

MICROPHONE AND ACCESSORIES CATALOG No. 37

MULTI-IMPEDANCE DYNAMIC MICROPHONES

SHURE

NEW "SMALL UNIDYNES"



MODEL "556S"
(For Broadcast)

The "Small Unidynes" are the only small sized uni-directional moving coil dynamic microphones. They are completely new microphones with improved performance, yet retaining all of the highly desirable features of the world famous original "Unidynes." The internal unit, based on the Shure-patented "Uniphase" principle, has been designed for high overall efficiency and extended peak-free frequency response. Rugged coil construction also provides greater immunity of the moving coil system to abnormal atmospheric conditions and mechanical shock.

Model "55S" and Model "556S" are considerably smaller than the original Model "55" and Model "556" and are ideal for installations where it is desirable to keep the microphone size to a minimum and still retain operating efficiency.



MODEL "55S"
(For General Purpose)

The "Small Unidynes" are "Perfect Performers"—ideal for high quality public address, theatre-stage sound systems, recording and remote broadcasting. Because of the unusual ruggedness and reliability, Model "55S" is also recommended for fixed station use in the Police, Fire and Transportation services. For studio broadcasting and television use and similar applications where the utmost in quality is desired, Model "556S" is recommended. "Small Unidynes" reduce reflection and reverberation, decrease random noise energy pickup by approximately 67%, allow performer to stand at a distance from the microphone 75% greater than is possible with non-directional (omnidirectional) microphones, have smooth response from 40-15,000 c.p.s at front—dead at rear. Standard $5\frac{1}{8}$ —27 thread. Both are supplied with a 20 foot, high-quality cable and plug assembly. Model "556S" features a Cannon connector, and it also has a special newly designed shock isolation unit of live rubber construction.

Dimensions for both units: case $3\frac{5}{16}$ " high; $2\frac{3}{16}$ " wide, $3\frac{1}{16}$ " deep.

Shipping weight: "55S" $3\frac{3}{4}$ pounds; "556S" $4\frac{1}{4}$ pounds.

Multi-Impedance Switch on Models
"55S", "556S", "51"



IMPEDANCE TABLE	OUTPUT LEVEL
L—35-50 ohms	59.4 db below 1 Milliwatt per 10 microbar signal
M—150-250 ohms	60.1 db below 1 Milliwatt per 10 microbar signal
H—High	60.5 db below 1 volt per microbar

MODEL	CABLE	CODE	LIST PRICE
556S	20 ft.	RUDOV	\$100.00
55S	20 ft.	RUDOT	\$ 72.50

"SONODYNE" HIGH-OUTPUT DYNAMIC

A rugged pressure-type dynamic microphone with wide range frequency response and semi-directional pickup characteristics. Features a multi-impedance switch for low, medium or high impedance. Operates on the principle of a moving coil element in a magnetic field. Has built-in receptacle and a two-conductor shielded cable with microphone plug attached.



MODEL "51"

The rich satin chrome case is functionally designed for improved acoustical performance and modern appearance. Frequency response 60-10,000 c.p.s. The "Sonodyne" is ideal for all general-purpose use including public address, wire and tape recording, communications and similar applications. Code: RUSON.

IMPEDANCE TABLE	OUTPUT LEVEL		
L—35-50 ohms	53.0 db below 1 Milliwatt for 10 Microbar signal		
M—150-250 ohms	52.5 db below 1 Milliwatt for 10 Microbar signal		
H—High Impedance	52.0 db below 1 volt per Microbar		
MODEL	CABLE	SHPG. WEIGHT	LIST PRICE
51	15 ft.	3 1/2 lbs.	\$45.00

Microbar=one dyne per sq. cm.

SHURE

CRYSTAL AND CARBON MICROPHONES



MODEL 737A

"MONOPLEX" SUPER-CARDIOID CRYSTAL

A high-output, unidirectional microphone that ranks far above ordinary crystal microphones. The Super-Cardioid "Monoplex" is **TWICE AS UNIDIRECTIONAL AS THE CARDIOID**. It has a 14 to 1 front to rear pickup ratio and **REDUCES PICKUP OF RANDOM SOUND BY 73%**! The "Monoplex" employs the same type of acoustic phase-shifting network used in the

Shure Broadcast microphones. New moisture-proofed "Metal Seal" crystal for long operating life. Case pivots at rear, can be pointed toward desired sound or upwards for horizontal plane pickup. The "Monoplex" is excellent for high-quality public address, communications, recording and similar applications. Operates under adverse conditions of background noise and reverberation where a conventional microphone would be practically useless. Built-in cable connector. Standard $5/8$ "-27 thread. Height 4". Width $3\frac{3}{8}$ ". Thickness $1\frac{1}{8}$ ". Shipping weight $2\frac{1}{4}$ lbs. Rich satin chrome finish.

Code: RUMON

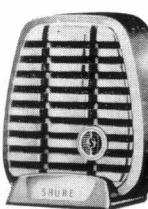
**707A
CRYSTAL**

MODEL 707A

Good-quality performance at low cost. Has good response characteristics, is free from peaks, has typical semi-directional pickup. Uses moisture-proof Bimorph Crystal. Ideal for low-cost P. A. systems, call systems, amateur 'phone transmitters and similar applications.

Pearl Gray case with rich satin chrome finish on front grille. The case is a heavy die casting. Standard $5/8$ "-27 thread. Diameter $2\frac{3}{8}$ ". Shipping weight $2\frac{1}{4}$ pounds. High impedance.

Code: 707A—RUDOF

**THE
"REX"**

710 SERIES

Its extremely low price makes this striking hand-held microphone a natural for hams, low-cost public address systems, and as a replacement for home recording microphones. A rugged unit designed for high speech intelligibility. The "Rex" saves further costs, as it needs no desk stand! Has a broad base, sits firmly on a table top without tipping over. Frequency response 60 to 9000 c.p.s. 5' shielded cable. Beautiful Burgundy-red metallic finish. Die-cast case complete with stand adapter, $2\frac{3}{8}$ " wide, $3\frac{1}{4}$ " high, $1\frac{1}{8}$ " thick. High impedance.

Code: 710A—RUDEL
710S—RUDET**STRATO-
LINER**

MODEL 708A

An expensive-looking microphone at moderate cost. Wide-range response (free from undesirable peaks) for good reproduction of either voice or music. Placed horizontally, the 708A is semi-directional; used vertically it becomes non-directional. Bimorph Crystal. A swivel permits 90° tilting of the microphone. Case dimensions: diameter $2\frac{1}{2}$ ", length $4\frac{7}{16}$ ". Standard thread $5/8$ "-27. Shipping weight $2\frac{1}{2}$ lbs. Frequency response is 60-8000 c.p.s. Pearl Gray finish. High impedance.

Code: 708A—RUDUM

MODEL	OUTPUT	CABLE	LIST PRICE
707A	51.0 db below 1 volt per microbar	7 ft.	\$15.50

Microbar = one dyne per sq. cm.

MODEL	OUTPUT LEVEL	SHPG. WT.	LIST PRICE
710A—5'	50 db below 1 volt per microbar	1 1/4 lb.	\$10.95
710S—5' (with switch)	50 db below 1 volt per microbar	1 1/2 lb.	\$12.95

Microbar = 1 dyne per sq. cm.

MODEL	OUTPUT LEVEL	CABLE	LIST PRICE
708-A	51.0 db below one volt per microbar	7 ft.	\$27.50

Microbar = one dyne per sq. cm.

LAPEL MICROPHONE

MODEL 76B

Designed for Public Address, lecturing, portable transmitters, and all general uses for intelligible reproduction of speech. Pressure-actuated diaphragm-type crystal microphone. Graphoil Bimorph crystal, moisture-sealed. Microphone is inconspicuous, weighs only $1\frac{1}{2}$ ounces. Response from 40 to 6,000 c.p.s. High frequency response accentuated for maximum intelligibility. $1\frac{1}{8}$ " diameter. Gray finish. Lapel clip. 20-foot shielded single-conductor cable. Shipping weight 1 pound. Output level: 57 db below 1 volt per bar. Code RULOP. List Price \$27.00.

MODEL "100" SERIES CARBON MICROPHONE

A high-quality, carbon microphone specially designed for mobile equipment. Rugged, dependable unit with clear, crisp voice response and high output. Fits snugly into palm of hand. Heavy duty switch for push-to-talk performance. Furnished with hook for suspension and bracket for wall mounting, plus coiled-cord cable. Adopted as standard microphone by leading manufacturers of police transmitters. Output level: 5 db below 1 volt for 100 microbar speech signal. Net weight 14 oz. Shipping weight $1\frac{1}{4}$ pound. Case dimensions: $3\frac{3}{4}$ " high, $1\frac{1}{4}$ " deep, $2\frac{3}{4}$ " wide. 70 to 80 ohms impedance.



MODEL	SWITCH ARRANGEMENT	CABLE	CODE	LIST PRICE
101C	Two Wire Relay Switch normally open (No microphone switch).	Coiled Cord 11" retracted 5' extended	RUCEG	\$27.50
102C	Relay normally open. Microphone switch normally open.	Coiled Cord 11" retracted 5' extended	RUCEM	\$27.50

Microbar = one dyne per sq. cm.

MODEL C15C Coiled Cord with trimmed and tinned leads. Used in "CB" and "100" Series Microphones.

MODEL: C15C Code: RUCOR List Price. \$6.75

CONTROLLED RELUCTANCE MICROPHONES AND RECORDING HEADS

SHURE



510 SERIES

The "Hercules" is a hand-held magnetic unit. Provides the ruggedness, clear reproduction, and high output long needed for Public Address, Communications, and Recording—**AT AN AMAZINGLY LOW PRICE!** Recommended for Announcing and Mobile Public Address Systems; Communications; Home Recording; high quality Inter-Communication. Ideal for general-purpose use in tropical countries and all coastal areas where humidity is a problem.

The output voltage is induced in a coil of wire by causing a sound wave to modulate the reluctance of the magnetic circuit. By the control of this reluctance the utmost in quality and stability is achieved. High impedance is obtained without the use of a transformer. The "Hercules" can be used either Indoors or Outdoors. Fits snugly in the hand, sits firmly on a desk. Frequency response is 100 to 7,000 c.p.s. Furnished with 5' shielded cable. Green metallic finish. Die-cast case. Complete with stand adapter. 2 2/3" wide, 3 1/4" high, 1 1/2" thick.

MODEL	CABLE	OUTPUT LEVEL	IMPEDANCE	SHPG. WT.	CODE	LIST PRICE
510C	5 ft.	52.5 db below 1 volt per microbar	High	1 1/2 lb.	RUTUF	\$15.00
510S (with switch)	5 ft.	52.5 db below 1 volt per microbar	High	1 3/4 lb.	RUTUS	\$17.00

Microbar = one dyne per sq. cm.



MODEL 520

THE "GREEN BULLET"

The "Green Bullet" is a magnetic unit, especially designed to provide quality music and speech reproduction at moderate cost. It is practically immune to the effects of high temperatures and humidity. The "Green Bullet" has a stability assured by unique control of the reluctance of the magnetic system. It features: high output, good response, high impedance without the need of a transformer. The "Green Bullet" has a beautiful modern metallic green finish with a plated grille. Frequency response is 100 to 7,000 c.p.s. Furnished with 7' single-conductor shielded cable.

MODEL	CABLE	OUTPUT LEVEL	IMPEDANCE	SHPG. WT.	CODE	LIST PRICE
520	7 ft.	52.5 db below 1 volt per microbar	HIGH	1 1/2 lbs.	RUDAL	\$17.50

Microbar = 1 dyne per sq. cm.

THE "RANGER"

The new Shure "Ranger" is a new development of a similar magnetic unit originally housed in microphones used by the Armed Forces. The "Ranger" is especially recommended for those applications where long lines are used, and a rugged hand-held microphone is needed. It is ideal for outdoor public address (sports arenas, athletic fields), mobile communications, hams, audience participation shows, etc. The "Ranger" is designed for high speech intelligibility. Easy to use, fits snugly in the palm of the hand. Has heavy-duty single-throw, double-pole leaf-type switch for push-to-talk operation. Phosphor-bronze blades and silver contacts for maximum operating life. Furnished with 5' three-conductor shielded cable. Frequency response is 100 to 9,000 c.p.s.



505 SERIES

MODEL	CABLE	OUTPUT LEVEL	IMPEDANCE	SHPG. WT.	CODE	LIST PRICE
505B	5 ft.	47.0 db below 1 milliwatt per 10 micro-bar signal	150-250 ohms	1 1/4 lb.	RUDAY	\$27.50
505C	5 ft.	50.5 db below 1 volt per microbar	High	1 1/4 lb.	RUDAX	\$27.50

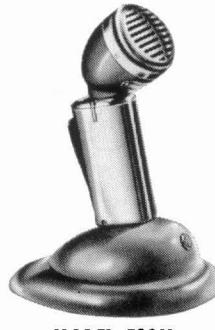
Microbar = 1 dyne per sq. cm.

THE "HERCULES"

MODEL	CABLE	OUTPUT LEVEL	IMPEDANCE	SHPG. WT.	CODE	LIST PRICE
510C	5 ft.	52.5 db below 1 volt per microbar	High	1 1/2 lb.	RUTUF	\$15.00
510S (with switch)	5 ft.	52.5 db below 1 volt per microbar	High	1 3/4 lb.	RUTUS	\$17.00

Microbar = one dyne per sq. cm.

THE "DISPATCHER"



MODEL 520SL

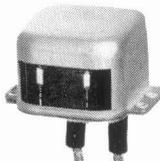
This new Controlled Reluctance unit is designed to handle the most severe field requirements of paging and dispatching systems. The unit is supplied with 3-conductor shielded cable, and is wired to operate both microphone and relay circuits. The "Dispatcher" is ideal for police, taxi-cab, railroad, airport, bus, truck, and all emergency communications work where dependability is vital. Large grip-bar assures positive contact. Firm downward pressure on grip-bar locks switch. NOTE: THE UNIT CAN BE PICKED UP WITHOUT ACTUATING THE MICROPHONE.

MODEL	OUTPUT	IMPED.	CODE	LIST PRICE
520SL-7'	52.5 db below 1 volt per microbar	HIGH	RUDAN	\$35.00

Microbar = 1 dyne per sq. cm.

TAPE RECORDING HEAD

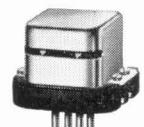
The Shure Tape Recording Head is a high quality, precision-engineered unit incorporating recording, reproducing, and erasing in one head. Suitable for all types of tape recording: professional, semi-professional, experimental, technical, and amateur use. Records on half width of tape—for double-track recording.



TAPE MODEL 815

Model: 815 Code: RUWAT List Price: \$15.00

WIRE RECORDING HEAD



The Shure magnetic Wire Recording Head is a high quality recording unit with recording, play-back, and signal erasure in one small unit. Has standard 4-prong adapter base. The Model "812" is a direct replacement unit for the improved Sears-Roebuck Wire Recorder.

Model: 812 Code: RUWIR List Price: \$15.00

SHURE

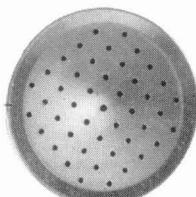
SWITCHES AND ACCESSORIES

MICROPHONE REPLACEMENT CARTRIDGES CONTROLLED RELUCTANCE

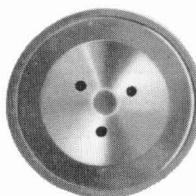
**MODEL R5**

The Model R5 Controlled Reluctance Microphone Cartridge is available for service installation and is also ideal for the replacement of crystal microphone cartridges in Shure cases of the Model 707A and Model 100 Series designs. It will also replace cartridges in cases of other manufacturers' models of similar design, where space permits. Complete installation instructions in English and Spanish are included. It is an acoustically controlled balanced-armature transducer ideal for both microphone and soft-speaker applications. Practically unaffected by heat and humidity. Supplied with rubber mounting ring. Overall diameter of mounting ring $2\frac{1}{4}$ "; thickness of rubber ring $3/16$ ". Overall depth of cartridge $1\frac{1}{8}$ ". Shipping weight 4 ounces.

Code: RUTUC. List Price: \$10.00

**MODEL R7**

The Model R7 Crystal Microphone Cartridge is available for service installation as a replacement for the cartridges in the Shure Crystal Microphones of the 707A and 708A series. High output—48db below 1 volt per microbar. Cartridge supplied with rubber mounting rings and a complete set of mounting instructions.

Model: R7 Code: RUDEC
List Price \$7.75**MODEL R10**

Model R10 Carbon Cartridge used in "CB", "100", and "120" Series Carbon Microphones. Rubber mounting rings. Easy to install.

Model: R10 Code: RUTUB
List Price \$8.00

CABLE TYPE TRANSFORMER



Model A86A is a high-quality cable-type transformer which offers additional versatility when used in conjunction with Shure Models 55, 55S, 556, 556S, and 51 Dynamic Microphones, which employ the impedance matching switch. It solves the frequent problem of installations requiring long lengths of microphone cables without the loss of high-frequency response. Model A86A matches 35 to 50 and 150 to 250 ohm microphones to high impedance amplifier input. Compact, sturdy. Case diameter $1\frac{1}{8}$ ", length $2\frac{7}{8}$ ", 2-foot cable. Shipping weight, $1\frac{1}{4}$ pounds.

Model: A86A Code: RUDEB List Price: \$16.00

TAKE-APART STAND

Model S34B. Handy low-cost stand for desk or hand use. One twist of handle locks it securely in base for use as a table stand, or releases handle for use in hand. Metal base, wood handle. Metal top threaded $\frac{5}{8}$ "—27. Height overall $6\frac{11}{16}$ ". Base diam. $4\frac{1}{2}$ ". Length of handle $5\frac{1}{8}$ ". Shipping weight 1 pound.

Code: RUKAB List Price: \$3.00

Model A41B. Microphone handle only. Threaded $\frac{5}{8}$ "—27.

Code: RUJAD List Price: \$1.25

"GRIP-TO-TALK SLIDE-TO-LOCK" SWITCH

This rugged Heavy-Duty Switch employs a long life, leaf-type switch element that withstands the most severe field requirements of paging and dispatching systems. Has spring-temper, phosphor-bronze switch blades with pure silver contacts. Ideal for Police, Taxi-Cab, Railroad, Airport, Bus, Truck, and all emergency communications work. Large grip-bar assures positive contact. Firm downward pressure on grip-bar locks switch. Can be used with Shure connector-type crystal, dynamic and carbon microphones of any impedance. Fits handily on Shure S36A Desk Stand as shown in illustration. No soldering necessary, simply plug in. Switch element can be readily removed for rewiring to accommodate other switching combinations. Rich satin chrome finish. Shipping weight 1 pound.

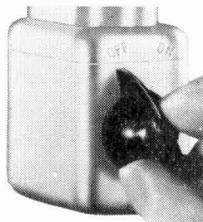
Model: A88A

Code: RUNEL

List Price: \$11.75

**MODEL A88A**

ON-OFF PRESS-TO-TALK SWITCHES

**A83B****A84B****A85C**

Plug into the microphone quickly and conveniently. Durable, dependable. No soldering necessary.

Model A83B. Rotary-type "On-Off" switch. Quickly attached to any cable-connector type Shure microphone. Internal plug establishes connections. Bakelite arrow knob.

Model A83B. Code: RUNIM
55A15 Switch element only.List Price: \$6.50
List Price: \$1.50

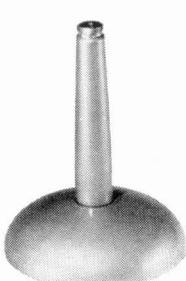
Model A84B. Momentary "On-Off" switch. Press-to-talk Bakelite disc.

Model A84B. Code: RUNID
55A16 Switch element only.List Price: \$7.50
List Price: \$1.75

Model A85C. Momentary Relay-Type switch. Press-to-talk Bakelite disc. Normally-open switch closes circuit comprising one conductor and shield of outgoing cable for operation of relay or other device; remaining conductor and shield of cable carry microphone output. Must be used with two-conductor shielded cable. Standard Shure cable-connector receptacle. Satin chrome finish.

Model A85C. Code: RUNAT
55A19 Switch element only.List Price: \$10.75
List Price: \$2.00

MODERN DESK STAND

**MODEL S34B**

Model S36A. Streamlined Desk Mount with stable support. Fits Shure connector-type Microphones, concealing plug in base. Ideal for use with A88A Grip-to-Talk Switch. Adapter provided for other type microphones. Removable button for installation of $\frac{3}{8}$ " standard bushing switch or volume control. Pearl Gray finish. Base: $2\frac{1}{2}$ " high, 5" wide, 7" long. Shipping weight $1\frac{1}{2}$ pounds.

**MODEL S36A**

Model: S36A Code: RUSEF List Price: \$5.50