

P1 CARRIER TELEPHONE SYSTEM  
POLE MOUNTED APPARATUS CASES  
AND BATTERY CABINETS  
INSTALLATION

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1. GENERAL

1. 01 This section covers the description and installation of pole mounted apparatus cases and battery cabinets used with the P1 carrier telephone system.

1. 02 Construction prints will specify the equipment and indicate if provision should be made for future terminal additions.

1. 03 Mount apparatus cases and battery cabinets at a level at which they can easily be worked on while standing on the ground. At locations where there is a possibility of flood, deep snow, fire hazards, damage by livestock, etc. , mount them higher. Build a platform of local design or as shown in the section "O Carrier Telephone Systems. "

1. 04 All equipment for a single P1 carrier channel terminal installation can be pole mounted. The equipment may be mounted on crossarms if desired.

1. 05 Each carrier terminal requires its own power supply. Repeaters may have their own power supply or be powered from the office by cable pairs.

- 1.06 Material and wiring must conform to all laws or orders of state and local bodies having jurisdiction.

## 2. PRECAUTIONS

- 2.01 Have a clear, flat area around the pole for good footing for the workman. Eliminate all brush and grass around the poles that may become a fire hazard. When practical, sterilize the soil around the pole to stop regrowth. See the section on Grass and Weed Control in the G10 series.

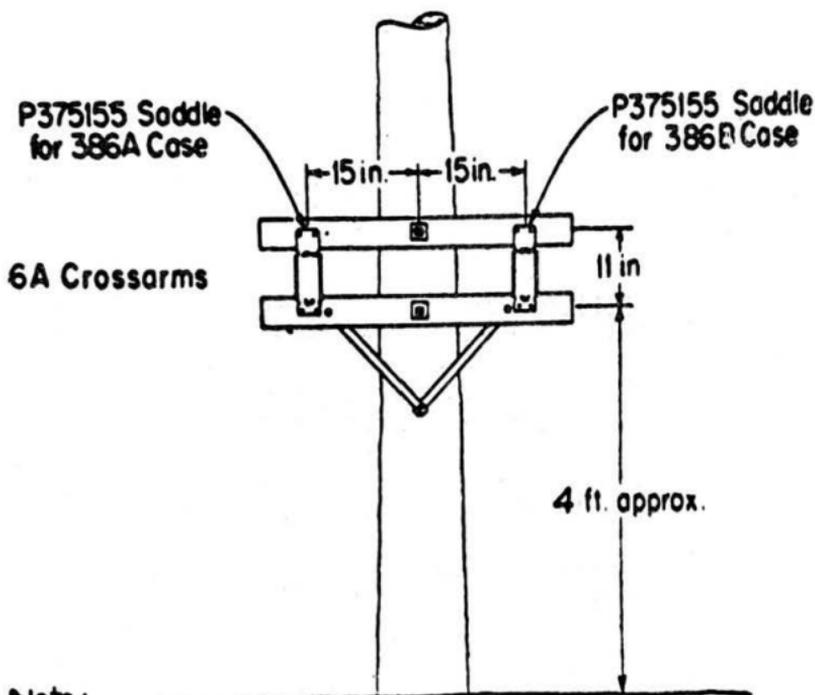
## 3. DESCRIPTION OF APPARATUS CASES AND BATTERY CABINET

- 3.01 The 386A and 386B apparatus cases and the KS-16200 battery cabinet are designed for pole mounting at terminal and repeater locations.
- 3.02 One P-375155 saddle is furnished with each apparatus case. Upper and lower mounting brackets are furnished with each battery cabinet.
- 3.03 The two halves of the 386A and 386B apparatus cases and the terminal block cover are fastened with 5/32-inch Allen screws. A 7/32-inch Allen screw fastens the channel support, which forms part of the apparatus case, to the saddle. An Allen No. 609 T - Handle Key Set with a 5/32-inch and a 7/32-inch blade, obtained locally, should be used.
- 3.04 The exterior surface of all cases and cabinets is finished with a white enamel coating to reflect heat from the sun.
- 3.05 The 386A apparatus case is an hermetically sealed aluminum die casting and houses the 803A connector.
- 3.06 The 386B apparatus case contains the power supply equipment for the terminal and is required when commercial power is used.
- 3.07 The KS-16200 battery cabinet is a sheet metal cabinet arranged to house the primary battery plant of eight KS-15760, List 1, air cell batteries. This power supply is only used when commercial power is not available.

#### 4. SUPPORTING STRUCTURES

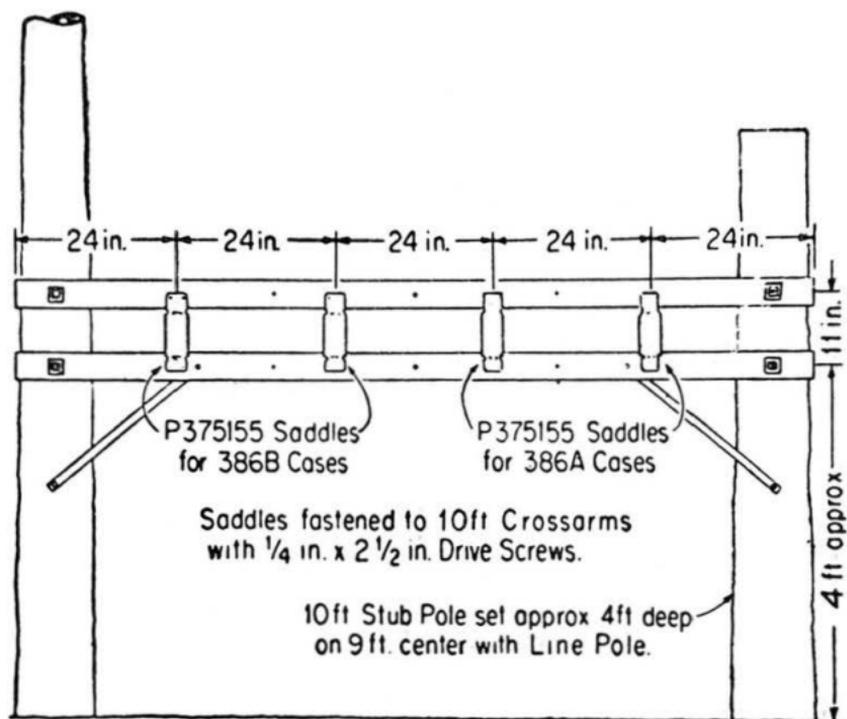
4.01 The following illustrations show recommended structures for supporting one and two repeater or channel terminal installations. Where more than two repeaters or channel terminals are to be placed at one location the detail plans will give the required information.

(a) Single channel terminal or repeater using commercial power.



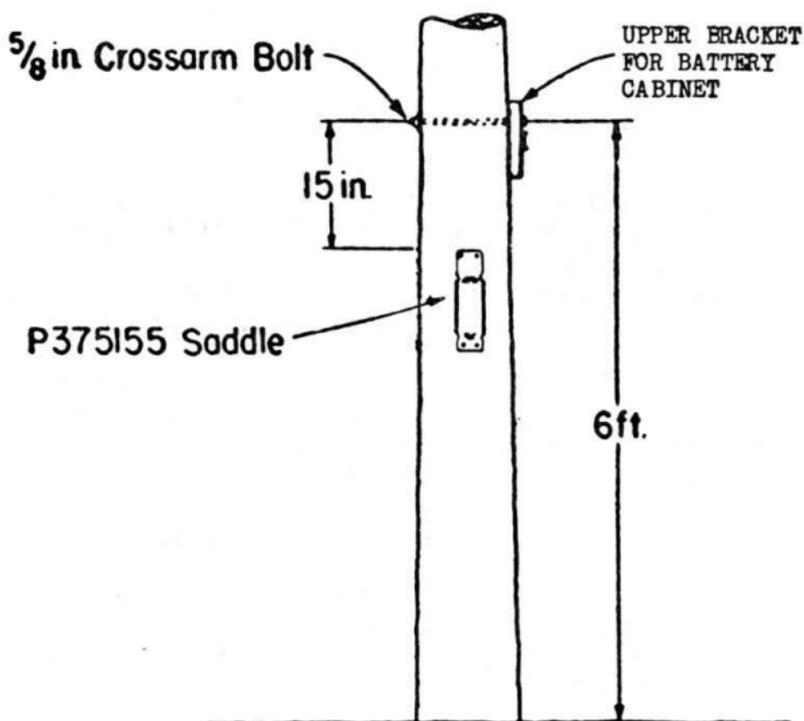
Note:  
Saddles fastened to Crossarms  
with  $\frac{1}{4}$  in. x  $2\frac{1}{2}$  in Drive Screws.

- (b) Two channel terminals or two repeaters using commercial power.



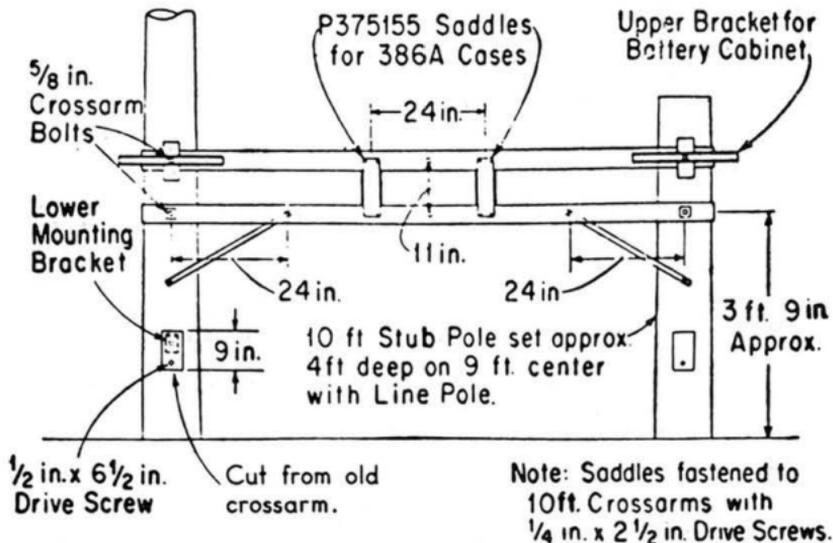
Note: Attach 30 in. Crossarm Brace approx. 24 in. from Crossarm Bolt.

- (c) Single channel terminal or repeater using primary battery supply.



Note:  
Saddle fastened to Pole  
with 1/4 in x 2 1/2 in. Drive Screws.

- (d) Two channel terminals or two repeaters using primary battery supply.

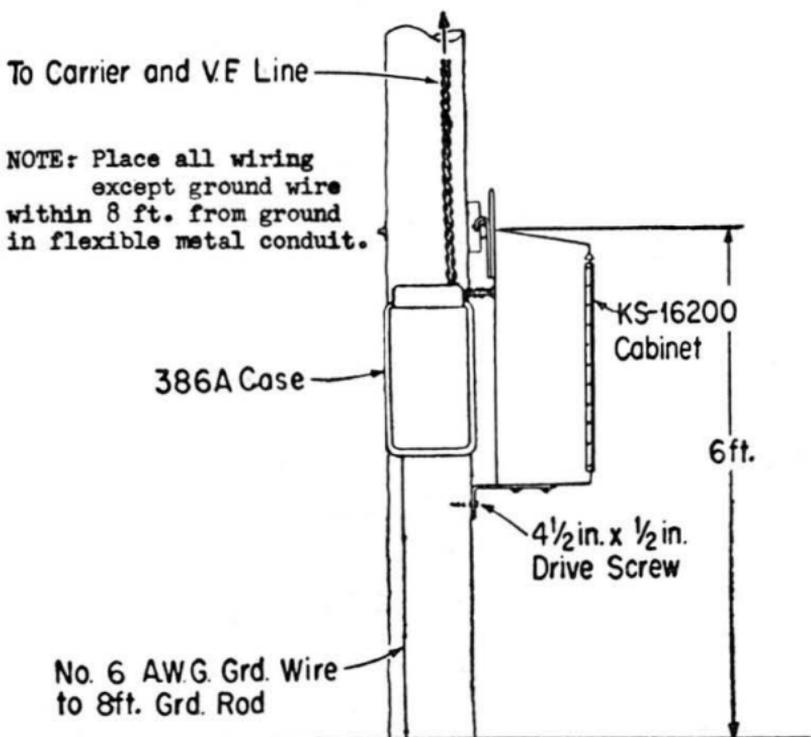


## 5. ARRANGEMENT OF APPARATUS CASES

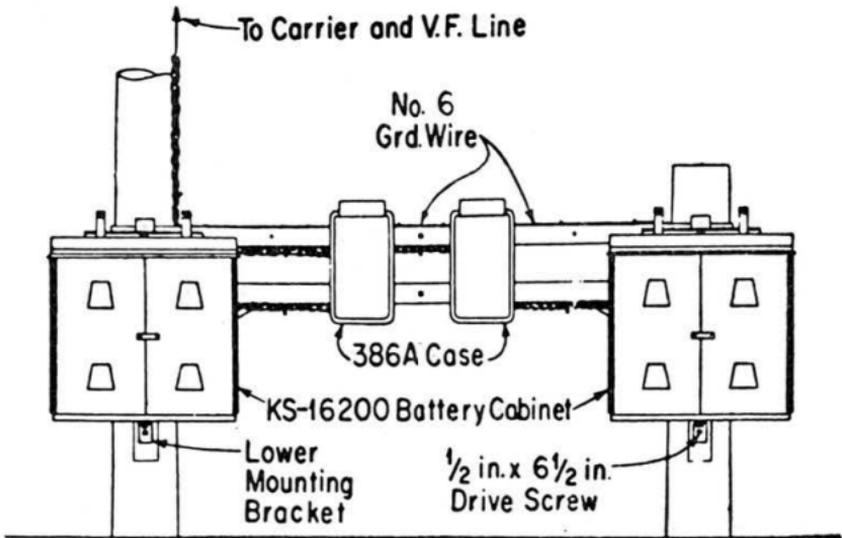
5.01 The following illustrations show arrangements for one and two channel terminal or repeater installations using primary battery supply. Section G33.107.2 has illustrations using commercial AC power.

- (a) Single channel or repeater using primary battery supply.

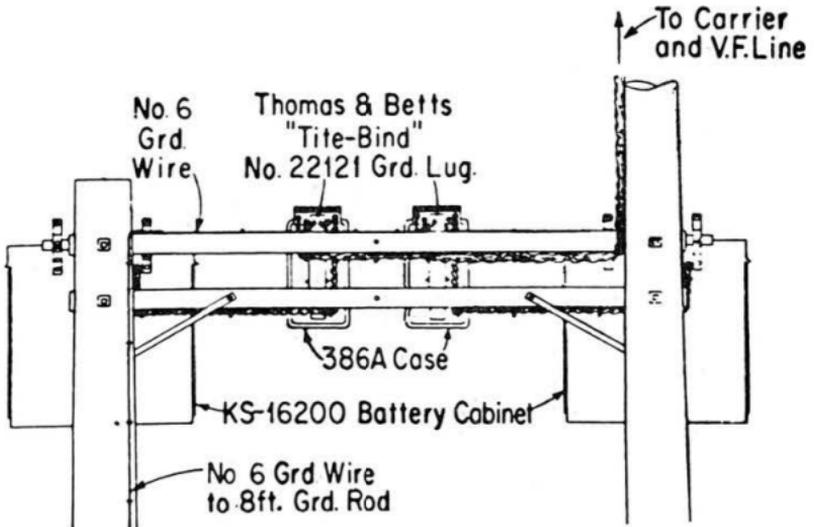
If served from aerial cable, bond apparatus case to cable strand with No. 6 AWG ground wire. Bond ground wire to cable strand with cable lashing clamp. Bond ground wire to apparatus case using upper Thomas and Betts "Tite-Bind" No. 22121 lug that is provided on case assembly.



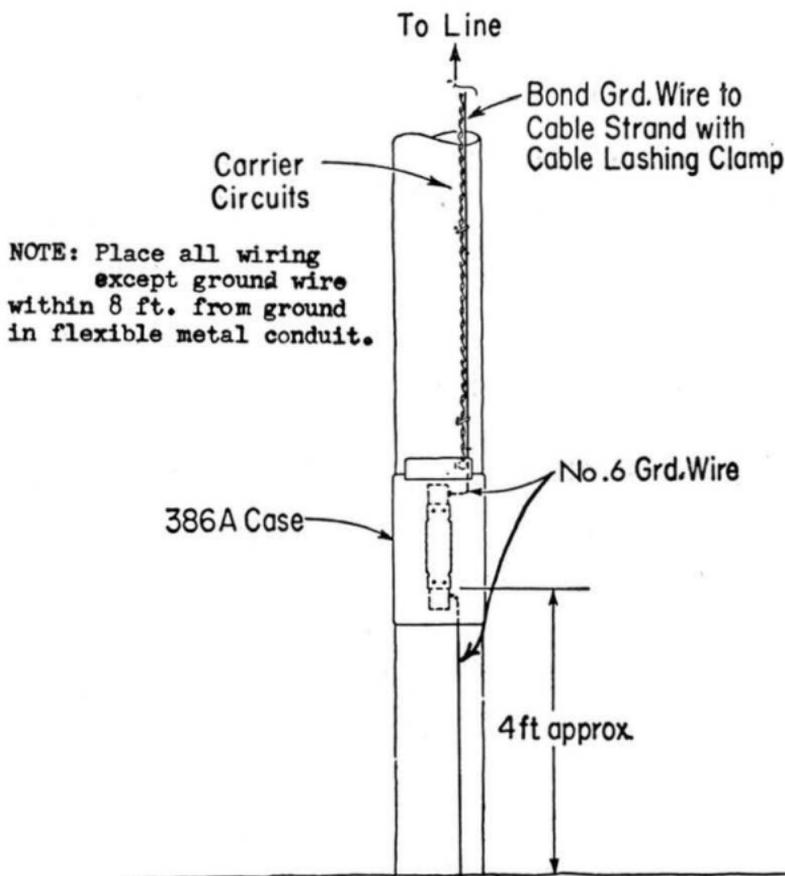
- (b) Two channel terminals or two repeaters using primary battery supply. If served from aerial cable, bond apparatus case to cable strand with No. 6 AWG ground wire as described in (a) above.



Note: Place all wiring, except ground wire, within 8 ft. from ground in flexible metal conduit.



(c) Single repeater using power from central office over cable.  
 Provide No. 6 AWG ground wire from apparatus case to an eight foot ground rod at base of pole. Bond ground wire to apparatus case using lower Thomas and Betts Tite-Bind No. 22121 lug that is provided on the case assembly.



- (d) Position the battery cabinet and secure it to the upper bracket. Bolt the lower mounting bracket to the underside of the cabinet, using the slotted hole in the bracket. Look at the front of the cabinet - move it to hang vertically - and fasten the lower bracket to the pole with a drive screw. Look at the side of the cabinet - move it to hang vertically - and tighten the bolt in the slot of the lower bracket.
- (e) Place all wiring (except ground wire) within 8 feet from ground in flexible metal conduit. Cover ground wire with ground wire molding.

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5.02 For channel or repeater installations covered in paragraphs 5.01 (a), (b), and (c) that may be mounted on a joint pole with a transformer ground at the base of the pole, place telephone ground rod 6 feet from transformer ground and do not bond together.