

## **LOADING COILS AND CASES**

### **SUPPORTING AERIAL CASES**

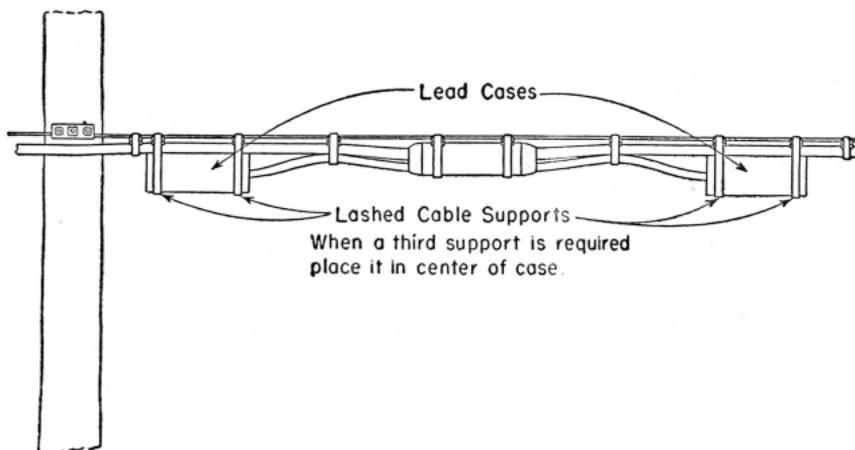
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#### **1. GENERAL**

1.01 This section covers the aerial installation of the various types of loading coil cases, apparatus and filter cases.

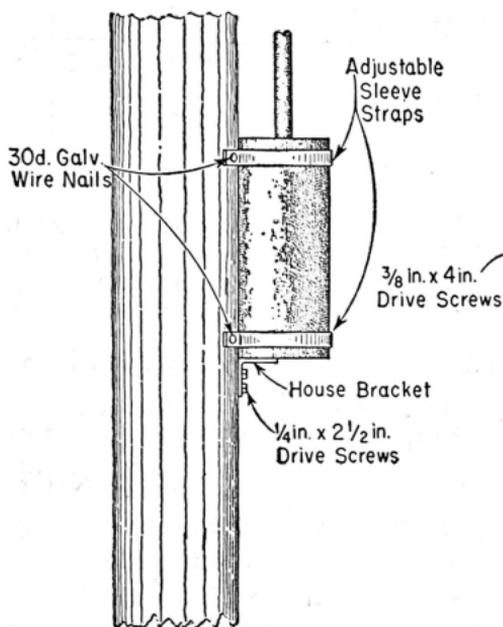
#### **2. SUPPORTING LEAD SLEEVE CASES ON STRAND**

2.01 Lead sleeve cases shall be supported on suspension strand by means of lashed cable supports as covered in the sections on the arrangement of supports in the G52 Series.

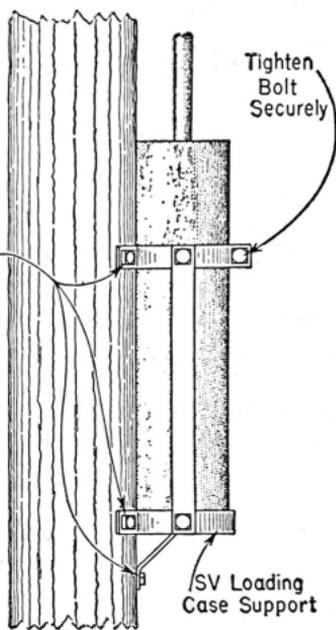


2.02 A lead sleeve case can be mounted on a pole as shown in the following illustration. If necessary a second case may be placed below the first case but sufficient clearance must be allowed to permit the stub to be formed in a smooth curve.

METHOD OF MOUNTING CASES WEIGHING 40 POUNDS OR LESS

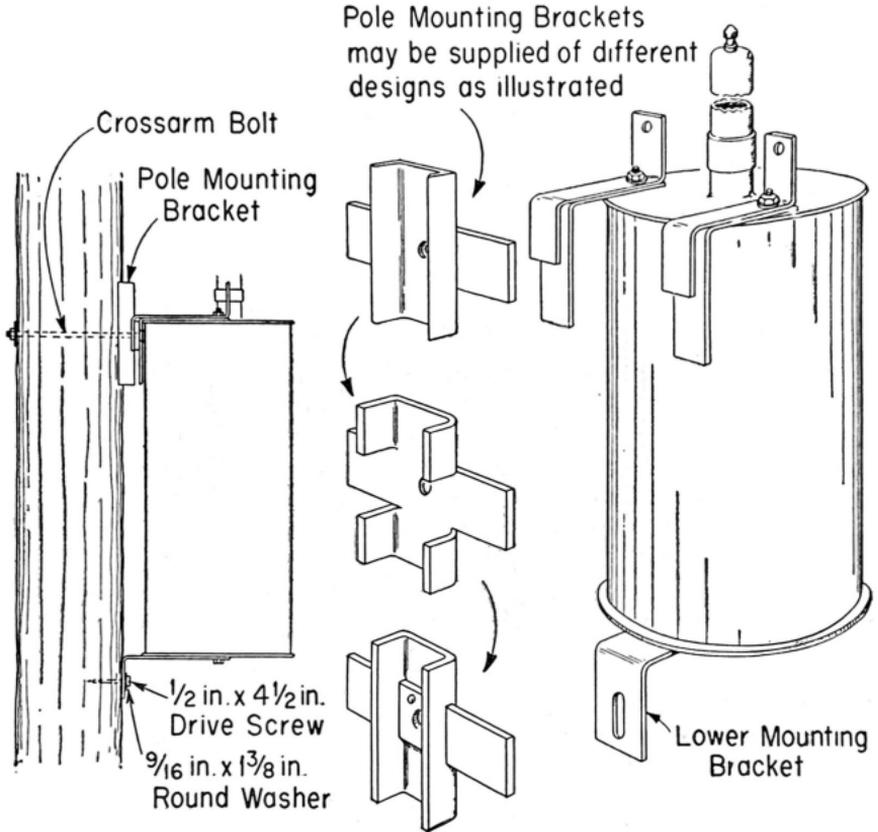


METHOD OF MOUNTING CASES WEIGHING MORE THAN 40 POUNDS



### 3. SUPPORTING CASES WITH POLE MOUNTING BRACKETS

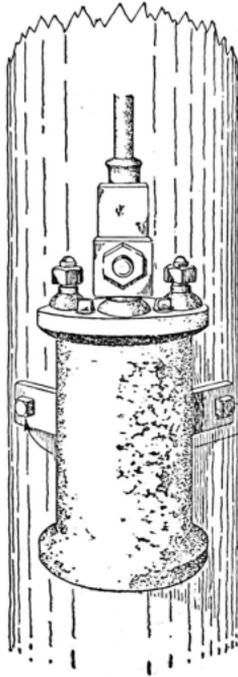
3.01 Welded steel cases equipped with pole mounting brackets shall be attached as shown in the following illustration.



3.02 Lower mounting bracket is adjustable to permit case to be mounted vertically.

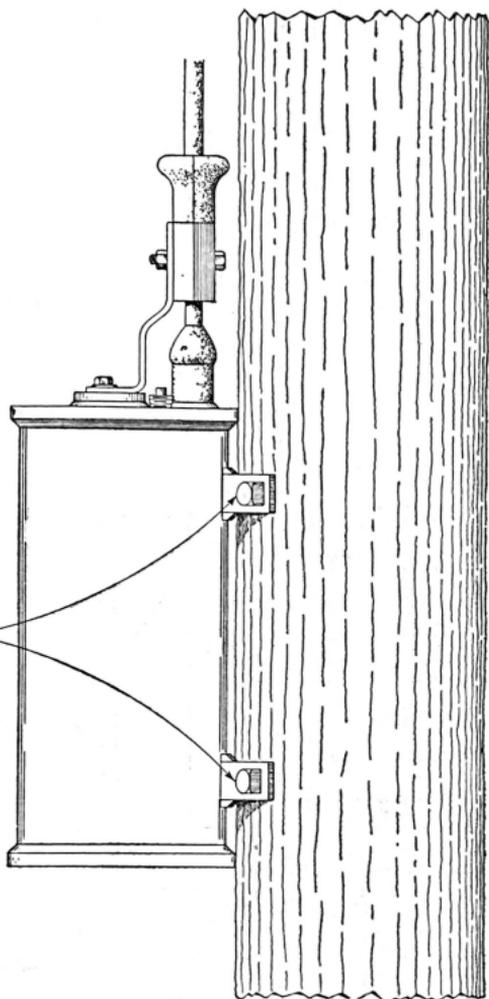
#### 4. ATTACHING CASES DIRECTLY TO POLES

4.01 Attach welded steel loading coil cases with supporting brackets integral with the case as shown in the following illustrations.



$\frac{3}{8}$  in. X 4 in.  
Drive Screws  
for the 91 series  
and  $\frac{1}{2}$  in. X 4  $\frac{1}{2}$  in.  
Drive Screws  
for all other cases

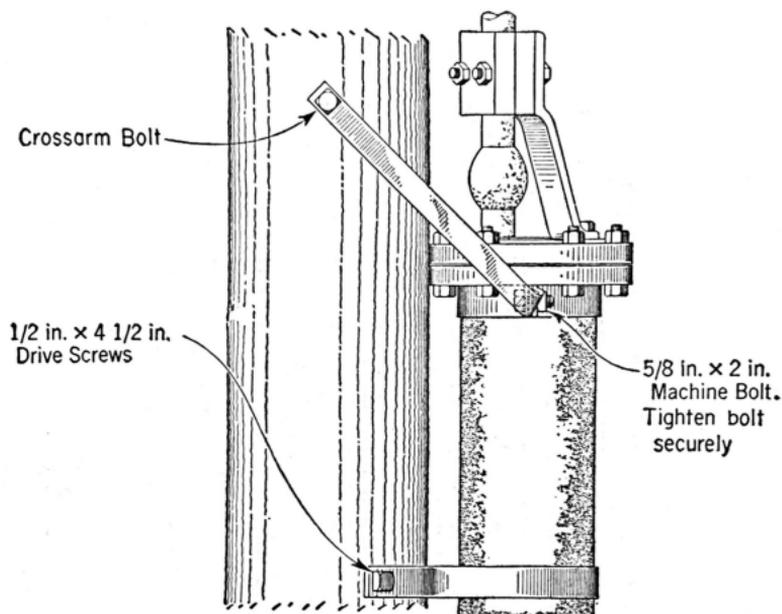
$\frac{1}{2}$  in.  $\times$   $4\frac{1}{2}$  in.  
Drive Screws,



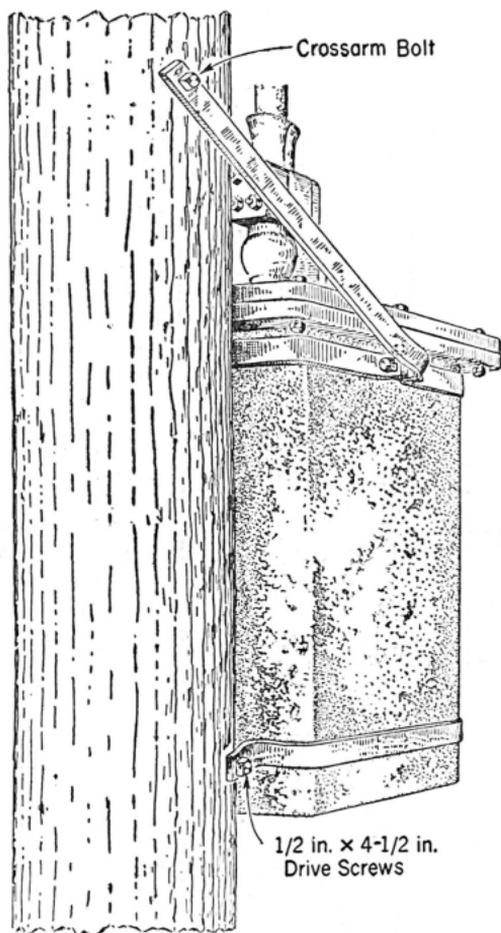
## 5. SUPPORTING CASES WITH "S" TYPE SUPPORTS

5.01 Support single spindle cast iron cases as illustrated using "S" type supports listed in the section on Cast Iron Case Data.

### SB,SC,SD AND SE LOADING COIL CASE SUPPORTS



## SF LOADING COIL CASE SUPPORT

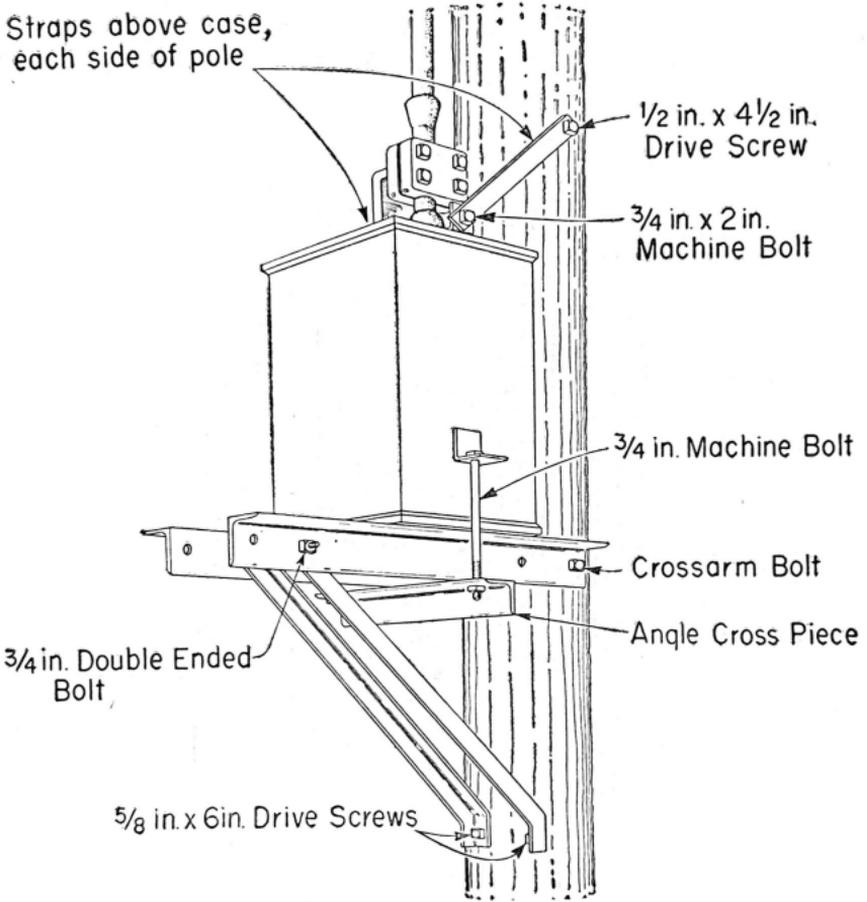


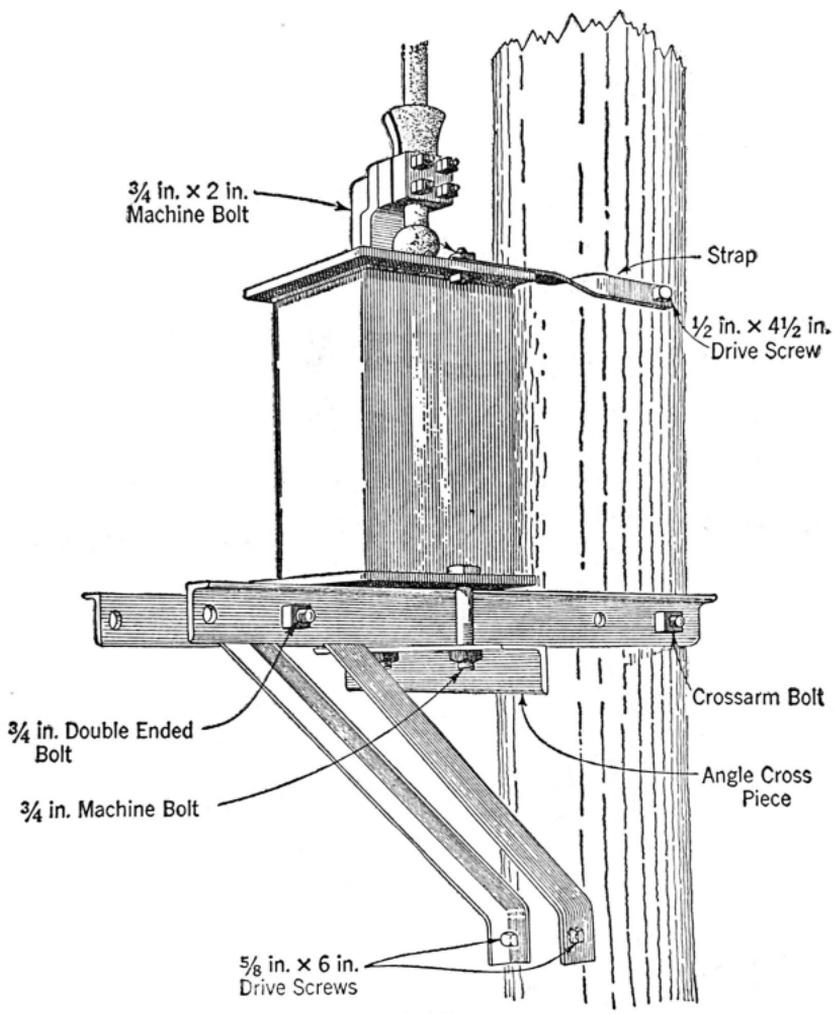
5.02 "S" type supports include all hardware except the drive screws or crossarm bolts for fastening the support to the pole. When ordering it is not necessary to specify the type of case.

## 6. SUPPORTING CASES WITH "M" TYPE SUPPORTS

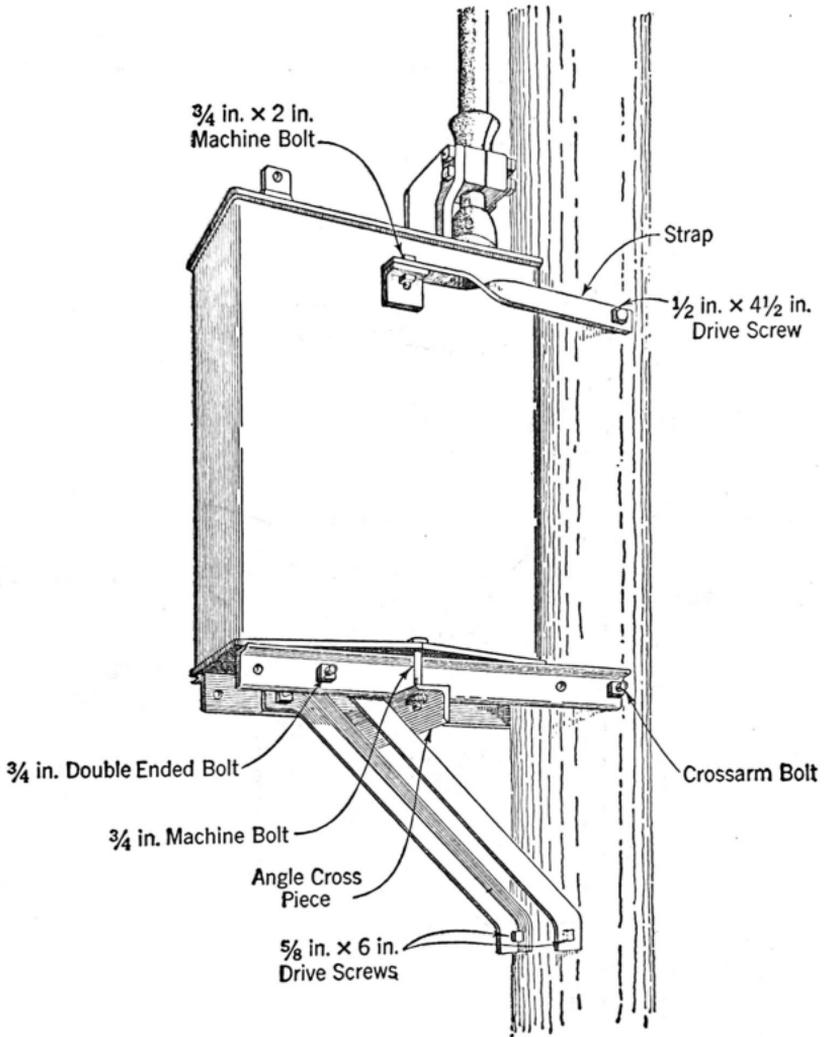
6.01 Multi-spindle welded steel loading coil cases shall be supported by means of "M" type supports as shown in the following illustrations.

(a) Side straps attached to top of case.

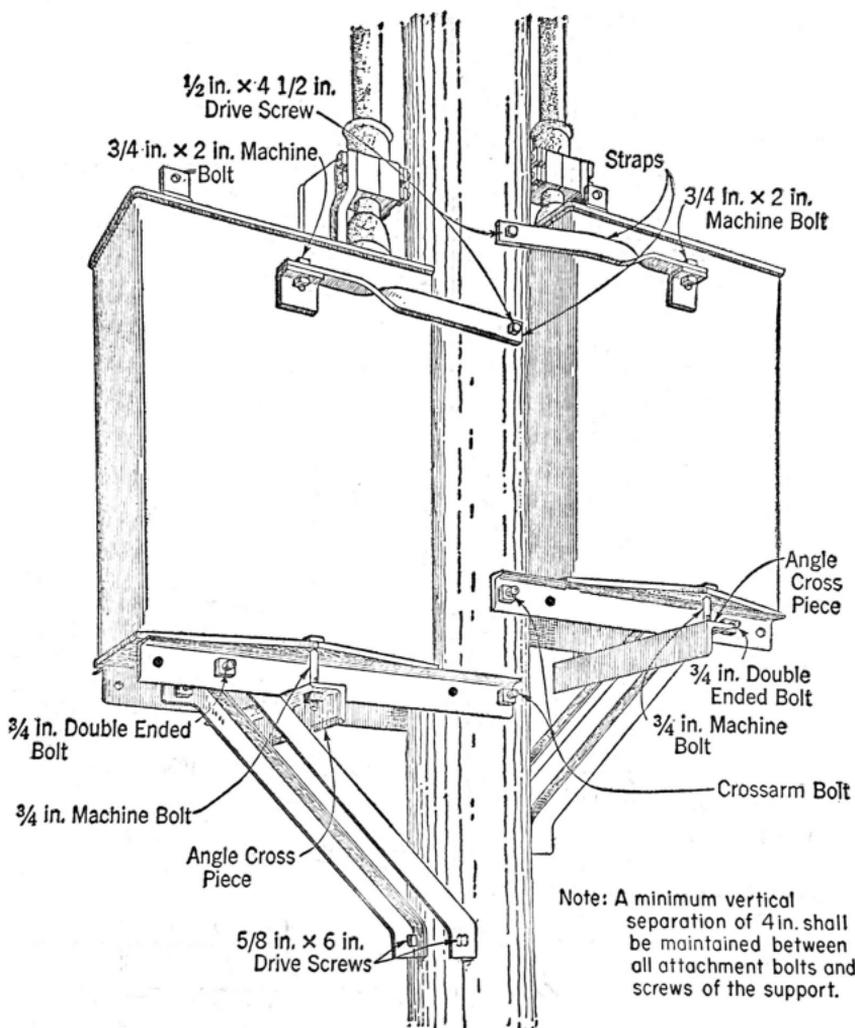




(b) Side straps attached to side of case.

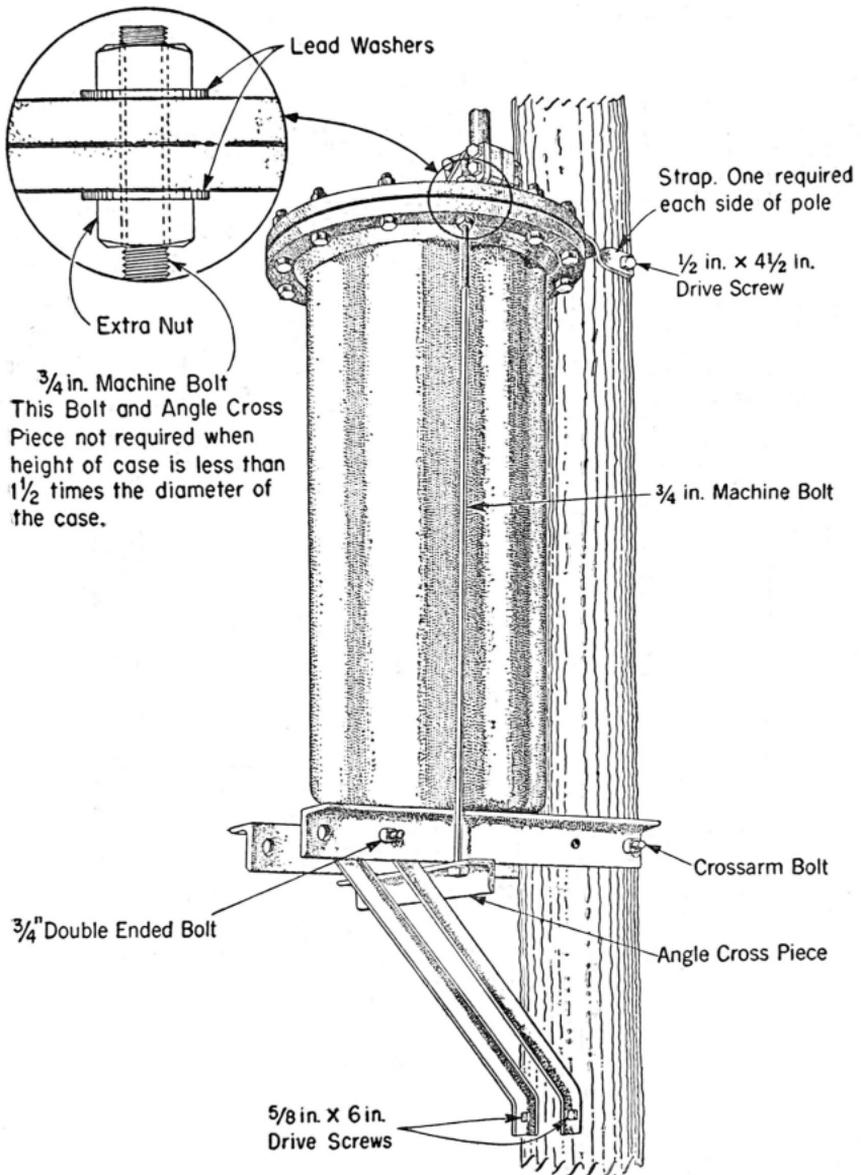


(c) Where cases are to be placed on opposite side of pole, attach supports as shown in the following illustration.



6.02 Multi-spindle cast iron loading coil cases are supported by means of "M" type supports as shown in the following illustration. Avoid removal of cover bolts because of the possibility of damaging the seal between the cover and body of the case. When it is necessary to remove a cover bolt in order to accommodate a mounting bolt, place the bolt so that

the threaded section will be on top. Place a nut below and above the flange of the case and lead washers between the nuts and the flange. Tighten the top nut until the loading coil case is held firmly against the support. The nut under the flange should then be tightened in order to seal the hole.



6.03 "M" type supports include all hardware, except drive screws and crossarm bolts required for attaching the support to the pole. When ordering "M" type supports specify the type of case to be supported.

## **7. SUPPORTING CASES WITH "H" TYPE SUPPORTS**

7.01 There are two sizes of "H" type Loading Coil Case Supports, the H-4 and the H-6.

7.02 The H-4 support accommodates four cases. The poles for this support should be placed 11 feet 4 inches apart, measured from center to center of the poles at the level at which the support will be attached.

7.03 The H-6 support accommodates 6 cases. The poles for this support shall be placed 16 feet apart, center to center.

7.04 The top flange of the I-beams of H-type supports shall be located approximately 9 feet below the suspension strand but not less than 10 feet above ground.

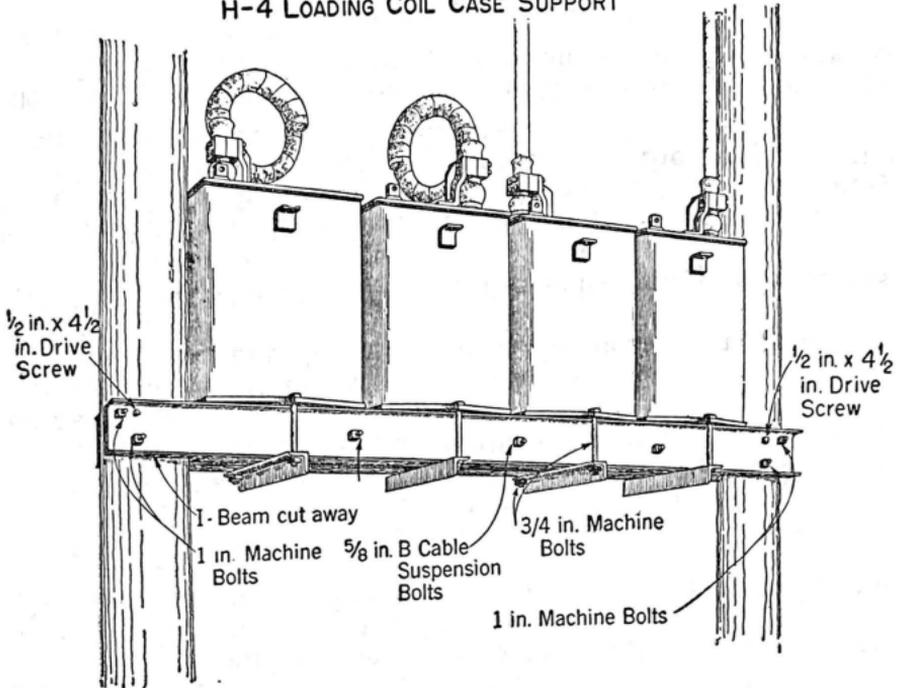
7.05 The following method is suggested for placing the I-beams.

- (1) Provide flat bearing surfaces for the beams by shaving any surface irregularities on the poles.
- (2) Place one I-beam on the ground on each side of the two poles and connect the beams together with 5/8-inch B cable suspension bolts.
- (3) Raise the assembled beams to the proper height on the poles.
- (4) Level the beams along the line and across from one beam to the other by means of a spirit level.
- (5) Secure the beams to the poles with a 1/2 inch x 4-1/2 inch drive screw placed in the small hole at each end of each beam.
- (6) Adjust the B cable suspension bolts so that the nuts are tight, but do not distort the beams in adjusting the bolts.
- (7) Bore 1-1/16-inch holes for the bolts, using the beams as a templet.

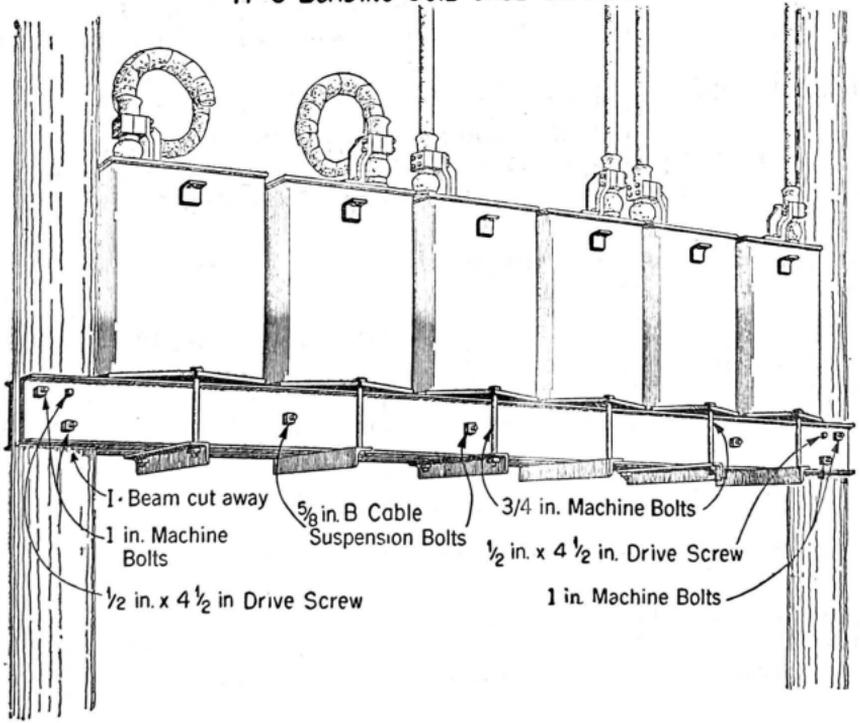
It is essential that these holes be bored accurately in order to have the holes in the beams in alignment. The holes may be bored from both sides of the poles. Secure the beams to the pole with the 1-inch bolts furnished.

7.06 A typical installation of an H-4 and an H-6 type Loading Coil Case Support is shown in the following illustrations.

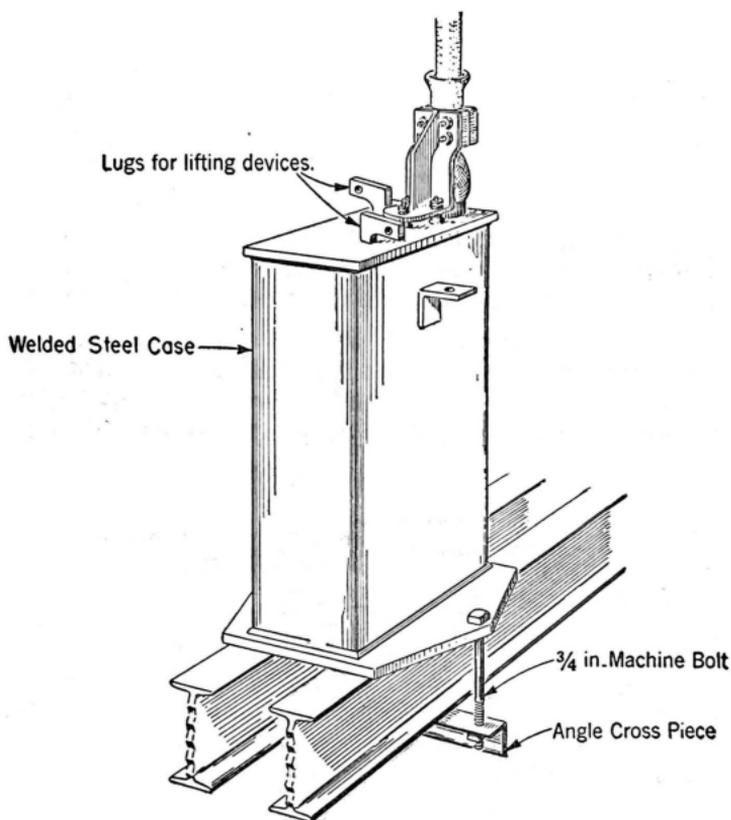
### H-4 LOADING COIL CASE SUPPORT

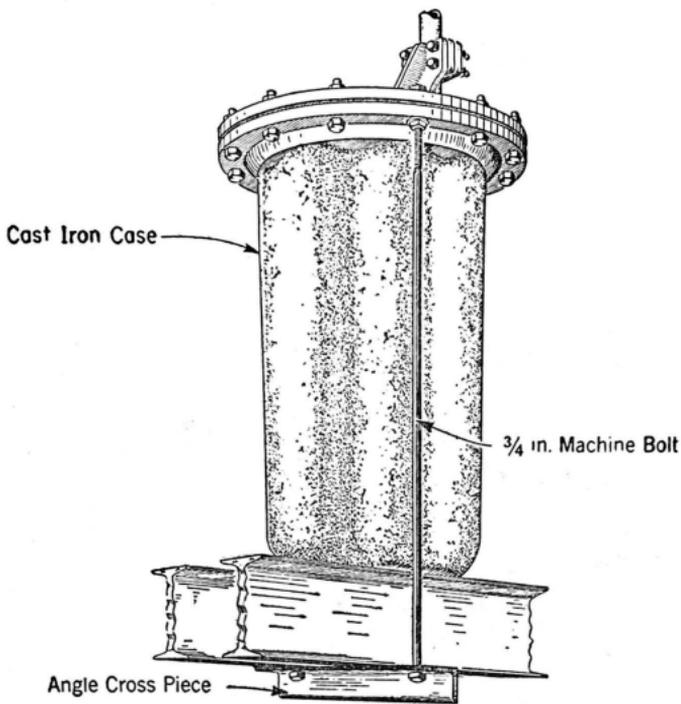


### H-6 LOADING COIL CASE SUPPORT



7.07 Secure each loading coil case on H-type supports by means of the 3/4-inch machine bolts and angle cross piece as shown in the following illustrations.





7.08 H-type supports include all hardware except the 5/8-inch B cable suspension bolts and drive screws which are required for erecting the H support. When ordering these supports specify the type or types of cases to be supported.

7.09 Where an H-type support is in place and it is desired to order the hardware for placing an additional case, order the support less I-beams and one-inch machine bolts.