameter instrument drive shaft, anchoring stud included.

No. 599 Your Cost. \$4.00



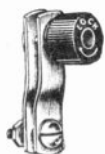
No. 6665, Dual Knob for above..... .80

JACK COVERS



No. 23559—For protecting jack openings from dust and moisture. Black wrinkle finish. Your Cost..... \$0.52

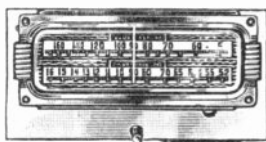
DIAL LOCK



No. 27050 Dial Lock Grips the edge of instrument-type dial, including any of those shown on this page, for positive lock action without tendency to rotate the dial. Your Cost..... \$1.20

CROWE SLIDE RULE TUNING UNITS FOR COMMUNICATIONS AND HOUSEHOLD RECEIVERS

HOUSEHOLD RECEIVERS LARGE CONSOLES Without Reduction Ratio

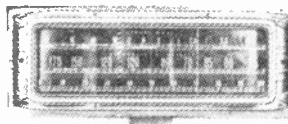


No. 534—For small size compact designs. Direct ratio, without reduction. Dial scale is metal in popular, attractive, Croart finish. Antique bronze escutcheon with opening $1\frac{5}{8}$ x $3\frac{3}{4}$ " Pointer travel 3-9/64". One pilot lamp furnished.

Your Cost \$2.32

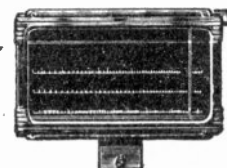
No. 535 with Reduction Ratio 7 Times for 180°

Your Cost..... \$2.80



No. 344 Style 8 For large consoles. Beautiful edgelit glass scale and antique bronze escutcheon. Pointer slides behind the scale—9" travel. Knob shaft turns 9 times to rotate condenser 180°. Escutcheon opening $2\frac{7}{8}$ x $9\frac{7}{8}$ ". Pilot lamp sockets included.

Your Cost \$9.20



No. 343 Style 1—Translucent dial scale, illuminated from rear for three band sets. Antique bronze escutcheons with clear plastic crystal. Knob shaft turns 12 times to rotate condenser 180°. Escutcheon opening $3\frac{3}{4}$ x $7\frac{3}{8}$ ". Pilot lamp sockets included.

Your Cost..... \$5.80

★ FLEXIBLE ★ ADJUSTABLE

CROFLEX TUNERS (Your Choice of 4 Sizes)

★ HORIZONTAL ★ AND VERTICAL

Croflex dial can be fitted to ANY normal chassis. Several engineering features have been combined with a dependable cable drive to provide unusual flexibility for new designs and for replacement work too.

Tuning knob can be located at either end of the dial or most any place along the lower edge of the dial.

All the Croflex tuners illustrated have beautiful edgelighted glass dial scales and genuine bronze escutcheons.

Any Croflex tuner is fitted to either clockwise or counter clockwise condenser by adjusting the drive cable. Pilot light socket on clip supplied with any Croflex tuners.



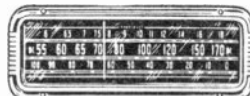
231



232



233



234

STANDARD TUNERS HORIZONTAL TYPE—AM Broadcast and Shortwave—double channel

Suggested Use	Style	Outside	Inside	Pointer Travel	Your Cost
Small Size Sets	231	$2\frac{1}{4}$ "x $4\frac{3}{4}$ "	$1\frac{3}{4}$ "x $4\frac{1}{4}$ "	$3\frac{1}{8}$ "	\$3.40
Medium Size Sets	232	$2\frac{1}{8}$ "x $6\frac{1}{8}$ "	$1\frac{1}{8}$ "x $5\frac{1}{8}$ "	$4\frac{1}{4}$ "	3.60
Small Consoles	233	$3\frac{1}{2}$ "x $6\frac{3}{8}$ "	$2\frac{1}{2}$ "x $5\frac{3}{4}$ "	$5\frac{1}{2}$ "	3.80
Large Consoles	234	$3\frac{1}{8}$ "x $8\frac{1}{8}$ "	$1\frac{7}{8}$ "x $7\frac{1}{4}$ "	$6\frac{3}{4}$ "	4.00

ALTERNATE CALIBRATIONS—SCALES ONLY

Style	Vertical A.M. Broadcast and Shortwave Scale No.	Horizontal F.M. Broadcast and Shortwave Scale No.	Any Scale Your Cost
231	36419	36422	\$0.60
232	36426	36429	.60
233	36433	36436	.60
234	36440	36443	.60

Other alternate calibrations are available. Write for detailed bulletin Croflex No. 245.

DIAL POINTER KIT



Popular Assortment of 10 Dial pointers containing all dials above in attractive plastic container.

8-10 Kit of 10 Your Cost..... \$2.32

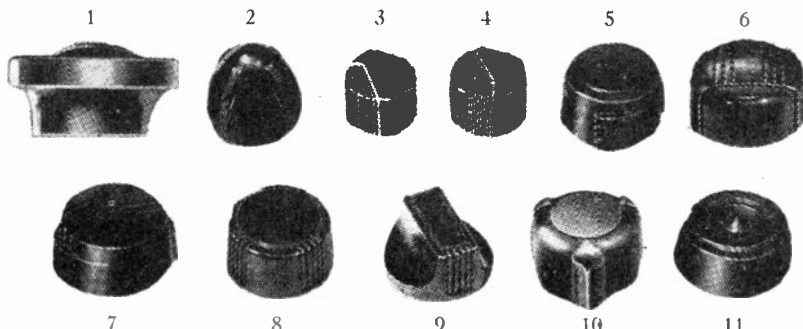
DIAL POINTERS

No.	Length	Width	Finish	Your Cost
8-1	$3\frac{1}{8}$ "	$\frac{1}{4}$ "	Bronze	\$0.28
8-2	$3\frac{1}{8}$ "	$\frac{1}{4}$ "	Bronze	.28
8-3	$3\frac{1}{2}$ "	$\frac{1}{8}$ "	Bronze	.28
8-4	$3\frac{1}{4}$ "	$\frac{1}{8}$ "	Bronze	.28
8-5	$4\frac{1}{2}$ "		White Enamel	.25
8-6	$2\frac{1}{8}$ "	$\frac{1}{2}$ "x $\frac{1}{4}$ "	White Enamel	.25
8-7	$2\frac{1}{8}$ "	$\frac{1}{2}$ "x $\frac{1}{4}$ "	Red Plastic	.25

MAKE CANADIAN YOUR RADIO SUPPLY HEADQUARTERS

MODERNISTIC KNOBS FOR EVERY RADIO

NEW PLASTIC RADIO CONTROL KNOBS



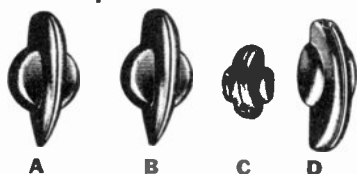
Finished in a rich, brown walnut colour, these knobs have an unmistakable look of quality. They have a moulded shaft hole to fit standard 1/4" shaft with set screw.

No.	Size	Each	Doz.	Hund.
1	1"	\$0.11	\$1.20	\$9.00
2	3/4"	.11	1.20	9.00
3	3/4"	.11	1.20	9.00
4	3/4"	.11	1.20	9.00
5	1"	.13	1.44	11.00
6	1"	.11	1.20	9.00
7	1"	.11	1.20	9.00

No.	Size	Each	Doz.	Hund.
6	1 1/8"	\$0.13	\$1.44	\$11.00
7	1 1/8"	.11	1.20	9.00
8	1 1/8"	.13	1.44	11.00
9	1 1/8"	.13	1.44	11.00
10	1 1/8"	.13	1.44	11.00
11	1 1/8"	.11	1.20	9.00

STREAMLINED BAR KNOBS

Colourful plastic with brass inserts.



No.	Type	Size	Colour	Your Cost
6420	A	1 1/4"	Black	\$0.24
6421	A	1 1/4"	Ivory	0.24
6422	A	1 1/4"	Red	0.24
6423	B	2 1/4"	Black	0.36
6424	B	2 1/4"	Ivory	0.36
6425	B	2 1/4"	Red	0.36
6120	C	1 1/8"	Black	0.24
6121	C	1 1/8"	Ivory	0.24
6122	C	1 1/8"	Red	0.24
6123	D	2"	Black	0.36
6124	D	2"	Ivory	0.36
6125	D	2"	Red	0.36

RADIO PUSH-ON KNOB SPRINGS



Spring Knobs that are used in Majestic, RCA, Philco, General Electric, etc.

No.	Your Cost
1050—Kit of 35 Assorted Springs.....	\$0.56
1051—Kit of 100 Assorted Springs.....	1.09

G-C RADIO KNOB SET SCREWS

Replacement Screws for Knobs. Assortments contain various length of 6/32, 8/32 and 10/32 screws.



No.	Your Cost
1060—50 assorted set screws....	\$0.80

PLASTIC INSTRUMENT KNOBS



Easy, "natural grip" knobs are specially appreciated by the radio servicemen. Applicable for any instrument where a tuning knob is required. All Black.

LESS POINTER

No.	Size	Each	Doz.
P1-118	1 1/8"	\$0.29	\$3.36
P1-158	1 1/8"	.38	4.44
P1-238	2 3/8"	.47	5.52

WITH POINTER

P2-118	1 1/8"	.29	3.36
P2-158	1 1/8"	.38	4.44
P2-238	2 3/8"	.47	5.52

WITH FLANGE

P3-118	1 1/8"	.38	4.44
P3-158	1 1/8"	.47	5.52
P3-238	2 3/8"	.61	7.20

MODERN PLASTIC KNOBS



These modern knobs are typical pointer and skirted types. Latest in design. Finish Black. High-lustre polish. Pointers are made of transparent acetate plastic with red filled indicator line. All pointers attached to knobs with three binding head screws.

LESS POINTER

No.	Size	Each	Doz.
6129	7/8"	\$0.24	
6135	1 1/8"	.32	
6138	2 3/8"	.52	

WITH POINTER

6141	7/8"	.60	
6147	1 1/8"	.68	
6150	2 3/8"	.88	

WITH FLANGE

6508	7/8"	.64	
6426	1 1/8"	.80	
6429	2 3/8"	1.00	

COLORED BAKELITE MIDGET KNOBS

For new style plastic sets



No.	Size	Your Cost
1081—Black	1/2" diameter	
1082—Red	1/2" diameter	\$0.10 each
1083—Green	1/2" diameter	
1084—Brown	1/2" diameter	
1085—White	1/2" diameter	.11

PLASTIC MOULDED KNOBS



No.	Size	Each	Doz.	100
50	3/4"	\$0.10	\$1.10	\$7.50
51	3/4"	.10	1.10	7.50
52	1"	.10	1.10	7.50

CHROME-PLATED BRASS KNOBS



Durable, good-looking replacement knobs.

No.	Size	Each	Doz.
K57—1/4" shaft.....		\$0.30	\$3.00

MOLDED TENITE KNOBS



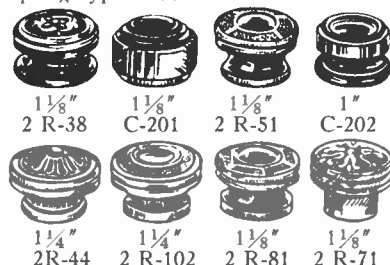
Come in black, dark gray, brown, light gray, pearl gray. —1/4" shaft

No.	Each	Doz.
K55 Assortment	\$0.20	2.00

NEW WALNUT WOOD KNOBS

Finest Quality, Rich Looking

Solid brass, bushing with set screw. Fit all 1/4 inch shaft controls, including those with flattened side for push-on spring type knobs.



No.	Size	Each	Doz.
2 R-38	1 1/8"		
C-201	1 1/8"		
2 R-51	1 1/8"		
C-202	1"		
2R-44	1 1/4"		
2 R-102	1 1/4"		
2 R-81	1 1/8"		
2 R-71	1 1/8"		

Your Cost Each.....	\$0.15
Your Cost Per Dozen.....	1.45

BUY GENUINE FACTORY PARTS DIRECT FROM US



Attractive RADIO DIAL Plates



METAL NAME PLATES



Style A



Style B

(Illustrations are actual sizes)

A—Anodized aluminum finish with silver background, black copy or

B—Aluminum with black background name plates.

(STATE STYLE WHEN ORDERING)

A.C. Input	125 Ohm Input	Horizontal Plates
Amplifier	500 Ohm Input	Vertical Plates
Antenna	Key	Power Amp. Grid
Antenna Current	Left-Spot-Right	Pre-Selector
Antenna Tuning	Linear Sweep	Radio
Buffer	Master Gain	Record
1st Buffer Plate	Microphone	Rectifier
2nd Buffer Grid	Monitor	Regeneration
2nd Buffer Plate	Modulator Grid	60 Cycle Sweep
Crystal	Modulator Plate	Screen Current
Crystal Osc. Plate	Neut. Condenser	Send
Doubler	Off-Intensity	Send—Receive
Down-Spot-Up	Off-On	Speaker
Excitation	Oscillator	Speech Amplifier
Fader	Oscillator Tank	Tone
Field	Oscilloscope	Tone Control
Filament Voltage	Output	Trans.
Focus	50 Ohm Output	Volume
Gain	125 Ohm Output	3.5 MC Band
Gain Control	500 Ohm Output	7 MC Band
Grid	Phone-CW	14 MC Band
Ground	Plate	28 MC Band
Beater Voltage	Plate Voltage	Phones
Input	Phones	Power Amp.
50 Ohm Input	Power Amp.	

Your Cost Aluminum—Style A..... \$0.12
Your Cost Black—Style B..... .12



ETCHED DIAL PLATES

Black Satin Finish

Size 1 3/4" x 2 1/4"

Calibrated 0-10 over 300°

Your Cost, Each \$0.20

No.	No.
276 Gain	571 Plain, 0-10
277 Tone	577 Microphone 1
565 Record	578 " " 2
566 Microphone	579 Exciter
570 Master Gain	580 Monitor

G-C LUMINOUS LITE-KOAT KIT ("Glow in the Dark")

Ideal to coat or stripe dials, knobs, switch plates, meter boxes, key holes, panels, instruments. De-luxe Kit contains generous quantity of Lite-Koat Powder, Mix-Koat Top-Koat, to protect the finish, handy small brushes for applying and thinner. Complete instructions and suggestions.

No. 184-0—De-luxe, brush and thinner..... \$2.00



CHROME AND BLACK DIAL PLATES

No.	Diam.	Calib.	Degrees	Your Cost
260	3"	0-100	180°	\$0.52
261	3"	0-100	270°	.52
262	1 7/8"	0-100	180°	.28
263	1 7/8"	0-100	270°	.28
264	2 1/4"	0-100	300°	.32



ETCHED PLATES

Etched Aluminum and Black.

Diameter 1 3/4".

Your Cost..... \$0.16

No.	Marking
25	Volume
26	Tone Control, Off
569	No Title, Calibrated 0-100 over 180°.
905	No Title, Calibrated 0-100 over 270°.

"OFF-ON" PLATES



Etched

Aluminum and Black

No. 278—1 1/8" x 1 1/8" Your Cost \$0.10



CIRCULAR PLATES

For toggle switches
Size 1 1/8" x 5/32".

No.	Your Cost
272—"Off-On".....	\$0.12
573—"Micro-Phono".....	.12
581—"Lo-Hi".....	.12
582—"Phono-Radio".....	.12

PLATES FOR ROTARY SWITCHES



Etched polished aluminum with black background. Size 1 x 1 1/4".

Your Cost

No. 279—Broadcast Shortwave	\$0.10
No. 584—Off-On.....	.10
No. 274—1-2.....	.10
No. 564—1-2-3.....	.10



MODERN DIAL PLATES HORIZONTAL

Distinctive Silvery-white

Background with Black Figures.
2 3/16" High x 2 5/8" Wide.

No.	Marking	Your Cost
410	0-10.....	\$0.28
411	0-10 Tone.....	.28
412	0-10 Gain.....	.28
413	0-10 Master Gain.....	.28
414	0-10 Record.....	.28
415	0-10 Microphone.....	.28
416	0-10 Microphone 1.....	.28
417	0-10 Microphone 2.....	.28
422	5-0-5 Gain.....	.28
423	Increase with arrow.....	.28
424	5-0-5 Radio-Microphone.....	.28
425	5-0-5 Record-Microphone.....	.28
426	0-10 Volume.....	.28
427	5-0-5 Fader.....	.28
428	5-0-5 Bass.....	.28
429	5-0-5 Treble.....	.28
430	0-10 Expansion.....	.28
440	Indicator for Magic Eye.....	.64

SINGLE VERTICAL DIAL PLATE

2 5/8" high x 2 3/16" wide

No.	Marking	Your Cost
436	Gain 0-10.....	\$0.28
437	Gain 5-0-5.....	.28
438	Switch 1-2-3.....	.28
439	Tone 0-10.....	.28

435-INDICATOR
(Includes embossed shield or escutcheon for resonance indicating tube. Similar to No. 440.)

DOUBLE STYLE

2 3/16" high x 5" wide

No.	Marking	Your Cost
418	Tone 0-10 Gain 0-10....	\$0.52
419	Record 0-10	
	Microphone 0-10.....	.52
420	Microphone 1, 0-10	
	Microphone 2, 0-10....	.52

QUADRUPLE STYLE

2 3/16" high x 9 1/2" wide

No.	Marking	Your Cost
421	Microphone 0-10—	
	Record 0-10.....	
	Master Gain 0-10—	
	Tone 0-10.....	\$0.64



Aluminum with black background
Size 5/8" x 1 1/2".

No. 275 Your Cost..... \$0.10

DO NOT SPLIT YOUR ORDERS - SAVE TRANSPORTATION CHARGES

Service Aids Dial Cords, Belts and Accessories

WOVEN FABRIC RADIO DIAL BELTS

There is a replacement belt for every set on the market. They are made of best quality material and will not stretch. They are specially treated to prevent slipping. These belts are endless. Follow instructions below on how to measure your old belt. DIAL BELTS: Each..... \$0.22



Radio Dial Belts

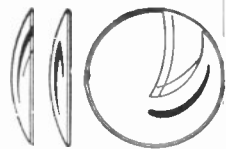
INSTRUCTIONS FOR MEASURING BELTS

To determine the size of belt required, stretch a thin thread or cord around the belt pulleys. (Thick cord provides inaccurate reading.) Take stretched out measurement of old belt, subtract 3-16" from over all length to arrive at the correct circumference of belt.

G-C RADIO DIAL GLASS CRYSTALS

"For Replacing Broken Crystals on Radio Sets and Instruments"

No.	Diam.	Your Cost	No.	Diam.	Your Cost	No.	Diam.	Your Cost	No.	Diam.	Your Cost
25	1 3/4"	\$0.40	30	2 1/8"	\$0.40	49	4 3/8"	\$0.48	67	7 3/8"	\$0.56
26	1 7/8"	.40	31	2 3/8"	.40	50	5"	.48	68	7 1/4"	.56
26A	2"	.40	32	2 3/4"	.40	51	5 1/8"	.48	69	7 3/8"	.56
27	2 1/8"	.40	33	2 7/8"	.40	52	5 1/4"	.48	70	7 1/2"	.56
28	2 1/4"	.40	34	3"	.40	53	5 3/8"	.48	71	7 5/8"	.56
29	2 3/8"	.40	35	3 1/8"	.40	54	5 1/2"	.48	72	7 3/4"	.56
			36	3 1/4"	.40	55	5 3/8"	.48	73	7 3/8"	.56
			37	3 3/8"	.40	56	5 3/4"	.48	74	8"	.60
			38	3 1/2"	.40	57	5 7/8"	.48	75	8 1/8"	.60
			39	3 5/8"	.40	58	6"	.48	76	8 1/4"	.60
			40	3 3/4"	.40	59	6 1/8"	.48	77	8 3/8"	.60
			41	3 7/8"	.40	60	6 1/4"	.48	78	8 1/2"	.60
			42	4"	.48	61	6 3/8"	.48	79	8 3/8"	.60
			43	4 1/8"	.48	62	6 1/2"	.48	80	8 3/4"	.60
			44	4 1/4"	.48	62A	6 3/8"	.48	81	8 7/8"	.60
			45	4 3/8"	.48	63	6 3/4"	.48	82	9"	.60
			46	4 1/2"	.48	64	6 3/4"	.48	83	9 1/8"	.60
			47	4 5/8"	.48	66	7"	.56	84	9 1/4"	.60
			48	4 3/4"	.48						



DIAL CORD

Nylon Cord has ample reserve strength and is now popularly used in original radio sets. Will adequately replace the cords of older type receivers. Wound on metal spool.

JFD THIN NYLON CORD

No.	Spool	Your Cost
908-25	25 ft.	\$1.00
908-50	50 ft.	1.92
908-100	100 ft.	2.60

JFD LIGHT NYLON CORD

No.	Spool	Your Cost
904-25	25 ft.	\$1.01
904-50	50 ft.	1.97
904-100	100 ft.	3.50

JFD HEAVY NYLON CORD

No.	Spool	Your Cost
903-25	25 ft.	\$1.14
903-50	50 ft.	2.19
903-100	100 ft.	3.68

JFD 42 STRAND PHOSPHOR BRONZE CABLE

42 Strand Phosphor Bronze Cable with a linen thread center. This is the best flexible bronze cable obtainable. Wound on metal spool.

No.	Spool	Your Cost
901-25	25 ft.	\$1.01
901-50	50 ft.	1.97
901-100	100 ft.	3.50

JFD 8 STRAND PHOSPHOR BRONZE CABLE

Special Thin Phosphor Bronze Knitted Cable, 8 strands. Strong, flexible and especially made to replace cables on RCA and receivers. Wound on metal spool.

No.	Spool	Your Cost
906-25	25 ft.	\$1.00
906-50	50 ft.	1.92
906-100	100 ft.	3.60

G.E. 1936 to 1938



DIAL DRIVE CORD, RACK

YOU PAY ONLY FOR THE CABLE THE RACK IS FREE!

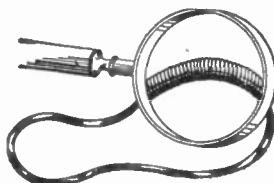
Every spool is a metal spool-housed in a weather-resistant, moisture-proof plastic container!

Consists of 5-100 foot spools one each of the following:

- No. 901D Fine Braided Phosphor Bronze
- No. 903 Heavy Nylon Cord
- No. 904 Light Nylon Cord
- No. 906 8 Strand Phosphor Bronze
- No. 908 Thin Nylon Cord
- 1 Free Rack

No. 5R100—Your Cost..... \$15.73

DETROLA RECORD CHANGER DRIVESPRING AND RUBBER



Detrola part No. 50137 for Detrola Model No. 626 etc. This is the same spring used by the manufacturer in his original equipment. Elastic tension spring with core.

No. 63-1—Spring. Your Cost..... \$0.40

IDLER PULLEYS

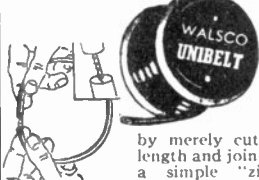
Two sizes replace original idler or drive pulleys.

No.	Your Cost
2080	\$0.09
2081	.09



WALSCO UNIBELT

A universal dial-drive belt adjustable to fit any drive.



No need for stocking 96 different sizes of belts. Unibelt makes it possible to assemble any size belt

by merely cutting the desired length and joining the ends with a simple "zipper-like" connector. The connected belt cannot stretch and has a breaking strength of over 60 lbs. ONLY ONE SIZE NEEDED for any belt replacement job. SPOOL CONTAINS 5-ft. OF BELT (with 10 connectors and instructions.)

No. 303 Your Cost..... \$2.00

DIAL DRIVE SPRING ASSORTMENT



A kit of hard-to-get Dial Drive Tension Springs. Six assorted sizes to care for all jobs. All cadmium plated.

No.	Your Cost
1054—10 Assorted Standard	\$0.32
1054-S—10 Small Springs	.32
1055—Kit of 25 Assorted Springs	.88

RADIO AND PHONOGRAPH RUBBER DRIVES



Specially made for Atwater Kent, RCA, Stewart Warner, and others. Best quality live rubber drives.

No.	Your Cost
1024S—Small Drives	\$0.32
1024L—Large Drives	.32
1025—25 Assorted Drives	1.20

COMBINATION KIT



Servicemen will find it so convenient. Contains 15 dial drive tension springs 25 Knob springs.

10 Set Screws 5 Idler Pulleys

No.	Your Cost
51-1—Kit	\$1.60

DIAL CORD DRESSING



A new item for every radioman. Simply rub dressing stick on cord and job is done. It stops slipping and gives a smoother working dial. Carry one with you.

No.	Your Cost
1212—Stick	\$0.20
1212D—Display—36 Sticks	7.20

ICA DIAL CABLE ADJUSTER



Handy aid to replacing slipped-off dial cable over drive drum. Permits easy manipulation in cramped places.

No. 437—Your Cost..... \$0.60

SAVE TIME AND MONEY - DO NOT SPLIT YOUR ORDERS

GENERAL CEMENT *Paints - Varnishes - Compounds*



KRYSTAL KOAT Crystalizing Lacquer

Krystal Koat lacquer is strictly air-drying. Forms beautiful floral patterns when dry. For chassis, panels, etc. Can be used on metal, wood or paper. Colours: Black, Gray, Brown, Green, Blue, Red and Clear. Specify colour.

No. 63-2 Your Cost \$0.48
No. 63-8 Your Cost 1.40

RUF-KOAT AIR-DRY WRINKLE FINISH VARNISH



This wrinkle finish varnish requires no baking. Air dried. It can be easily brushed or sprayed. You can get a professional job with this varnish. Colours: Brown, Silver-Gray, Black, Blue. Specify colour wanted.

No. 60-2 Your Cost \$0.48
No. 60-8 Your Cost 1.40

G-C KROME-KOAT ALUMINUM PAINT

Fast drying ready mixed aluminum paint leaves chrome-like finish. For P.A. equipment, speakers, chassis, etc.



No.	Size	Your Cost
61-4	4 oz.	\$0.60
61-8	8 oz.	1.00

G-C WOOD CABINET GLUE

Best quality wood glue for repairing cabinets. Strong and fast drying. Will not injure cabinet finish.



No.	Size	Your Cost
35-2	2 oz. bottle with brush	\$0.40
35-4	4 oz.	.52

RUBBER TO METAL CEMENT & DIAL DRIVE CEMENT



Specially prepared for cementing rubber dial drives to metal shafts, rubber mountings to chassis, or for cementing any rubber material to metal.

No. 35-2. Your Cost
2 oz. bottle with brush \$0.40

G-C PLASTIC CEMENT

Best grade pyroxilin cement for cementing all types of plastics. Excellent for cementing broken cabinets, knobs, etc.



Your Cost
No. 32-2A Size 2 oz. \$0.48

CONTACT AND ATTENUATOR

SERVICE KIT

"Eliminates Noise . . .
Prevents Corrosion"



Ideal kit for cleaning noisy attenuators, tuners, all-wave switches, variable contacts, etc. Your Cost
No. 777 Kit \$0.80

CONTACT & CRYSTAL CLEANER



Specially prepared for cleaning contacts and crystals. Cleans easily and will not injure delicate parts, crystals, etc. "Hams" and Radio Men will appreciate this item.

No. 127-2—2 oz. \$0.32

G-C CARBON TETRA-CHLORIDE



100% Carbon Tetra-Chloride. Non-explosive and non-inflammable for cleaning electrical controls and contacts.

No.	Size	Your Cost
211-2	2 oz.	\$0.32
211-8	8 oz.	.68

G-C GRAFOLINE



Specially made for noisy controls, switches, and wire wound controls. Will eliminate noises on controls and contacts and on tube prongs.

12 to display
No. 120-2—2 oz. \$0.40

Q-DOPE

"The Genuine All-Wave Coil Dope"



Ideal Coil dope specially prepared for holding coil windings firmly in place. It is non-inductive, fast-drying. 2 oz. bottle.

Your Cost
No. 372. \$0.40

TOPS SPOT CLEANER

High grade dry cleaner with special applicator. The applicator is in the cap—no extra cloth needed. Non-explosive.

No. 124-2 bottle \$0.40



TOPS SKRATCH REMOVER POLISH

No fuss—no mess. Merely apply to furniture or radio needing repair. Polish with special applicator.

No. 920 Your Cost .. \$0.40



G-C PORCELAIN PATCH STICK

Specially made for white Porcelain Refrigerators. Simply melt into nick and smooth off. Makes a perfect patch.

No. 908 Your Cost .. \$0.32



G-C COIL DOPE KIT



Handy Coil Dope Kit, containing one 2 oz. bottle G-C Polystyrene Q-Dope and one 2 oz. bottle G-C Q-Dope Thinner. Kit includes 2 Brushes. Handy kit for amateurs, and Servicemen, requiring a low loss compound for repairing high frequency coils.

No. 888 Kit Your Cost
\$0.64

G-C INSULATING & DIPPING VARNISH

Clear Amber Insulating Varnish for noisy or buzzing transformers, chokes, field coils, etc. Requires no baking—air dries.



No. 56-2—2 oz. \$0.40

TELEPHONE BLACK & GRAY

High grade enamel that covers well and dries fast. Black will produce an ebony black finish that is so familiar on telephone devices. Gray is a pleasing shade. Excellent for panel work and parts. Specify color.



No. 62-2—1/8 pt. Your Cost \$0.40
No. 62-8—1/2 pt. Your Cost 1.00

PORCELAIN GLAZE "For Refrigerators and Washers"



Easily fills in those nicks in porcelain. Used on refrigerators and washing machines and all porcelain.

No. 911, 2 oz. bottle \$0.60

SCRATCH STICK "Removes Scratches"



Rub this scratch stick over scratch and it will vanish like magic. Carry one of these in handy case at all times for accidental scratches.

No. 909 Your Cost .. \$0.28

CREME-O-WAX POLISH

"Finest for Radio Cabinets, Pianos and Furniture"



A high grade greaseless polish that you can use or sell your customers to keep their radios looking new.

No. 958—8 oz. bottle \$0.36

LEMON OIL POLISH FOR HOUSE & SHOP



Very high grade inexpensive lemon oil polish that can be used for ordinary polishing.

No. 918, 8 oz. \$0.32

SOME OF THE ABOVE ITEMS ARE TEMPORARILY PROHIBITED FROM U.S.A.



MALLORY BIAS CELL AND HOLDERS

Small acorn shaped.

	Your Cost
Grid Bias Cell, 1 1/4 Volt.....	\$0.27
No. GB11A. Holder for 1 Cell.....	.12
No. GB12. Holder for 2 Cells.....	.21
No. GB13. Holder for 3 Cells.....	.30
No. GB14. Holder for 4 Cells.....	.33

YARD-OHM RESISTANCE KIT

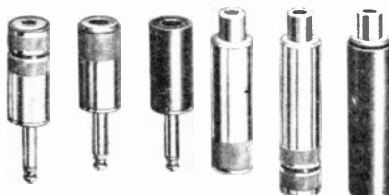


Each kit consists of all necessary materials to construct flexible resistors of a wide range of values. The kit provides a real solution to the odd-value resistor problem. Resistors made from the yard-ohm kit are ideal for meter shunts.

Your Cost..... \$0.60

Catalog Number	Resistance Value (Ohms per Inch)	Carrying Capacity in Amperes
YO-1	1	.707
YO-5	5	.315
YO-10	10	.223
YO-25	25	.141
YO-50	50	.100
YO-100	100	.071
YO-250	250	.044
YO-500	500	.031

PHONE PLUGS, MICROPHONE PLUGS, EXTENSION JACKS



No.	Shell	Type	Your Cost
75	Bakelite 2 Way Phone with tie-cord anchor.....		\$0.51
75N	Shielded Nickel 2 Way Phone with tie-cord anchor.....		.81
75A	Shielded Nickel 2 Way Phone with tie-cord anchor.....		1.32
76	Bakelite 3 Way Microphone.....		.81
76A	Shielded Nickel 3 Way Microphone.....		1.56
100	Fibre 2 Way Extension for No. 75, 75TC.....		1.05
100A	Shielded Nickel 2 Way Extension for No. 75A.....		1.83
100N	Shielded Nickel 2 Way Extension for 75N.....		1.32

ETCHED DIAL PLATES



For Controls, Switches, Rheostats and Potentiometers

Neat appearing dial plates with figures clearly etched. 1 1/4" diameter with 1/4" hole.

Nos. 453-486

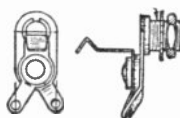
For all types 3100J, 3200J switches with 1 1/4" base, 20° spacing between numerals. Available in all markings from 1 to 18 inclusive, and with OFF from 1 to 16 inclusive.

Nos. 372-390

For all types 1200C, 1300L switches on 1 1/4" base, 30° spacing between numerals. Available in all markings from 1-18 inclusive, and with OFF from 1 to 16 inclusive. Any Type—Your Cost..... \$0.15

When ordering specify for what type of switch, and the markings required.

Infant, Midget and Junior Jacks



Infant & Midget Jack—Mounts in 3/8" diam. holes in 1/4" panel.

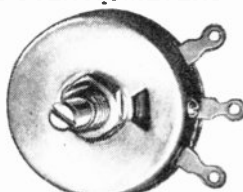
Junior Jack—Mounts in 3/8" diam. hole.

Type	Junior Cat. No.	Your Cost	Infant and Midget No.	Your Cost
701		\$0.45	*A-1	\$0.24
702		.60	A-2	.39
702A		.60	A-2A	.45
702B		.60		
703		.69		
703A		.69	A-3A	.63
703B		.69	*Commonly referred to as "Infant" Jacks.	
703C		.69		
704		.81		
704A		.81		
704B		.81		
705		.93		
706		.99		

COMMERCIAL AND INDUSTRIAL RHEOSTATS-POTENTIOMETERS

TYPE M

Precision wire-wound potentiometers and rheostats with a normal rating of 4 watts. Rheostats feature "off" position, which saves cost of switch.



Potentiometer Catalog Number	Your Cost	Rheostat Catalog number	Your Cost	Ohms resistance	Carrying Capacity in Amps.
M1P	\$0.99	M05R	\$0.81	1 1/2	2.80
		M1R	.81	1	2.00
		M2R	.81	2	1.4
M3P	.99	M3R	.81	3	1.15
		M4R	.81	4	1.00
M6P	.99	M6R	.81	6	.82
M10P	.99	M10R	.81	10	.63
M15P	.99	M15R	.81	15	.52
M20P	.99	M20R	.81	20	.45
M25P	.99	M25R	.81	25	.40
M30P	.99	M30R	.81	30	.37
M40P	.99	M40R	.81	40	.32
M50P	.99	M50R	.81	50	.28
M60P	.99	M60R	.81	60	.26
M75P	.99	M75R	.81	75	.23
M100P	.99	M100R	.81	100	.20
M200P	.99			200	.14
M400P	.99			400	.10
M500P	.99			500	.09
M600P	.99			600	.082
M1MP	1.11			1M	.063
M2MP	1.11			2M	.045
M3MP	1.11			3M	.037
M4MP	1.11			4M	.032
M5MP	1.11			5M	.028
M10MP	1.32			10M	.020
M15MP	1.32			15M	.016
M20MP	1.32			20M	.014
M25MP	1.22			25M	.013
M50MP	1.56			50M	.009
M70MP	1.56			70M	.0075

*"Open" or "Off" position counter-clockwise.

7-WATT WIRE-WOUND INDUSTRIAL POTENTIOMETERS



TYPE E

Particularly suitable for precision instruments such as resistance bridges, in addition to their usefulness as a medium current or voltage control. Dissipate 7 watts.

Catalog Number	Ohms Resistance	Carrying Capacity in Amps.	Your Cost
E5MP	5M	.042	\$2.40
E10MP	10M	.03	2.40
E20MP	20M	.021	2.40
E25MP	25M	.019	2.61
E50MP	50M	.0135	2.61
E75MP	75M	.011	2.61
E100MP	100M	.0095	2.61
E125MP	125M	.0085	2.61
E150MP	150M	.0078	2.61

MALLORY MALLORY MALLORY MALLORY MALLORY



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parts guide.
Your
Cost \$1.50

BINDING POSTS JACKS DIAL LIGHTS

ICA Insulated Needle Point Tip Plug



With Insulating Sleeve

Your Cost

No. 341B—Black.....	\$0.08
No. 341R—Red.....	.08

ICA Insulated Solderless Split Banana Plugs



Set screw provided at side of barrel to fasten screw without soldering.

1 1/2" Long Your Cost

No. 883B—Black.....	\$0.16
No. 883R—Red.....	.16

2 1/4" Long

With sleeve covering set screws.	
No. 882B—Black.....	.32
No. 882R—Red.....	.32

4" Long

With sleeve covering set screws.	
No. 881B—Black.....	.40
No. 881R—Red.....	.40

ICA Insulated Solderless Plug



2 1/4" long—fits all standard phone tip jacks.

Your Cost

No. 885B—Black.....	\$0.15
No. 885R—Red.....	.15



JR AND SR SOLDERLESS PHONE TIPS

Have a hole in the side for the insertion of the wire. Made to fit all types of phone tip jacks.

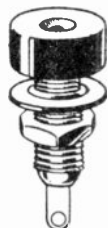
No.	Your Cost
10—SR. 1 1/2" long.....	\$0.08
9—JR. 1 1/2" long.....	.07



STANDARD PHONE TIPS

Used on speaker cord and sets. Has the standard type barrel for No. 18 wire. Tip is 1" long.

No. 16 Your Cost Each.....	\$0.02
Your Cost Per 100.....	1.60



INSULATED PHONE TIP JACKS

Available in four different colors.

No. 138

Your Cost..... \$0.12

ICA GRIP-RITE MOLDED PRONE TIP PLUG



Replacement for ICA and Weston — as well as other make Test Leads.

No.	Your Cost
868—Red.....	\$0.40
869—Black.....	.40

Insulated Spade Lug

Insulated Spade Lug with banana plug receptacle on lead end.

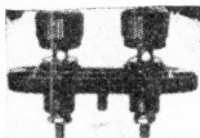


Your Cost

No. 887B—Black.....	\$0.13
No. 887R—Red.....	.13

10 in Standard Carton

Moulded TWIN Binding Posts

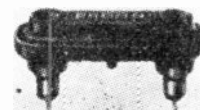


Base black molded bakelite. Center distance between posts is 3/8". Both posts completely insulated. Base is 2" long, 1/2" wide, 1/4" thick. Tops furnished plain or marked PLUS, MINUS, ANT., GND.

No. 21-R Twin Assembly.

Your Cost..... \$0.48

MOULDED TWIN JACKS



Black bakelite base has 6/32" x 1/4" mounting screw at center. Provided with two terminals 1 1/2" apart. Can be furnished plain or

marked Speaker or Phono.

No. 17 Your Cost..... \$0.45

Bakelite Binding Post Heads

Bakelite Heads only with Brass Threaded Insert for 8/32 Screw.

Your Cost

No. 628—Red.....	\$0.08
No. 629—Black.....	.08



BANANA PLUG OR TIP TYPE JACKS



Made to take standard phone cord tips or banana type Plugs. They mount in a 1/4" hole on a panel up to 1/2" in thickness. Available in four different colors.

No. 148—1 1/4" long.

Your Cost..... \$0.16

ICA All Metal Binding Post

Designed for high amperage use and where low resistance connections are necessary on test equipment, etc. Nickel plated brass.



Your Cost

No. 620..... \$0.16

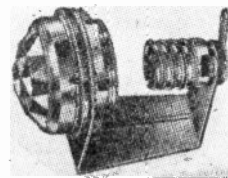
ICA Insulated Binding Posts with Jack for Banana Type Plug

Length 1 3/8" overall when top is up. Extends 5/8" above panel when top is screwed down. Fitted with 8/32 screw 1/8" long, and two hex nuts.

No.	Your Cost
622—Red.....	\$0.20
623—Black.....	.20



JEWEL PILOT LIGHT ASSEMBLIES



910M Series

Requires 1" hole for mounting. Uses standard lamps. Available in assorted colours. Faceted Jewel.

No.	Jewel Size	Base	Your Cost
910MF	1"	Min. Screw.....	\$1.30
910BF	1"	Min. Bayonet.....	1.30
910CF	1"	Candelabra 110V.....	1.30
810MF	1 1/2"	Min. Screw.....	.50
810BF	1 1/2"	Min. Bayonet.....	.50

1/2" JEWELLED BRACKETS

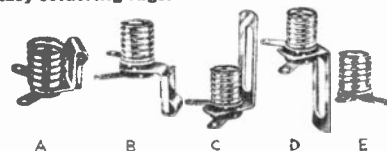


Visual indicators for use on power amplifiers, relay racks, etc. Shows definitely when your equipment is "on". With jewels in assorted colours. Mounts 1/4" hole.

No.	Base	Jewel	Your Cost
510F	Min. Screw	Faceted	\$0.32
610F	Candelabra	Faceted	.35
710F	Min. Bayonet	Faceted	.33

DIAL LIGHT SOCKETS

Cadmium plated brackets. High grade washers. Easy soldering lugs.



No.	Base	Type	Your Cost Each	Lots 25
503	Min. Screw	A	\$0.09	\$1.80
504	Min. Screw	B	.09	1.80
505	Min. Screw	C	.09	1.80
506	Min. Screw	D	.09	1.80
507	Min. Screw	E	.09	1.80
703	Min. Baynet	A	.12	2.30
704	Min. Baynet	B	.12	2.30
705	Min. Baynet	C	.12	2.30
706	Min. Baynet	D	.12	2.30
707	Min. Baynet	E	.12	2.30

110 DIAL LIGHT SOCKETS

No.	Candelabra	Your Cost
603	A	\$0.15
604	B	.15
605	C	.15
606	D	.15
607	E	.15

SIDE CUP SOCKETS



These sockets are Fire Underwriters Approved and they are the clip on type. Each socket comes complete with 2 wires that are attached to the socket and completely insulated.

No.	Your Cost
2030—Screw.....	\$0.16
2031—Baynet.....	.16

EVERYTHING WE SELL IS GUARANTEED

Essential RADIO HARDWARE

HOWARD B. JONES

**BARRIER
TERMINALS**

**FANNING STRIPS
& CLAMPS**

BARRIER TYPE TERMINAL STRIPS



Molded Bakelite Base. Terminals and Binder Screws of brass, nickel plated.

These Barriers do not only make a long leakage path but prevent direct shorts from frayed wires at the terminals. Mounting holes at ends as illustrated.

SIZE OF BINDING HEAD SCREWS

5 40 x 3 16"

8 32 x 5 16"

No.	Your Cost	No.	Your Cost
1-140.....	\$0.14	1-142.....	\$0.27
2-140.....	.22	2-142.....	.45
3-140.....	.30	3-142.....	.64
4-140.....	.38	4-142.....	.82
5-140.....	.46	5-142.....	1.01
6-140.....	.54	6-142.....	1.19
7-140.....	.62	7-142.....	1.38
8-140.....	.70	8-142.....	1.56
9-140.....	.78	9-142.....	1.75
10-140.....	.86	10-142.....	1.93
11-140.....	.94	11-142.....	2.12
12-140.....	1.02	12-142.....	2.30

Also available up to 21 terminals

Also available up to 17 terminals

FANNING STRIPS



These Fanning Strips are designed to fit the 142 Series Barrier Terminal Strip, having the same number of contacts as the prefix of the Fanning Strip.

No.	Your cost	No.	Your cost
2-162.....	\$0.14	8-162.....	\$0.45
3-162.....	.19	9-162.....	.50
4-162.....	.24	10-162.....	.56
5-162.....	.29	11-162.....	.61
6-162.....	.35	12-162.....	.66
7-162.....	.40		

ALSO AVAILABLE UP TO 17 TERMINALS

CABLE CLAMPS

Cable Clamps are available for the Fanning Strips listed at the left and are furnished in 3 different sizes as listed below. Cable Clamp is of Brass Nickel Plated, with 6-32 round head Nickel Plated Screws.

CABLE CLAMP SIZES AVAILABLE

No.	Size
CC-161-4	1 1/4"
CC-161-8	1 1/2"
CC-161-12	1 3/4"
Your Cost ea.	\$0.10

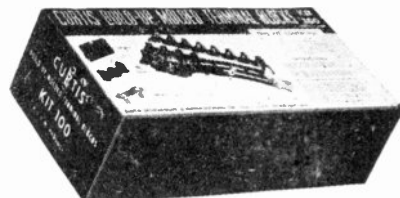
BUILT-UP TERMINAL BLOCKS ASSEMBLED IN 1 TO 24 TERMINALS



Held rigid in a metal channel. Sturdy compact, specially designed for installation to conserve space. Each block has a solid base providing ample insulation from the mounting channel and eliminating entirely the possibility of terminal screws grounding. For use in circuits carrying up to 300 volts, 10 amperes. Number after letter denotes number of blocks the channel will hold.

Terminal Blocks	Your Cost
M-1 to M-6.....	\$0.12
M-7 to M-10.....	.12
M-11 to M-15.....	.15
M-16 to M-24.....	.18

BUILT UP TERMINAL BLOCK KITS



KIT No. CDM-101

(for use with kit No. 100)

Contents

Part No.	Quantity	Description
5	10	End brackets
6	5	End partitions—Left
7	5	End partitions—Right
8	5	10" threaded rods No. 10-32 (cut as required).
9	5	Self tapping screws No. 4 1/4".
10	5	9 1/4" long marking strips.
11	10	Hexagon nuts No. 10-32
12	10	Lock washers No. 10
CDM101		Your Cost.....

KIT No. CDM-100

(for use with kit No. 101)

Contents

Part No.	Quantity	Description
1	50	Center molding
2	49	Partitions, including five Part No. 4 (drilled for self tapping screw).
3	50	Terminal and screw assemblies.
CDM100		Your Cost.....

CABLE CLAMPS

Made of sturdy cadmium plated steel.

No.	Ea.	Your Cost Doz.	C.
1051	\$0.02	\$0.21	\$1.85

INSULATED DUAL GRID CAPS



Both Standard glass tubes and metal tubes. 12" lead has phone tip soldered to the wire.

No. 412.	Your Cost.....	\$0.33
No. 413.	Your Cost.....	.28 less wire

HOWARD B. JONES TERMINAL STRIPS

(Terminals .019" Brass) Tin Plated



Compact and sturdy junction terminal strip. Useful in assembling radio chassis, wiring, etc.,

Insulation: Bakelite. Brackets: Steel, cadmium plated. Terminals spaced on 1/4" centers.

No.	Terminals	Mounting hole centers:	Your Cost per 100
2002	(2)	1"	\$6.40
2003	(3)	1 1/4"	7.00
2004	(4)	1 1/2"	7.60
2005	(5)	1 3/4"	8.20
2006	(6)	2"	8.80

Also available up to 13 terminals.

AERIAL & GROUND CONNECTING STRIPS



AG-76

Insulation: 1/4" Bakelite, 1/4" wide. Mounting centers 1 1/4". Ends rounded. Letters A and G are filled in white.

No. AG-76	Your Cost
	\$0.12

SCREW TYPE TERMINAL STRIPS



Terminals are solder coated brass and mounted on 1/4" bakelite. Screws lock in place and do not drop out when open to their maximum length. Lugs spaced on 1/4" centers.

No.	Lugs	Mounting Centers	Your Cost
1787	1	3/4"	\$0.05
1781	2	1 1/4"	.08
1783	3	1 3/4"	.12
1774	4	2 1/4"	.15
1775	5	2 3/4"	.18
1776	6	3 1/4"	.22
1770	7	3 3/4"	.27
1780	8	3 1/2"	.31

LUG TERMINAL STRIPS



These bakelite strips are handy for supporting resistors, condensers used in all circuits. Solder coated brass lugs are spaced on 3/8" centers.

No.	Lugs	Your Cost
1510-A	2	\$0.04
1520-A	3	.06
1532-A	4	.08
1542-A	5	.09
1540-A	6	.11
1551-A	7	.12
1560-A	8	.13

HEAVY DUTY COPPER TINNED TERMINAL LUGS



1" long and 1/4" Hole. No. 10

Per doz.	Your Cost	\$0.15
Per 100.	Your Cost	1.10

TINNED BRASS LUGS



Any type.

Your Cost	
Per doz.....	\$0.05
Per 100.....	.40

GRID CLIPS



No. 6004



No. 6000

Made of heavy gauge spring brass solder coated

No.	Fits	Your Cost Ea.	Doz.
6000	Metal Tubes	\$0.02	\$0.20
6004	Glass Tubes	.02	.20

WE ARE HEADQUARTERS FOR ALL REPLACEMENT PARTS

Essential RADIO ACCESSORIES

THE CHASS-EZ



Chass-ez is its chief merit. It has special reversible books on one end to handle the flanged type chassis or to tilt the chassis back if necessary. The slide adjustment compensates for chassis width.

- ★ 5 Seconds to install.
 - ★ Takes no more bench room than the chassis.
 - ★ Chassis will not fall.
 - ★ Chassis can be tilted back.
- No. 5207.** Your Cost..... **\$2.92**

STEEL RACKS



An excellent steel rack to hold small bottles, parts and jars, and keep your place in order. 20" long; shelves, 2 1/4" wide; 12" high.

No. 4010. Your Cost..... **\$1.40**

ICA RIVET AND EYELET PUNCH SET



A Universal Tool that can be used for either riveting or eyeletting. Holder is made of cast iron with hexagonal sides, thus permitting the tool to be placed in a vise without slipping.

No. 785—Complete with ample assortment of eyelets and rivets.
Your Cost..... **\$3.20**

RIVET AND EYELET ASSORTMENT

Additional eyelets and rivets can be purchased separately.
No. 5265—(Assortment of 100)..... **\$0.65**

PHONO TURNTABLE SERVICE STAND



Here's what you've been looking for. A simple stand to hold the phono-turntables while you are repairing them. This new G-C stand is 18" high and will fit any turntable. Very simple to clamp on.

This stand raises the turntable high enough so you can "see the works" while it's running. Every Service Shop needs several of these stands.

No. 5205. Your Cost..... **\$5.32**

METALINE RADIO NAILS



These nails make a neat and permanent job for holding inside lead-in and ground wires in place, yet low in price.

	Your Cost
Per Dozen.....	\$0.05
Per 100.....	.35
Per 1000.....	2.50

RUBBER BUMPERS



Especially designed for use with wood cabinets 5/8" diameter. Tack 1/2" long.

	Your Cost
No. 166. Per Doz.....	\$0.20
Per 100.....	1.20

FELT CHASSIS FEET



5/8" High, 1/2" wide. Can easily be screwed in corners of cabinet. With 6-32 thread.

No. 169 —Per doz.....	\$0.45
Per 100.....	3.40

RIVET AND EYELET ASSORTMENT

Special assortment of 100 popular size rivets and eyelets. For riveting sockets and parts to chassis, making electrical connections on appliances, etc. Nickel plated.

No. 1029—100 in Jar. Your Cost **\$0.56**

G-C PLAIN METAL WASHERS



For No. 4, 6, 8, and 10 Screws

No.	Description	Your Cost ea. per 1000
6150	Env. 100 Asst'd Washers.....	\$0.32
6154	No. 4, Washers, Jar 150.....	\$2.00
6155	No. 6, Washers, Jar 125.....	3.16
6156	No. 8, Washers, Jar 100.....	1.80
6157	No. 10, Washers, Jar 100.....	1.88

SNAP BUTTON HOLES PLUGS



Just the thing to plug holes seal adjustments, etc. Fits in any material up to 1/16" thick.

No.	Description	Your Cost
45-1	50 assorted plugs in box.....	\$2.00
45-4	Hole Diameter 3/8".....	.38
45-5	1/2".....	.49
45-7	3/4".....	.55

RUBBER GROMMETS

Ideal for Use in All Types of Electrical and Radio Purposes.

No.	I.D.	O.D.	Your Cost Per Doz.
1113	1/8"	3/8"	\$0.35
1114	1/4"	1/2"	.25
1115	3/8"	1/2"	.35
1118	1/2"	3/4"	.30
1119	5/8"	1"	.30
1120	3/4"	1 1/8"	.32
1121	7/8"	1 1/4"	.33
1122	1"	1 1/2"	.30

ROBERTSON'S SCREWS



ROUND HEAD MACHINE SCREWS

Size	Doz.	Your Cost	Gross
6-32 x 1/4"	\$0.06	\$0.49	
6-32 x 3/8"	.07	.51	
6-32 x 1/2"	.08	.54	
6-32 x 5/8"	.08	.60	
6-32 x 1"	.09	.70	
6-32 x 1 1/4"	.09	.90	
6-32 x 1 1/2"	.10	1.00	
6-32 x 1 3/4"	.12	1.10	
8-32 x 2"	.12	1.20	
8-32 x 2 1/4"	.08	.62	
8-32 x 2 1/2"	.08	.66	
8-32 x 2 3/4"	.08	.70	
8-32 x 3"	.09	.77	
8-32 x 1"	.09	.88	
8-32 x 1 1/2"	.12	1.16	
8-32 x 1 3/4"	.13	1.28	
8-32 x 2"	.15	1.40	



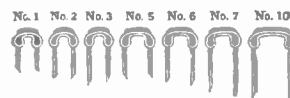
HEXAGON NUTS

No.	Size	Doz.	Your Cost	Gross
5577	6-32	\$0.08	\$0.75	
5580	8-32	.10	.85	

SELF-TAPPING SCREWS

Length	Diam.	Per Doz.	Per Gross
1 1/2"	4	\$0.07	\$0.50
3/4"	4	.07	.52
1 1/4"	6	.07	.52
3/4"	6	.08	.54
1 1/2"	6	.08	.56
3/4"	6	.09	.58
1 1/4"	8	.09	.60
1 1/2"	8	.10	.64
3/4"	8	.10	.68
1 1/4"	8	.10	.72
1 1/2"	10	.10	.74
3/4"	10	.12	.78
1 1/4"	10	.12	.82
3/4"	12	.12	.90
1 1/4"	12	.15	.96
1 1/2"	12	.15	1.08
3/4"	14	.15	1.24
1 1/4"	14	.20	1.48

INSULATED BELL STAPLES



Saddle type insulated staples for holding wires in place and out of the way.

No.	Fig.	Size	Your Cost
1752	Fig. 1	3/16" x 1/2"	\$0.28
1756	Fig. 3	3/16" x 3/4"	.28
1758	Fig. 5	1/4" x 5/8"	.28
1760	Fig. 7	1/4" x 7/8"	.28

STANDARD CARTON 1000 STAPLES

EVERYTHING FOR THE RADIO BUILDER AT C.E.S.

Alignment Tools & Test Prods for Servicemen

ICA NEUTRALIZING TOOL For Push Button Tuners



The socket is $\frac{3}{32}$ " in diameter, and contains a screw driver blade.

No. 1003—Your Cost..... \$0.60

ICA SET TRIMMER NEUTRALIZING TOOLS

For Philco, Zenith, RCA, etc.



Fits the smallest size trimmer condensers. Trimmer end is $\frac{1}{32}$ " diam. to fit $\frac{1}{4}$ " hole.

No. 992—6" long..... \$0.80
No. 933—10" long..... 1.00

ICA ALIGNMENT WRENCH For RCA, Philco, etc.

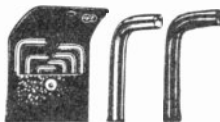


Used on all makes Air Trimmer. Made of $\frac{3}{8}$ " Fenoline Rod—8 $\frac{1}{2}$ " long—one end has hollow shaft hexagon wrench—other end has an especially shaped hook.

No. 1008—Your Cost..... \$1.20

G-C HEXAGON AND BRISTO KEY WRENCHES

Essential Key wrenches for every repair man. Both Hex and Bristo Types made of special alloy steel properly hardened. Used on Knobs, Dials, Motors, Pulleys, etc.



HEX KEY WRENCHES

No. 5029—Kit 6 Hex Key Wrenches for No. 4 to $\frac{1}{4}$ " Set Screws and No. 2 to 8 Cap Screws in Leatherette Case..... \$0.60

BRISTO KEY WRENCHES Spline Type

No. 5070—Kit 6 Bristo Key Wrenches for No. 4 to $\frac{1}{4}$ " set screws and No. 2 to No. 8 cap screws in Leatherette Case..... \$0.60



★ ★
PHONE
FOR
SPEEDY
SERVICE
★ ★

ICA ALL-PURPOSE TEST LEAD KIT Complete For Every Testing Need

Equipped with one pair of test leads which have 60" of red and black kinkless live rubber wire. One end has insulated removable banana-type plugs.

Included in this test kit:
1 pr. test leads.
1 pr. insulated alligator clips—red and black.
1 pr. insulated spade plugs—red and black.
1 pr. insulated needle points—red and black.

No. 1005—Kit, complete. Your cost \$2.80



HIGH VOLTAGE ICA HEAVY-DUTY BAKELITE TEST PROD HANDLES



No. 480—Black Bakelite..... \$0.92

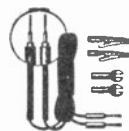


ICA RETRACTABLE TEST LEADS

Prevents accidental shorting. Retractable insulated sleeve upon pressure bares prod tip for contact. Spring action notched tip permits clamping of one leg of circuit while probing with other prod. 48" lead.

No. 448—Your Cost \$1.60

ICA Slim Handle Test Leads



Made of sturdy Bone Fibre Handles. 50" of Kinkless Live Rubber wire. Handles 6" Long—Overall Length 7". Prods have pointed large phone tip plugs.

No. 313—Phone Tips on end..... \$1.00
314—Spade Lugs on end..... 1.00
315—Alligator Clips on end..... 1.12

SPIN AND SOCKET TYPE WRENCHES



For small hexagonal nuts. Hollow stem feature permits removal of nuts on long projecting screws. Offset type handy for reaching into "tight" places.

Nut Size	Straight	Straight	Offset
$\frac{1}{8}$ "	6"	9"	7"
$\frac{1}{4}$ "	6"	9"	7"
$\frac{3}{8}$ "	6"	9"	7"
$\frac{1}{2}$ "	6"	9"	7"
$\frac{3}{4}$ "	6"	9"	7"
$\frac{1}{2}$ "	6"	9"	7"
Each—Your Cost.....			\$0.40
Set of 6—Your Cost	\$1.76	\$2.00	2.00

ICA FLEXIBLE SCREW DRIVER For the Hard to Reach Spots



Allows access to screws in hard to reach and out of the way places. Can go under objects or around corners.

No. 935—Your Cost..... \$1.60

ICA FLEXIBLE SOCKET WRENCH



Especially designed for hard-to-reach spots. Can actually be used around corners or under obstructing objects.

No. 913— $\frac{1}{4}$ " Hex..... \$1.20
No. 914— $\frac{5}{16}$ " Hex..... 1.20

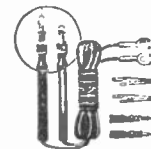


ICA HIGH VOLTAGE HEAVY DUTY TEST LEADS 10,000 Volts

Made of large diameter Bakelite handles with guards to prevent fingers from slipping. Cable 18 gauge, 67/36 tinned copper, with heavy walled rubber covering. Prods 6" long with 50"

red and black cable and 2" Bakelite Prods on either end.

No. 475—Your Cost..... \$3.20



ICA HEAVY DUTY LABORATORY TEST LEADS

Long Slim Handles and Removable Phono Needle Chuck Extra long slim red and at end for finger grip ease. Handles 6" long. 50" of heavy duty kinkless, flexible rubber wire

No. 400 With knurled grip handle. Insulated solderless plug..... \$1.32
388—With alligator clip..... 1.20
391—With spade lugs..... 1.12
392—With non insulated phone tips..... 1.12

ICA SOLDERLESS PLUG TEST PRODS with Solderless Plug Chuck



No. 390R—Red— $\frac{5}{16}$ Inch Prods..... \$0.32
No. 390B—Black— $\frac{5}{16}$ Inch Prods..... .32
No. 335R—Red— $\frac{7}{16}$ Inch Prods..... .40
No. 335B—Black— $\frac{7}{16}$ Inch Prods..... .40

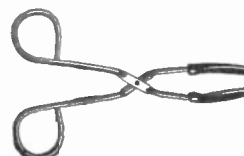
ICA SQUARE HOLE SHEARING PUNCH

This new punch permits the cutting of any size odd-shape hole (square rectangular, hexagon, oblong, etc.) on any size panel or chassis. Good for Enlarging or punching TRANSFORMER Holes.

No. 790—Your Cost... \$13.20



TUBE EXTRACTOR



Expertly designed and skillfully made of sturdy spring steel, cadmium plated.

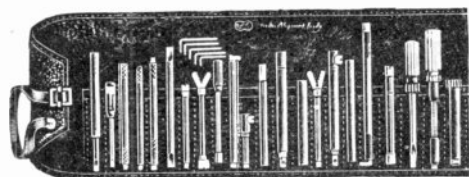
Molded soft neoprene cushion over the two claws offers the maximum in tube protection.

Suitable for removing all makes and sizes of tubes. Will not damage tube socket or shield. Permits gentle and quick manipulation from any angle.

No. 1001—Your Cost..... \$1.68

INQUIRES WELCOMED ON ITEMS NOT CATALOGUED

Radio Alignment Tools



Kit Contains the following tools

1-5000	1-5003	1-5011	1-5015	1-5018	1-5032	1-5051	1-5081	1-5085
1-5001	1-5004	1-5012	1-5016	1-5019	1-5033	1-5053	1-5082	1-5086
1-5002	1-5005	1-5013	1-5017	1-5031	1-5034	1-5056	1-5083	1-5087
					1-5035	1-5057	1-5084	

Kit No. 5024—In leatherette roll-type case—Your Cost..... \$15.96

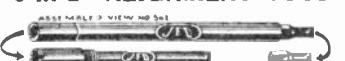
"4-in-1" ALIGNMENT TOOL



Contains four handy tools— $\frac{1}{4}$ " hex wrench with key slot on one end, $\frac{3}{16}$ " hex wrench on other end, screwdriver with metal nib comprises insert. Sturdy bone fibre.

No. 5-61—Your Cost..... \$0.80

"5-in-1" ALIGNMENT TOOL



Contains five handy neutralizing tools— $\frac{1}{4}$ " hex wrench with key slot, $\frac{3}{16}$ " hex wrench, screwdriver with metal nib insert and heavy metal screw-driver nib on one end. Durable bone fibre.

No. 5-62—Your Cost..... \$1.08

ALL-PURPOSE TOOL



Made of tough bone fibre. Combination tool contains $\frac{1}{4}$ " hex wrench with key slot, $\frac{3}{16}$ " hex wrench, $\frac{1}{16}$ " metal hex side wrench with key slot, inserted screw-driver with metal nib.

No. 5-63—Your Cost..... \$1.08

"MAGIC" TUNING ALIGNMENT TOOL



Consists of a Bakelite rod with a Brass cylinder at one end, and a special iron core at the other end. Proper adjustment is evidenced by a reduction in output with either end of the alignment tool inserted into the coil.

No. 977—Your Cost..... \$0.80

HEXAGON FIBRE NEUTRALIZING TUBES



When the hexagon wears out it can be cut off and used again. $\frac{1}{4}$ " diameter.

No.	Length	Your Cost
2502	6"	\$0.28
2504	10"	0.42

BONE FIBRE SCREW-DRIVER



Double edged — No Metal — Fully insulated. Ideal for neutralizing and adjusting Radio sets, coils, etc.

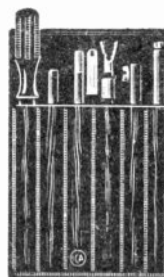
No. 1039—Your Cost..... \$0.32

PROFESSIONAL ALIGNMENT KIT

A complete set of alignment and neutralizing tools that every Radio Serviceman and Professional man should own. Contains every tool necessary to service any set. Supplied in leatherette roll-type case.

DE LUXE NEUTRALIZING AND ALIGNING TOOL KIT

Complete for Every Service Need

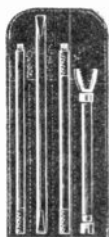


Consists of fourteen tools, most of which telescope into one another, forming six units when assembled into the attractive black leatherette case.

The complete kit in carrying case can be kept in the pocket. Tools complete with carrying case.

No. 994—Your Cost \$6.00

VEST POCKET ALIGNING KIT



A very handy all purpose aligning kit in leatherette case.

Kit contains.....

1-5012 Alligator and Hex wrench.

1-5000 Screwdriver.

1-5003 RCA Screwdriver.

1-5004 Screwdriver.

No. 5022—Kit.

Your Cost..... \$2.82

ALLIGATOR ALIGNMENT WRENCH



Made to fit knurled and hexagon nuts up to $\frac{3}{4}$ " diameter. Also has screwdriver on other end for adjusting trimmers. Size 6" x $\frac{1}{4}$ ".

No. 805.—Your Cost..... \$0.40

NEUTRALIZING TOOLS WITH METAL TIPS



Metal tips are hexagon broached for $\frac{1}{4}$ " and $\frac{3}{16}$ " nuts. Screwdriver inside is $\frac{7}{32}$ diameter to fit inside of coils for compensating. An ideal 3 in-1 combination tool.

No. 2500.—Your Cost..... \$1.00

DE LUXE ALIGNING TOOL KIT



A very complete kit that will take care of most sets. Easy to carry. Supplied in roll-type leatherette case.

KIT CONTAINS

1-5001 Tool	1-5011 Tool	1-5053 Tool
1-5003 Tool	1-5016 Tool	1-5056 Tool
1-5004 Tool	1-5017 Tool	1-5057 Tool

No. 5023—Kit. Your Cost..... \$5.00

UNBREAKABLE VOLUME CONTROL WRENCH



Transparent handle. Guaranteed shockproof. Stem is made of hardened steel, and will accommodate shaft up to $\frac{3}{16}$ " long by $\frac{1}{4}$ " O.D. Socket is $\frac{1}{8}$ ".

No. 937—Your Cost..... \$1.40

NARROW SHAFT ALIGNMENT WRENCH



Combination socket wrench and screwdriver on bakelite shaft which is only $\frac{7}{32}$ " in diameter

No. 820—Your Cost..... \$0.65

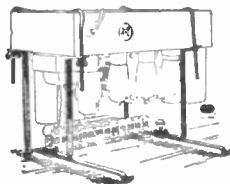
HANDY BENCH ACCESSORIES

RADIO CHASSIS GUARDS

"The Answer to the Radio Man's Problem!"

Inexpensive guards that protect the chassis and tubes. When working, chassis can be turned in any position without damage to set or tubes. Adjustable to fit all sets

No. 709. Complete, Per Pair. Your Cost... \$1.80

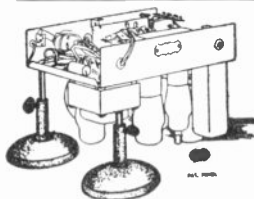


NEW! CHASSIS JACKS

"Convenient Tool to Keep on the Bench"

Chassis Jacks are adjustable to fit any set, or any condition. Made of metal, neatly finished with wrinkle paint, and superior to any type of wood props. Take very little space, and are very convenient.

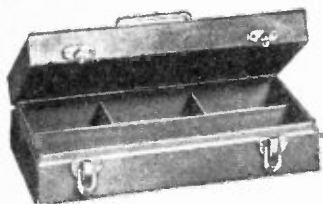
No. 711. Your Cost Per Pair... \$1.56



BUY NOW - KEEP YOUR STOCK UP TO DATE

UTILITY SERVICE Boxes

LIGHT TOOL BOX



Has four compartments and can be used for keeping your small parts and hand tools within easy reach. Very handy to carry with you. Moss green enamel finish, electric spot welded construction. Size 14" x 6" x 3 1/2".

No. 3

Your Cost..... \$1.41

LOOSE TRAY TOOL BOX



Full sized loose tray provides easy access to larger tools in bottom... plenty of room without the inconvenience of great bulk. Machine rivetted fittings, moss green enamel finish. Size 14" x 6 1/2" x 6".

No. 5—Your Cost... \$2.10

No. 6—Your Cost... 2.90

19" TWO CANTILEVER TOOL & SERVICE KIT



Everything in the box is at your fingertips when the box is opened... by means of a cantilever double automatic, trays lift into position when the cover is opened. Ideal for the serviceman. Matched rivetted fittings, nickel plated hardware. Finished in drab green wrinkled enamel. Size 19" x 6" x 7".

No. 7—Your Cost..... \$4.84

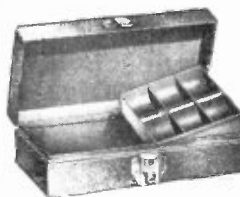
ECONOMY CHEST



Drawers slide easily on super-compound drawer slides that are stopped only after the drawers are fully extended, giving a clear view of the contents. Tilt in top and seven drawers, strongly reinforced welded construction with boxed ends and front which fits against drawers and locks entire case with the lid. Adjustable partition in each drawer except bottom one, Seal brown ripple baked enamel finish. Nickel silver hardware with sixty change lock. Dimensions 20" x 8 1/2" x 13".

No. 520

Your Cost..... \$23.40



MIDGET TOOL BOX

A real value setter! Has removable six compartment tray in which you can keep your handiest tools and accessories. Finished in moss green enamel, has electric spot welded construction. Size 11 1/2" x 6" x 3 1/2".

No. 2T—Your Cost..... \$1.58

UTILITY CHEST



Has automatic Tray with three compartments for small parts and hand tools, and the lower part for your bigger items. Ideal for outside service jobs. No serviceman should be without one. Finished in moss green enamel, electric spot welded construction. Size 14" x 6" x 5".

No. 4—Your Cost. \$1.69

REPAIRMAN AND MECHANIC'S KIT



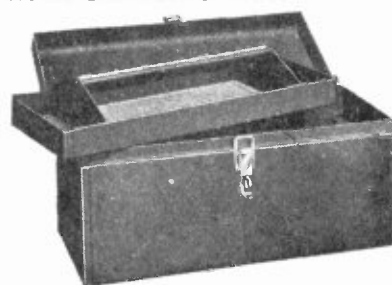
Ideal kit for household use. Double seamed ends, full length piano hinge, and corner irons feature this solidly constructed box. SC16 and SC19 have cantilever swing tray. Fastened with draw bolt, hasp and staple. Finished in mar-proof green, baked ripple enamel.

No.	Size	Your Cost
CS16	16 x 7 x 7"	\$4.16
CS19	19 x 7 x 7"	4.60

TOOL KIT WITH CARRYING TRAY

A convenient all-purpose tool kit with divided carrying tray. Equally handy for shop or home use. Tray has three separate compartments for tools or small parts and is divided as follows: one compartment 13 7/8" x 7 7/8", two compartments 2 3/4" x 7 7/8". A piano-type hinge extends the full length of the lid and the box is locked by means of draw bolt, hasp and staple. Dark green ripple baked enamel finish.

Model K-20—
Your Cost..... \$6.25



GENERAL MECHANIC'S KIT

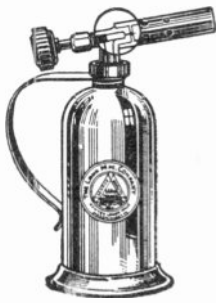
"A Favorite Amongst Technicians"
The four trays of this fine kit are linked to the lids in such a way that they swing out of the kit smoothly and easily as the lids are opened. Strongly reinforced throughout and with skid rails along bottom. Seal brown ripple finish outside, and dark green smooth inside.

No.	Size	Your Cost
1018	18x10x12 1/2"	\$11.45



PERFECT MERCHANDISE - PROMPT SHIPMENT - PERSONAL SERVICE

SERVICE COATS AND BLOW TORCHES



LENK HI-HEAT BLTORCHES

Heavy duty blotorches that assure matchless performance. Generates quickly. Tank is of heavy gauge seamless drawn brass, with funnel shaped bottom for easy filling. Sturdy construction.

Featuring:

1. Flame Control and Shut-off Valve.
2. No Evaporation of Fuel.
3. Self-Cleaning Orifice.
4. No Loss of Pressure.
5. Non-Clogging Burner.
6. Height 7 1/2" x 3" diameter.

No. 104 for use with Gasoline. Your Cost \$3.00
No. 105 for use with Alcohol. Your Cost 3.25

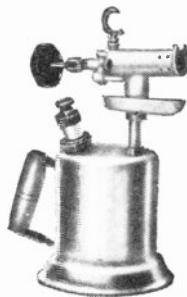
LENK ALCOHOL LAMPS

A Portable Laboratory unit.

The Lenk Utility Alcohol Lamp may be carried in kit without fear of spilling or breaking. Constructed of seamless drawn brass. Features a funnel shaped base for easy filling. Will not boil over or corrode. Heavy threaded cap prevents evaporation of alcohol.

Fully Guaranteed—1/2 Pint Cap

No. 25—Your Cost \$2.25



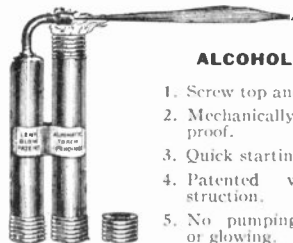
LENK GASOLINE BLTORCH

Quart Capacity

Especially designed burner that gives maximum efficiency and hot blue flame. Taper design needle valve prevents enlargement of orifice. Heavy gauge seamless brass tank. Bottom fill type and lock-tite, leak proof heavy duty pump.

No. 645—Your Cost \$3.85

LENK AUTOMATIC BLTORCH



ALCOHOL TYPE

1. Screw top and bottom.
2. Mechanically leak proof.
3. Quick starting.
4. Patented wick construction.
5. No pumping, priming, or glowing.

No. 108—Your Cost \$1.75

THE CHAMPION



Automatic Alcohol Bltorch

Mechanically fool-proof. All parts interchangeable. Built to last a lifetime. Blows itself. Burns 3 hours on one filling. Starts in 20 seconds. Size 7 1/4" x 4 1/2" x 2". Cleaning pin attached.

Your Cost

No. 30 \$4.00

DUO-DUTY ALCOHOL BLTORCH

Double burner—one for a needlepoint flame—add the attachment for a heavy intense flame. Practical for fusing large terminal lugs and heavy duty soldering jobs. Size 7 1/2" x 5 1/2" x 2 1/4".

No. 350—Your Cost \$4.50

MOUTH TYPE BLTORCH



ALCOHOL TYPE

Funnel base for easy filling. Wick is encased in special tube to prevent boiling over of fuel. 15" rubber tubing. Size 3" x 6 7/8".

No. 20—Your Cost \$3.25
No. 40 Heavy duty. Size 8 1/2" x 2 1/4" Your Cost 4.25

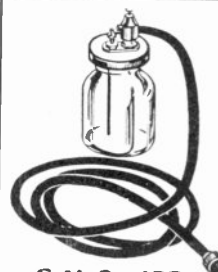
DELUXE TOUCH UP SPRAYER



G.M.Co 17 DeLuxe

This sprayer is designed to operate perfectly with very low pressure from spare tire or any other air container. Sprayer equipped with air tight brass valve, adjustable brass spray tip, rubber hose and two 4 oz. jars, packed one outfit box.

No. 17—Deluxe. Your Cost \$1.50



JUNIOR TOUCH UP SPRAYER

This sprayer operates same as our DeLuxe model but is equipped with only one 2 oz. jar.

Your Cost

No. 17B \$0.90

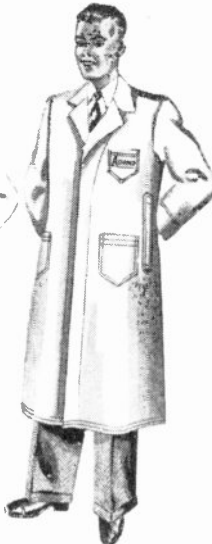
G.M.Co 17B

WASHABLE SERVICE COATS AND SHOP APRONS

PRACTICAL, SERVICEABLE, ECONOMICAL



Style BA 2



Style 615



Style 630



Style 510

Style 510. Sack Coat. Combines good looks with ability to stand hard wear. Detachable pearl buttons to match coat. Made in choice of Sand, Grey, Navy, Black or White sturdy Drill.

Your Cost \$4.26
 Coloured 4.65

Style 512. Similar to Style 510, but with pleated pockets and back. Made in Sand, Grey, Navy or White Drill.
 Your Cost \$4.21—Coloured \$5.05

Style 630. Lapel collar crossover Service Coat. Roomy pockets and wrap around belt. Made in White, Sand or Grey Drill.
 Your Cost \$6.00

Embroidered Pockets. Your name or monogram attractively embroidered in fast color. Choice of block or script styles. Color choice: Black, White, Navy, Green, Red, Maroon or Gold.
 Your Cost \$0.60

Style BA11. Shop apron made in heavy cotton of good quality material. Detachable tie tape.
 Your Cost \$1.66

Style 615. Pinch Back Service Coat, full length and width assures wearer of complete protection. Belted back, concealed snaps, fly front. Side openings allow access to trousers pockets. Made in Sand, Grey, Navy or White sturdy drill.
 Your Cost White \$7.75—Coloured \$6.50

How to Order. Order by number and color. Specify chest, sleeve length and collar size. When ordering embroidery, write name or monogram clearly and mention your choice of style (block or script) and your choice of color.

QUALITY SOLDERING EQUIPMENT

KESTER FLUX-CORE SOLDER



Just the unit for the radio fan, amateur, or serviceman's kit. Easy to use, saves time or labor, and always makes a perfect job that's lasting. Exclusively used by all the large manufacturers.

Size	YOUR COST		
	Rosin Core	Acid Core	Aluminum Solder
Small Tin...	\$0.25	—	\$0.28
1 lb. Spool...	1.09	\$1.09	3.00
5 lb. Spool...	5.20	5.20	—

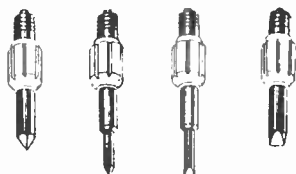
KESTER SOLDERING PASTE



A new improved soldering paste. Does a clean, non-corrosive job of soldering. Uniform quality makes it ideal for radio and electrical work.

2-oz. Tin. Your Cost..... \$0.15

UNGAR PENCIL TYPE SOLDERING IRON



Designed for delicate precision work on intricate hard-to-reach soldering jobs. Weighs only 3.6 ounces. Draws 18 watts, length 7".

No. 776 Handle Cord Set, 6 ft. cord, For use with all tips
Your Cost..... \$1.28

No. 536 Pyramid tip
Your Cost..... 1.28

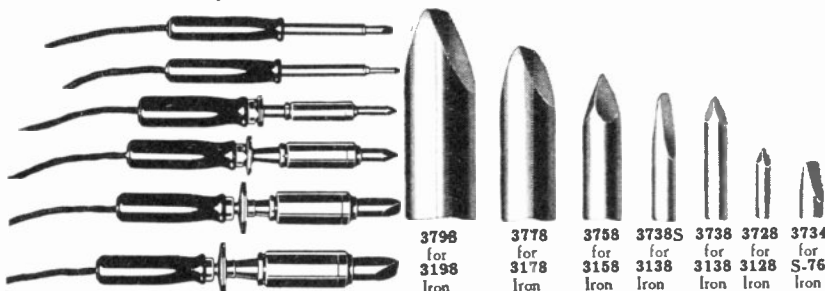
No. 537 Elkaloy tip $\frac{1}{8}$ " diam.
Your Cost..... 1.28

No. 538 Chisel tip $\frac{1}{8}$ " diam.
Your Cost..... 1.28

No. 539 Tellurium tip—"Extra Hot"
Your Cost..... 1.28

New American Beauty "ELECTRICAL SOLDERING IRONS"

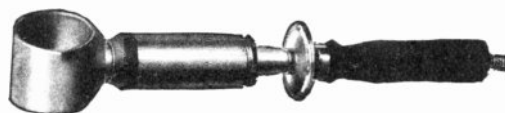
America's most famous soldering iron. Constructed of the finest materials, with special baffle plate at the shank to prevent the free conduction of heat to the handle. Super-flexible heater cord designed to withstand rough handling. Stands supplied with all irons. Will operate on either A.C. or D.C.



Iron No.	Watts	Net Weight	Diam. of Tip	Tip No.	YOUR COST		
					Iron Complete	Tip only	Element only
S-76	50	6 oz.	$\frac{1}{16}$ "	3734	\$ 5.39	\$0.32	\$3.40
3138	100	16 oz.	$\frac{3}{16}$ "	3738-3738S	8.64	.53	4.10
3158	200	28 oz.	$\frac{5}{16}$ "	3758	10.34	1.16	5.45
3178	300	42 oz.	$\frac{7}{8}$ "	3778	13.79	2.00	7.38
3198	550	60 oz.	$1\frac{1}{8}$ "	3798	18.00	2.31	9.71

MELTING CUPS (OR LADLES)

Designed to fit four standard sizes of "American Beauty" soldering irons. Used for melting small quantities of tin, lead, solder, wax, etc. Ready for use by merely removing regular copper tip and in its place inserting shank of the cup.



Cat. No.	Will fit Iron No.	Capacity Solder	Inside of Cup		Your Cost
			Diam.	Depth	
3638	3138	3 oz.	1"	$1\frac{1}{8}$ "	\$1.47
3658	3158	12 oz.	$1\frac{1}{2}$ "	$1\frac{1}{2}$ "	2.45
3678	3178	17 oz.	$1\frac{3}{4}$ "	$1\frac{3}{4}$ "	3.39
3698	3198	30 oz.	2"	$2\frac{1}{8}$ "	4.90

TEMPERATURE REGULATING STAND



"Thermostatically controlled." Iron, when placed on stand, can be maintained at any desired temperature by use of a thermostat. Designed for use with irons up to 600 watts consumption and for use on circuit up to 240 volts A.C. only.

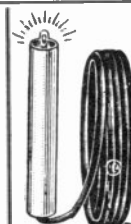
No. 475 Your Cost..... \$5.43

ICA SNAP-ON SOLDERING IRON HOLDER



Fits on all makes and size irons. Can be snapped on to the barrel of any soldering iron so that iron and stand become a single unit, and iron can be left on constantly. Raises iron about 2" from work bench. Prevents fire damage.

Your Cost..... \$0.36



ICA TEST-LITE

Provides a steady, bright light—without annoying flickering—for dark, narrow spaces around chassis, cabinets, etc. Plugs into any A.C. or D.C. socket, 105-125 volt, $4\frac{1}{2}$ ft. cord. Includes standard 6 volt lamp, No. 47, 15 amp., and plug complete.

No. 938—Your Cost \$1.20

CANADIAN ELECTRICAL — THE NAME THAT MEANS EVERYTHING IN RADIO



Esico SOLDERING IRONS and SOLDERING NECESSITIES



NEW ESICO ELECTRIC SOLDERING IRONS



Green Label soldering irons are exclusively of high grade value. Fitted with one piece blued steel dark cases with heat radiating flanges. Rich mahogany handles. Plug type tips held by a screw. Supplied with 6' cord. Operates on 110-220V A.C. or D.C. Nick-Nack available 105-120V only.

GREEN LABEL IRONS

Type	Watts	Your Cost \$ Complete	Your Cost \$ Element	Your Cost \$ Tip
415 Nick Nack	55W	1.65	.65	.30
416 Midget	65W	2.50	1.15	.30
417 Junior	100W	3.35	1.65	.30
418 Trophy	130W	4.15	2.10	.45

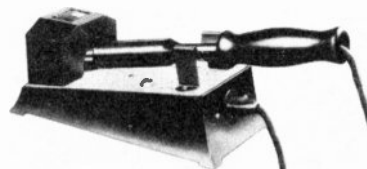


Depend on Orange Label Line soldering irons. Ruggedly constructed. Elements and other parts are easily replaced. Tips are the plug type held by a screw. Supplied with 6' cord and metal stand. Operates on A.C. or D.C. 110-220V.

ORANGE LABEL IRONS

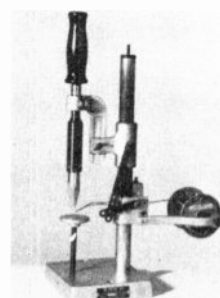
Type	Watts	Your Cost \$ Complete	Your Cost \$ Element	Your Cost \$ Tip
62	60W	3.75	1.45	.30
63	100W	4.70	1.90	.40
64	130W	5.65	2.60	.50
65	200W	6.60	2.95	.80
67	300W	7.55	3.35	1.40
69	500W	8.50	3.70	1.95

THERMOSTATIC TEMPERATURE Control Stand



Use of this unit makes it impossible to overheat iron or burn off its tin. Iron can be maintained at any desired temperature while in stand. When removed from control, full current is instantly applied to iron. For irons with up to 1" diam. tips.

Your Cost..... **\$6.20**



ESICO SOLDERING MACHINES SPEED UP OPERATIONS

Ideal for work where both hands are required and where solder cannot be hand applied.

A treadle operated machine which advances the iron straight downward.

Solder is fed forward as iron returns from work.

Feeding of solder may be exactly regulated by adjustment of pawl lever which actuates feeding gears. Also by the diameter of solder (up to 1/8").

Feed tube guides solder to desired point.

The average industrial iron is adaptable to the machine.

Model F. Complete with chain and treadle (but without iron)

Your Cost..... **\$21.00**

SEMI-AUTOMATIC

This model is identical with Model "F" except that it does not have the solder feeding mechanism.

Ideal for jobs where both hands are required for handling work, but where one hand can be relieved to apply solder.

Model N. Complete with chain and treadle (but without iron)

Your Cost..... **\$10.50**

ESICO SOLDER POTS



Ruggedly constructed and can be screwed to benches. Pilot light indicates when pot is heating. Elements are easily replaced.

Model 12: Size 1 1/2" x 1 1/2". Capacity 3/4 lb. Wattage 200.

Your Cost—60 cy. or 25 cy.... **\$6.30**

Model 36: Size 2 1/2" x 1 3/4". Capacity 2 1/4 lbs. Wattage 250.

Your Cost—60 cy. or 25 cy.... **\$7.70**

Model 60: Size 3 1/2" x 1 1/8". Capacity 3 3/4 lb. Wattage 325.

Your Cost—60 cy. or 25 cy.... **\$9.10**

STEEL STOCK CABINETS



Ideal steel drawer type cabinet for Radio Parts, etc. Made so cabinets can be stacked on top of each other. Size, 13 1/2" long; 6" wide; 4" high.

No. 4001. Your Cost..... **\$2.00**

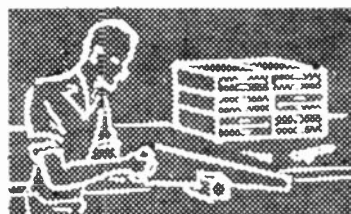
TWO DRAWER ALL-PURPOSE UTILITY CABINET FOR 101 USES

ALL NEW... Fits a multitude of purposes... Universal Appeal... Unique Sectional Design. Permits use of one or more cabinets as required. The adding of additional cabinets as needed.

Made of heavy gauge steel. Finish in light oak wrinkle baked enamel.

Lower Drawer: Partitioned into 12 compartments.

Upper Drawer: No Partitions.



Ideal for:

- ★ Stores ★ Offices ★ Garages
- ★ Factories ★ Tool Rooms
- ★ Radio Service, etc.

Size: Length 11 1/2", Width 9 1/2", Depth 5 1/2".

No. 107—Your Cost..... \$2.95

FOR FASTER SERVICE ORDER FROM OUR NEAREST BRANCH

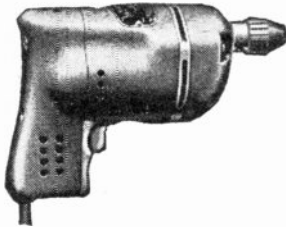
ELECTRIC DRILLS

FOR EVERY
NEED



BLACK AND DECKER ELECTRIC HOME-UTILITY TOOLS

1/4-INCH PORTABLE ELECTRIC DRILL

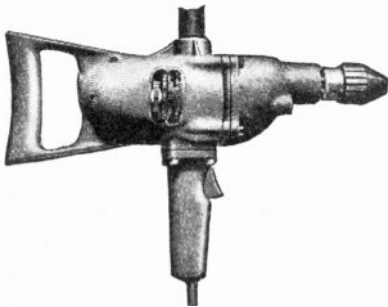


For installations, building, repairs, etc., there are hundreds of "odd jobs" for this practical 1/4" Electric Drill. Only 7 5/8" long, weighs only 3 1/4 lbs.; has a no-load spindle speed of 2,250 r.p.m.; completely equipped with 3-jaw Jacobs hex-key chuck, instant-release switch, 3-wire cable and plug. Universal motor for operation on 110 v. AC or DC. Capacity in steel 1/4".

Your Cost

Model HU-1 1/4" drill..... \$23.25

1/2-INCH PORTABLE ELECTRIC DRILL



For all kinds of drilling—in all kinds of material—in all sizes from 1/8" to 1 1/2". Drives wood-augers up to 2 1/2"; hole saws up to 2 1/2". Only 15 5/8" long, weighs 9 1/2 lbs.; no-load spindle speed of 375 r.p.m.; equipped with a 3-jaw Jacobs hex-key chuck, instant release switch, 3-wire cable and plug and pipe handle. Universal motor for operation on 110 v. AC or DC

Model HU-20 1/2" drill

Your Cost.....\$44.25

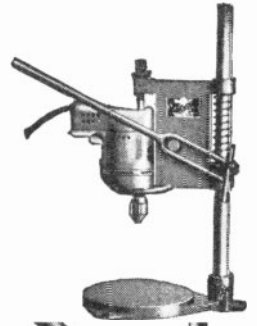
BENCH STAND

For 1/4" Portable Electric Drill

A time-saving, work improving addition to your drill equipment. Drill fits into the stand easily and quickly; takes only a few seconds to have a smooth, accurate Drill Press. Bracket can be adjusted to any height from the base and swung around to any desired position. Wt. 11 1/4 lbs. Ht. 19 7/8".

Model HU-2300 1/4" Bench Stand only—

Your Cost..... \$15.95



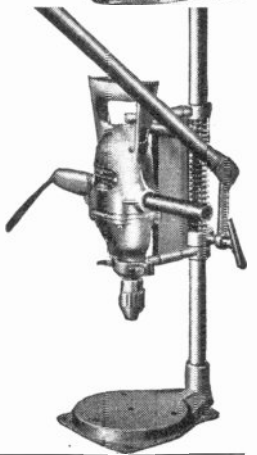
BENCH STAND

For 1/2" Portable Electric Drill

This stand will pay dividends as an added piece of drilling equipment in the shop. Base of stand is shaped to provide a flat work surface, drilled so that clamps can be used to secure the work. Bracket slides up and down to suit the size of work and can be swung to any position, on or off the base. Weight 15 3/4 lbs. Height 29".

Model HU-2301 1/2" Bench stand only—

Your Cost..... \$24.25



SIGNAL PORTABLE ELECTRIC DRILLS

Motor — Universal A.C. or D.C. 25-60 cycle 110v.

Chuck — Almond 3 jaw with key.

Brushes — Accessible for outside.

Switch — Trigger type in handle

with lock for continuous operation.

Cord — 3 wire rubber cord protected.

1/4" STANDARD AND LIGHT DUTY

Capacity in Steel 1/4" — Capacity in Hardwood 1/2"



No. OB-8, Size 1/4", Speed 2950, Wt. 5 1/2 lb.

No. OB-4, Size 1/4", Speed 1700, Wt. 7 1/4 lb.

For general maintenance, construction and building work the OB-4 standard duty drill gives dependable service.

Popular with electricians, carpenters, machinists and repairmen.

The OB-8 light duty drill is designed for intermittent service. Good, high quality product, properly balanced, with an air-cooled handle having a comfortable grip.

Light in weight, it is especially adaptable for radio repair work.

Your Cost..... \$33.50

Your Cost..... 39.40

1/2" STANDARD DUTY

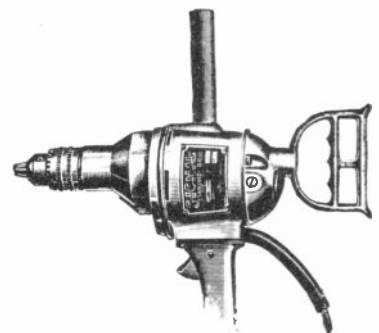
The SIGNAL Standard Duty 1/2" drill has everything you desire in a good drill—power, proper speed, correct balance, high quality construction and right price. Recommended for general production, garage and maintenance work.

Speed: 400, Wt. 14 lb., Capacity in steel 1/2".

Speed: 400, Wt. 14 lb., Capacity in Hardwood 1".

No. OB-5 1/2" drill.

Your Cost..... \$63.00



EXPANSIVE BITS



No. 48

A finely made and beautifully finished bit of the Clark Pattern, with spurs, cutting edges, throats, screws and cutters designed to function in unison to give a fast, clean cutting bit. Each bit equipped with two cutters.

Cap.

No. 47 1/8" - 1 1/2" Your Cost..... \$3.00

No. 48 1/8" - 3" " " 4.60

TAPS



Thread

Size

4-32"

4-36"

4-40"

6-32"

8-32"

10-24"

10-32"

11-24"

For use

with drill

3/32"

3/32"

3/32"

7/64"

9/64"

5/32"

5/32"

3/16"

Your

Cost

\$0.50

.50

.50

.50

.50

.50

.50

.60

TWIST DRILLS

Carbon steel



Size

Your

Cost

Size

Your

Cost

1 7/8"..... \$0.25 9 3/2"..... \$0.50

5 3/2"..... .25 5 1/4"..... .60

3 1/6"..... .30 11 3/2"..... .70

7 3/2"..... .35 3 8"..... .80

1 4"..... .40

USE OUR ORDER BLANKS FOR FASTEST POSSIBLE SERVICE

THE *SpeedWay* BLUE LINE *

DRILL AND GRINDER KIT

THE No. 250 KIT

Consists of Speedway No. 69 Drill and No. 129 Grinder and 5 accessories—2 grinding wheels, 1 cutting burr, scratch brush and drill bit, all mounted in a fitted steel carrying case.

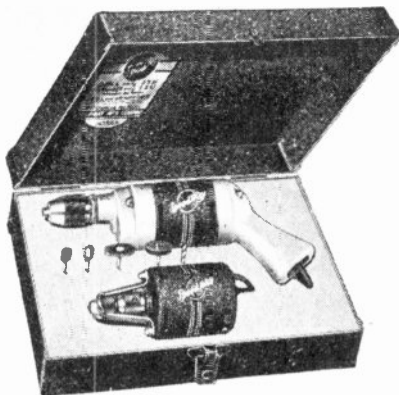
Combined Kit **No. 250**

Your Cost **\$31.88**
Write for information on complete line of grinding wheels, steel cutting burrs, brushes, etc.



The No. 69 Drill—Beautifully enamelled steel case, powerful Speedway Motor—correct drilling speed, 1000 R.P.M. Handles $\frac{1}{4}$ " in steel. 115 volt A.C. D.C. 60 cycle.

No. 69. Your Cost **\$17.70**

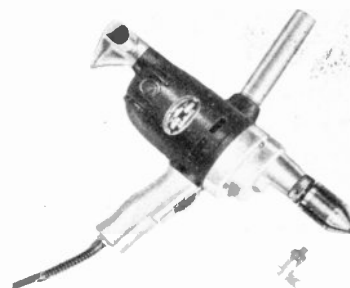


$\frac{1}{4}$ " DRILL *SpeedWay* POWERFUL GRINDER



The No. 129 Grinder Correct design permits maximum visibility and efficient operation. Same powerful air cooled Speedway motor used in drill. 20,000 R.P.M. 115 v. A.C. or D.C. 60 cycle only.

No. 129. Your Cost **\$12.38**

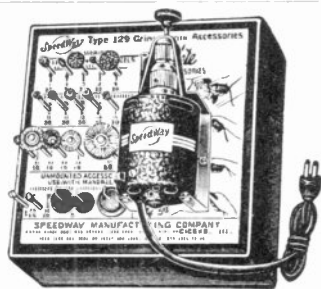


$\frac{1}{2}$ " Drill with Powerful Universal Motor

UTILITY $\frac{1}{2}$ " DRILL—A $\frac{1}{2}$ " capacity drill, with every advanced feature. Motor pours power thru triple reduction hardened steel gears.

Forced air cooling prevents overheating. Drilling a $\frac{1}{2}$ " hole in iron with 500 lb. weight on the bit. Chuck is improved self-tightening snap release type. 110 Volt AC—DC. 60 cycle only.

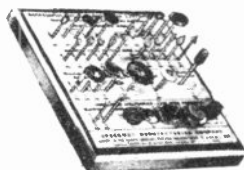
No. 89—Your Cost **\$44.93**



GRINDER KIT

In a permanent fitted board that sets on bench or mounts on wall. Complete with one 129 Grinder in snap on bracket, 6 stones, 5 Cutters, 4 Bristle and 1 Wire Brush, 2 Mandrels, 2 Rubber Wheels, 12 Sanding Discs.

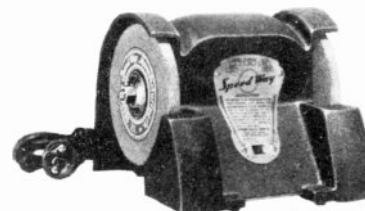
No. 129 and GA Kit. Your Cost ... **\$20.93**



GRINDER ACCESSORIES

A complete line, including mounted stones, steel cutting burrs, wire brushes, bristle brushes felt wheels, rubber wheels, heavier discs, collars and mandrel. Has exact accessories for "100" different jobs. This board (7"x7"x1") occupies a minimum space on bench or wall.

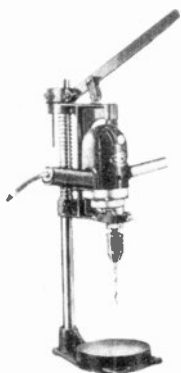
No. 134—Your Cost **\$17.63**



PORTABLE BENCH GRINDER

Powered by a newly developed Speedway AC motor with more than triple the power of a prewar model. Wheels and motor—fully guarded—are encased in a cast housing finished in blue. Base has rubber feet. Available in 115 volts A.C. only.

No. 117—Your Cost **\$22.43**



SpeedWay

DRILL STAND No. 209

Stand is lever operated, sturdily built with machined and ground base, and has ears for bolting to bench. The drill bracket is cast in one piece, is line bored and holds the drill rigidly accurately perpendicular in all positions. Drill and bracket can be instantly adjusted for height with two thumb nuts. With this bracket a No. "89" Drill makes a convenient, accurate and serviceable Drill Press.

No. 209, Stand only—Your Cost **\$19.43**

DRILL STAND—No. 229

An all-purpose stand designed for use with the Speedway No. 69 Drill and No. 129 Grinder. Converts the Drill into an accurate and complete Drill Press and the Grinder into a Router.

No. 229, Stand only—Your Cost **\$7.88**



MAKE CANADIAN YOUR ELECTRICAL SUPPLY HEADQUARTERS



The Deluxe Handee Grinder has a Universal Motor for AC or DC, 25/60 cycles, a speed of 25,000 r. p. m. and weighs 12 ozs. Streamlined design.

No. 3010 Deluxe Set has an assortment of 27 of the most popular set of accessories. Packed in wooden carrying case. **Your Cost..... \$33.50**

EXTRA ACCESSORIES; steel cutters, mandrels, and mounted wheels. Write for descriptive folder.



HU-1002

HU-1001

BUFFING & POLISHING KIT

Contains accessories necessary for cleaning, buffing removal of rust and many other items. **Each kit contains:**

- 1-3" Cotton Buffing Wheel (1/2" Arbor Hole)
- 1-4" Coarse Wire Wheel Brush (1/2" Arbor Hole)
- 1-3" General Purpose Grinding Wheel (1/2" Arbor Hole)
- 1 Tube Polishing and Buffing Compound
- 1 Wheel Arbor (1/2" Diam. 1/4" Shank)

No. HU-1002—Buffing & Polishing Kit Complete with above items. **Your Cost... \$6.00**

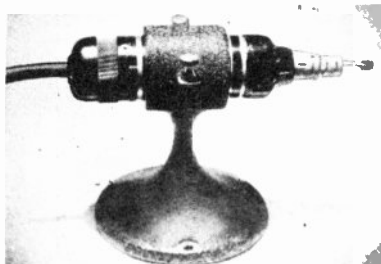
ABRASIVE KIT

Each kit contains:

- 6-1" Dia. x 1" Long Abrasive Bands (3 coarse, 3 fine)
 - 6-3/4" Dia. x 3/4" Long Abrasive Bands (3 coarse, 3 fine)
 - 6-1/2" Dia. x 1/2" Long Abrasive Bands (3 coarse, 3 fine)
 - 6-3/8" Dia. x 3/8" Long Abrasive Bands (3 coarse, 3 fine)
 - 4-3" (1/8" Hole) Abrasive Discs (2 coarse, 2 fine)
 - 4-2" (1/8" Hole) Abrasive Discs (2 coarse, 2 fine)
 - 3 Abrasive Rolls (1 cone and 2 cylinders)
 - 6 Arbors to accommodate above abrasives
- No. HU-1001—Abrasive Kit** Complete with above items. **Your Cost... \$9.25**

HANDEE TOOL OF 1001 USES

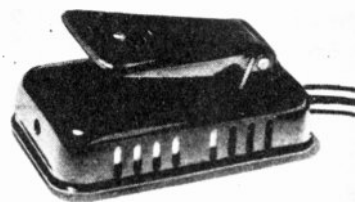
BENCH HOLDER



To convert your Handee Grinder to a high speed polishing or carving head just mount the tool on this sturdy holder. The collar can be screwed to the bench and rigidly mount the Handee.

No. 3000 Your Cost..... \$5.50

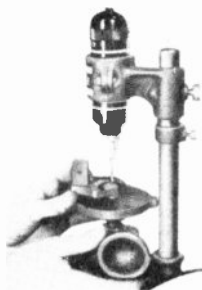
FOOT SPEED CONTROL



With this Foot Speed Control you can control the speed of your Handee Tool in a complete range between 300 and 25,000 r.p.m. It permits full freedom of both hands for guiding instruments.

On 110 volts, AC or DC, 25 to 60 cycle current.

No. 3002 Your Cost..... \$11.00



HANDEE PRECISION DRILL PRESS

A real precision Drill Press that is indispensable for drilling holes 1/8" down to the very smallest. Accurately made from seasoned gray iron casting, it is powered by the DeLuxe Model Handee. The speed you require is here in abundance. Column stands 12" high. Table can be set for routing with permanent lock and the motor unit is adjustable to suit convenience in operation.

Model 7000 Your Cost..... \$22.50

BURGESS VIBRO-TOOL KIT



Consists of a light weight but sturdily constructed tool, uses vibration principle, delivering 120 vertical strokes per second. Ideal to file, chisel, hammer, or groove soft metals, for cutting wood, cardboard and textile patterns and for making lines on glass, drilling glass, etc.....

Vibro-tool and accessories are fitted on a board in a styled wooden box.

Plus this indispensable tool you get all these accessories:

- 1- V-3 Needle.
- 1- No. V-44 Wood box.
- 1- No. V-23 Knife
- 1- No. V-81 Abrasive point.
- 1- No. V-101 Foot gauge.
- 1- Set V-44-48 Ball points.
- 1- Set V-51-56 Carving Chisels.
- 1- Set V-82-87 Leather tools.
- 1- Sharpening stone.

No. 150 DELUXE KIT.

List Price **\$23.50** Your Cost **\$16.00**

No. V 75 Vibro-Tool.

The Vibro-Tool on its own.

Operates on 110 volt A.C. 25 or 60 cycle.

With standard engraving needle.

List Price. **\$9.50** Your Cost. **\$6.35**

SPECIFY 25 OR 60 CYCLE

SEPARATE UNITS.	List Price	Your Cost
V-5 Standard Needle.....	\$0.30	\$0.20
V-3 Hard Needle.....	3.65	2.40
V-23 Straight Edge (pkg. of 3).....	.95	.62
V-24 Curved Edge (pkg. of 3).....	.95	.62
V-44-48 Asst. Ball points (pkg. of 5).....	1.75	1.15
V-81 Abrasive points.....	1.55	1.02
V-82-87 Leather tools (pkg. of 6).....	2.75	1.83
V-101 Foot Gauge.....	1.75	1.15

DEALERS — WRITE FOR NET PRICES

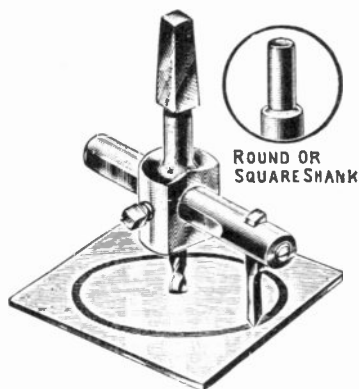


GENERAL HARDWARE



PAWOOD CIRCLE CUTTERS

For radio, electrical and automotive trades

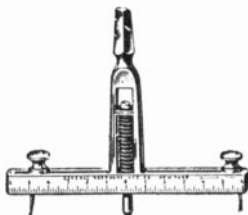


ROUND OR
SQUARE SHANK

Instantly adjustable. Sturdy construction. Moderately priced. Furnished with either Square or Round shank and High Speed cutting blade. Suitable for cutting holes in heavier gauges of metal, hard wood, bakelite, and other materials.

Model Shank Cuts Holes	Your Cost Ea.	Doz. Lots.
Junior Comb $\frac{3}{8}$ " to $2\frac{1}{2}$ "	\$ 1.50	\$ 12.00
5 Square 1" to $5\frac{1}{2}$ "	3.75	30.00
Extra Drills	.60	4.80

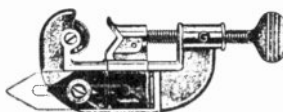
WASHER & GASKET CUTTER



For cutting washers of thin metal, rubber, graphite, packing, leather, etc. Adjustable from $\frac{1}{2}$ " to $6\frac{1}{2}$ ".

	Your Cost Ea.	Doz. Lots.
No. 10	\$3.30	\$ 26.40
Extra blades, per pair	.90	7.20

TUBING CUTTER



With Safety Slide—Lock Reamer. Cuts all tubing up to 1" O.D. Compact with hardened blade.

	Your Cost Ea.	Doz. Lots.
No. 122	\$ 2.55	\$ 20.40

DRILL STANDS

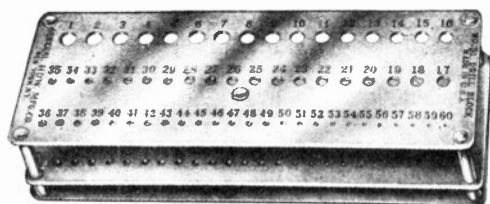
Drills at your fingertips.

Drill Stand for 1 to 60 drills
($5\frac{7}{8}$ x $2\frac{1}{4}$ x $1\frac{1}{4}$ ")

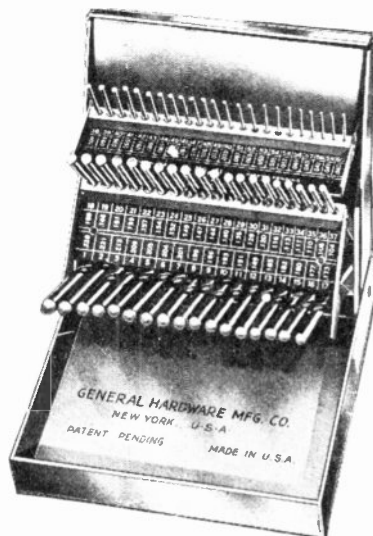
	Your Cost Ea.	Doz. Lots.
No. 51	\$ 1.00	\$ 8.00

Drill Stand for $\frac{1}{4}$ to $\frac{1}{2}$ drills
($6\frac{1}{4}$ x $2\frac{1}{8}$ x $1\frac{1}{4}$ ")

	Your Cost Ea.	Doz. Lots.
No. 52	\$ 1.00	\$ 8.00



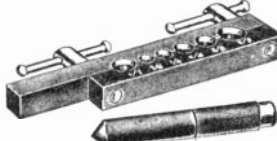
AUTOMATIC SELF-POSITIONING DRILL CASE



Opens and Closes Instantly.
Easy reading Eye-Level Index.
Drills Protected at All Times.
Handy Tap Drill Index.
Life Time Construction.
Just lift the cover and drills are at your fingertips.
Closing cover lowers drills into case safely protecting them.
Fits into any tool chest.

	Your Cost Ea.	Doz. Lots.
No. 41— for 1 to 60 drills	\$ 3.95	\$ 31.60
No. 43— for $\frac{1}{8}$ " to $\frac{1}{2}$ " drills	5.95	47.60

FLARING TOOL With Hand Punch

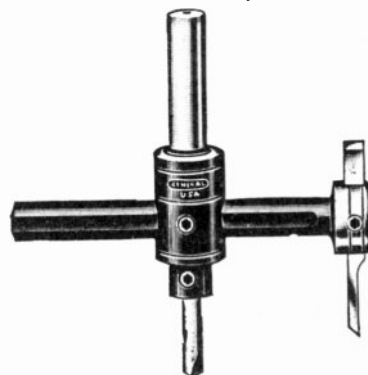


An exceptionally simple and fast tool for flaring $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$ and $\frac{3}{4}$ " O.D. Tubing.

	Your Cost Ea.	Doz. Lots.
No. 140	\$ 3.45	\$ 27.60

DE LUXE

ADJUSTABLE CIRCLE CUTTER
For faster and better performance



Precision made.
Quickly adjusted.
Sturdy construction.
Hardened and centerless ground.
Jessup and high speed alloy cutting bits.
Adjustable from $1\frac{3}{4}$ " to 8" diameter.

	Your Cost Ea.	Doz. Lots.
No. 55	\$ 7.95	\$ 63.60
$\frac{1}{4}$ " H.S. Ground and shaped bits	1.20	9.60
$\frac{1}{4}$ " H.S. Plain Bits	.90	7.20
$\frac{1}{4}$ " Twist Drills	.75	6.00

BRIDGEVIEW SHEET METAL PUNCHES



Made from high quality tool steel, properly hardened and beautifully machined.

Standard Punches
 $\frac{3}{8}$ " Clearance Hole for Spindle

Number	Size	Your Cost
498	$\frac{1}{8}$ "	\$ 3.25
499	$1\frac{1}{2}$ "	3.95
500	$1\frac{1}{4}$ "	3.95
501	$1\frac{1}{2}$ "	3.95
503	$1\frac{1}{4}$ "	3.95
507	$\frac{3}{4}$ "	3.25
509	$\frac{5}{8}$ "	3.25

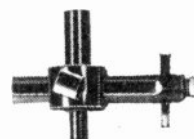
Heavy Duty Sheet Metal Punches
 $1\frac{1}{2}$ " Clearance Hole for Spindles

Number	Size	Your Cost
600	$\frac{3}{8}$ "	\$ 3.75
601	$1\frac{1}{8}$ "	4.25
602	$1\frac{3}{8}$ "	4.75
603	$1\frac{1}{4}$ "	5.50

Deal Kits—In Sturdy Wooden Cases

	Your Cost
No. 650—Contains: 1-No. 600, 1-601, 1-602	\$12.75
No. 660—Contains: 1- 600, 1-601, 1-602, 1-603	\$18.75

BRIDGEVIEW CIRCLE CUTTER



A versatile drill press accessory that can be used to make inside or outside cuts with equal ease.

Number	Cuts	Pilot	Shank	Your Cost
525-1	1" to $3\frac{1}{4}$ "	$\frac{1}{4}$ "	$\frac{3}{8}$ "	\$ 1.79
525-2	$1\frac{1}{8}$ " to 6"	$\frac{1}{8}$ "	$\frac{1}{4}$ "	2.75
525-3	$1\frac{1}{4}$ " to 8"	$\frac{3}{8}$ "	$\frac{1}{2}$ "	3.95

WE STOCK ALL GENUINE FACTORY PARTS

GENERAL

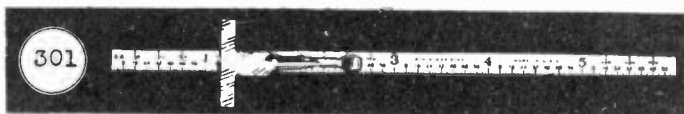
QUALITY TOOLS
PRECISION MADE
ACCURACY TESTED
FINELY FINISHED

P
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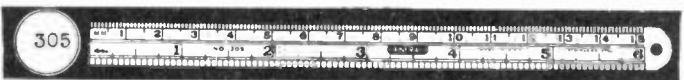
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L
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R
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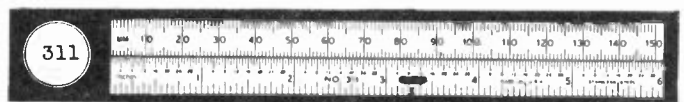
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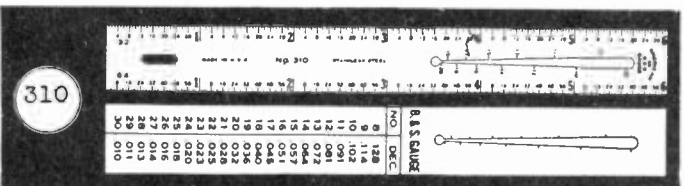
6" Stainless steel pocket rule and depth gauge with clip. Q.R. 64's, 1 1/2" wide.
No. 301 Your Cost Ea. Doz. Lots
\$0.15 \$1.20



6" Metric and English stainless steel rule. Millimeter and 16's.
No. 305 Your Cost Ea. Doz. Lots
\$0.35 \$2.80



6" Stainless steel English and Metric Comparison rule. Millimeter 32's and 16's.
No. 311 Your Cost Ea. Doz. Lots
\$0.35 \$2.80

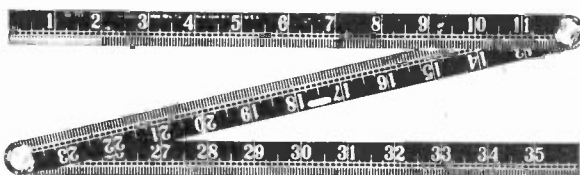


6" Stainless steel rule with leather case. Front—Q.R. 32's and 64's and wire gauge. Back—Wire gauge in decimal equivalents.
No. 310 Your Cost Ea. Doz. Lots
\$0.45 \$3.60



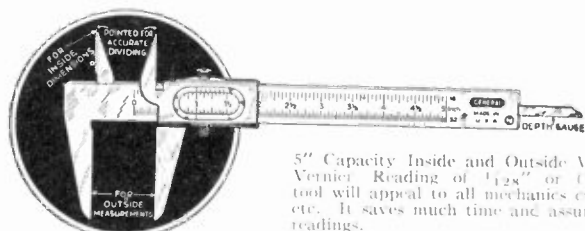
Stainless steel aircraft rule. Graduations in Q.R. 64's, also in 10's, 20's, 30's, 50's and 100's.
No. 1941 Your Cost Ea. Doz. Lots
\$0.40 \$3.20

BLACKSMITH RULE

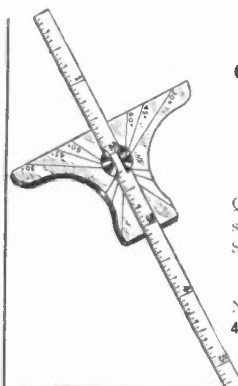


36" long, 3/4" wide. Graduated 16's on one side and 8's on the other.
No. 753 Your Cost Ea. Doz. Lots
\$3.45 \$27.60

AN AMAZING NEW AMERICAN MADE VERNIER CALIPER



5" Capacity Inside and Outside With Depth Gauge
Vernier Reading of 1/128" or (1/2 of 1/64"). This tool will appeal to all mechanics, craftsmen, engineers, etc. It saves much time and assures quick and easy readings.
No. 621 Your Cost Ea. Doz. Lots
\$1.50 \$12.00



COMBINATION ANGLE AND DEPTH GAUGE

Q.R. 32's and 64's
spring tension nut.
Settings 30°, 45°, 60°

Your Doz.
No. Cost Ea. Lots
444 \$2.45 \$19.60

GENERAL	
DRILL & WIRE GAUGE	INDEX
FOR MACHINE SCREW TAPS	
1-16 3/16 1/2 5/8 3/4 7/8 1 1 1/4 1 1/2 1 3/4 2 2 1/4 2 1/2 2 3/4 3 3 1/4 3 1/2 3 3/4 4 4 1/4 4 1/2 4 3/4 5 5 1/4 5 1/2 5 3/4 6 6 1/4 6 1/2 6 3/4 7 7 1/4 7 1/2 7 3/4 8 8 1/4 8 1/2 8 3/4 9 9 1/4 9 1/2 9 3/4 10 10 1/4 10 1/2 10 3/4 11 11 1/4 11 1/2 11 3/4 12 12 1/4 12 1/2 12 3/4 13 13 1/4 13 1/2 13 3/4 14 14 1/4 14 1/2 14 3/4 15 15 1/4 15 1/2 15 3/4 16 16 1/4 16 1/2 16 3/4 17 17 1/4 17 1/2 17 3/4 18 18 1/4 18 1/2 18 3/4 19 19 1/4 19 1/2 19 3/4 20 20 1/4 20 1/2 20 3/4 21 21 1/4 21 1/2 21 3/4 22 22 1/4 22 1/2 22 3/4 23 23 1/4 23 1/2 23 3/4 24 24 1/4 24 1/2 24 3/4 25 25 1/4 25 1/2 25 3/4 26 26 1/4 26 1/2 26 3/4 27 27 1/4 27 1/2 27 3/4 28 28 1/4 28 1/2 28 3/4 29 29 1/4 29 1/2 29 3/4 30 30 1/4 30 1/2 30 3/4 31 31 1/4 31 1/2 31 3/4 32 32 1/4 32 1/2 32 3/4 33 33 1/4 33 1/2 33 3/4 34 34 1/4 34 1/2 34 3/4 35 35 1/4 35 1/2 35 3/4 36 36 1/4 36 1/2 36 3/4 37 37 1/4 37 1/2 37 3/4 38 38 1/4 38 1/2 38 3/4 39 39 1/4 39 1/2 39 3/4 40 40 1/4 40 1/2 40 3/4 41 41 1/4 41 1/2 41 3/4 42 42 1/4 42 1/2 42 3/4 43 43 1/4 43 1/2 43 3/4 44 44 1/4 44 1/2 44 3/4 45 45 1/4 45 1/2 45 3/4 46 46 1/4 46 1/2 46 3/4 47 47 1/4 47 1/2 47 3/4 48 48 1/4 48 1/2 48 3/4 49 49 1/4 49 1/2 49 3/4 50 50 1/4 50 1/2 50 3/4 51 51 1/4 51 1/2 51 3/4 52 52 1/4 52 1/2 52 3/4 53 53 1/4 53 1/2 53 3/4 54 54 1/4 54 1/2 54 3/4 55 55 1/4 55 1/2 55 3/4 56 56 1/4 56 1/2 56 3/4 57 57 1/4 57 1/2 57 3/4 58 58 1/4 58 1/2 58 3/4 59 59 1/4 59 1/2 59 3/4 60 60 1/4 60 1/2 60 3/4	

No. 15 DRILL AND WIRE GAUGE

For 1 to 60 Drills.

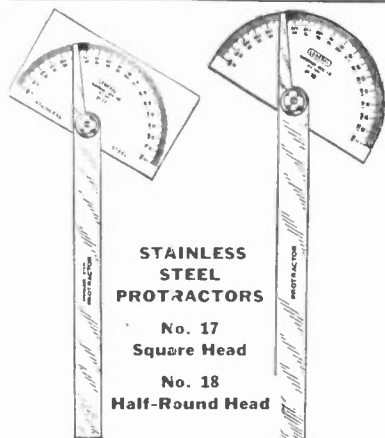
GENERAL	
DRILL & WIRE GAUGE	INDEX
FOR MACHINE SCREW TAPS	
1-16 3/16 1/2 5/8 3/4 7/8 1 1 1/4 1 1/2 1 3/4 2 2 1/4 2 1/2 2 3/4 3 3 1/4 3 1/2 3 3/4 4 4 1/4 4 1/2 4 3/4 5 5 1/4 5 1/2 5 3/4 6 6 1/4 6 1/2 6 3/4 7 7 1/4 7 1/2 7 3/4 8 8 1/4 8 1/2 8 3/4 9 9 1/4 9 1/2 9 3/4 10 10 1/4 10 1/2 10 3/4 11 11 1/4 11 1/2 11 3/4 12 12 1/4 12 1/2 12 3/4 13 13 1/4 13 1/2 13 3/4 14 14 1/4 14 1/2 14 3/4 15 15 1/4 15 1/2 15 3/4 16 16 1/4 16 1/2 16 3/4 17 17 1/4 17 1/2 17 3/4 18 18 1/4 18 1/2 18 3/4 19 19 1/4 19 1/2 19 3/4 20 20 1/4 20 1/2 20 3/4 21 21 1/4 21 1/2 21 3/4 22 22 1/4 22 1/2 22 3/4 23 23 1/4 23 1/2 23 3/4 24 24 1/4 24 1/2 24 3/4 25 25 1/4 25 1/2 25 3/4 26 26 1/4 26 1/2 26 3/4 27 27 1/4 27 1/2 27 3/4 28 28 1/4 28 1/2 28 3/4 29 29 1/4 29 1/2 29 3/4 30 30 1/4 30 1/2 30 3/4 31 31 1/4 31 1/2 31 3/4 32 32 1/4 32 1/2 32 3/4 33 33 1/4 33 1/2 33 3/4 34 34 1/4 34 1/2 34 3/4 35 35 1/4 35 1/2 35 3/4 36 36 1/4 36 1/2 36 3/4 37 37 1/4 37 1/2 37 3/4 38 38 1/4 38 1/2 38 3/4 39 39 1/4 39 1/2 39 3/4 40 40 1/4 40 1/2 40 3/4 41 41 1/4 41 1/2 41 3/4 42 42 1/4 42 1/2 42 3/4 43 43 1/4 43 1/2 43 3/4 44 44 1/4 44 1/2 44 3/4 45 45 1/4 45 1/2 45 3/4 46 46 1/4 46 1/2 46 3/4 47 47 1/4 47 1/2 47 3/4 48 48 1/4 48 1/2 48 3/4 49 49 1/4 49 1/2 49 3/4 50 50 1/4 50 1/2 50 3/4 51 51 1/4 51 1/2 51 3/4 52 52 1/4 52 1/2 52 3/4 53 53 1/4 53 1/2 53 3/4 54 54 1/4 54 1/2 54 3/4 55 55 1/4 55 1/2 55 3/4 56 56 1/4 56 1/2 56 3/4 57 57 1/4 57 1/2 57 3/4 58 58 1/4 58 1/2 58 3/4 59 59 1/4 59 1/2 59 3/4 60 60 1/4 60 1/2 60 3/4	

No. 14 FRACTIONAL DRILL GAUGE

For 1/16" to 1/2" Drills.

Precision made. Tested for Accuracy. Hardened and Tempered Steel. Ground Tool Finish. Actual Size 2 3/8" x 6 1/4".

Your Doz.
No. Cost Ea. Lots
14 \$1.50 \$12.00
15 1.50 12.00



STAINLESS STEEL PROTRACTORS

No. 17 Square Head

No. 18 Half-Round Head

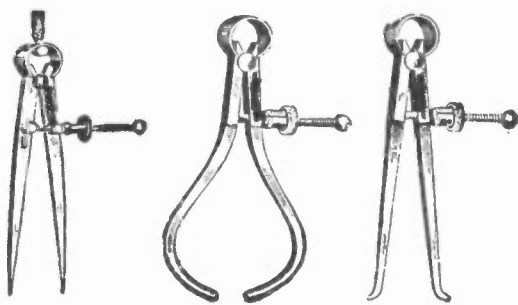
Tested for Accuracy. Graduated from 0 to 180 degrees in opposite directions. Standard Size: Head 3 3/8" x 2"; Arm 8" long.

Your Doz.
No. Cost Ea. Lots
17 \$1.50 \$12.00
18 1.50 12.00

PERFECT MERCHANDISE — PROMPT SERVICE — PERSONAL ATTENTION

**QUALITY TOOLS
PRECISION MADE
ACCURACY TESTED
FINELY FINISHED**

GENERAL



SPRING CALIPERS AND DIVIDERS

Round Leg Pattern

Fine quality and well balanced.
Tempered stiff spring assuring
uniform tension, and easy
operating screw and solid nut.

SPRING DIVIDERS

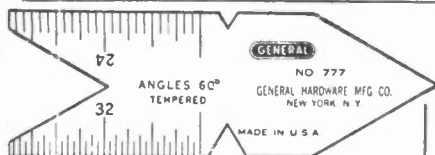
No.	Size	Your Cost Ea.	Doz. Lots
200	3"	\$1.95	\$15.60
200	4"	2.25	18.00

OUTSIDE SPRING CALIPERS

No.	Size	Your Cost Ea.	Doz. Lots
202	3"	\$1.95	\$15.60
202	4"	2.25	18.00

INSIDE SPRING CALIPERS

No.	Size	Your Cost Ea.	Doz. Lots
204	3"	\$1.95	\$15.60
204	4"	2.25	18.00



CENTER GAUGE

Tempered U.S. Standard. 60 degrees. Used in
grinding and setting screw cutting tools.
Graduated 14's, 20's, 24's and 32's.

No.	777	Your Cost Ea.	Doz. Lots
		\$0.60	\$4.80

WIRE STRIPPER



No.	65	Your Cost Ea.	Doz. Lots
		\$0.25	\$1.71

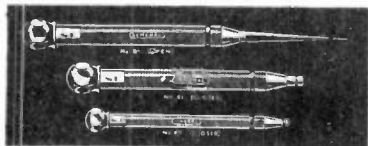
2 POINT MACHINIST'S SCRIBERS



Length 9 inches.

No.	80	Your Cost Ea.	Doz. Lots
		\$0.50	\$4.00

POCKET SCRIBERS



- Hardened steel points.
- Positive locking chuck.
- Reversible points.
- Nickel plated.

No.	81	1/2" diam.	\$0.75	\$6.00
No.	83	1" diam.	.60	4.80



415

TWEEZERS FOR SOLDERING GENERAL USE

No.	407 Common soldering tweezer. Plain steel 4" long.	Your Cost
	Doz. lots	\$0.25
		2.00
No.	413 Light, medium sharp point, plain steel 4 1/2" long.	.25
	Doz. lots	2.00
No.	415 Extra long curved smooth points, plated 7" long.	.65
	Doz. lots	5.20

TELESCOPING GAUGES

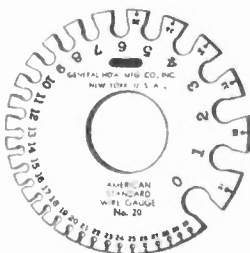


For quick and
accurate
measurements
in slots and holes.

Exceptional qual-
ity — moderately
priced. Made in
three sizes, also
set of three in
leatherette case.

No.	Your Cost Ea.	Doz. Lots
99A 1/2" to 3/4" range.	\$2.25	\$18.00
99B 3/4" to 1 1/4" range.	2.50	20.00
99C 1 1/4" to 2 1/4" range.	2.75	22.00
99S, Set of three	7.50	60.00

AMERICAN STANDARD WIRE GAUGE



Used for measuring wire, sheets, plates of
non-ferrous metals such as copper, brass,
aluminum. Decimal equivalents of each size
stamped on reverse side.

No.	20—0 to 36	Your Cost Ea.	\$ 3.95
	Doz. lots		31.60

REFERENCE GAUGE

STEEL		BRASS	
GENERAL HARDWARE MFG CO NEW YORK N.Y. NO. 715		REFERENCE TABLE FOR MACHINE SCREW AND TAP DRILLS U. S. FORM	
DECIMAL EQUIVALENT	TAP DRILL	U. S. STD.	
0.136	2.4850	2.4850	
0.1312	2.4848	2.4848	
0.1268	2.4846	2.4846	
0.1225	2.4844	2.4844	
0.1181	2.4842	2.4842	
0.1137	2.4840	2.4840	
0.1093	2.4838	2.4838	
0.1049	2.4836	2.4836	
0.1005	2.4834	2.4834	
0.0961	2.4832	2.4832	
0.0917	2.4830	2.4830	
0.0873	2.4828	2.4828	
0.0829	2.4826	2.4826	
0.0785	2.4824	2.4824	
0.0741	2.4822	2.4822	
0.0697	2.4820	2.4820	
0.0653	2.4818	2.4818	
0.0609	2.4816	2.4816	
0.0565	2.4814	2.4814	
0.0521	2.4812	2.4812	
0.0477	2.4810	2.4810	
0.0433	2.4808	2.4808	
0.0389	2.4806	2.4806	
0.0345	2.4804	2.4804	
0.0301	2.4802	2.4802	
0.0257	2.4800	2.4800	
0.0213	2.4798	2.4798	
0.0169	2.4796	2.4796	
0.0125	2.4794	2.4794	
0.0081	2.4792	2.4792	
0.0037	2.4790	2.4790	
0.0000	2.4788	2.4788	
0.0000	2.4786	2.4786	
0.0000	2.4784	2.4784	
0.0000	2.4782	2.4782	
0.0000	2.4780	2.4780	
0.0000	2.4778	2.4778	
0.0000	2.4776	2.4776	
0.0000	2.4774	2.4774	
0.0000	2.4772	2.4772	
0.0000	2.4770	2.4770	
0.0000	2.4768	2.4768	
0.0000	2.4766	2.4766	
0.0000	2.4764	2.4764	
0.0000	2.4762	2.4762	
0.0000	2.4760	2.4760	
0.0000	2.4758	2.4758	
0.0000	2.4756	2.4756	
0.0000	2.4754	2.4754	
0.0000	2.4752	2.4752	
0.0000	2.4750	2.4750	
0.0000	2.4748	2.4748	
0.0000	2.4746	2.4746	
0.0000	2.4744	2.4744	
0.0000	2.4742	2.4742	
0.0000	2.4740	2.4740	
0.0000	2.4738	2.4738	
0.0000	2.4736	2.4736	
0.0000	2.4734	2.4734	
0.0000	2.4732	2.4732	
0.0000	2.4730	2.4730	
0.0000	2.4728	2.4728	
0.0000	2.4726	2.4726	
0.0000	2.4724	2.4724	
0.0000	2.4722	2.4722	
0.0000	2.4720	2.4720	
0.0000	2.4718	2.4718	
0.0000	2.4716	2.4716	
0.0000	2.4714	2.4714	
0.0000	2.4712	2.4712	
0.0000	2.4710	2.4710	
0.0000	2.4708	2.4708	
0.0000	2.4706	2.4706	
0.0000	2.4704	2.4704	
0.0000	2.4702	2.4702	
0.0000	2.4700	2.4700	
0.0000	2.4698	2.4698	
0.0000	2.4696	2.4696	
0.0000	2.4694	2.4694	
0.0000	2.4692	2.4692	
0.0000	2.4690	2.4690	
0.0000	2.4688	2.4688	
0.0000	2.4686	2.4686	
0.0000	2.4684	2.4684	
0.0000	2.4682	2.4682	
0.0000	2.4680	2.4680	
0.0000	2.4678	2.4678	
0.0000	2.4676	2.4676	
0.0000	2.4674	2.4674	
0.0000	2.4672	2.4672	
0.0000	2.4670	2.4670	
0.0000	2.4668	2.4668	
0.0000	2.4666	2.4666	
0.0000	2.4664	2.4664	
0.0000	2.4662	2.4662	
0.0000	2.4660	2.4660	
0.0000	2.4658	2.4658	
0.0000	2.4656	2.4656	
0.0000	2.4654	2.4654	
0.0000	2.4652	2.4652	
0.0000	2.4650	2.4650	
0.0000	2.4648	2.4648	
0.0000	2.4646	2.4646	
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SCREWDRIVERS



VACO DIAL SCREWDRIVERS

Vaco hand forged, chrome vanadium screwdrivers, with amberyl breakproof and shockproof handles are the finest money can buy. Round blade. Fully guaranteed.

Stock No.	Size of Blade	Handle size and style	Over-all Lgth.	List Price	Your Cost	Stock No.	Size of blade	Handle size and style	Over-all Lgth.	List Price	Your Cost
A-010C	$\frac{3}{8}$ " x $1\frac{1}{2}$ "	$\frac{3}{8}$ " x $1\frac{3}{4}$ " RD. with Clip	$3\frac{1}{2}$ "	\$0.29	\$0.18	A-132-1	$\frac{1}{4}$ " x $1\frac{1}{4}$ "	Stub- $1\frac{1}{8}$ " x $1\frac{3}{4}$ " Handle	3"	\$0.86	\$0.54
A-116-3C	$\frac{3}{8}$ " x 3"	$\frac{1}{2}$ " x $2\frac{1}{2}$ " Rd. with Clip	$5\frac{1}{4}$ "	.52	.32	A-216R-6C	$\frac{1}{8}$ " x 6"	$\frac{3}{4}$ " x $2\frac{1}{2}$ " Handle	$8\frac{1}{2}$ "	.76	.48
A-130-2C	$\frac{1}{8}$ " x 2"	$\frac{1}{2}$ " x $1\frac{1}{8}$ " Rd. with Clip	$3\frac{7}{8}$ "	.43	.27	A-216R-8C	$\frac{1}{8}$ " x 8"	$\frac{3}{4}$ " x $2\frac{1}{2}$ " Handle	$10\frac{1}{2}$ "	.81	.51
A-130-3C	$\frac{1}{8}$ " x 3"	$\frac{1}{2}$ " x $1\frac{1}{8}$ " Rd. with Clip	$4\frac{7}{8}$ "	.43	.27	A-216R-10C	$\frac{1}{8}$ " x 10 "	$\frac{3}{4}$ " x $2\frac{1}{2}$ " Handle	$12\frac{1}{2}$ "	.86	.54
A-130-4C	$\frac{1}{8}$ " x 4"	$\frac{1}{2}$ " x $1\frac{1}{8}$ " Rd. with Clip	$5\frac{7}{8}$ "	.43	.27	A-316R-4	$\frac{1}{4}$ " x 4"	$\frac{3}{8}$ " x $3\frac{1}{4}$ " Handle	$7\frac{1}{4}$ "	.95	.60
						A-316R-6	$\frac{1}{4}$ " x 6"	$\frac{3}{8}$ " x $3\frac{1}{4}$ " Handle	$9\frac{1}{4}$ "	1.00	.60
						A-316R-8	$\frac{1}{4}$ " x 8"	$\frac{3}{8}$ " x $3\frac{1}{4}$ " Handle	$11\frac{1}{4}$ "	1.09	.69

RADIO MAN'S RATCHET SCREW DRIVER



Particularly adapted for radio, electrical and other light work where small screws are used. Three actions: Right and left hand ratchet and rigid.

Blade nicely polished, all other exposed metal parts polished and nickel plated. Handle has nice mahogany lacquer finish.

No.	Length Blade	Your Cost
No. 55	2 inches	\$1.48
No. 55	4 inches	1.54
No. 55	6 inches	1.68

SPIRAL RATCHET SCREW DRIVER



A new, automatic spiral screw driver that is a sturdy, well built tool in every respect. Chuck and chuck sleeve, shifted sleeve and spring screw and mahogany finished hardwood handle nicely nicked and buffed. Equipped with one bright finished, forged steel blade. Length overall with blade inserted, 10".

No. 29 Your Cost... **\$3.22**

OFFSET SCREW DRIVERS



For reaching out-of-the-way screws, starting frozen ones or wherever a lot of power is necessary. Forged from fine grade steel.

No.	Length	Stock	Your Cost
No. 797	$4\frac{1}{4}$ inch	$\frac{1}{4}$ inch	\$0.37
No. 579	8 inch	$\frac{3}{8}$ inch	.74

No. 199 OFFSET SCREW DRIVER



Four-blades, two set at right angles to each other and the pair at one end set at 45 degrees from the pair at the other, making it possible to handle screws otherwise inaccessible. Length $5\frac{1}{4}$ ins.

No. 199—Your Cost... **\$0.74**

TOOL KITS



Containing 10 oz. Hammer, 9" Auto Wrench, 6" Auto Pliers, $\frac{3}{8}$ " x $5\frac{1}{2}$ " chisel, 4" kit screw driver. In cloth bag.

No. 83—Your Cost... **\$2.30**

HOLD-E-ZEE SCREW DRIVERS



HOLDS ANY SIZE

Hold-E-Zee Screw Drivers will hold screws firmly, and will save much valuable time. Handles are of tough composition, with blades carefully heat treated.

No.	Blade Size	Overall Length	Your Cost
RH2	$\frac{1}{2}$ " x 2"	4"	\$0.70
RH3	$\frac{1}{2}$ " x 3"	$5\frac{1}{2}$ "	.95
TR4	$\frac{1}{2}$ " x 4"	$6\frac{1}{2}$ "	1.15
TR6	$\frac{1}{2}$ " x 6"	$9\frac{1}{2}$ "	1.25
TR10	$\frac{1}{2}$ " x 10"	$13\frac{1}{2}$ "	1.35

ROBERTSON SCREW DRIVERS

Wood Handle



No. RB1—Green—for screws 4, 5 and 6 $\frac{1}{4}$ " long. Your Cost...	\$0.45
No. RB2—Red—for screws 7, 8 and 9: $\frac{1}{2}$ " long. Your Cost...	.45
No. RB3—Black—for screws 10-14, incl.; $\frac{9}{16}$ " long. Your Cost...	.45

PHILLIPS' SCREW DRIVERS

Wood Handle







No.	Len.	Blade Diam.	Overall Length	Fits Phillips' Screws	Your Cost
WP1	3"	$\frac{1}{8}$ "	6 $\frac{1}{4}$ "	No. 4 and smaller	\$0.65
WP2	4"	$\frac{1}{4}$ "	8 $\frac{3}{4}$ "	No. 5 to 8 inc.	.65
WP3	6"	$\frac{1}{4}$ "	11"	No. 10 to 16 inc.	.80
WP4	8"	$\frac{3}{8}$ "	14 $\frac{1}{2}$ "	No. 18 and larger	1.10

For the mechanic who needs a full set, No. WP Set contains one of each size. Packed in cardboard box.

PHILLIPS' SCREW DRIVERS

Transparent Handles

No.	Len.	Blade Diam.	Overall Length	Fits Phillips' screws	Your Cost
CP1	3"		6"	4 and smaller	\$1.20
CP2	4"		7 3/4"	5 to 9 inc.	1.60
CP3	6"		10 1/4"	10 to 16 inc.	1.80
CP4	8"		11"	18 and longer	3.00

SHORT PHILLIPS For cramped corners

Wooden Handles



No.	Blade Length	Diam.	Fits Phillips	Your Cost
SP1	1"	$\frac{1}{4}$ "	4 and smaller	\$0.80
SP2	$1\frac{3}{8}$ "	$\frac{1}{4}$ "	5 to 9 inc.	.80

JEWELLERS' SCREW DRIVERS



$3\frac{3}{4}$ " long. Hexagon swivel head. Removable blades are firmly held by threaded chuck eliminating any backlash. Blades .025" to .100" wide.

No.	Set of 6	Your Cost	Doz. Lots
No. 600	Set of 6	\$4.80	\$3.20
No. 600-5	Blade .025 wide	.80	.53
No. 600-4	Blade .040 wide	.80	.53
No. 600-3	Blade .055 wide	.80	.53
No. 600-2	Blade .070 wide	.80	.53
No. 600-1	Blade .080 wide	.80	.53
No. 600-0	Blade .100 wide	.80	.53

NEON TUBE SCREW DRIVERS



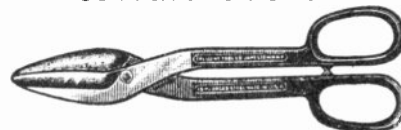
Pocket type. Neon tube in the handle for testing. Handle made of non-conductor. Wire guard to slip over tip and protect pocket. Length of blade $2\frac{1}{4}$ ". Strong clip.

E02—Your Cost... **\$1.05**

Electrical type for spark plug testing. Non-conductor handle, containing neon tube. Length of blade 3", tip $\frac{1}{4}$ ".

E03—Your Cost... **\$1.50**

COMBINATION SNIPS



The combination circle pattern snip is an all purpose snip. Cuts either right or left-handed direction.

No.	Length	Blade Width	Your Cost
707	7"	$1\frac{1}{8}$ "	\$2.20
710	10"	$2\frac{3}{4}$ "	3.00
712	12"	$3\frac{3}{8}$ "	3.80

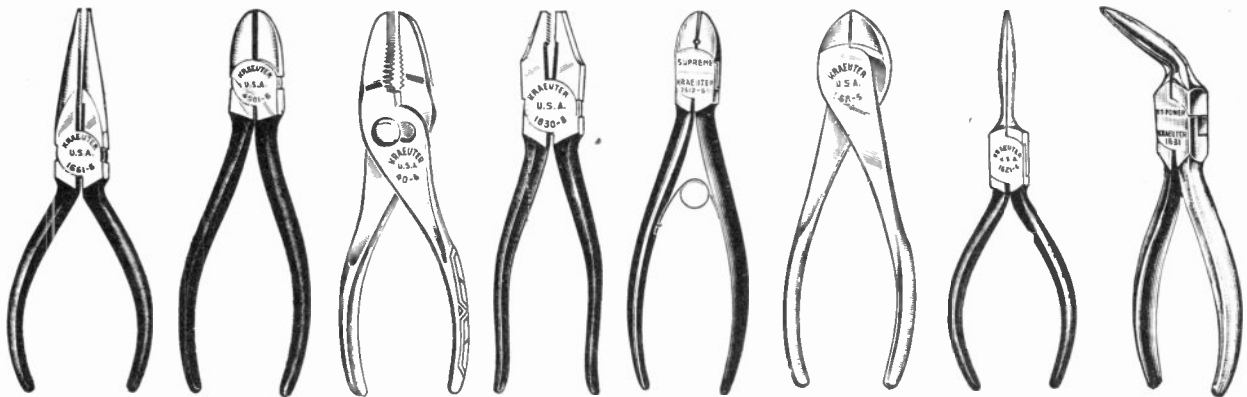
ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE



QUALITY TOOLS



KRAEUTER INDUSTRIAL FINE QUALITY RADIO PLIERS



No. 1661 & 1671 No. 4501 No. 40 No. 1830 No. 2612 No. 4610 No. 1621 No. 1631

BLUE TEMPER FINISH HANDLES—POLISHED HEADS

Used extensively in production-maintenance-repair in all fields of communications and electronics where high quality is a requisite but full polish finish is not essential.

	Your Cost		Your Cost
No. 1661—6" Long nose with side cutters.....	\$3.11	No. 1830—5" Electricians side cutting pliers.....	\$2.57
" 1671—6" Long nose no side cutting.....	2.43	" 1830—7" Electricians side cutting pliers.....	3.17
" 4501—5" Diagonal cutting pliers.....	2.77	" 4610—7" Extra heavy diagonal cutting.....	3.11
" 4501—6" Diagonal cutting pliers.....	3.17	" 2612—6½" Wire stripping diagonal cutting pliers.....	3.85
" 40—6" Thin nose combination nickel plated..	1.69	" 1621—6" Snipe nose pliers.....	2.84
		" 1631—5½" Curved needle pliers.....	3.17

SPEEDEX WIRE STRIPPER, KIT AND "DELUXE KIT" ACCESSORIES

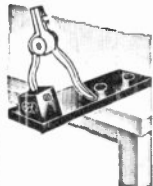
"Complete Kit for all Size Wires"

Comes complete with Wire Stripper and seven different size blades neatly put up in a special permanent steel box. Be ready to strip any size wire No. 8 to No. 30 with this kit. Very practical kit for the Radio Service Man. All parts are kept together in one box. Very handy kit for the tool box, home workshop, maintenance, and production.



No.	Your Cost
744-K—De Luxe Speedex Stripper Kit complete with Automatic Model Tool and all blades....	\$13.60
733-K—Standard Speedex Stripper Kit complete with all blades.....	12.00

"SPEEDEX" STRIPPER BENCH HOLDER



"For the Factory or Service Bench"

Special Bench Holder that will hold any model Speedex Stripper. Makes a bench operated tool, useful at the service bench where a permanently fastened tool is desired. Easily installed. Stripper can be quickly attached or removed merely by adjusting set screw. An inexpensive investment that will really pay dividends.

No. 755. Your Cost..... \$3.00

"SPEEDEX" WIRE STRIPPER

Sensational! Strips all types of wire instantly! Just press handles and the job is done. Pocket size, fast (up to 1000 wires per hour), positive acting. Works on ends or any place along wire. Clean working, without damage to wire, stranded or solid.



No.	Standard Models	Your Cost
733A—	Sizes 14 to 24 wire.....	\$4.80
733—	Sizes 12 to 20 wire.....	4.80
733B—	Sizes 10 to 18 wire.....	4.80

Automatic Models

With "stay open feature" for stripping fine standard wires.

744A—	Sizes 14 to 24 wire.....	\$6.40
744—	Sizes 12 to 20 wire.....	6.40
744B—	Sizes 10 to 18 wire.....	6.40

Also available for 8-10 wire and for aviation wires.

"SPEEDEX" REPLACEMENT BLADES Fit Standard and Automatic Model



No.	Wire Sizes	Your Cost
3W—	12-to-20.....	\$1.20
3W-A—	14-to-24.....	1.20
3W-B—	10-to-18.....	1.20
3W-C—	8-to-10.....	1.20
3W-D—	16, 18, 20, 22.....	1.20
3W-E—	14, 16, 18.....	1.20
3W-F—	10, 12, 14.....	1.20
3W-G—	P.D.S.J. wire.....	1.20

BATTERY PLIERS



Made from drop-forged high carbon molybdenum alloy steel. Angle nose makes it possible to grip battery plug without damaging the battery. Satin cadmium finish. 7½" long.

No. 052—Your Cost..... \$1.20

SLIP JOINT AUTO PLIERS



Drop forged from a special analysis steel, carefully tempered and heat-treated. Leads polished and bright, cadmium plated.

Number & Size	Jaws Open	Your Cost
6"	3"	\$0.40
8"	4"	.50

NEW! WIRE STRIPPER

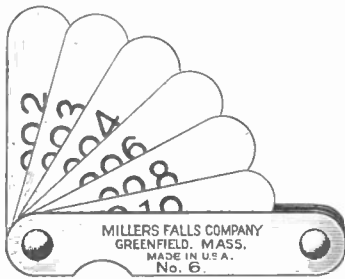
Sensational 5 in 1 tool made of hardened steel. Is a wire stripper, scraper, cutter, screw driver, and wire winder all in one. Save time by having one on your bench and one in your tool kit. A real tool!



No. 757—Wire Stripper. Your Cost... \$0.20

MAKE CANADIAN ELECTRICAL YOUR TOOL HEADQUARTERS

TOOLS and HARDWARE for



THICKNESS GAUGES

Combination of thicknesses, namely .002, .003, .004, .006, .008 and .010 of an inch. The thickness is clearly etched on each blade.

No. 6 Mounted on card
Leaves $2\frac{1}{4} \times \frac{1}{2}$ inch.

Your Cost..... **\$0.68**

No. 7. Same as 6 but with 9 leaves from .0015 to .020 in thickness.

Your Cost..... **1.03**

No. 25 Same as above but with 25 leaves from .0015 to .025.

Your Cost..... **2.16**

MILLERS FALLS TORPEDO LEVEL DISPLAY



The No. 590 Torpedo Level can be had in a counter display carton that picks up many a sale as a merchandiser. Four of the smooth, glossy black bakelite body levels with their shining nickeloid top plate packed in each carton. The tool has one level, one 90 degree plumb and one 45 degree vial.

No. 590 Level. Your Cost Each..... **\$2.00**

LINE LEVEL



A featherweight model with a cat's-eye vial set in a hexagonal aluminium tube. The hooks and guards are so designed that it snaps on to a level line very easily but cannot be jumped off.

Each level packed in a permanent container of transparent celluloid with a screw cap. Length 3".

No. 629 Your Cost..... **\$0.80**

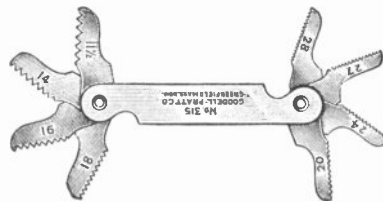
No. 1000 COMBINATION SQUARE



The steel blade is 12 inches long and 1 inch wide. It is well finished and clearly and accurately graduated in 8ths and 16ths on one side and 16ths and 32nds on the other. When the binder nut is loosened the blade can be moved and locked at any point.

No. 1000 Your Cost..... **\$1.86**

No. 315 POPULAR SCREW PITCH GAUGE

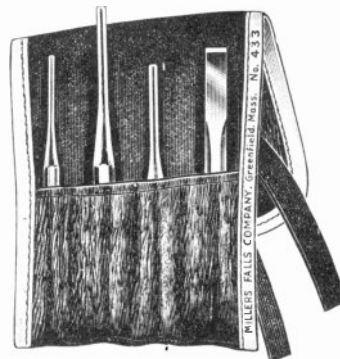


A popular priced gauge with eight leaves, covering all National Fine (NF) or SAE threads from $\frac{1}{4}$ inch-28 to 1 inch-14 and Standard Pipe threads from $\frac{1}{4}$ inch-27 to 2 inches-11 $\frac{1}{2}$.

Each gauge mounted on a card printed in red and black.

No. 315 Your Cost..... **\$0.67**

AVIATION CHISEL AND PUNCH SET



A set of four tools made up expressly at the request of several of the aviation training schools and adopted by them as prescribed tool equipment.

Specifications of the tools are as follows:

1—**No. 573** Pin Punch Size $\frac{3}{8}$ inch
1—**No. 413** Pin Punch Size $\frac{1}{8}$ inch
1—**No. 574** Pin Punch Size $\frac{3}{8}$ inch
1—**No. 1154** Cold Chisel Size $\frac{3}{8}$ inch

These are all hammer forged from high grade, octagon alloy steel with polished points and heads. Bodies finished in gray and red lacquer. The case is made of a serviceable fabric with artificial leather covering.

Your Cost
No. 433 Aviation Set..... **\$2.18**

**ALL PRICES
SUBJECT TO CHANGE
WITHOUT NOTICE**

MACHINIST'S SCREW PITCH GAUGES

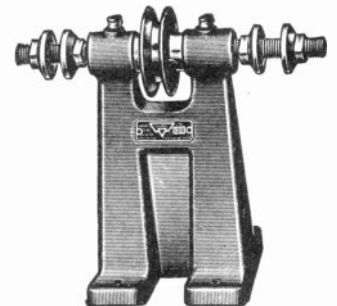


Designed for quickly and positively determining the pitch of screw threads

The leaves are shaped so that they can be inserted into tapped holes for gauging internal threads as well as external. The leaves not in use can be folded into the handle.

	No. Leaves	Length Leaves	Your Cost
No. 135	22	1 inch	\$2.62 ea.
No. 436	30	1 $\frac{1}{8}$ inch	\$3.32 ea.

MILLERS FALLS GRINDING HEAD "Oilite" Bronze Bearings



A stocky machine with a solid frame and ample base to withstand years of service. The spindle is $\frac{1}{2}$ inch in diameter and runs in two "Oilite" bronze bearings 1 $\frac{1}{4}$ inches long. Bearings are lubricated through good sized spring top oilers. The V-belt pulley is 2 $\frac{1}{4}$ inches in diameter. Designed to drive from above, behind or below. Frame nicely finished in battleship gray. Flanges polished, nicked and buffed. Height 6", Base $4\frac{1}{8}$ " x $4\frac{1}{8}$ ".

No. 120 Your Cost..... **\$5.60**

No. 125 GRINDING HEAD

Exactly the same as No. 120 above, but fitted with a clean, deep taper thread spindle in place of the wheel arbor on the left. This permits the use of buffing wheels and a great variety of wheels built on wood centers. On the right is a set of flanges and an all-steel three-jawed chuck, that holds rods or drills from 0 to $\frac{3}{8}$ inch in diameter.

Height 6", Base $4\frac{1}{8}$ " x $4\frac{1}{8}$ "

No. 125 Your Cost..... **\$6.30**

No. 130 GRINDING HEAD

Exactly the same as No. 120 above but with a longer spindle on the right side on which is a nicked and buffed all-steel chuck with three hardened jaws that holds 0 to $\frac{1}{8}$ inch round shank drills or rods.

Height 6", Base $4\frac{1}{8}$ " x $4\frac{1}{8}$ ".

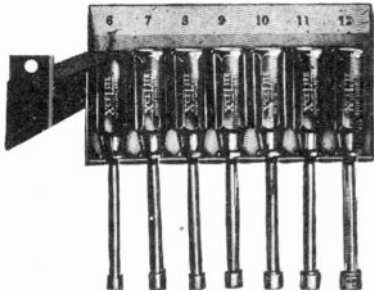
No. 130 Your Cost..... **\$6.78**

SPECIAL QUANTITY PRICES AVAILABLE ON MILLERS FALLS

MECHANICS *and* SERVICEMEN



DE LUXE Nut Driver Set No. 27 In Handy, Lockable Metal Tool Holder Colored Fire Resistant Handles



Color Flashes the Size!

Color of Handles	Number	Nut Size
Black	6	1/4"
Brown	8	3/8"
Red	9	1/2"
Orange	10	5/8"
Yellow	11	3/4"
Green	11	7/8"
Blue	12	1"

Over-all size of tool holders and 7 nut drivers, 7 1/2" x 7 1/4" x 1 1/4". Depth of shaft hole 1 1/4". DeLuxe Nut Driver shafts come finished in a rust-resistant black; sockets are bright polished.
Set No. 27—complete with 7 nut drivers and holders. Your Cost..... **\$5.20**

XCELITE NUT DRIVERS (With New Fire-Resistant Handles)

See Photograph above
Just the wrench for those jobs requiring a sturdy, accurate, extra-deep socket—deep enough to handle two nuts at once!
6-inch lengths overall

Number	Nut Size	Your Cost
6	1/4"	\$0.60
7	3/8"	.60
8	1/2"	.60
9	5/8"	.60
10	3/4"	.60
11	7/8"	.60
12	1"	.60
14	1 1/8"	.76
16	1 1/4"	.76

HOLLOW SHAFT NUT DRIVERS (With New Fire-Resistant Handles)



This unique, time-saving tool was especially designed for general electrical and radio work. Shafts insulated for protection up to 1000 volts; handles to 5000 volts.
Number and

Overall Length	Nut Size	Depth of Insulated Hole	Your Cost
HS-10 6"	1/4"	2 1/4"	\$0.92
HS-11 6"	3/8"	2 1/4"	.92
HS-12 6"	1/2"	5"	1.12
HS-14 6"	5/8"	5"	1.16
HS-16 6"	3/4"	5"	1.20
HS-18 6"	7/8"	5"	1.24
HS-20 7"	1"	5"	1.40

STUBBY NUT DRIVERS

Handle, 1 1/4" diameter
Overall Length 3 1/4" Shaft, 1 1/4" hollow.

No.	Size Nut	Your Cost
S-8	1/4"	\$0.56
S-10	3/8"	.56
S-12	1/2"	.56

DREADNAUGHT ADJUSTABLE WRENCHES



Drop forged from selected steel, and carefully tempered. With cadmium plated finish.

No. 6C	6" long	Your Cost \$1.50
No. 8C	8" long	1.80

CARBON STEEL WRENCH SETS

Handy sets of drop forged open end wrenches, ideal for the man who needs good wrenches at a low price.

No. 60 Six wrenches in sizes from 3/8" to 1". Part numbers 723, 725B, 27, 729, 31, 33c. Supplied with clip. Natural finish.

Your Cost.....	\$1.75
Lots of 6.....	1.17

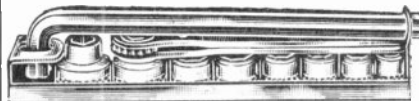
No. 62 Five wrenches in sizes from 1/2" to 3/4". Part numbers 21, 723, 725B, 27, 729. Natural finish, supplied with screw type clip.

Your Cost.....	\$1.20
Lots of 6.....	.80

Carbon Steel Open End Wrenches

No.	Extreme Length	Milled Openings	Your Cost
21	3 1/4"	1/8" & 1/4"	\$0.35
723	4 1/2"	3/8" & 1/2"	.45
725B	5 1/2"	1/2" & 3/4"	.50
27	6 1/2"	3/4" & 1"	.65
729	7 1/4"	7/8" & 1 1/8"	.75
31	8 1/2"	1" & 1 1/8"	.95
33C	9 1/4"	1 1/8" & 1 1/4"	1.15

GRAY-BONNEY

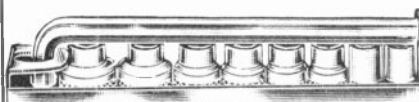


"DR" Ratchet Set

The set includes eight sockets, 1/4", 1/2", 3/4", 1", 1 1/4", 1 1/2", 1 3/4", 2". No. 642 Offset handle, No. 632 ratchet with 1/2" hexagonal opening, 7" long, and No. 648 ratchet connector. Packed in enameled steel container.

No. DR —Set Complete	Your Cost \$3.00
-----------------------------	-------------------------

"A" HANDY SET



This set has an assortment of the most used sockets, including the following: 1/2", 3/4", 1", 1 1/4", 1 1/2", 1 3/4", and 2". with a No. 643 hexagon off-set handle. Conveniently packed in a steel enamel container.

No. A Set, complete	Your Cost \$1.50
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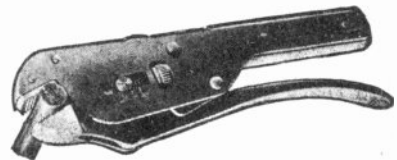
ELECTROLYTIC CONDENSER NUT WRENCH



Two sizes. Deep drawn Steel Sockets. No interference with leads. Sockets 2" deep. AMBERYL chip, break and shockproof handles. Burnished nickel finish. Length, 7" overall.

No.	Size Nut	List Price	Your Cost
No. S32 for 1" nuts.....		\$2.19	\$1.31
No. S36 for 1 1/4" nuts.....		2.19	1.31

BMC PRESSURE LOCK WRENCH



LOCKS ON — WON'T LET GO UNTIL RELEASED

7 Outstanding features

- 1—Parallel Jaws.** Provide maximum gripping surface.
- 2—One ton gripping power.** From feather-light pressure to more than one ton, depending upon adjustment.
- 3—Calibrated scale.** As adjustment is made, indicator moves along calibrated scale to show width of jaw opening.
- 4—One hand operation.** To adjust wrench, grip the material, or release the powerful jaws.
- 5—Locking grip.** Holds by itself when hands are removed.
- 6—Quality construction.** Ingenious design, fine materials.
- 7—Hundreds of uses.** In the factory, garage, shop and home.

No.	Length	Adjust from	Your Cost
7	7 1/8"	0 to 3/4"...	\$2.98
11	11 3/8"	0 to 1 1/2"...	6.80

WALSCO STAPLE DRIVER



An amazing tool! Electrical installation men and radio service men doing stapling will welcome this handy invention.

Automatically sets the staple in place. Strike the handle with palm of hand, staple enters ordinary surfaces with one stroke. Staples come in strips and can be loaded in a few seconds. Adjustable fitting regulates depth staple is to be driven into surface, thus avoiding damage to insulation on wire.

Your Cost

*No. 500 Rust Proof Finish.....	\$6.60
*Includes one box staples.	

WALSCO STEEL STAPLES

Available in ivory, brown or blue.

No. 550 —Contains 250 staples.	
Your Cost.....	\$0.48
No. 552 —Contains 1,000 staples.	
Your Cost.....	1.80

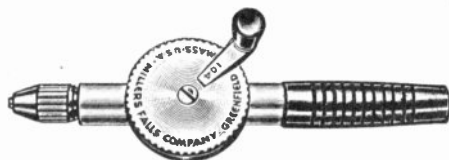
RADIO HEADQUARTERS FOR DEALERS AND SERVICEMEN

**MILLERS FALLS
TOOLS**

SINCE
1868

MAKERS of FINER TOOLS

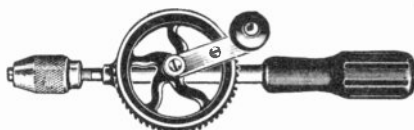
**New Millers Falls Hand Drill
No. 104 HAND DRILL
1/4 inch capacity**



This newest and finest Millers Falls Hand Drill for dependability. Frame and Gear Cover—Die cast aluminum. End Handle—Red plastic with screw cap. Will hold standard twist drills. Chuck—Newskirted design with three hardened jaws holding 0 to 1/4 drills. Equipment—Eight drill points 1/16" to 11/64" diameter packed in hollow end handle. Finish—Chuck bright nicked. Frame and Gear Cover grey enamel. Handles sparkling red plastic.

No.	Cap.	Length	Your Cost
104	1 1/4"	12 5/8"	\$7.00

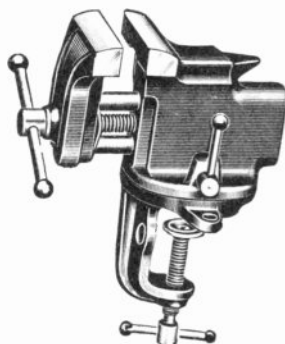
No. 2500 M-S HAND DRILL



Solid steel frames, single speed, cut gears and equipped with three-jawed chucks that hold 0 to 1/4 inch round shanks. Handles mahogany finished hardwood.

No. 2500A Your Cost..... \$3.38

No. 18 M-S SWIVEL VISE



Equipped with swivel base so vise can be swung to any desired angle, and locked by the lever at right. Machined jaws 2 1/2 inches wide opening 2 1/4 inches. Clamps to bench up to 2 inches thick. Finished in red and black.

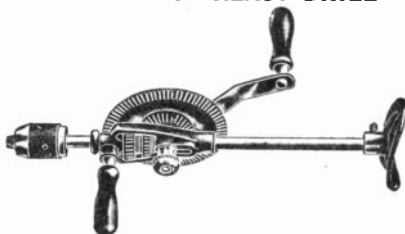
No. 18 Your Cost..... \$4.48

**TELEPHONE YOUR ORDERS
FOR SPEEDY SERVICE**



We sell everything in radio

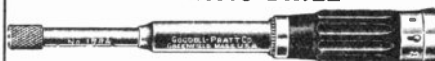
No. 7740 M-S BREAST DRILL



A sturdy, dependable, two-speed drill with a three-jawed steel chuck holding 0 to 1/2 inch round shanks. Machine cut gears; two steel pinions; quick, positive gear shift; handles mahogany finished hardwood. Length 16 1/2".

No. 7740 Your Cost..... \$7.00

AUTOMATIC DRILL

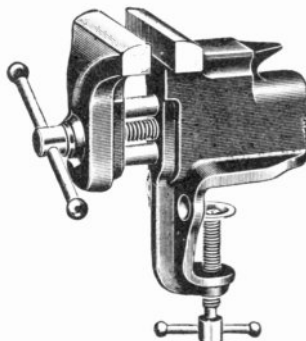


For boring the many holes needed from time to time by radio servicemen, electricians, etc. It drills eight different size holes, in hard and soft wood, soft metals, plaster, etc. The eight drill points are contained in the numbered compartments in the magazine handle. Simply push down a few times, allowing the handle to spring back after each stroke, and there is a good clean hole.

Eight fluted shank drill points, 1/8 inch to 1 1/4 inch in diameter, are furnished with each drill. Length 9 3/4".

No. 188A Your Cost..... \$4.20

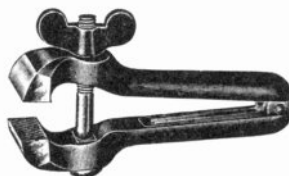
No. 1700 M-S VISE



A strong, rigid vise with machined jaws 2 1/4 inches wide that open 2 1/4 inches. Small anvil on body casting. Body finished in red, movable jaw in black enamel. Clamps to bench up to 2 inches thick.

No. 1700 Your Cost..... \$3.50

No. 3 HAND VISE



Forged steel jaws and handles. Jaw faces checked to give good grip. Tightened by means of heavy steel thumb nut and screw bolt. Heavy spring opens jaws as nut is loosened.

Length	Width	Jaws	Jaws	Your
No. 3	5 inch	1 1/2 inch	1 1/4 inch	\$4.06

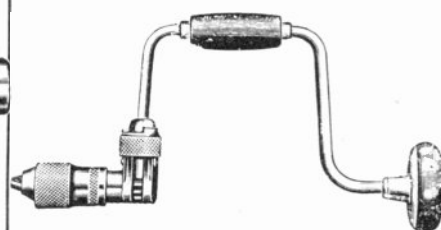
HAND DRILL



The addition of a new idler pinion to this drill makes it an even greater value. Nicked three-jawed steel chuck with protected springs holds 0 to 1/4 inch round shank drills. Steel pinions. Handles solid mahogany finished hardwood. Length 12 1/4".

No. 77 Your Cost..... \$4.20

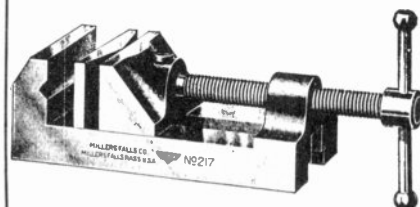
No. 1710 M-S BRACE



A new brace equipped with a Barber chuck with alligator jaws and semi-boxed steel ratchet. Knurled shifter ring controls ratchet mechanism. Steel clad, ball bearing head made of hardwood, nicely finished in mahogany lacquer. All exposed metal parts nicely polished, nickled and buffed. Sweep 10".

No. 1710 Your Cost..... \$4.56

BENCH DRILL VISE



A well made, nicely finished vise for use at the bench or on a bench drill or drill press. Removable swivel jaw. Steel screw provided for fastening securely to drill table. Capacity with swivel jaw removed, 3 inches.

No. 217 Your Cost..... \$7.84

ROSE COUNTERSINK



Round shank. Tool steel. Made for breast and electric drills. 1/2" diameter. Length overall 1 3/4".

No. 410 Your Cost..... \$0.56 ea.

6' STEEL TAPE



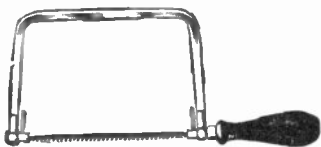
Spring Button Return. Nickel Plated Case. 1260—Your Cost Each..... \$0.75 ea.

KEEP YOUR STOCK UP-TO-DATE

**MILLERS FALLS
TOOLS**
SINCE
1868

TOOLS for EVERY SERVICEMAN

COPING SAW FRAMES



The frame is made of $\frac{3}{8}$ x $\frac{3}{8}$ inch round edge spring steel. The pins set firmly in the studs permit the blade to be turned in any desired direction. One No. 65 blade furnished with each frame.

All exposed metal parts heavily nickel plated and buffed. Depth throat 4 $\frac{3}{4}$ ".

No. 43 Your Cost \$1.66

COPING SAW BLADES

Pin pattern blades are heavier, cut faster and straighter and will outwear the finer tooth blades.

	Size	Your Cost	Doz.
No. 60	6 x $\frac{3}{32}$ inch	\$0.05	\$0.45
No. 65	6 $\frac{1}{2}$ x $\frac{3}{32}$ inch	.05	.45

SQUARE HEAD CENTER PUNCH



Hardened and tempered points and heads. Bright finish. Body $\frac{3}{8}$ ". Length 4".

No. 460 Your Cost \$0.24

CENTER PUNCH



Knurled bodies. Shanks and head polished. Points finely finished.

No.	Body	Length	Your Cost
141	$\frac{3}{8}$ "	4"	\$0.22
142	$\frac{3}{8}$ "	4"	.28
145	$\frac{1}{2}$ "	4"	.38
146	$\frac{1}{2}$ "	5"	.45

DIAMOND POINT AWL



This new awl is an unusually fine value. The blade is hammer forged tool steel, carefully hardened, tempered and polished. The handle, protected by a heavy steel ferrule, is selected hardwood. Overall 6 $\frac{3}{4}$ ". Blade 3 $\frac{1}{2}$ ".

No. 365 Your Cost \$0.85

COLD CHISELS



The chisels hammer-forged from a high grade of octagon alloy steel. The blades and heads are ground and polished.

No.	Width of Blade	Length	Your Cost
No. 1150	$\frac{1}{4}$ inch	5"	\$0.35
No. 1154	$\frac{3}{8}$ inch	5"	.40
No. 1156	$\frac{1}{2}$ inch	5"	.45

"TUF-FLEX"

TUF-FLEX

Tuf-Flex is an amazing blade. It is super-tough, super-flexible and super-hard. In the hands of the experienced mechanic, Tuf-Flex gives equally wonderful performance. On tool steels and hard materials its performance is equal to many all hard tungsten blades.

No.	Length inches	Teeth Per. In.	Your Cost	Doz.
53FH	10	18	\$0.11	\$0.90
63FH	10	24	.11	.90
55FH	12	18	.13	1.07
65FH	12	24	.13	1.07

WORK FASTER WITH FLEX-O-GRIP



A new kind of flexible snapper for getting into inaccessible places. Spring jaws on far end operated by pushing with the thumb on near end.

Your Cost \$0.90

BALL PEIN HAMMERS



Drop forged from selected steel and carefully heat treated. Handles of straight grain hickory securely fastened to the head.

212H $\frac{3}{4}$ lb. Your Cost \$1.70

MOLYBDENUM NAIL SET



Point and body made of molybdenum alloy steel. Heat treated to make it tough. Carefully cupped points provide a good bite, and equalize stresses preventing breakage. Square head prevents rolling.

No. 815 Your Cost \$0.28

No. 10 M-S AWL



Fitted with a 2 $\frac{5}{8}$ -inch carefully tapered, pointed and polished steel blade set in a hardwood handle attractively finished in red and black lacquer. Ferrule nickel plated.

No. 10 Your Cost \$0.25

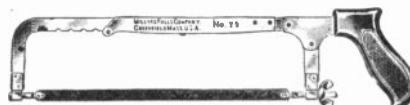
KEYHOLE HACK SAW



Cuts nails, metal lath, conduit, packing, bone, bakelite, fibre, hard and soft wood, etc., etc. Mounted on an attractive two-colour display card. The handle is nicely finished in red and black enamel; it is light and fits the hand comfortably. The blade made with 18 teeth per inch. It has a flexible back which minimizes breakage.

No.	Length Blade	Your Cost
No. 237	5 $\frac{1}{2}$ inches	\$0.50
No. 7	Extra blades, 18 tooth	.20
No. 8	Extra blades, 24 tooth	.20

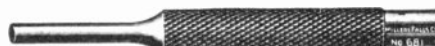
HACK SAW FRAME



A serviceable frame at an attractive price. Handle of black composition, reinforced its entire length, knurled and shaped to give a comfortable grip. Blade can be faced four ways. Equipped with one 10-inch blade. For 8 to 12 inch blades. All exposed metal parts nickel plated and buffed.

No. 99 Your Cost \$1.40

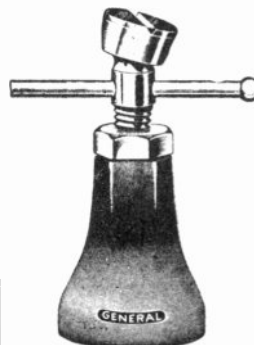
MACHINISTS' PIN PUNCHES



These punches are made from a very high grade of round tool steel about four inches long. The centers are knurled and the points and shanks nicely polished. Blued finish.

No.	Points	Your Cost
No. 681	$\frac{1}{16}$ inch	\$0.30
No. 682	$\frac{3}{32}$ inch	.30
No. 683	$\frac{1}{8}$ inch	.30
No. 684	$\frac{3}{16}$ inch	.30
No. 685	$\frac{1}{4}$ inch	.30
No. 686	$\frac{5}{16}$ inch	.30
No. 687	$\frac{3}{4}$ inch	.30
No. 688	$\frac{1}{2}$ inch	.30

MACHINIST'S JACK



A real screw jack. Will lift over 1000 lbs. For use on drill presses, milling machines or any place where leveling or adjusting is necessary. One inch screw adjustment. 3" high when closed; 4" when opened.

No.	Your Cost	Doz. Lots
No. 7	\$0.90	\$7.20

COMPLETE STOCK OF SERVICEMEN'S TOOLS ON HAND

Mueller UNIVERSAL Clips

THE ONLY COMPLETE LINE — A CLIP FOR EVERY PURPOSE



STEEL CLIPS

Screw or Lug connections—No solder required—Strong Channel-construction throughout—Polarity indications for Positive, Negative.

Steel Clips

No.	Lgt.	Description	Your Cost		
			Ea.	Box of 10	Lot of 100
45	1 1/2"	Pee Wee.	.09	0.54	\$4.70
48B	2"	General Use...	.10	0.60	5.00
27	2 1/2"	20 amp.	.14	1.00	8.40
24A	2 3/4"	25 amp.	.16	1.15	10.00
21A	4"	50 amp.	.24	1.75	15.00
11A	6"	100 amp.	.90	6.30	54.00

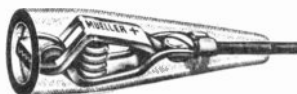


SOLID COPPER CLIPS

For High Frequency Work. Phosphor bronze spring, brass screw. Will not heat up in high frequency test work, entirely nonferrous.

Solid Copper Clips

No.	Description	Your Cost		
		Ea.	Box of 10	Lot of 100
45C	Radio	.12	0.80	\$ 7.00
48C	Auto	.14	1.00	8.40
27C	40 amp.	.24	1.70	13.30
24	50 amp.	.30	2.20	17.50
21	100 amp.	.74	5.10	45.00
11	200 amp.	1.48	10.40	89.00
33	300 amp.	2.57	17.70	152.00



RUBBER INSULATORS

Offer a convenient protection against short circuit and electric shock. Available in Red and Black. For use with steel or solid copper clips.

Insulators

No.	Ea.	Your Cost	
		Box of 10	Lot of 100
47	.15	1.00	\$ 8.50
49	.15	1.00	8.50
29	.23	1.60	14.00
26	.31	2.20	18.50
23	.45	3.10	27.00
13	.73	5.00	43.00
35	1.92	13.50	115.00



BATTERY POST ADAPTER

For making non-corrosive, semi-permanent connections to storage batteries.

No. 103. Your Cost ea. \$0.32

WEE-PEE-WEE CLIP



Non-ferrous R.F. Clip. Will not heat in high frequency circuits. Ideal for tapping coils. Length 1 1/4". Completely insulated with Red or Black Jacket.

No. 8893. Your Cost ea. \$0.27

ALLIGATOR CLIPS

Conventional Type



Powerful grip end takes banana plug.

No. 60. Length 2".

Your Cost

Ea.	Box of 10	Lot of 100
.10	\$ 0.60	\$ 5.30

Insulated Plug Type



Will fit the banana type plug or prod handles. Available in Red or Black.

No. 60HS.

Your Cost

Ea.	Box of 10	Lot of 100
.15	\$ 1.10	\$ 9.00

SOLID COPPER ALLIGATOR CLIPS

Has steel spring, non ferrous. Same as above types. Ideal for high frequency work, 10 to a box.

No. 60CS. Has screw connection for soldering.

No. 60CHS. Copper alligator clip with insulated handle in Red or Black.

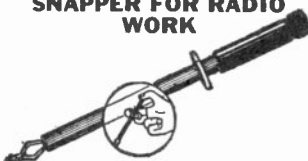
INSULATED GRID CLIP ASSEMBLY



One Universal Clip that Fits Them All. This assembly is made up of a Pee-Wee Clip, a rubber insulator over the clip, 10 inches of flexible rubber-covered wire and standard phone tip.

No. 106. Your Cost ea. \$0.32

SNAPPER FOR RADIO WORK



A new kind of insulated, elongated test clip for getting into inaccessible places. Jaws on far end operated by push of thumb on near end. A test clip, prod and retriever all in one.

No. 99. Your Cost... \$1.12

CROCODILE CLIPS



No. 85 Clip with No. 87 Insulator

A very small clip with slender, elongated jaws for getting into tight places in radio or electrical test work. Teeth really mesh. Screw connection. 2 3/4" long.

No. 85.

Your Cost

Ea.	Box of 10	Lot of 100
.10	\$ 0.60	\$ 5.40

No. 87. Insulators for either clip. Red or Black. Protects against shorts and shock.

Your Cost

Ea.	Box of 10	Lot of 100
.14	\$ 0.90	\$ 7.70



No. 85-T Clip

Same as No. 85 except with phone tip on one jaw. Ideal for use as a prod and for ordinary clip connections.

No. 85T

Your Cost

Ea.	Box of 10	Lot of 100
.20	\$ 1.33	\$11.00

No. 85C. Solid copper for high frequency work. Same style as No. 85.

Your Cost

Ea.	Box of 10	Lot of 100
.14	\$ 0.95	\$ 8.00

PHONE FOR SPEEDY SERVICE

MONTREAL
PL 3421 ★

TORONTO
Mi 2481 ★



FOR FASTER SERVICE ORDER FROM OUR NEAREST BRANCH

brings you 1948 models in **FLUORESCENT**
Light

SAVE
YOUR
EYES

SAVE
up to 50%
in your
LIGHT BILL

MODERNIZE
with
FLUORESCENT

MODEL PLBD



The very latest outstanding design for your bedroom, made of plastic, supplied in ivory or mahogany colors.
Double button switch for instant lighting.
Built in FILTER to eliminate RADIO interference.
Rubber covered hooks and flannel padded back to facilitate hanging and protect against scratching.
Comes with 6 foot extension cord.

MODEL BD



A MODERN BED LAMP

Neat, smart design for modern homes. Solves the problem of reading in bed.

LIST PRICE

MODEL	LENGTH	LAMPS	60 cycle L.P.F.
BD 15	18"	1-15W. T8	\$10.08
PL 3D	15"	1-8W.	13.34



MODEL DK ECONOMY STYLE

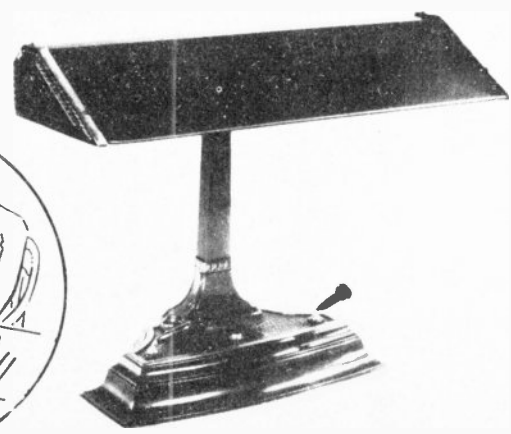
Heavy cast base and column.
Streamlined reflector.
Hard baked brown crinkle finish.
Uses 1-T8, 15 watt lamp, 60 cycle L.P.F.
Model DK -List Price..... \$14.40

MODERN DESK LAMPS



MODEL HDK DE LUXE

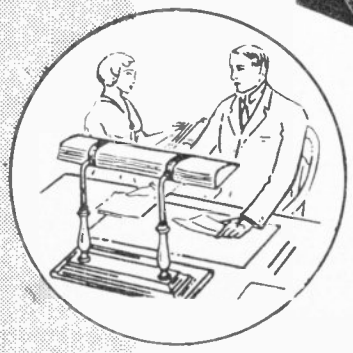
Very smart cast ends of distinctive design.
Two-tone bronze plated ornamental cast ends.
Uses 1-T8, 15 watt lamp, 60 cycle L.P.F.
Model HDK -List Price..... \$20.16



MODEL PDK

DE LUXE PEN HOLDER

Very outstanding lines.
Two-tone bronze plated desk lamp.
Extra large base with pen holder.
Uses 1-T8, 15 watt lamp, 60 cycle L.P.F.
Model PDK -List Price..... \$23.04





Save your eyes

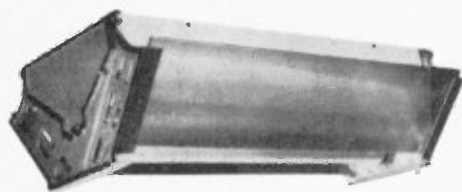
DE LUXE COMMERCIAL UNITS

MODELS NR & NRL

These units are new in design and concept, create a pleasing effect. Louvre prevents glare in all normal viewing angles and are particularly useful in preventing eyestrain when looking down the length of a fixture or line of lights. At the same time these louvers allow a maximum amount of light to be projected downward.

NR & NRL—Finished with bronze plated ends.

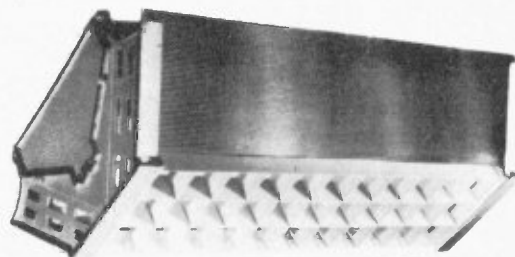
LESS LOUVRE



MODEL	Length	LAMPS	LIST PRICE		
			60 cycle		25 cycle
			H.P.F.	Inst. Start	H.P.F.
NR 2-40	48"	2-40w.	\$40.32	\$48.96	\$54.72
NR 4-40	48"	4-40w.	64.80	82.08	93.60

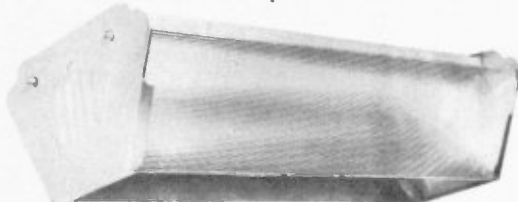
WITH LOUVRE

MODEL	Length	LAMPS	LIST PRICE		
			60 cycle		25 cycle
			H.P.F.	Inst. Start	H.P.F.
NRL2-40	48"	2-40w.	\$48.96	\$57.60	\$ 63.36
NRL4-40	48"	4-40w.	73.44	90.72	102.24



MODEL VCG GLASS PANELS TWO-IN-ONE-UNIT

A particularly good-looking fluorescent fixture. A glass shield unit with two SKYTEN panels provide soft, diffused side illumination. Open bottom for maximum light efficiency. Also sold with louvre. Knock out at each end for continuous mounting, adaptable for;
 ★Surface mounting ★Continuous mounting ★Chain suspension ★Rods and canopy.
 V.C.G. available with special louvre at \$2.16 for 24" fixture, and \$3.60 for 48" fixture.



MODEL	Lgt.	Lamps	LIST PRICE			
			60 cycle		25 cycle	
			L.P.F.	H.P.F.	Inst. Start	H.P.F.
VCG 2-20	24"	2-20w.	\$19.58	\$24.20		
VCG 4-20	24"	4-20w.	33.12	42.36		
VCG 2-40	48"	2-40w.		36.00	\$42.68	\$49.34
VCG 4-40	48"	4-40w.		57.44	70.78	84.12

Additional side glass panel 48" add. \$2.14 list.

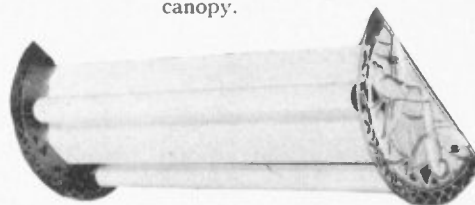
Additional side glass panel 24" add. \$1.34 list.

MODEL VC—MOST POPULAR COMMERCIAL UNIT EVER DESIGNED

Ornamental round cast iron ends.
 Each lamp is placed in individual curved reflector for highest efficiency.
 Hard baked white enamel finish. Adaptable for;

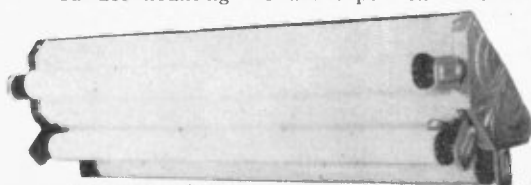
- ★ Surface mounting
- ★ Continuous strip
- ★ Chain suspension
- ★ Decoration needed, rods and canopy.

MODELS	Lgt.	Lamps	LIST PRICE			
			60 cycle		25 cycle	
			L.P.F.	H.P.F.	Inst. Start	H.P.F.
VC 2-20	24"	2-20w.	\$12.94	\$16.96		
VC 3-20	24"	3-20w.	18.94	23.02		
VC 4-20	24"	4-20w.	24.94	33.07		
VC 2-40	48"	2-40w.		28.94	\$35.60	\$42.27
VC 3-40	48"	3-40w.		39.34		
VC 4-40	48"	4-40w.		50.38	63.71	77.04



MODEL FC

Simple open type lighting units. Wide light distribution. Decorative cast iron ends for socket protection. All white baked enamel finish. Adaptable for;
 ★Surface mounting ★Chain suspension ★Decorative rods and canopy.



MODEL	Length	LAMPS	LIST PRICE		
			60 cycle		25 cycle
			H.P.F.	Inst. Start	H.P.F.
FC 2-40	48"	2-40w.	\$28.94	\$35.60	\$42.27
FC 3-40	48"	3-40w.	39.34		
FC 4-40	48"	4-40w.	50.38	63.71	77.04

DEALERS DISCOUNTS 50% ON ALL FIXTURES

USE FLUORESCENT LAMPS



RESIDENTIAL STYLES

DE LUXE KITCHEN UNIT WITH GLASS PANELS

Model KUG—Smart pleasing design. Decorative glass shields provide glare-free soft illumination.

Model	Length	Lamps	LIST PRICE	
			60 cycle	25 cycle
KUG 2-20	24"	2-20W	\$15.55	\$17.05



ROUND KITCHEN UNIT

Model KUF—Smart and modern appearance. All reflecting and ends surface white enamel.



Model	Length	Lamps	LIST PRICE	
			60 cycle	25 cycle
KUF 2-20	24"	2-20W	\$11.52	\$14.02
KUF 3-20	24"	3-20W	16.06	17.56

ROUND OPEN TYPE UNIT

Model KU—A rich design to suit your taste. All reflecting surface white baked enamel. Give that bright look to your kitchen.

Model	Length	Lamps	LIST PRICE	
			60 cycle	25 cycle
KU 2-20	24"	2-20W	\$11.52	\$14.02
KU 3-20	24"	3-20W	16.06	17.56



WALL OR CEILING BRACKET

Model SCH—All purpose commercial unit finish white baked enamel.

*Excellent value
*At low cost



Model	Length	Lamps	LIST PRICE	
			60 cycle	25 cycle
SCH 15	18"	1-15W	\$ 6.00	\$ 6.75
SCH 20	24"	1-20W	6.00	6.75
SCH 30	36"	1-30W	13.34	21.60
SCH 40	48"	1-40W	13.34	21.60

DE LUXE BRACKET TYPES

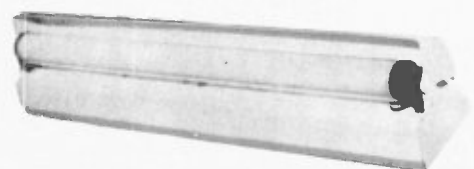
Model BC—Wall or ceiling bracket. All purpose commercial unit. Ornamental cast iron ends to protect socket, finish white baked enamel on all faces.

Model	Length	Lamps	LIST PRICE	
			60 cycle	25 cycle
BC 15	18"	1-15W	\$ 6.00	\$ 6.75
BC 20	24"	1-20W	6.00	6.75
BC 30	36"	1-30W	13.34	21.60
BC 40	48"	1-40W	13.34	21.60



MODERN ADJUSTABLE REFLECTOR UNITS

Model BRF—Fitted with adjustable reflector for indirect illumination. For bathrooms, picture illumination, etc.



Model	Length	Lamps	LIST PRICE	
			60 cycle	25 cycle
BRF 20	24"	1-20W	\$9.34	\$10.09

A rich variety of designs to suit every taste. Ideal for planned kitchens, playrooms, bathrooms, bedrooms, libraries, hallways, etc.



117 DEALERS' DISCOUNTS 50% ON ALL FIXTURES

World Radio History



Industrial Fixtures ★

MODEL INC

Industrial fixtures by lighting craftsmen.

Finish: **Hard Baked Silvergrey.**

Reflecting surfaces: **Scientifically treated baked hard White Enamel.**

A development of perfection in this superior fixture for fluorescent lighting in industrial plants. Actual tests indicate that this unit provides the ideal lighting in spaces where highly intense fluorescent illumination is a requisite.



LIST PRICE

MODEL	Lgt.	Lamps	60 cycle		25 cycle	
			I.p.f.	h.p.f.	Inst. Start	h.p.f.
INC 2-20	24"	2-20w.	\$12.96	\$17.26		
INC 2-40	48"	2-40w.		29.60	\$36.80	\$41.07
INC 4-40	48"	4-40w.		52.67	67.07	76.00

MODEL C ALL PURPOSE INDUSTRIAL UNIT

Extra wide reflector finish white enamel. Cast ends for socket protection.



LIST PRICE

MODEL	LENGTH	LAMPS	LPF 60 cycle	
C 20	24"	1-20w.	\$ 8.64	
C 40	48"	1-40w.	14.40	

MODEL COR CORNER UNIT

Corner units solve the problem of illuminating low ceiling where cross beam prevent installation of center fixtures.

Ideal for side illumination of backgrounds, displays, etc.

Finished all white baked enamel.

Also adjustable as continuous strip mounting.



LIST PRICE

MODEL	Lgt.	Lamps	60 cycle		25 cycle	
			I.p.f.	h.p.f.	Inst. Start	h.p.f.
COR 20	24"	1-20w.	\$ 9.50			
COR 40	48"	1-40w.	15.84			
COR2-40	48"	2-40w.		\$34.56	\$33.20	\$48.96

MODEL SHOW SHOW CASE UNIT

Neat, inconspicuous for illumination of glass showcases, cupboards, etc.

Dimensions kept at minimum.

Available in two models;

A—Only lamps and sockets are in the fixture;

Ballasts and starters in a special separate box for installation elsewhere;

Fixture can be connected with the box with conduit or tubing (not supplied).

or B—Ballasts and starters built-in into the fixtures along side of the lamps.



MODEL	LENGTH	LAMPS	LPF LIST PRICE	
SHOW	36"	1-30w.	\$18.72	
SHOW	54"	3-15w.	33.12	

MODEL W STRIP AND INSPECTION FIXTURE

Specially designed for store window illumination.

Slanted construction concentrates the light on the merchandise displayed.

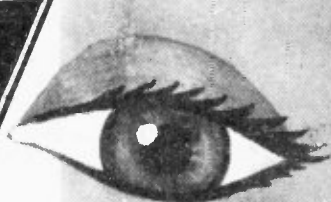


LIST PRICE

MODEL	Lgt.	Lamps	60 cycle		25 cycle	
			I.p.f.	h.p.f.	Inst. Start	h.p.f.
W 2-20	24"	2-20w.	\$14.40	\$19.02		
W 3-20	24"	3-20w.	21.60	26.22		
W 4-20	24"	4-20w.	27.36	36.59		
W 2-40	48"	2-40w.		28.59	\$35.60	\$42.27
W 4-40	48"	4-40w.		39.34		
W 8-40	8"	8-40w.		50.38	63.71	77.04

DEALERS' DISCOUNTS 50% ON ALL FIXTURES

Designs for Efficiency



SENSATIONALLY NEW!



MODEL TURRET 2-40

New industrial fluorescent unit using G.E. twin turret sockets. With detachable reflector mounted on wing nuts. Lamps spaced on 3 1/2 in. centres. Streamlined positive-locking General Electric sockets. Finished in hard baked white enamel inside and out. Adaptable for chain suspension and rod hangers.

Model 2-40	60 cy.	25 cy.	60 cy Inst. Start
List Price	\$17.34	\$24.00	\$20.68

LOW-BRITE

Provides high efficiency without distracting glare for school lighting, offices, over drafting tables, etc. Can be placed against the ceiling or suspended on chains or hanged on decorative rods and canopy. An ideal combination for low brightness and high efficiency. Hinged louvres.

RG Low-Brite

Model 2-40	60 cy. H.P.F.	Inst. Start	25 cy. H.P.F.
List Price	\$58.66	\$64.54	\$72.66

PROPORTIONATE LIGHT DISTRIBUTION



A CROWNING ACHIEVEMENT

Semi-recessed LENSCRAFT



Featuring the newly developed corning curved Flur-O-Guide panels. The curved, prismatic design of the Flur-O-Guide panels controls the light output of fluorescent lamps by directing it into useful working areas, producing the highest efficiency of illumination.

Model Lenscraft

Model 4-40	60 cy. H.P.F.	Inst. Start	25 cy. H.P.F.
List Price	\$96.00	\$53.87	\$107.74

THE NEW Streamliner

Versatile multi-purpose LUMINAIRE louvered for downward diffusion of light. Combined with an adjustable, swivel-mounted spotlight for high-lighting or dramatic effects. Can be placed against the ceiling or suspended on chains or hanged on decorative rods and canopy. Finished in durable, hard-baked Glow White polymerized enamel.



AS ONE UNIT

Can be used as (1) Single basic unit. (2) Single basic unit with Skytex glass panels for low glare lighting effects. (3) Two basic units joined for continuous mounting, or (4) Two basic units joined with spotlight

List Price Model	Basic Units			With glass or Metal Shields			With Shields And Louvres		
	60 cycle	Inst. Start	25 cycle	60 cycle	Inst. Start	25 cycle	60 cycle	Inst. Start	25 cycle
2-20	\$14.00			15.74			\$22.00		
4-20	30.00			31.74			40.66		
2-40	30.26	\$36.14	43.60	32.94	\$38.80	46.26	40.00	\$45.86	53.34
4-40	52.00	65.34	78.66	27.34	68.00	40.66	66.66	80.00	93.34

DEALER'S DISCOUNT — LESS 50%

INFORMATION

LAMPS—Prices do not include lamps.

VOLTAGE—All fixtures shown are for 25 and 60 cycles, 110 volts only. Please specify when ordering.

C.S.A. APPROVAL—Complete units, ballasts, lampholders, etc. are listed separately by C.S.A. Laboratories as conforming to the provisions of the Canadian Electrical Code. Complete units carry C.S.A. inspection label.

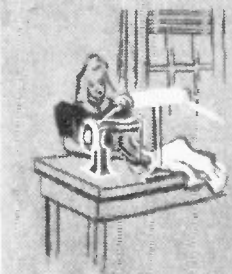
PACKING—Well-designed corrugated cartons ensure safe transportation of fixture. Cartons are securely bound, and are battened inside to prevent any movement of fixture. Fixtures are packed in individual cartons.

ORDERING—Always state number of fixture. High or low power, 60 or 25 cycle.

SHIPMENTS—Unless definite shipping instructions are given we will use our own judgment. We cannot honour claims for excessive transportation charges.

CLAIMS—Do not return goods unless you have instructions from us.

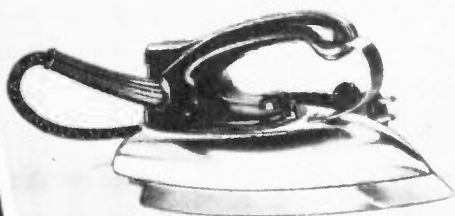
PRICES—Subject to change without notice.





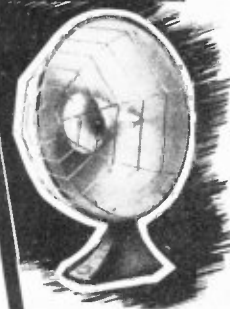
Westinghouse

Electrical Appliances



Model R.H. 2 Cosy glow heater. Solid metal base, chromium reflector.

List Price..... **\$12.95**



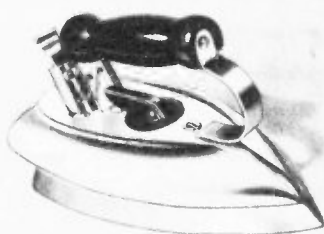
Electric Irons

Model I.B. 2 "De Luxe". Cool comfortable handle, finger tip, control, permanently attached cord.

List Price..... **\$14.50**

Model I.W. 2 "Standard". Automatic heat control, perfect balance for easy ironing.

List Price..... **\$12.95**



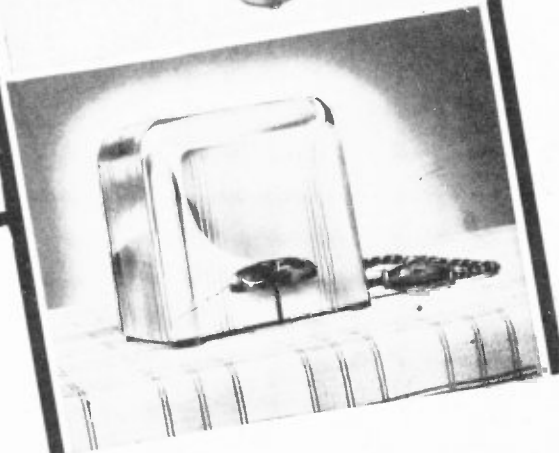
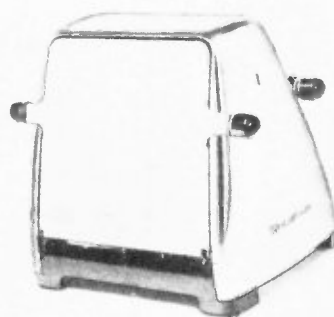
Electric Toasters

Model T.T. 2 "Turnover". Attractive design in rich chrome, turns toast automatically.

List Price..... **\$9.75**

Model T.H. 2 "Autocrat". Toasts 2 slices both sides in 90 seconds, permanently attached cord with on and off switch.

Semi-Automatic
List Price..... **\$16.95**



Model W.P. 2

Electric warming pad with three speed regulator. In blue and green.

List Price..... **\$8.95**



DEALERS: PLEASE WRITE FOR CONFIDENTIAL NET PRICES

ORDER REPLACEMENT PARTS FOR ALL WESTINGHOUSE APPLIANCES FROM US

GENERAL ELECTRIC



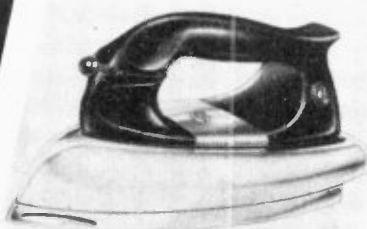
Model K-40 Electric Kettle Fast...Safe...Economical

This electric kettle acts in a marvellous way. Boils enough water for four cups of tea in three minutes. It has a wide opening spout which makes filling very easy.

Capacity of four pints. Finished in chrome with black bakelite handle, it makes an attractive kitchen appliance.

List Price

Model K-40. Kettle..... \$17.50



Model F-80 Featherweight Automatic Iron Features

Visualizer—Located on front of handle, is simple to use—easy to set, easy to check, and cool-to-the touch. Temperature-indicating light signals the iron has reached the correct temperature for the fabric you have dialed. Weighs only two and three-quarter pounds.

Super Air-Cooled Handle—Cool, form-fitting handle with double thumb rests to right-handed or left-handed ironers. Delivers 1000-Watt Calrod—Heating Unit. Double button mooks for quicker and faster ironing around and under buttons.

High Precision Thermostat—Assures a constant temperature at the indicated setting.

Model F-80. List Price..... \$14.95

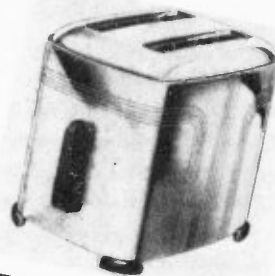


Model F-73 Automatic Iron

Model F-73 has a high speed calrod element and an automatic temperature control. Comfortable with thumb rest double button-nooks.

Weight 5 lbs.—1000 watts.

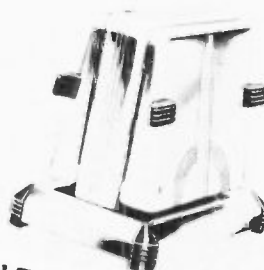
Model F-73. List Price..... \$12.50



Model T-22 Closed Toaster

Toasts one or two slices at a time without turning. Has good quality high speed elements and a built-in switch. The switch automatically cuts the current when the slices are pull out. Chromeplate finish.

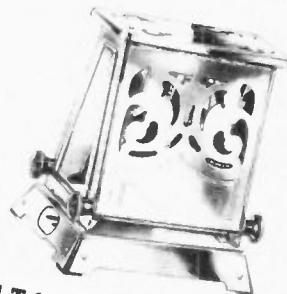
Model T-22 Toaster—List Price..... \$16.95



Model T-19 Toaster

Streamlined and ruggedly constructed it has bakelite handles and feet. A good quality element plus a gleaming chrome finish makes it the best turnover toaster.

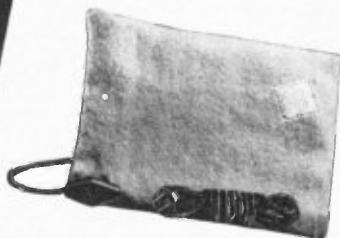
Model T-19 Turnover Toaster..... List Price \$9.95



Model T-12 Toaster

Toasts two large slices of bread at one time. Turns the bread automatically when the sides are lowered. A very good chrome plate finish.

Model T-12 Toastover. List Price... \$11.00



Model Q-17 Warming Pad

Get rid of your old "water bottle" use Q-17 Warming Pad which provides a quick and a gentle heat. Four thermostats give three definite heat. Wet proof inside cover. Zipper on outside cover. Kenwood wool in choice of blue or rose.

List Price

Model Q-17 Warming Pad..... \$8.95

WRITE FOR CONFIDENTIAL DEALERS' DISCOUNT

— STANDARD • GIANT • MOFFAT —

Electrical Appliances

FOR MORE PROFIT MOFFATS "handi-chef"

COOKS A COMPLETE MEAL AT ONE TIME

The "handi-chef" performs two cooking operations at one time. The Moffat 3-heat switch gives ample heat adjustment. Easy to clean interior, finished in porcelain enamel.

"Handi-chef"

For those not requiring roasting and baking facilities, "handi-chef" alone is an incomparable housekeeping aid. Cooks complete family size meals all at once! Ideal for the hostess, bachelor apartments, recreation rooms, etc.

MODEL 40H-7—List Price..... \$29.95

Oven and Griddle

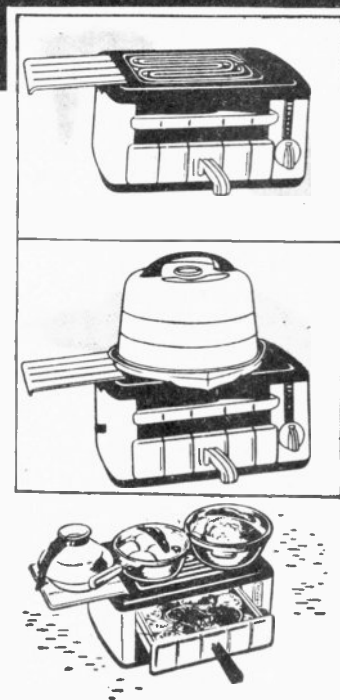
A useful addition for baking and roasting. Bakes delicious pies.....Roasts Chicken and 5½ pound roast to perfection.

MODEL 40B-7—List Price..... \$10.00

Combination "Handi-chef" and Oven

The complete combination that serves every cooking requirement. Boils, broils, fries, toasts, bakes and roasts. The world's most compact, complete plug in appliance.

MODEL 40C-7—List Price..... \$39.95



Giant DOUBLE HOT PLATES



Model 400

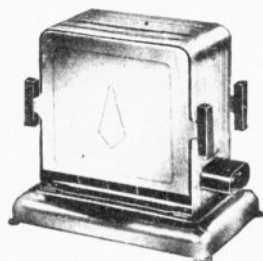
A NEW MODERN HOT-PLATE

Here is a new series of 1500 watt, 115 volts 7¾" and 5¾" combination hot-plate, 19" by 10" by 4". Made of heavy gauge cold rolled steel. Mounted on bakelite legs to avoid marking furniture, with individual switches. Good for years of service. Individually packed with manufacturer's guarantee against defect.

List Price		List Price	
No. 400 Ivory and Chrome....	\$10.85	No. 400 Plain Green.....	\$ 9.85
No. 400 Plain Ivory.....	9.85	No. 400 Black and Chrome....	10.85
No. 400 White and Chrome....	10.85	No. 400 Black Wrinkle.....	9.85
No. 400 Plain White.....	9.85	No. 400 All Chrome Plated....	12.85
No. 400 Green and Chrome....	10.85		

OUTSTANDING

MODERN OVEN TYPE TOASTER



A modern style toaster finished in highly polished chrome, compact in size, taking up a small space on the table. Very attractive appearance, to beautify the modern kitchen. Toasts two slices at one time. Operates on 110 volts AC 60 cycle. **No. T-52**—List Price..... \$4.90

LOW PRICE VALUES

SANDWICH TOASTER



Of modern streamline design, this highly polished chrome toaster is not only a pleasure to look at, but a sheer delight to use. Besides making delicious toast, it can be used to fry bacon, chops etc. 110 volts 60 cycle. Individually packed.

No. T-90—List Price..... \$10.95

by Standard

ALL CHROME FINISH SANDWICH TOASTER



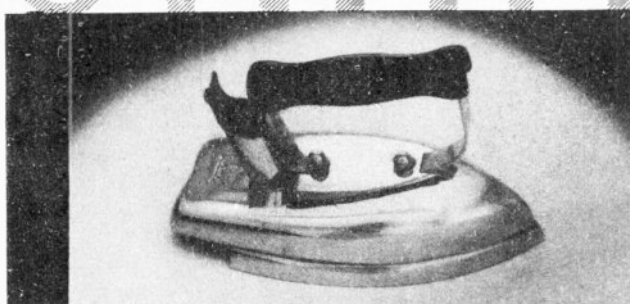
A beautiful modern all chrome sandwich toaster. Equipped with a heat indicator on the top of the cover to show the temperature. Combination sandwich and waffle toaster. Bakelite handles for coolness. 110 volts 60 cycle.

No. T-91—List Price..... \$12.75

INCREASE YOUR SALES WITH PROFITABLE ELECTRICAL APPLIANCES

DEALERS' DISCOUNT LESS 1/3

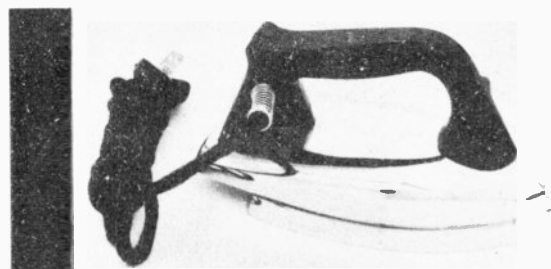
MODERN APPLIANCES



NEW GEMCO IRON

No. 100—A thoroughly dependable low priced iron with heavy cast iron bottom plate. Bright finish with comfortably round handle. Comes without cord. Rating 550 watts, 115 volts. Weight 5½ lbs.

List Price.....\$5.20



NEW MASTER IRON

No. 354—Attractive streamline chromium plated iron. Comes with cord and plug, molded into black plastic handle. Economical wattage, volts 115. Weight 5½ lbs.

List Price.....\$7.65

NEW MASTER WITH HEAT INDICATOR IRON

No. 354H—Attractive streamline, adjustable to the correct heat for every fabric. Comes with cord and plug, molded into black plastic handle. Economical wattage, volts 115. Weight 5½ lbs.

List Price.....\$8.80



CHROMIUM—PLATED DESK LAMP

No. 500—A very attractive appearance desk lamp. Durable chromium ensemble with heavy cast bases—finish black wrinkle.

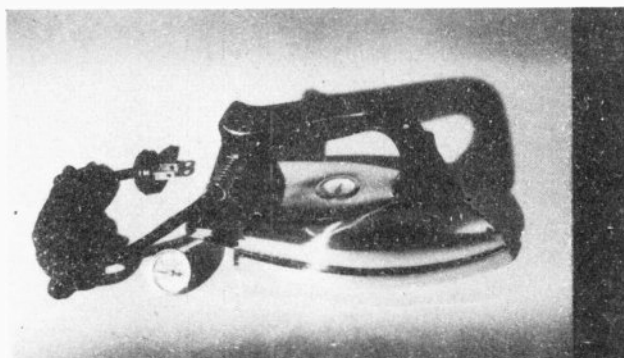
List Price.....\$4.95



NEW HEAT INDICATOR IRON

No. 182H—A thoroughly dependable low price iron with heat indicator for every fabric. Chrome finish, with comfortable bent handle. Comes without cord. Rating 115 volts. 550 watts. Weight 5½ lbs.

List Price.....\$5.85



DEALER'S DISCOUNT — LESS 33⅓%

SILEX

DISPLAY BOARD & REPLACEMENT PARTS

**FREE! A Silex Self Merchandiser.
Display Board for Replacement
Parts.**

A tested illuminated display board with 8 wonderful advantages. Compact-Colorful-Illuminated-Convenient-Neat-Sturdy-Time Saver-Traffic Builder. Free with the replacement parts kit. Space at back of display for storage of Silex parts.

Here's what you get:—

Quan.	Description	List Price
3	Lower wide neck bowl, 8 cup plain...	\$5.55
3	Upper wide neck bowl, 8 cup plain...	7.20
2	Lower wide neck bowl plat. dec., 8 cup.	3.90
2	Upper wide neck bowl plat. dec., 8 cup.	5.00
2	Narrow neck lower bowl, 8 cup plain...	4.50
2	Narrow neck upper bowl, 8 cup plain...	5.20
2	Anyheat control cords...	7.90
2	Heating elements...	2.90
2	Chromium decanter covers...	2.00
2	Molded decanter covers, black...	1.00
2	Molded covers, upper bowl, black...	.90
12	Lox-in Glass Filters...	9.00
3	Flavor-Guard Filters...	1.95
2	Pop-up handles, white...	3.50
2	Plain molded handles, black...	2.50
4	Individual Boxes of 8 filter cloths...	1.20
6	Rubber Plugs for wide neck...	2.70
3	Rubber Plugs for narrow neck...	1.20
Total		\$68.10



Back view showing storage space

List Price Total \$68.10, plus \$15.00
free board

Your Cost only \$44.26

UPPER BOWLS



	List Price
UW4-6S for Breton.....	\$2.40
UW8-S for Breton.....	2.40
UW12 for Breton.....	2.90
UWA-8 for Aiken.....	2.50

LOWER BOWLS



	List Price
LW4-6S for Breton.....	\$1.85
LW8-S for Breton.....	1.85
LW12 for Breton.....	2.35
LWA-8 for Aiken.....	1.95

LOWER BOWL DECORATIONS



	List Price
DLW-8 Moldex White for Breton.....	\$0.95
DLB-8 Moldex Black for Breton.....	.60
CLS-Chromium for Saratoga.....	1.60

UPPER BOWL COVER



	List Price
UDC Chromium for Saratoga.....	\$1.25
CO-W Moldex White for Breton.....	.50
CO-B Moldex Black for Breton.....	.45

DECANTER COVERS



	List Price
CSC Chromium for Saratoga.....	\$1.00
LBC Moldex White for Breton-Aiken...	.55
WTS-S Moldex Black for Breton.....	.50

HANDLES



	List Price
HJW-W White for Breton.....	\$1.75
HJB-W Black for Manhattan.....	1.25

"POP-UP" HANDLE



	List Price
HJP-W for Saratoga Aiken.....	\$1.75

RUBBER PLUG



	List Price
WPR all coffee makers	\$0.45

COLLARS



	List Price
MCW-W WHITE for Aiken-Saratoga....	\$0.55
MCW-B Black.....	.45

FLAVOUR-GUARD FILTER



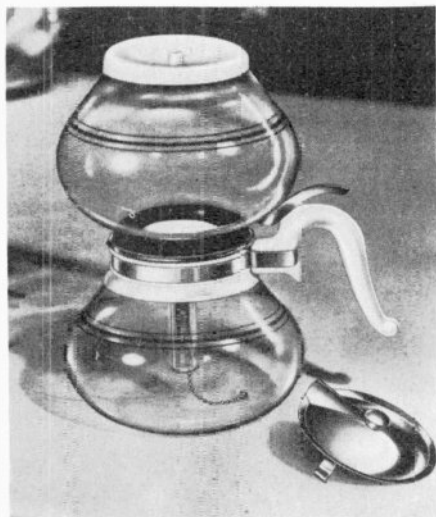
	List Price
CCF all coffee makers	\$0.65

DEALERS' PRICES GLADLY SENT ON REQUEST

ALL REPLACEMENT PARTS AVAILABLE FROM C.E.S.

SILEX GLASS COFFEE MAKERS

KITCHEN RANGE AND ELECTRIC MODELS



THE AIKEN

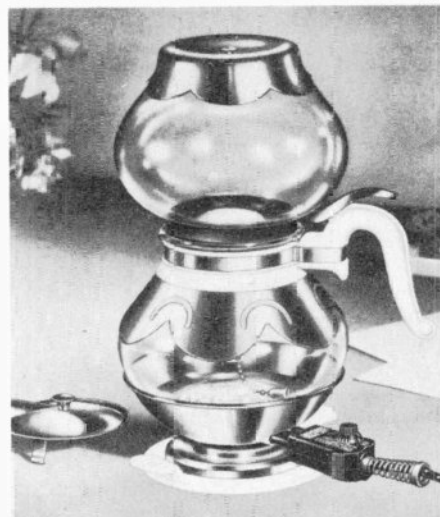
This attractive Kitchen range model is equipped with a white moldex upper bowl cover, collar, and "Pop-up" handle. Simplicity of design makes this one of the most popular of the Sillex line.

	List Price
A1-8B—Black.....	\$6.75
A1-81—White.....	6.75

THE SARATOGA

A beautiful model with an attractive appearance. A decorative clip conceals screw heads—reflects a distinctive improvement in design. Has the "pop-up" handle. With chromium plated upper bowl cover and decorated lower bowl.

SAM-81—8 cup white and chrome.	
Your Cost.....	\$8.95

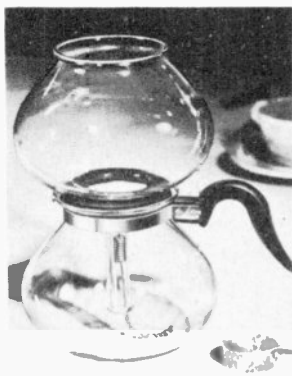


2 CUP DELRAY LOW PRICED FEATURE

Answer to thousands of consumers who only want to brew one or two cups of coffee. Equipped with the famous flavour-guard filter which can be used with or without cloth Dipper coffee measure and upper bowl included.

G 2-1—2 cup Ivory

List Price..... \$3.95



THE MANHATTAN MODESTLY PRICED

Simply styled but smartly proportioned, the Manhattan is a popular, modestly priced unit. Its clean design combines beauty with utility to produce better coffee made the Sillex way. Dipper coffee measure and extra cloth strainers are furnished.

	List Price
MMK-8B—Black.....	\$4.25



THE BRETTON GRACEFUL & MODERN

The graceful, modern styling of the Bretton adds beauty to any home. Equipped with a white or black moldex upper bowl cover and removable lower bowl decoration.

	List Price
TBK-81—White.....	\$6.25
TBK-8B—Black.....	5.25
TBK-12B	TBK-4-61
TBK-12BI	TBK-4B
TBK-4-6B	TBK-4I



ELECTRIC BUFFET SERVICE

An aid to gracious entertaining. The striking Saratoga model with stove has one brewing and one warming element. Equipped with one unit and one decanter. Can be used on DC or AC. Size of stove 5 1/2" x 5 1/2" x 21 1/2".

BS-22 unit (with electric stove.	
List Price.....	\$40.50
List Price—Stove only....	25.75

ANY-HEET CONTROL CORD



SELF-TIMING STOVE

Electric stove of graceful design and simple operation. Keeps coffee in upper bowl just long enough for perfect flavor. Brewed coffee descends automatically. Polished chrome with white or black moldex trim.

	List Price
DSK-B—Black.....	\$4.95
DSK-1—White.....	5.50



Any-heat thermostatic temperature control keeps coffee at the desired serving temperature indefinitely. Provides choice of any heat without variation, regardless of voltage fluctuation. You simply "Dial" your heat to the correct coffee drinking temperature and it stays set. It's automatic. A hundred different heats from which to choose. A.C. only.

AHC—List Price..... \$3.95



DE LUXE STOVE

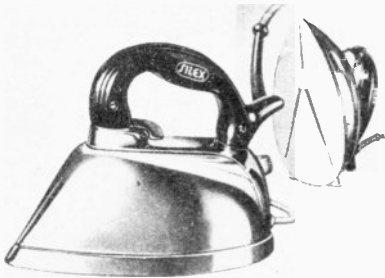
De luxe Self-timing stove. Regulates brewing period and keeps coffee in upper bowl just long enough to assure perfect flavor. Equipped with Any-heat control cord, cool carrying handles in white or black moldex.

	List Price
DSH8-B—Black.....	\$8.50
DSH8-1—White.....	9.00

SILEX

Family Accessories and COMMERCIAL UNITS

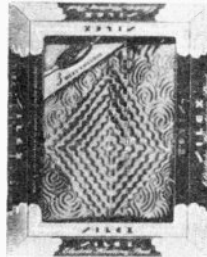
STEAM IRON



Dial set temperature control ensures safety to all fabrics. Can be used dry or with steam. Complete heel-to-tip sheath of steam protects the fabric from sticking. The 3-way grooves ensure overall steam protection.

List Price..... **\$27.25**

HEATING PAD



3 heat control heating pad: efficient and absolutely safe in operation, attractive in appearance. Packed in a really smart carton that sells itself.

List Price..... **\$8.95**

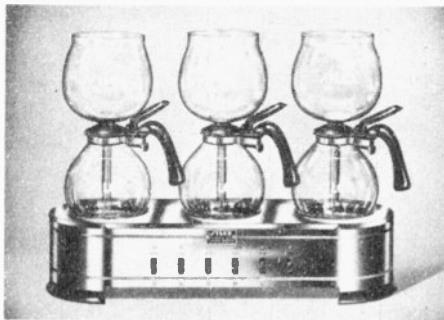
CANDLE WARMER



A new way to keep coffee hot. Use this attractive crystal and chromium to keep your coffee pot warm on the table. Uses candles of a specially prepared wax gives a clean efficient flame.

List Price..... **\$ 3.95**

SILEX COMMERCIAL UNITS



ROYAL MODELS

There is no hit-or-miss proposition to making good coffee when you use one of the Silex Royal Ranges. Available in 2, 3 or 4 unit models. All range bodies are of stainless steel, elements are high-low 660-90 watts. Each element both brewer and warmer.

List Price

RN2-R —2 unit Range.....	\$38.60
RN3-R —3 unit Range.....	52.05
RN4-R —4 unit Range.....	66.00

TERRACE MODEL

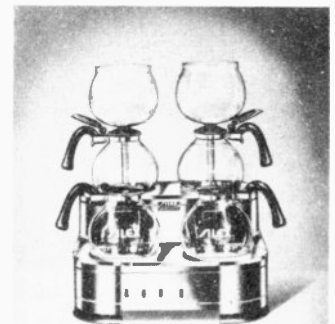
Arranged for maximum convenience. The styling of the stainless steel body allows the two lower burners to be used as serving space while coffee is being brewed on top two elements.

TE2-R—2 and 2 unit Range—List Price..... **\$95.05**

CARLTON MODEL

To speed your coffee making this model has hot water on the spot. Makes up to 200 cups an hour. Stainless steel cork. Individual switch control for each heat. Two heating elements, two warming elements. (Not illustrated)

CW4—4 unit range—List Price..... **\$509.55**



COMPLETE STOCK OF ACCESSORIES AVAILABLE FROM C.E.S.



SEMI-WIDE BOWL

All glass 12 cup
LX-12

List Price **\$2.60**



NARROW BOWL

All glass 12 cup
LC-12

List Price **\$2.60**



SEMI-WIDE UPPER BOWL

All glass 2 cup
with plug
UC-12W/PXT

List Price **\$3.60**



NARROW UPPER BOWL

All glass 12 cup
with plug
UC-12W/PSP

List Price **\$3.45**



FILTER

Lox-in-glass

C.L.O.X.
List Price **\$0.75**



STRAINERS

Porcelain only

List Price

PT \$0.35

Cloth strainer

SR-1000 \$29.95

SR-20 .70

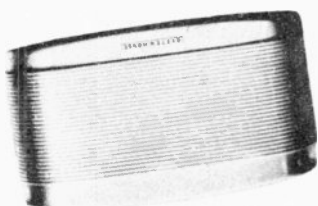
SR-8 .35

DEALERS—WRITE FOR CONFIDENTIAL NET PRICES

RITTENHOUSE

THE CHIMES
WITH THE *Golden*
TONE

"Who is there that in logical words
can express the effect music has on us?"...
—Carlyle.

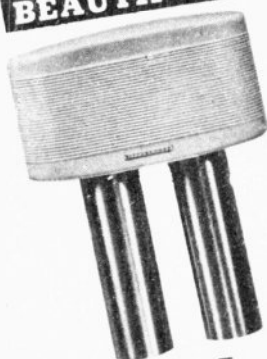


UTILITY

Enclosed Bar Chime. White or ivory
enameled steel housing. Two notes
front door, single note rear door.

Model 220—List Price \$5.95

BEAUTIFUL DESIGNS



DORSET

Bar Type Model. Ivory plastic housing.
Two notes front door, single note rear
door.

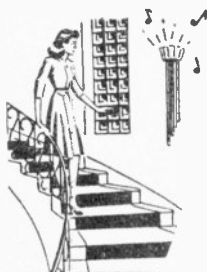
Model 312—List Price \$12.75



BUILDER

Long Tube Model. Steel housing,
ivory finish. Two long 1" dia-
meter seamless brass tubes.
Two notes front door, single note
rear door.

Model 375—List Price.. \$12.25



SHERATON

Long Tube Model. Ivory
plastic housing. Two long
natural lacquered brass tubes
1 1/8" diameter. Two notes
front door, single note rear
door.

Model 316—List Price \$17.95

SHEFFIELD

Long Tube Model. Plastic
housing. Hall chime. Four
note Westminster chime se-
quence. Special transformer
included.

Model 410—List Price \$47.50

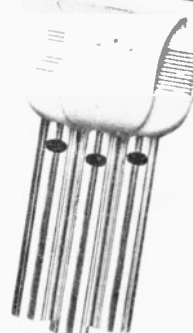


BROOKDALE

Short Tube Model—finish white and
chrome or ivory and brass. Two notes
front door, single note rear door.

Model 250—List Price \$9.75

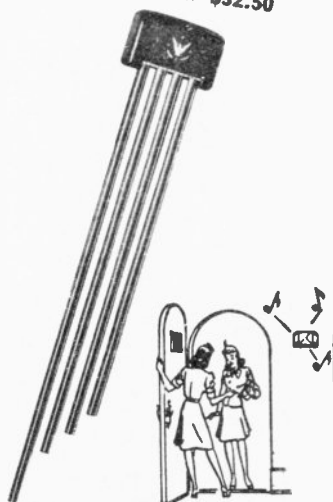
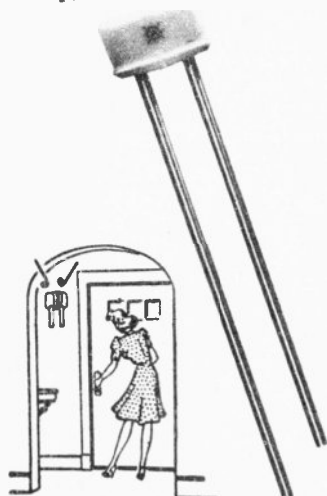
POPULAR PRICES



BEVERLY

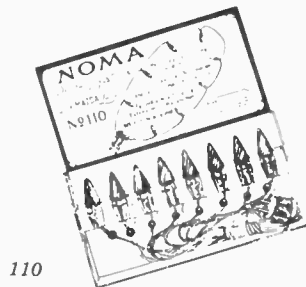
Multi-Note Short Tube Model. Ivory
plastic housing. Three brushed brass
tubes. Three or four note sequence.
Additional note rear door. Special
transformer included.

Model 520—List Price \$32.50



CONFIDENTIAL DEALERS' DISCOUNT GLADLY SENT ON REQUEST

Christmas



110



105



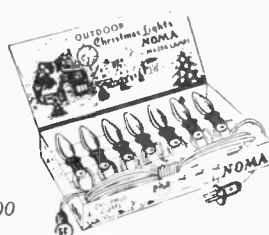
150M



509



3415



3000

INDOOR SETS

8 light series loop type outfit. Tripling connection with outlet for additional sets. Adjustable Berry Bead fastening. 15 volt C-6 cone shaped lamps in assorted colors.

No. 110. List Price..... \$1.50

8 light series loop type with combination triplug, add-on connectors adjustable Berry Beads. With additional wire and add-on connector this set presents better light distribution than No. 110.

No. 111. List Price..... \$1.90

FAIRY TALE SET

8 light series set of same construction as 110, with eight assorted Fairy-Tale shades attractive packing make this quick seller.

No. 105. List Price..... \$2.50

8 light series straight line outfit. Combination triplug, add-on connector, adjustable Berry Beads. Greater spread and utility than loop type set.

No. 100. List Price..... \$2.25

MIROSTAR SET

8 light series set of same construction as 110, but with Mirostar reflectors. Attractive counter display that sells on sight.

No. 150M. List Price..... \$2.65

BUBBLELITE SETS MIRACLE LIGHT IN MOTION

Nine Bubblelite series set. Greatest innovation in Christmas tree lighting since the electric replaced the candle. Nine shimmering tubes of colorfully lighted glass. Each light 5" high. Special metal clip for easy fastening to tree branch. Add on connector. Packed in attractive counter display.

No. 509. List Price..... \$4.50

Replace your old series lamps with crystal clear gaily coloured bubbling candles. 20 to a display package.

No. 520. List Price \$0.40 ea.

INDOOR MULTIPLE SETS

Indoor sets with patented Berry Bead fasteners which hold lamps upright and secure to branch of tree. Each lamp burns independently. Add on connector.

List Price

3010—7 lamp..... \$2.50

3415—15 lamp..... 5.00

OUTDOOR MULTIPLE SET

Multiple type outfit with weatherproof wire for outdoor use. Adjustable Berry Beads. Add or connect at extreme end of set. Assorted colored lamps.

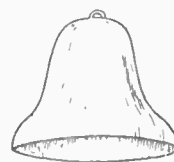
List Price

3000 7 lamp..... \$ 3.70

3015 15 lamp..... 7.40

3125 25 lamp..... 12.40

NOMA LIGHTS &



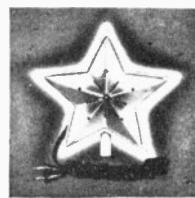
CELLOPHANE BELLS

In keeping with demand for something different in Christmas lighters. Can be used with lamp sets. 10 to a box.

No.	Size	List Price
73	3"	.15 Pkg. of 2
75	5"	.10 ea.
77	7"	.25 ea.

GLOLITE LUMINOUS STAR

New all metal star. A soft glowing aura of light radiates from the star. Red plastic beads give colorful touch.



List Price
No. 235 \$1.50

OUTDOOR STAR



Sockets are set into solid steel frames making stars practically indestructible. Completely weather-proof White C-9½ lamps, or other assorted colors.

No.	No. of Lights	Diam. of Star	List Price
10	10	16"	\$ 6.50
20	20	22"	13.00
30	30	30"	19.50
40	40	40"	24.00

5 LIGHT MULTIPLE STAR

9½" in diameter. Weatherproof. Always flowing water with the message for Christmas.

No. 123 List Price..... \$3.00

CHRISTMAS TREE BASES



An attractive base for any tree. Ruggedly constructed. 8 C-6 lamps. The well holds two pints of water which keeps tree fresh. Three screws to keep tree firm.

No. 176. List Price..... \$6.00



EASY TRIM CLIPS

In sets of 8 clips to a card. Fits all Noma sockets and sets.

No. 2065 8 to a card.
List Price \$0.25 per set

DEALERS—WRITE FOR CONFIDENTIAL NET PRICES

NOMA

NOVELTIES



TREE TOP ANGEL

She's New! She's Beautiful!

A great innovation in Christmas lighting decorations. The winsome expression of this figure surmounted by a halo of light give angelic charm. In **PINK** or **BLUE** with **GOLDEN WINGS** and **WHITE** with **SILVER WINGS**. With C-7½ lamp, extension cord and open outlet.

No.	List Price
58 Illuminated Angel.....	\$2.00
55 Non-Illuminated.....	.95



5025



5041

ILLUMINATED BELL CLUSTER

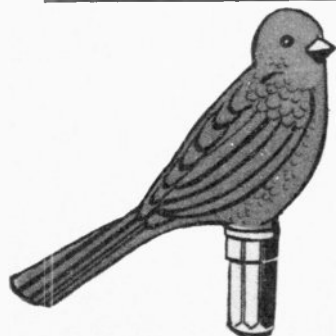
Heart warming light shining through pressed cellophane bells, producing unsurpassable beauty. Surmounted by a 10" diameter cellophane bow. With 6 ft. lead and tripling C-7½.

No.	Diam.	No. of Bells	List Price
5025R	5"	2	\$3.25
5035	5"	3	3.80
5055	5"	5	5.00

ILLUMINATED BELL CLUSTERS

A 4" cellophane bell mounted on a 15" metallic bow, decorated by a silver Holly Spray. C-7½ lamp, 6 ft. lead and tripling.

No.	List Price
5014—Red or Blue.....	\$2.30



Sensations

MIROSTAR REFLECTORS

A miracle of mirrored multicolored lights. 1948 Christmas trees will be bright with mirostars. 8 to a box. 18 boxes to counter display carton.

No. 2007.	List Price.....	\$0.50
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2007

HALO DISCS

Halo discs the latest innovation to increase the enchantment of Christmas lighting. Smooth round pieces, of transparent composition, that fit over lamps.

No.	List Price
2050 25 per box Indoor	\$0.10 ea.
2055 10 per box Outdoor	.30 ea.

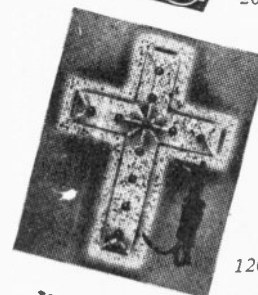


2050

ILLUMINATED CROSS

All metal cross 10" x 7" equipped with C-7½ lamp, extension cord. Light shines through plastic reads with beautiful effect.

No. 1201.	List Price.....	\$2.00
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1201

ALL PURPOSE COUNTER TESTER

Indispensable to every dealer of electrical merchandise. Sturdily built, it can be used on counter, or hung flat on wall. Test the following:

1. Lamps of all voltages with miniature base, candelabra base, intermediate base.
2. Automobile lamps of all types.
3. Flashlight lamps.
4. Fuse plugs.
5. Christmas tree sets and other electrical devices.

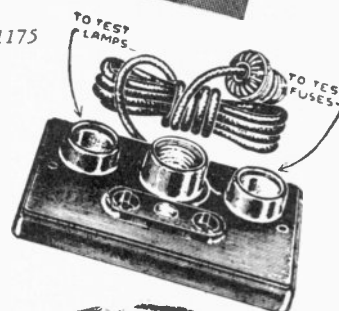
No. 1175.	Your Cost.....	\$4.50
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PIGTAIL SOCKETS

For special decorative work and repairs.

No.	length; min base	List Price
900.	20 cotton wire.....	\$0.15 Pkg. of 2
910.	3" length; cand base, 18 lacquered wire....	.14 ea.
915.	3" length; Inter base, 20 cotton wire.....	.14 ea.

1175



FAIRY TALE SHADES

Translucent bell shades depicting different characters from Fairy Tale pages.

No. 68	24 per box.....	\$0.25 Pkg. of 2
---------------	------------------------	-------------------------



NOMA BIRD LAMPS

This Season's News!

Made of colored plastic, these new fancy lamps are used in every type of Christmas lighting sets. Light in weight, and almost unbreakable. Packed in boxes of 10.

No. 420.	List Price.....	\$0.30 ea.
-----------------	------------------------	-------------------

Mazda C-6, C-7½, C-9½ lamps packed in display boxes in assorted colours.

C-6	15v min base.....	List Price
C-7½	120v cand base.....	\$0.08
C-9½	120v inter base.....	.15



68

Ask for free NOMA catalogue

Seasonal NOMA Decorations

GLOLITE TREE



No. 168

Equipped with 15 watt lamp the light penetrates solid glass tubes which glow like colored candles. 18" high.

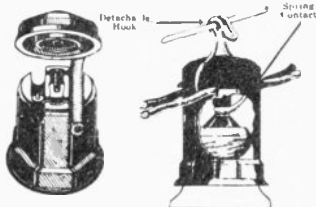
No. 168. List Price..... \$7.50

HALO TREE

Tree equipped with 9 C-6 lamps and Noma Halos. Effect must be seen to be appreciated.

No.	Size	List Price
No. 160	18 inch.....	\$ 9.50
No. 165	26 inch.....	20.00

RED-CAP SOCKETS



No. 400

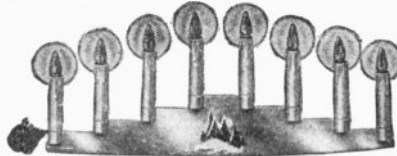
No. 401

Each socket is supplied with detachable hook for hanging socket from tree or guy wire. Just push wires in grooves and screw on cap—that's all. Pin type sockets no splicing. Completely waterproof.

No.	Base	Quantity Per Box	List Price
400	Medium	10	\$0.35 ea.
401	Intermediate	10	.23 ea.

**ORDER EARLY
BE ASSURED OF
DELIVERY**

NEW CANDALIER

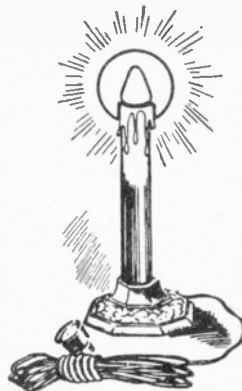


No. 210

8 light multiple candalier. Beautiful display for window or table. Size 21" wide, 6 ft. cord, and 2 way add on connector.

No.	List Price
199 Ivory candles and base.....	\$3.00
200 with drip candles.....	4.50
210 with drip candles and halos.....	5.25

SINGLE CANDLE

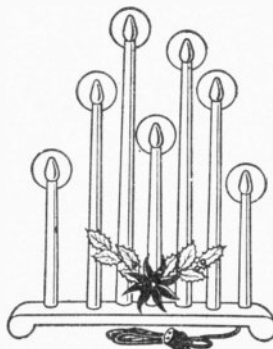


No. 1951H

Single candles equipped with a white C-9 1/2 lamp 6 ft. of silk cord and a 2 way plug.

No.	Size	List Price
193H	8" Red and Silver with Halo.....	\$1.50
195H	8" Ivory with halo.....	1.50
196H	11" Ivory with halo and base.....	2.00

CANDLES AND CANDALIERS



No. 190

Candles are distinctive, original and traditional. A combination of sheer beauty of design, incomparable lighting effects and dignity, never before attained in any Christmas decoration.

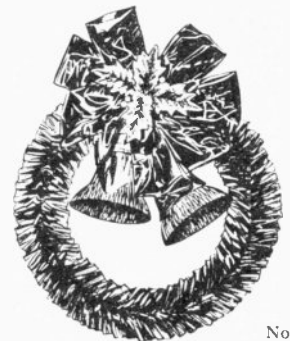
No.	Lights	Width	Height	List Price
190	3	12"	21"	\$4.75
194	7	20"	24"	8.50

CELLOPHANE WREATHS

Cellophane brings Christmas wreaths up-to-date. Equipped with red and silver drip candle. C-7 1/2 red lamp, tripling and extension cord.

No.	Diam.	Cord	List Price
1110	10"	4 ft.	\$1.10
1115	11"	6 ft.	1.50

CELLOPHANE BELL WREATHS



No. 1720

Cellophane wreaths with bells, bow and silver spray. With C-7 1/2 lamp. 6 ft. lead and tripling.

No.	Wreath	Size	Bells	No. of Bells	List Price
1710	11"	4"	1		\$2.00
1720	11"	4"	2		2.70

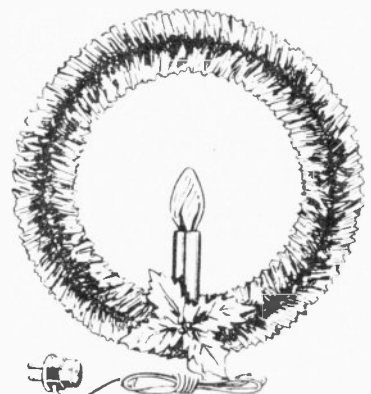
CHRISTMAS WREATHS



No. 1685E

Nothing expresses the friendly spirit of Christmas as well as an illuminated wreath. They fill a constant demand as decorations for windows or as a symbol of welcome on the door. 6 ft. cord and plug. In **Green, Silver or Red.**

No.	No. of Candles	Size of wreath	Type of Lamp	List Price
1500	1	15"	C-9 1/2	\$2.25
1625	2	16"	C-7 1/2	3.50
1650	3	20"	C-6	4.50
1685 E-Eng.	Merry Xmas	20"	C-6	6.00
1685 F-Fr.	Joyeux Noël	20"	C-6	6.00



COMPLETE COLORED NOMA CATALOGUE SENT ON REQUEST



Westinghouse Lamps



WATTS BULB FINISH BASE STD. PKG. QTY. LIST PRICE

GENERAL LIGHTING SERVICE



10	S-14	Clear or Inside Frosted	Medium	120	\$0.20
15	A-15	Inside Frosted	Medium	120	.15
25	A-19	Inside Frosted	Medium	120	.15
40	A-19	Inside Frosted	Medium	120	.15
60	A-21	Inside Frosted	Medium	120	.15
100	A-23	Clear	Medium	120	.30
100	A-23	Inside Frosted	Medium	120	.28
150	PS-25	Clear	Medium	60	.38
150	PS-25	Inside Frosted	Medium	60	.38
200	PS-30	Clear	Medium	60	.51
200	PS-30	Inside Frosted	Medium	60	.51
300	PS-30	Clear	Medium	24	.75
300	PS-30	Inside Frosted	Medium	24	.84
300	PS-35	Clear	Mogul	24	.75
300	PS-35	Inside Frosted	Mogul	24	.84
500	PS-40	Clear	Mogul	12	1.33
500	PS-40	Inside Frosted	Mogul	12	1.40

750 HOURS

100	A-23	Inside Frosted	Medium	120	\$0.20
150	PS-25	Clear	Medium	60	.28
150	PS-25	Inside Frosted	Medium	60	.28
200	PS-30	Clear	Medium	60	.38
200	PS-30	Inside Frosted	Medium	60	.38
300	PS-30	Clear	Medium	24	.56
300	PS-30	Inside Frosted	Medium	24	.63

THREE-LITE LAMPS



MOGUL 3 CONTACT

40	A-23	Inside Frosted	3-Contact Medium	60	\$0.50
100	PS-25	Inside Frosted	3-Cont. Mog.	60	.55
150	G-30	Inside Frosted	3-Cont. Mog.	24	.75

SIGN AND COLORED LAMPS



CANDELABRA



INTERMEDIATE MEDIUM

6	S-6	Clear	Cand.	100	\$0.20
7	C-7	Clear	Cand.	100	.15
7	C-7	Clear	Cand.	100	.15
7 1/2	S-11	Diamond Outside Colored (1)	Medium	120	.13
10	S-11	Clear	Inter.	120	.21
10	S-14	Clear or I.F.	Medium	120	.20
10	S-14	Inside Colored	Medium	120	.27
15	F-10	Clear or Frosted	Cand.	60	.28
15	F-10	Outside Colored White	Cand.	60	.28
25	A-19	Inside Colored	Medium	120	.27
25	A-19	Outside Colored	Medium	120	.27
25	F-15	Outside Colored	Medium	120	.22
40	A-21	Inside Colored	Medium	120	.30

- (1) White, Red, Blue, Green.
- (2) Red, Blue, Green, Yellow, Amber-Orange, Flametint, White.
- (3) Amber-Orange, Flametint, Ivory, Old Rose, White.
- (4) Red, Blue, Green, Yellow, Amber-Orange, Flametint, Ivory, Old Rose.

VIBRATION AND ROUGH SERVICE

50	A-19	Cl. Milltype	Medium	120	\$0.30
50	A-19	I.F. (Rough Service)	Medium	120	.35
100	A-23	I.F. (Rough Service)	Medium	120	.49

DRYING AND HEAT LAMPS

250	R-40	Light I.F. Reflector	Med. Skt.	12	\$1.75
250	R-40	Light I.F. Reflector	Med.	12	1.55
250	R-40	Reflector Infrared Heat Ray Red Bulb	Med.	12	3.95

TUBULAR LAMPS



25	T-6 1/2	Clear (5 1/2 in. long)	Inter.	60	\$0.50
25	T-10	Clear (5 1/2 in. long)	Medium	60	.35
40	T-8	Clear (11 1/2 in. long)	Medium	24	1.20

WATTS BULB FINISH BASE STD. PKG. QTY. LIST PRICE

FLUORESCENT LAMPS



MEDIUM BIPIN



MOGUL BIPIN

14	T-12	(2)	Med. Bipin	24	\$1.00
15	T-8	(2)	Med. Bipin	24	.80
15	T-12	(2)	Med. Bipin	24	1.00
20	T-12	(2)	Med. Bipin	24	1.00
30	T-8	(2)	Med. Bipin	24	1.00
40	T-12	(3)	Med. Bipin	24	1.30
100	T-17		Mog. Bipin	12	3.90

Daylight, 4500° and 3500° White

- (2) Soft White, 15c List Additional. Blue, green, pink, 25c List Additional. Gold, red, 40c List Additional.
 (3) Soft White, 25c List Additional. Blue, green, pink, 40c List Additional. Gold, red, 55c List Additional.

REFLECTOR LAMPS



MEDIUM

25	T-10	I.F. with Reflector	Med. with spring contact	60	\$0.80
40	T-10	I.F. with Reflector	Med. with spring contact	60	.80
150	R-40	I.F. Reflector Spot	Medium	12	1.35
150	R-40	I.F. Reflector Flood	Medium	12	1.35
150	PAR-38	Projector Spot*†	Medium Skt	12	1.95
150	PAR-38	Projector Flood*†	Medium Skt	12	1.95
200	R-40	I.F. Reflector Spot*	Medium	12	\$1.65
200	R-40	I.F. Reflector Flood*	Medium	12	1.65
300	R-40	I.F. Reflector Spot*	Medium	12	2.00
300	R-40	I.F. Reflector Flood*	Medium	12	2.00

*Should be used in porcelain sockets only.

† Hard glass lamps—may be used outdoors.

COUNTRY HOME LAMPS



(30 and 32 volts)

15	A-17	Inside Frosted	Medium		\$0.27
25	A-19	Inside Frosted	Medium		.28
50	A-21	Inside Frosted	Medium		.28
100	A-23	Inside Frosted	Medium		.46

PROJECTION AND STEREOPTICON

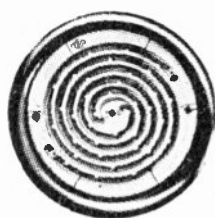
50	T8	Clear—CC-13 Fil	S.C. Bay	24	\$1.15
50	T8	Clear—CC-13 Fil	D.C. Bay	24	1.25
100	T8	Clear—CC-2V Fil	S.C. Bay	24	.75
100	T8 1/2	Clear—CC-13 Fil	Med. Pref.	24	2.65
100	T8 1/2	Clear—CC-13 Fil	Med. Screw	24	2.65
150	T8	Clear—2CC-8 Fil	S.C. Bay	24	1.80
150	T8	Clear—2CC-8 Fil	D.C. Bay	24	1.95
200	T10	Clear—CC-13 Fil	Med.	24	2.95
200	T10	Clear—CC-13 Fil	Med. Pref.	24	2.95
250	T14	Clear—C-13 Fil	Med.	24	2.80
250	T14	Clear—C-13 Fil	Med. Pref.	24	2.80
300*	T10†	Clear—2CC-8 Fil	Med.	24	3.75
300*	T10†	Clear—2CC-8 Fil	Med. Pref.	24	3.75
400*	T10†	Clear—C-13 D Fil	Med.	24	4.90
400*	T10†	Clear—C-13 D Fil	Med. Pref.	24	4.90
500*	T10†	Clear—C-13 D Fil	Med.	24	4.90
500	T20	Clear—C-13 Fil	Med. Pref.	24	4.90
500	T20	Clear—C-13 Fil	Med. Mog.	6	3.05
750*	T12†	Clear	Med. Mog.	6	3.20
900	T20	Clear	Med. Pref.	24	5.75
1000*	T12†	Clear	Med. Mog.	6	8.75
1000*	T20	Clear—C-13 D Fil	Med. Pref.	24	8.75
1000*	T20	Clear—C-13 Fil	Med. Mog.	6	6.30
1000*	T20	Clear—C-13 Fil	Med. Mog.	6	6.65
			Med. Pref.	6	6.65

* This lamp should be used only in equipment that provides adequate forced cooling.

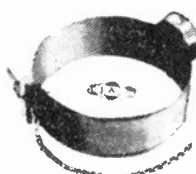
† Bulb has opaque coating on end.

HANDY ELECTRICAL ACCESSORIES

TOPHET REPLACEMENT ELEMENTS



GUARANTEED LONG LIFE
For
ELECTRIC RANGES
RANGETTES — HOTPLATES
TOASTERS — IRONS — HEATERS



No. 301

No. 811 ELEMENTS COMPLETE LESS ADAPTER

Cat. No.	Watts	Grade "A" Wire — 115 Volts			List Price	Your Cost Each
		Range Opening	Porc. Size			
800	660	6" — 7"	5 3/4"	1 Heat	\$1.00	\$0.67
801	660	6" — 7"	5 3/4"	3 Heat	1.10	.73
803	880	7" — 8"	6 1/2"	3 Heat	1.55	1.03
811	1320	8" — 9"	7 3/4"	3 Heat	2.05	1.37
814	1700	8" — 9"	7 3/4"	3 Heat	2.65	1.77
815	1800	9" — 10"	8 3/4"	3 Heat	3.05	2.03
817	1750	8 3/4" — 9 3/4"	7 1/4"	3 Heat	2.80	1.87

HOTPLATE ELEMENTS COMPLETE LESS ADAPTER

Cat. No.	Watts	Grade "C" Wire — 115 Volts			List Price	Your Cost Each
		Porc. Size				
263	660	5 3/4"	1 Heat	\$0.70	\$0.47	
264	660	5 3/4"	3 Heat	.90	.60	
265	880	7 3/4"	3 Heat	1.25	.83	
267	1320	7 3/4"	3 Heat	1.50	1.00	

CHROME PLATED ADAPTERS

Cat. No.	Porc. Size	Range Opening	List Price	Your Cost Each
301	5 3/4"	6" — 7"	\$0.90	\$0.60
302	6 1/2"	7" — 8"	.90	.60
303	7 3/4"	8" — 9"	.90	.60
304	8 1/4"	8 3/4" — 9 3/4"	.90	.60
305	8 3/4"	9" — 10"	.90	.60



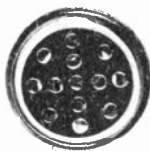
No. 202



No. 200



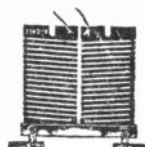
E. A. C.
No. 220



No. 226



E. A. C.
No. 222



No. 210

RANGE COILS—Grade "A" Wire Only—115 volts

Cat. No.	Watts		Coils Per Set	List Price	Your Cost Each
400	660	1 Heat	1	\$0.60	\$0.40
401	660	3 Heat	2	.65	.43
402	880	3 Heat	2	.75	.50
405	1320	3 Heat	2	1.05	.70
407	1700	3 Heat	2	1.45	.97
408	1800	3 Heat	2	1.65	1.10
409	1750	3 Heat	2	1.60	1.07

HOTPLATE COILS Grade "C" Wire 115 Volts

Cat. No.	Watts	Coils Per Set	List Price	Your Cost Each
248	660	1	\$0.35	\$0.23
244	660	2	.45	.30
245	880	2	.55	.37
247	1320	2	.65	.43

REPLACEMENT ELEMENTS—115 Volts

Cat. No.	Description	List Price	Your Cost Each
200	Fitsall Mica Iron Element, 550 W.	\$0.50	\$0.35
202	Fitsall Iron Element Copper Clad, 550 W.	1.25	.88
210	Replacement Toaster Element, 550 W.	.70	.49
211	Toaster Coil Unstretched, 550 W.	.35	.25
213	Replacement Toaster Element, 550 W.	1.25	.88
220	Cone Type Element, 660 W.	.60	.42
222	Majestic Type Element, 660 W.	.60	.42
223	Screw-in Type Brooder Element, 50-75-100-125w. 115v.	1.25	.88
226	Replacement Element for Cigarette Lighter 100w. 115v.	.75	.53

TOPHET HOT PLATE



Genuine Nickel Chrome Heating Element. 660 watts, 115 volts. Best grade refractory porcelain plate. Finished in baked enamel. Colours, Buff and Red only.

No. HP263—List Price..... \$3.95
Your Cost..... 2.73

BURNETT HOT PLATE



A 660 watt 110-130 volt, chromium plated, hot plate complete with 6 ft. cord. 7 1/4" diameter, 3" high.

List Price..... \$3.45
Your Cost..... 2.45

MARCONI



A New

**AUTOMATIC
ELECTRIC IRON
THAT SETS
STANDARDS IN**



- PERFORMANCE
- CONVENIENCE
- SERVICE

The only full size electric iron with the folding handle. Temperature control prevents burning or scorching of the fabrics. The iron weighs only 3 1/2 lbs. and measures 1 1/2 in. high when folded flat.

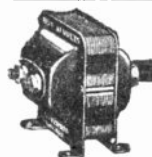
List Price..... \$15.95
Your Cost..... 10.64

JFD FOREIGN ADAPTER



Converts American Male plug to Continental and British Male plug—quickly and easily! Converts foreign receptacle to standard American receptacle.

No. 2-449—With Continental prongs..... \$0.30
2-450—With British prongs..... .30



**BELL RINGING
TRANSFORMER**
For General Use

110 V., 60-cycle to 10 volts D.C.
No. 420—Your Cost..... \$1.50

Dependable HALEBRO Products



BAKELITE ATTACHMENT CAP Parallel Blades			
Unit Carton	50		
	List Price	Your Cost	
No. 821.....	\$0.10	\$0.07	



BAKELITE HANDLE CAP Parallel Blades			
Unit Carton	20		
	List Price	Your Cost	
No. 825.....	\$0.12	\$0.09	



RUBBER STANDARD ATTACHMENT PLUG HANDLE CAP Parallel Blades			
Unit Carton	25		
	List Price	Your Cost	
No. 12.....	\$0.16	\$0.12	



BAKELITE ATTACHMENT CAP HEAVY DUTY Parallel Blades			
Unit Carton	25		
	List Price	Your Cost	
No. 826.....	\$0.11	\$0.08	



BAKELITE ATTACHMENT PLUG Base Only			
Unit Carton	50		
	List Price	Your Cost	
No. 820B.....	\$0.10	\$0.07	



RUBBER STANDARD ATTACHMENT PLUG CAP Parallel Blades			
Unit Carton	50		
	List Price	Your Cost	
No. 10.....	\$0.11	\$0.08	



BAKELITE SOCKET BUSHINGS			
No. Size	Unit Carton	List Price	Your Cost
890 1/8"	1000.....	\$0.02	\$0.01
891 3/8"	50.....	.05	.03



HALEBRO FUSE PLUGS			
No. H10—10 ampere			
No. H15—15 ampere			
No. H20—20 ampere			
No. H25—25 ampere			
No. H30—30 ampere			
Unit Carton	50		
List Price.....		\$0.08	
Your Cost.....		.06	



BAKELITE PENDANT COVER			
No. Size	List Price	Your Cost	
881 4"	\$0.22	\$0.16	



APPLIANCE SWITCH Feed through type Standard package 50			
	List Price	Your Cost	
No. 7050.....	\$0.84	\$0.62	

BAKELITE STANDARD APPLIANCE PLUG

Unit Carton	25		
	List Price	Your Cost	
No. 810.....	\$0.16	\$0.12	



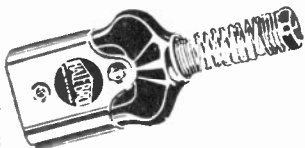
BAKELITE STANDARD APPLIANCE PLUG With Pull Handle

Unit Carton	25		
	List Price	Your Cost	
No. 810-H.....	\$0.18	\$0.13	



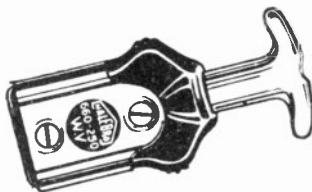
BAKELITE STANDARD APPLIANCE PLUG Armoured

Unit Carton	25		
	List Price	Your Cost	
No. 105.....	\$0.18	\$0.13	



BAKELITE STANDARD APPLIANCE PLUG Armoured With Pull Handle

Unit Carton	25		
	List Price	Your Cost	
No. 105-H.....	\$0.20	\$0.15	



BAKELITE STANDARD SWITCH APPLIANCE PLUG

Unit Carton	10		
	List Price	Your Cost	
No. 812.....	\$0.36	\$0.27	



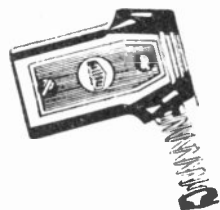
BAKELITE CURRENT TAP

Unit Carton	10		
	List Price	Your Cost	
No. 817.....	\$0.23	\$0.17	



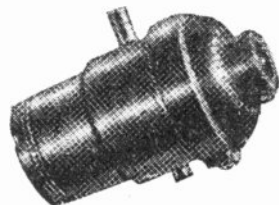
BAKELITE STANDARD APPLIANCE PLUG Side Outlet

Unit Carton	25		
	List Price	Your Cost	
No. 808.....	\$0.16	\$0.12	



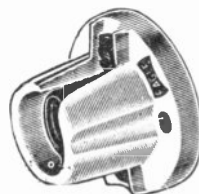
SOCKETS

Unit Carton	1		
	List Price	Your Cost	
No. 830 — Bakelite, Keyless Type	\$0.38	\$0.28	
8300 — Brass, Keyless Type	.38	.28	
835 — Bakelite, Push Thru Type..	.40	.30	
8351 — Electrolite Brass push Thru Socket.	.40	.30	



MINIATURE RECEPTACLE

Unit Carton	50		
	List Price	Your Cost	
No. 303.....	\$0.20	\$0.12	



CANDELABRA RECEPTACLE

Unit Carton	50		
	List Price	Your Cost	
No. 304.....	\$0.20	\$0.12	

Dependable HALEBRO Products



BAKELITE TWO-WAY SOCKET			
Unit Carton	10		
	List Price	Your Cost	
No. 818.....	\$0.23	\$0.17	



BAKELITE TRIPLE TAP With Spring Tite Blades			
Unit Carton	25		
	List Price	Your Cost	
No. 815.....	\$0.15	\$0.11	



BAKELITE TRIPLE OUTLETS			
Unit Carton	10		
	List Price	Your Cost	
No. 814.....	\$0.34	\$0.25	



BAKELITE ROUND CORD CONNECTOR—Single			
Unit Carton	25		
	List Price	Your Cost	
No. 845.....	\$0.22	\$0.16	



BAKELITE ROUND CORD CONNECTOR—Multiple			
Unit Carton	25		
	List Price	Your Cost	
No. 847.....	\$0.22	\$0.16	



BAKELITE ROUND PUSH BUTTON			
Unit Carton	1		
	List Price	Your Cost	
No. 800.....	\$0.19	\$0.14	



BAKELITE OBLONG PUSH BUTTON			
Unit Carton	1		
	List Price	Your Cost	
No. 805.....	\$0.28	\$0.21	



BAKELITE FLUSH TOGGLE SWITCH Single Pole			
10 amp.			
Unit Carton	10		
	List Price	Your Cost	
No. 1310.....	\$0.34	\$0.25	



FLUSH SWITCHES Porcelain base, heavy duty			
Standard package 50			
	List Price	Your Cost	
No. 941—Single pole—indicating..	\$0.44	\$0.33	
943—Three way—non-indicating..	.64	.48	



BAKELITE SURFACE TOGGLE SWITCH			
Standard package 100			
	List Price	Your Cost	
No. 921—Single pole indicating..	\$0.39	\$0.29	

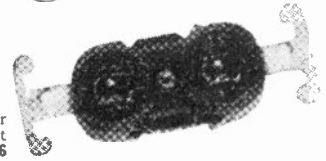
BAKELITE SINGLE RECEPTACLES With Plaster Ears

Unit Carton	25		
	List Price	Your Cost	
No. 871.....	\$0.28	\$0.21	



BAKELITE DUPLEX RECEPTACLE With Plaster Ears

Unit Carton	20		
	List Price	Your Cost	
No. 872.....	\$0.35	\$0.26	



BAKELITE WEATHERPROOF SOCKET

Unit Carton	10		
	List Price	Your Cost	
No. 854.....	\$0.28	\$0.20	



BAKELITE WEATHERPROOF SOCKET Improved

Unit Carton	10		
	List Price	Your Cost	
No. 855.....	\$0.30	\$0.22	



RUBBER WEATHERPROOF SOCKET Heavy Duty

Unit Carton	10		
	List Price	Your Cost	
No. 55.....	\$0.35	\$0.26	



"T" SLOT SURFACE RECEPTACLE Heavy glazed white porcelain Standard package 100

	List Price	Your Cost	
No. 307.....	\$0.51	\$0.38	

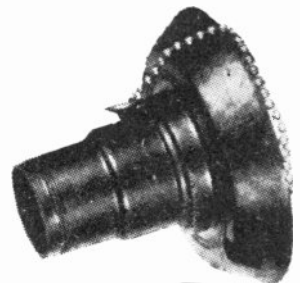


BAKELITE OUTLET BOX RECEPTACLE

	List Price	Your Cost	
No. 888.....	\$0.75	\$0.56	

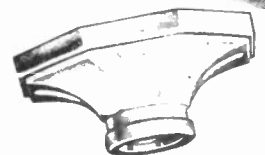
BAKELITE OUTLET BA RECEPTACLE 4 Inch

Unit Carton	1		
	List Price	Your Cost	
No. 884.....	\$0.36	\$0.27	



KEYLESS OUTLET BOX RECEPTACLES

Standard package 50			
	List Price	Your Cost	
No. 1674.....	\$0.39	\$0.29	



PORCELAIN RECEPTACLES Removable ring type

Standard package 200			
	List Price	Your Cost	
No. 990.....	\$0.19	\$0.14	



Pull Chain Type

Standard package 100			
	List Price	Your Cost	
No. 995.....	\$0.43	\$0.32	

Dependable HALEBRO Products



BAKELITE APPLIANCE CORD SETS Cotton with Silk Tracer With Pull Handle

Standard package 100

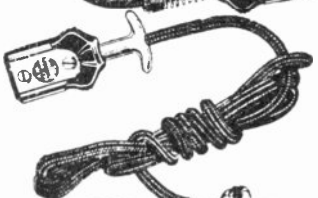
	List Price	Your Cost
No. 8600H.....	\$0.76	\$0.56



APPLIANCE CORD SETS Cotton with Silk Tracer

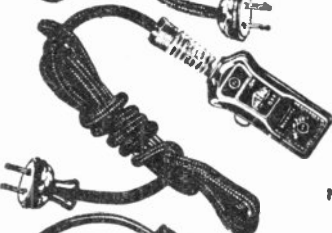
Armoured
Standard Package 100

	List Price	Your Cost
No. 65.....	\$0.72	\$0.54



BAKELITE APPLIANCE CORD SETS Cotton with Silk Tracer Armoured with Pull Handle Standard Package 100

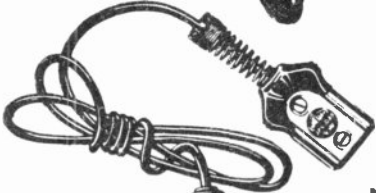
	List Price	Your Cost
No. 65-H.....	\$0.79	\$0.59



BAKELITE APPLIANCE CORD SETS With Switch

Cotton with Silk Tracer
Standard Package 100

	List Price	Your Cost
No. 708.....	\$0.98	\$0.73



BAKELITE APPLIANCE CORD SETS With No-Tangle

Rubber-Covered Heater Cord
Standard Package 50

	List Price	Your Cost
No. 676.....	\$1.11	\$0.74



BAKELITE CORD EXTENSION SET All Silk

Single Outlet
Can be supplied in any desired length.

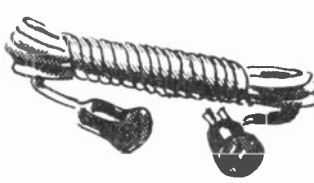
Standard Package 100

	List Price	Your Cost
No. 672 6.....	\$0.70	\$0.52



BAKELITE APPLIANCE CORD SET Rubber-Covered Heater Cord With Switch Plug Standard Package 50

	List Price	Your Cost
No. 677 6.....	\$0.99	\$0.74



NOMA EXTENSION CORDS

For indoor and outdoor use. Four different lengths. Rubber for indoor use lacquered.

No.	Your Cost
950/6 6 ft. cord.....	\$0.46
950/12 12 ft. cord.....	.66
950/25 25 ft. cord.....	1.20
950/50 50 ft. cord.....	2.40

BAKELITE CORD EXTENSION SET All Silk

Multiple Outlet
Standard Length 6 ft.

Standard Package 100

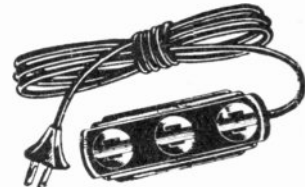
	List Price	Your Cost
No. 670/6.....	\$0.70	\$0.52



BAKELITE TABLE TAPS P.O.S.J. Cord

Standard Package 100
Three Outlets for Toaster
Percolator, Grill, etc.

	List Price	Your Cost
No. 122/6.....	\$0.94	\$0.70



BAKELITE APPLIANCE CORD SET Side Outlet

Standard Package 100

	List Price	Your Cost
No. 8608.....	\$0.76	\$0.57



BAKELITE APPLIANCE CORD SETS Cotton with Silk Tracer

Standard Package 100

	List Price	Your Cost
No. 8600.....	\$0.68	\$0.51



RUBBER HEAVY DUTY HANDLE

No.	Type	List Price	Your Cost
15	without reflector..	\$1.68	\$1.26
16	with reflector....	1.96	1.47

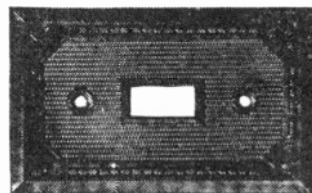


HEAVY DUTY TROUBLE LAMP

No.	Type	List Price	Your Cost
17	25 without reflector		\$2.90
18	25 with reflector		3.10



BAKELITE WALL PLATES FINISH POLISHED EDGES • SCREWS TO MATCH COLORS: Brown, Black and Ivory



No.	Description	List Price	Your Cost
P-10	Single Gang for One Push Button Switch.....	\$0.11	\$0.08
P-20	Two Gang for Two Push Button Switches.....	.22	.16
P-30	Three Gang for Three Push Button Switches.....	.32	.24
T-10	Single Gang for One Toggle Switch.....	.11	.08
T-20	Two Gang for Two Toggle Switches.....	.22	.16
T-30	Three Gang for Three Toggle Switches.....	.32	.24
R-10	Single Gang for One Single Receptacle.....	.11	.08
R-20	Single Gang for One Duplex Receptacle.....	.11	.08
DRT	Combination Duplex Rec. and Toggle.....	.22	.16

GEM & UNION FUSES — NU-TONE PUSH BUTTONS — TERMINAL PINS — GLOWLITE —

JEFFERSON — GEM Non-indicating, non-renewable enclosed fuses



Gem non-renewable fuses have stronger casings, and are designed to allow for heat diffusion. Filled with a fire-proof powder which quenches the arc. C.S.A. approved.

250 Volts					600 Volts				
Ferrule Type					600 Volts				
No.	Amps.	Length	Diam.	Your Cost	No.	Amps.	Length	Diam.	Your Cost
384-001	1	2"	1/2"	\$0.14	385-001	1	5"	3/4"	\$0.47
384-003	3				385-003	3			
384-006	6				385-006	6			
384-010	10				385-010	10			
384-015	15				385-015	15			
384-020	20	3"	3/4"	\$0.28	385-020	20	5 1/2"	1"	\$0.76
384-025	25				385-025	25			
384-030	30				385-030	30			
384-035	35				385-035	35			
384-040	40				385-040	40			
384-045	45				385-045	45			
384-050	50				385-050	50			
384-060	60				385-060	60			

JEFFERSON — Union renewable enclosed fuses and renewal links



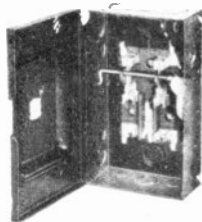
250 Volts					3 to 60 Amps.		
Fuses					Renewal Links		
No.	Amps.	Length	Diam.	Your Cost	No.	Amps.	Your Cost
380-003	3	2"	1/2"	\$0.47	381-003	3	\$0.03
380-006	6				381-006	6	
380-010	10				381-010	10	
380-015	15				381-015	15	
380-020	20				381-020	20	
380-025	25	3"	3/4"	\$0.95	381-025	25	\$0.05
380-030	30				381-030	30	
380-035	35				381-035	35	
380-040	40				381-040	40	
380-045	45				381-045	45	
380-050	50				381-050	50	
380-060	60				381-060	60	

600 Volts					3 to 60 Amps.		
Fuses					Renewal Links		
No.	Amps.	Length	Diam.	Your Cost	No.	Amps.	Your Cost
382-003	3	5"	3/4"	\$1.05	383-003	3	\$0.05
382-006	6				383-006	6	
382-010	10				383-010	10	
382-015	15				383-015	15	
382-020	20				383-020	20	
382-025	25	5 1/2"	1"	\$1.52	383-025	25	\$0.07
382-030	30				383-030	30	
382-035	35				383-035	35	
382-040	40				383-040	40	
382-045	45				383-045	45	
382-050	50				383-050	50	
382-060	60				383-060	60	

Other types and capacities available. Write for complete catalogue.

BULLDOG ALL-PURPOSE SAFETY SWITCHES

Front Operated "Push On—Push Off" Attractive Case.
"Compact Banking of Switches." Rugged Mechanism
Plug or Cartridge Fuse Holders.



Poles	Blades	Fuse Connections	Volts		Standard Enclosure	Metering Type Enclosure	
			AC	DC		No.	Your Cost
2 Solid Neutral	1	1 Plug	115	125	76211	\$1.75	115 125 \$2.73
3 Solid Neutral	2	2 Plug	230	250	76311	2.27	76311M 2.92

SERVICE ENTRANCE SWITCHES

Quick Make, Positive Break Service Entrance switches. Solid Neutral—Single Throw.

Amps.	Poles	Blades	Fuse Connection	Type	No.	Your Cost
60	3 PSN	2	2 Cont.	non-metering	76322	\$ 6.50
100	3 PSN	2	2 Cont.		76323	6.50
60	3 PSN	2	2 Cont.	metering	76322M	16.00
100	3 PSN	2	2 Cont.		76323M	16.00

PB-1—ROUND



All-luminous, ivory plastic button, fully insulated, has positive sliding contact. Tested and approved by leading Electrical laboratories. Fits 5/8" hole. Size 1/2". Counter unit displays 24 buttons.

PB-1—List Price..... \$0.50
Your Cost..... .35

PB-3—MODERN



Smart black and ivory plastic, beautiful by day, luminous by night. Chrome-plated brass cover conceals mounting screws—weather-proof, rust-proof—can't stain door frame. Beautiful, 5-color self dispensing, counter unit holds 12 buttons. Size 3" x 3/8".

PB-3—List Price..... \$1.40
Your Cost..... 1.00

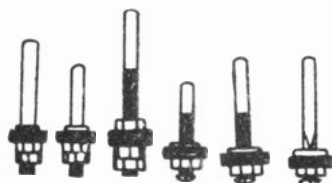
PB-4—JEWEL



Colonial style polished brass 3-in. button plate—luminous button glows at night. Coil spring gives positive sliding contact—fully insulated, weather-proof. Counter unit displays 12 buttons. Size 3" x 1 1/4".

PB-4—List Price..... \$1.40
Your Cost..... 1.00

TERMINAL PINS



No.		Your Cost
3	2" round pins	\$0.10
4	1 1/2" round pins	.10
3a	2 1/2" round pins	.12
5	1 1/2" round pins, set screw	.14
6	2" round pins, set screw	.14
7	2" flat pin, set screw	.14

THE ELECTRONIC NIGHT LIGHT



Dim glow light clearly visible at night. Plug into any AC/DC 110 Volt outlet. No switch is necessary. Leave in socket day and night.

Costs less than 1c a month for current. Use as pilot light and safety light. Crystal clear plastic housing encloses small neon lamp.

Your Cost
Glowlite..... \$0.36



FLUORESCENT STARTERS, LAMPHOLDERS AND ACCESSORIES

STARTERS FOR STANDARD TWO CONTACT BASE



FS-2



FS-20

No.	For Wattage	List Price	Your Cost Ea.
FS-2	14-15-20 W.	\$3.64	\$0.38
FS-4	13-30-40 W.	.64	.38
FS-5	6-8 Watts	1.65	.98
FS-6	100 Watts	3.25	1.95
FS-12	32 W. Circular	1.14	.68

WATCH DOG STARTERS

Standard two and 4 Contact Bases

These precision starters immediately lock dead lamps out of circuit.

FS-20	14-15-20 W.	\$3.00	\$1.80
FS-30	30 Watts.	3.25	1.95
FS-40	40 Watts.	1.55	.93
FS-100	100 W. 4 Contacts	4.55	2.73

LAMPHOLDERS AND ACCESSORIES

No.	Description	List Price	Your Cost Ea.
78X729 Rotating Type	Combination Lampholder and Starter Socket Black or White	\$0.69	\$0.41
95X180	Separate Socket for 4 contact starters. 2 contact starters can be used.	.89	.53
78X715	Miniature single Lampholders for 1.5, 4, 6, and 8 watts. Black Plastic.	.90	.54
78X723		.90	.54



78X729 Rotating Lock



78X769



78X715 and 78X723



78X915
78X914



95X180



78X354 Rotating Lock



95X266



95X292



95X708

LAMPHOLDERS AND ACCESSORIES

No.	Description	List Price	Your Cost Ea.
95X292	MANUAL STARTER Switch for 12" 32 watt circular lamps. Supplied with 4 leads 6" Long Provides control for one lamp.	\$2.15	\$1.29
95X266	MANUAL CONTROL SWITCH For any two Fluorescent Lamps up to 40 watts each six 6" wires. Has definite OFF Position.	2.24	1.34
95X708	MANUAL STARTER SWITCH Push through type. For 40 watt lamp. "ON - OFF" Button. Has definite "OFF" position for one lamp.	1.60	.96
78X354 Rotating Lock	Single Black Plastic Lamp Holder for 40 w. T12 and 20W. T12.	.32	.19
78X769	Separate Socket for FS-2, FS-4, FS-40, and FS-5. Starters Black Plastic. Variable type.	.34	.20
78X914	Combination Ejector-type Lampholder and starter socket for T-8, 15 or 30 watts Lamps. Take FS2-4.	1.55	.93
78X915		.89	.53

GENERAL ELECTRIC BALLASTS



Specifically designed to required rating, frequency, and voltage range. Prevents early end-blackening of lamp, smooths out the effect of line voltage variation, and assures longer lamp life. Quiet in operation, and occupies small area.

C.G.E. BALLASTS FOR FLUORESCENT LAMPS

FLUORESCENT LAMPS

For use only with specially designed auxiliary equipment to produce proper electrical values. Burning position—any.

Approx. Lamp Watts	Bulb	Description	Base	Std. Pkg. Qty.	List Price
14	T12 15"	Daylight, 4500 K and 3500 K White	Med. Bipin	24	\$1.00
15	T8 18"	Daylight, 4500 K and 3500 K White		24	.80
20	T12 24"	Daylight, 4500 K and 3500 K White	Med. Bipin	24	1.00
30	T8 36"	Daylight, 4500 K and 3500 K White	Med. Bipin	24	1.00
40	T12 48"	Daylight, 4500 K and 3500 K White	Med. Bipin	24	1.30
100	T17 60"	Daylight, 4500 K and 3500 K White	Mog. Bipin	12	3.20

*Soft White, 15c List Additional. Blue, Green, Pink, 25c List Additional. Gold, Red, 40c List Additional.

†Soft White, 25c List Additional. Blue, Green, Pink, 40c List Additional. Gold, Red, 55c List Additional.

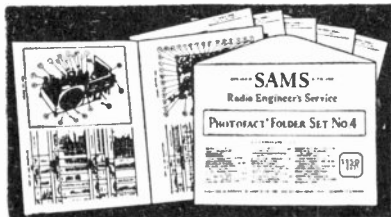
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	Your Cost
Chain only per yard.....	\$0.40
1/8" loop, male.....	.14
Canopy only.....	.33
Rod only 30".....	.63
Canopy pull chain switch.....	1.23

Lamps Watts	Circuit Voltage	Cat. No.	Your Cost
25 cy. High Power Factor Tulamp Ballasts			
(2) 40	110 125	29G983	\$11.75
(2) 20	110 125	17A1	7.20
60 cy. Low Power Factor, Single Lamp			
6	110 125	58G818	\$1.25
8	110 125	58G649	1.25
14	110 125	58G862	.90
15	110 125	58G670	.80
20	110 125	58G671	.80
30	110 125	58G674	3.35
40	110 125	58G677	2.75
60 cy. High Power Factor Single Lamp			
20	110 125	58G641	\$ 3.85
30	110 125	58G644	5.95
40	110 125	58G647	4.80
100	110 125	58G628	11.20
60 cy. Low Power Factor Multiple Lamp			
(2) 15	110 125	58G691	\$1.75
(2) 20	110 125	58G692	1.75
(3) 15	110 125	58G369	2.60
(3) 20	110 125	58G347	2.60
60 cy. High Power Factor Tulamp 3 lamp			
(2) 30	110 125	58G980	\$ 7.40
(2) 40	110 125	58G983	6.00
(3) 40	110 125	59G276	12.50
(2) 100	110 125	58G696	13.90
60 cy. High Power Factor, Tulamp Instant Start			
(2) 40	110 125	59G373	\$13.50

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SERVICE AIDS By HOWARD W. SAMS PHOTOFACT FOLIO BINDER



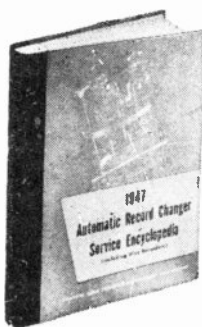
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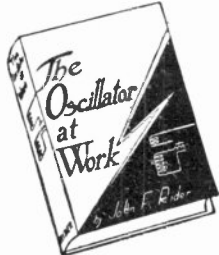
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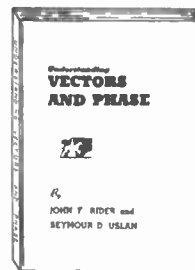
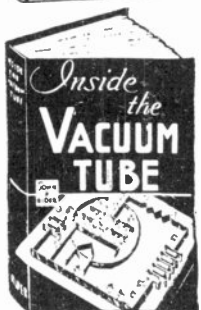
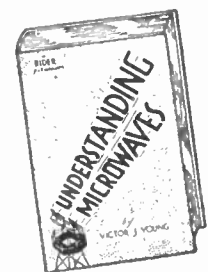
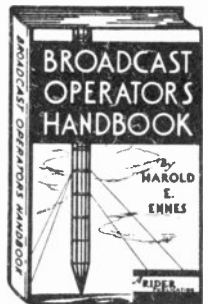
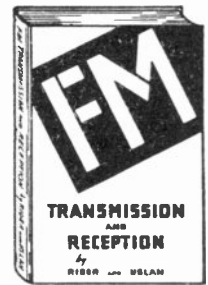
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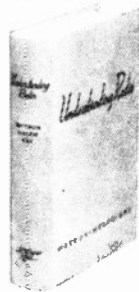


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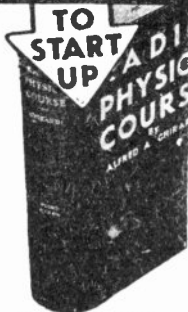
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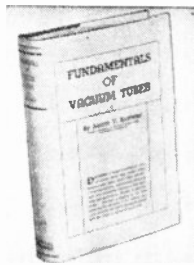


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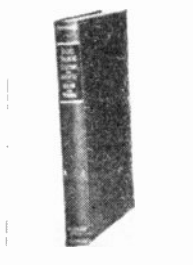


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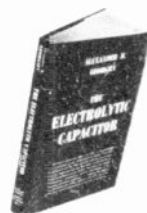


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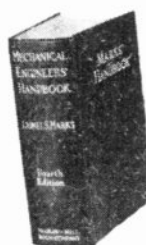
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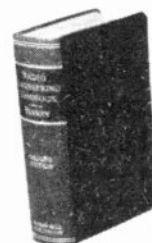
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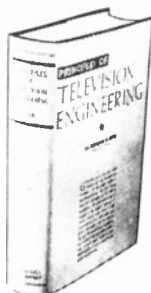
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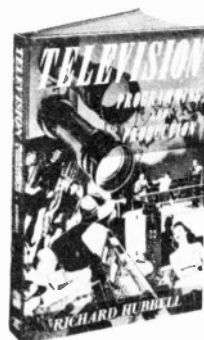
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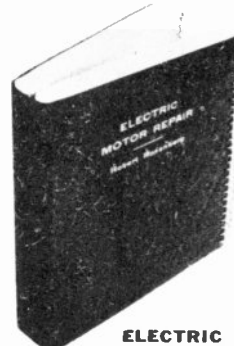


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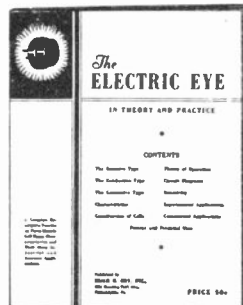
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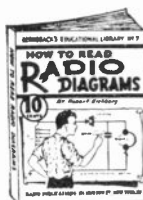
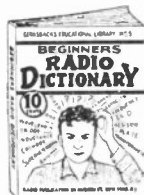
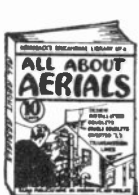
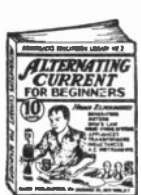
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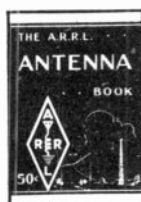
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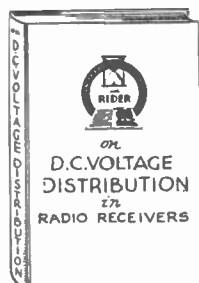


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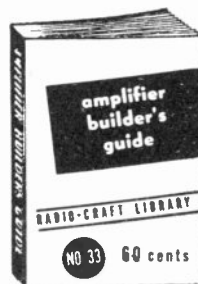
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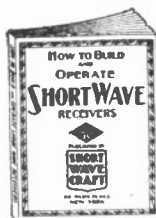
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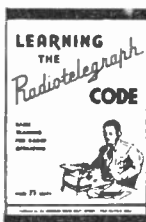
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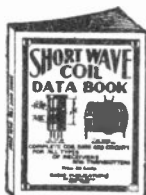
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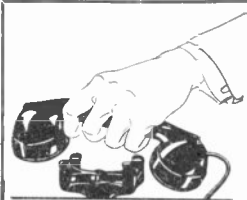
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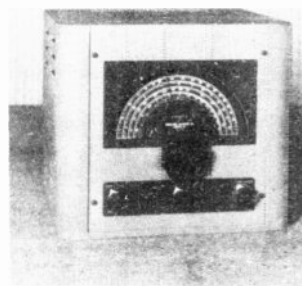
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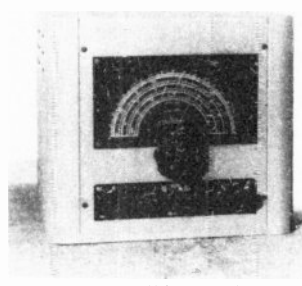


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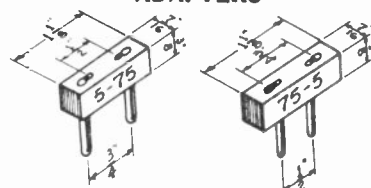
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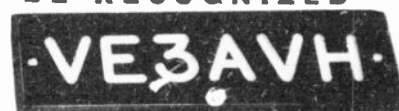
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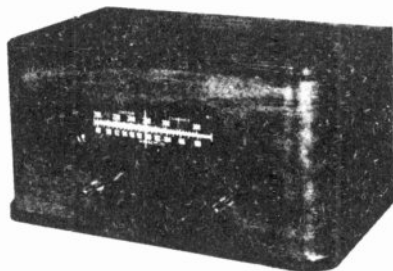
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1N34 CRYSTAL DIODE



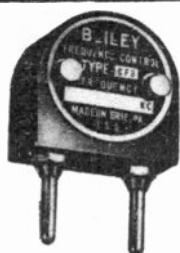
Sylvania 1N34 Germanium is useful as second detectors and D.C. restorers in television receivers and frequency discriminator in F.M. sets in frequency ranges up to several hundred megacycles. Also used as noise rectifier in superhets. Write for EC-22B bulletin for further details.

1N34—Your Cost..... **\$1.60**

1N35—Dual Unit Your Cost..... **3.60**

EVERYTHING FOR THE AMATEUR AT CANADIAN

BLILEY VALPEY CRYSTALS — TOPS FOR AMATEURS



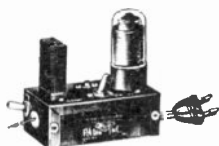
— BLILEY CRYSTALS —

Type	Base	Body Size W x D x H	Description	Use	Frequency Range	Your Cost
MC7	Standard 3/4" Spacing	1 1/8" x 2 1/32" x 2-11/64"	Gasket sealed holder. Fixed Air gap up to 1700 kc.-Pressure Air Gap up to 11 MC	Marine radio Telephone equipment	600- 11,000 kc.	Price on applica- tion
AX2	Standard 1/2" Spacing	1-1/16" x 7/16" x 1 3/8"	Accuracy ± .002% Neoprene Gasket Seal	Amateur Equipment	20 meter 40 meter 80 meter	\$5.00 3.50 3.50
SMC100	Lugs .739" Spacing	1 3/8" x 1" x 1 3/8"	Freq. Can be Adj. to 0 Beat at 25° C Dual Crystal	Aligning Radio Receivers	Dual Crystal 100-1000 kc.	\$11.25
VX2	Lug—.35" Spacing	.687" x .335" x 1.05"	Accuracy ± .02% Gasket Sealed Against Moisture	Aircraft Com- munication, Compact	3105 kc.	\$6.50
CF3	Standard 3/4" Spacing	1-3/16" x 3/4" x 1-31/32"	Accuracy ± 5KC	I.F. Filter for communication receivers	455 kc.	\$6.50
MC9	Standard 1/2" Spacing	13/16" x 7/16" x 1-37/64"	Accuracy ± .02% Gasket Sealed against moisture	Private Air- craft trans- mitter.	3105 kc.	\$7.00
CF6	Lugs .450" Spacing	15/16" x .695" x 17/32"	Accuracy ± 7KC Low Holder Capacity	Signal Filter Crystal Unit.	455 kc.	\$5.85

— VALPEY CRYSTALS —

CM5	Standard 1/2" Spacing	13/16" x 7/16" x 1 1/8"	Gasket Sealed Fixed Air Gap Vertical Mount	Marine, Police Amateur Fixed and Mobile Station	80 meter 3500-4000 kc. 40 meter 7000-7300 kc. 20 meter 14100-14300kc. 11 meter 6796.25-6863.75kc 11 meter 13592.5-13727.5kc 10 meter 28000-29700 kc 6 meter 6250-6750 kc. 6 meter 12500-13500 kc. 6 meter 25000-27000 kc 2 meter 12000-12333 kc	\$3.36 3.36 4.20 3.36 4.20 5.40 3.36 4.20 5.40 4.20
VP3	Standard 3/4" Spacing	1" d x 19/32"	Fixed Air Gap Horizontal Mount Gasket Sealed	Marine, Police Amateurs Fixed and Mobile Stations.	80 meter 3500-4000 kc. 40 meter 7000-7300 kc. 20 meter 14100-14300 kc 11 meter 6796.25-6863.75kc 11 meter 13592.5-13727.5kc 10 meter 28000-29700 kc 6 meter 6250-6750 kc. 6 meter 12500-13500 kc. 6 meter 25000-27000 kc. 2 meter 12000-12333 kc.	\$3.36 3.36 4.20 3.36 4.20 5.40 3.36 4.20 5.40 4.20

THE BUD self-powered FREQUENCY CALIBRATOR



- ★ Has 100 kilocycle crystal rich harmonics.
 - ★ Has compensating condenser to zero beat WWV.
 - ★ Has usable harmonics up to 30 megacycles.
 - ★ Has ON-OFF switch, and STANDBY switch.
- Complete with tube and crystal

Your Cost FCC-90..... \$19.95



BUD GIMIX

The Gimix is a single device with 5 uses.

- ★ Wave Meter
- ★ Monitor
- ★ Field Strength Meter
- ★ Neutralizing Indicator
- ★ Carrier Shift Indicator

Your Cost..... \$11.62

CANADIAN IS AMATEUR RADIO HEADQUARTERS



AMATEUR TUBES

OSCILLATORS • AMPLIFIERS • DOUBLERS • MODULATORS • RECTIFIERS



THE MOST POPULAR TUBES
FOR YOUR

— HAM SHACK —

POWER TUBE CHART FOR AMATEUR TRANSMITTERS

CW, FM, AND PHONE TO 30 Mc.

This table has been set up to give suitable choice of tubes for the final and for a preceding stage to drive the final. A choice of buffer, doubler or oscillator driver stage is provided. (The tubes shown have been chosen conservatively to provide ample driving power at 30 Mc even in circuits having higher than usual losses.)

Final Amplifier		Tube Types for Driving Final Amplifier (CW, FM and Phone)						Class B Modulator
Input Power CW & FM	Watts Phone	Tube Type	As Buffer		As Doubler		As Oscillator	
40	27	1-2E26	2E26 6AG7	6AK6 6F6	2E26 6AG7	6N7 6V6GT 6F6	2E26 6AG7	6F6 6V6GT
75	54	2-2E26	2E26	802	2E26	6L6	2E26	6L6
75	60	1-815	6AG7	807	6AG7	802	6AG7	802
75	60	1-807	6F6	807	6F6	807	6F6	807
150	120	2-807	2E26 6F6	802 807	2E26 6F6	6N7 802 807	2E26 6F6	6V6GT 802 807
225	150	1-812	2E26 802	807	2E26 6L6	802 807	2E26 6L6	802 807
225	150	1-811	2E26 802	807	807 809	811 814	807	814
300	240	1-8005	2E26	807	807	811	807	814
300	200	1-808	802	807	809	814		
450	300	2-812	2E26 802 807	809 812 815	807 809 811	814 815	807 814	815
450	300	2-811	2E26 2-802 807	809 812 815	2-807 809	811 814	2-807 1-814	1-828
500	375	1-4-125A/ 4D-21	2E26 802	807	2E26 6L6	802 807	2E26 6L6	802 807
500	400	1-813	807	807	802 807			
600	400	2-808	2-2E26	811	2-807		2-807	
600	480	2-8005	807 809	812 815	809 811	812 814	814	
750	500	1-8000	807 809 814	811 812	807 809	811 814	807 814	
750	500	1-810	809	812	808	814	not recommended	
1000	600	1-806	811	814	811	828		
1000	750	2-4-125A/ 4D21	2E26 802	807 815	2E26 2-6L6	802 807	2E26 2-6L6	802 807
1000	800	2-813			815		815	
1000	835	1-833A	808 809 811	812 814 8005	808 811	814 828	not recommended	
1000	1000	2-8000	2-807 2-809	811 812	808 2-809	811 814	not recommended	
1000	1000	2-810	808 2-809 811	812 814 8005	808 811	813 828	not recommended	

POWER TRIODES

806 1000 watts input* at 30 Mc.
808 300 watts input* at 30 Mc.
810 750 watts input* at 30 Mc.
811 225 watts input* at 60 Mc.
812 225 watts input* at 60 Mc.
833-A 1000 watts input* at 30 Mc.
8005 300 watts input* at 60 Mc.

BEAM POWER TUBES

2E26 33 watts input* at 150 Mc.
807 75 watts input* at 60 Mc.
813 500 watts input* at 30 Mc.
815 68 watts input* at 150 Mc.
829-B 120 watts input* at 200 Mc.

RECTIFIERS AND THYRATRON

5R4-GY Full-wave, vacuum type with choke input, 175 ma. at 750 volts.
816 Half-wave, mercury-vapor type. Two tubes in full-wave, 250 ma. up to 2380 volts.
866-A Half-wave, mercury-vapor type. Two tubes in full-wave, 500 ma. up to 3180 volts.
2050 Gas thyatron. Up to 200 ma. at 400 volts in grid-controlled full-wave circuit.
5557 Mercury-vapor thyatron. Up to 1 amp. at 1500 volts in full-wave choke-input circuit.

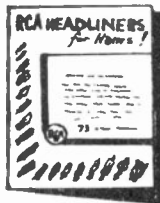
UHF AND VHF TUBES

2C43 20 watts input* at 1500 Mc.
4-125A 4D21 500 watts input* at 125 Mc.
6C24 1000 watts input* at 160 Mc.
826 130 watts input* at 250 Mc.
8025-A 50 watts input* at 500 Mc.
*Maximum value.
C. telegraphy service.

WAR ASSET TUBES

The tubes available vary from time to time, according to what stocks are on hand. Write and ask for the latest availability list.

Type	Resale Price	Type	Resale Price	Type	Resale Price
2V3G	\$0.75	EF50	\$ 0.25	837	\$2.20
2X2/879	.30	VR105/30	.25	845	2.50
3C23	1.50	VR150/30	.25	872A/872	2.20
4C29	3.00	211	3.75	878A	3.75
5AP1	2.25	304TH	9.00	884	.50
5BP1	2.25	450TL	10.00	955	.50
5CP1	2.25	8020	2.25	956	.75
4GP1	2.25	801A	1.20	CK1006	.30
6AJ7/6AC7	.30	803	6.00	E-1148	.25
6AG5	.30	805	3.75	1291/3B7	.25
6AK7/6AG7	.30	807	.50	1299A	.25
6AK6	.47	811	1.40	1616	1.50
6C4	.35	813	8.25	1619	.50
6J6	.30	814	3.00	1625	.30
12A6	.20	815	1.50	2051	.60
12DP7	3.00	826	1.10	9004	.25
12HP7	5.75	830B	3.50	9006	.25
FG27A	3.75	832	2.15		



FREE—R.C.A. HEADLINERS FOR HAMS

4 page folder for each tube service. Indispensable to amateurs building transmitting equipment. Write for your copy today!

AIR COOLED TRANSMITTING TUBE MANUAL TT3

Contains basic information on all types of transmitting tubes. Tube parts, materials, installation and application and design. Also data on many tube types, rectifier and filters. 192 pages.
Your Cost..... \$0.35



ASK FOR COMPLETE LIST AND PRICES OF
— GE — MARCONI — RCA — WESTINGHOUSE —
EXPERIMENTAL AND AMATEUR TUBES



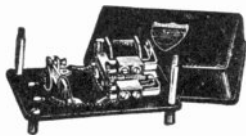
Relays

by

GUARDIAN



TIME DELAY RELAYS

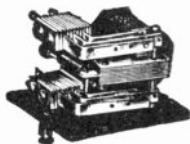


**GUARDIAN SERIES T-110
SP-ST**

Adjustable for any period between 10 to 60 seconds. 1250 watts on 110 v. 60 Cy., non-inductive A.C. Can also be used in the A.C. Primary of any inductive supply delivering up to 1 kw. S.P.S.T. Tested at 1500 v. for break-down to ground.

T-110. Your Cost..... **\$7.68**

BREAK-IN & KEYING RELAYS



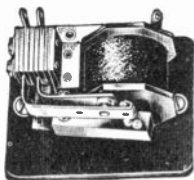
**GUARDIAN SERIES B-100
DP-DT**

Model B-100—For use in break-in circuits. D.P.D.T. type. Will provide rapid switching from receiving to transmitting. Heavy magnets and springs for clean-speed break.

Heavy silver contacts. For 110 volt A.C. 60 cycles.

B-100. Your Cost..... **\$7.68**

MODEL K-100



**GUARDIAN SERIES K100
SP-ST**

Relay will follow key or bug at highest WPM rate attainable. S.P.S.T. type. Pure silver contacts break clean. Operates from 5 to 16 v. A.C. or 1½ to 4 v. D.C. source.

K-100. Your Cost..... **\$5.63**

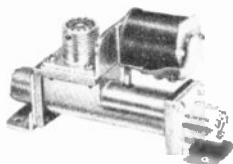
FEDERAL SELENIUM RECTIFIERS



Can be used to replace many types of rectifier tubes. Being small and light they operate at a very low temperature. They provide an excellent source of power for small radios etc.

Type	Max D.C. Output	Your Cost	List Price
402D3151	75 ma	\$0.40	\$0.75
402D3150	75 ma	1.00	1.60
403D2625	100 ma	1.25	1.90
403D2787	150 ma	1.35	2.10
403D2889	100 ma	1.80	2.95
404D2795	200 ma	1.65	2.70
402D3200	50 ma	.75	1.10
402814A	300 ma	.60	1.00

CO-AXIAL RELAY



Standardly available for 50 ohm co-axial cable for applications requiring single pole double throw operations, such as television transmission etc. Also available for use with 72 ohm co-axial cable. Either AC or DC model.

C-300—Your Cost.....

ANTENNA RELAY



Designed for low loss antenna change over operation. Also used for high frequency heat treating and short wave therapy control. Operates on 115V 60 cycle non-inductive AC.

A-300—Your Cost..... \$6.51

KEYING RELAYS



Low voltage relay controlling high voltage transmission. Relay will follow key or bug at highest WPM rate obtainable. Can handle up to 20 amps at 115 volts 60 cycles, AC.

K-320—Your Cost..... \$3.20

AMPERITE THERMOSTATIC RELAYS



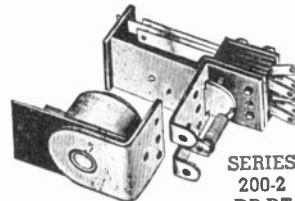
Used for many industrial purposes. These relays are actuated by a heater and can therefore be used on AC, DC or pulsating current. Being hermetically or sealed, they are not affected by altitude or moisture. Two type circuits, normally open or normally closed.

Normally Open Contacts			Normally Closed Contacts		
Delay	Seconds	6.3V	Delay	Seconds	6.3V
30		6N030	30		6C30
60		6N060	60		6C60
90		6N090			

All Types Available. Your Cost..... **\$3.20**

COMPLETE Descriptive Pamphlet on Request

INTERCHANGEABLE Contact and Coil Assemblies COILS



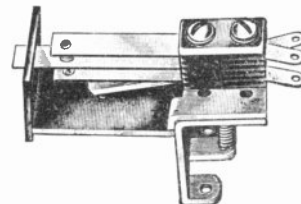
**SERIES
200-2
DP-DT**

GUARDIAN SERIES 200-6A

Either one of two contact assemblies may be used with any one of nine coils. 4 A.C. & 5 D.C. Coils are carried in stock in the following voltages:

No.	Volts	Your Cost
200-6A	6 V. A.C., 60 cy.....	\$1.60
200-12A	12 V. " 60 cy.....	1.60
200-24A	24 V. " 60 cy.....	1.60
200-115A	115 V. " 60 cy.....	2.00
200-6D	6 V. D.C.....	1.60
200-12D	12 V. ".....	1.60
200-24D	24 V. ".....	1.60
200-32D	32 V. ".....	1.60
200-110D	110 V. ".....	2.00

CONTACT ASSEMBLIES

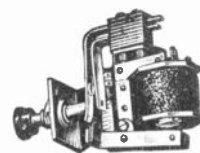


**GUARDIAN SERIES 200-1
SP-DT**

Available with either a S.P.D.T. or D.P.D.T. assembly. By wiring the contact switch terminals in different ways, you are able to get a variety of combinations with these two assemblies.

No.	Your Cost
200-1—S.P.D.T.....	\$1.31
200-2—D.P.D.T.....	2.00

OVERLOAD RELAYS



**GUARDIAN SERIES L-250
SP-ST**

Models L-250 & L-500

Rated for 1500 watts on 110 v. non-inductive A.C. and in A.C. primary of any power supply delivering up to 1 kw. S.P.S.T. Contacts lock open, cannot be reset, or points held in contact, until overload is removed.

No.	Your Cost
L-250—Attracts armature on current flow of 250 mils.....	\$7.68
L-500—Attracts armature on current flow of 500 mils.....	7.68

C.E.S. PRICES ARE CONSISTENTLY LOWER



NATIONAL RADIO PRODUCTS



NATIONAL LOW LOSS SOCKETS



XLA—A low loss socket for the 6F4 and 950 series acorn tubes, for high frequencies. Low and constant induction.

XLA—Your Cost..... **\$1.49**



XLA-S—An internal shield fitting the XLA socket and suitable tubes

XLA-S—Your Cost..... **\$0.54**



HX-100S—A low loss wafer socket suitable for type 4-125-A, 4-250-A, and other tubes using giant 5-pin base. Shield grounding clips are supplied. Air holes in the socket permit forced air cooling.

HX-100S—Your Cost..... **\$3.83**

XM-50—A heavy duty metal shell socket for tubes having the Jumbo 4-pin base.

XM-50—Your Cost..... **\$1.80**



HX-29—Low loss wafer socket with stellite insulation for 829 and 832 tubes. Similar to JX51.

HX-29—Your Cost..... **\$1.80**

JX-51—A low loss wafer socket for the 813 and other tubes having the 7-pin base.

JX-51—Your Cost..... **\$1.22**

XCA—A low loss socket for acorn triodes.

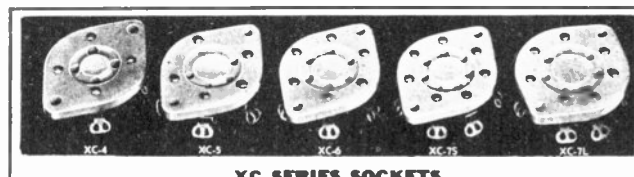
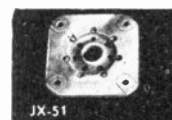
XCA—Your Cost..... **\$1.49**

XMA—For pentode acorn tubes, this socket has built in by-pass condenser. The base is a copper plate.

XMA—Your Cost..... **\$1.98**

XM-10—A heavy duty metal shell socket for tubes having the XU base.

XM-10—Your Cost..... **\$1.35**



XC SERIES SOCKETS

	Your Cost		Your Cost
XC-4	\$0.54	XC-7S	\$0.68
XC-5.....	.59	XC-7L.....	.68
XC-6.....	.63	XC-8.....	.59

National wafer sockets have exceptionally good contacts with high current capacity together with low loss stellite insulation. All types have a locating groove to make tube insertion easy.

NEUTRALIZING CONDENSER



A disc type neutralizing condenser suitable for RCA-800, 3CT, HK-54 tubes. With clamp to lock setting.

	Your Cost
NC800-A	\$4.05
NC75 For 757, 800, 811	
812 similar tubes.	



Velvet Vernier dial. Has a compact variable ratio of 6 to 1 minimum, and 20 to 1 maximum drive. Smooth and trouble free. Black bakelite case. 5 to 1 scale; 3" diameter. Fits 1/4" shaft. Specify dial.

Your Cost

B DIAL..... **\$2.70**

Smaller version of the B dial, for use in limited space. Fixed ratio, 1 or 5 scale. 3" diameter, fits 1/4" shaft.

Your Cost

BM DIAL..... **\$2.48**

For experimenters who "build their own" and desire direct calibration. Fine for Frequency monitors and VOF's. Dial size 5"x7 1/4". Employs velvet Vernier drive. Ratio 5 to 1.

Type ACN—Your Cost..... **\$4.50**

To meet the hundreds of requests for an illuminated ACN dial we now offer you the ICN. Scale same as ICN. Your Cost..... **\$8.00**



HIGH FREQUENCY COILS



The AR-2 and AR-5 coils are high Q permeability tuned RF coils. The AR-2 coil tunes from 75 Mc. to 220 Mc. with capacities from 100 to 10 micro-micro-farads. The AR-5 coil tunes from 37 Mc. to 110 Mc. with capacities from 100 to 10 micro-micro-farads. The inductive windings supplied may be replaced by other windings as desired to modify the tuning range.

Your Cost

AR-2—High Frequency Coil..... **\$2.57**

AR-5—High Frequency Coil..... **2.19**

The XR-50 coil forms may be wound as desired to provide a permeability tuned coil. The form winding length is 1 1/2" and the form winding diameter is 1/2 inch. The iron slug is 3/8" dia. by 1/2" long.

XR-50—Your Cost..... **\$1.51**

NATIONAL MINIATURE CONDENSERS

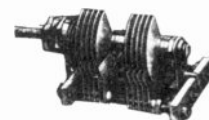


The UM condenser is designed for ultra high frequency use. Shaft extension at each end of the rotor. Can be mounted by the angle foot supplied or by bolts and spacers. Size, base 1" x 2 1/4", axial length 2 1/8" overall, mounting holes, 3/8" x 1-1/8". Straight line capacity, 180° rotation.

Cap. MMF.	Min. Cap.	No. of Plates	Catalog Symbol	Your Cost
15	1.5	6	UM-15	\$1.44
35	2.5	12	UM-35	1.62
50	3	16	UM-50	1.80
75	3.5	22	UM-75	2.16
100	4.5	28	UM-100	2.30
10	1	8	UM-10D	1.94
25	3.4	14	UMA-25	2.43

NATIONAL RECEIVING CONDENSERS

The ST Type condenser has Straight Line Wavelength plates. All double bearing models have the front bearing installed to prevent noise. Stellite insulation.



Cap. MMF.	Min. Cap. MMF.	No. of Plates	Length	Catalog Symbol	Your Cost
SINGLE BEARING MODELS					
15	3	3	1 1/4"	STHS- 15	\$1.44
25	3.25	4	1 1/4"	STHS- 25	1.58
DOUBLE BEARING MODELS					
35	6	8	2 1/4"	ST- 35	\$1.58
50	7	11	2 1/4"	ST- 50	1.92
75	8	15	2 1/4"	ST- 75	2.16
100	9	20	2 1/4"	ST-100	2.39
140	10	27	2 3/4"	ST-140	2.64
150	10.5	29	2 3/4"	ST-150	2.64
200	12.0	27	2 3/4"	STH-200	2.88
250	13.5	32	2 3/4"	STH-250	3.16
300	15.0	39	2 3/4"	STH-300	3.36
335	17.0	43	2 3/4"	STH-335	3.83
SPLIT STATOR DOUBLE BEARING MODELS					
50-50	5-5	11-11	2 3/4"	STD- 50	\$3.83
100-100	5.5-5.5	14-14	2 3/4"	STHD-100	4.80

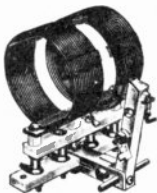
ALL NATIONAL PRODUCTS AVAILABLE — CATALOGUE ON REQUEST

B&W

AIR INDUCTORS

BARKER & WILLIAMSON • UPPER DARBY, PA.

FOR POWERS UP TO 150 WATTS INPUT



B & W Air Wound Inductors are rugged, efficient and inexpensive coils for use in buffer and final amplifier stages. They use a steatite base and plug in jack mounting which gives maximum efficiency and flexibility. Supplied in four types:—Coils without link, end link, center link and variable link. The variable link is unusually good for stages where variable loading is desirable and may be adjusted for matching impedances of 72 ohms. The variable link is part of the jack assembly and adjustment for optimum coupling can be quickly made when tuning up on a new band.

Variable Link Models Center Tapped			End Link Without Tap		Center Link Center Tapped	
Band	Type	Your Cost	Type	Your Cost	Type	Your Cost
5	5BVL	\$2.56	5BEL	\$3.18	5BCL	\$3.08
10	10BVL	2.56	10BEL	3.18	10BCL	3.08
20	20BVL	2.66	20BEL	3.28	20BCL	3.28
40	40BVL	3.04	40BEL	3.75	40BCL	3.75
80	80BVL	3.47	80BEL	4.18	80BCL	4.18

Stock No. 3228—Steatite Jack Bar Assembly for end or center link type B inductors, old type A56.

Stock No. 3229—Jack Bar and Swinging Link for BVL Inductors.

FOR POWERS UP TO 500W INPUT

Variable Link Center Tapped				Center Link Center Tapped			Without Link Center Tapped		
Band	Type	Cap to Res.	Cost	Type	Cap to Res.	Cost	Type	Cap to Res.	Cost
10	10TVL	17	\$2.94	10TCL	19	\$3.95	10T	19	\$1.99
20	20TVL	22	3.04	20TCL	21	3.94	20T	24	2.14
40	40TVL	29	3.47	40TCL	34	4.37	40T	34	2.56
80	80TVL	39	3.94	80TCL	55	4.84	80T	55	3.04

Stock No. 3321—Steatite Jack Bar Assembly for end or center link Type T Inductors, old Type A54.

Stock No. 3322—Base Assy. and Swinging Link for TVL Inductors.

FOR POWERS UP TO 1000W INPUT

Variable Link Center Tapped				Center Link Center Tapped			
Band	Type	Cap to Res.	Your Cost	Band	Type	Cap to Res.	Your Cost
10	10HIDL	16	\$5.94	10	10HIDCL	20	\$7.79
20	20HIDL	18	6.84	20	20HIDCL	20	8.69
40	40HIDL	33	7.31	40	40HIDCL	20	9.17
80	80HIDL	41	8.22	80	80HIDCL	34	10.07

Stock No. 3721—Jack Bar Assembly for HD and HDCL Inductors.

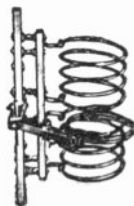
Stock No. 3722—Base Assembly and SL for HDVL Inductors.

POWERS UP TO 500W INPUT

Type TVH Inductors are special group of units designed for specific purpose fitted with 8-Plug-Jack Bar. Automatically changes cap. with coils.

Band	Type	Cap to Res. L.F. End of Band	Your Cost
10	10TVH	11mmf.	\$5.22
20	20TVH	23mmf.	5.22
40	40TVH	28mmf.	5.22
80	80TVH	49mmf.	5.22

No. 3507 Jack Bar and SL Assembly.

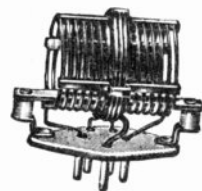


POWERS UP TO 75W INPUT

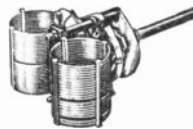
Junior Inductors

Fitted with a standard five-prong steatite base, B & W Juniors are of unusually rugged construction and are highly efficient in operation. Their small size permits compact construction, and they may be used in the oscillator, buffer or final amplifier stage with input powers up to 75 watts and plate voltages up to 850.

End Linked			Center Linked		Variable Linked		
Band	Type	Cap to Res.	Type	Cap to Res.	Type	Cap to Res.	Your Cost
5	5JEL	15	5JCL	15	5JVL	15	\$1.85
10	10JEL	22	10JCL	16	10JVL	22	1.85
20	20JEL	34	20JCL	16	20JVL	21	1.85
40	40JEL	47	40JCL	33	40JVL	31	1.85
80	80JEL	60	80JCL	53	80JVL	46	1.85



FOR POWERS UP TO 75 WATTS INPUT Band Hopper-2A



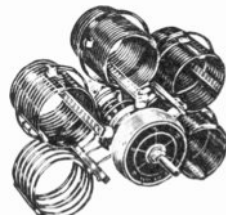
Using the same coil design as B & W Juniors, the new model 2A "Band Hopper" provides a panel controlled unit of unusual compactness. It may be used for interstage coupling between two beam power tubes or between beam power tubes and triodes. By means of a special tapping arrangement, this unit covers the 80, 40, 20, 15 and 10 metre bands. A tuning capacitor of 50 mmfd. capacity is recommended for use with the type 2A "Band Hopper."

No. 2A—Band Hopper

Your Cost \$6.41

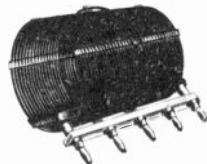
5 BAND TURRET ASSEMBLIES 10-15-20-40-80 metres

75 Watt up to 850 Volts	Your Cost
JTCL —Center Linked	\$12.49
JTEL —Center Tapped	
End Linked	12.49
Untapped	
150 Watt Up to 1000 Volts	
BCL —Center Linked	15.53
Center Tapped	
BEL —End Linked	15.53
Untapped	



ANTENNA INDUCTORS

These Antenna Inductors are designed for maximum efficiency as link coupled antenna coils. Coils are wound with tinned copper wire for ease in tapping feeders to coils.



500 Watt Rating				1000 Watt Rating		
Band	Type	Cap to Res. L.F. End of Band	Your Cost	Type	Cap to Res. L.F. End of Band	Your Cost
10	10TA	20 mmfd.	\$3.85	10HDA	20 mmfd.	\$ 7.79
20	20TA	23 mmfd.	3.94	20HDA	20 mmfd.	8.69
40	40TA	34 mmfd.	4.37	40HDA	20 mmfd.	9.17
80	80TA	50 mmfd.	4.84	80HDA	34 mmfd.	10.07

No. 3321—Jack Bar Assembly. For TA Inductors.

No. 3721—Jack Bar Assembly. For HDA Inductors.

"BABY AIR INDUCTORS"

B & W "Baby" Air Inductors are tops for use in all oscillator and buffer stages employing either link or capacity coupled single-ended or push-pull, pentode or neutralized triodes. They are available in 4 types—all having universal 5-prong plug-in bases for quick, easy band changing. Small and compact 1 1/4" diameter, 1 1/2" long.



Band	Center Tapped	End Linked	Center Linked	Inductance	Capacity	Your Cost
10M	MC	MEL	MCL	1.1	30	\$1.38
20M	MC	MEL	MCL	3.5	35	1.38
40M	MC	MEL	MCL	14	35	1.38
80M	MC	MEL	MCL	40	50	1.38

B & W MININDUCTORS — MINIATURE INDUCTORS

B & W Mininductors will find wide applications, especially in high frequency circuits. Supplied in standard lengths which may readily be cut to size.



Specifications					Your Cost
Cat. No.	Diameter	Turns per inch	Length		
3001	1 1/2"	4	2"		\$0.45
3002	1 1/2"	8	2"		.45
3003	1 1/2"	16	2"		.43
3004	1 1/2"	32	2"		.43
3013	1"	4	3"		.67
3014	1"	8	3"		.67
3015	1"	16	3"		.67
3016	1"	32	3"		.67

STANDARD AIR INDUCTORS

No. 3905—2 1/2" Diam. 6 turns per in. 10 in. long wound with 12 Ena. Wire. Your Cost \$1.99

No. 3906—2 1/2" Diam. 8 turns per in. 10 in. long wound with 14 Ena. Wire. 1.99

No. 3907—2 1/2" Diam. 10 turns per in. 10 in. long wound with 16 Ena. Wire. 1.99

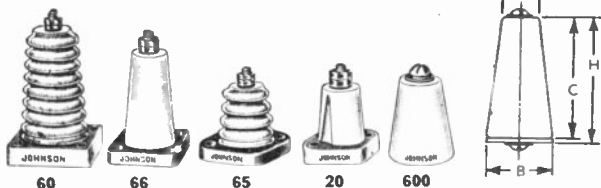
CANADIAN IS AMATEUR RADIO HEADQUARTERS



JOHNSON INSULATORS • SOCKETS



STAND-OFF AND CONE INSULATORS

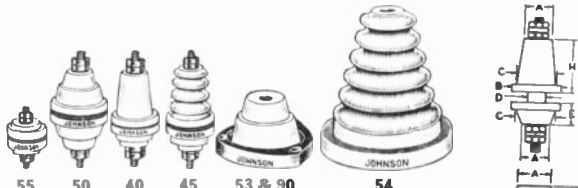


Available in a variety of shapes and sizes all are composed of superior white glazed porcelain except the 500 series which is Alsimag 196. Numbers 65, 66, 67 and 68 are equipped with metal bases which are available either in cadmium plated steel or lacquered brass. Porcelain cones in 600 series have threaded brass inserts, far superior to poorly fitting porcelain threads.

STAND-OFF INSULATORS

Dimensions					Hardware	Your Cost
No.	A	B	C	H		
All Porcelain Types						
135-20	3 1/4	1 3/4	1 1/8	1 5/8	10-32	\$0.13
135-20J	3 1/4	1 3/4	1 1/8	1 5/8	74 Jack	.17
135-22	1 3/8	1 1/4	5/8	1 1/8	8-32	.10
135-22J	1 3/8	1 1/4	5/8	1	74 Jack	.13
135-24	1 1/2	1 1/4	1 1/8	5/8	6-32	.08
135-60	1 1/8	2 1/2	1 1/8	4 1/2	1/4-20	.50
135-62	1 1/8	1 7/8	1 5/8	2 3/4	1/4-20	.33
Metal Base Types						
135-65	5/8	1 1/8	7/8	1 3/8	10-32	.17
135-65J	5/8	1 1/8	7/8	1 3/8	74 Jack	.20
135-66	1 1/4	1 3/4	1 1/4	2 3/4	1/4-20	.33
135-66J	1 1/4	1 3/4	1 1/4	2 3/4	76 Jack	.43
135-67	1 1/4	2 1/4	1 3/4	4 1/2	1/4-20	.53
135-67J	1 1/4	2 1/4	1 3/4	4 1/2	76 Jack	.60
CONE INSULATORS						
Ultra-Steatite						
135-500	7/8	5/8	...	5/8	6-32	.13
135-501	1 1/2	3/4	...	1 1/2	8-32	.20
135-502	1 1/2	1	...	1 1/2	8-32	.37
135-503	5/8	1 1/8	...	2	10-32	.50
135-504	1 1/2	1 1/8	...	3	10-32	.83

THRU-PANEL AND LEAD-IN INSULATORS



All types are composed of high quality white glazed porcelain except No. 55 which is Alsimag 196. Numbers 53 and 54 are single porcelain bushings without hardware. See below for mounting flanges and threaded brass rod to meet your individual requirements. All other types are complete with hardware.

THRU-PANEL INSULATORS

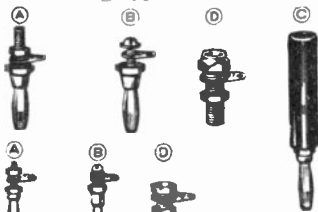
No.	Dimensions					Hardware	Your Cost
	A	B	C	D	E		
135-40	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	10-32	\$0.20
135-40J	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	74 Jack	.27
135-42	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	10-32	.19
135-42J	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	74 Jack	.23
135-44	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	6-32	.15
135-45	5/8	1 1/4	1 1/2	1 1/2	1 1/2	10-32	.27
135-45J	5/8	1 1/4	1 1/2	1 1/2	1 1/2	74 Jack	.33
135-46	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1/4-20	.53
135-46J	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	76 Jack	.63
135-47	1 1/2	2 1/2	1 1/2	1 1/2	1 1/2	1/4-20	.80
135-47J	1 1/2	2 1/2	1 1/2	1 1/2	1 1/2	76 Jack	.93
135-48	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	10-32	.33
135-48J	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	74 Jack	.40

LEAD-IN BUSHINGS

No.	A	B	C	D	E	Hardware	Your Cost
135-50	3/8	1 1/8	1 1/8	1 1/8	1 1/8	6-32	.19
135-51	5/8	1 1/2	1 1/2	1 1/2	1 1/2	10-32	.27
135-52	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1/4-20	.43
135-53	1 1/2	2 1/2	2	1 1/2	1 1/2	...	.20
135-54	1 1/2	3 1/2	2 1/2	2	1 1/2	...	.47
135-55	1 1/2	3 1/2	2 1/2	2	1 1/2	...	.17

MOUNTING FLANGES OF CAST ALUMINUM

No.	For Bushing No.	Your Cost
90	53	\$0.28
91	54	.56

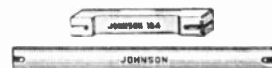


PLUGS AND JACKS

Banana spring type. Nickel silver springs and high grade nickel plated brass screw machine parts with accurate threads and milled nuts. Studs extend full length of springs for added support.

No. Plugs	Illus. Dwg.	Use with	Hardware	Your Cost
108-75	A	74 Jack	3/8-6/32 Stud	\$0.09
108-75-A	B	74	3/4-6/32 Stud	.10
108-75-B	C	74	1-3/8 Plastic Handle Black	.24
108-75-C	D	74	1-3/8 Plastic Handle Red	.24
108-75-D	E	74	5/16-6/32 Screw	.10
108-76	A	76	5/8-1/4-28 Stud	.20
108-77A	B	76	10-32 Screw	.24
No. Jacks	Size	Thread	1/4 Dia.	Your Cost
108-74	D	3/8	1/4	.07
108-76	D	15/16	3/8	.22

ANTENNA EQUIPMENT BY JOHNSON INSULATORS



Wet process Porcelain, smooth white glazing. One inch diameter, long leakage path. Low capacity, free from moisture absorption.

No.	Breaking Strength	Length	Your Cost
136-104	400 lbs.	4 in.	\$0.16
136-107	800 lbs.	7 in.	.64
136-112	800 lbs.	12 in.	.72

STRAIN INSULATORS



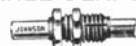
No.	Length	Your Cost
32	1 1/2"	\$0.12



Johnson Tube Socket Hi-Q Inductors Designed for Low Power Stages Mount in 5-Prong Socket

No.	Band	Cap.*	Coupling	Your Cost
230-640	10 meters	24	Center Link	\$1.92
230-641	20	33	Center Link	1.96
230-642	40	37	Center Link	2.00
230-643	80	71	Center Link	2.04
230-650	10 meters	36	End Link	1.72
230-651	20	58	End Link	1.76
230-652	40	70	End Link	1.80
230-653	80	75	End Link	1.84
Coil forms only:				
230-646	4 prong	1 3/4" x 3 3/4"	...	.68
230-647	5-prong	1 3/4" x 3 3/4"	...	.68

PANEL BEARING



Cadmium plated brass, for 1/4" shaft and up to 3/4" panels. Also with 3" and 6" cadmium plated brass shafts.

No.	Your Cost
255—Panel Bearing	\$0.14
256—Bearing and 3" shaft	.32
257—Bearing and 6" shaft	.40

FLEXIBLE SHAFTS



Phosphor bronze, non-rusting, with 1/4" hubs. Perm it out-of-line or up to 90 degree angular control

No.	Length	Your Cost
115-253	3"	\$0.36
115-254	6"	.40

THREADED BRASS ROD



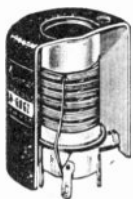
Used with stand-off and thru-panel insulators for making lead-in bushings, and for other purposes. 1/4" diameter, threaded 1/4-20. Nickel plated. Complete with 4 nuts and washers.

No.	Length	Your Cost
115-240	8"	\$0.32
115-241	10"	.36
115-242	15"	.44

EVERYTHING IN TRANSMITTING EQUIPMENT



MEISSNER STANDARD ANTENNA AND R.F. COILS



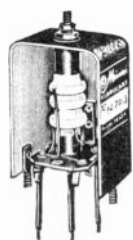
Air-core coil to cover the Broadcast band—190 to 550 meters with a .365 mmf condenser.

All coils are of the high impedance primary type, with litz wire secondaries, and are wound on $7/8$ " diameter forms $2\frac{1}{4}$ " long.

Shielded coils are in black crackle finished non-magnetic cans $1\frac{1}{2}$ " diameter, $2\frac{1}{2}$ " high, with $1\frac{1}{4}$ " mounting centres.

No.	Type	Your Cost
14-1024	Ant. Shielded	\$1.00
14-1025	R.F. Shielded	1.00
14-1010	Ant. Unshielded	.76
14-1011	R.F. Unshielded	.76

Universal-Adjustable Coils



These Adjustable-Inductance Ferrocart (iron-core) coils will replace the Broadcast band coils in practically any receiver. Continuously variable in inductance over a wide range. Exact inductance of old coil is easily matched by a simple screw-driver adjustment. Oscillator coil provides complete adjustment for intermediate frequencies between 175 and 520 kc. Complete instructions. Shields are black crackle finish, $1\frac{1}{4}$ " square by $2\frac{1}{2}$ " high.

No.	Description	Your Cost
14-1026	Universal Ant. Coil	\$1.40
14-1027	Universal R. F. Coil	1.40
14-1028	Universal Osc. Coil	1.40
BROADCAST SHIELDED		
14-7413	Universal Ant. Coil	\$2.24
14-7558	Universal R. F. Coil	2.24
14-7560	Universal Osc. Coil	2.24
1.7 - 5.3 MC UNSHIELDED		
14-1041	Antenna Coil	\$1.40
14-1042	R. F. Coil	1.40
14-1043	Oscillator Coil	1.40
5.3 - 16.5 MC UNSHIELDED		
14-1044	Antenna Coil	\$1.40
14-1045	R. F. Coil	1.40
14-1046	Oscillator Coil	1.40



"SLIP-OVER" REPLACEMENT PRIMARY WINDINGS

Economically replace burn out primaries on all types Ant. and R.F. coils, where a new primary winding can be slipped over the secondary. All high impedance type for improved performance.

No.	Size	Your Cost
14-6850	For $1\frac{1}{4}$ " O.D. Coil	\$0.32
14-6852	For 1" O.D. Coil	.28
14-6854	For $7/8$ " O.D. Coil	.28
14-6856	For $3/4$ " O.D. Coil	.28
14-8418	For $1\frac{1}{2}$ " O.D. Coil	.24



MEISSNER FERROCART (Iron Core) I.F. Transformer

These units are accurately made from the very best materials, and are oscilloscope-tested for gain and selectivity. Mounted in $1\frac{3}{8}$ " square x $3\frac{1}{2}$ " aluminum finished cans.

Freq.	Input	Output	Your Cost
175	16-5728	16-5730	\$2.24
456	16-5740	16-5742	2.24

STANDARD OSCILLATOR COILS



Designed for use with any of the Meissner Antenna and R.F. coils using a .365 mmf tuning condenser. For the broadcast band 190 to 550 meters. Shielded coils are in cans $1\frac{1}{2}$ " diameter, $1\frac{1}{4}$ " high, and have spade bolt mountings.

No.	I.F. Freq.	Padder	Shielding	Your Cost
14-3732	175kc	990mmf	No	\$0.84
14-6590	262kc	700mmf	No	.84
14-6592	370kc	500mmf	No	.84
14-4034	456kc	350mmf	No	.84
14-4242	175kc	990mmf	Yes	1.08
14-4243	456kc	350mmf	Yes	1.08
14-1033	456kc	350mmf	No	.68

*Special for 6SA7 Tube

COMPACT ANTENNA AND R.F. COILS



Highly efficient designed for use where space is at a premium. Cover standard Broadcast band (190 to 550 meters) with a .365 mmf. tuning condenser. High impedance primary windings with litz-wire "progressive-universal" secondaries. ($5/8$ " diameter $1\frac{3}{4}$ " long.)

ings with litz-wire "progressive-universal" secondaries. ($5/8$ " diameter $1\frac{3}{4}$ " long.)

No.	Description	Your Cost
14-1022	Unshielded Ant. Coil	\$0.68

No.	Description	Your Cost
14-1023	Unshielded R.F. Coil	.68

"ALIGN-AIRE" PRECISION I.F. TRANSFORMERS



Absolutely the finest that money can buy. Unaffected by humidity changes, non-microphonic and dust-proof.

All types are double tuned. Black crackle shields are 2 " x $2\frac{1}{4}$ ".

No.	Freq.	Use
16-6613	156	Output
16-6123	456	Inter-stage
16-6615	456	Output
16-6139	456	Output C.F.

Your Cost Each..... \$5.56

REPLACEMENT I. F. WINDINGS



Coils are wound on wood dowels, $5/8$ " diameter, and $1\frac{1}{2}$ " long; coupling is adjustable by sliding primary coil. Complete instructions furnished with each coil.

No.	Freq.	Type	Your Cost
16-6600	175	Standard	\$0.68
16-6601	456	Standard	.68
16-6602	175	Center-tap	.88
16-6603	456	Center-tap	.88

MEISSNER STANDARD AIR-CORE I.F. TRANSFORMERS



This air core transformer makes an excellent unit for replacement purposes. Greater I.F. gain is usually obtained when a defective unit is replaced by a Meissner Standard Air-Core I.F. in the average home receiver. Compact only $1\frac{1}{2}$ "x $1\frac{1}{2}$ "x $3\frac{1}{2}$ ", to fit into small spaces.

Freq.	Input	Inter-stage	Output	Output C.F.
175	16-5700		16-5702	16-3731
262	16-5701		16-5706	
456	16-5712	16-6133	16-5711	16-3736

Your Cost \$1.68

"PLASTIC" I.F. TRANSFORMERS



Where space is at a premium and superior performance is required, use these remarkable transformers. Only $1\frac{1}{4}$ " square and $2\frac{1}{2}$ " high! Complete series of frequency ranges and positions. One-piece molded plastic coil form and trimmer-base eliminates many separate parts.

Freq.	Input	Inter-stage	Output
175	16-6619	16-6650	16-6651
262	16-6652	16-6653	16-6654
370	16-6655	16-6656	16-6657
456	16-6658	16-6659	16-6660

Your Cost \$1.12

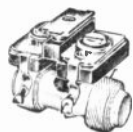
IRON-CORE "PLASTIC" I.F.'s

Highly recommended for use in compact receivers and auto sets where only one I.F. stage is permitted. Not recommended in a two stage system because of their high gain which would cause instability and oscillation.

Freq.	Input	Output	Iron Core
456	16-6662	16-6663	"

Your Cost \$1.68

"CARTWHEEL" I-F TRANSFORMERS



A brand new, ultra compact, unshielded I.F. transformer, complete with dual trimmers; finds useful application in many types of compact AC DC or Midget type receivers. Also useful as a replacement unit in the many sets using odd shapes and locations for their I.F. Transformers. Only $1\frac{1}{4}$ " by $1\frac{1}{4}$ " by $1\frac{1}{4}$ " high one-piece molded plastic trimmer base; for 156 kc only.

No. 16-6661 Your Cost..... \$1.12

DOWEL TYPE PRIMARY



Popular replacement for burned out primaries in high impedance antenna coils. Universal wound on $1\frac{1}{2}$ " diam. by $1\frac{1}{2}$ " long dowels moisture protected. Inductance 1700 uh.

No. 14-6865. Your Cost..... \$0.32

BUY NOW — KEEP YOUR STOCK UP TO DATE



No.	Your Cost
16-6675—AM-FM I.F. Transformer.....	\$3.20
17-3487—FM Ratio Detector.....	3.08

NEW 3/4" SQUARE IF TRANSFORMER



For replacement of popular "carry" type radio, or compact AC-DC models. A high gain type intended for battery sets, in input and output model. Coil wound on Hi-Q powdered iron core. Size 3/4" square x 2" long. Frequency 456 KC.

No.	Your Cost
16-6668—"Battery" type Input.....	\$1.40
16-6669—"Battery" type Output.....	1.40
16-6678—AC-DC type Input or Output	1.40

F. M. COILS I.F. TRANSFORMER



Permeability tuned; designed for use on newly assigned F.M. frequencies. Mounted in 1 1/4" x 5/8" x 1 1/2" can. Tuned to 10.7 mc.

No.	Your Cost
16-6665.....	\$2.36

DISCRIMINATOR TRANSFORMER

Mounted in same size can as I.F. Transformer listed above. Permeability tuned to 10.7 mc.

No. 17-3484.	Your Cost.....	\$3.12
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PHILIPS AIR TRIMMERS

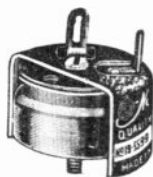


Philips air trimmers have been designed to give high insulating resistance low temperature coefficient, ease of alignment, assembly and testing, and a high degree of stability.

These concentric air Dielectric trimming capacitors, are made of extruded aluminum with the motor moving on a ceramic pillar. Their lightness and small size makes them suitable for use within the coil can, for suspension in the wiring, or for fixing on the chassis in conjunction with the mounting plate as illustrated.

	7863	7864
Min. Capacity	3 mmfd	3 mmfd
Max. Capacity	20 mmfd	30 mmfd
Parallel Damping	3 M ohms	3 M ohms
Rotation Angle	1080°	1080°
Insulation Resistance	30,000 M ohms	
Working Voltage	75 V DC	75 V DC
Test Voltage	300 v DC for 1 sec at 20°C	
Max. Working Temp.	85°C	85°C
7863—Your Cost.....	\$0.50	
7864—Your Cost.....	.50	

AIR-CORE R.F. CHOKES



Wound on specially treated dowels, mounted on bakelite terminal base, and moisture-proof. Shielded and unshielded. Shielded chokes have terminals through top of can so unit may be mounted on inside wall of chassis. Shield cans are black crackle finish, 1 1/2" diameter.

	Shielded	Your Cost
19-5582	2.5 MH	\$0.72
19-5584	5.5 MH	.72
19-5588	8.0 MH	.76
19-1900	10.0 MH	.84
19-5590	16.0 MH	.88
19-5592	30.0 MH	.96
19-5594	60.0 MH	1.08
19-5596	80.0 MH	1.12

Unshielded

No.	Inductance	Your Cost
19-1994	2.5 MH	\$0.52
19-4551	5.5 MH	.52
19-2078	8.0 MH	.56
19-8770	10.0 MH	.60
19-1995	16.0 MH	.68
19-2330	30.0 MH	.72
19-3247	60.0 MH	.84
19-2709	80.0 MH	.88

IRON CORE R.F. CHOKES

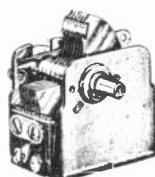


These accurately wound chokes provide maximum efficiency—lower DC resistance per MH. Genuine Ferrocart iron-cores, wax-impregnated coils, unshielded only.

No.	Inductance	Your Cost
19-6834	2.5 MH	\$0.76
19-6840	10.0 MH	.96
19-6842	30.0 MH	1.12
19-6844	60.0 MH	1.28
19-6846	80.0 MH	1.44
19-6848	125.0 MH	1.84

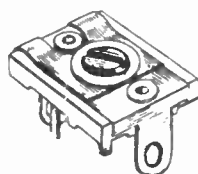
ICA MIDGET PRECISION

CONDENSERS



Better mechanical design insures constancy of calibration and uniformity between units. Ball-bearings on both ends of shaft insure long life without wear or side play. Heavy brass springs make direct contact with rotor shaft, insuring a clean wiping contact at all times.

No.	Single Gang Condenser	Your Cost
533	135 mmfd.	\$2.40
542	365 mmfd.	2.40
No.	Two Gang Condenser	Your Cost
538	135 mmfd.	2.80
534	365 mmfd.	2.80
No.	Three Gang Condenser	Your Cost
532	135 mmfd.	3.60
531	365 mmfd.	3.60



TRIMMER-PADDER CONDENSERS

They balance, trim, neutralize, couple. Mica dielectric, Isolant base. Screw-driver adjustment. Color coded. Size 5/8" x 3/4".

		Your Cost
25	Blue.....	\$0.28
50	Purple.....	.28
100	Brown.....	.32
150	Black.....	.32
200	Red.....	.36
300	Orange.....	.36
400	Yellow.....	.40
500	Green.....	.40

BROADCAST BAND WAVE TRAPS



Compact units designed for the elimination of interference caused by strong broadcast stations. Shielded and moisture protected. Easy adjustment. Shields 1 1/8" x 1 1/8" high.

No.	Your Cost
15-8479—400-700 KC.....	\$1.20
15-8480—650-1000 KC.....	1.20
15-8481—950-1600 KC.....	1.20



PHONO-OSC. COIL

For use in building either wireless or direct-connected phonograph oscillator units for record reproduction through the radio receiver. Knob adjustment permits selection of clear frequency in the broadcast band. Coil in aluminum shield, 1 1/8" square by 3 1/2" high.

No. 17-9373	Your Cost \$2.24
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B. F. O. COIL

For use with standard I.F.'s in superhet receivers. They supply the "beat" note necessary to reception of C. W.; materially aid in tuning and locating weak stations. Mica trimmed. Freq. Range 290-650 KC. Peaked at 456 KC. In 1 1/8" sq. x 3 1/2" h. can with knob for pitch control.

No. 17-6753.	Your Cost.....	\$1.96
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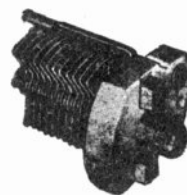


SMALL "PLASTIC" IF TRANSFORMER

Plastic Air Core if transformers with small shield. Size only 1 1/8" square 2 1/2" high. 456 KC. Universal replacement for many post-war receivers.

No.	Your Cost
16-6666—Input IF transformer.....	\$1.12
16-6667—Output IF transformer.....	1.12

MILLEN RECEIVING CONDENSERS



Wide variety of small variable air capacitors in all the popular sizes. Can be had on special order with lock nut construction by adding the symbol LN after the code number.

No.	Description	Your Cost
26025	3.25 mmfd Air Padder	\$1.35
26050	4-50 mmfd Air Padder	1.54
26075	4.3-76 mmfd Air Padder	1.70
26100	5-97 mmfd Air Padder	1.85

ALL TYPES OF NATIONAL AND MILLEN CONDENSERS AVAILABLE

JAMES MILLLEN

BINDING POST AND PLUGS

No.	Description	Your Cost
37221	Black or brown bakelite plates, pr.	\$0.41
37222	Nickel plated binding posts, pr.	.54
37221	Nickel plated jacks, pr.	.41
37212	Black, brown or red plug	.94

MILLEN SAFETY TERMINAL

Millen design of a high voltage terminal and cap is made for connecting high voltage from power supply to R.F. amplifier. Provides good insulation through chassis. Tapered plug for high area, heavy pressure contact.

No.	Your Cost
37001—Red bakelite	\$0.54
37001—Black bakelite	.54
37501—Low loss mica bakelite	.74

MILLEN STEATITE TERMINAL STRIPS

Especially designed to prevent AC arc-over and short circuits when changing connections.

No.	Your Cost
37302—2 terminal	\$0.81
37303—3 "	.94
37304—4 "	1.08
37305—5 "	1.22
37306—6 "	1.35

MILLEN STEATITE INSULATED GRID AND PLATE CAPS

Sturdy spring connectors will maintain good contact under extreme heat and current.

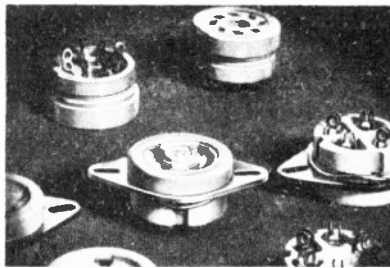
No.	Your Cost
36001—for 866 and 813	\$0.28
36002—for 807	.28
36004—for metal tubes	.28

HASH FILTERS

The "hash filters" are designed to eliminate the interference caused by mercury vapour types of rectifier tubes. Wound on Isolantite cores. They should be connected in each plate lead as close to the tube as possible.

No.	Your Cost
77083—"83" Hash Filter, 250 Ma	\$1.35
77866—"866" Hash Filter, 500 MA, PR.	1.68
77872—"872" Hash Filter, PR.	1.85

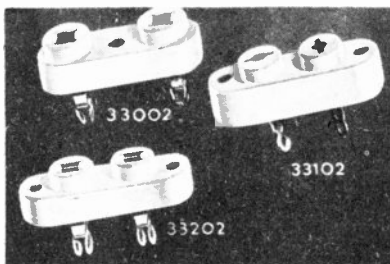
MILLEN TUBE SOCKETS



Millen high grade tube sockets contain an insulating barrier between all contacts allowing operation at high voltages.

No.	Description	Your Cost
33004	4 prong	\$0.41
33005	5 prong	.41
33006	6 prong	.41
33007	7 prong	.45
33008	octal socket	.41
33307	Midget 9000 series socket with shield	.88

CRYSTAL SOCKETS



Not just another type of socket, but the right kind of socket for the right job. Well made crystal sockets in four sizes.

No.	Description	Your Cost
33002	3/4" spacing .125 pins	\$0.34
33102	.487" spacing .095 pins	.34
33202	1/2" spacing .125 pins	.34
33302	.487" spacing .050 pins	.28



MILLEN COIL SHIELDS

Specialties in the design and manufacture of high permeability shields. Available in a variety of sizes and shapes.

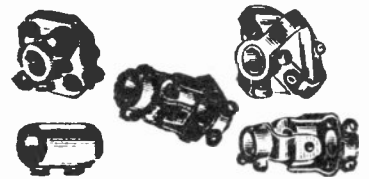
No.	Description	Your Cost
80003	Square Alum. 1-7/16 x 4"	\$0.34
80004	Oblong " 1-7/16 x 1-7/8"	.41
80005	Square " 2 x 4-7/8"	.41
80006	Round " 2-1/8 x 4"	.34
80007	Round—No top lug mtg.	.47
80008	Round—Removable top	.61



DIAL LOCK

Captive Head—Front of Panel Mounting. For use with Vernier type dials.
No. 10050 Dial lock.
Your Cost \$0.61

MILLEN FLEXIBLE COUPLINGS



All of the flexible couplings illustrated here are for 1/4" shaft and are standard production type units.

No.	Your Cost
39001—Truly Flexible Isolantite Coupling	\$0.48
39002—Conventional Coupling	.48
39003—Solid Brass N.P. Coupling	.28
39005—Universal Joint, Non-insulated Coupling	.48
39006—Slide Action Coupling, Steatite Insulation	.48

HIGH VOLTAGE RING TYPE COUPLING



Large diameter Isolantite ring type coupling for high voltage applications.

No. 39009	Your Cost \$0.74
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HIGH VOLTAGE FLEXIBLE COUPLING



A "truly flexible" coupling for high voltage applications. No backlash. Angle drives up to 45° may be obtained. Isolantite insulation.

No. 39011—Your Cost	\$1.22
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COUPLINGS, REDUCERS AND SHAFTS



Ideal for coupling variable condensers or for extending shafts.

BRASS COUPLINGS

No.	Size	Your Cost
2105	1/4 x 1/4	\$0.16
2106	3/8 x 3/8	.16
2107	1/4 x 3/8	.16

REDUCERS

No.	Male End	Female End	Your Cost
2111	1/4	1/4	\$0.16
2112	1/4	3/8	.16
2113	3/8	1/4	.16

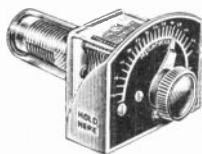
EXTENSION SHAFTS

No.	Material	Length	Your Cost
2117	Brass	6"	\$0.16
2118	Brass	12"	.32
2120	Bakelite	6"	.24
2121	Bakelite	12"	.48

C. E. S. PRICES ARE CONSISTENTLY LOWER

JAMES M. MILLEN

MILLEN MIDGET ABSORPTION FREQUENCY METERS



These handy instruments can be poked into small shield compartments coil cans, corners of chassis, etc., to check harmonics; parasitics; oscillator-doubler, etc., tank tuning; and a host of other such applications. Quickly enables the design engineer to find out what is really "going on" in a circuit.

Your Cost

90605	—Range 3.0 to 10 mc.....	
90606	—Range 9.0 to 23 mc.....	\$6.10
90607	—Range 23 to 60 mc.....	each
90608	—Range 50 to 140 mc.....	
90600	—Complete set of 90605 thru 90608, in case.....	24.25

R.F. CHOKES

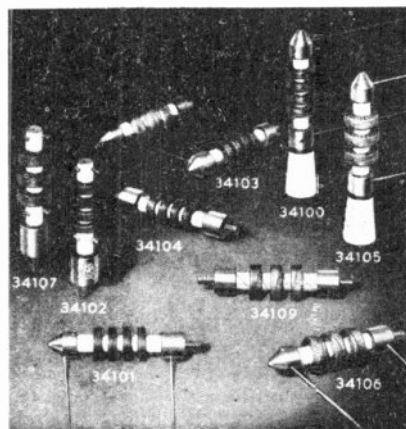


R.F. chokes to meet all requirements. The 34200 Series are single coil high inductance units wound on a low loss Steatite form.

No.	Description	Your Cost
34140	—Universal air core transmitting choke.....	\$1.35
34152	—4mH Amateur Transmitting choke.....	2.00
34154	—Amateur band air core 1mH, 600 mA.....	2.35
34156	—2 1/2 mH (500 mA) Transmitting choke.....	1.40
34210	—General purpose 10mH.....	.81
34225	—General purpose 25mH.....	1.00
34240	—General purpose 40mH.....	1.00
34280	—General purpose 80mH.....	1.14
34285	—General purpose 85mH.....	1.22

MIDGET R.F. CHOKES

No.	Your Cost	No.	Your Cost
2.5mH	250mA	1.0mH	300mA
34100	\$0.54	34105	\$0.56
34101	.45	34106	.48
34102	.54	34107	.56
34103	.45	34108	.48
34104	.54	34109	.56



MILLEN IF TRANSFORMERS



- Fully guaranteed
- Moderately priced
- World famous transformers
- Incomparable in quality

63456

No.	Air Trimmed	
60456	—456 Interstage (2)	Air Core
60455	—456 Interstage (1)	Air Core
60454	—456 Diode	Air Core
63456	—456 BFO	Air Core
62456	—456 Interstage	Iron Core
62454	—456 Diode	Iron Core
62161	—1600 Interstage	Iron Core
62162	—1600 Diode	Iron Core
63163	—1600 BFO	Air Core
Any Type—Your Cost each.....		\$6.10

Permeability Tuned

64456	—456 Interstage (2).....	3.00
64454	—456 Diode (2).....	3.00
65456	—456 BFO.....	3.00

De Luxe Permeability Tuned

64161	—1600 Interstage.....	3.35
65163	—1600 BFO.....	3.00
68161	—1600 Interstage.....	6.10
68162	—1600 Diode.....	6.10
68163	—1600 BFO.....	6.10
68456	—456 Interstage.....	6.10
68454	—456 Diode.....	6.10
68457	—456 BFO.....	6.10

R9'er MATCHING PRE-AMPLIFIER



An electronic impedance matching device and a broadband preamplifier combined into a single unit. Designed primarily for operation on 6 to 10 meters. Coils 20 meter band also available.

No. 92101. Your Cost..... \$33.25

MILLEN NEW STYLE TRANSMITTING CONDENSER



These new style transmitting condensers are extremely compact, and highly efficient. This compact design is made possible by the use of ultra low loss Quartz as a dielectric.

No.	Capacity Range	Peak Voltage	Your Cost
15001	0.7-4.3	5000*	\$1.22
15002	0.5-13.5	5000*	1.40
15003	1.5-8.5	5000*	1.22
15005	3.4-14.6	4000	2.70
15006	2.8-9.1	6000	4.00

*Maximum recommended DC plate volts 1000.

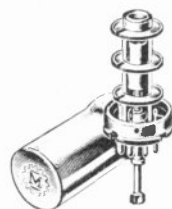
MILLEN BAND WAVE TRAPS



Millen wave traps afford practical means of combatting B.C.L. interference complaints.

No.	Your Cost
79010	—28 MC Band..... \$1.22
79020	—14 MC Band..... 1.22
79040	—7 MC Band..... 1.22
79080	—3.5 MC Band..... 1.22

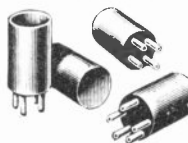
MILLEN PLUG-IN TUNABLE COIL FORM



Standard octal base of low loss mica-filled Bakelite, polystyrene 1/2" diameter coil form, heavy aluminum shield, iron tuning slug of high frequency type, suitable for use up to 35 mc. Adjusting screw protrudes through center hole of standard octal socket.

No. 74001	with iron core.....	\$2.04
No. 74002	less iron core.....	2.00

MIDGET COIL FORMS



Made of low loss mica filled brown bakelite. Guide funnel makes for easy threading of leads through pins.

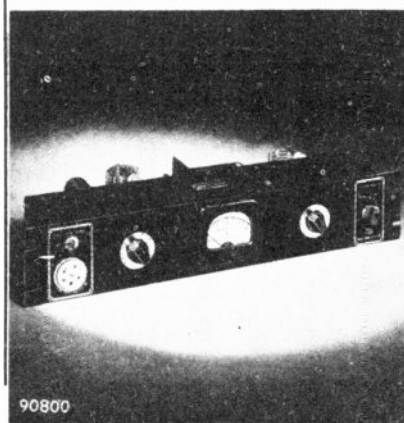
No.	Your Cost
45000	—1"—No prongs..... \$0.39
45004	—1"—4-prong..... .50
45005	—1"—5-prong..... .50

50 WATT TRANSMITTER

Based on an original Handbook design, this flexible unit is ideal for either low power amateur band transmitter use or as an exciter for high power PA stages.

Model 90800, less tubes

Your Cost..... \$57.00

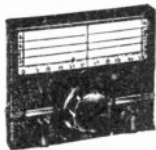


WE SELL EVERYTHING IN RADIO

JAMES MILLEN



JAMES MILLEN PANEL-DIALS



10035



10039

Both these illuminated panel dials are of compact mechanical design, easy to mount and have totally self contained mechanism eliminating back of panel interference.

Standard finish, flat black art metal
10035 has 12 to 1 ratio and is $8\frac{1}{2}'' \times 6\frac{1}{2}''$
10039 has 8 to 1 ratio and measures $4'' \times 3\frac{1}{4}''$.

10035	Your Cost.....	\$8.00
10039	Your Cost.....	3.65

TUNING KNOBS



Large and medium sizes.
Fitted with brass insert.

No.	Dia.	Your Cost
10006	$2\frac{3}{4}''$	\$0.67
10018	$1\frac{3}{4}''$	.54

MILLEN THRU-BUSHING



Efficient, compact, easy to use and neat appearing. Fits $\frac{1}{4}''$ hole in chassis. Held in place with a drop of solder or a "nick" from a crimping tool.

No. 32150—Your Cost Box of 5 \$0.28

BAND WAVE TRAPS



A range of band wave traps to fit every requirement. High quality, precision products.

No.	Description	Your Cost
79010	Band Wave Trap	\$1.22
79020	14 Mc Band Wave Trap	1.22
79040	.7 Mc Band Wave Trap	1.22
79080	3.5 Mc Band Wave Trap	1.22
79160	1.7 Mc Band Wave Trap	1.22

ULTRA HIGH FORM

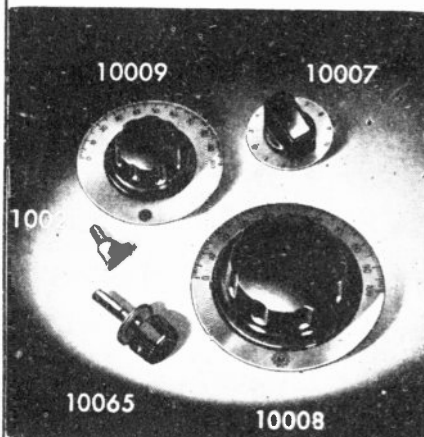


Permeability tuned coil form as used in the popular Millen R'9'er.

No. 69041

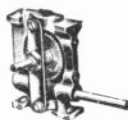
Your Cost \$0.81

MILLEN QUALITY KNOBS AND DIALS



No.	Your Cost	No.	Your Cost
10007	10 divisions over 180° or 280° $1\frac{5}{8}''$	10021	Indicator
	\$0.81		\$0.20
10008	0-100 $3\frac{1}{2}''$ diam.	10065	Vernier
	1.35		
10009	0-100 $2\frac{3}{4}''$ diam.	drive.....	.61
	1.15		

WORM DRIVE UNIT



Cast aluminum frame may be panel or base mounted. Standard ratio, 16/1. Also 48/1 on special order. Spring loaded split gears eliminate backlash.

Condensers, etc. attached to $\frac{1}{4}''$ shaft by means of flexible couplings (not furnished).

Your Cost

No. 10000—Worm Drive..... \$6.00

SHAFT LOCKS



In connection with mobile and stationary equipment subject to vibration, these locks will find

many applications in connection with potentiometers, variable condensers, etc.

No.	Description	Your Cost
10060	—With Mounting Strap..	\$0.48
10061	—Mounting nut for potentiometers, etc.....	.48
10062	—With knurled control knob.....	.61
10063	—With lever control.....	.61

MILLEN PANEL MARKING

Decalcomania Kits



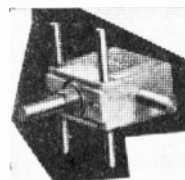
The Decalcomania Kit is a new "war time development" that permits the amateur and home constructor to work the panel of his transmitter, etc. in accordance with the latest practice. These transfers have $\frac{1}{8}''$ block letters. Special Solution furnished. Ample supply of every conceivable word or marking required for amateur or commercial equipment.

Your Cost

No. 59001—White Letters..... \$1.68

No. 59002—Black Letters..... 1.68

RIGHT ANGLE GEAR DRIVE



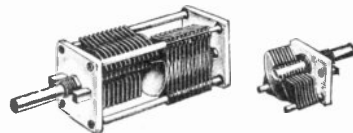
Extremely compact. Case size $1\frac{1}{2}'' \times 1\frac{1}{2}'' \times \frac{3}{4}''$. Uses bevel gears. Mounts on adjustable "stand-off rods", single-hole panel bushing or tapped

holes in frame. Ideal for operating switches, potentiometers, etc., in remote parts of chassis.

No. 10012—Gear Drive.

Your Cost..... \$5.00

MILLEN STEATITE CONDENSERS



Steatite midget condensers covering a wide range of capacitors. Either single or double end bearings.

No.	Description	Your Cost
22035	Steatite midget 35 mmfd SS	\$2.35
22050	Steatite midget 50 mmfd SS	2.50
22075	Steatite midget 75 mmfd SS	2.65
22100	Steatite midget 100 mmfd SS	2.70
22140	Steatite midget 140 mmfd SS	3.12
22915	Steatite midget 15 mmfd DS	2.25
22935	Steatite midget 35 mmfd DS	2.50
22950	Steatite midget 50 mmfd DS	2.65
23075	Steatite Dual midget 75 mmfd per section SS	4.45
23100	Steatite Dual midget 100 mmfd per section SS	4.65
23140	Steatite Dual midget 140 mmfd per section SS	4.90
23925	Steatite Dual midget 25 mmfd per section DS	4.25
23950	Steatite Dual midget 50 mmfd per section DS	4.35

ALL MAIL ORDERS SHIPPED SAME DAY AS RECEIVED

QUALITY AMATEUR EQUIPMENT

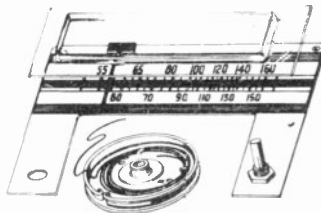
AEROMOTIVE PERMEABILITY TUNERS



SUPERHETERODYNE— SLIDE RULE TYPE—5" SCALE

- *Tunes 540 to 1600 KC.
- *3 color dial scale—Gold—buff—brown.
- *Smooth drive.
- *All units pretracked at factory. Individually packed complete ready to use including extruding acetate window and hook up diagram.

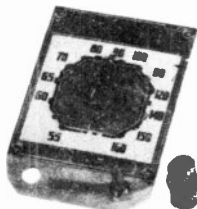
A-210 Your Cost \$5.40



5" SLIDE RULE DIAL FOR 2 GANG SUPERHET VARIABLE CONDENSER

- *Artistic 3 colors.
- *Complete with: Acetate window, Pointer, Driveshaft, Dial cable, Drum.
- *Individually packed.

A-185 Your Cost \$2.20

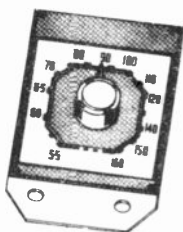


SUPER-HETERODYNE

- *Tunes from 540 to 1600 KC.
- *3 color dial—gold—buff—brown.
- *Smooth drive.
- *Complete with matched oscillator coil.
- *All units pretracked at factory.

Individually packed, complete ready for use, including diagrams and instruction sheet.

A-230 Your Cost \$3.80



REGENERATIVE TUNER

- *Tunes from 540-1600
- *3 color dial scale.
- *Complete with coil.
- *Pretracked at factory. Ideal for the experimenter.
- Replaces single gang condenser.

A-260 Your Cost \$1.92

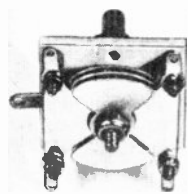


FM DIAL TUNER HEAD

- *Tunes 88-108 MC.
- *Compact to assure efficiency.
- *3 color dial scale—gold—buff—brown.
- *Easy tuning.
- *Pretracked at factory
- *Matched parts.
- *All high frequency circuits wired, assuring easy alignment.

Individually packed, ready to use.

A-275 Your Cost \$5.56



CARDWELL midget CONDENSERS FOR VHF

A new line of 90° condensers with butterfly rotor plates. They give Electrical symmetry, low distributed inductance, no moving contacts, isolantite insulation. Single hole mountings and small size.

CARDWELL V.H.F. 90 DEGREE TRIM-AIR MIDGETS

Part No.	Type	Max. Cap.	Min. Cap.	No. Plates Rotor	No. Plates Stator	Air Gap.	Lgt. Overall	Your Cost
6075	ER-3-BF/S	3	1.5	2	1	.030"	1 1/8"	\$2.08
6076	ER-6-BF/S	5	1.5	3	2	.030"	1 1/8"	2.16
6077	ER-8-BF/3	7	2.0	4	3	.030"	1 1/8"	2.24
6078	ER-15-BF/S	13	3.0	7	6	.030"	2 3/8"	2.72
6079	EU-25-BF/S	20.4	3.4	8	7	.020"	2 3/8"	2.92
6080	EU-35-BF/S	27	4.0	10	9	.020"	2 3/8"	3.04
6113	ER-14-BF/SL	13	10.4	(3) DISC (2) 90°	(2) 180° (2) 90°	.030"	2 1/8"	3.20

PERMEABILITY RADIO TUNER

Simpler . . . More Accurate . . . More Compact . . .

POPULAR WITH AMATEURS IDEAL FOR KITS.

Eliminates the need for tuning condensers and coils and provides most efficient high gain operation. The unit is well suited for inclusion in radio construction kits, for radio service dealers, amateurs, experimenters, etc. Full Band Coverage from 540 to 1620 KC. Provides Short Wave Spread-Band Tuning. Complete details for construction of complete 6-tube radio receiver, together with a complete parts list, are supplied in each package.

Your Cost

Model 2840 Vario-Tuner \$3.78

Loop Antenna to match 1.47



GRID CAP SHIELD

Fits firmly over the grid cap completely shielding the tube.

Your Cost

No. 6020 \$0.14



PLUG-IN COIL FORMS

The material used is a special natural color bakelite having a very low loss factor. Forms have a shoulder on the inside suitable for mounting a regular Tiny Mite Padder condenser in the coil.

Cat. Number	Pr.	Dia. dim.	Hgt. Z.	Your Cost
CF-125	4	1 1/2"	2 7/8"	
CF-126	5	1 1/2"	2 7/8"	
CF-310	6	1 1/2"	2 7/8"	



COIL SHIELDS

With Detachable Base

A sturdy coil shield made of aluminum with a detachable base.

Your Cost
No. 1539—2 1/4" x 3" High \$0.48
1540—2 1/2" x 3 1/2" High .56
1549—3" x 3 1/2" High .60



ALUMINUM TUBE SHIELD

For 55, 57, 68, etc. type tubes

No.	Your Cost
1708—1 1/4" mounting centers	\$.32
1709—1 1/2" mounting centers	.32

ALUMINUM TUBE SHIELD

Will fit all standard Screen Grid Tubes Supplied with base. 1 3/4" mounting center.

No.	Your Cost
1541	\$0.32



807 TUBE SHIELD

For use with Transmitter Pentodes, and Tetrodes, to prevent oscillation. Can also be used on RK 20, RK 39 and 804 tubes.

No.	Your Cost
1545	\$0.48

GT and GT/G TYPE TUBE SHIELDS

Latest type seamless, drawn shell type. Length 2 1/4".

No.	For Tube Diam.	Your Cost
1744—Open top*	1.218	\$0.12
1745—Closed top*	1.218	.12
1746—Open top**	1.165	.12
1747—Closed top**†	1.165	.12

*For GT and GT/G tubes with large metal base

**For GT tubes with small metal base

†For Loktal tubes

FORM FIT TUBE SHIELDS

A tube shield that assures a snug, positive fit. Vertical grooves provide flexibility. Includes ground clip as illustrated. Protects tubes against excessive vibration.

No. 1729B—For GT and GT/G tubes. Length 2 3/4". Your Cost \$0.12

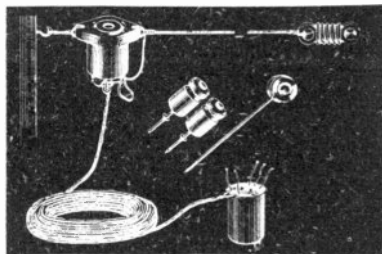


EVERYTHING FOR THE "HAM" AT C.E.S.

ANTENNA FOR ALL PURPOSES

F.M.
TELEVISION
SHORT-WAVE

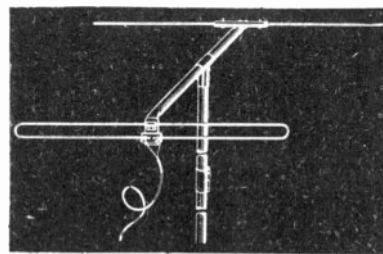
TACO



TACO MEANS •WEATHERPROOF
•HIGHEST QUALITY
•GUARANTEED

TECHNICAL CONSIDERATIONS

- ★ Noise to noise reduction.
- ★ Automatic frequency selection.
- ★ Broad characteristics.
- ★ Low loss line.
- ★ Covering all standard AM-FM.
- ★ True FM quality.
- ★ Will match any standard type.



FINEST FOR AM-FM RECEPTION

L-TYPE ANTENNA SYSTEM

Especially designed for where the doublet antenna cannot be easily erected. The noise reduction of this system is slightly lower on the shortwave bands, but it excels in durability and ease of erection.

★ **CAT. No. 228-FM ANTENNA SYSTEM.**—Consists of 1 Type 229 antenna transformer; 1 Type 223 Set Transformer; 1 50 ft. coil of antenna wire; 1 60 ft. high-frequency transmission line; 1 screw eye; 2 nail knobs; 1 antenna insulator. Packed in display box with complete instructions.

No. 228-FM—For Broadcast and Shortwave—Your Cost..... \$8.40

FOLDED DIPOLE ANTENNA-REFLECTOR

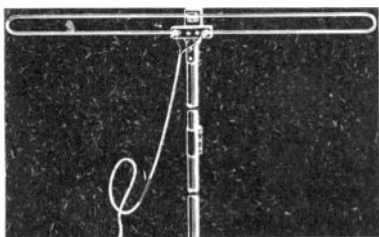
Made up from one Type 621 Folded-Dipole Antenna and one Type 622 Reflector. This is the recommended FM antenna for use in areas of low signal strength, or again in noisy locations where maximum signal pickup is advisable. Its flat characteristic—standing wave ratio less than 3 over entire FM band.

CAT. No. 620. COMBINATION FOLDED DIPOLE AND REFLECTOR.—One No. 621 antenna and one 622 reflector consisting of 2 aluminum reflector rods (one with mounting coupling attached; 1 crossarm with mast clamp attached (steel, heavily enameled); miscellaneous hardware. Shipping Weight: 3 lbs.)

No. 620 Kit—Your Cost..... \$9.30

**FM ANTENNA
COMBINATION ADJUSTABLE ANTENNA AND REFLECTOR.**—Detailed in No. 620

No. 630—Your Cost..... \$9.90



FM FOLDED-DIPOLE ANTENNA

Directional both front and rear—broadside to transmitter. Flat characteristics—standing wave ratio of less than 2.5 over entire FM band. The ideal antenna for areas of low signal strength.

CAT. No. 621. FOLDED-DIPOLE ANTENNA.—Consisting of 1 folded-dipole with terminal block; 1 60' coil of TACO high-frequency 300 ohm transmission line Type 851; 1 5-ft. wood mast; 2 mounting straps and screws for mast; 3 special screw-eyes for high-frequency transmission line; 4 wallboard insulators; complete instructions.

No. 621—Your Cost..... \$6.90

ADJUSTABLE FOLDED DIPOLE ANTENNA.—Consisting of: 1 Antenna with terminal block and shorting bars; mounting bracket; 60 ft. 300 ohm line; 5 ft. mast; 3 screw-eyes; 2 mounting straps; hardware; instruction sheet. Shipping Weight: 6½ lbs.

No. 631—Your Cost..... \$7.20

WARD TELEVISION ANTENNAS

Model TV-88



All metal rust-proofed construction. Very little assembly required. Complete instructions.

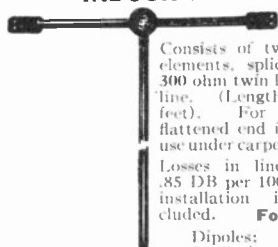
Contents include:—
5 foot metal mast, adjustable base, 60 feet, 300 ohm twin lead, 6 plastic stand-off insulators.
Your Cost..... \$9.00

TV-94

Dipole matched to 300 ohm, adjustable for mounting.

Contents include:—
5 foot steel mast, mounting base, 60 feet 300 ohm. Conduit clamp for mounting installations.
Your Cost..... \$10.44

INDOOR FM ANTENNAS



Consists of two folded dipole elements, spliced to standard 300 ohm twin lead transmission line. (Length of lead-in: 10 feet). For INDOOR use, flattened end insulators permit use under carpet; etc. 55".

Losses in line measure only .85 DB per 100 ft. at 100 MC. installation instructions included. **For FM**

Dipoles: 57 Inches
Insulation: Polyethylene
Freq. Range: 88-108 MC
Cat. No.: 6008

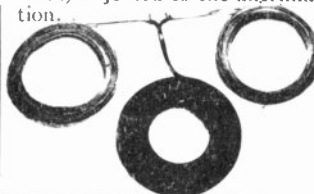
Your Cost..... \$1.56

AMPHENOL TWIN-LEAD FOLDED DIPOLE Amateur Antennas

- 3.5 Mc. ● Rugged
- 7 Mc. ● Perfect match
- 14 Mc. ● Withstands wind, ice loading, etc.
- 28 Mc. ● Copperweld Twin-Lead antenna section
- Packaged, ready for quick assembly

"FIRST" in the amateur field — offers real DX operation

Folded dipole antenna section is Amphenol Twin-Lead No. 14-022... conductors are "copper-clad" steel for strength. The 75 foot lead-in (Amphenol 300 ohm Twin-Lead) is joined to the antenna with a weatherproof molded polyethylene "T" junction.



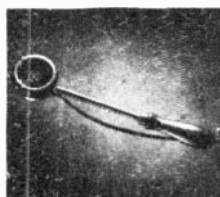
Amphenol Number	Frequency	Band	Antenna Length	Your Cost
139-813	28 Mc.	10 Meters	18 feet	\$ 6.16
139-815	14 Mc.	20 Meters	35 feet	7.68
139-816	7 Mc.	40 Meters	70 feet	10.80
139-817	3.5 Mc.	80 Meters	135 feet	16.60

Note Radio Servicemen: Amphenol Antenna No. 139-816 for the 7 Mc. band may be trimmed to provide top reception on the short wave BCL 9 or 12 Mc. band.

MEET YOUR 'AMATEUR' FRIENDS AT C.E.S.

Brush

CRYSTAL PRODUCTS



HEARING AID LORGNETTE PHONE

Telescope extension from 12" to 17". Attractively finished in satin black. Light weight, easy to handle, and comfortable at the ear.

Single phone complete with 5' cord and lorgnette handle.

BA202 Your Cost \$7.80



COMMUNICATIONS HEAD- PHONES

Developed for COMMUNICATIONS work where light weight, durability, and uniform response are required. High output impedance .008 mtd. (40,000 ohms at 500 cps), response 100 to 10,000 cps.

Headset complete with 5' cord and adjustable lock-type headband.

BJ216 Your Cost \$12.78



HIGH FIDELITY MODEL "A-1"

For use where High Fidelity and extended frequency response are of paramount importance. Especially suited to monitoring, sound measurement, audiometry, and similar exacting headphone applications. Impedance over 80,000 ohms at any frequency.

Headset complete with 5' cord and headband.

A205 Your Cost \$14.40

"UNDER-PILLOW" HUSHATONE SPEAKER

A miniature, molded plastic extension speaker for under pillow use. Disc shaped (1 1/4 dia by 1 1/8" thick). Makes no uncomfortable lump beneath the pillow. Tone quality comparable to cone type speaker because of specially designed plastic diaphragm.

Black with Satin chrome trim. Hushatone with 6' cord.

BA303 Your Cost \$9.75



MODEL "A" GENERAL PURPOSE

Designed for GENERAL PURPOSE applications including laboratory, studio and skilled amateur home use. High impedance ideal for multiple installations.

Headset complete with 5' cord and adjustable lock type headband.

A200 Your Cost \$9.60

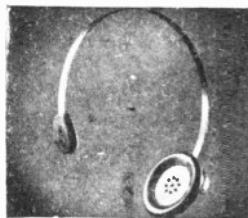


MODEL "A" SINGLE PHONE

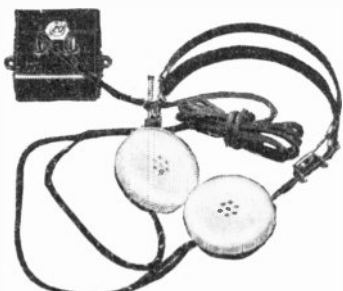
Particularly adapted to individual or group hearing aid, and radio applications. Light weight, good ear seal, and comfortable to wear. Spring steel headband with soft rubber end cushion to eliminate slipping.

Single phone complete with 5' cord and headband.

A202 Your Cost \$5.16



NOW!—MORE RADIO LISTENING PLEASURE. THE "CANNON-BALL"



FOR THE HARD OF HEARING FOR THE WHOLE FAMILY

With Cannon-Ball earphones only switched on, he can enjoy the fight broadcast she doesn't care for; later on, SHE will enjoy her favorite crooner as he reads.

Q. What is the Cannon-Ball?

A. A head-phone set and 3-way switch device. . . easily attached to any radio which permits listening

1—With speaker only.
2—With headset only.
3—With BOTH speaker and headset.

No. CBHA Your Cost
With single earphone \$8.00
With two earphones 9.20

HIGH GRADE HEADSETS



THE "CHIEF" Cannon-Ball Bakelite headset

High grade headset of durable plastic. Sensitive phones. Double coils in each phone. Chrome steel magnets. Supplied with braid covered headband.

CC-2 2000 ohms D.C.

Your Cost... \$3.20

LOW-PRICED QUALITY HEADSETS



THE "BRANDES" Superior matched Tone Headset

Standard and reliable since 1908, Brandes occupy first position among headsets throughout the world. Black lacquered steel headband.

—4 1/2 ft. cord, 2000 ohms D.C.—

Model BS—Your Cost per pair \$2.80

Bakelite Caps for above—

Your Cost each31

CANNON-BALL "GRAND"

The single headset

This single headset is a fine piece of apparatus, equal in volume and clarity of reproduction to most double sets. Aluminum case with bakelite cap. Permanently attached headband of spring steel.

SG-1 1000 ohms D.C.

Your Cost. \$1.48



"DIXIE"

The Old Faithful Cannon-Ball Headset

Low priced, highly efficient and attractive appearance. Aluminum case; black bakelite caps; black steel headband with adjustment.

—4 1/2 ft. cord, 2000 ohms D.C.—

Model CD-2—Your Cost per pair \$2.40

SAVE TIME AND MONEY - DO NOT SPLIT YOUR ORDERS

WIRELESS KEYS



TELEGRAPH INSTRUMENTS

SIGNAL STANDARD KEY



Standard wireless key designed to carry heavy currents. Brass construction, lacquer finish. Furnished with $\frac{1}{4}$, $\frac{1}{4}$ or $\frac{3}{8}$ " coin silver contacts. Navy type key knob. Your Cost
R-63— $\frac{1}{4}$ contacts..... \$4.60

SIGNAL M-100 KEY



For rapid transmitting this key is preferred by skilled operators and beginners. The base, equipped with binding posts, is brass with a lacquer finish. Key lever is nickel plated. Furnished with platinum contact points. Your Cost..... \$3.95

SIGNAL R-48 KEY



Beginner in the field of wireless approves this $\frac{1}{4}$ K.W. Key for its desirability and inexpensiveness. Well made with polished key lever and lacquered parts. Contact points are platinum. Your Cost..... \$3.65

SIGNAL 112-K KEY



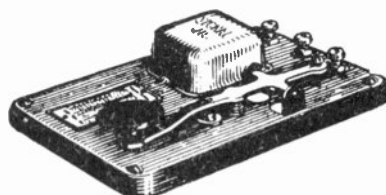
Moderately priced, scientifically correct key designed for beginners. Black enamel metal base and mounted on a mahogany finished wood base. Key lever is nickel plated. Contact points are platinum. Your Cost..... \$3.00

R-50 SIGNAL WIRELESS KEY



For the amateur who wants an inexpensive, high grade wireless key, equipped with a heavy cast, well insulated base in black finish, coin silver contacts, composition knob and nickel parts. Your Cost..... \$1.90

SIGNAL R-69 PRACTICE SET



The R-69 Practice Set is for those who want an inexpensive instrument. Consists of a key lever, non-adjustable buzzer and code plate mounted on a metal base equipped with binding posts and rubber feet. Has maroon finished base and gold lacquered key lever and buzzer cover. Your Cost..... \$3.25

SIGNAL R-70 TWIN PRACTICE SET

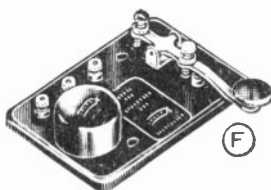


In this practice set is represented value that appeals to the beginner. Set includes two R-69 instruments, 75 feet of wire and an instruction manual packed in an attractive illustrative box. Your Cost..... \$6.85



HIGH SPEED "SEMI-AUTOMATIC" TELEGRAPH KEYS

PRACTICE SET



Consists of one constant frequency adjustable buzzer and a standard hand key with $\frac{1}{8}$ " pure silver contacts mounted on moulded brown bakelite base 6" x 4". Three hook-up diagrams on carton. Standard code card included.

114-450 Your Cost..... \$3.60

BUZZERS



Moulded black bakelite base and cap. Pure silver contacts. Additional adjustment on vibrator. 2 ohms resistance. Operates on two dry cells or one "C" battery.

114-400 Your Cost..... \$1.44

AMATEUR MODEL

Baked black crinkle. Enamel finished base, with rubber non-slip feet. Heavy brass connector strips. Springs of best clock spring. Two adjustable weights, and black fibre paddles. Two sets $\frac{1}{8}$ " pure silver contacts. Deadner wheels, posts, screws, springs and terminals polished nickel plated.

114-515 Your Cost..... \$10.00
114-515L (Left-handed model) Your Cost 12.00

PROFESSIONAL HI-SPEED MODEL

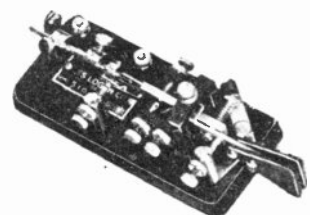
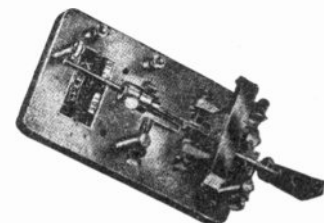
Improved semi-automatic key on extra heavy base, finished in wrinkle enamel mounted on rubber feet. Frame has five adjustments with lock nuts, assuring dependable operation. Vibrator arm, posts, switch and all machined parts satin chromium plated. Complete with two sets $\frac{1}{8}$ " contacts. 501 has all chrome finish.

Your Cost
114-500..... \$14.00
114-500L (Left-handed Model)..... 15.60
114-501..... 20.00
114-501L (Left-handed Model)..... 22.00

NEW JUNIOR MODEL

Black wrinkle base and castings, all machine parts nickel plated. Adjustable to give plenty of pep and life. Will increase the speed of any operation. Two adjustable weights and two paddles, circuit closing switch. Drilled for stationary mounting complete with switch cord and plug.

114-510 Your Cost..... \$10.80



SAVE TIME AND MONEY - DO NOT SPLIT YOUR ORDERS

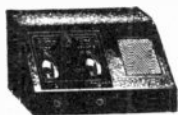
BEGINNER & AMATEUR

Accessories



ICA DELUXE SIGNATONE

AUDIO OSCILLATOR — CODE PRACTICE SET — KEYING MONITOR



No. 4300

The Signatone is a perfected Audio Oscillator, having 3 different output frequencies and a continuously variable volume control.

1. CODE PRACTICE SET — A number of phones and keys may be connected for intercommunication or for classroom.

2. KEYING MONITOR—An invaluable aid in improving any ham's "fist". Will follow the "bug" at all speeds.



No. 4301

3. MODULATION SIGNAL—The steady note of the Signatone is ideal for adjusting both the Modulator and modulated stages of your transmitter for a maximum modulation percentage of not over 100.
4. SIGNAL TRACER—By feeding the Signatone into each stage of your modulator defects and "bugs" can easily be located. Complete with tube and self-contained speaker, for 110 V AC-DC.
No. 4300—Your Cost..... \$16.00
No. 4301—Your Cost..... 12.00

LOOK AT THIS NEW—IMPROVED

Double Set No. 21097
Radio Buzzer-Blinker-Telegraph

A new, easy method to learn Radio Code. Required in Army, Navy, Boy Scouts, Radio, etc.

Operates from 2 self-contained standard Flashlight Cells. Beautiful, new, streamlined Bakelite Case with Code Chart molded in top. Two sets can be connected together and messages sent or received. Packed in individual cartons or in Double Sets with 100 ft. connecting wire. Heavy Pivot Type Key with Adjustable Tension.

No. 1097 Single Set. Your Cost..... \$2.55
No. 21097 Double Set. Your Cost..... 5.60

Priced without Batteries, operates with 2 Flashlight Cells.

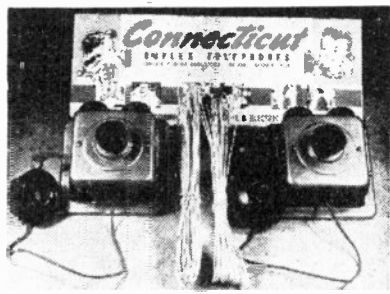


CONNECTICUT DUPLEX TELEPHONES

CONNECTICUT DUPLEX Telephones transmit and receive conversations up to 2,000 feet between house and garage, living quarters to kitchen, bedroom to basement, office to shop and farmhouse to adjoining buildings. Saves time... saves footsteps. It requires only two, three or four No. 6 dry cell batteries at each phone, depending upon the distance between the phones. 100 feet of wire, staples and detailed installation instructions included.

No. 1700W deLuxe Model.

Your Cost..... \$15.75



LEARN CODE THE EASY WAY WITH THE INSTRUCTOGRAPH

"STANDARD" INSTRUCTOGRAPH

As illustrated. Ten code tapes and instruction book complete with the machine. Either electric 110 volt 60 cycle AC motor, or a spring wound motor.

Your
Cost

Electric motor..... \$55.00
Spring motor..... 42.50

"JUNIOR" INSTRUCTOGRAPH

Similar to the model featured above. The difference being in size and construction. Enclosed in an attractive case, built for years of usefulness. Five tapes and a book of instructions supplied with this machine. Spring wound motor only.

Your Cost..... \$32.00
Extra Set of Tapes..... 1.50



This automatic code transmitter affords the easiest and quickest method, yet devised, of teaching code.

The instructograph can send code at any desired speed. It enables anyone to learn morse without the aid of an instructor.

CRYSTALS, DETECTORS, AND CATSWHISKERS

Open Detector



Complete with crystal holder, cat whisker, and spring clip terminals. Handsome polished metal finish.

Your Cost..... \$0.30

Fixed Detector



Made to withstand high voltage. Selected crystals are meter-tested and permanently fixed.

Your Cost..... \$0.68

GLASS ENCLOSED CRYSTAL DETECTOR



Dust proof detector containing supersensitive crystal. Fixed at factory, but delicately adjustable at all times.

Your Cost..... \$0.41

Unmounted Detector



Includes stand, crystal cup, arm with catwhisker, all assembled complete with screws necessary for mounting.

Your Cost.. \$0.17

Crystal on Display Card



Mounted Galena crystal on display card or individually boxed.

Your Cost..... \$0.11

Catwhiskers on Display Card



Your Cost..... \$0.06

PHONE AND SPEAKER CORDS



Your Cost

Single phone cords..... \$0.25
Double phone cords..... .42
10-foot extension cords..... .40
20-foot extension cords..... .60

EAR CUSHIONS



Made of soft rubber. Ideal for the amateur wireless operator, etc. Used by all leading air lines.

No. 195 Your Cost..... \$0.88

C.E.S. FOR EVERYTHING IN TRANSMITTING EQUIPMENT

RCA VICTOR SERVICE MANUAL

Vol. No. 1—1929-39	.....	\$1.50
Vol. No. 2—1939-40	.....	1.50
Vol. No. 3—1941-42	.....	1.50

Your Cost

Genuine RCA Victor replacement parts, are the work of expert craftsmen, and technical experience over a long period of time. They are quality products that serve the purpose for which they are designed to the maximum of efficiency. There is **no satisfactory substitute for RCA Victor genuine replacement parts.** For speedier service, order your Victor parts by number, according to the chart provided below.

Model	Vol. Control	Tone Control	Speaker Cone	Filter Pack or H.V. Capacitor	Model	Vol. Control	Tone Control	Speaker Cone	Filter Pack or H.V. Capacitor
Ace	33631		S-2375	S-2615	Little Nipper	S-2426		S-2427	S-2421
A-1	33631	33630X	S-2375	32342	L.M.	70322		S-3516	70408
A-2	33776	33630X	31275	32240	L.M.-A	70322		S-4204	70408
A-3	S-2536	S-2584X	35441	36675	Mascot	33631		S-2375	S-2615
A-4	S-2536	S-2584X	31275	36675	Master	38410		S-3516	70408
A-5	S-2536	33424X	35441	32240	Master Nipper	S-2774		35066	35348
A-6	S-2536	S-2584X	31275	36675	M-34	6499	11411X	8987	7600*
A-8	S-2631	S-2627X	31275	31753	M-45	S-3095		32904	32240
A-10	S-2536	S-2584X	31275	36675	M-46	S-3295	S-3285X	35441	32240
A-20	S-2671	S-2670	32904	32240	M-47A	S-2905	S-2891	35441	32240
A-21	33631	S-2826X	S-2375	S-2822	M-104	5018	5001X	9602	11132
A-22	S-2905	S-2891	35441	32204	M-105	6499	11411X	8987	7600*
A-23	S-3095	33634X	32904		M-108	5018	5001X	9602	11132
A-24	S-3295	S-3285X	35441	32240	M-109	5018	5072	9598	5069
A-25	S-2905	S-2891	35441	S-2925	M-116	6746	6747	8987	6897
A-30	S-2906	S-2892	31275	33014	M-123	6964	6971	9428	7758*
A-31	S-2906	S-2892	31275	32240	Nipperette	S-2751		S-2427	33303
A-32	S-2906	S-2892	31275	S-2925	Nipperette A	S-2751		S-3386	S-3221
A-33	S-3006	S-3014	S-3030	35016	Pick-Me-Up	33304		S-2643	33303
A-34	33776	S-2826X	31275	32240	Portette	32594		32163	32187
A-36	S-3150	S-3153X	31275	32240	Q-22	35620	35629	35441	33014
A-37	S-2906	S-2892	31275	33014	QU-8	37195	37197	37310	32342
A-38	S-2906	S-2892	31275	S-2925	Royal	31637		35913	32240
A-39	S-2906	S-2892	31275	S-2925	R-6	2995	S-1033	8601	11203
A660	S-3890		S-3907	S-3131	R-7	2995	2996	8601	11203
A660C	S-3890		S-3907	S-3131	R-7A	2995	3093	8601	11203
ACR136	38703	4517	9492		R-8	2995	2996	8601	11203
B-1	S-2401		35441	S-2408	R-8A	2995	3093	8601	11203
B-2	S-2556	S-2559X	S-2565	S-2552	R-9	2995	2996	8601	11203
B-3	S-2556	S-2559X	S-2563	S-2552	R-9A	2995	3093	8601	11203
B-4	S-2557	S-2559X	S-2565	S-2552	R-10	163		181	
B-5	S-2557	S-2559X	S-2563	S-2552	R-12	3092	3093	8601	7269
B-60	S-2734	S-2699X	35441	S-2408	R-15	7129		8601	8614*
B-61	36063	S-2975	32934	33790	R-16	7129		8601	8614*
B-62	S-2669		S-2375	32187	R-20	3142	3143	8601	8751
B-63	S-3181	S-3153X	S-3188	33790	R-21	3142	3143	8558	8751
B-64	S-3254		S-32904	32187	R-22	33746	14764	9841	8910
B-67	36063	S-2975	35441	33790	R-22A	33746	14764	9841	8910
B-70	36063	36062	S-2565	33790	R-28	6465	6466X	8987	11203
B-417	S-3495		35440	S-3221	R-29	6465	6466X	8987	11203
B-418	S-3181		35570	28114	R-29A	6465	6466X	8987	11203
BC-4-1	S-1521		S-1532	S-1533	R-30	7260	7260	8601	11203
BC-4-2	S-1624		S-1532	S-1533	R-31	6559	S-1348X	8969	11203
BC-6-1	4519	S-1581X	S-1446	S-1582	R-32	10450	10408	10801	10419
BC-7-1	4519	4536	S-1446	4498	RE-33	6465	6466X	8987	11203
BP4	70439			36718	R-34	10450	10408	10801	10419
BP6	71057		S-3516	71043	R-35	10826	10813	8558	10909
BP-10	36495		39467	36718	R-37	6485	6486	9428	6487
BP-10A	36495		39467	36718	RE-37	2995	3093	8601	S-1056
BT4-1	S-1521		S-1530	S-1533	R-39	10826	10813	8558	10909
BT4-2	S-1624		S-1530	S-1533	RE-40	10826	10813	8558	10909
BT6-1	4519	S-1581X	9539	S-1582	RE-41	3092	3093	8601	7269
BT7-1	4519	4536	9539	4498	RE-45	10450	10408	10801	10419
BT40	S-3530		S-3569	S-3221	RE-46	10450	10408	10801	10419
BT44	S-3530		S-3569	S-3221	R-48	6372	6307	8969	S-1259
BT42	S-3530		S-3569	S-3221	R-49	6594	6486	8969	11203
BT60	S-4234		S-3867	28114	R-50	6322	6307	8969	S-1272
Clipper	35550		35441	S-3131	R-52	6322	6307	8969	S-1272
Commander	32978	32978	S-2505	32240	R-53	6369	6370	8969	7564
Cruiser	33393		33462	32240	R-54	6322	7522	8969	7513
C5-1	4429	5052X	8969	11203	R-56	6322	7522	8969	7513
C5-2	4429	5052X	11258	11203	RE-57	10826	10813	8558	10909
C5-3	4429	5052X	11258	11203	RAE-59	3142	3143	8558	8751
C6-1	4429	5052X	11258	11203	R-67	6328	6329	8921	7525
C6-2	4429	5052X	11258	11203	R-68	6328	6329	8921	7525
C6-3	11237	13664	11258	11203	RE-80	6369	6370	8969	7564
C6-4	11237	13664	11258	11203	RE-81	6322	7522	8969	7513
C7-1	11237	11392X	11258	11203	R-87	6714	6716X	9428	6548
C8-15	11237	11238	11258	11203	R-88	6714	6716X	8969	6548
C8-16	11237	11238	11258	11203	R-90	6447	6449	8969	11203
CT0-1	11205	11219	8056	11203	R-93	4502			
CT0-2	11205	11219	8056	11203	R-93A	S-1917			
CT1-1	11205	5222	8056	11203	R-93C	31052			
CT1-4	5223	5222	8056	11203	R-93E	31052			
CV-8				13046	R-93X	4502			
CV-10				S-3221	R-94B	31194			
CV-12				39846	R-95	S-1705		31310	11203
Duette	S-2816		S-2802	S-2794	R-96	S-2333		31310	S-2329
Duo	S-2816		32904	S-3298	R-96A	S-2333		31310	S-2329
D7-7	11237	11392X	11258	11203	R-97	S-2333	33634X	S-3311	32240
D8-1	11237	11238	11258	11203	R-101	6667	6669X	8987	6661
D10-1	11205	11219	8056	11203	R-104	2995	S-1033	8601	S-1003
D10-2	11205	11219	8056	11203	R-105	2995	S-1033	8601	S-1003
D22-1	5223	5222	8056	11203	R-106	6667	6669X	8987	6661
Imperial	32978	32987	33017	32240	R-107	3092	S-1033	8601	S-1042

*Capacitor Pack Assembly. X Tone Control Switch. \$Vibrator Transformer.
Where same number is shown for volume and tone controls, this indicates dual control

INSIST ON GENUINE RCA VICTOR REPLACEMENT PARTS



GENUINE FACTORY PARTS

Model	Vol. Control	Tone Control	Speaker Cone	Filter Pack or H.V. Capacitor	Model	Vol. Control	Tone Control	Speaker Cone	Filter Pack or H.V. Capacitor
R-109	3092	3093	8601	7269	8T-2	13144	12668	31310	11203
RO-112	3092	S-1043	8601	S 1042	8U	13114	12668	31275	11203
T-1	0667	6669X	9588	6661	9K-1	12861	12921	31275	31753
T-2	11663	.....	9588	11203	9L-1	12861	12921	31310	31753
T-2X	11663	.....	9588	11203	9U-2	12861	12860	31275	31753
T-5-1	4129	5052X	9588	11203	10K-1	12861	12979	13291	31753
T-5-2	4129	5052X	11235	11203	15K-1	13014	13015	12474	11203
T-6-1	4129	5052X	11235	11203	15U	12861	13616	12474	31753
T-6-2	11237	13664	11235	11203	50	S-3727	S 3938	S-3867	S 3720
T-7-1	11237	11392X	11235	11203	54B5	72228	.....	.....	36718
T-8-14	11237	11238	11235	11203	54X	S-4305	.....	S-4309	70408
T-146	35023	35022	14602	35016	60	36242	36228X	.....	39152
T-150	33409	33409	S-2020	32485*	62	S-3725	S 3724	S-4253	S 3720
T-160	31366	31366	S-2020	32485*	65BR9	38405	.....	.....	72077
T-160A	31366	31366	31275	32485*	67M	13420	.....	13703	13687
T-170	31366	31366	31310	14814	67M-2	13711	.....	13703	12234
T-101	14826	.....	31310	11203	80	S 3665	.....	S-3674	36718
T-102	S 1835	S 1836	31310	11203	81	S-4224	.....	S 3568	36718
T-103	S 1835	S 1836	31310	11203	84BT-1	S 2013	.....	S-1731	S-1582
T-106	14597	S 1794	31275	31753	84L-1	S-1773	.....	S-1677	11203
T-108	14597	S-1794	31275	31753	85BK	14400	.....	S-1777	11403
T-129	31249	31248	31275	31495	85BK 1	S 1706	.....	S-1756	S 1582
T-160	31682	31684X	31721	11203	85BT 1	14400	.....	S-1777	14403
Vikortette	S 2318	.....	S 2320	S 2302	85BT 1	S 1706	.....	S 1755	S 1582
Vikorphone	31966	.....	S 1907	.....	85K	S-1835	.....	1836	31310
V-1	31052	.....	.....	.....	85KA	S-1827	.....	1828	31310
V-2	31194	.....	.....	.....	85L-1	S-1827	.....	1828	11203
V-3	S-2612	.....	.....	.....	85L-2	S-1835	.....	1836	11203
V-3A	S-2612	.....	.....	.....	86BK	14345	.....	1779	S 1787
V-4	31108	.....	.....	.....	86BT	14335	.....	1779	S-1777
V-4A	31108	.....	.....	.....	86K	14335	.....	1801	31275
V-4X	.....	.....	.....	.....	86L	14335	.....	1801	S-1820
V-5-1	S-3268	.....	.....	.....	87E, 87K	14335	.....	1801	31275
V-5A	S 3268	.....	.....	.....	88K	11335	.....	1794	31275
V-6-1	.....	.....	.....	.....	88T	14335	.....	1801	31310
V-11	S 3268	.....	.....	11387	91BT	S-2013	.....	S 2040	S 2028
V-16	3691	.....	.....	.....	91BT 1	30917	.....	.....	32163
V-26	3522	.....	.....	.....	91T	S-2068	.....	.....	S-1677
V-84B	3158	.....	.....	.....	95BK	14400	.....	S 1779	S-2096
V-15	3495	.....	.....	.....	95BK 6	14400	.....	S 1779	S-2096
V-22	31108	.....	.....	.....	95BT	14400	.....	S 1779	S-2096
V-23	S 3495	.....	.....	.....	95BT 6	14400	.....	S 1779	S-2096
V-34	3881	.....	.....	.....	95K	31366	.....	31366	31275
V-20	3559	.....	S 3867	S 3558	95L-2	31366	.....	31366	S 2020
V-22	3193	.....	S-3867	S-3558	96BT	S-2114	.....	S 2112	S 2020
V-66D	71596	38402 L.F.	S 1299	71976	96K	31366	.....	31366	31275
VR-1	S 2536	33121X	35441	32240	96L-1	31413	.....	31413	31176
VR-2	S 2536	33121X	31275	32240	96T	31366	.....	31366	S 2020
VR-3	S 2318	S 2419X	S 2375	32240	97BK	S 1996	.....	S 2138	S-2125
VR-4	S 2536	33421X	31275	32240	97BK 6	S 1996	.....	S 2138	S-2125
VR-6	S 2536	33421X	31275	32240	97E, K 1, KG	31366	.....	31366	31275
VR-8, 8A, 8L, 8S	31150	31248	31275	S 2442	97K	30743	.....	30743	30577
VR-10, VR 10S	31150	31248	31275	S 2442	97T	30743	.....	30743	30577
VR-10	S 2774	.....	35066	S 2421	97T-1	31366	.....	31366	S 2020
VR-11	S 2908	.....	35441	S 3069	98K	31150	.....	31248	31275
VR-12	S 2870	.....	35441	32240	98KS	S 1996	.....	S 1995	31275
VR-14	S 3150	.....	S 3311	32240	106	6667	.....	6669X	8987
VR-50	33776	.....	31275	32240	115	6465	.....	6466X	8987
VR-51	33776	.....	31275	32240	117	4429	.....	5052X	9588
VR-52	S 2906	.....	31275	32240	118	4129	.....	4126X	9428
VR-54	.....	.....	31275	S 2925	119	4429	.....	4905X	9588
VR-58, 59, 60	S 3150	.....	31275	32240	121	S 3619	.....	S 3619	S-3589
VR-61	S 2906	.....	31275	S 2925	122	6695	.....	6705	9428
VR-62, VR-63	S 2906	.....	36145	35017	126B	6695	.....	6669X	9428
VR-145	S 2998	.....	35141	32240	128	4519	.....	4517	9428
VR-146	S 3150	.....	31275	32240	129	4519	.....	4517	9428
VR-245	S 3150	.....	S 3311	32240	135B	4519	.....	4536	9539
VR-45	S 3150	.....	31275	32240	140	6612	.....	6627	8969
VR-55	S 3505	.....	S 2565	32240	141	6612	.....	6892	8969
VR-56	S 3505	.....	S 3867	32240	143	4519	.....	4616	S-1482
VR-57	S 3505	.....	S 4258	32240	210	6559	.....	S-1348X	8969
VR-101C	S 1224	.....	S 4258	32240	211	4429	.....	4426X	8969
VR-101M	S 1224	.....	S 4258	32240	214	1429	.....	5052X	8969
VR-121	S 3619	.....	S 3589	36599	221	6695	.....	S 1391	8969
VR-241	S 2906	.....	36145	35017	222	6682	.....	6681	8969
VR-249	S 2906	.....	31275	32240	223B	6695	.....	6669X	9428
5K-1	11247	12668	31275	11203	224, 226	4519	.....	4517	8969
5K-2	13114	12668	31310	11203	230	6594	.....	6486	8969
5M	12365	12219	12451	12234	235B	4519	.....	4536	S-1446
5T-1	S 1688	S-1687	S 1677	11203	242	4519	.....	4616	8969
5T-3	11237	12668	31310	11203	262	4832	.....	4830	8969
5T5, 5U	13114	12668	31310	11203	280	6447	.....	6449	8969
6B-2	S 2557	S 2559X	S 2565	S-2551*	281	7798	.....	7797	7000
6B-3	S 2557	S 2559X	S 2565	S 2551*	321	6695	.....	S-1391	8969
6B-4	S 2557	S 2559X	S 2565	S 2551*	331	6485	.....	6559	8969
6B-5	S 2557	S 2559X	S 2565	S 2551*	340	6612	.....	6892	8969
6M	12210	12219	12451	12234	340A	4519	.....	4616	8969
6M 2	12210	12219	12451	12234	381	7798	.....	7797	7000
8K-1	13144	12668	31275	11203	810K	14335	.....	S-1794	31275
8M	30628	.....	30782	30634	812K	12861	.....	14602	31753
8M-1	13420	.....	30797	30797	816K	12861	.....	14703	31753
8M 3	13711	12219	12451	30828	911K, KG, K8	31450	.....	31248	31275
					916HF	31682	.....	31684X	31721

*Capacitor Pack Assembly. X Tone Control Switch.
Where some number is shown for volume and tone controls, this indicates dual control.

MONTREAL — CANADIAN ELECTRICAL SUPPLY CO. LTD. — TORONTO

CROSS REFERENCE C.G.E. to RCA VICTOR MODELS

C.G.E.	Victor	C.G.E.	Victor	C.G.E.	Victor	C.G.E.	Victor	C.G.E.	Victor	C.G.E.	Victor
A-43	T4-1	F-52A	85TA	H-52	Nipper	K-52	R-29	KM-7	----	H-67B	----
A-44	T4-2	F-57	85K	H-53	A-1	K-53	R-29	KM-52	----	H-67VB	----
A-44-X	T4-2X	F-57A	85KA	H-61	A-5	K-53L	R-29A	KM-67	----	H71B	B5
A-50	T5-1	F-62	86T	H-66	A-2	K-53M	115	KM-70	M47A	H71VB	6B5
A-54	T5-2	F-66	86K	H-70	A-3	K-57	RE-33	KM76	----	H76B	B4
A-55	C5-1	F-71	97T	H-72	RAE-59	K-59	R-31	M-41	101	H76VB	6B4
A-55Z	C5-1	F-75	87K	H-76	A-4	K-60	R-37	M-42	106	JB83	R67
A-58	C5-2	F-76	87E	H-77	----	K-62	R-12	M-50	117	JB87	R68
A-63	T6-1	F-77	97K	H-86	A-6	K-64	122	M-51	118	JK4B	B62
A-64	T6-2	F-82	88T	H-116	A-8	K-75	R-49	M-51A	118	JK4BP	----
A-68	C6-1	F-87	88K	J-72	R-47	K-79	RAE-331	M-52	119	JK40B	Nipperette
A-69	C6-3	F-87A	----	J-76	R-48	K-80	141	M-55	214	JK44BP	BP10
A-69V	C6-4	F-88	98KS	J-82	R-50	K-85	140	M-55A	214	JK5BP	Duette
A-70	T-71	F-107	810K	J-85	R-107	K-106	R-90	M-56	211	JK6B	B60
A-75	C7-1	F-127	812K	J-86	R-52	K-126	280	M-56A	211	JK60B	B61
A-82	T8-14	F-167	816K	J-105	R-54	KL-5	VR-44	M-61	128	JK66B	B70
A-87	C8-15	G-40	94T	J-107	R-56	KL-6	VR-58	M-62	129	K8B	R87
A-87V	C8-16	G-51	95T-2	J-125	R-22	KL-7	VR-60	M-64	122	K8CB	R88
A-108	C10-1	G-57	95K	JC-835	RO-112	KL-9	VR-61	M-65	221	KL4B	B-64
A-128	C12-1	G-60	96T-1	JK-50	ACE	KL-50	Mascot	M-67	224	KL6BP	Duo
A-148	C14-1	G-62	96T	JK-51	M-Nipper	KL-51	M-Nipper	M-69	226	KL40B	Nipperette A
E-50	5T-1	G-66	96K	JK-52	L-Nipper	KL-52	Nipper	M-77	230	KL44BP	BP10A
R-53	5T-3	G-71 (See also F-71)	97T	JK-53	A-20	KL-53	A-20	M-81	143	KL41B	B-63
E-53X	4T-5	G-76	97E	JK-54	A-21	KL-56	A-36	M-86	242	KL60B	B-67
E-56	5K-1	G-77	97K-1	JK-55	A-34	KL-60	A-24	M-106	262	L6B	126B
E-56X	5K-2	G-88X	98K	JK-66	A-30	KL-66	A-37	M-107	262	L6CB	123B
E-81	8T-2	G-88X	98K	JK-70	A-22	KL-67	A-37	M-125	281	M7B	135B
E-86	8K-1	G-88X	----	JK-76	A-31	KL-70	A-25	S-22	R-7	M7CB	235B
E-89	8U	G-117	911K	JK-96	A-32	KL-76	A-38	S-22A	R-7A	S42B	R-30
E-98	9K-1	G-167	916HF	JK-116	A-33	KL-96	A-39	S-25	R-6	----	----
E-106	10K-1	H-31	RE-57	K-5	VR-41	KL-500	A-23	S-42	R-9	----	----
E-157	15K-1	H-32	R-20	K-7	VR-51	KL-14	VR-63	T-41	R-15	----	----
F-40	84T-3	H-50	Victorette	K-9	VR-52	KM-5	VR-245	H-66B	B2	----	----
F-52	85T-2	H-51	----	K-50	R-28	KM-6	VR-146	H-66VB	6B2	----	----

BATTERY MODELS

C.G.F.	Victor	C.G.E.	Victor	C.G.E.	Victor	C.G.E.	Victor	C.G.E.	Victor	C.G.E.	Victor
A4-B	BT4-1	E-4-CB	BC4-2	F-5-CB	85BK-1	G4B	94BT	H4B	94BT1	H61B	B3
A4-CB	BC4-1	E-6-B	BT6-1	F-55B	85BT	G5B	95BT	H4BP	Portette	H61VB	6B3
A-7-B	BT7-1	E-6-CB	BC6-1	F-55CB	85BK	G5CB	95BK	H41B	----	H62B	----
A-7-CB	BC7-1	F-4-B	84BT-1	F6B	86BT	G6B	96BT	H41BP	Pick-me up	H62VB	----
E-4-B	BT4-2	F-5-B	85BT-1	F6CB	86BK	G7CB	97BK	H6B	B1	----	----

AUTOMOBILE RECEIVERS

C.G.E.	Victor	C.G.E.	Victor	C.G.E.	Victor	C.G.E.	Victor	C.G.E.	Victor
B-40	M-34	D-72	M-109	KL7M	Commander	M-60	67M	Record Players	
B-52	M-116	H5M	Royal	KL5M	Clipper	M-60 2	67M2	R90G	V-3
C-41	M-105	H7M	Imperial	KM5M	Clipper	M-68	8M-1	R93AG	V-5
C-61	123	K6M	Cruiser	KM7M	----	M-69	8M3	R93C	R93C
D-51	M-104	K7M	Commander	M-58	8M	N-51	6-M	R93G	V-1
								R94G	V-4
								Miscellaneous	
								Handy	Victor
								phone	phone
								M100	CV-8
								M149	CV-10
								10V	V6-1

WESTINGHOUSE CARBON TYPE TONE AND VOLUME CONTROLS

Part No.	Model of Receivers	List Price	Part No.	Model of Receivers	List Price	Part No.	Model of Receivers	List Price
A-3941	69, 79, 79A, 89, 930	\$1.80	K-65982-4	103	\$1.32	594973-5	675X, 665, 667	\$1.40
A-4770	931, 101, 110, 301, 591, 593, 600, 610, 589, 235	1.80	K-65982-8	124	1.32		683X	1.54
A-5663	410	3.15	H-32432	155-254	2.04	594973-6	B774, 981	1.54
S-1154-1A	255, 469	1.15	H-30544	64-634	1.76	594973-7	684A, 684X	1.54
S-1313-1A	57	1.25	K-69461-5	155-185	1.76	595087-1	B460A	1.65
S-1585A	59, 79, 241RP	1.20	H-29517	102	1.76	595087-2	B461A	1.76
S-1607A	99, 129	1.20	P-163	70	1.32	595087-4	B466	1.65
S-1533-3A	4640, 4740, 4641	1.20	K-69109	73	1.76	595177-1	B562	1.54
S-1533-6A	4741	1.20	H-33401	B285	1.32	595177-2	B763A	1.54
S-1533-7A	4841, 4642, 5642	1.20	H-33563	195, 295	1.32	595177-3	B763X	1.54
S-1614-1A	5040, 5041	.85	D-592276-1	54	2.04	595177-4	B764X	1.54
S-1661-3A	5341XS, 5342, 5542, 6142	1.50	H-36090	1516	1.93	595178-1	552, 560	1.76
S-1533A	5940	1.20	H-36080	B718	1.76	595178-2	553A	1.76
S-1814-1A	6042	.85	H-36344	B624	1.76	595178-3	577A	1.76
27AR12	4648	1.10	H-38171	1230	1.93	595490-1	1156, 1182	1.76
27AR1	5048, 5148	1.10	K-69564-4	84	1.76	595654-1	558A	2.42
27AR2	6148K	1.10	K-65982-6	124	1.76	595654-2	665A, 665B, 665X	2.42
H-29364	53-533	1.60	H-37865	428	1.65	595654-3	683	2.91
H-36227	410	1.76	H-36266	512, 622, 813, 823, 465	1.76	595769-1	B470	1.65
H-29352	122A	1.76	H-38152	1029	1.76	595958-1	555	1.32
K-67656-1	103	3.03	H-38153	1015, 1029	1.98	595958-2	B471	1.32
K-69623-2	B64	1.32	H-36086	914	1.98	595958-3	556	1.32
H-23629	90-110	.90	H-36088	1516	2.20	596023-1	B572A	2.20
H-23681	71	.80	K-65469-2	103	1.76	596072-1	981	2.42
H-23725	101	1.00	P-90918	W80	3.38	594526-1	531, 532, 535	1.54
H-29249	82-102	1.32	H-29556	61, 71, 81	3.58	594526-3	B541	1.54
H-29250	82-102	1.00	M-39110	WS-5, 551	1.32	594526-4	650	1.10
K-6992	832	1.32	594508-1	531, 532, 535	1.10	594526-5	754A	1.54
H-33511	255	1.76	594613-1	636	2.20	594526-6	754C, 757X, 780Y, 780X, 785N, 955	1.54
H-33564	195-295	1.32	594613-2	B742, B743	2.42	594526-7	B763A	1.10
H-34452	512	1.32	594613-3	837	2.42	594526-8	B763X	1.10
H-36089	1015	1.93	594973-2	650, 651, 886A	1.40			
H-38151	1029	1.32	594973-3	553X	1.54			
			594973-4	754X	1.54			

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NOTE.—Owing to limited space we are unable to list all factory parts—however, we carry a complete stock of all genuine factory replacement parts.

CHASSIS MODEL	Volume Control		Tone Control		Speaker Cones		CHASSIS MODEL	Volume Control		Tone Control		Speaker Cones	
	Part No.	List Price	Part No.	List Price	Part No.	List Price		Part No.	List Price	Part No.	List Price	Part No.	List Price
20.....	12540	\$1.65	12541	\$1.65	9508	\$6.95	8R932						
21.....	12540	1.65	12541	1.65	Sample Necessary		7R631, 7R732,	13781	\$1.65	13782	\$2.00	9579	\$3.30
23.....	12721	2.00	12541	1.65	4831	2.30	7R633						
24.....	12888	1.65	12889	2.00	4831	2.30	7R632	13997	1.65	13996	2.00	9504	2.55
26, 28, 30.....	12872	1.65	12853	2.00			7R634	13997	1.65	13996	2.00	9579	3.30
27.....	12852	1.65	12853	2.00	9504C	2.55	7R731	13781	1.65	13782	2.00	9504	2.55
29, 31.....	12952	2.00	12953	1.65	4831	2.30	7R1231, 7R1232	14065	1.65	14169	2.00	9589	3.65
33, 34.....	13072	1.65	13047	1.65	9512	2.30	7R1132, 8R1232						
371.....	11227	2.00					8R1432						
451, 551.....	3214	2.00					8R512	14522	1.65	14523	2.00	9615	1.65
460.....	11202	1.65	11152	2.00			8R623	14597	1.65	14598	2.00	9615	1.65
561.....	10836	1.65	10837	2.00			8R723T	14597	1.65	14598	2.00	9504	2.55
562.....	11099	2.00	11117	1.65			8R651	13812	2.00			631-9611	2.20
563.....	11132 T	2.00	11117 T	1.65								87-9609	2.30
	11133C	2.00	11134C	1.65			8R661, 8R662,	13781	1.65	1st-13899	2.00	512-9563	2.20
	3127	1.65					8R771, 8R772			2nd-14297	2.00	87-9609	2.30
640, 641, 642.....												107-9614	3.65
645, 646, 840.....	3214	2.00	3212	2.00			8R721T						
741, 742.....	3037	1.65			3062 for 741	10.70	8R821T	14597	1.65	14598	2.00	9579	3.30
	3038D	3.00					8R822T						
771, 772.....	11192 for 771	1.65	11193 for 771	2.00			8R722, 8R723C	14597	1.65	14598	2.00	9627	4.00
	11198 for 772	1.65	11199 for 772	2.00			8R821C						
772A.....	11198	1.65	11199	2.00			8R822C						
861.....	10838	2.00	10839	2.00			8R991, 8R992						
951.....	3381	2.00	3212	2.00			8R1091, 8R1092	14597	1.65	14936	2.00	9631	4.65
1161, 1162.....	10838	1.65	10907 for 1161	2.00			8R1191	14597	1.65	14936	2.00	9638	4.00
			10908 for 1162	2.00			9R451	15172	2.00			9563	2.00
4421, 4422, 4423.....	11707	1.65	11713	2.00			9R551	14964	2.00			9563	2.00
4424, 4521.....							9R661, 9R662	15240	2.65	15240	2.65	9563T	2.00
4511, 4513.....	11705	2.00	11714	1.65								9656C	2.30
4512, 4514.....	11706	2.00	11745	1.65			9R452	50, 58T	2.00			9676S	2.00
4621, 4622.....	11708	1.65	11715	2.00			9R454	50, 59A	2.00			9677R	2.00
4624.....	11981	1.65	11980	2.00			9R453	50, 60	2.00			9677	2.00
4821, 4822.....	11707	1.65	Low				9R511	15190	3.00			9615	1.65
			High				9R512	15286	2.00			9657	1.65
			11716	1.65			9R513	15544	3.00			9660	1.65
			11717	2.00			9R521			15240	2.65	9615	1.65
			11715	2.00			9R522			15240	2.65	9663	2.30
5525, 5725, 5726.....	11708	1.65					9R621			15240	2.65	9666	3.65
R 136.....	506-004	1.75			041-004	5.00	9R791, 9R891	15295	3.00			9666	3.65
R 147.....	506-012	3.00			041-028	9.00	9R991	15526	3.00			9666	3.65
R 156A.....	506-001	3.00			041-001	5.00	9R1091	15526	3.00			9672	3.65
R 166.....	506-007	1.75			041-027	5.00	9R523-9R524	15664	3.00			9615T	1.65
R 167.....	506-002	2.00			041-020	5.00						9663C	2.30
R 176.....	506-007	1.75			041-027	5.00	10R511	14730	1.65	12853	2.00	9615	1.65
R 186.....	506-003	3.00			041-010	8.00	10R512	15551	2.00			9679	1.65
R 187.....	506-012	2.00			041-029	7.50	10R591-10R691	15295	3.00			9710T	2.00
R 207.....	506-012	3.00			041-029	7.50						9707C	3.15
R 217.....	506-012	3.00			041-028	9.00	10R792	15780	3.00			9707	3.15
R 227.....	506-012	3.00			041-028	9.00	10R791						
R 237.....	506-009	3.00			041-030	10.00	10R721	15799	3.00			9663	2.30
R 257.....	506-014	2.00			041-033	12.50	10RA511						
R 266.....	506-001	3.00			041-001	5.00	10RA512	15890	2.00			9679	1.65
R 320.....	506-008	3.00			041-017	10.00	10RA513					9615	1.65
R 336.....	506-005	3.00			041-017	10.00	10RA514	16297	2.00				
R 377.....	25A571		85C056		85C056		10RA515					9735	1.65
R 406.....	506-002	3.00			041-002	5.00	10RA516	16454	2.00			9735	1.65
R 437.....	506-002	3.00			041-027	5.00	10RA517	16474	2.00			9615	1.65
6R411, 6R412.....	13682	2.00			9553	1.65	10RA522	15972	3.00				
6R511.....	13190	1.65	13191	2.00	9504	2.55	10RA523	16262	3.00			9663	2.30
6R531.....	12852	1.65	12853	2.00	9504T	2.55	10RA561C					9615 T	1.65
					9521C	3.65	10RA761					9734 T	2.90
6R631, 6R632.....	12852	1.65	12853	2.00	9521T	3.65	10RA762C	16359				9723C	2.30
					9528C	4.95	10RA763					9723	2.30
6R731.....	12852	1.65	12853	2.00	9548	3.30	10RA766	16359					
6R931, 6R932.....	13402	2.00	13400	1.65	9551	3.30	10RB661-2	16279	3.00	16279	3.00	9718C	2.00
6R1031, 6R1131.....	13402	2.00	13400	1.65	9545	7.95	10RA861-2	16413	3.00	16413	3.00	9723	2.30
6R1331, 6R1332.....	13466	2.00	13400	1.65	9545	7.95	10RB662-2	16307	3.00	16307	3.00	9720C	2.30
7R561.....	13781	1.65	13898	2.00	9569	3.65	10RA961	16414	3.00	16414	3.00	9723	2.30
7R562.....	13781	1.65	13898	2.00	9563	2.00	10RA1061	16414	3.00	16414	3.00	9723	2.30
7R771.....	13781	1.65	13899	2.00	9570	3.65	10RA1071	14597	1.65	14936	2.00		
7R772.....	13781	1.65	13899	2.00	9560	3.30	10RA1361	15100	1.65	14936	2.00	9641	8.60
7R612, 7R613.....	13781	1.65	13782	2.00	9595	2.00	10RA1471	15100	1.65	14936	2.00		
7R621.....	13781	1.65	13782	2.00	9504	2.55	11RA511	16645	3.00	16645	3.00	9750	1.45
7R622.....	13997	1.65	13996	2.00	9585	3.60	11RA521	16625	3.00	16625	3.00	9750	1.45
7R831, 7R832.....							11RA651	16359	3.00	16359	3.00		
7R931, 7R932.....							11RA751	16413	3.00	16413	3.00		
							11RA951	16413	3.00	16413	3.00		

C.—Console T.—Mantel.



ROGERS
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DEFOREST CROSLLEY REPLACEMENT PARTS GUIDE

NOTE. Send us your orders for all manufacturers' genuine factory parts. We carry complete stocks at all times.

MODEL	Volume Control		Tone Control		Speaker Cones		MODEL	Volume Control		Tone Control		Speaker Cones	
	Part No.	List Price	Part No.	List Price	Part No.	List Price		Part No.	List Price	Part No.	List Price	Part No.	List Price
S-70			6958	\$2.00			710831, 710832	13997	\$1.65	13996	\$2.00		Obs.
S-80			6958	2.00			710931, 710932	44065	1.65	13996	2.00	9504	\$2.55
S-120			7720	2.00									Obs.
400, 410, 420							710933	13997	1.65	13996	2.00	9504T	2.55
402													Obs.
403	4534	\$2.00					7101231, 7101232	14065	1.65	14169	2.00	9585	3.60
500, 501	6004	2.00					7101432						
504	501 15	2.00					810512	14522	1.65	14523	2.00	9615	1.65
504F	504 15	2.00					810623	14597	1.65	14598	2.00	9615	1.65
505	505 46	2.00					810722, 810723	14597	1.65	14598	2.00	9627C	4.00
507			505 50	1.65								9504T	2.55
508	508 3	2.00	507 50	1.65			810721, 810821	14597	1.65	14598	2.00		Obs.
514			507 10	1.65			810822					9627C	4.00
608			6958	2.00			810932	14572	1.65	14573	2.00	9585	3.60
708			6958	2.00			8101232, 8101432	14572	1.65	14577	2.00	9593	4.30
840, 850, 853	6001	2.00	6958	2.00			910511	15190	3.00			9615	1.65
851, 902	6887	1.65					910512	15286	2.00			9657	1.65
855, 901	6067	2.00					910513	15544	3.00			9660	1.65
1411, 1412	11709 tot	1.65	11718	2.00			910514, 910515	15551	2.00			9679	Obs.
	1411						910516						
	11711 tot	1.65					910551	14964	2.00			9563	2.00
	1412						910661	15240	2.65			9563	2.00
1521, 1522, 1523	11707	1.65	11713	2.00			910662	15240	2.65			9565	2.65
1524							910521, 910522	15240	2.65			9615	1.65
1621, 1622, 1623	11708	1.65	11715	2.00			910621					9663	2.30
5525												9666	not av.
1721, 1722, 1921	11710	1.65	11715	2.00			910791, 910891	15295	3.00			9666	not av.
70	12540	1.65	12541	1.65	5506	\$5.30	910892					9667	4.00
71	12541	2.00	12560	1.65	5507	3.00	910991, 9101091	15526	3.00			9672	not av.
72, 76	12852	1.65	12889	2.00	5831							use 9592	
77, 78, 85	12852	1.65	12853	2.00	48-1 10177	2.65						9672	
					78		9101092	14730	1.65	14937	2.00	9615T	1.65
					9512 10185	2.30	910523, 910524	15664	3.00			9663C	2.00
79, 80, 82	12872	1.65	12853	2.00			1010511	14730	1.65	12853	2.00	9615	1.65
81	12966	1.65	11712	2.00			1010512	15551	2.00			9679	not av.
83	12721	2.00	12541	1.65	9507	3.00	1010512	15551	2.00			9710T	2.00
84	12888	1.65	12889	2.00	9512	2.30	1010591, 1010691	15295	3.00			9707C	3.10
10536	505 001	1.75					1010792	15780	3.00			9707	3.10
10556A	505 001	1.75					1010792						
10566	506 001	3.00	506 001	3.00			1010721	15799	3.00			9663	2.00
10666	506 001	3.00	506 001	3.00			1010A511						
10806	506 002	3.00	506 002	3.00			1010A512	15890	2.00			9679	not av.
610531	12852	1.65	12853	2.00	9501T	2.55	1010A513					9615	1.65
					9521C	3.75	1010A514	16297	2.00			9735	not av.
610411, 610412	13682	2.00			Obs.		1010A515						
610551	12565	3.00	12566	1.65	9535	3.75	1010A516	16454	2.00			9615	1.65
610632	12852	1.65	12853	2.00	9525T	3.75	1010A517	16474	2.00				
					9528C	4.95	1010A521	15972	3.00				
610731	12852	1.65	12853	2.00	9518	3.30	1010A522						
610831	13738	1.65	12853	2.00	9518	3.30	1010A523	16262	3.00			9663	2.00
610932	13402	2.00	13101	1.65	9551 Use		1010A561C					9734T	2.90
610871	12611	1.65	13366	1.65	9518		1010A761						
610872					9537C	4.65	1010A762C	16359	3.00			9723C	2.30
6101031	13402	2.00	13400	1.65	9535 1	3.65	1010A765C					9723	2.30
					9551 Use		1010A763	16359	3.00				
6101231, 6101232	13166	2.00	13400	1.65	9518	7.95	1010A764						
710612, 710613	13781	1.65	13782	2.00	9515		1010A766						
710561, 710562	13781	1.65	13898	2.00	Obs.		1010B661 2	16279	3.00	16279	3.00	9563TM	2.00
					9569C	3.65	1010A861 2	16413	3.00			9723	2.30
710621, 710622	13781	1.65	13782	2.00	9563 1	2.00	1010B861 2	16307	3.00			9563TM	2.00
					9501	2.55	1010A961	16414	3.00			9723	2.30
710631, 710633	13781	1.65	13782	2.00	621	Obs.	1010A1061	16414	3.00			9723	2.30
710634, 710734	13997	1.65	13996	2.00	9585	3.60	110A511	16645	3.00			9750	1.45
710731, 710732	13781	1.65	13782	2.00			110A521	16625	3.00			9751C	
710733					9593	4.30						use 9663	
710772, 710771	13781	1.65	13899	2.00	9560T	3.30	110A651	16359	3.00	16359	3.00		
					Obs.		110A751	16413	3.00	16413	3.00		
							110A951	16413	3.00	16413	3.00		

O.—Ohms T.—Table C.—Console

NORTHERN ELECTRIC VOLUME AND TONE CONTROLS

Part No.	List Price	Part No.	List Price	Part No.	List Price	Part No.	List Price
K-963	\$1.25 ea.	K-1649 1	\$1.75 ea.	K-3302 1	\$1.75 ea.	K-3858-8	\$1.25 ea.
K-1008-1	1.25 ea.	K-1649 2	1.25 ea.	K-3302 2	1.75 ea.	K-3858-9	1.25 ea.
K-1008-2	1.25 ea.	K-2201-1	1.75 ea.	K-3303 1	1.25 ea.	K-4754-5	2.25 ea.
K-1092-1	1.25 ea.	K-2207	1.75 ea.	K-3303 2	1.25 ea.	K-4991-2	2.25 ea.
K-1092-5	1.25 ea.	K-2251	1.25 ea.	K-3413 1	1.25 ea.	K-4991-3	1.75 ea.
K-1092-6	1.25 ea.	K-2162	1.25 ea.	K-3715 1	1.75 ea.	K-4991-5	1.75 ea.
K-1092-7	1.25 ea.	K-2518	1.25 ea.	K-3715 2	1.75 ea.	K-5451	1.75 ea.
K-1092-9	1.25 ea.	K-2519	1.75 ea.	K-3753	1.25 ea.	K-5689-1	1.25 ea.
K-1093-1	1.25 ea.	K-2581	1.25 ea.	K-3754	1.75 ea.	K-5758-1	1.75 ea.
K-1093-2	1.25 ea.	K-2669-2	1.75 ea.	K-4612 3	.75 ea.	K-5758-5	1.75 ea.
K-1093-3	1.25 ea.	K-3025-2	1.25 ea.	K-4612 1	.75 ea.	K-5813-2	1.75 ea.
K-1142-3	1.25 ea.	K-3140	1.25 ea.	K-4612 2	.75 ea.	K-5813-3	1.75 ea.
K-11 2-6	1.75 ea.	K-3141	1.25 ea.	K-3858 1	1.25 ea.	K-5813-4	1.75 ea.
K-1367-P	1.25 ea.	K-3227	1.25 ea.	K-3858 2	1.25 ea.	K-5813-5	1.75 ea.
K-4612-4	.75 ea.	K-4014	1.25 ea.	K-3858 4	1.25 ea.	K-5813-6	1.75 ea.
K-1499	1.25 ea.	K-3228	1.25 ea.	K-3858 7	1.25 ea.		

CONTROLS FOR POST-WAR SETS:—

K-10323-2 (Model 5108, 5110, 5114) \$2.25 ea.

K-4991-2 is now used on new models 5000 and 5002.

K-4754-5 is now used on new models B-1000, B-1002, B-1100, B-1101.

K-10323 6 (Model 5116)

K-13689 2 (Model 7001, 7002, 7105) \$2.25 ea.

1.25 ea.

EXCLUSIVELY AT CANADIAN PHILIPS SERVICE REPLACEMENT PARTS

CHASSIS MODEL	SPEAKER & MISC.	LIST \$	TRANSF. & I-F COILS	LIST \$	SWITCHES	LIST \$	KNOBS, DIAL	LIST \$	CABINETS	LIST \$
CM 60A	grill (Only) 627-005.....	.75	filter choke assbly. 30H 050-028.....	2.50	performance switch Brown *1 080-035... .75		dial glass std 331-016.....	1.50	030-034.....	35.00
	tuning Indicator socket & cable assbly. 120-125.....	1.45	Iron core adj. for L1, L2, L10, L13, 609-003.....	.35	Black *2 080-036... .75		dial lamp holder assbly range indicator 110-118... .25		ant. & grd plate 120-094.....	.30
	Dial Lamp Socket Range indicator 570-106.....	.35	L20, L21, L22, L23 Power transformer 050-012.....	10.00	Blue *3 080-027... .75		dial pointer & slider ass. (glass) 120-187.....	.75	back cover 303-059.....	.75
			L24, L25, L26 Output transformer 050-025.....	2.25	Range switch. Green *2 080-028... .75		knob (side) vol. tone tuning 572-015... .20		Performance sw. clicker plate & shaft ass. 080-038.....	1.00
CM 55A	speaker grill cloth 627-005.....	1.50	power transformer 050-007.....	7.50	Yellow *3 080-029... .75		knob performance & range switch (front) 572-016.....	.20	range switch clicker plate & shaft assbly. 080-037.....	1.25
	antenna & grd. Banana plug 571-113.....	.25			Orange *4 080-030... .75				Cabinet 030-034.....	35.00
	record changer K25 cycle 090-029.....	40.00			Red *5 080-031... .75					
	record changer K60 cycle 090-030.....	40.00			White *6 080-032... .75					
CM 70A	speaker grill 627-004.....	1.00	filter choke 30 H 050-028.....	2.50	phonograph-Radio on-off switch 080-049 range sw. Sect. *1 080-018.....	2.25	dial glass standard 331-029.....	1.75	back Cover 303-095.....	2.00
	Phonograph changer model L25 090-010.....	45.00	Power transf. L20, L21, L22, L23 050-012.....	10.00	*2 Black 080-036... .75		dial pointer & slider ass. 110-094.....	.35	range sw. clicker plate & shaft assbly. 080 026.....	1.00
	L60 090-012.....	45.00	output transf. L24, L25, L26 050-025.....	2.25	*3 080-040.....	.75	Knob Phonograph-Radio 572-002.....	.75		
	tone cont. disc. Knob & shaft assbly. 120-142.....	.35			*4 080-017.....	.75	Knob vol. cont & tuning 572-003.....	.20		
810	tone cont. plates & knob assbly. 110-141.....	.35					knob wave range 572-017.....	.20		
							knob tone cont. 572-019.....	.15		
810	speaker assbly. G9.107.23.....	5.00	1st I-F transf. G9.142.42.....	2.25	performance sw. section *1 Brown 080-035... .75		dial glass std. scale 331-016.....	1.50	cabinet lid stay ass. 110-160.....	1.25
	Octal socket G8.532.07.....	.18	2nd I-F transf. G9.142.43.....	2.25	*2 Black 080-036... .75		lamp holder ass. (range ind) 110-118.....	.25	back cover 120-179.....	2.50
	Loop antenna assbly. G9.116.39.....	1.45	Output transf. G9.142.41.....	2.25	range switch sect. *1 Blue 080-027... .75		socket ass. range 570-106.....	.35	Performance sw. clicker plate & shaft assembly 080-045.....	1.25
			osc. assbly. G9.139.17.....	1.45	*2 Green 080-028... .75		socket ass. green 570-112.....	.25	range sw clicker plate & shaft. ass. 080-044.....	1.25
810					*3 Yellow 080-029... .75		socket ass.-red 570-108.....	.25		
					*4 Oraige 080-030... .75		dial pointer & slider ass. glass 120-187.....	.75		
					*5 Red 080-031... .75					
					*6 White 080-032... .75					
810							dial glass 331-050.....	.75	cabinet walnut 030-079.....	4.50
							dial pointer G5.925.67.....	.15	range sw. clicker plate 030-080.....	4.50
							knob walnut G5.483.23.....	.25	back cover assbly 120-225.....	.35
							knob Ivory 572-030.....	.25	back cover clip G5.514.20.....	.03

SPARTON VOLUME CONTROL GUIDE

Part No.	Model of Receivers	List Price	Part No.	Model of Receivers	List Price	Part No.	Model of Receivers	List Price
A3941.....	69, 79, 79A, 89, 930	\$1.80	S1585A.....	59, 79, 241RP.....	\$1.20	S1661-3A.....	5341NS, 5342, 5542, 6142..	\$1.50
A4770.....	931, 101, 110, 301, 591, 593, 600, 610, 589, 235	1.80	S1607A.....	99, 129	1.20	S1533A.....	5940.....	1.20
A5663.....	410.....	3.15	S1533-3A.....	4640, 4740, 4641	1.20	S1814-1A.....	6042.....	.85
S1154-1A.....	255, 469.....	1.15	S1533-6A.....	4741.....	1.20	27AR12.....	4648.....	1.10
S1313-1A.....	57.....	1.25	S1533-7A.....	4841, 4642, 5642	1.20	27AR1.....	5048, 5148.....	1.10
			S1814A.....	5040, 5041.....	.85	27AR2.....	6148K.....	1.10

PHILCO * * * GENUINE VOLUME CONTROLS * * * PHILCO

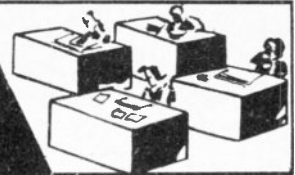
Part No.	Model	Part No.	Model	Part No.	Model	Part No.	Model
3076.....	82, 83, 86, 87, 511, 521	33-5064	334	33-5202	L-1424, L-1427	33-5331	401
3528.....	62, 65	33-5067	G (122), CGD (122), CGDU(122), N, FND, T-6, FT-6	33-5206	901	33-5347	201, 206
3790.....	92, 95		T-2, CT-2, HIT-2, T-5, CT-5, PT-5	33-5215	38-C10	38-5280	10 (121), C, NCD, SCD, D, NDD, SDD, CDS
3879.....	73, 76	33-5088	345	33-5216	38-C9	38-5534	11A (122), H, HHD, R (121, 122), CRD (121, 122)
4093.....	30, 96, 111, 112, 211, 212, 296	33-5097	3630, 3635	33-5225	38-C4, 38-C7	38-5606	11 (121), J (121, 122), NJD (121, 122), SJD (121, 122)
4094.....	20, 21, 41, 42, 47, 77, 220	33-5105	3610	33-5226	38-C325	38-5851	10 (122), E, MED, HHD (122)
4463.....	3	33-5106	3650, 3655	33-5227	38-C324	38-5935	C (122), SCD (122)
5039.....	70, 470, 90 (2-45's), 270	33-5108	T-10, CT-10, T-11, CT-11, HT-11, PT-14, P-1430, P-1432, C-1450, C-1452	33-5230	39-3A5	38-6005	806, T-8, NT-8
5056.....	470 (Lazyboy)	33-5121	T-9, FT-9, T-12, NT-12X, ST-12, T-14, PT-14, RT-14X, LT-14X3, P-1417, N-1434, G-1436, S-1437, F-1440, F-1442, N-1514, P-1517, N-1418, C-1423, S-1431, N-1433	33-5233	38-C2	38-6022	PHD (122)
5232.....	50	33-5139	3623	33-5243	38-C12	38-6297	T-3, MT-3, RT-3, ST-3
5317.....	35	33-5142	381, 3817, 3827	33-5246	N-1524, G-1528, P-1530	38-7968	P-1421
5724.....	90 (1-47), 490	33-5148	37-3600	33-5246	P-1535, L-1560	67-0002	P-1630
6015.....	70AVC, 90 (2-47's)	33-5152	316 (121, 122)	33-5251	S-1526	67-0003	C-1608
6109.....	7	33-5153	338 (123)	33-5257	C-1550	67-0004	P-1617
6415.....	48, 51, 52	33-5155	3116 (122), 3665	33-5260	F-1540 (If with bass compensation, see 33-5272)	67-0006	S-1626
6499.....	22, 71, 72	33-5157	37-361	33-5269	629, 629C	67-0008	F-1640
7049.....	91 (late)	33-5158	37-310, 37-311, 37-3116, 37-3610, 37-3623, 37-3630, 37-3640, 37-3650, 37-3670, 38-C3, 38-C116, 38-C623	33-5270	729	67-0009	L-1660
7239.....	337	33-5165	37-338	33-5272	F-1540 (With bass compensation, others see 33-5260)	67-0012	G-1628
7525.....	9, A, PA, PAL	33-5166	37-3624, 38-C624	33-5275	39-330, 39-331, 17, 19, 22, 701	67-0015	S-1622
8054.....	47, 71, 91 (early), 92, (225)	33-5169	37-333	33-5276	39-317, 39-319	67-0018	F-1641
33-5000.....	319 (128)			33-5277	39-3B4, 205	67-0019	933
33-5002.....	337 (122), 338, 338 (124)			33-5279	39-3A1, 39-3A2	67-0020	931, 801
33-5004.....	89 (early), 319			33-5286	39-340, 39-341, 21	67-0022	C-1708
33-5005.....	80 (122)			33-5300	39-3116	67-0026	F-1740, L-1760, L-1761
33-5006.....	360, 366			33-5301	39-371, 203	67-0027	S-1722
33-5007.....	389			33-5306	10, 12, 14, 24, 25, 26, 27, 28, 29, 31	67-0028	S-1726
33-5009.....	5			33-5310	372, 402, 403, 404	67-0032	804, 805, 809
33-5011.....	357, 358, 359			33-5313	TP-34		
33-5020.....	339			33-5319	15, 16, 18, 23		
33-5022.....	316 (125, 126), 3116 (121)			33-5321	202, 204		
33-5024.....	318, 3118						
33-5025.....	334						
33-5024.....	318, 3118						
33-5025.....	334						
33-5055.....	384, 37-384						
33-5056.....	G, CGD, CGDU, HGD						

SAVE TIME & MONEY — ORDER GENUINE FACTORY PARTS FROM US



HOW TO ORDER BY MAIL

from CANADIAN ELECTRICAL SUPPLY * COMPANY * LIMITED



HOW TO SIMPLIFY ORDERING

Use Our Convenient Order Blank (additional blanks sent on request). Please write in ink, legibly, and not more than ONE item to a line. Make sure you write the exact stock number and page. Specify how we shall make shipment by "Parcel Post," "Express", etc. We shall follow your instructions, but will change them wherever we are sure that such a change is to your better interest.

Note:—If you prefer shipments to be made on other than a C.O.D. basis kindly send us credit references so as not to delay shipment of your orders.

HOW TO SEND MONEY

The safest and best way to send money is by Express, Post Office or Telegraph Money Order; bank drafts; stamps. If absolutely necessary to remit cash, send by registered mail only. Do not hesitate to include sufficient postage; over-payments are promptly refunded.

C.O.D. SHIPMENTS

Transportation charges on C.O.D. parcels are slightly higher than those sent prepaid. The Post Office also charges an extra small money order fee on each C.O.D. parcel. SAVE these fees by remitting in full. 20% Deposit required on all C.O.D. shipments.

RETURNING MERCHANDISE

When necessary to return any merchandise for adjustments, please write in advance stating the following:—reason for return—when and where purchased—number of sales slip (if purchased over the counter). When returning merchandise, pack carefully, insure, and write your name and address on all packages and letters before shipping.

EXPRESS SHIPMENTS

In general, it is best to send bulky merchandise by express rather than by parcel post. If your station has no agent, please send sufficient money to cover transportation. All over-payments are promptly refunded.

COMMENT SIMPLIFIER VOS COMMANDES

Faire usage de nos blancs de commandes, lesquels vous seront fournis sur demande. Avoir l'obligeance d'écrire à l'encre lisiblement ne mentionnant qu'un seul article par ligne. Bien indiquer le numéro de l'article désiré, ainsi que la page du catalogue. Spécifiez la manière d'expédition désirée, soit par colis postal, express, fret, etc. Nous ferons expédition tel que demandé, à moins qu'il nous soit possible de faire un changement qui vous serait profitable.

Avis:—Si vous préférez l'expédition de votre marchandise autrement que par C.O.D., faites accompagner vos commandes d'une lettre de référence sur votre crédit et par ce fait évitez tout délai possible à l'expédition.

COMMENT FAIRE REMISE D'ARGENT

La plus certaine et meilleure manière de faire remise est par Mandat d'Express, Mandat Postal ou Mandat Télégraphique; Traite Bancaire ou Timbres de Poste. S'il vous faut absolument faire remise par argent sonnante, n'envoyez que par poste recommandée. Ayez bien soin d'inclure suffisamment d'argent pour couvrir les frais de transport; tout surplus vous sera remis.

ENVOIS "CONTRE-REMBOURSEMENT" (C.O.D.)

Les frais de transport sur colis C.O.D. sont un peu plus élevés que si envoyés port payé. De plus le bureau de poste fait quelques frais pour mandat postal sur chaque envoi. Afin d'éviter ces frais additionnels, faites remise en plein. Un dépôt de 20% est requis sur tout envoi C.O.D.

RETOUR DE MARCHANDISES

Si par hasard il vous faut retourner certaines marchandises pour ajustement, veuillez nous écrire à l'avance donnant les raisons requises. Si l'achat fut fait au comptoir, veuillez mentionner le numéro de fiche, ainsi que la date d'achat. Quand vous nous retournez des marchandises il vous faut prendre soin de bien les emballer, les faire assurer et bien inscrire votre nom et adresse sur chaque colis et lettres.

Rates of Postage on Parcels Mailed in Quebec & Ontario.

FROM TORONTO	FROM MONTREAL	1 lb.	2 lb.	3 lb.	4 lb.	5 lb.	6 lb.	7 lb.	8 lb.	9 lb.	10 lb.	11 lb.	12 lb.	13 lb.	14 lb.	15 lb.	Over 15 to 20 lb.	Over 20 to 25 lb.
Within 20 miles including place of mailing (1).....	Within 20 miles including place of mailing (1).....	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Beyond 20 miles within the province of Ontario.....	Beyond 20 miles within the Province of Quebec.....	0.05	0.07	0.09	0.11	0.13	0.15	0.17	0.18	0.19	0.20	0.21	0.22	0.23	0.24	0.25	0.30	0.35
To Quebec or Manitoba.....	To Ontario or Maritime Prov.....	.11	.16	.21	.26	.31	.36	.41	.46	.51	.56	.61	.66	.71	.76	.81	.85	.90
To Saskatchewan or Maritime Prov.....	To Manitoba.....	.12	.20	.28	.35	.42	.49	.56	.63	.69	.75	.80	.85	.90	.95	1.00	1.15	1.25
To Alberta.....	To Saskatchewan.....	.13	.22	.31	.40	.49	.58	.67	.75	.83	.90	.97	1.04	1.11	1.18	1.25	1.50	1.75
To British Columbia or Yukon.....	To Alberta, British Columbia or Yukon.....	.14	.26	.38	.50	.62	.74	.86	.98	1.09	1.20	1.31	1.42	1.53	1.64	1.75	2.00	2.25
		.15	.28	.41	.54	.67	.80	.92	1.04	1.16	1.28	1.40	1.52	1.63	1.74	1.85	2.20	2.50

The maximum charge on any parcel shall not exceed 1 cent an ounce—Minimum prepayment of 3 cents required covering a weight up to 3 ounces.

Parcels are liable to 1 cent an ounce on excess weight over even pound until next pound or group rate is reached.

(1) This Rate also obtains in cases where the 20 mile area extends into an adjacent Province.

Tarif d'Affranchissement des Colis Mis à la Poste dans la Province de Québec

Adressés à	1 liv.	2 liv.	3 liv.	4 liv.	5 liv.	6 liv.	7 liv.	8 liv.	9 liv.	10 liv.	11 liv.	12 liv.	13 liv.	14 liv.	15 liv.	Au-dessus de 15 liv. jusqu'à 20 liv.	Au-dessus de 20 liv. jusqu'à 25 liv.
Tout bureau de poste dans un rayon de 20 milles, *y compris le bureau d'origine...	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Tout bureau de poste au delà de 20 milles, mais dans la province de Québec.....	0.05	0.07	0.09	0.11	0.13	0.15	0.17	0.18	0.19	0.20	0.21	0.22	0.23	0.24	0.25	.30	.35
Tout bureau de poste dans l'Ontario ou dans les provinces maritimes.....	.11	.16	.21	.26	.31	.36	.41	.46	.51	.56	.61	.66	.71	.76	.81	.85	.90
Tout bureau de poste dans le Manitoba.....	.12	.20	.28	.35	.42	.49	.56	.63	.69	.75	.80	.85	.90	.95	1.00	1.15	1.25
Tout bureau de poste dans la Saskatchewan.....	.13	.22	.31	.40	.49	.58	.67	.75	.83	.90	.97	1.04	1.11	1.18	1.25	1.50	1.75
Tout bureau de poste dans l'Alberta, la Colombie Britannique ou le Yukon.....	.14	.26	.38	.50	.62	.74	.86	.98	1.09	1.20	1.31	1.42	1.53	1.64	1.75	2.00	2.25
	.15	.28	.41	.54	.67	.80	.92	1.04	1.16	1.28	1.40	1.52	1.63	1.74	1.85	2.20	2.50

Lorsque le poids dépasse la livre ronde, le port peut être payé à raison de 1c. par once jusqu'à ce que le taux de la coupure de poids supérieure soit atteint. Exemples: Si un colis mis à la poste dans la province de Québec pour être livré dans la même province, pèse une livre et une once et que le taux d'une livre soit de 11c., le port exact est de 12c. Parallèlement, si un colis pèse 4 livres et 4 onces et que le taux soit de 26c. pour 4 livres, le port est de 30c.

*Ce tarif s'applique également lorsque la distance de 20 milles pénètre dans une province voisine.

FOREIGN ORDERS Export Agents Wanted

On foreign orders we require payment in Canada by irrevocable and confirmed letter of credit against documents, or 50% deposit with order, balance sight draft against B/L.

All quotations F.O.B. our warehouse, with slight additional charge for export packing. Orders up to \$100.00 payable in full in advance, including postage. All remittances payable in Canadian funds.

COMMANDES VENANT DE L'ETRANGER Agents d'exportation demandés

Nous exigeons au Canada que le paiement de ces commandes soit fait par lettre de crédit confirmées et irrévocables contre les documents, ou par versement de 50% avec la commande, balance payée par traite à vue contre le connaissance.

Tous prix f.a.b. notre entrepôt, avec légers frais d'emballage additionnels. Commandes de moins de \$100 payables entièrement à l'avance, frais de poste en plus. Toute remise doit être faite en fonds canadiens.

PEDIDOS DEL EXTRANJERO Se necesitan agentes de exportacion

Para pedidos del extranjero necesitamos el pago en el Canadá por Carta de Credito irrevocable contra documentos, o pago anticipado de 50% con el pedido, el saldo liquidándose por letra a la vista contra conocimiento de embarque. Todas las cotizaciones son F.O.B. nuestro almacén, con un pequeño gasto para el embalaje. Pedidos hasta \$100. pagaderos con anticipación, incluidos los gastos de franquicia. Remesas expresadas en dólares canadienses.

TIME
SAVERS

SERVICE AIDS

FOR
INCREASED
BUSINESS

IRC SPECIAL KITS



RESIST-O-KITS

Kit No. 1—FREE Cabinet with 20- $\frac{1}{2}$ watt; 44-1 watt; 10-AB; 4-ABA resistors.
Your Cost **\$12.00**

Kit No. 2—FREE Cabinet with 12- $\frac{1}{2}$ watt; 103-1 watt; resistors.
Your Cost **\$12.00**

Kit No. 3—FREE Cabinet with 100-1 watt resistors.
Your Cost **\$12.00**
Further details see page 27.

JUNIOR KIT—FREE metal cabinet supplied with purchase of 9 "most used" CS type controls and 4 switches. See page 23.
Your Cost **\$9.72**

MASTER KIT—FREE metal cabinet when you buy the popular 20 controls, 5 shafts and 6 switches. See page 23.
Your Cost **\$21.66**

BASIC KIT—Cabinets FREE when you purchase the list of resistors and controls as listed on page 23.
Your Cost **\$58.50**

NEW MALLORY KITS

VOLUME CONTROL KIT—FREE metal cabinet with purchase of 15 popular controls and 9 assorted switches. Sturdy cabinet of attractive design.

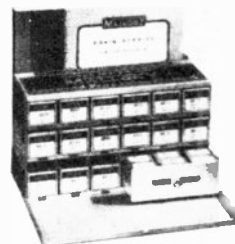
No. 1485—Your Cost **\$19.50**

MIDGETROL KIT—FREE—beautiful cabinet with purchase of 15 fast moving amazing new controls, 9 switches and accessories.

Your Cost approx. **\$20.50**

VIBRATOR KIT—FREE metal cabinet with the purchase of these 6 fast selling vibrators and 12 assorted buffer condensers.

No. 2448—Your Cost approx. **\$30.00**

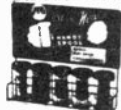


J. F. D. BALLAST KIT

Air Cooled adjustable ballasts in serviceman's kit. 5 Ballasts; 2 Type A; 2 type B; 1 type C. Together with listing of over 2500 replacements and instructions.

No. 770—Your Cost **\$6.00**

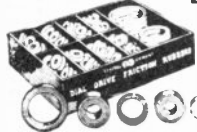
J.F.D. DIAL DRIVE CORD RACK



Rack free with the following: 5-100 foot spool, each in plastic container. Nos. 901D; 903; 904; 906; 908. See page 120.

No. 5R100—Your Cost **\$15.73**

RADIO AND PHONOGRAPH RUBBER DRIVE KIT



Specially made for Atwater, Kent, RCA, Stewart-Warner and others. Kit of 25 assorted drives.

No. 1025—
Your Cost **\$1.20**

RADIO PUSH ON KNOB SPRINGS KIT



Kits of knob springs as used in Majestic, RCA, Philco, GE and other popular sets. No. 1050 Kit of 35 assorted springs.
Your Cost **\$0.56**
No. 1051 Kit of 100 assorted springs.
Your Cost **1.09**

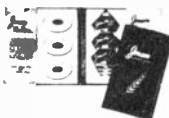
RADIO KNOB SET SCREW KIT



Kit of 50 assorted replacement screws for knobs in lengths of 6/32", 8/32" and 10/32".

No. 1060—
Your Cost **\$0.80**

JENSEN SERVICEMAN'S NEEDLE KIT



Compact kit for the pocket. Holds 3 Royal Jewel and 3 Classic needles.

No. 612—
Your Cost **\$7.20**

SHURE CARTRIDGE PACK



5 crystal cartridges that have been "standardized" to replace 58 different types of all popular makes. Chart for cross reference supplied with carton.

No. W50A—Your Cost **\$20.53**

PROFESSIONAL ALIGNMENT KIT



Complete set of Alignment and neutralizing tools. 30 tools in leatherette roll-type case. Further details see Page 127.

No. 5024—Your Cost **\$15.96**

RADIO BATTERY PLUG KITS



Plugs for all portable & farm radios, test equipment etc. With handy reference chart giving full data.

Your Cost
No. 7801—100 assorted plugs in metal box **\$9.60**

No. 7800—50 assorted plugs in cardboard box. **4.40**

AEROVOX CONDENSER KITS



A handy way to keep your tubular stock. Saves time and money.

Kit No. 1 Six of the popular PRT 8 mfd. 450 volts.

Kit No. 1—Your Cost **\$2.88**

Kit No. 2 12 popular PRT as follows: 6 PRT 8 450; 1 PRT 4 450; 1 PRT 4 150; 2 PRT 8 150; 2 PRT 10 25.

Your Cost **\$4.98**

Kit No. 25—25 standard tubulars, 600 W.V. Type 684.

Quantity	Mfd.	Quantity	Mfd.
3	.01	8	.1
3	.02	4	.25
3	.05	4	.5

Kit No. 25—Your Cost **\$6.34**

DIAL POINTER KIT



Popular assortment of 10 plastic case. See further page 117.

No. 8-10—Your Cost **\$2.32**

COMBINATION KIT



Contains 15 dial drive tension springs; 25 knob springs; 10 set screws; 5 idler pulleys; 10 dial drive rubbers.

No. 51-1
Your Cost **\$1.60**

Look! DEALERS' HELPFUL ADVERTISING & SALES AIDS

WESTINGHOUSE LAMP MERCHANDISER

Build lamp sales with the new merchandisers. Keeps lamps out front where customers can't miss them. New Floor Stand, 22" x 16 $\frac{1}{2}$ " x 50" high.

No. 100 **\$3.00**
Counter Stand, 22" x 16 $\frac{1}{2}$ " x 19" high.

No. 101 **\$1.50**
Westinghouse dealer sign. See details page 9. Write for further information.

WEBSTER WIRE RECORDER FOLDER

Specially printed advertising folder of Webster model 80, either on its own, or backed with Masco RK5 Disc Recorder. Imp rinted with your name. Your cost per thousand \$3.50.

FREE SALES HELPS Have you got Westinghouse, Marconi, or General Electric Blot- ters, printed with your name? Write for details. Write also for the latest GR radio display board, tube advertising matter and window displays.

HAVE YOU TRIED

MALLORY GOOD SERVICE PLAN?

You get a complete filing index and special cards, with your name and address on them, to send out to your customers, advertising your radio servicing and also to help you keep a record of the servicing you do. Filing box, index and — cards printed. Plus other helpful literature.

Your Cost **\$2.50**

Introducing

CUSTOMODE

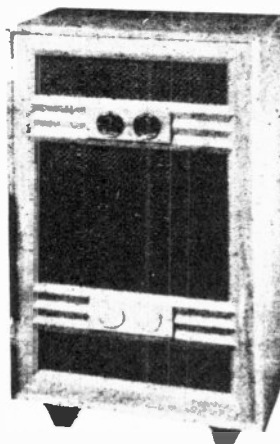
CUSTOM BUILT CABINETS FOR EVERY HOME

CANADIAN ELECTRICAL TAKES PLEASURE IN PRESENTING THIS NEW SENSATION. CREATE YOUR OWN LAYOUTS FOR RADIOS AND CABINETS FROM THE 4 BASIC UNITS. WE CAN GIVE YOU A HUNDRED POSSIBLE VARIATIONS — YOU WILL THINK OF HUNDREDS MORE

The Customode permits the combining of a fine **Jensen**, loudspeaker and other associated equipment such as FM-AM receiver, amplifier, record changer, recorder etc. built to Customode performance standards.

It provides beautiful lined oak enclosures needed for the above equipment and these can be arranged in many ways to blend with the existing furnishings. Any one of the four basic units shown below is complete in itself — finished on four sides and the front. Pieces can always be added to the existing equipment, without it losing any of its smart appearance. It permits the building of an entertainment centre in the home or office.

Amongst the countless natural prospects for these models are musicians, music lovers, schools, "hams", amateur sound enthusiasts, and broadcasting stations.



Model M251 Base Reflex Reproducing Cabinet — The basic unit in a Customode assembly, as well as a separate speaker unit. Acoustically coordinated with Jensen 15" speaker to achieve fully effective performance. Symmetrical modern design allows it to be placed either vertically or horizontally with equal effect. Four concealed cut-outs are provided, any two of which may be used for flush type H-F Range and level controls. Complete with set of base rails. Supplied only with 15" Coaxial speakers.

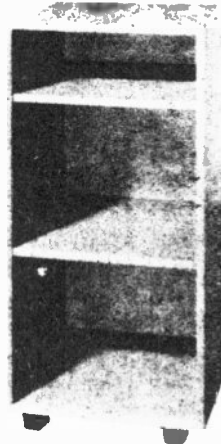
Your Cost..... **\$149.00**

See also below.

Model N-204 Record Cabinet

— This customode basic unit provides storage space for more than 200 12 or 10 inch phonograph records in standard albums. Convenient third shelf takes care of particular album which is in use — or for odds and ends. Unit may be placed on its side and used as long low shelf when necessary. Flush closed back. Size 36" high, 18" wide, 18" deep.

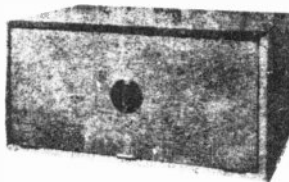
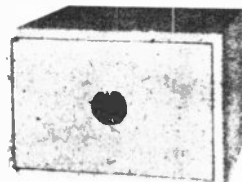
Your Cost..... **\$59.00**



Model N-201 Cabinet (Utility, Small)

— Ample space for most tuners, amplifiers, record changers, recorders and small transmitters. Can be used for general storage. Motorboard and slide assembly can be added for "pull-out" record changer shelf. Size 12" by 18" by 18".

Your Cost..... **\$39.50**



Model 203 Cabinet (Utility, Medium)

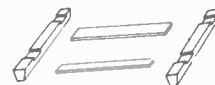
— For larger equipment than can be housed in N-201 cabinet. Will accommodate many types of communications receivers, television sets etc. Drop door may be used as operating shelf, or even adapted in layout for kneehole desk. Size 12" by 24" by 18".

Your Cost..... **\$44.00**



Motorboard and Slide Assembly — For use with N-201 cabinet. Makes slide out mounting for record changers. Plywood motorboard assembled to two ball-bearing metal slides. Your Cost... **\$10.50**

Base Rail Set — Set of two solid matching word tapered base rails (16" x 2 1/2") and two guide strips. Number of sets of base rails depends on layout. Your Cost..... **\$5.00**



JENSEN COAXIAL SPEAKERS



HNP-511 — Uses horn type L-F unit and tone type L-F unit, with Alnico 5 P.M. Max input 25 watts. Voice coil impedance 500-600 ohms.

With Reproducing Cabinet
Your Cost..... **\$202.00**

JAP-60 — Two cone type employed with built in dividing net-work. Max input 17 watts. Voice coil impedance 500-600 ohms.

With Reproducing Cabinet
Your Cost..... **\$162.00**

JHP-52 — Tone type coaxial with built in dividing net-work. Max input 14 watts, voice coil impedance 500-600 ohms.

With Reproducing Cabinet
Your Cost..... **\$149.00**



BELOW ARE ILLUSTRATED A FEW SUGGESTED LAYOUTS. CONSULT OUR EXPERTS FOR SUGGESTIONS



USED BY AMATEURS — MUSIC LOVERS — OFFICES — HOMES — STATIONS

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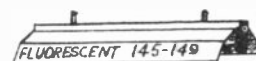
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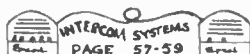
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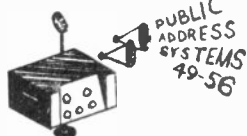
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VOS COMMANDES SERONT FAVORISÉES D'UN SERVICE PROMPT ET COURTOIS

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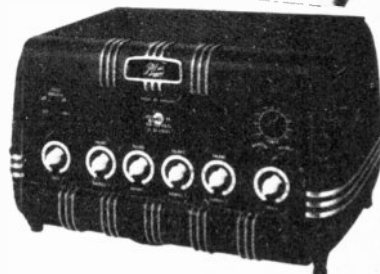
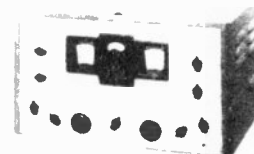
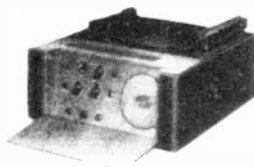
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You can Pay as you Earn with our Easy Monthly Time Payment Plan when you Buy

Vous pouvez Payer à mesure que vous Gagnez avec notre Système de Paiement mensuel lorsque vous achetez



★ TEST EQUIPMENT

★ P.A. SYSTEMS

★ RECORDING

★ AMATEUR RECEIVERS and TRANSMITTERS

Unpaid Balance	6 Months		8 Months		10 Months		12 Months	
	Chg	Amt. Per Mo.	Chg	Amt. Per Mo.	Chg	Amt. Per Mo.	Chg	Amt. Per Mo.
Up to \$60	\$ 5.75		\$ 7.50		\$ 9.50	\$ 8.00		
\$ 61 - \$ 70	5.85	\$12.50	7.75	\$ 9.75	9.50	\$ 8.00		
71 - 80	6.00	14.25	7.85	11.00	9.75	9.00	\$11.25	\$ 7.50
81 - 90	6.15	16.00	8.00	12.25	9.85	10.00	11.50	8.50
91 - 100	6.25	17.75	8.25	13.50	10.00	11.00	11.75	9.50
101 - 110	6.50	19.25	8.50	14.75	10.25	12.00	12.00	10.25
111 - 120	6.75	21.00	8.75	16.00	10.75	13.00	12.50	11.25
121 - 130	7.00	22.50	9.00	17.25	11.00	14.00	13.25	12.00
131 - 140	7.25	24.25	9.50	18.75	11.50	15.25	13.75	12.75
141 - 150	7.50	26.25	9.75	20.00	12.00	16.25	14.25	13.75
151 - 160	7.75	28.00	10.00	21.25	12.50	17.25	14.50	14.50
161 - 170	8.00	29.75	10.50	22.50	13.00	18.25	15.25	15.50
171 - 180	8.25	31.25	11.00	23.75	13.50	19.25	16.00	16.25
181 - 190	8.75	33.00	11.50	25.25	14.00	20.50	16.75	17.25
191 - 200	9.00	34.75	12.00	26.50	14.75	21.50	17.75	18.25
201 - 210	9.50	36.50	12.50	27.75	15.50	22.50	18.25	19.00
211 - 220	10.00	38.25	13.00	29.00	16.25	23.50	19.25	20.00
221 - 230	10.50	40.00	13.75	30.25	17.00	24.50	20.50	20.75
231 - 240	10.75	41.75	14.25	31.75	17.50	25.75	21.25	21.75
241 - 250	11.25	43.50	14.75	33.25	18.25	27.00	22.00	22.75
251 - 260	11.75	45.25	15.25	34.50	18.75	28.00	22.75	23.75
261 - 270	12.25	47.00	15.75	35.75	19.50	29.00	23.50	24.50
271 - 280	12.50	48.50	16.50	37.00	20.25	30.00	24.00	25.25
281 - 290	13.00	50.25	17.00	38.25	20.75	31.00	24.75	26.25
291 - 300	13.50	52.00	17.50	39.75	21.50	32.25	25.25	27.25
Balance impayée	6 mois		8 mois		10 mois		12 mois	
	Frais	men- sur- suite	Frais	men- sur- suite	Frais	men- sur- suite	Frais	men- sur- suite

SIMPLE EASY PAYMENT TERMS:

- 1. Minimum Purchase** Equipment must be valued not less than \$50.00.
- 2. Down Payment** 25% of total value of contract.
- 3. Carrying Charges** Standard low rates charged by I.A.C. We add no extras to their rates.
- 4. Monthly Payments** 6 months allowed on contracts under \$100.00 and up to 12 months on contracts over \$100.00 or over.

HOW TO ORDER ON OUR ATTRACTIVE PLAN:

1. Just send in your order for the equipment you need.
2. We send you simple instructions and a contract to complete and sign.
3. All contracts are handled by the Industrial Acceptance Corporation.
4. Your merchandise is shipped as soon as credit is approved and you receive complete details from the I.A.C. on how to make further payments.

TERMES DE PAIEMENT SIMPLES ET FACILES:

- 1. Achat minimum** La valeur de l'équipement ne doit pas être moindre de \$50.00.
- 2. Paiement Initial** 25% de la valeur totale du contrat.
- 3. Frais de contrat** Les ordinaux chargés par I.A.C. aucune charge additionnelle ajoutée par nous.
- 4. Paiements mensuels** 6 mois sont alloués pour contrats moindres de \$100.00 et jusqu'à 12 mois pour contrats de \$100.00 et plus.

COMMENT COMMANDER AVEC NOTRE PLAN:

1. Vous n'avez qu'à nous faire parvenir votre commande pour l'équipement désiré.
2. En retour nous vous remettons de simples instructions et un contrat que vous devez compléter et signer.
3. Tout contrat est retenu par la compagnie "Industrial Acceptance Corporation".
4. Votre marchandise est expédiée aussitôt que votre crédit est approuvé. Vous recevrez de cette même compagnie les détails complets sur la manière dont vous devez nous faire parvenir les paiements.

For your Convenience all Contracts are handled through Industrial Acceptance Corporation.

At no extra cost you receive Life Insurance Protection on any article, so that in the event of death the article purchased becomes paid in full. I.A.C. forwards you a reference card for establishing your credit throughout Canada. You pay interest only on the unpaid balance.

Pour votre Commodité tous les Contrats sont tenus par Industrial Acceptance Corporation.

Sans aucun coût, additionnel l'article en question est assuré et deviendrait complètement payé si le propriétaire décédait. I.A.C. vous fait parvenir une carte de référence afin que vous puissiez établir votre crédit à travers le Canada. Un intérêt est chargé seulement sur une balance non payée.



Economisez

AVEC LE PLAN DE PAIEMENT CANADIAN ELECTRICAL

hallicrafters

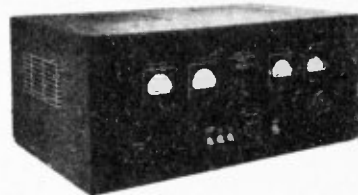
**HOTTEST
HAM
PERFORMANCE**

TRANSMITTING EQUIPMENT

HALLICRAFTERS HT-9 100 Watt — PHONE/CW TRANSMITTER

Accommodations in the exciter section provide for use of five individual plug-in tuning units and crystals simultaneously. Band switching is thus easily accomplished. Three milliammeters are used. Tuning units available for the 3.5, 7, 14 and 28 MC bands. General coverage coils from 1.5 to 18 MC. on special order; Power output of 100 watts on CW and 75 watts on phone; 100% modulation with low distortion; Antenna coil will match any resistive load from 10 to 600 ohms. Fourteen tubes: 6L6 crystal oscillator (used above 8 MC only); 6L6 crystal oscillator or doubler; 814 final RF amplifier 6SJ7 1st speech amplifier; 6J5 2nd speech amplifier; 4—6L6 push-pull parallel modulator; 2—5Z3 rectifiers; 80 rectifier; 2—866 rectifiers; operates on 110-120 volts. Complete with tubes, but less crystals and coils.

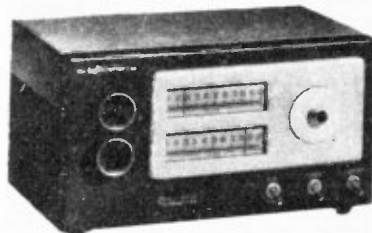
Model HT-9 Transmitter—Your Cost—60 Cycle..... \$546.00
Terms: \$138.50 down, \$70.63 for 6 months.



HT-17 RADIO TRANSMITTER EASY, PRECISE, FLEXIBLE, OPERATION

The power output 10-20 watts depending on the frequency of operation and the type antenna used. Amateur Band Operation from 3.5 to 30 Mc. Use any antenna, pi-section matching network plus coupling link built in. Easily coupled to a high power final amplifier. Socket for auxiliary power supply. Oscillator automatically switched to Triton on 3 higher bands. Terminals for connection of external modulator. Plug-in provision for M-2 plate milliammeter. Ready for operation on 10 meter band.

TUBES: 1-6V6-GT Crystal oscillator; 1-807 power amplifier; 1-5Y3-GT rectifier.
HT-17. 60 cycle. Your Cost..... \$145.00
Terms: \$36.22 down, \$19.22 for 6 months.



HT-18 NEW VARIABLE MASTER OSCILLATOR THE HOTTEST TRANSMITTER ITEM AVAILABLE TODAY!

Easily added to your present transmitter, it brings it right up to date. Narrow band FM and calibrated 5 band V.F.O. complete in one compact cabinet with all coils and power supply.

1. Converts any good CW transmitter to a high quality phone transmitter.
2. Eliminates 90% of broadcast interference.
3. Puts your signal anywhere in the band with stability comparable to crystal controlled transmitter.
4. Gives you direct calibration, direct output on all bands 80, 40, 20, 15, 11, 10.

7 tubes. 105-125 volts. 60 cycles AC. Size 12 3/4" x 7" x 7 3/4".
HT-18—60 cycles. Your Cost..... \$180.00
Terms: \$45.00 down, \$25.71 for 6 months.

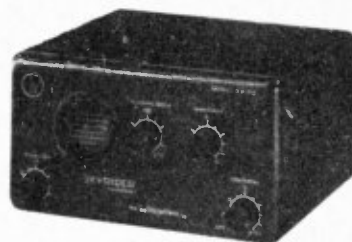


SP-44 Skyriders-Panoramic Radio Spectrum made Visible

Spot frequency modulation. Measure percentage of modulation and the quality of the signal being transmitted. Read signal strength instantaneously. Show where and how much to shift frequency to avoid interference once a QSO is under way.

No modifications necessary to your receiver in order to connect Model SP-44. Can be used with new and old Hallicrafters or any receiver with IF between 450 and 470 kc.

Your Cost..... \$150.00



TOP QUALITY PERFORMANCE AT LOWEST PRICES
CANADIAN ELECTRICAL FOR EVERYTHING IN ELECTRONICS

hallicrafters

THE
RADIOMAN'S
RADIO

COMMUNICATION RECEIVERS

S-38



LOWEST PRICED COMMUNICATIONS RECEIVER

Its super-sensitivity makes it an excellent receiver for communications service. Tuning range is 540 KC to 32.4 MC in four bands. Main dial calibrated in megacycles. All controls clearly marked. Headphone jacks and antenna terminals are provided at the rear of the cabinet. Steel cabinet is finished in satin gray, and the speaker grill in the cabinet is of airodized steel. 1.6 watts of audio output is available which is more than ample for all receiver requirements. Electrical bandspread dial permits separation of stations for communication or station logging purposes. Tubes required: 12SA7 Converter, 12SK7 IF Amp., 12SQ7 BFO-Automatic Noise Limiter, 12SQ7 2nd Det.-AVC-1st Aud. Amp., 35L6GT 2nd Aud. Amp. and a 35Z5GT rect. Operates on 105-120 volts AC or 105-120 volts DC. Receiver includes built-in PM dynamic speaker. Size 12 7/8" x 7 3/4" x 8 3/8".

Model S-38 Receiver with tubes—Your Cost..... \$83.95
Terms: \$20.98 down, \$11.47 for 6 months.

SX-43



OFFERS SIX BANDS FOR DISCRIMINATING AMATEURS

The Model SX-43 is designed for the discriminating amateur who demands excellent performance and wide frequency range at a medium price. This new member of the Hallicrafters line offers continuous coverage from 540 kilocycles to 55 megacycles and an additional band from 88 to 108 megacycles. In the band of 44 to 55 Mc., wide band FM or narrow band AM just right for narrow band FM reception is provided. Separate electrical bandspread dial calibrated for the amateur 3.5, 7, 14, and 28 megacycle bands and in addition is used to tune the 44 to 55 and 88 to 108 Mc. VHF bands, the main tuning gang being disconnected on these frequencies. Speaker terminals for 500 or 5000 ohms. Phonograph input connector. 11 Tubes. Finished in Satin grey.

SX-43 Standard model 105-125 volt—50-60 cycle. Your Cost..... \$285.00
Terms: \$77.77 down, \$37.21 for 6 months. 25 cycle Your Cost..... \$300.00

SX-42



APPROACH TO CLASSIC PERFORMANCE

A standard, short-wave and FM broadcast receiver, and high fidelity phonograph amplifier. Covers all frequencies from 540 KC to 110 MC in six bands: 540 to 1620 KC, 1.62 to 5 MC, 5 to 15 MC, 15 to 30 MC, 27 to 55 MC, 55 to 110 MC. A discriminator and two limiter stages on bands 5 and 6 permits FM reception. Separate electrical bandspread dial calibrated for amateur 3.5, 7, 14, 28, and 50 MC bands. Combination carrier level meter and FM tuning indicator. Dual IF'S. 455 KC IF for standard operation, 10.7 MC IF for VHF and FM operation. "Split-stator" tuning. Two tuned RF stages using miniature tubes for superior VHF performance. Tube complement—15 tubes. Operates on 105-125 Volts A.C.—Model SX-42 Receiver with tubes—Your Cost..... \$409.50

Terms: \$117.93 down, \$58.43 for 6 months.

Your Cost..... 25 cycles. 429.95

R-42 SPEAKER — BASS REFLEX

First 8" Jensen with the bass reflex principle. Designed for SX-42, it may be used with any receivers. Two-position switch for communications or high fidelity. Size: 12 1/2" deep, 11 3/4" high, 17" wide.

R-42 SPEAKER—Your Cost..... \$38.25

R-44 SPEAKER — PROFESSIONAL STYLE CABINET

In a professional style cabinet, offers the advantages of an oval speaker. A companion unit to the SX-43. Two-position switch for communications or high fidelity. 18 1/2" by 8 1/2" by 9 3/8".

R-44 SPEAKER—Your Cost..... \$26.00



TOP QUALITY PERFORMANCE AT LOWEST PRICES

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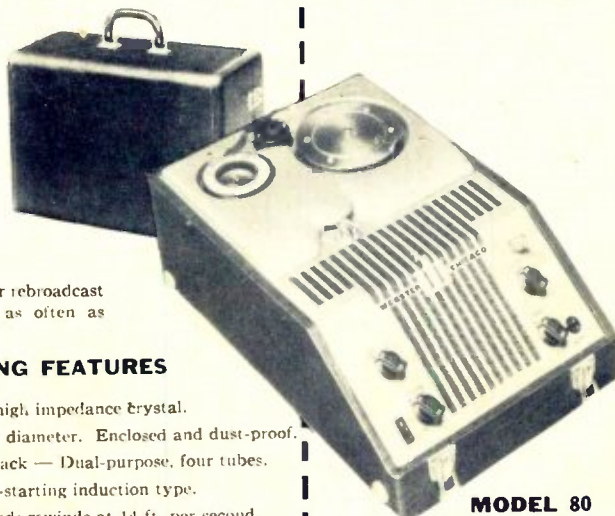
WEBSTER CHICAGO WIRE RECORDER



Has countless uses in home and industry operates as easily as a radio. Portable and easily carried. Can be used to record conferences, take inventories, field reports and countless other uses. Easy to operate — no technical knowledge required. Makes continuous or intermittent recordings — one spool of wire per hour. Can be stored for rebroadcast indefinitely or erased for reuse as often as required.

OUTSTANDING FEATURES

Microphone — Webster Chicago high impedance crystal.
Speaker — Electro-dynamic, 5 1/4" diameter. Enclosed and dust-proof.
Amplifier — Recording and Playback — Dual-purpose, four tubes.
Motor — 4 pole, shaded-pole, self-starting induction type.
Recording Speed — 2 ft. per second; rewinds at 14 ft. per second.
Recording Head — Triple purpose — records, plays, erases.
Case — Red morocco leatherette covered. Compartment for microphone power cord; spools of wire. Size 17 3/4" x 11 3/4" x 7 1/2".



MODEL 80
60 CYCLE ONLY

List Price..... \$219.95
Complete with crystal hand mike, and 3 spools of wire. Institutional price \$181.25 when duty free certificate supplied.

*POTENTIAL BUYERS

- ★ Photographers
- ★ Schools
- ★ Churches
- ★ Seminaries
- ★ Doctors
- ★ Lawyers
- ★ Music Students
- ★ Elocutionists
- ★ Government
- ★ Entertainers
- ★ Home Recording
- ★ Sales Managers
- ★ Journalists
- ★ Radio & Theatre

*DICTATION

Long memoranda, interviews, conferences, inventories, etc., are easily recorded.

DEALERS INQUIRIES WELCOMED!



SPOOLS OF WIRE

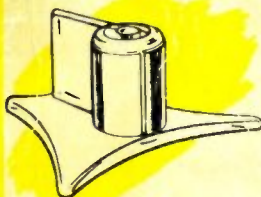
Stainless steel wire is supplied as standard equipment. It is flexible, has high tensile strength and satisfactory magnetic properties.

No. W-173 (15 minute) List..... \$3.45
No. W-174 (30 minute) List..... 5.20
No. W-175 (60 minute) List..... 8.50



MODEL 81—For commercial, industrial professional use. Same features as model 80. Designed for heavy duty use. Supplied with a microphone and 15 minute spool of wire. Plugs into an AC outlet and can be carried from room to room if desired. Weight 24 lbs. Size 12 3/4" x 11 1/2" x 9 3/4".

List price..... \$220.50
Institutional price..... 158.70



WIRE CONDITIONER — Improve Erasure trouble with this special alloy permanent magnet mounted on a base. It will effectively "erase" and demagnetize a wire as the wire rubs against it.
Your Cost..... \$1.55



MODEL 78—Model 78 makes any radio a wire recorder combination.
1. Built-in pre-amplifier, interstage amplifier, oscillator and power supply.
2. Necessary cords, plugs and instructions.
3. Meter type volume level indicator.
4. Sturdy metal case 11" x 11 3/4" x 5 3/4".

5. Complete with sensitive, crystal hand microphone and 15-minute spool of wire.
List Price..... \$199.50
Institutional Price..... 143.80



CONTROL BOX and RECORDING LEVEL INDICATOR

Model 83—Push-button controls for recording directly from a radio; recording with a microphone or playback of model 80 through a radio.

Model 85—Identical to model 83 but without recording level indicator.

Model 83—List Price..... \$49.85
Model 85—List Price..... 21.60



79 WIRE RECORDING MECHANISM—It is identical with the mechanism used in the Model 80 wire recorder. Consists of complete reversible wire transporting mechanism; triple purpose head which records, plays back and erases; winding wire guide; special oscillator coil for erasing; and a 15 minute spool of stainless steel wire. Supplied unwired. With 12 page instruction book. List Price.. \$105.00
Institutional Price..... 71.85



CORD ASSEMBLIES—Output Cord Assembly—Connects output of Model 80 to external AC speaker or amplifier. 10 ft. length.

No. CA-924—Your Cost..... \$2.00

Input Cord Assembly—Permits recording direct from radio, public address system, or phonograph. 10 ft. length.

No. CA-925—Your Cost..... \$2.00



IT'S PORTABLE!
Easy to carry. Closed, the case resembles an expensive overnight bag.

FREE SELLING HELPS:
Window displays
Salesmen's Bulletins
Counter cards
Envelope stuffers
Plus advertising assistance

CANADIAN ELECTRICAL SUPPLY CO., LTD.

MONTREAL 1,
275 CRAIG ST. W.

TORONTO 1,
543 YONGE ST.

DEALERS INQUIRIES WELCOME

DISTRIBUTORS:

WEBSTER CHICAGO

THROUGHOUT CANADA AND SOLE
DISTRIBUTOR IN THE PROVINCE OF QUEBEC.