

HAVE YOU TRIED THE "SALT-SHAKER" MIKE?

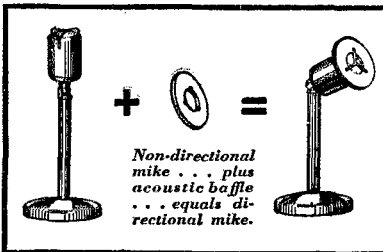


Ideal for amateurs
...you'll be surprised
by its **LOW PRICE!**

Western Electric's brand new "Salt-Shaker" is a 2-in-1 mike. It's *non-directional* when you want it to be. And when you don't—just put on the scientifically designed acoustic baffle and it becomes *directional*.

Either way, it's a great mike—engineered by Bell Telephone Laboratories—that gives you regular Western Electric broadcast quality.

At its low price, you will not want to do without the "Salt-Shaker." Write Graybar Electric, Graybar Building, New York, for full details.



Western Electric
BROADCASTING EQUIPMENT
Distributed by **GRAYBAR Electric Company**

band? Is this band of 85 kc. crowded? I should say not. I think that these 85 kc. are just being wasted. Night after night I have listened and could hear only 5 or 6 c.w. stations. Now why can we not just as well operate 'phone there and really do justice to those 85 lonely kilocycles?

—N. Howard, W1JBV

One of Many

Savanna, Ill.

Editor, *QST*:

Will you please publish my thanks to the gentleman who is using my call on forty and ten and gathering in all those hard-to-get QSL's? I am especially proud of the German card I received a month ago and thanks a lot for the VE2. I have worked several but have been unable to get a QSL. Incidentally, I need Florida, Nevada, Idaho, and Colorado for WAS. A VE5, VE1, or VO1 would also fill a gap in the wall and keep the mosquitoes out.

Moreover, if he will kindly make his identity known I will be glad to drop around and make the depth of my feelings known in a more touching manner.

—Robert Hicks, W9UET

Phantom CQ

8577 Germantown Ave., Chestnut Hill, Pa.

Editor, *QST*:

From Bill Ellsworth, W3FED, comes the following idea: that CQ is entirely unnecessary and superfluous. Says he, why not have a phantom or assumed CQ? A station wanting to send a general call for a rag chew, or what have you, would call "de W3QP de W3QP de W3QP K." It is obvious what is meant, and what a swell saving in time! Directional call would be: "Calif de W3FED Calif de W3FED" or "Calif Calif Calif de W3FED W3FED W3FED." Looks very simple and desirable to me. Just omit the "CQ" entirely and the gang will know what's wanted without it, perfectly.

—Jack Morgan, W3QP

A Universal Exciter

(Continued from page 65)

Another commercial trick for securing neat wiring is the use of dummy lugs, such as those between the r.f. chokes and the resistors. These handy little gadgets can be obtained from any radio dealer.

While commenting on wiring, it might be well to suggest that whenever a switch is mounted on the panel of the unit, such as the B-supply switch in this instance, a pair of terminals be located at some handy place in the rear and connected across the switch terminals so that should it be desirable at any time to control the switching by either an extension lead or a relay, it will not be necessary to remove the complete unit from the rack and half-disassemble it in order to delve into the interior to get at the switch contacts. This point is particularly applicable to power supplies, which, sooner or later, you will want to control either directly or by relays from a master switch on the operating table. After all, in our anxiety to get a new transmitter on the air, most of us at first have at least six switches to throw, in various parts of the room, before being able to shift from "send" to "receive." Sooner or later, however, we settle down to at least a brief spell of just plain operating, during which time we all take a little pride in seeing just how quickly we can shift;

632C and 633A/C Dynamic Microphones

**632C
633A/C**



632C



633A/C

Features

- Proven Design
- High Intelligibility
- Compact
- Temperature and Humidity Proof
- Application Flexibility
- High Output
- Low Impedance
- Exceptionally Rugged
- Inexpensive

TELECASTING — BROADCASTING — RECORDING PUBLIC ADDRESS SYSTEMS

Altec models 633 and 632C, rugged, high quality dynamic microphones, have become "classics" in the industry.

The Altec 633 "Salt Shaker" Omnidirectional Dynamic Microphone, the accepted standard for the broadcast industry, remains the choice of professional audio engineers. This continuing demand is adequate proof of the 633's exceptional design and outstanding service in broadcasting, recording, sound distribution systems and other applications where high intelligibility, durability and long life are essential.

The Altec 632C Omnidirectional Dynamic Microphone, specifically designed for clear, intelligible speech reproduction, is a close-talking microphone which provides excellent results even where high ambient noise, or reverberation cause conventional microphones to be unsatisfactory. The acoustically equalized frequency response of the 632C eliminates the need for special speech equalization equipment in the associated amplifier system.

Each microphone has a Mylar® diaphragm with tangential compliance, a copper voice coil, and a highly efficient magnetic structure. The 633 is available in two models: the 633A with an output impedance of 30/50 ohms, and the 633C with a selectable output impedance of either 30/50 ohms, or 150/250 ohms. The 632C has an output impedance of 30/50 ohms.

The 633 "Salt Shaker" microphone has a frequency response of 35 to 12,000 cycles with a gradually rising response from 1500 to 8000 cycles to provide a high degree of intelligibility for speech reproduction. The 632C has a rising characteristic from 150 to 10,000 cycles. The addition of an Altec 8B Baffle will assist in achieving a directivity characteristic for these microphones for use in public address systems and broadcast useage.

Other accessories which add to the flexibility of these microphones include the Altec 9A Swivel for angle mounting. For installations where it is undesirable to wire the microphone to its cable permanently, the 311A Plug may be attached for "plug-in" facility. The Altec 443A Jack is used to terminate the microphone cord. Complete data on these and other accessories will be found on the Microphone Accessories data sheet.



A Division of *LS* Ling Altec, Inc.

1515 S. Manchester Ave., Anaheim, Calif. 92803
New York

SPECIFICATIONS

	632C	633A/C
Type:	Moving Coil Dynamic	Moving Coil Dynamic
Frequency Response:	100 to 10,000 cps	35 to 12,000 cps
Output Impedance:	30/50 Ω	633A—30/50 Ω 633C—30/50, 150/250 Ω (selectable)
Output Level:	—55 d m/10 dynes/cm ²	—55 dbm/10 dynes/cm ²
Dimensions:		
Length —	2½"	3½"
Diameter —	2"	2"
Weight:	8¼ oz.	633A—10 oz. 633C—13 oz.
Finish:	Instrument gray	Instrument gray
Mounting:	⅝" — 24 thread	⅝" — 24 thread

ACCESSORIES

See "Microphone Accessories" sheet for desk or floor stands, on-off switches, adapters, and other microphone accessories.

ARCHITECTS AND ENGINEERS SPECIFICATIONS

(633)

This microphone shall be of the dynamic moving coil type. The microphone shall have a Mylar® diaphragm with tangential compliance and a copper voice coil. The frequency response shall be from 35 to 12,000 cycles. At 30 cycles it shall not be more than 6 db down, and at 12,000 cycles not more than 8 db down. The microphone shall be available in (633A - 30/50) (633C 30/50 and 150/250, selectable) ohms and shall be balanced in respect to ground. The diameter of the microphone shall not exceed 2" with a length of not more than 3½". The swivel adapter shall have ⅝" - 24 thread.

The microphone shall be so designed as to accept a separate baffle for semi-directional pickup pattern. The microphone shall weigh not more than (633A - 10 oz.) (633C - 13 oz.). The unit shall be designed to be used with plug, jack, and adapter where specified. The output level of the microphone shall be at least —55 dbm/10 dynes/cm².

Any microphone not meeting all of these requirements shall be deemed unacceptable under these specifications.

The microphone shall be Altec Lansing Model 633 (A) (C).

(632C)

The microphone shall be of the dynamic moving coil type. The microphone shall have a Mylar® diaphragm with tangential compliance and a copper voice coil. The frequency response shall be from 100 to 10,000 cycles. At 100 cycles it shall be approximately 6 db down and at 10,000 cycles shall be approximately 5 db down. From 150 to 10,000 cycles it shall have a gradually rising characteristic. The microphone shall have an impedance of 30/50 ohms and shall be balanced with respect to ground. The diameter of the microphone shall not exceed 2" with a length of not more than 2½". The mounting adapter shall have ⅝" - 24 threads.

The microphone shall weigh not more than 8¼ ounces. The microphone shall be designed for close-talking operation. The unit shall be such as to be used with plug, jack and adapter where specified. The output level of the microphone shall be at least —55 dbm/10 dynes/cm².

Any microphone not meeting all of these requirements shall be deemed unacceptable under these specifications.

The microphone shall be Altec Lansing Model 632C.

NOTICE
 We recommend that you obtain your Altec products from factory trained authorized Altec Sound Contractors and Distributors. This will assure you of proper installation, a continuing source of knowledgeable advice, service, and quick warranty protection.