

GENERAL SPECIFICATIONS

The Dynamote is constructed around a small, light-weight, welded frame to which attaches the amplifier, power supply, front panel with controls and meter, and the back panels for connectors and terminations. This slips into a rugged carrying case made of durable bass wood, covered with a heavy grade of black leatherette. A large leather handle, and hardware in nickel, add the finishing touch.

Amplifier design has four audio stages and 15 db of feedback is employed. A full output of plus 22 dbm at 1% distortion is obtained. A 4 db output isolation pad provides a final maximum output of plus 18 dbm at no more than 1% distortion or a 10 db range above the maximum permissible level of plus 8 dbm into a

telephone line. — Mixing controls are Daven, ladder type, 20 steps of 2 db. Input is either 50 or 150 ohms.

When batteries are employed for standby, the M-4933 Continumatic adapter is purchased plus the M-4983 kit of batteries. The M-4933 adapter includes relay, metal-hinged battery compartment, cable and plug, all of which fit in the removable rear case compartment. Changeover to batteries is automatic when AC fails. Reverse is true when AC is restored.

The Dynamote is cataloged less the microphone connector plate. These connector plates are cataloged separately so the purchaser may obtain the connectors of his choice. The entire plate of 4 connectors plugs into the amplifier chassis, and no wiring is required on receipt of the equipment.

Technical Specifications

OVERALL GAIN: 90 db \pm 3 db from microphone input to line output.
 FREQUENCY RESPONSE: \pm 1.5 db 30-15,000 cycles.
 DISTORTION: 1% or less 50-15,000 cycles at +18 dbm output.
 NOISE REDUCTION: 60 db below +8 dbm at -50 dbm input.
 MIXING CHANNELS: Four at 50/150 ohms.*
 POWER SUPPLY: Full wave transformer type with AC isolated.
 METER: 4" VU Scale B illuminated, adjusted 0 VU indication at +8 dbm.
 OUTPUT: 150/600 ohms. Output selected by switch to choice of 2 lines.
 OUTPUT JACKS: Front jack across line amplifier output.
 Rear jack No. 1 across line being used.
 Rear jack No. 2 order phone across line not being used and parallels order phone terminals.
 POWER: 115 volts, 50/60 cycles, 40 watts.
 WEIGHT: 22 lbs. less batteries, 29 lbs. with batteries.
 BATTERIES (if used): 2 type FP4, A batteries.
 5 type XX30, B batteries.

* 150 ohm input recommended for 200 or 250 ohm microphones.

Ordering Data

Dynamote with tubes and carrying case, less microphone connector plate and battery equipment.

Connector plate with 4 type XL Cannon connectors.

Connector plate with 4 type P Cannon connectors.

Connector plate with 4 type UA Cannon connectors.

Connector plate with 4 Hubbell 10 ampere twist lock connectors.

Connector plate with 4 connectors of your choice not above listed.

Continumatic battery compartment, relay and cable with plug.

Set of batteries for above, complete.

Extra 100% set of tubes for Dynamote.

Microphone plug for M-4918 connector plate.

Microphone plug for M-4919 connector plate.

Microphone plug for M-4920 connector plate.

Microphone plug for M-4921 connector plate.

Cat. M-4880

Cat. M-4918

Cat. M-4919

Cat. M-4920

Cat. M-4921

Cat. M-4984

Cat. M-4933

Cat. M-4983

Cat. TK-183

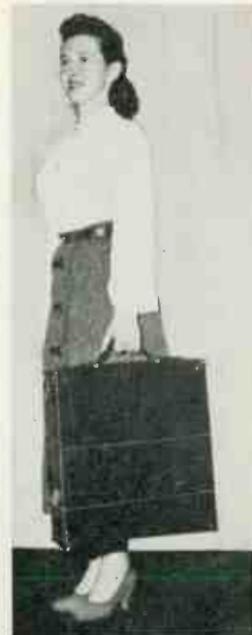
Cat. XL-3-12

Cat. P3-CG-12S

Cat. UA3-12

Cat. 7572

NOTE: Basic Dynamote must include your choice of connector plate listed above plus four appropriate microphone plugs as listed above.



Packed weight is only 22 lbs. less batteries or 29 lbs. with batteries.

**The NEW GATES
DYNAMOTE**
For TWENTY years
America's leading
Remote Equipment



Now!
 • Slenderized for T.V.
 • Printed circuit for Greater Reliability.
 • Lightest Weight Multi-Channel Ever Built.
 • 100% New Throughout.

GATES

GATES RADIO COMPANY
 Manufacturing Engineers Since 1922

QUINCY, ILL., U. S. A.

Houston, 2700 Polk Avenue
 New York, 51 East 42nd Street

Washington, D. C., Warner Bldg.
 Los Angeles, 7501 Sunset Blvd.
 New York, International Div., 13 East 40th St.

Atlanta, 13th & Spring Sts.
 Montreal, Canadian Marconi Co.

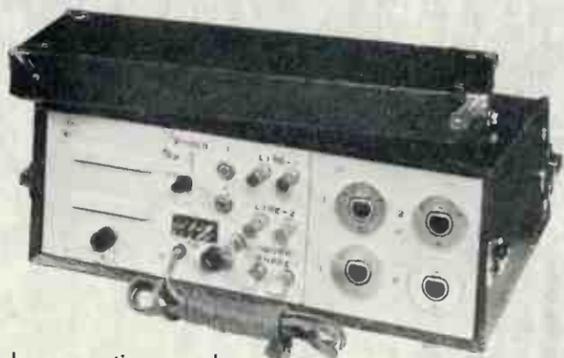
GATES



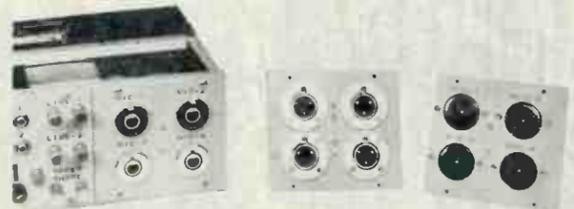
Dynamote with slim-trim design means easy over-the-top vision. V. U. meter tilts at any angle.



When not in use, or for packing, the V. U. meter folds down flat and the cover slips over.



Back connections and microphone receptacles are all reached by slipping off rear case cover.



For the first time, choose the microphone connectors you want. A simple plate of four, plugs into the amplifier chassis. No wiring required.

This top out of case view tells of the clean, compact and easy to service design. For the first time, printed circuit wiring has been employed in remote equipment. Results are uniformity of performance, greater rigidity, easier to service as no buried wiring and best of all—lower cost of production with this savings being passed on to you!

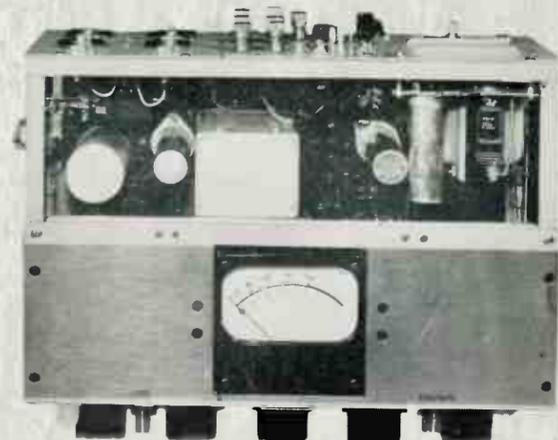
NOTHING GIVES the people of the Gates sales department more pleasure than preparing sales data on a new Dynamote. — For 20 years now, the Dynamote has been perhaps the best known and most used Gates product. From the days of the carbon microphone to our present era of superlative radio and TV performance, the Dynamote has been a symbol of aggressive leadership.

NOW COMES the finest Dynamote of all. Slenderized for better vision, weight has been greatly reduced, the location of controls and connection facilities are just right, the performance is at a new high, and it is rugged. If you like nice equipment from the standpoint of engineering appearance, or if you are hypercritical on serviceability—you can't help but like the Dynamote.

GLANCE AT THE NOVEL new way of handling the full sized 4" illuminated VU meter. The fold-in feature halves the total height of the equipment and places the VU meter closer to the eyes at just the right angle.

WHAT KIND OF MICROPHONE connectors do you use? It makes no difference with the Dynamote. Order with the connectors of your choice. And there is no delay. Each plate of four connectors plugs into the amplifier. This means we stock all Dynamotes alike. When you order, the plate with connectors of your choice is instantly inserted.

MIXING CONTROLS are located just right for the wrist to rest on the table. The Dynamote introduces a new Gates designed knob where the finger tips seem to naturally slip into place plus a full knob depth pointer for "in the dark" operation. With each Dynamote there is supplied a kit of color decals: red, green, blue, white, gold and silver. These may be inserted on the front face of the knob if desired.



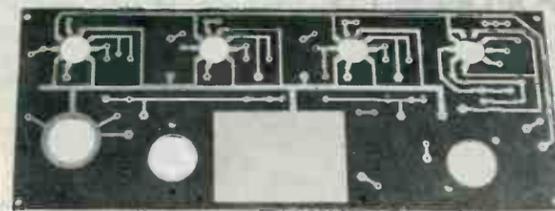
THE SIZE. Height, only 5 $\frac{7}{8}$ inches. Width, 10 $\frac{1}{4}$ inches. The depth, including back case partition for batteries, is only 17 $\frac{3}{4}$ inches. Now the weight: 22 pounds less batteries or 29 pounds with batteries. To engineers who have lugged heavy remote gear for many years, this, you will agree—is really something. By the way—if you do not use batteries, the empty rear partition is ideal for headphones, microphone cables and several of the new smaller design microphones.

THERE ARE FOUR MIXING CHANNELS of 150 ohms impedance. This means universal usage with 50, 150 or 250 ohm microphones, and you will like this feature. — The two switches at the top? The one to the left connects the amplifier output to two lines; and note you can turn the output off to use the lines for order phone or listening to cue. This ties in with the right switch which puts the phones across either line or the amplifier output. On the back side are jacks for either monitor phone or order phone. Also, captive head binding posts for two telephone lines and an order phone. Note the off-on switch is also on the back, taking one more unnecessary control off of the front panel.

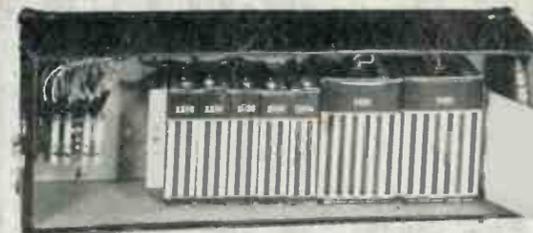
IN THE AMPLIFIER we have full-fledged design. This includes a highly shielded input transformer, four audio stages to allow an abundance of gain, the output transformer, and all done on printed wiring—the reliable way, the trouble-free way, and the cost-saving way to build equipment as modern as the Dynamote. The power supply is self-contained. Yes, a power transformer is used, and you will have no grounding problems.

TWENTY YEARS OF DYNAMOTES and half as many models, along with the unselfish constructive criticism of scores of broadcast engineers, have provided Gates engineers the material to know exactly what you want. We, at Gates, feel this new Dynamote will set the pace for years to come—both in design and modest selling price. Good engineering demands not only quality in workmanship and performance but design that will provide these things at low cost. — Both are in the new Gates Dynamote.

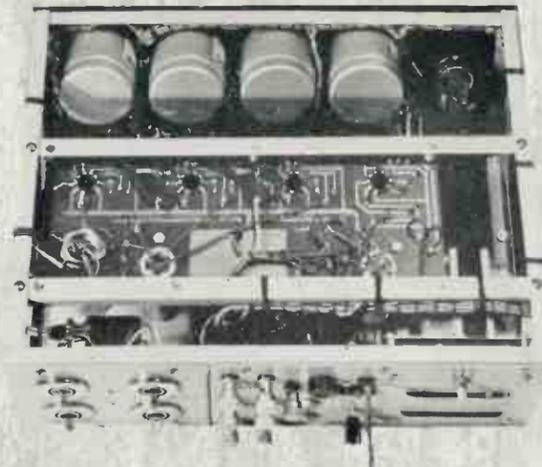
This Is Printed Circuit



To us, as a manufacturer, printed circuit means uniformity, lack of possibility of circuit errors, no broken connections, no cold solder joints—it means ruggedness, so important in portable equipment and lower cost with higher quality. — Another reason why Gates continually leads. — Always better and better through practical engineering that saves.



If automatic changeover from batteries to A. C. is desired, accessory M4933 may be purchased. This becomes part of the back cover of the portable carrying case.



We like this under shot of the Dynamote. It shows so well the distinct advantage of printed circuit design. Even though compact, because of printed circuit, it becomes roomy and easy to reach every part.



Battery pack plugs in back of amplifier which will always operate on A. C. until A. C. is interrupted—then changeover is automatic to batteries. Battery case section may be placed to the side or rear and need not be on top as illustrated above.