B-TYPE CROSS-CONNECTING TERMINALS

WIRING

CONTENTS PAGE

1. GENERAL

1.01 This section covers the installation of cross-connecting and drop wires in B-type terminals.

1.02 This section is reissued to include information on the BK-900 and BL-900 cross-connecting terminals and to update illustrations.

1.03 Use G cross-connecting wire for cross-connecting cable pairs in B-type cable terminals.

1.04 Where a cable pair becomes spare, and it appears in a cross-connecting terminal, local instructions govern removal of the cross-connection.

1.05 In referring to cable pair terminations in B-type cable terminals in this section, ***feeder cable pairs*** are the pairs from the central office and ***distribution cable pairs*** are those going to the subscriber stations.

2. INSTALLING CROSS-CONNECTING WIRES

2.01 The stub cable pairs are connected to the binding post which have a horizontal count of up to ten pairs in a row. The appropriate binding post numbers are stenciled on the faceplate (numbering strips on BG- and BF-type cable terminals) for identification (Fig. 1).

2.02 Install cross-connecting wires in accordance with the following procedures:

(a) Insert one end of the paired wire through the proper wiring hole for the binding posts of a distribution cable pair. Cross-connect wires terminated on the left side of the terminal are routed through the wiring holes slightly above the binding post. Cross-connect wires terminated on the right side of the terminal are routed through the wiring hole slightly below the binding post.

Note: On 300-, 400-, 600-, and 900-pair terminals, the inside wiring holes on the left and right sides of the terminal are used for the first two and last two pairs of binding posts, respectively. Use the outer wiring holes for all other terminations.

(b) Terminate the cross-connecting wire under the lower washers on the binding posts.

(c) When cross-connection is to be made on the same side of the chamber, run the wire in the wiring channel behind the faceplate extension and through the proper wiring hole for the binding posts of the cable pair.

(d) When cross-connection is to be made between opposite sides of the chamber, proceed as follows:

(1) In 100-, 200-, 300-, and 400-pair terminals equipped with wiring shelves, route cross-connecting wire terminating on the top third of the feeder cable pairs over the wiring shelf as illustrated in Fig. 1. Run cross-connecting wire to the remaining feeder cable pairs around the bottom of the chamber behind the wire guards. In the case of the 600- or 900-pair terminal, route cross-connecting wires over any of the three wiring shelves in the back of the chamber or around the bottom of the

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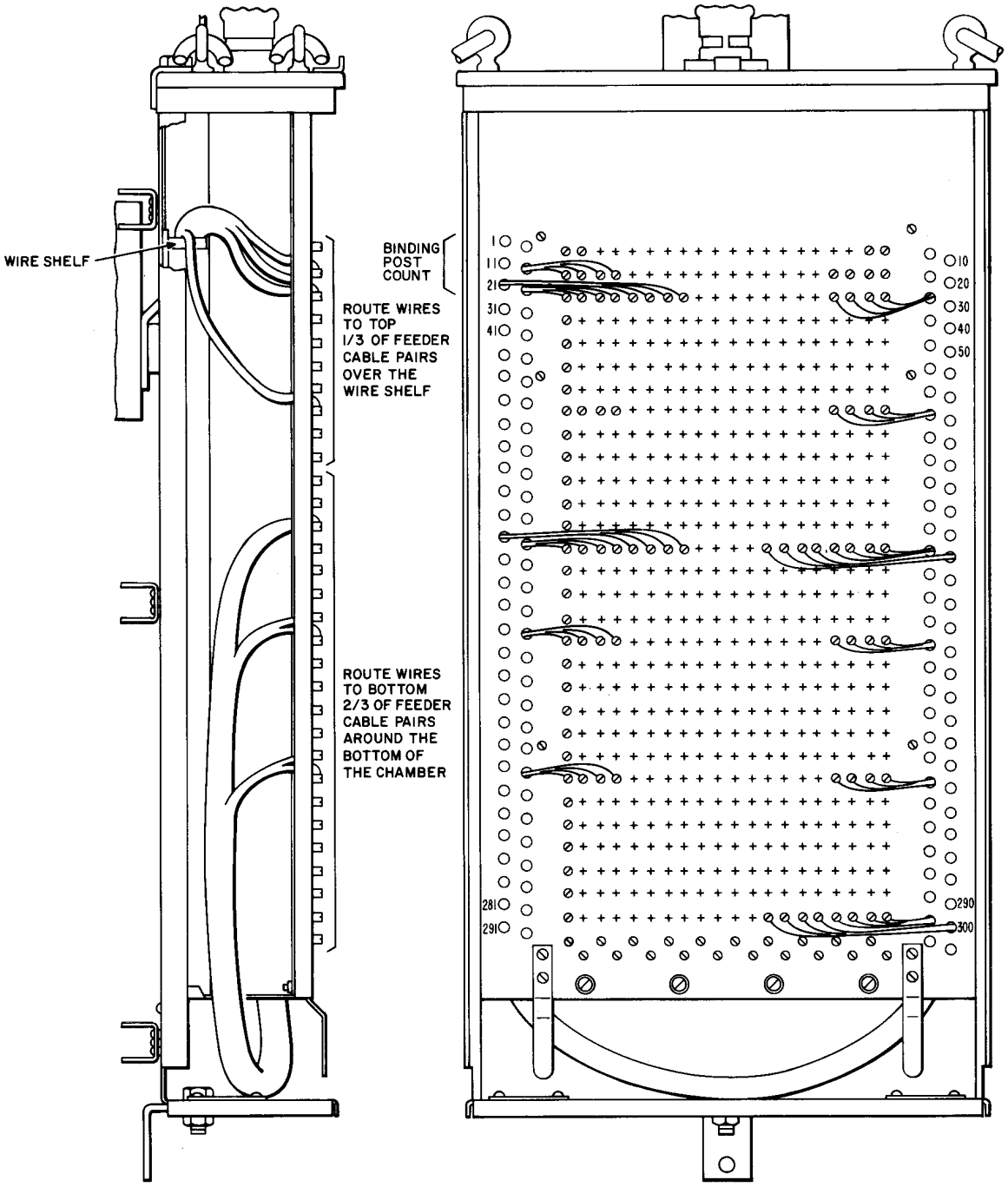

Fig. 1—Running Cross-Connecting Wire

chamber, whichever provides the shortest routing.

(2) In terminals not equipped with wiring shelves, route cross-connecting wire around the bottom of the chamber. Do not run cross-connecting wires through the M bridle rings provided at the top of the terminal housing. These rings are intended for drop wire connections.

(e) Allow about 2 inches of slack in each cross-connecting wire. Where, on a subsequent line change, a wire is found to be too short, run a new connection rather than splice out the short one.

(f) Where it is necessary to assign two distribution cable pairs to form a party line, cross connect both distribution cable pairs to the feeder cable pair. Terminate one cross-connecting wire under the lower washer and the other wire between washers on binding posts of the feeder pairs. When more than two distribution cable pairs are required for bridging, cross connect the first two distribution cable pairs to the feeder cable pair as previously outlined. The additional bridges are connected one to each of the associated distribution cable pairs. Terminate one wire under the lower washer and the other wire between washers on the binding posts of the distribution pair.

3. INSTALLING DROP AND BLOCK WIRE

BF- AND BG-TYPE CABLE TERMINALS (MD) AND BH-, BJ-, BK-, AND BL-TYPE CABLE TERMINALS

3.01 Install drop wire in pole-mounted terminals in accordance with the following procedure:

(a) Place bridle rings on the pole as shown in Fig. 2.

(b) Where a drop wire is to be terminated on the right side of the terminal chamber, run the wire down the right side of the pole behind the terminal, through the two rings below the terminal, and into the wire entrance holes on the bottom left of the terminal box. The routing is shown in Fig. 2. Where the drop wire is to be terminated on the left side of the terminal chamber, run the wire down the left side of the pole behind the terminal, through the two rings below the terminal, and into the wire entrance holes on the bottom right of the terminal box. The routing is shown in Fig. 2.

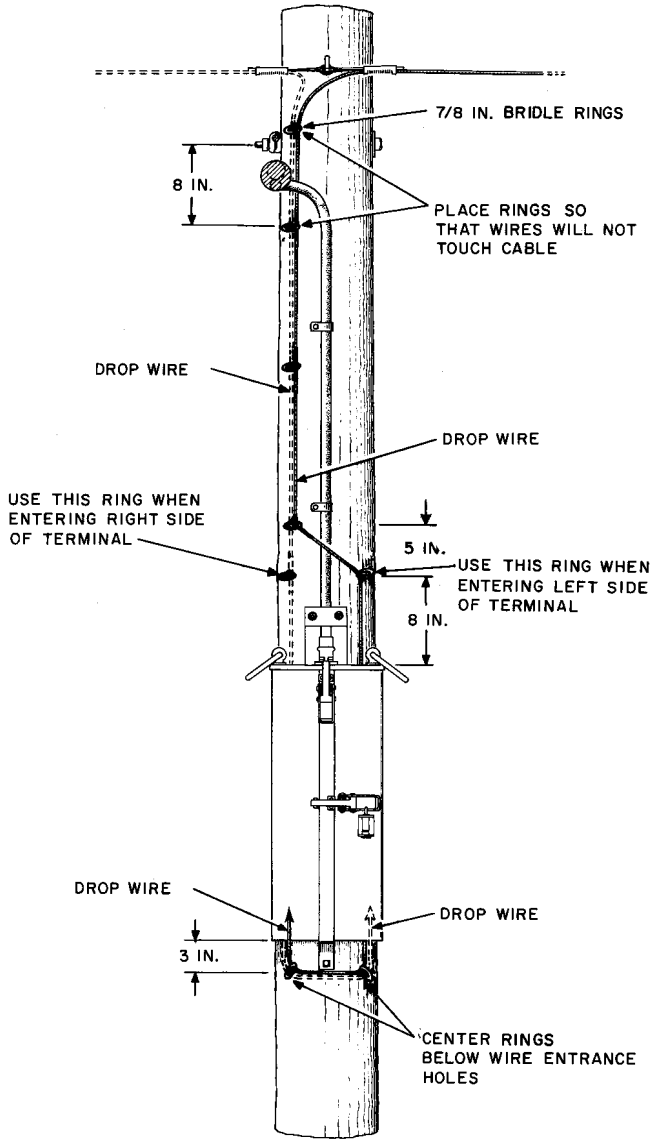

Fig. 2—Running Drop Wire

(c) Insert the drop wire into one of the entrance holes located in the bottom of the terminal housing.

(d) Install G cross-connecting wire between the feeder pair binding posts and a vacant drop

wire binding post. Then terminate the drop wire as shown in Fig. 3.

SUPERSEDED BD AND BE TERMINALS

3.02 Binding posts for terminating drop wire are not provided on the superseded BD and BE terminals. Drop wires are installed in these terminals as follows:

(a) Proceed as in 3.01 (a) through (c).

(b) Run the drop wire upward in the wiring channel behind the faceplate extension on

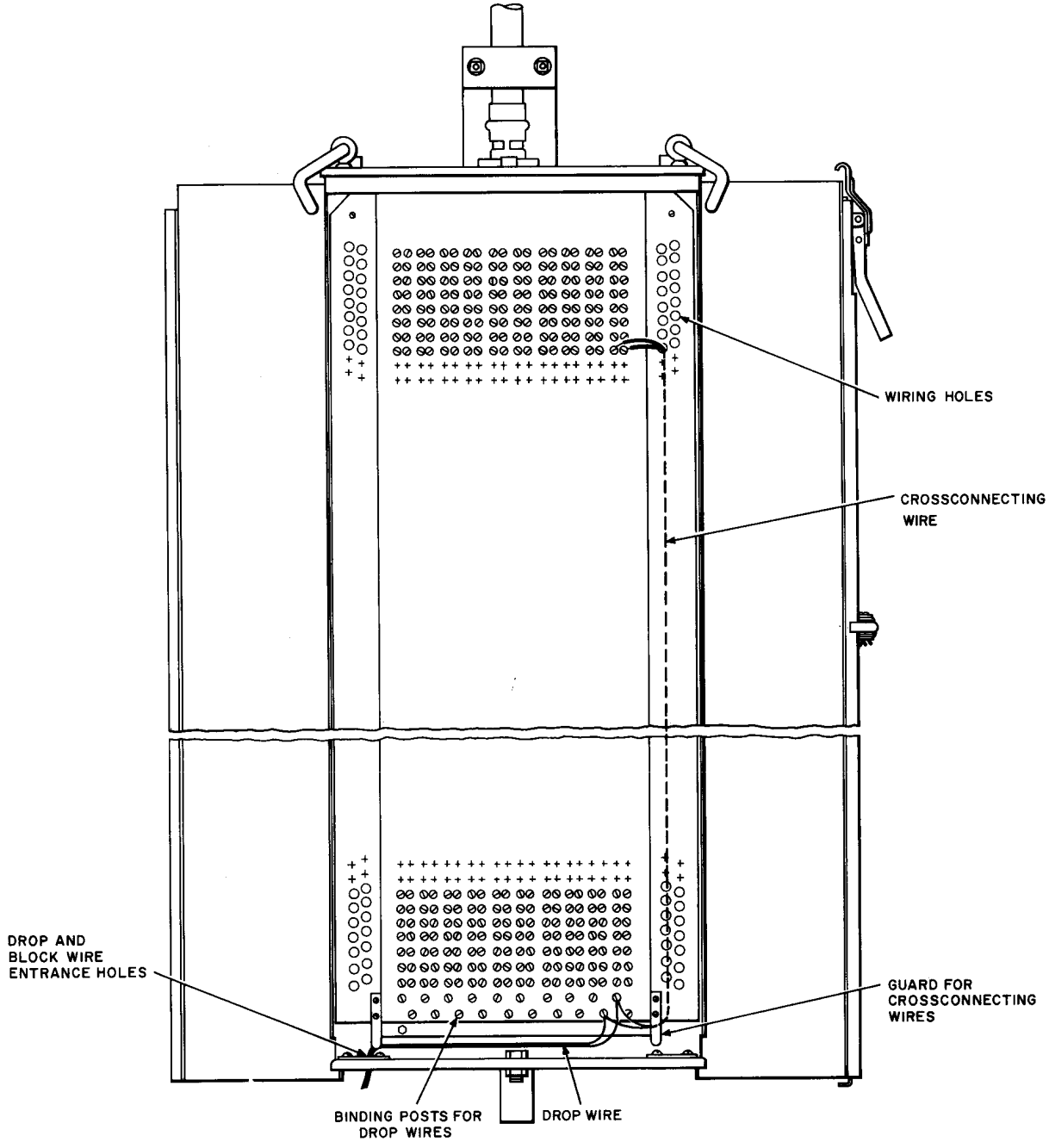

Fig. 3—Terminating Drop Wire—BF-, BG-Type Terminals (MD) and BH-, BJ-, BK-, and BL-Type Terminals

the side of the chamber opposite the binding posts on which it is to be terminated, then over the top wiring shelf or the two rings located at the top of the housing, and downward to the proper wiring hole. The routing of wires entering the terminal on the left and right sides is illustrated in Fig. 4. Terminate drop wire between washers on the binding posts of the feeder pair unless two wires are already terminated on these posts. Where one of these two wires

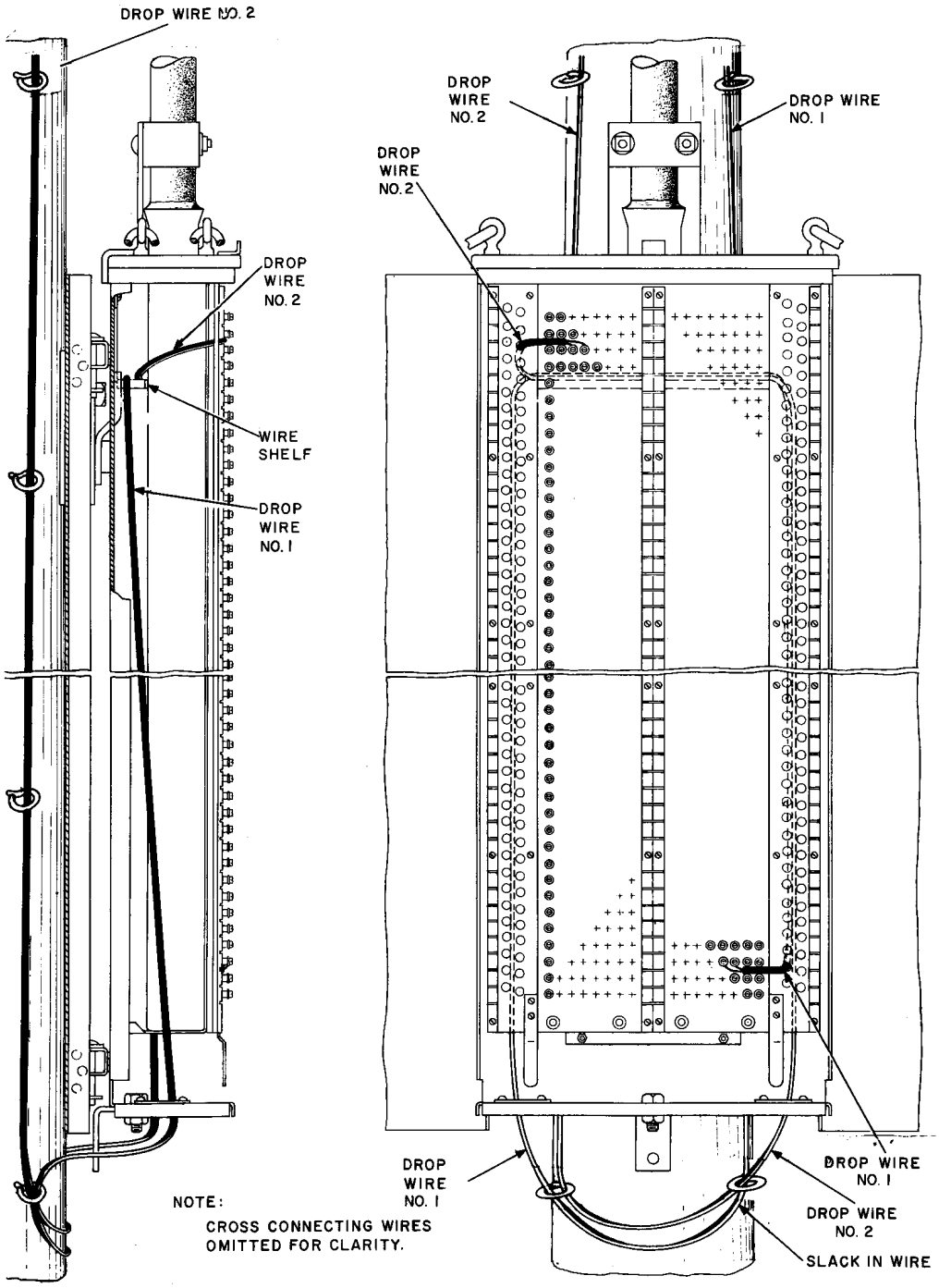

Fig. 4—Terminating Drop Wire—Superseded BD and BE Terminals

is a cross-connecting wire, terminate the second drop wire on the distribution cable pair, but not more than two wires should be bridged on the binding posts of the distribution cable pair. Where more than two wires are to be bridged to the same cable pair, install a 101-type wire terminal on the pole outside the terminal, and bridge the new drop and one of the existing drops in the wire terminal.

(c) Insert the wire into the proper wiring hole, cut wire to proper length, and terminate on the binding post with tracer conductor to the right. Place wire under the lower washer unless the space is occupied by an existing wire, in which case, place the second wire between washers.

3.03 When slack is required in connection with transferring a drop to another cable pair or reinstalling a wire, reroute the drop around the bottom of the chamber in a terminal equipped with wiring shelf or remove wire from the M rings at the top of the terminal. Where still more slack is needed, splice wire inside the terminal and run the spliced wire over the top as in the case of a new connection.

TERMINATING BLOCK WIRE

3.04 Install block wires in wall-mounted terminals in the manner described for drop wire.