MOUNTING 1A LINE CONCENTRATOR UNITS PER J99255

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1 GENERAL

1.1 Scope

1.11 This section covers specific installing procedures for mounting 1A Line Concentrator units per J99255 in the Line Concentrator frame or on the wall.

1.12 Refer to Sections 50A and 50G for the location of other information to which reference may be necessary when performing operations covered by this section.

1.13 The concentrator units shall be mounted on the concentrator frame or on the wall as shown on the applicable job equipment drawing.

1.2 Precautions

1.21 General safety precautions against personal injury and equipment damage are outlined in Handbook 8 and Section 1A in this handbook. These precautions are to be observed at all times as they apply to the operations being performed. Specific precautions to be taken are covered in this section.

1.3 Arrangement of Tools

1.31 Prior to starting operations covered by this section, the tools and other items required should be arranged at the work locations so as to minimize fatigue and inconvenience when handling.

1.32 In addition to the tools generally available on a job, the tools listed in Paragraph 2.1 may be required.

1.4 Verification

1.41 Items for the verification of the equipment installed by the operations covered in this section are listed in Section 50V.

1.42 The items in Section 50V also may be used as a self-check guide when performing operations covered by this section.

1.5 Description

1.51 The Line Concentrator control unit consists of crossbar switches and relay units mounted on an angle iron framework, 7 ft. - 1 inch high, 3 ft. - 2-1/4 inches wide and weighing between 450 and 500 lbs.

1.52 Each control unit is equipped with two 3/8" eyebolts to facilitate hoisting and mounting. These eyebolts are part of the unit and should not be removed.

2. INSTALLING EQUIPMENT

2.1 Tools

R-No.	Description	Quantity	Contained in Kits or Sets
R-72068	Bolt, "U"	2	43,48,55,162
R-2092	Chisel, Ripping	1	32,32A,48,102
R-3032	Drill, Electric, 1/2"	1	-
R-2345	Drill, Twist, 3/8"	1	45,51
R-1471	Drill, Twist, No. 13	1	3,32,32A,102
R-2302	Drill, Twist, 1/2"	1	4,48
R-1155	Drill, Twist, .246",B	1	3,32,32A,102
R-9430	Hammer, Claw	1	32,32A,48,102
R-1844	Hoist, Chain, 1/4 ton	2	43,48,162
R-1503	Nailpuller	1	3,43,48,48,102
R-2443	Screwdriver, 3"	1	168,198
R-1526	Tap..316-24	1	32,32A,102
R-2599	Truck, Dolly	1	43,48
R-2510	Truck, Dolly (8x8 only)	1	R-3015 Set
R-2512	Wrench, Adjustable, 8"	1	3,4,32,32A,R-2792
R-1255	Wrench, O.E. 31/32 - 1-1/16"	1	3,4,48,48,R-2792
R-1952	Wrench, Tap	1	32,32A,102

3. UNPACKING

3.1 The concentrator unit is packed on a shipping skid and encased in a shipping crate in the same manner as a regular frame.

3.2 The unit may be unpacked by removing the nails which are used to fasten the box to the shipping skid and lifting the box off the skid and unit. If the box can not be conveniently lifted off the skid in this manner, also remove the nails from one side and slide the box off the skid from the opposite side.

3.21 Place the skid and unit on an R-2509 Dolly Truck (R-2510 in SxS offices). Cut and remove the metal strapping.

4. MOUNTING

4.1 Secure two 1/4 Ton Chain Hoists if available, or a 1/4 ton and a 1/2 ton hoist, to the auxiliary framing above the wiring side of the line concentrator frame.

4.2 Move the unit into the wiring aisle until the top of it is in line with the load hook of the first hoist

4.3 The unit is mounted with the flat side of the unit framework against the wide flange at the rear of the Line Concentrator frame. Eight 216-24 mounting screws are provided for fastening it to the framework. See Figure 1.

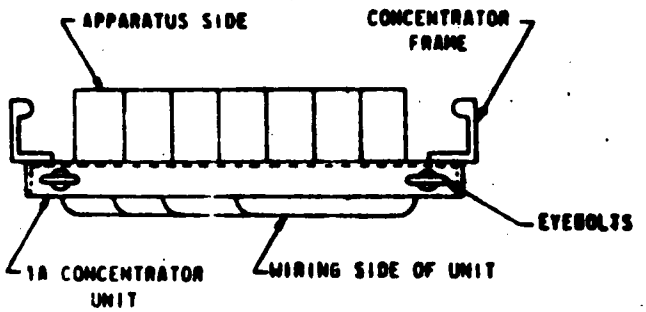

FIG. 1 METHOD OF MOUNTING (PAR. 4.3)

4.4 Attach the load hook of one hoist to the upper eyebolt and raise the unit high enough to attach the other load hook, continue raising and guiding the unit until it hangs in a vertical position with the mounting holes in the unit at approximately the same height as those in the framework.

4.41 Gradually push the unit into position on the frame and install the mounting screws while it is still attached to the hoists. Assembly will be facilitated if the bottom mounting screws are installed first.

4.42 Disengage the hoisting hooks but leave the eyebolts attached to the unit for telephone company's use.

NOTE: In some offices where 1A Line Concentrator units are to be installed, extremely crowded conditions exist, which make it impossible to follow the instructions as covered in the preceding paragraphs. Where these conditions are encountered, the methods outlined in Paragraphs 4.5 to 4.52, Note should be applied wherever possible.

4.5 If the unit can not be placed in position for hoisting while on the skid, it should be removed from the skid. This should be done in an area where a hoist can be placed above the unit and the load chain attached to an eyebolt. The unit should then be raised completely off the skid.

CAUTION: Do not raise only one end of the unit and attempt to lift the corner remaining on the skid by "manpower".

4.51 After removal of the skid, lower the unit onto an R-2509 or R-2510 Dolly Truck, carefully guiding it so that it can not slip or fall. While rolling the unit on the dolly truck to the location where it will be mounted, the unit should be held and guided by at least three men.

4.52 If conditions are such on a job, that none of the foregoing methods can be applied, have it placed by the truckers or warehouse men. NEVER "MANHANDLE" A UNIT INTO POSITION.

NOTE: The unit should not be assembled by placing the empty concentrator frame on its back, laying the unit on the frame, mounting it in position and raising the frame and unit together.

5. WALL MOUNTED

5.1 Information for drilling walls and the location of holes needed for attaching the unit to the hinge plates is covered on ED-94811-10, which is furnished to the job.

5.11 Although it is felt that the information on the foregoing drawing is complete, the following sequence will be found helpful when mounting concentrator units on walls.

5.2 Locate and drill the holes in the wall as indicated on the foregoing drawing. Install expansion shields, hinge plates, etc. as required.

5.3 With the unit unpacked and resting on the skid as previously described, and prior to removing the steel straps, drill all the holes in the unit framework as indicated on ED-94811-10. Mount the P-44F187 Caster Assembly to the P-44F184 Cradle Assembly and attach it to the bottom of the unit.

5.4 Hoist the unit to an upright position in the standard manner and push it on the caster assembly to its final location against the wall.

CAUTION: Carefully guide and support the unit while conveying it on the caster assembly.

5.5 The caster assembly becomes part of the unit to permit swinging it away from the wall to gain access to its wiring side.

5.6 Install the mounting screws to attach the unit permanently to the hinge plates.

→ Arrowed lines indicate new or changed information.

[Vertical line at side of paragraphs indicates requirements.

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Reason for Reissue:
(1) To clarify method of unpacking the unit. (Paragraph 3.2)
(2) To add information on wall mounted concentrator units. (Paragraphs 5.1 to 5.6).
(3) To add Paragraphs 4.5,4.51,4.52 covering the erecting of concentrator units in crowded offices.

Replaces Section 80J of 8-17-61.