83A PROTECTOR MOUNTING
GENERAL

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1. GENERAL

1.01   This section covers a description of the 83A Protector Mounting and specifies the plant that requires this type of protection.

1.02   This section and Section G38.110.2 constitute a complete revision of the 83A Protector Mounting Practices. Section G31.140, Addendum G31.140, Section G32.130 and Addendum G32.130 are hereby canceled.
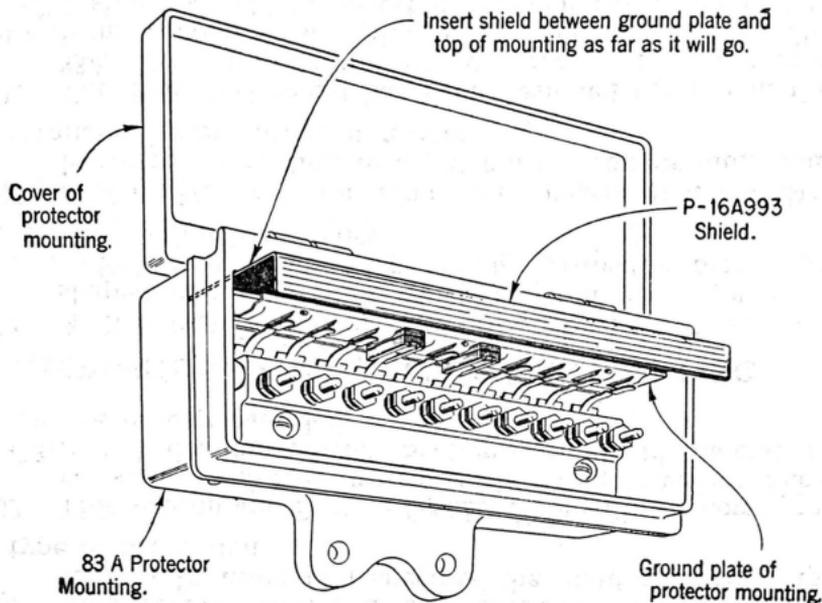
2. DESCRIPTION OF 83A PROTECTOR MOUNTING

2.01   A No. 84A Protector Mounting consists of an "L" shaped metal base on which is mounted a porcelain terminal block and springs for holding protector blocks. It provides protection for 5 pairs.

2.02   A No. 83A Protector Mounting consists of a No. 84A Protector Mounting in a galvanized iron or aluminum box arranged for mounting on a pole.

2.03   The P-16A993 shield has been designed for use in the 83A Protector Mounting to prevent the protector blocks from becoming wet during driving rainstorms. The P-16A993 shield should be inserted between the ground plate and the top of the mounting as shown in the following illustration:

INSTALLING P-16A993 SHIELD IN 83A
PROTECTOR MOUNTING

Insert shield between ground plate and
top of mounting as far as it will go.

Cover of
protector
mounting.

P-16A993
Shield.

83 A Protector
Mounting.

Ground plate of
protector mounting.

2.04 If the shield does not slide into place easily, loosen (do
not remove) the screw at each end of the ground
plate, lower this part as much as possible, and retighten the
screws.

2.05 The shield can be readily removed from the mounting
when it is necessary to place or remove the protector
blocks.

3. PLANT REQUIRING PROTECTION

3.01 Protector mountings are required at the junction
between open wire or drop wire and cable plant under
the following conditions:

(a) On exchange cables, connect to an 83A Protector
Mounting **all wires** entering a cable terminal if one or
more lines are over 1/2 mile long, unless otherwise
instructed.

(b) On toll cables, or combination toll and exchange cables, connect to an 83A Protector Mounting **all wires** entering a cable terminal, regardless of length, unless otherwise instructed.

Note: Where a protected type cable terminal is used, no protector mounting is required.

3.02 When a new open wire circuit is dead-ended at a terminal pole, and it is not immediately connected for service, the non-working open wire should be grounded as outlined in the section entitled, "Grounding Non-working Wire".

3.03 The Plant Engineer will specify on the construction drawing if additional precautionary measures in the form of 83A Protector Mountings along the open wire route are desired. 83A Protector Mountings along the open wire route shall be equipped with 31A (10 mil) protector blocks. These protector mountings are placed as special lightning protection and are in addition to the normal 83A Protector Mountings provided at the cable terminal for open wire lines.
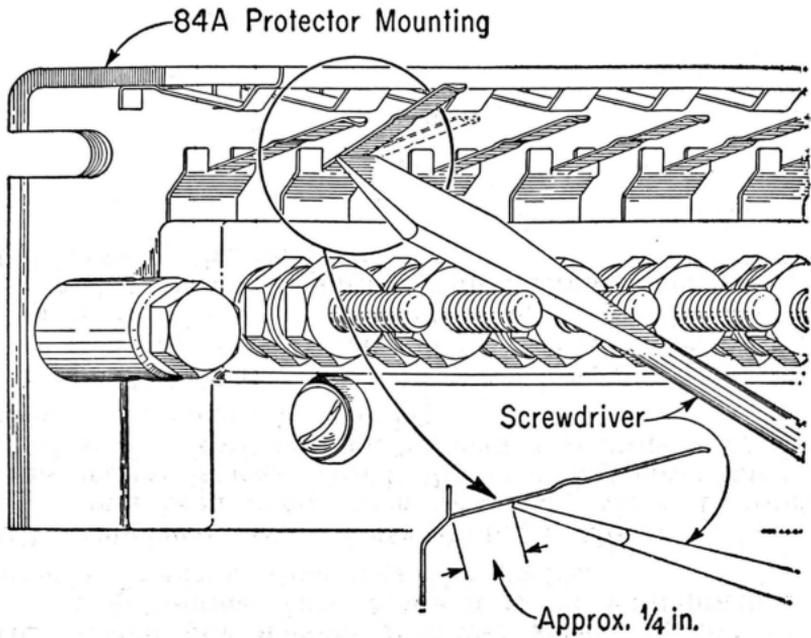
4. MAINTENANCE OF 83A PROTECTOR MOUNTING

4.01 Use No. 26 (carbon) and No. 30 (blue) protector blocks in an 83A Protector Mounting unless otherwise instructed. Equip mounting with protector blocks only as needed.

4.02 Install any missing P-16A993 shields in connection with routine visits, where it is the local practice to equip 83A Protector Mountings with shields.

4.03 Aluminum covers of 83A Protector Mountings have at times been blown open by strong winds. If trouble of this nature is experienced, the mounting cover may be secured in the closed position by using two turns of 3/4-inch friction tape around the mounting.

4.04 In some of the older 84A Protectors, the springs may have lost tension and fail to bear solidly against carbon inserts. To correct this condition, remove the protector blocks and retension the springs with a screw driver as shown in the following illustration.

84A Protector Mounting

Screwdriver

Approx. ¼ in.

If proper tension cannot be restored in this manner, replace the 84A Protector.

Note: In the retensioning operation, be careful not to "short-out" other working lines.