

TYPE 33 RINGER BOX
INSTALLATION

1. GENERAL

1.01 This section provides information for the redesigned Type 33 ringer box. The new design incorporates a modular plug and two modular line cord jacks. The box is a separate audible signal device that can be used with GTE Automatic Electric telephones that are not equipped with ringers.

1.02 This section includes information on the new plastic base developed for the Type 33 ringer box. This section also contains information on interfacing the unit with wall-mounting miniature jacks, and more comprehensive wiring information.

2. DESCRIPTION

2.01 The box (Figure 1) consists of a plastic baseplate with a molded-in terminal strip (Figure 2) and a plastic housing. When assembled, the box is 5¼ inches high, 5½ inches wide, and 2½ inches deep. The box can be equipped with straight-line, superimposed, or harmonic ringers. Figure 3 shows a Type 48 straight-line ringer assembled on the baseplate. The ringer capacitor on the ringer assembly is replaced by a cold cathode tube when superimposed ringing is desired. The box also has a terminal strip molded into the base. At this terminal strip, the ringer wiring, modular jacks, modular plugs, and telephone line cord are connected. This terminal strip eliminates the need for a line cord connecting block.

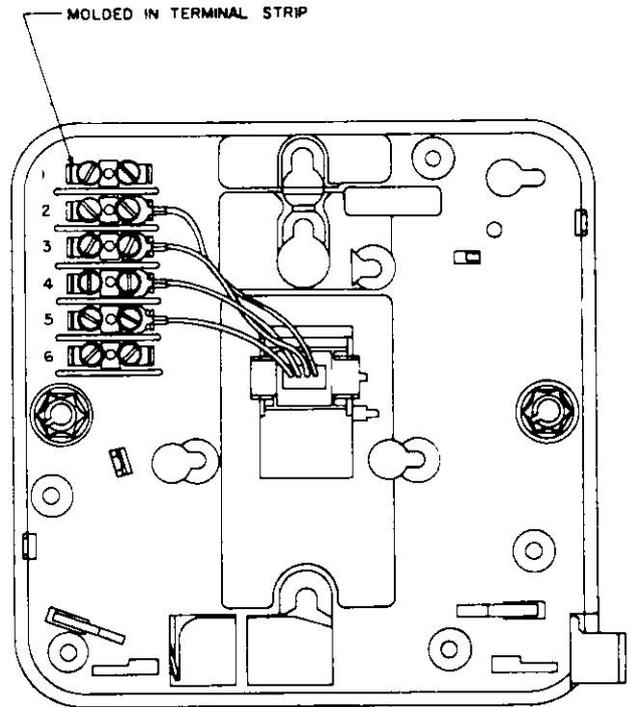


Figure 2. Ringer Box Baseplate
(Top View).



Figure 1. Type 33 Ringer Box.

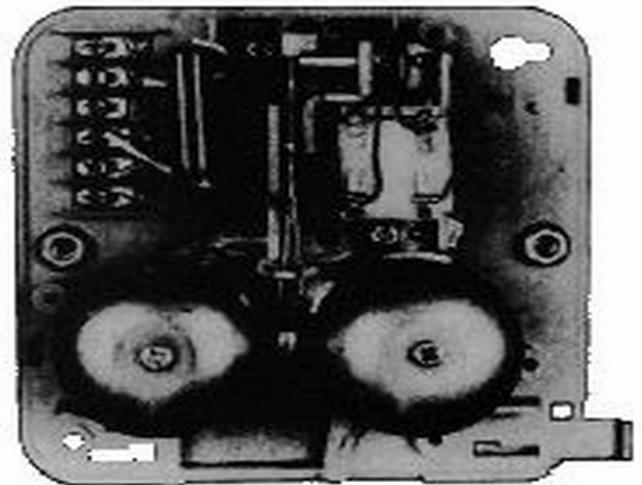


Figure 3. Ringer Box Baseplate Equipped With
Type 48 Ringer

2.02 The plastic baseplate is equipped and wired for use with a wall-mounted miniature jack. The modified version consists of two miniature line jacks, one miniature plug, a latch bar, and a return spring. Figure 4 shows the snap-in miniature plug that mates to a modular hardware jack that is flush-mounted on a wall.

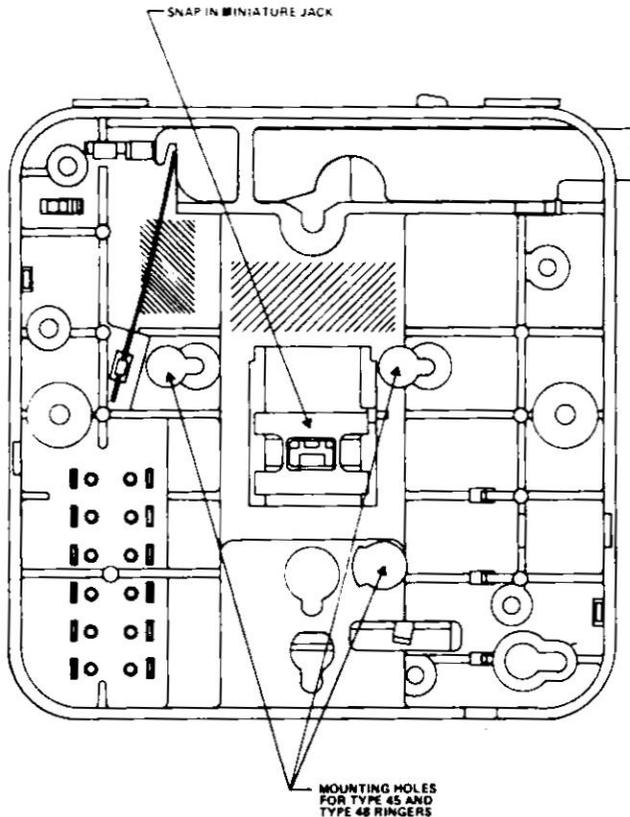


Figure 4. Ringer Box Baseplate (Underside).

2.03 The ringer box is shipped partially assembled, and requires minor assembly and wiring operations in the field. This permits greater flexibility in choosing various ringer assemblies. When the box is used with the Type 48 ringer assembly, part no. HD-560010-ASAR, the necessary assembly hardware is provided. The Type 45 ringer assembly, part no. D-56548-CXX, can be interchanged with the Type 48 ringer assembly.

3. INSTALLATION

Preliminary Procedures

3.01 Before mounting the box, perform the following preliminary procedures:

- (a) Fasten the ringer assembly to the baseplate with the three mounting screws provided. Figure 4 shows the mounting holes for Type 45 and Type 48 ringer assemblies.
- (b) Install the ringer capacitor by attaching the spade-ended terminals of the capacitor to the desired terminals of the terminal strip.

- (c) For superimposed ringing, mount the cold cathode tube on the baseplate (Figure 5) using the self-tapping screw provided.

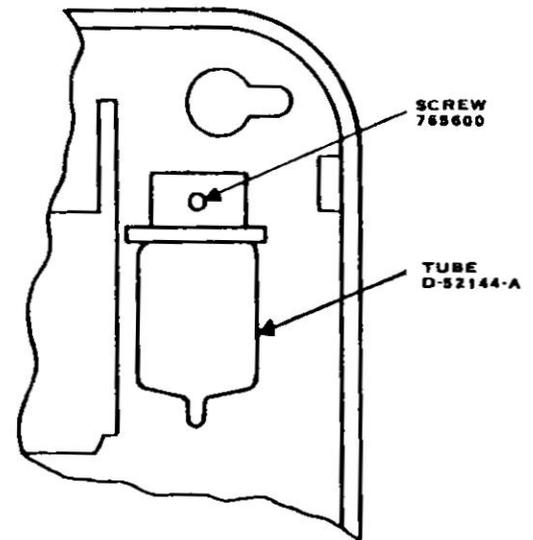


Figure 5. Cold Cathode Tube Mounting.

- (d) Remove the two securing screws from the modular jack and install two locking pins onto the screws. Reassemble the screws into the jack.

Mounting

3.02 The ringer box is equipped with two plug shells (GTE or Western Electric Company (WECO)). The insert and wire assembly is already wired to the terminal strip. Snap the insert into the GTE or WECO shell and snap this assembly into the back of the baseplate. Mount the ringer box on the jack by pressing the latch bar towards the left. Release the latching bar; the ringer box should be securely fastened to the jack.

Wiring

3.03 The ringer box is wired from the factory for bridged ringing (Figure 6). If other ringing schemes are required refer to Table 1.

4. ORDERING INFORMATION

4.01 The ordering information for the modular ringer box is: 422299 box ringer mod 33 A white L-1513-2.

4.02 The optional items are as follows:

- (a) Type 45 frequency ringer D-56548-CXXR series.
- (b) Type 48 straight line ringer HD-560010-ASAR.
- (c) Cathode tube D-52144-A.

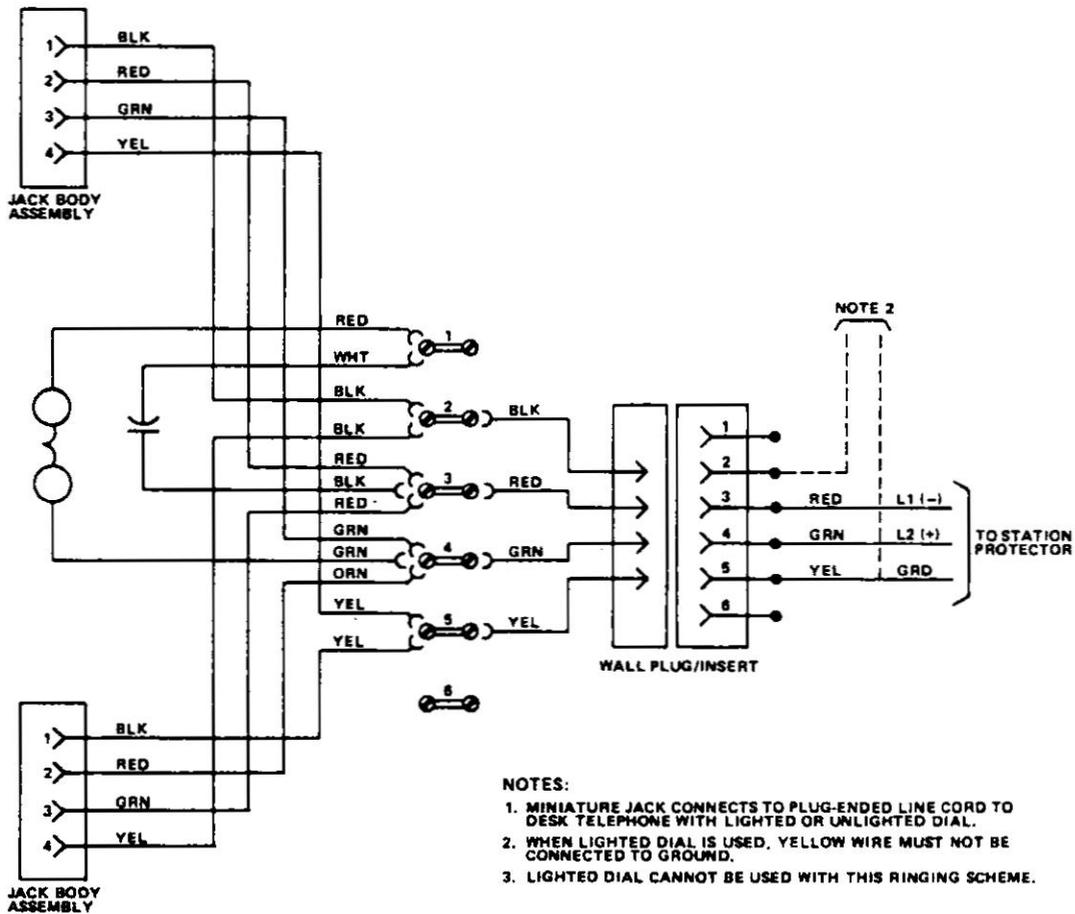


Figure 6. Wiring Diagram For Bridged Ringing.

Table 1. Wiring for Basic Modular Version of Unit, Bridged, and Divided Ringing.

TYPE OF RINGING	RINGER UNIT TERMINAL STRIP CONNECTIONS							
	CAPACITOR		RINGER		WIRING FROM MINIATURE JACKS CONNECTING TO TERMINALS			
	BLK	WHT	RED	GRN	BLK	RED	GRN	YEL
Bridged	3	1	1	4	2	3	5	5
Divided +Tip (Note)	5	1	1	4	2	3	4	5
Divided -Ring (Note)	5	1	1	3	2	3	4	5

NOTE: LIGHTED DIAL CANNOT BE USED WITH THIS RINGING SCHEME.