

Fig. 2—300 Type Set Outer and Inner Doors Open

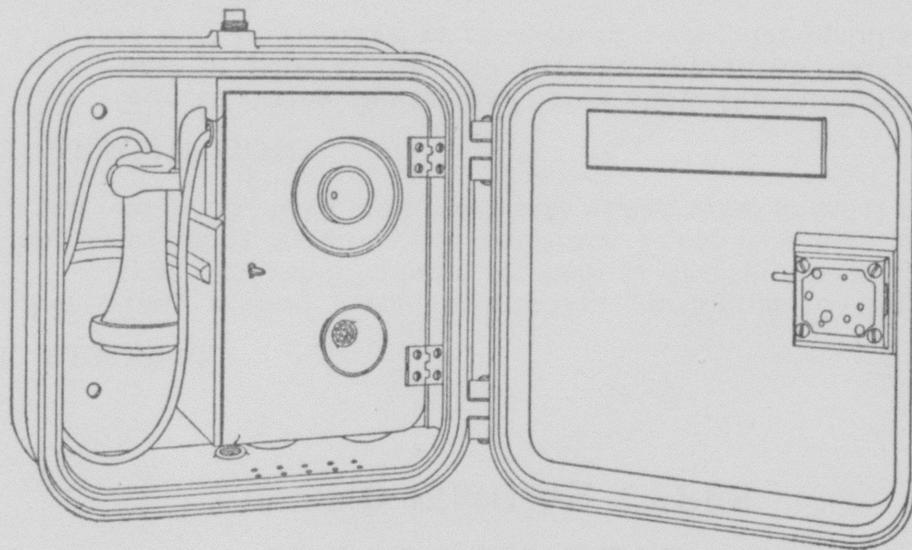


Fig. 3—530 Type Set Outer Door Open

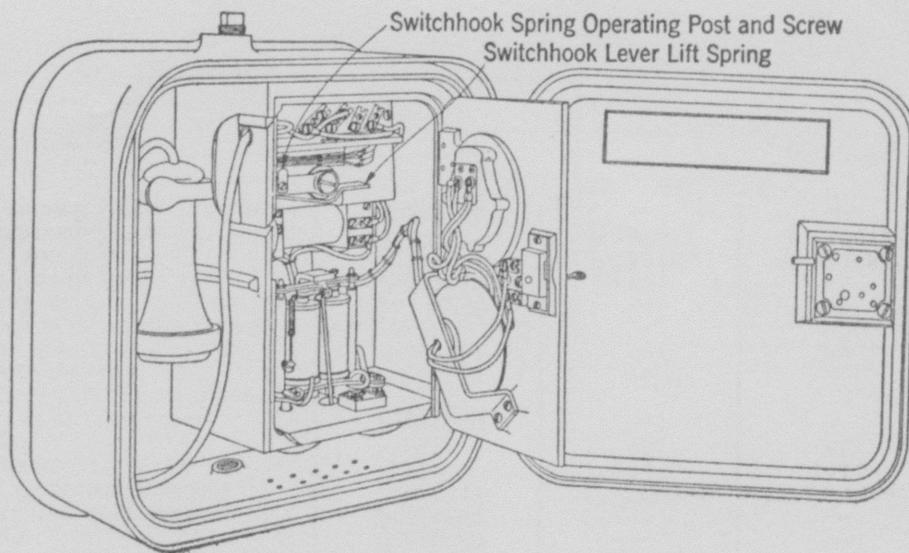


Fig. 4—530 Type Set Outer and Inner Doors Open

Table 1
APPARATUS AND PIECE PARTS

Items	300 Type	530 Type	630 Type+
Apparatus Blank.....	80A	50E	50E
Bracket (For mounting set)...	29A#	Hanger Per Drawing 229-B-25#	
Bracket (For inner door hinge)	P-241753	—	—
Clamp (For card holder).....	P-241748	—	—
Coil Spring (Outer door hinge)	P-241747	—	—
Coil Spring (Card holder).....	P-241750	—	—
Condensers: Talking.....	147A	21AN	147A
Ringling.....	149D	(Common)	149A
Cords: Transmitter (2).....	—	T1A (6" long)	
Receiver.....	—	R2B (1' 10" long)	
Hand Set.....	H3G (12" long)	—	—
Cover Assembly (Gong opening).....	P-241765	—	—
Dial.....	4HH-3	4H Type	4H Type
Dial Adapters.....	56A and 58A	—	—
Dial Cover*.....	—	P-212671	P-212671
Dial Cover Assembly*.....	—	P-212672	P-212672
Dial Cover Mounting Screws (3)	—	P-115855	P-115855
Dial Mounting Screws* (3)...	—	P-161325	P-161325
Door (Inner).....	P-241744	P-212780	P-212780
Door Assembly (Outer).....	P-241768	P-212784	P-212784
Filter.....	61L	—	—
Hand Set.....	E1D-3	—	—
Hand Set Supporting Hook...	P-241745	—	—
Hanger (For Mounting set)...	29A Bracket #	Hanger Per Drawing 229-B-25#	
Hinge (for inner door).....	—	P-93800	P-93800
Hinge Screw (for inner door) .	—	P-117253	P-117253
Induction Coil.....	155B	55B	155B
Lock Screw (For inner door or gong opening cover).....	P-225612	—	—
Number Plate (See note 1)...	147 Type	—	—
Pin (Outer door hinge).....	P-241951	P-209299	P-209299
Pin (Outer door hinge adjusting).....	P-241940	—	—
Pin (Inner door hinge).....	P-241752	—	—
Plug (Conduit opening).....	P-241749	1/2" Galvanized Pipe Plug	
Receiver.....	557B	144	144
Ringer.....	68L	6L	6L
Shaft (For card holder).....	P-241760	—	—
Spacer (Tubular cover for door hinge spring).....	P-241758	—	—
Strap (Lock reinforcing).....	P-241757	—	—
Switch (For cutting on and off loud ringing bell (See note 2))	Hart & Hageman No. 20599	—	—
Switchhook Assembly.....	P-241745	—	—
Switchhook Lever.....	—	P-212782	P-212782
Switchhook Lever Lift Spring.	—	P-180012	P-180012
Switchhook Operating Lever..	P-241746	—	—

Switchhook Operating Lever Pin.....	P-241796	—	—
Switchhook Spring Operating Post.....	—	P-180028	P-180028
Switchhook Spring Operating Post Screw.....	—	P-213303	P-213303
Transmitter.....	395C	323, 329 or 337	
Transparent Cover (For instruction card).....	P-241797	—	—

* Dial cover assembly P-212672 includes dial cover P-212671 and (3) dial mounting screws P-161325.

† Includes (4) 5/16" x 3/4"—18RH brass machine screws.

+No. 630B set is the same as the No. 630A except that the ringer, gongs and ringing condenser are omitted.

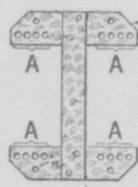
Note. 1.—No. 300B uses No. 147A number plate, No. 300C, the No. 147B and the No. 300D the No. 147E.

Note 2.—Order with 18" leads.

3. INSTALLATION

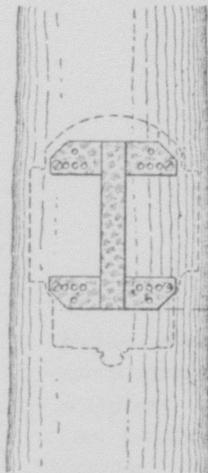
3.01 Install the outdoor set and associated apparatus including a No. 392 L subscriber set (if required) according to the general principles illustrated in the following figures. Locate the set where it will not be an obstruction to passersby, where the user will not be interfered with by vehicular traffic and in accordance with any local instructions that may apply.

Caution: Do not install outdoor sets on metal poles used for supporting trolley wires or other similar conductors, without definite instructions from your supervisor, as such installations are made only in special cases and require special approval.



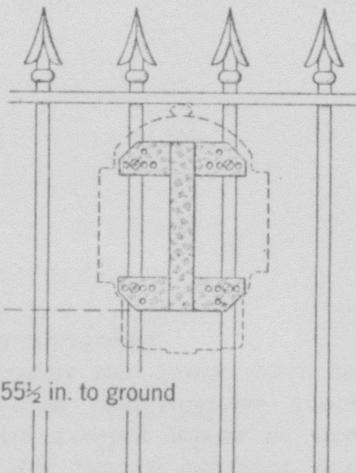
29 A Bracket

In attaching bracket, use one hole in each group of A holes. Use holes as far from center of bracket as practicable.
 Attach 300 Type Tel. Set to bracket with four $\frac{3}{4}$ in. \times $\frac{5}{16}$ in. No. 18 R.H. Brass Mach. Screws (which are furnished with bracket) using outer holes of cross - members of bracket.



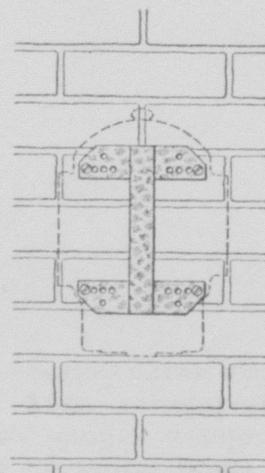
On Pole

Attach bracket with four $3\frac{1}{2}$ in. No. 14 R.H. Galv. Wood Screws.



On Solid Metal, Fences, Columns, etc.
 (See Note)

$55\frac{1}{2}$ in. to ground



On Masonry, Brickwork, Concrete, Stonework, etc.
 Attach bracket with four $\frac{3}{8}$ in. \times $1\frac{1}{4}$ in. Hammer-Drive Anchors or equivalent. If masonry is in poor condition use $\frac{3}{8}$ in. \times $2\frac{1}{4}$ in. Hammer - Drive Anchors or equivalent.

Fig. 5—Attaching No. 29A Bracket or Hanger Per Drawing 229-B-25

Note: On solid metal, fences, columns, etc., it is desirable to attach the 29A bracket by drilling and tapping holes for four 1 in. \times $\frac{5}{16}$ in. No. 18 RH Brass Machine Screws. However, in cases where local instructions permit iron straps, bolts, etc., may be used. It is important however, that the set be securely attached so that it cannot slip down as, for example, on the pickets of an iron fence.

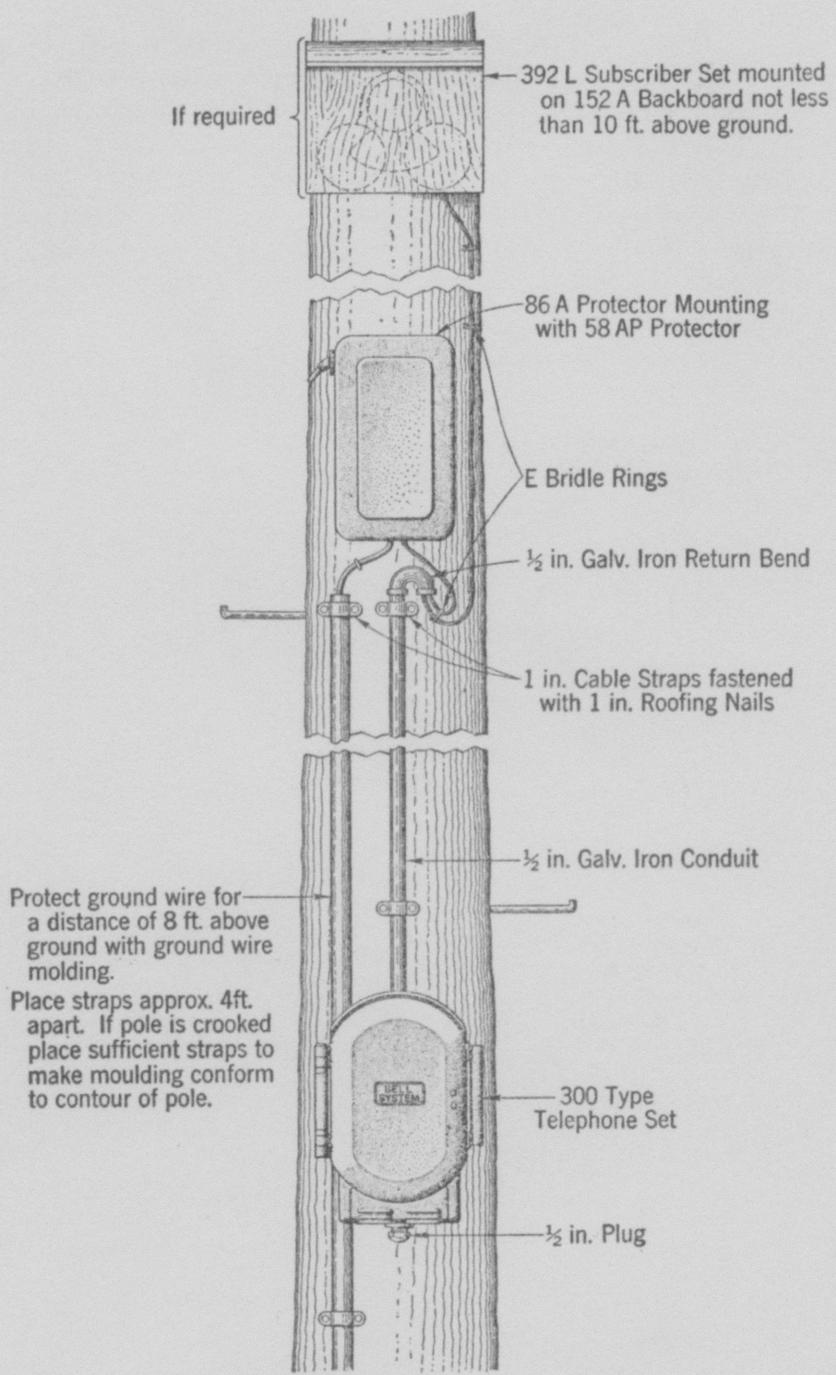
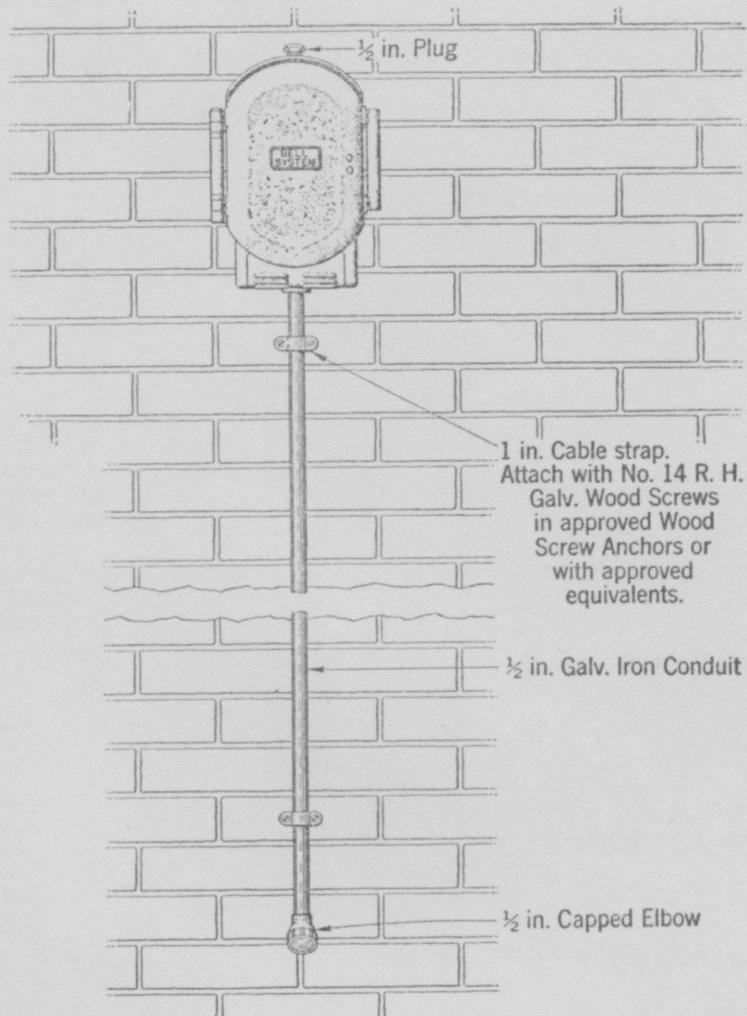


Fig. 6—Pole Installation

Note: Place ground rod in accordance with the Handbook Specification or replacing information covering protector installation.



Note: Installation shown above is for line wires entering set from below. If wires enter set from above, run conduit from top of set and screw rust proof plug into lower hole.

Fig. 7—Wall Installation

3.02 To install a dial in a No. 300A telephone set and convert it to a No. 300B, C or D set proceed as follows:

- (1) Open inner door of set and disconnect the wires BK, Y, BB, W and R from the No. 80A apparatus blank.
- (2) Remove number card holder and take out the two screws that hold the apparatus blank in place and remove the blank.

- (3) Assemble a 58A dial adapter on the back of the inner door, using the three screws, hexagon nuts and larger lock washers furnished with the adapter.
 - (4) Assemble the required 147 type number plate to a 56A dial adapter using the cap nuts and washers furnished with the dial adapter.
 - (5) Place the dial in the 56A dial adapter and assemble them to the set by means of the 58A dial adapter using the RH screws and smaller lock washers furnished with the 58A dial adapter.
 - (6) Attach the five wires to the dial according to color code and dial terminal markings. See Fig. 10 under connections.
- 3.03 If a filter is required install No. 61L filter in accordance with Fig. 8.

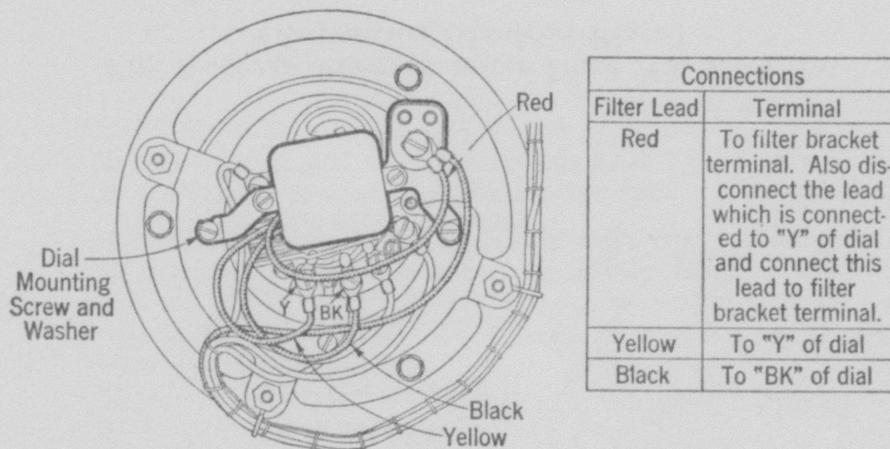


Fig. 8—No. 61L Filter Connections

3.04 To install a dial in a No. 530A subscriber set or similar set that is equipped with a No. 50E apparatus blank proceed as follows:

- (1) Open inner door of the set and disconnect the wires from terminals BK, Y, BB and W of the apparatus blank. See Fig. 9.
- (2) Remove the card holder from the apparatus blank, take out the two screws that hold the blank in place and remove the blank.
- (3) Install the dial cover P-212671 with the three screws P-115855.

- (4) Insert the four wires BK, Y, BB and W (630 type sets have an additional wire designated R) through the hole in the dial cover and connect them to the dial according to color code and dial terminal markings. See Fig. 11 or 12 under connections.
- (5) Fasten the dial in place with the three non-removable screws P-161325 in the dial cover and make sure there is no slack in the wires inside of the dial cover to interfere with the operation of the dial.

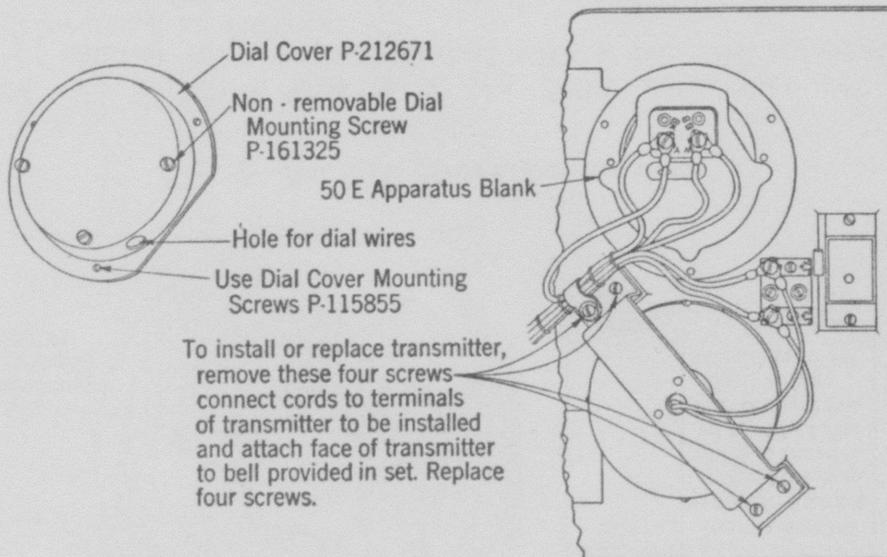


Fig. 9—Rear View of Inner Door No. 530A Set (Apparatus Blank in Place)

4. CONNECTIONS

4.01 Connections for the No. 300 type telephone set and the Nos. 530A and 630A subscriber sets are shown in Figs. 10, 11, and 12 respectively.

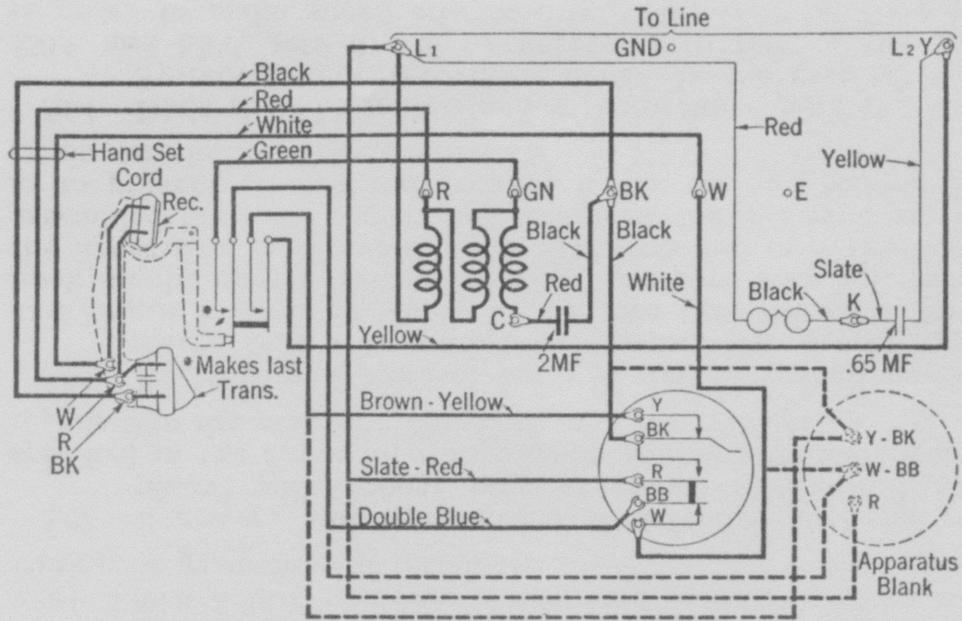


Fig. 10—Circuit of No. 300 Type Set

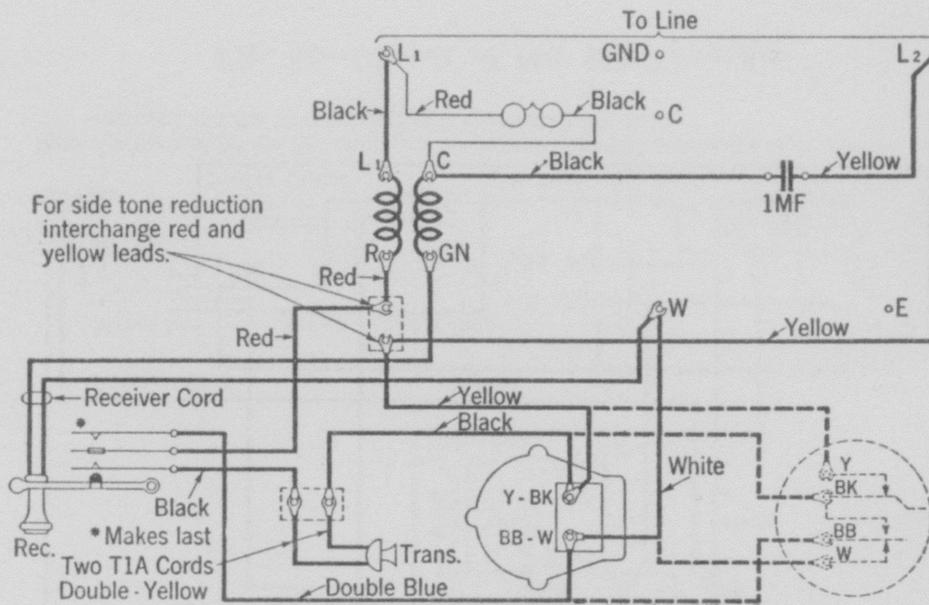
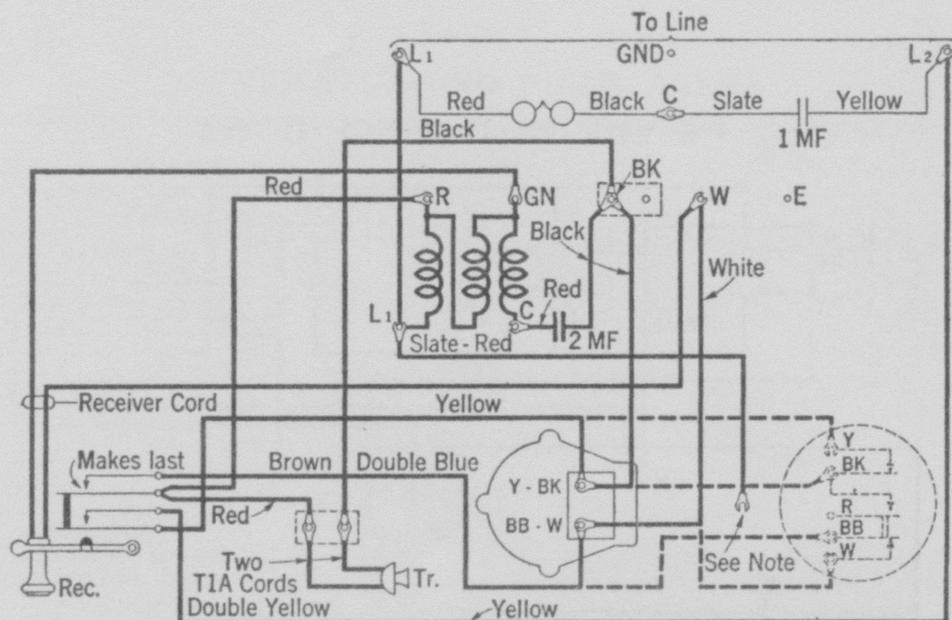


Fig. 11—Circuit of No. 530A Set



Note: For manual service this cord tip shall be taped. For dial service the tape shall be removed and the tip connected to R terminal of the dial.

Fig. 12—Circuit of No. 630 Type Set

5. MAINTENANCE

5.01 Avoid interference with central office apparatus by disconnecting the ring side of the line while doing work which might result in switchboard operation, short circuiting or grounding of terminals.

5.02 Receivers and transmitters if defective shall be replaced with proper type as shown in Table 1 and specified in the approved transmission zoning practice. Refer to Fig. 9 in the case of a No. 530A or a No. 630A set.

5.03 Receiver and handset cords if defective shall be replaced only with waterproof cords. The proper type and length is given in Table 1. Be sure that the metal stay hook on the cord is inserted through the cord stay hole from the lower side in Nos. 530A and 630A sets and over the hook assembled with the upper door hinge of the 300 type set so as to prevent crosses and grounds in the set and relieve the strain on the cord conductors.

5.04 Dials shall be maintained in accordance with the Bell System Practices covering dials. In the case of Nos. 530A and 630A sets it will be necessary to remove the dial in order to make speed adjustments. This may be done by

loosening the three non-removable dial mounting screws shown in Fig. 9. Avoid damage to the dial finger wheel, handset, switchhook and other parts when opening the inner door of outdoor sets.

5.05 The inner frame assembly of Nos. 530A and 630A sets is a removable unit consisting of terminal strip, condenser, ringer induction coil and switchhook. In case of trouble this assembly may be replaced by an assembly from another set or the individual defective piece of apparatus may be replaced. In the case of the No. 300 type set the individual pieces of apparatus must be replaced separately if defective. See Table 1 for list of apparatus.

6. TESTS

6.01 Make tests with the test desk in accordance with the sections in Division C60.