INSTALLATION 505B, 505C, 506A AND 506B PBX

1. GENERAL

- 1.01 This section covers the general requirements and methods for installing the 505B, 505C, 506A 506B PBX.
- 1.02 This section is reissued to convert it to letter size and to incorporate material from the addendum in its proper location. In the process of this conversion, marginal arrows have been omitted.
- 1.03 Both the metallic return and ground return feeder arrangements are covered herein. To minimize noise effects on PBX stations and to prevent possible electrolysis damage to lead sheath cables or underground pipes, the ground return feeder arrangement should not be used when additions or changes in the PBX facilities are involved unless authorized by specific local instructions.

1.04 In connection with the installation work, reference should be made to the Bell System practices covering forming, fanning, connecting, etc, when performing work of this nature.

2. TOOLS AND MATERIALS

2.01 Certain tools and materials are specified in the practices covering specific installation methods. In addition a test receiver (No. 528 or equivalent) equipped with cords and clips will be required.

3. REQUIREMENTS AND METHODS

Preparation

- 3.01 Select a location for the PBX that meets the customer's approval and is satisfactory from the following standpoints:
 - (a) A dry location should be selected. Do not select a place under a window where rain might enter. Avoid a location adjacent to or under steam or water pipes where moisture from sweating might penetrate the board.
 - (b) Dusty places or locations where corrosive fumes are likely to be present should be avoided.
 - (c) Excessive vibration due to machinery or any other cause should be investigated to determine that it is notsevere enough to affect the operation of the equipment.
- 3.02 When installing a 505 type PBX loosen the four lock screws at the top of the front panel and remove the top of the switchboard and lower the front panel.
- 3.03 When installing a 506 type PBX loosen the three lock screws, two at the top of the front panel and one in the bottom rail of the rear panel, and remove the cover.

Installing Cross-Connecting Terminal Box Installation of Terminal Box

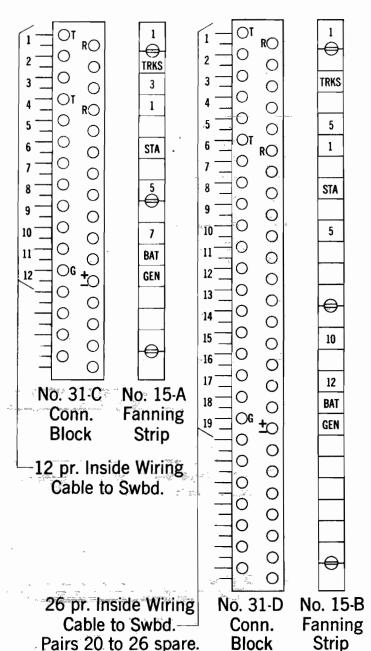
3.04 Locate the terminal box at a point where it will be convenient to the wire center of the installation and fasten to the wall as covered in the section on installation of inside cross-connecting terminals of the Bell System Practices.

Installation of Connecting Blocks and Fanning Strips

3.05 Place as indicated by Fig. 1. If available space in an existing terminal box is to be used, place the connecting blocks and fanning strips as covered in the section on installation of inside cross-connecting terminals of the Bell System Practices.

Lettering and Numbering

3.06 Letter and number fanning strips and connecting blocks according to Fig. 1, using 3/16-inch rubber stamps and in conformity with the Bell System Practices.



These arrangements will also apply in using No. 30 type connecting blocks or No. 102 type adapters.

Fig. 1—Typical Arrangement at Cross-Connecting Terminal Box.

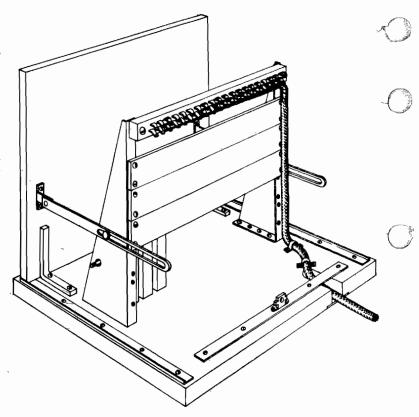
Running Cable Between Cross-Connecting Terminal and PBX

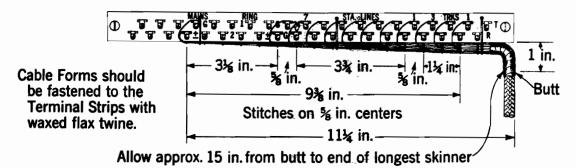
3.07 Run cable in accordance with the instructions covered in the sections of the Bell System Practices on placing and fastening wire and cable in buildings leaving sufficient length at the ends for terminating. See Figs. 2 and 3 for method of entering cable into PBX sections.

3.08 When the PBX is to be placed on a desk, table or some movable object, reference should be made to the sections of the Bell System Practices on placing and fastening wire and cable at desks and tables. Sufficient slack should be left in the cable to allow for moving desks, tables, etc, for maintenance purposes. This slack should be coiled up at a point where it will be out of sight and the coil fastened with friction tape.

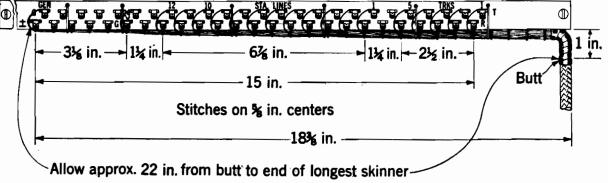
3.09 In cases where, due to a moisture condition, lead covered cable is required instead of inside wiring cable as indicated by Fig. 1, it will be necessary to remove the cable sheathing between the PBX and a point where the cable enters a floor outlet, standpipe or similar fitting or where it first fastens to the baseboard, etc. Cover the conductors thus exposed with two layers of friction tape starting at a point on the sheathing approximately one inch beyond the butt and extending to a point on the cable form as shown in Figs. 2 and 3.

- 3.10 Form, fan and sew the end of the cable for connection at the PBX as shown in Figs. 2 and 3.
- 3.11 Place formed cable into position in the PBX in aecordance with Fig. 2 or 3, leaving enough slack so that there will be no strain on the skinners after they are connected.
- 3.12 Skin and connect cable to terminals in accordance with the designations indicated on the terminal strip.
- 3.13 Form, fan and sew the end of the cable for connection at the cross-connecting terminal according to Fig. 1.
- 3.14 Place formed cable into position in terminal box, skin and connect to terminals. (Do not connect battery feeders until after making check covered in paragraph 3.17)



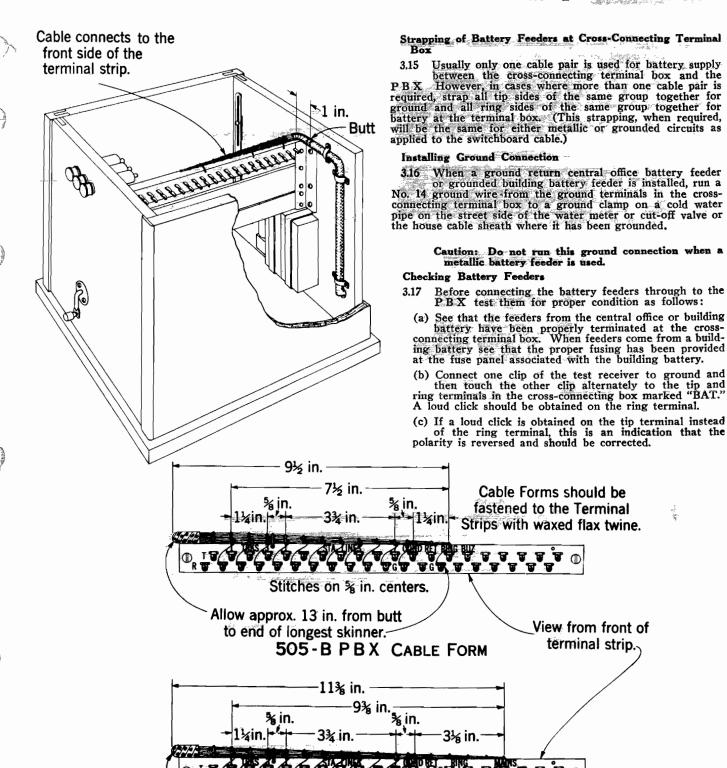


506-A P B X CABLE FORM



506-B P B X CABLE FORM

Fig. 2-Typical Cabling Arrangement for 506 Type PBX



505-C PBX CABLE FORM

Stitches on % in. centers.

Allow approx. 15 in. from butt — to end of longest skinner.—

Fig. 3—Typical Cabling Arrangement for 505 Type PBX

3.18 Disconnect the test receiver and connect the battery feeders through to the PBX at the cross-connecting terminal box.

Miscellaneous Work Items

Modification of Buzzer Circuit

3.19 When necessary for the installer to change the buzzer circuit from a.c. to d.c. operation or from d.c. to a.c. operation, the work should be done in accordance with the circuit drawing.

Installation of Attendant's Telephone Instrument

3.20 Run the cord from the attendant's telephone instrument through the cord hole, located in the upper part of the left end panel on the 505 type boards or in the lower left side of the front panel on the 506 type boards, and connect to the cord fasteners as indicated by the designations. Also fasten the tie string or stay hook.

Modification of P.B.X When Hand Generator is not Furnished

3.21 When a hand generator is not furnished with the PBX the contacts on the ringing transfer key (G) or (RINGING) should be strapped together so that, regardless of the position of the key button, ringing current will be connected to the station line ringing keys.

3.22 The hole drilled in the end panel for the generator handle should be covered by an escutcheon plate on 506 type boards or have an apparatus blank inserted into it on 505 type boards.

4. INSTALLATION TESTS

4.01 The tests and inspections required in connection with the installation work as covered by Section 536-050-230 should be made before turning over the equipment to the customer for use.