

845 B

## MAINTENANCE BRACKETS ED-63343-01 FOR SUPPORTING EQUIPMENT UNITS

### 1. GENERAL

1.01 This section covers the methods of using maintenance brackets per ED-63343-01, Groups 1 and 2, for obtaining access to the rear of equipment units on double-sided and back-to-back relay bays.

1.02 The Group 1 maintenance support bracket consists of two sets of rods which are screwed directly into the bay uprights through holes in the bottom edge of the panel. This permits sliding the panel away from the bay without danger of dropping the panel. A guide bracket is provided for use in keeping the panel to be removed in a vertical position until it has been slid out in front of the other equipment on the bay and tilted down. This also serves as a stop rest for keeping the panel in a horizontal position. Support chains are provided for holding panels from seven to ten mounting plates high. A ten-mounting plate panel is the largest for which the use of the support is recommended. The support given by the guide bracket without chains is satisfactory for panels smaller than seven mounting plates.

1.03 The Group 2 maintenance support bracket consists of a set of right and left rods and support brackets, and two binder clips together with a holder. The right and left rod assemblies are screwed into the bay uprights through holes in the panel and the support brackets are fastened under a mounting screw of the panel below or above. The panel being serviced is then pulled out to the limit of the rods and the top is tipped back until the panel rests in a horizontal position. The binder clips prevent the panel from returning to its vertical position while work is in progress. A set of support chains, such as are used with the Group 1 support bracket, shall be provided and used when servicing panels seven to ten mounting plates high.

### 2. TOOLS, MATERIALS AND APPARATUS

2.01 Soldering Copper.

2.02 5" Regular Screwdriver.

2.03 P-Long Nose Pliers.

2.04 Diagonal Pliers.

2.05 Friction Tape.

### 3. METHOD

#### Group 1 Maintenance Support Bracket

3.01 Remove cable duct covers from both sides of the bay.

3.02 Remove the top panel mounting screws on each side of the panel below the panel to be serviced and insert the hexagonal support rods.

3.03 Remove the bottom screws on each side of the panel to be serviced and insert the round support rods. Turn these rods down to meet the hexagonal support rods and fasten in place with the round head screws provided. See Fig. 1.

3.04 Remove the panel mounting screw approximately five inches below the hexagonal support rod on the right side of the bay and insert the extra hexagonal rod, except for the bottom panel in which case the support bracket will rest against the guard rail.

3.05 Remove the screws from the right side of the panel to be serviced and loosen the screws on the left side of the panel.

3.06 Attach the support bracket to the right side of the panel to be serviced and remove the screws from the left side of the panel.

3.07 Slide the panel out on the support rods and lower it forward into the maintenance position with the support bracket resting against the extra hexagonal rod or the guard rail.

3.08 If the panel is seven to ten mounting plates high the support chains shall be used to supplement the bracket. Snap the fasteners into the top holes on each side of the panel and attach the other end under a panel mounting screw on the bay uprights at a convenient length above the point being maintained. The effective length of the chain is adjustable by means of the hooks provided.

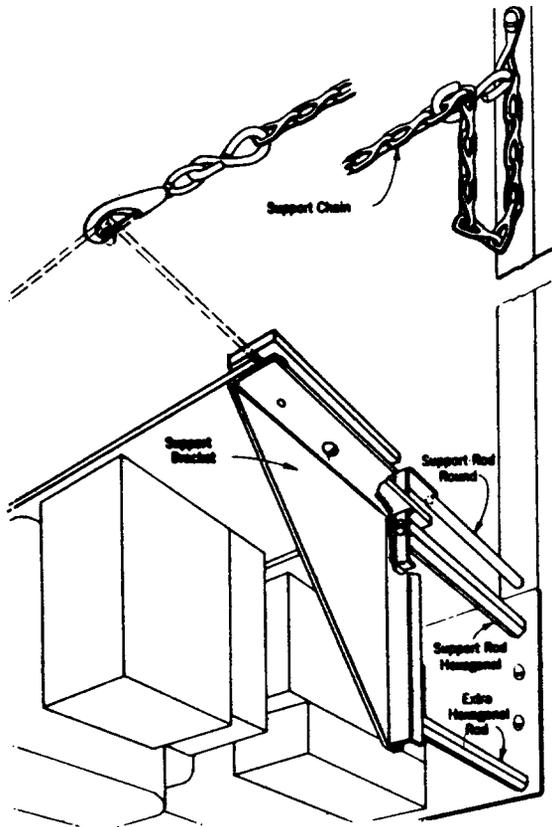


Fig. 1 - Method of Using Group 1 Maintenance Support Bracket

Group 2 Maintenance Support Bracket

- 3.09 Remove the panel cover from the unit to be serviced. On some panels it will be necessary to remove the panel cover supports before the brackets can be attached.
- 3.10 Loosen cable support wires and slide them back into the ducts.
- 3.11 Disconnect wires at terminals indicated and tape where necessary.
- 3.12 Loosen the wing nuts and extend the channel support brackets parallel to the support rods. Screw the rods of the left and right brackets into the holes five inches from the top on each side of the panel or, if the panel is less than three mounting plates high, in the hole nearest the bottom on each side of the panel. See that the cable loop is outside the rod. See Fig. 2.

- 3.13 The hinged feet of the support brackets shall be fastened under a mounting screw 12 to 15 inches below or above the hole into which the support rod has been threaded.

Note: The hinged feet of the channel support brackets may be fastened above or below the panel being serviced as may be most convenient.

- 3.14 Fasten the wing nuts firmly to hold the support rods in a horizontal position and remove the remaining screws securing the panel.

- 3.15 Rock the panel gently by means of the panel support brackets and pull it out evenly to the limit of the bend in the rods. Allow the top of the panel to tip back until it rests in a horizontal position.

- 3.16 Fasten the binder clips on each end of the panel to secure the panel to the support rod.

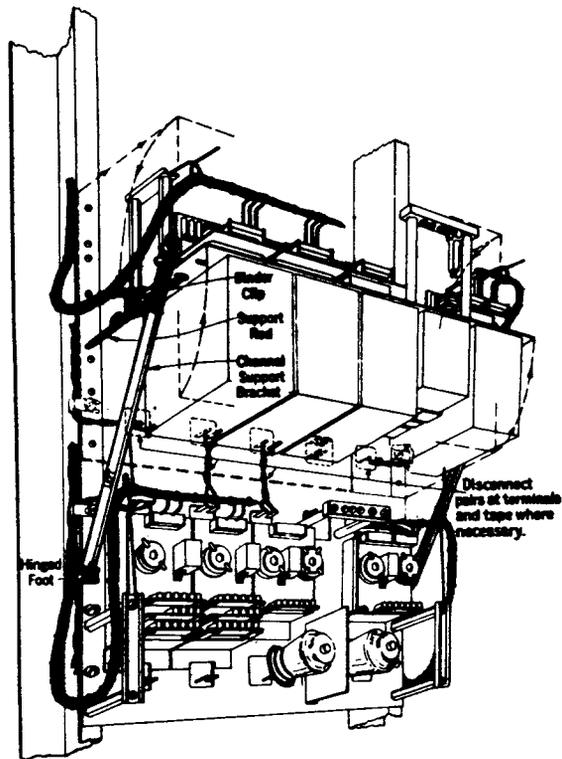


Fig. 2 - Method of Using Group 2 Maintenance Support Bracket