

PREPARATION FOR INSTALLING
550B, 550C, 550SC, 551A, 551B, 552B, 555, 556A, 557A, OR 557B PBX

1. GENERAL

1.01 This section covers general requirements concerning the work of preparing for the installation of a No. 550B, No. 550C, No. 550SC, No. 551A, No. 551B, No. 552B, No. 555, No. 556A, No. 557A, or No. 557B PBX.

1.02 This section is reissued to include the No. 552B, No. 556A, No. 557A, and No. 557B PBXs. The crated dimensions for the various PBXs have been deleted due to variances in packaging. Since this reissue covers a general revision, arrows ordinarily used to indicate changes have been omitted.

1.03 This section supplements the installation sections for the separate types of PBXs. Reference should also be made to the sections which cover common work operations such as cabling, wiring, mounting of equipment, etc.

2. TOOLS AND MATERIALS

2.01 The tools normally used for PBX installations will be required.

2.02 Any materials required for protecting the customer's premises or the equipment during installation should be provided.

3. PLANNING

Locating Switchboard

3.01 Select a location that meets the customer's approval and is satisfactory from the following standpoints.

- (a) Clearance for bringing the switchboard through doorways, passageways, etc, is essential. If necessary, measure width of doorways, archways, etc, to make sure that the switchboard will pass. The dimensions of the PBXs covered in this section are shown in Table A.
- (b) Space must be unobstructed so as to permit access to the front and rear of the switchboard. The back of the switchboard shall not be less than 30 inches from the wall or other obstruction. There should be, in general, a minimum clearance of approximately 40 inches in front of the key-shelf for operating purposes.
- (c) A location should be selected for the switchboard and the associated equipment that is free from excess dust, corrosive fumes, etc.
- (d) Excessive vibration due to machinery or any other cause shall be investigated to determine that it is not severe enough to affect the operation of the equipment.
- (e) Care should be taken to locate the switchboard so that natural or artificial light will not make it difficult for the attendant to see the signals. If no other location is available, the subscriber should be advised that the light will affect the visibility of the signals and that steps should be taken to reduce the light by the use of shades or other suitable means.
- (f) It is desirable that the location selected for the PBX have an electric outlet reasonably close.

TABLE A			
DIMENSIONS OF PBXs			
PBX	HEIGHT*	WIDTH*	DEPTH*
550B or 550C			
30 Line	46	26	29-1/4
80 Line	48-3/4	27-5/8	31-1/4
320 Line	51-9/16	28-1/4	35-7/8
550SC			
30 Line	45-1/4	25-1/4	35
80 Line	51-1/16	25-1/4	35
551A	46	24-1/2	29-3/8
551B	51-3/16	26-7/8	34-1/2
552B	51-3/16	26-7/8	34-1/2
555	46	29-3/8	29-7/16
556A	46-1/16	29-3/8	29-7/16
557A	59-7/8	29-3/8	29-7/16
557B	51-3/16	29-3/8	31-3/4

*Uncrated Dimensions Expressed in Inches

Locating PBX Cross-Connecting Terminal

3.02 If a location with space for the necessary binding post chambers or connecting blocks is not already installed in connection with building wiring, etc, select a location that is satisfactory from the following standpoints.

- (a) Select a location which will be convenient to the wire center and satisfactory to the customer or building management.
- (b) Place the terminal in an accessible location where good lighting and safe working space exists.
- (c) Avoid locating the terminal near a window where the box may become wet or excessively dirty. Locations near electrical circuits, cutouts, switches, moving machinery, hoists, door shutters, etc, should be avoided.
- (d) For 555 PBX installations consideration should be given to the feature which provides space in the bottom of the switchboard for termination of incoming or local distribution cable and making cross connections.

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Cabling

3.03 In selecting a location for the PBX and cross-connecting terminal box, consideration shall be given to the location of the cable run.

3.04 Consideration shall be given to the ultimate capacity of each position in estimating cable pair requirements, i.e., stations, trunks, battery, ringing current, tie lines, etc.

Conduit Installations

3.05 It is desirable to cooperate with the customer or his agent in order that conduits or other wiring facilities of suitable size may be installed for concealing wires and cables.

Locating Power Plant

3.06 If a power plant is required, adequate space should be provided as close as possible to the wire center or PBX. For space requirements, see the installation section for the type of plant to be used.

3.07 When a commercial power supply is required to operate a power plant, consideration should be given to locating the power plant near an existing outlet. If this is not feasible an outlet should be provided near the power plant. The outlet shall not be under control of a switch, and it is desirable to have it separately fused.

4. MOVING AND HANDLING THE PBX

4.01 When required to move or carry the PBX, precautions shall be taken to guard against personal injury.

4.02 Handle the PBX in its packaging whenever possible.

4.03 Use a roller dolly to avoid carrying whenever possible.

4.04 When handling the PBX, avoid jarring it excessively as this can result in breakage or disarrangement of the equipment.