

BELL SYSTEM PRACTICES
Outside Plant Construction
and Maintenance

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INSTALLATION OF 121 PROTECTORS AND FANNING STRIPS

(Dwg. No. ED-95109-70)

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1. GENERAL

1.01 This section covers the installation of the 121 protectors and fanning strips (Dwg. No. ED-95109-70) on main distributing frames.

1.02 For the purpose of this practice the term "frame room" will mean the room in which the main distributing frame is located.

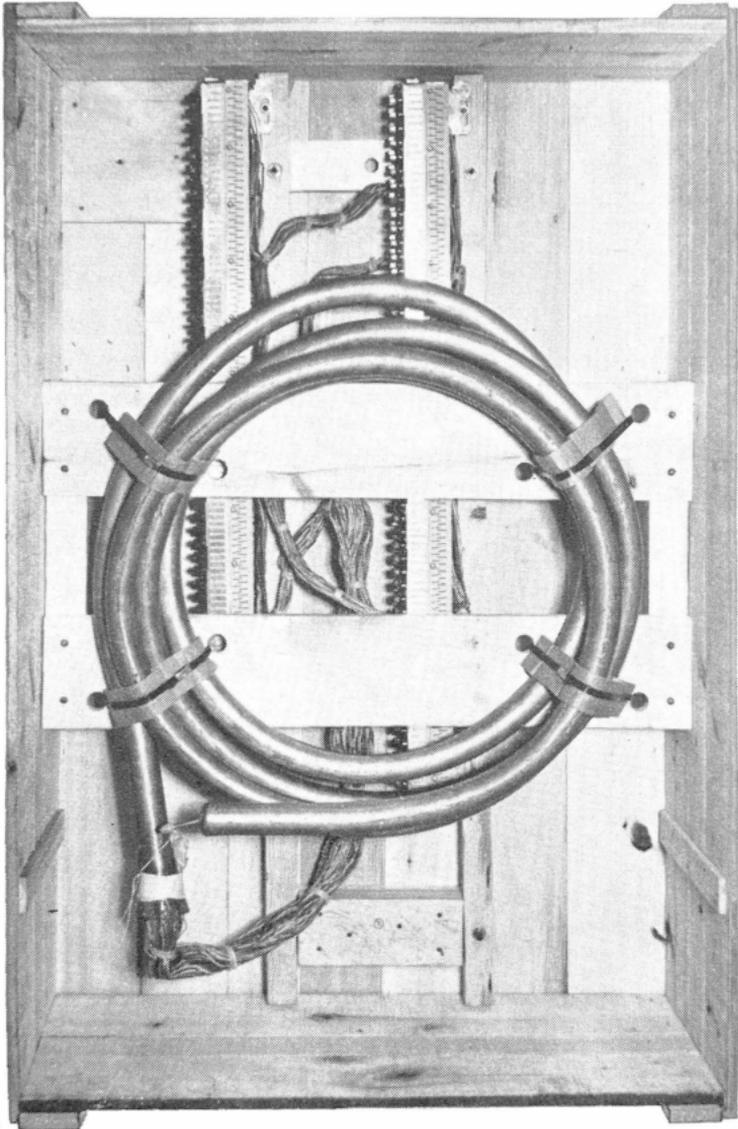
2. PRECAUTIONS

2.01 121 protectors equipped with cable stubs will be furnished with the stub under 5 to 12 pounds gas pressure. Before installing the protector, check for gas pressure.

2.02 To prevent kinking the sheath of the stub, the usual precautions should be taken. In addition, the stub may be left under gas pressure while installing the protector and setting up the cable stub.

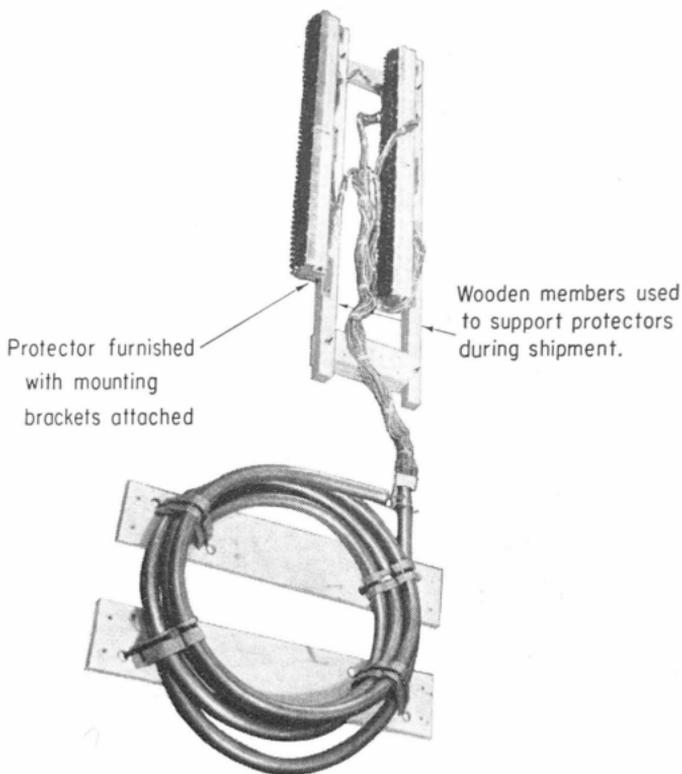
3. INSTALLING PROTECTORS EQUIPPED WITH STUBS

3.01 Protectors with stubs are crated as follows:



200 PAIR 121 PROTECTOR IN SHIPPING CRATE

3.02 When unpacking protectors with stubs leave the protectors and mounting brackets intact and attached to the wooden member used to support them during shipment. The wooden members will provide a support for the protectors during further handling, and should remain attached until the protectors are transferred to the frame.

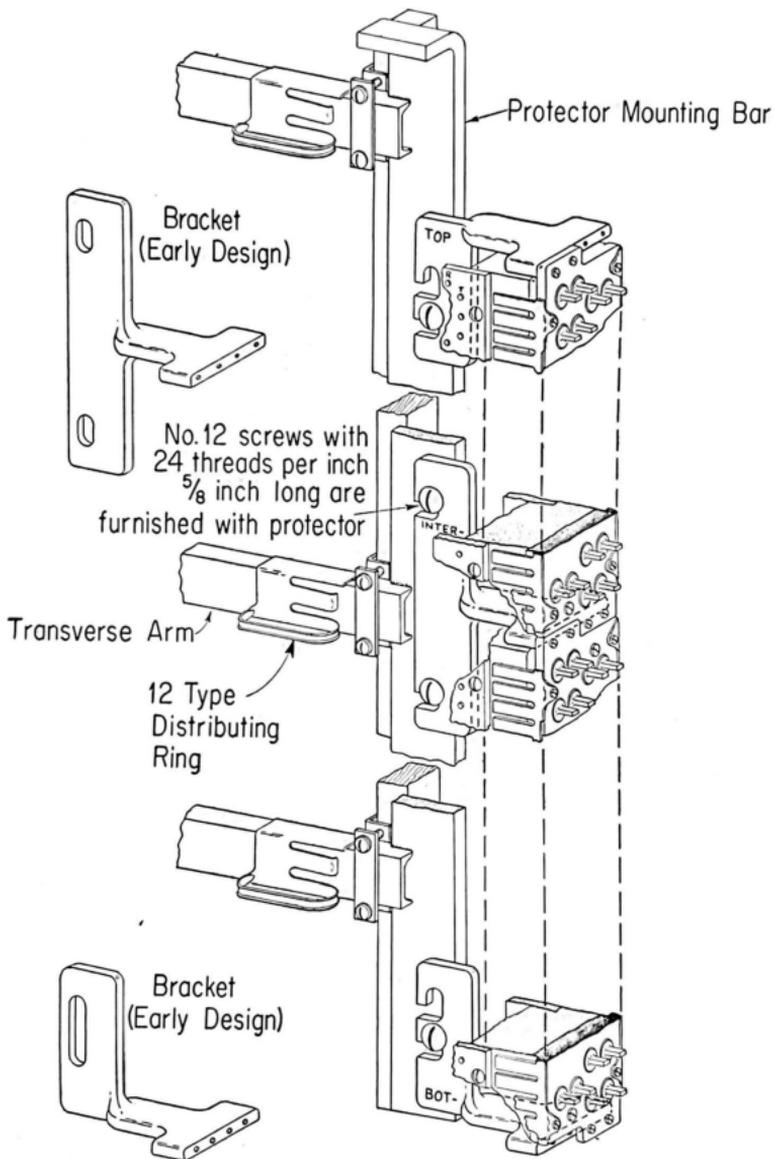


200 PAIR 121 PROTECTOR REMOVED FROM SHIPPING CRATE

3.03 In locations where there are cable vaults, uncoil the stub of the protector and feed it from the frame room into the cable vault prior to mounting the protector on the frame.

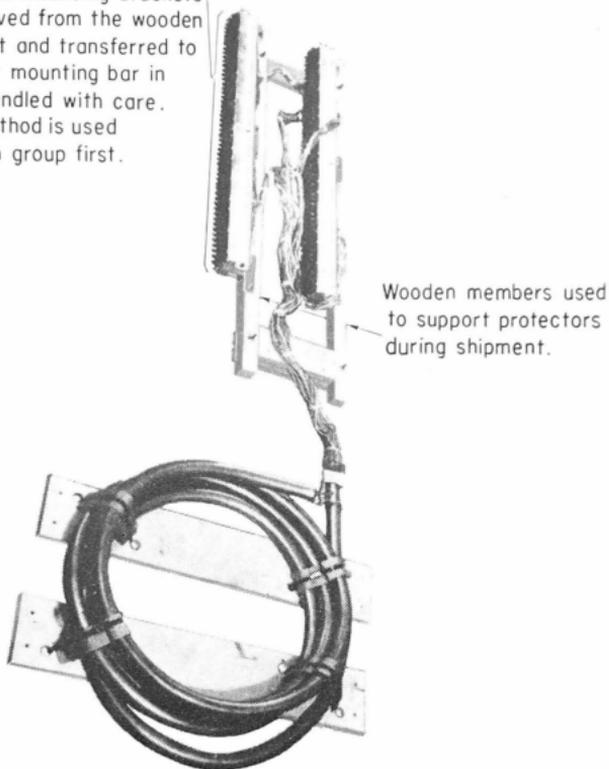
3.04 Where there are no cable vaults the method of placing the stub can best be determined on a local basis by those familiar with the conditions.

3.05 To mount the protectors on the frame, start the No. 12 screws, for mounting the protectors, in the holes of the protector mounting bar at the proper locations. Turn the screws until about 6 threads or 1/4 inch of the screws engage.

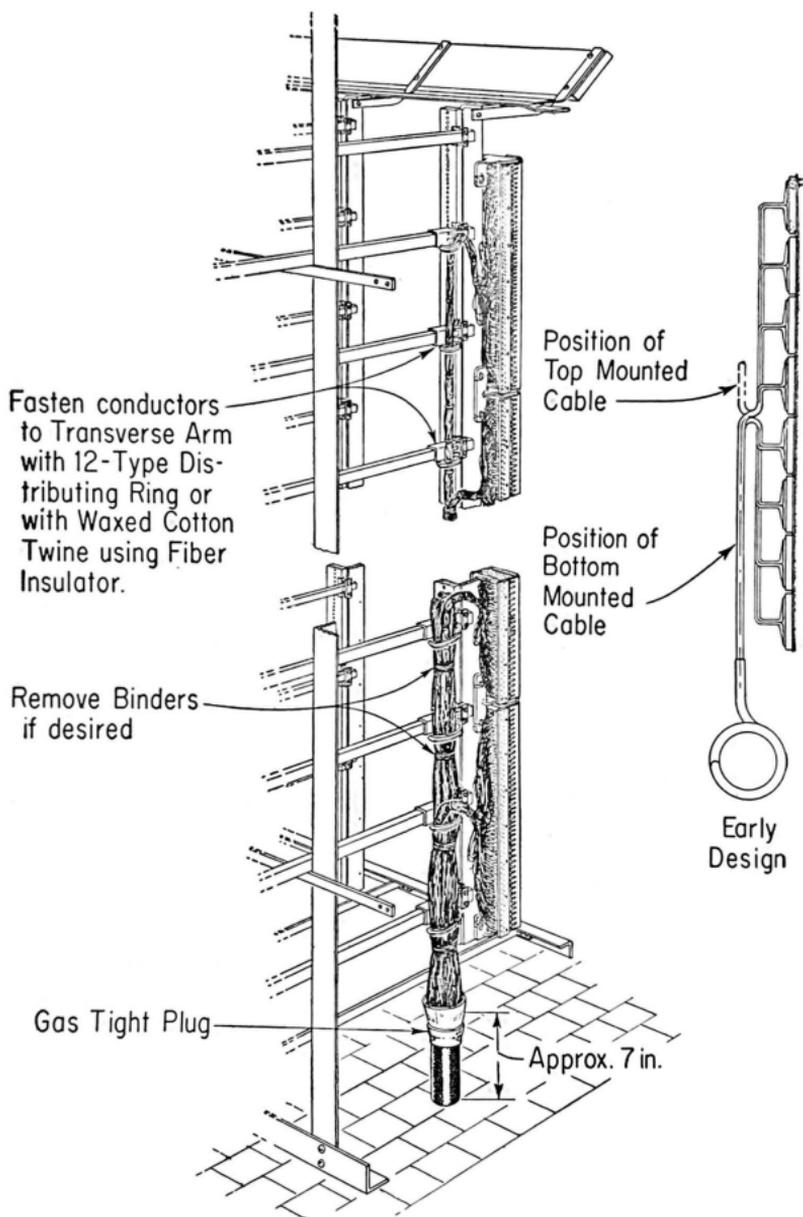


3.06 Loosen the screws that attach the mounting brackets to the wooden supports. Transfer the protectors and mounting brackets intact to the screws that have been started in the protector mounting bar and tighten the screws.

Protectors and mounting brackets may be removed from the wooden member intact and transferred to the protector mounting bar in groups, if handled with care. When this method is used mount bottom group first.



3.07 The completed installation will appear as shown in the following illustration:



3.08 An alternate method of mounting the protectors is to detach the protectors from the mounting brackets, remove the mounting brackets from the wooden supports and transfer them to the protector mounting bar. Then reattach the protectors to the mounting brackets.

3.09 The extra cable pairs in the stub form will appear in the longest group of conductors. It is not necessary to ground these pairs to the main frame.

4. INSTALLING PROTECTORS WITHOUT STUBS

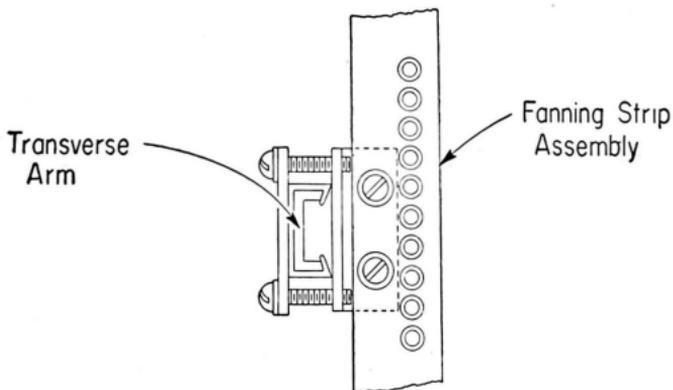
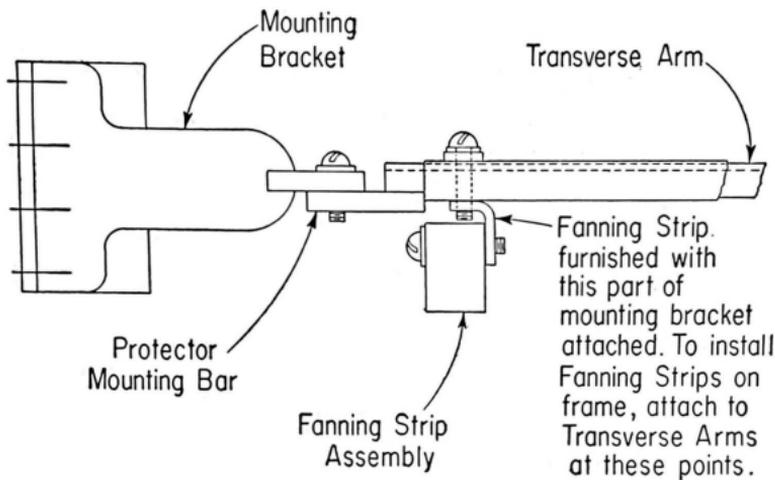
4.01 The terminating of conductors on the back of a protector should be completed prior to mounting the protector on the frame.

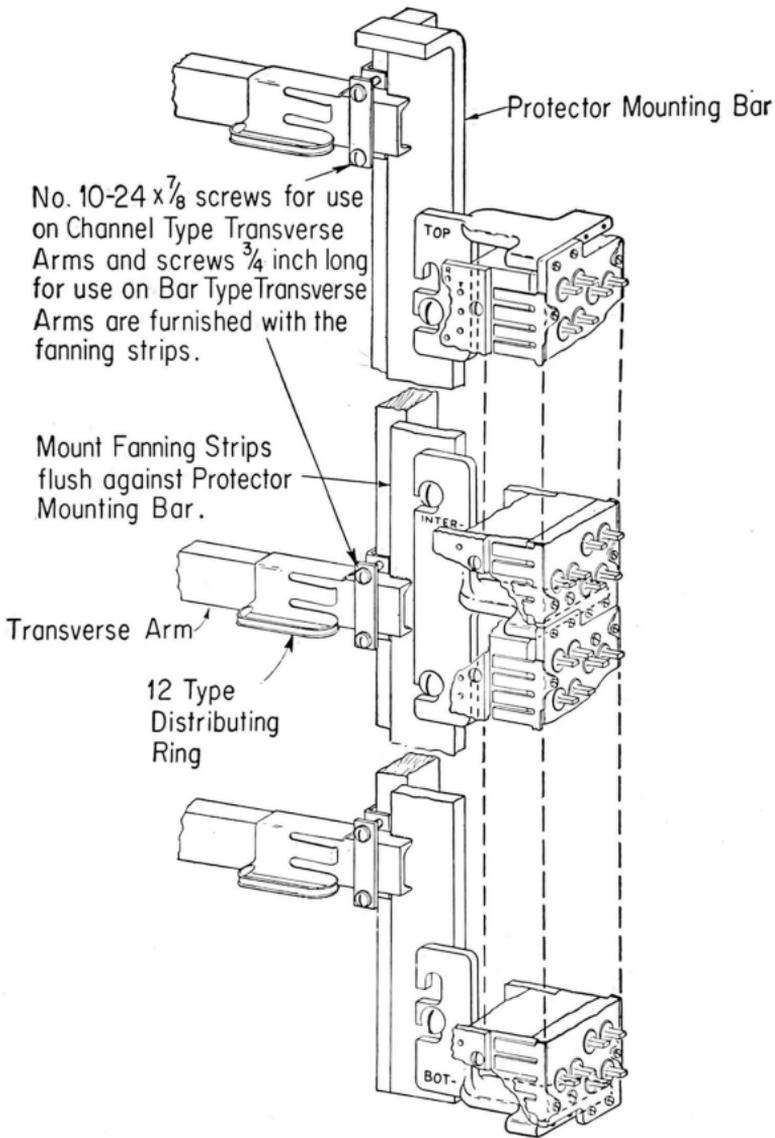
4.02 Start the No. 12 screws, for mounting the protectors, in the holes of the protector mounting bar at the desired locations. Turn the screws until about 6 threads or 1/4 inch of the screws engage. Place the mounting brackets on the screws. Attach the protectors to the mounting brackets and tighten the screws.

4.03 When a single cable is terminated locally, on two or more 50-pair protectors, it may be desirable to fasten the protectors to the mounting brackets first, and then to attach the mounting brackets and the protectors to the frame, as a unit.

5. INSTALLING FANNING STRIPS (Dwg. No. ED-95109-70)

5.01 Fanning strips are not required on the cable side of the main frame vertical; therefore, the fanning strips mount only on the cross-connection side as indicated in the following illustrations.





5.02 The fanning strips may be placed either before or after placing the protectors.

6. TESTING PROTECTOR BLOCKS

6.01 After mounting 121 protectors on the frame, test for grounded protector blocks in accordance with G50.222.1.