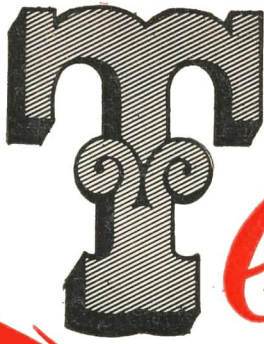


MARCH 21, 1959  
VOL. 156—NO. 12



# elephony

THE JOURNAL OF THE  
TELEPHONE INDUSTRY  
SINCE 1901



Published every week on Saturday by TELEPHONY PUBLISHING CORP.  
608 S. Dearborn St., Chicago 5, Ill. Subscription \$4.50 per year. Entered as second  
class matter at the Post Office at Chicago, Ill., under the act of Mar. 3, 1879.

**Guaranteed Circulation This Issue**  
**13,058 of Which 12,446 Is Paid**

## NEW AID TO OPERATORS

Mrs. Rose Mary Dixon, operator at the Indianapolis Works of Western Electric Co., demonstrates the new transistorized amplifier designed by Bell Laboratories. Changes in amplification are made by turning knob. See page 51.



shot. It is 300 feet wide at that point. Heavy twine was tied to the line and pulled across—then, a hemp rope, and finally the heavy wire.

### Bell Transistor Amplifier Aids Telephone Operator

As an aid toward maintaining high quality and efficient telephone service, a new transistorized amplifier for operators' headsets has been made available recently to the Bell system operating companies.

Much of the good service provided by the telephone operator depends on her ability to hear distinctly. Noise conditions can be distracting, and individuals vary in hearing acuity.

These were some of the factors which influenced the Bell Telephone laboratories in developing a small and efficient amplifier for individuals who have difficulty in using the normal equipment efficiently. The amplifier works with central office switchboards, private branch exchanges, and test desks.

The new device, measuring  $1\frac{3}{4}$  by 2 by 3 inches, is an auxiliary unit that plugs into the switchboard and contains two sockets which receive the cord from the operator's headset. She turns a small knob which controls the amplification level.

The amplifier makes important use of the junction transistor. This transistor is especially well suited for the operator's amplifier because it is small and obtains what little power it needs through the switchboard. Telephones for subscribers with impaired speech or hearing and other sets for noisy locations use junction transistors, too.

The new unit is superior to the larger early models which consisted of a small amplifier, amplification control equipment and batteries for power.

A number of field tests were held to select the best shape for the new amplifier. Dummy models were tried on a wide variety of switchboards to obtain operators' opinions on how various designs would function. The design finally selected was small, standardized to fit all Bell system switchboards and test desks, and presented a minimum amount of interference to the operators.

The amplifier is being manufactured at the Indianapolis works of the Western Electric Co., and is reported to be performing very satisfactorily in the field.

### Letting It Lie

"When a man has not a good reason for doing a thing, he has one good reason for letting it alone."—REV. THOMAS SCOTT.



TYPE 88-T SPEAKERPHONE

## World's most compact loud-speaking phone!

Automatic's new Type 88-T Speakerphone is the most compact loud-speaking phone you can buy. That's because it's transistorized! There is no control cabinet. It's the *same size and shape* as our famous Type 80—no extra bulk.

With the Type 88-T, no special power supply is required. You install it like a regular phone...without time-consuming delays.

Speakerphone gives your business subscribers *no hands* telephoning. It's ideal for conferences. Install it in the home, too. The lady of the house appreciates its convenience when she has her hands full.

You can get Speakerphone in a choice of 10 eye-catching colors. For the full story on the Speakerphone, write for Circular 1857-C.

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