

DROP & BLOCK WIRING
TREE ATTACHMENTS – INSTALLATION

1. **GENERAL**

- 1.01 This practice provides information on the installation of tree attachments used on drop wire runs.
- 1.02 Since tree attachments can be a source of trouble, they are to be used only where no other means of obtaining the proper clearance is available. Tree attachments shall not be made unless permission to place poles cannot be obtained or where poles would not provide the proper clearance.
- 1.03 With permission of the owner tree attachments may be used under the following conditions :
- a. Tree attachments may be made to shorten the span from highway to building, provided the installation can be made so that wires will have the proper clearances.
 - b. Where it is necessary to raise the drop wire to clear a tree limb or to obtain the required clearance from foreign circuits.
 - c. Do not attach drop wires to tree limbs or trunks which are less than 3 inches in diameter because of the greater movement of smaller limbs.
 - d. When tree attachments are used, allow at least one foot more sag in each span than specified in the sag table to compensate for the swaying of the tree.
- 1.04 A ladder shall be used to climb trees whenever it is found necessary to make a tree attachment. *Tree* climbers may be used when use of a ladder is not practical. Never use pole climbers to climb trees. The gaffs on climbers used for pole climbing are generally not long enough to penetrate the bark and thus will not enter solid wood far enough to obtain a firm hold.

2. **INSTALLATION**

- 2.01 To limbs or trunks 6 inches or more in diameter:
- a. Drop wire attachments to limbs or trunks 6 inches or more in diameter shall be made with drive hooks and drop wire clamps. Do not attach more than three drop wires (6 clamps) to one drive hook. See Figure 1.

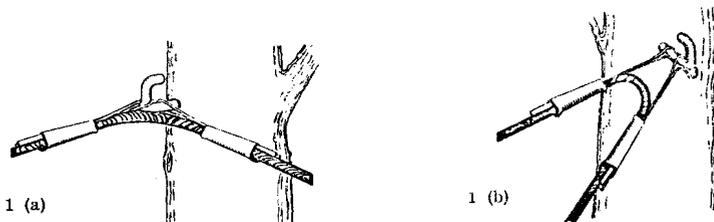


Figure 1. Tree Attachment To 6-Inch Diameter Trunk

2.02 To limbs or trunks from 3 to 6 inches in diameter:

- a. Use C bridle rings and drop wire clamps when attaching drop wires to limbs or trunks from 3 to 6 inches in diameter. Not more than one drop wire clamp may be attached to one bridle ring. See Figure 2.
- b. Do not use bridle rings for attaching drop wires which cross streets or highways when there is a pull away from the limb. On drop wires not requiring double deadends, the drop wire may be attached to bridle rings with a straight drop wire clip, as illustrated in Figure 3.

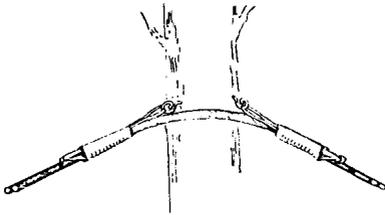


Figure 2. Tree Attachment To 3- To 6-Inch Diameter Trunk

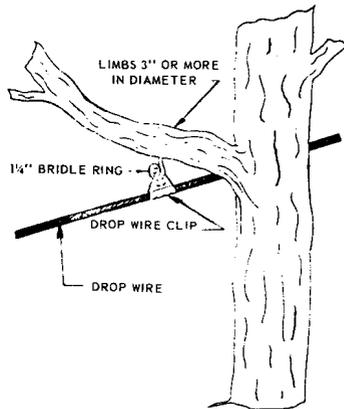


Figure 3. Drop Wire Clip Tree Attachment