

Western Electric

SUBSCRIBER SETS

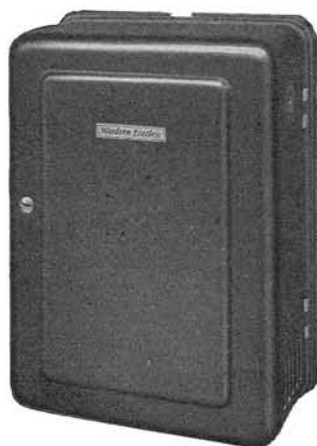
Anti-Sidetone

The Common Battery Subscriber Sets shown below are of the anti-sidetone type and have been developed by the Western Electric Company to improve transmission. The essential feature of this apparatus consists in the use of an anti-sidetone circuit whereby the sidetone is reduced by means of a third winding on the induction coil which winding includes a balancing resistance. On the average loop the transmitting improvement due to increase in talking volume obtained by this circuit and by using handset instruments averages about 3 db. The improvement in reception afforded by this circuit due to the reduction of the room noise in the telephone receiver results in an effective receiving gain which varies from 1 to 3 db., depending on the circuit conditions, battery supply and the amount of room noise present. The overall transmission improvement obtained by the use of these anti-sidetone sets at both ends of the connection is equivalent to that resulting from a reduction of trunk loss of from 3 to 10 db., depending on the instruments, circuit and room noise conditions. Inasmuch as the best results are obtained from a high battery supply, this new apparatus is most effective in short loops. Short loops being more or less common to congested areas in which the room noise level is liable to be very high, it is expected that the new sets will be of greater service in these areas.

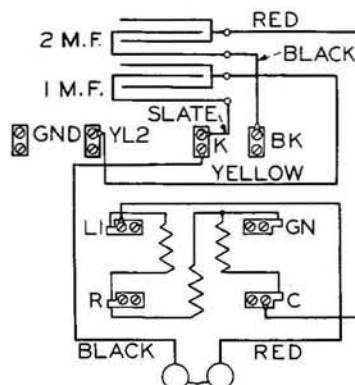
New station equipments employing the anti-sidetone features have not been developed for all classes of service to date and we are including only those sets which are available at the present time. For information on Subscriber Sets for classes of service other than described below, write our nearest distributor.

It should be noted that the code numbers of these sets correspond with those of the old sidetone type for various classes of service, except that 100 has been added; i.e., No. 584C Subscriber Set (Sidetone) is No. 684C Subscriber Set (Anti-sidetone).

NO. 634 TYPE



No. 634 Type Subscriber Set



Wiring diagram for No. 634 E F G H

The following No. 634 Subscriber Sets are of the anti-sidetone type and are intended for use in existing two-party or four-party harmonic ringing systems. These sets are contained in metal boxes finished in black. Consists of apparatus as shown below.

Code No.	Ringer	Gongs	Condenser	Induction Coil	Remarks
634E	41S (33 $\frac{1}{2}$ cycles)	(*)	194A	146B	Replaces No. 534E
634F	41T (50 cycles)	(*)	194A	146B	Replaces No. 534F
634G	41U (66 $\frac{2}{3}$ cycles)	(*)	194A	146B	Replaces No. 534G
634H	41R (16 $\frac{2}{3}$ cycles)	(*)	194A	146B	Replaces No. 534H

(*) Two No. 29A or 29B Gongs.

Two No. 31A, 32A, or 33A Gongs will be furnished when specified.