

PREPARATION FOR INSTALLING - 750A PBX

1. GENERAL

- 1.01 This section covers general requirements and methods concerning the work of preparing for a No. 750-A P B X installation.
- 1.02 This section is reissued to cover minor changes and replaces Provisional Standard Issue 1.
- 1.03 Reference should be made to the Bell System Practices for cabling information when preparing for the installation.
- 1.04 Cables of the proper sizes and lengths should be provided. For 15 line cabinets specify one 76 pair dry core cable between the main cross-connecting terminal and the cabinet; cut to exact length and waxed at the ends. Where it is not the practice to furnish cable with the ends waxed, two waxed core cables may be employed. These should be a 51 pair cable and a 26 pair cable. In the case of an installation having only a few stations but requiring 3 trunks, a single 51 pair cable, if adequate, may be used with the 15 line cabinet. A single 51 pair waxed core cable should be used at installations of 8 line cabinets.
- 1.05 Material for protecting the customer's premises or the equipment during the installation should be provided if required.
- 1.06 Detailed instructions including a sketch, if necessary, should be prepared for the installer.

2. WORK NECESSARY ON CUSTOMER'S PREMISES WHEN PREPARING PLANS

Locating Apparatus Cabinet

- 2.01 Select location for apparatus cabinet that meets customer's approval and is satisfactory from the following standpoints:
 - (a) **Clearance** for bringing the cabinet through doorways, passageways, etc., is essential. If necessary, measure width and height of doorways, archways, etc., to make sure that the cabinet will pass. The crated cabinet is 65 inches high, 34 inches wide and 27 inches deep. The uncrated cabinet is 60 inches high, 31 inches wide and 22-5/8 inches deep.
 - (b) **Space must be unobstructed** by water pipes, conduits, etc., and grounded objects should clear sides and top by at least 1 inch. The cabinet should clear the wall by approximately 2 inches to give room for entering cable. Room to open cabinet door wide enough to lower the metal platform is necessary. This requires 2 feet, 8 inches in front of the cabinet. The platform must be provided with a firm support in the horizontal position. Avoid a location in a passageway where the open door or lowered platform would create a hazard to persons passing or to men working on the equipment.
 - (c) **An accessible place is necessary.** Do not select a place in a room to which it is difficult to obtain entrance.
 - (d) **Floor is strong** enough to safely support the cabinet. The cabinet equipped with 8 lines weighs approximately 600 pounds and the 15 line cabinet weighs approximately 700 pounds.
 - (e) **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 cabinet.
 - (f) **Excessive vibration** due to machinery or any other cause should be investigated to determine that it is not severe enough to affect the proper operation of the equipment.
 - (g) **Dusty places** or locations where corrosive fumes are likely to be present should be avoided.
 - (h) **A wooden base** is ordinarily furnished as a part of the cabinet. Where a wooden base is not furnished it is necessary to provide one where there is any possibility of dampness, or to insulate the cabinet from concrete and

similar floors of electrically conducting material when a central office metallic battery feeder is employed.

Locating Main Cross-Connecting Terminal

- 2.02 Select a location for the main cross-connecting terminal which will be close to the wire center of the installation and satisfactory to the customer or building management, if one with suitable space for the necessary connecting blocks is not already installed in connection with building wiring, etc.
- 2.03 Locate terminal in an accessible place where good lighting conditions exist, if possible.
- 2.04 Avoid locating terminal near a window where the box may become wet, or in a damp, dirty or inaccessible place.
- 2.05 Avoid locations near electric circuits, cutouts, switches, moving machinery, hoists, door shutters, etc.

Locating Copper Oxide Rectifier

- 2.06 When a rectifier is to be provided refer to the requirements in the section in this division covering the installation of this equipment.

Locating Ringing Machine

- 2.07 When a ringing machine is to be provided, refer to the requirements in the section in the Division covering the installation of this equipment.

Locating Station Apparatus

- 2.08 Assist the customer in selecting locations for subscriber sets, lamp indicators, extension bells, emergency trunk key and control cabinet for keyless stations.

Conduit Installations

- 2.09 **When a conduit installation** is to be provided for concealing the cables and wires, as is frequently done in modern homes, it is desirable to cooperate with the customer or his agent in order that conduits of suitable size may be installed.

3. DETAIL PLANS

- 3.01 The instructions given the installer should cover the following points:
 - (a) **Location of Apparatus Cabinet:** In giving location allow a minimum of two inches clearance from the wall. If special precautions concerning insulating the cabinet from pipes, etc., are necessary instruct the installer accordingly.
 - (b) **When the cabinet is not equipped with a permanent wooden base,** one should be specified if needed for insulating the cabinet from ground or to provide a level mounting. Should it be necessary to provide a base of greater height than that furnished with the cabinet or shown in Section 548-500-210, Figure 2, arrange to furnish the installer a special base or information for constructing and placing such bases.
 - (c) **Location of cross-connecting box or boxes:** The connecting blocks for terminating the cable from the cabinet should be clearly indicated.
 - (d) **The location of cable or wire runs:** Indicate the location of each cable run and also give number of conductors in each run and information as to whether the installer or another department will run the cables.
 - (e) **The point at which conductors from the central office** will be terminated by the Outside Plant forces.
 - (f) **Location of copper oxide rectifier** and its associated electric service outlet if a rectifier is to be provided.
 - (g) **Location of station equipment,** including subscriber sets, ringers, lamp indicators, emergency trunk key and control cabinet with the number assigned to each station given.
 - (h) **Cross-connection changes** on the No. 199-A terminal strips. The information for this appears in Section 548-500-210.
 - (i) **Location of ringing machine** and its associated electric service outlet if a ringing machine is to be provided.

