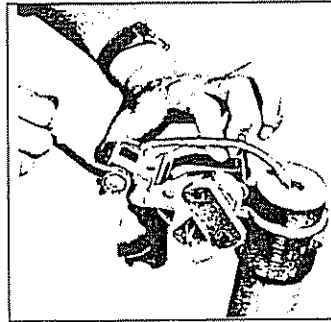




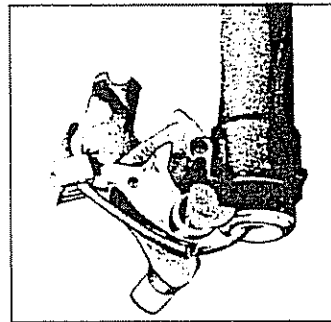
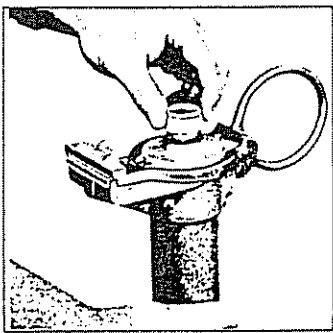
Power fuses and cutouts should be periodically inspected to insure continuity of service and identify component damage which may result in failures later in the life of the device. The following is a step by step procedure to be used for visual inspection of these protective devices:

1. Remove fuse holder from mounting assembly and remove fuse link from holder.

Check mechanical action of the trunnion assembly at the lower end of the fuse holder. Action should be smooth and positive with no tendency to jam.



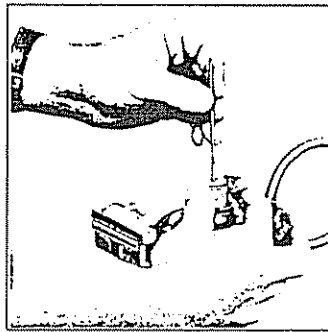
2. Inspect contact surfaces at upper and lower end of the fuse barrel. These surfaces should be free of arc spots (pitting). Power fuses employ a brazed silver strip on upper and lower fuse holder contact surfaces. If minor pitting has occurred on the surface, carefully dress by draw filing. If pitting is severe and has penetrated the silver contact surface the holder should be replaced.



3. Hold the fuse holder up so that light enters one end of the tube and inspect the internal bore of the tube. The bore should be smooth without blisters or projections which could hinder ejection of the fuse link after link separation. The fuse holder bore is lined with an organic "bone fibre" which is required for gas evolution during interruption of fault currents. This material is gray to brown in color and normally measures about 3/32 inch in thickness. If the tube bore is obstructed or if the "bone" fibre liner is less than 1/32 inch thick the holder should be replaced.

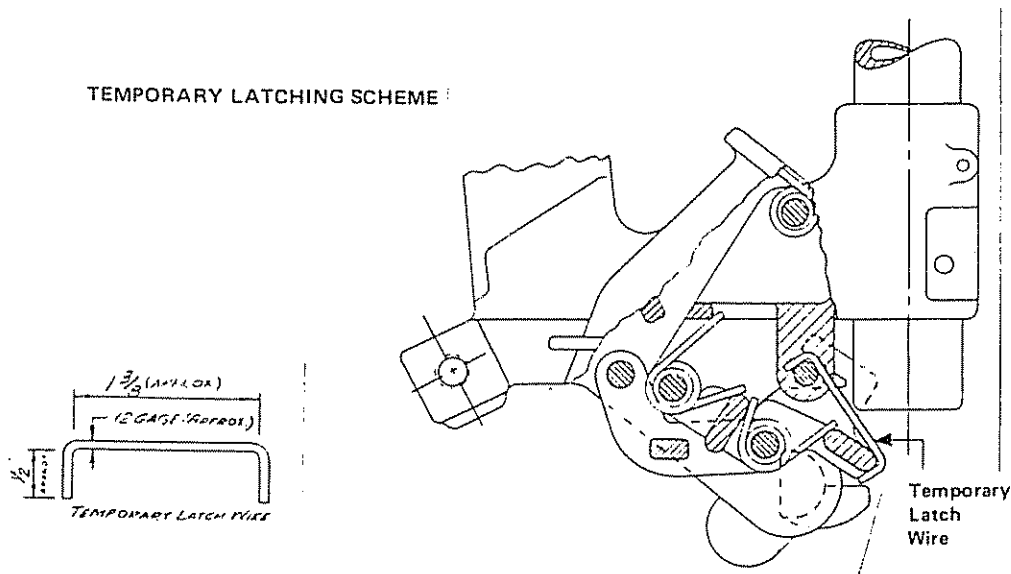


4. The fuse holder tube surface should be smooth and free from dirt or other contaminants. Tubes supplied prior to 1967 have a tendency to weather after prolonged outdoor exposure. The tube surface has a "fuzzy" appearance caused by glass filaments released from the resin bond. These tubes have been found to have adequate strength and serviceability if the surface is refinished as follows:
  1. Sand all loose filament ends off of the weathered surface.
  2. Remove all sanding residues, oil and grease with a solvent wipe.
  3. Apply two coats of any good grade of an amine alkyd type paint to the tube surface. The Effecto grade of air drying enamel sold by the Pratt and Lambert Company is suitable and should be readily available locally.
5. Inspect the upper end of the fuse holder where the fuse link button head contacts the top tube casting or insert. This surface should be clean and free of arc pits. Light filing can be used to restore this surface prior to refusing.



6. Give the fuse holder a careful overall visual inspection. Look for evidence of heating around the top hardware, bent or broken metal parts at hinge and jaw ends, charring of the fuse holder tube or other discoloration in the parts which may indicate an abnormal condition.
7. Once it has been determined that the fuse holder is in good condition, prepare a temporary latch wire as shown below. Set aside until after fuse mounting assembly inspection is complete.

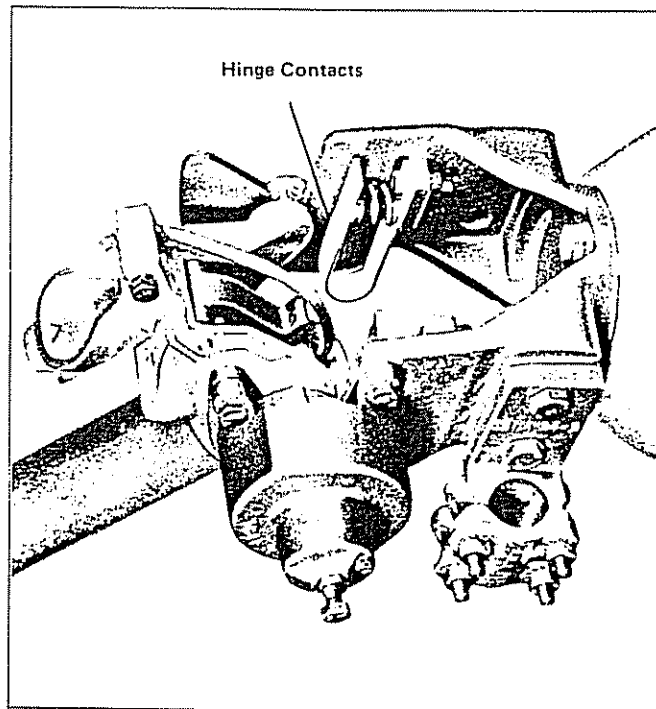
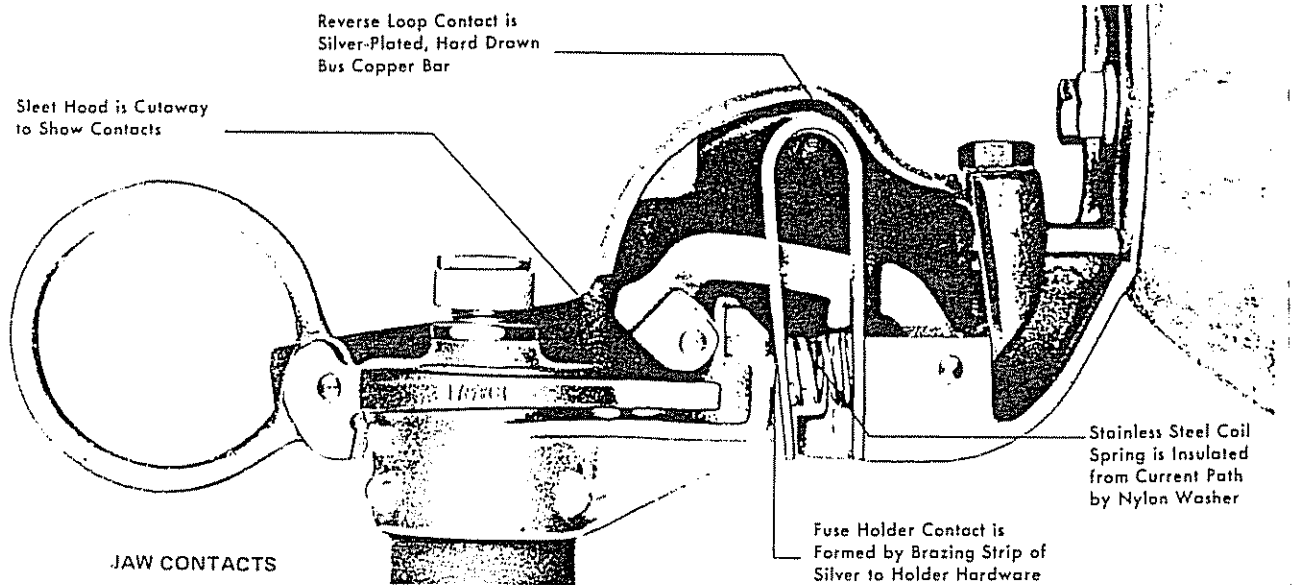
TEMPORARY LATCHING SCHEME





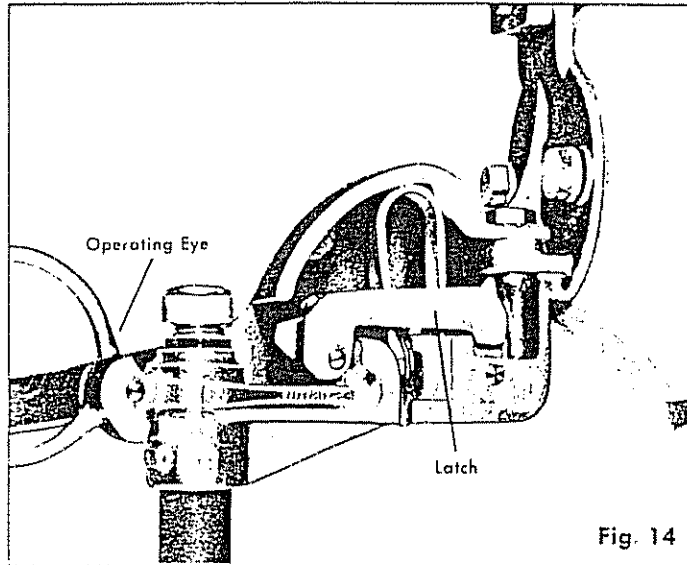
Inspection of Mounting Assembly

- Examine the fuse mounting assembly contacts. They should be smooth and clean and free from arc pits. If the contacts show minor damage dress and smooth by light draw filing. Since these contacts are silver plated, any smoothing will result in removal of the plate. Therefore after smoothing, a sealing grease (Dow Corning No. 19 or equivalent) should be applied liberally to each contact surface to aid in corrosion prevention. If the fuse mounting contacts are heavily damaged they should be replaced.

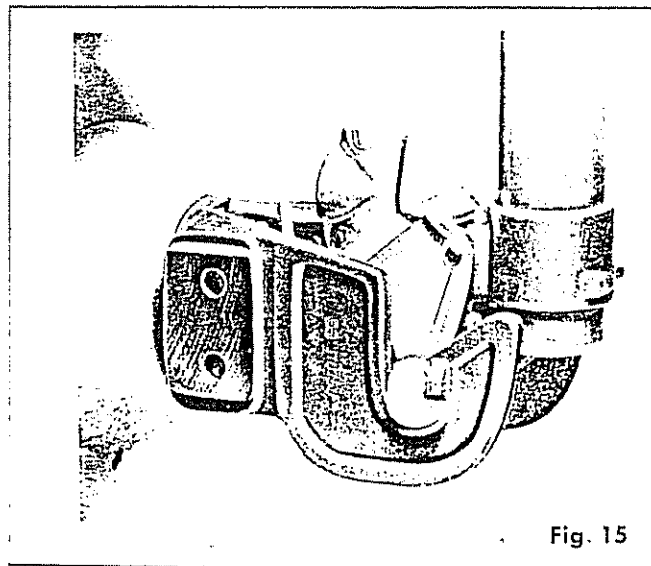




9. Inspect the jaw end latch mechanism. The latch should lift freely and the nylon roller at the latch point should be free to roll.



10. Inspect the hinge end of the mounting assembly for bent or damaged parts. The area of the hinge where fuse holder pivoting occurs should be free from corrosion deposits, evidence of current transfer, or other defects which might prevent proper drop out of the fuse holder.





- Check the jaw end of the mounting assembly to be sure that the beveled adapter has been installed correctly under the jaw live parts (vertically mounted fuse only.) Correct mounting position of this adapter is shown below.

**SPA and HPA FUSES**

- (1) Before inserting the holder in the mounting, make sure the insulator spacing dimension "A" is correct.
- (2) Make sure the adaptor is installed in the correct position as shown below.
- (3) Insert the holder into the mounting and close. With hood removed, check for 1/2" latch engagement. If necessary, adjust the jaw insulator to obtain correct latch engagement.

CORRECT POSITION OF THE ADAPTOR

KV	A
7.5	13
15	15
23	18
34.5	24
46	30
69	39
115	59
138	65
161	77

- Once the mounting assembly has been thoroughly inspected, retrieve the holder prepared in step 7 above. Place the holder in the fuse mounting and close into the jaw. All contact surfaces should mate squarely.
- While the fuse holder is closed, check the latch engagement at the jaw end as shown above.
- By an convenient means remove the temporary latch wire from the fuse holder hinge. The holder should drop out. If this does not occur, check all adjustments and repeat dropout test.
- Snubber pots are provided on all power fuses to cushion the opening of the fuse holder after link separation. As the fuse holder opens, its movement should be observed. Proper snubber action and corrective adjustments are given on pages 6 and 7 for vertical and upright power fuses respectively.
- Following satisfactory fuse holder drop-out performance re-fuse the fuse holder and return to service.

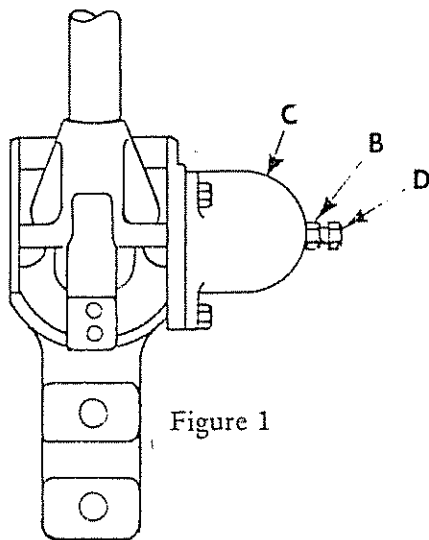


Figure 1

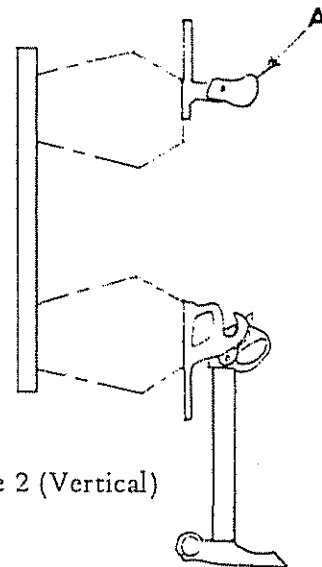


Figure 2 (Vertical)

The snubber is adjusted at the factory and should require only minor adjustment during installation.

Insert fuse holder in mounting and rotate holder to closed position. Lift sleet shield (a) and let holder swing to open position. Fuse holder should stop in position shown in Figure 2. **DO NOT FORCE INTO THIS POSITION.**

If fuse holder stops before reaching Fig. 2 position, loosen locking nut (b) on snubber and loosen adjusting bolt (d) 1/4 turn. Close fuse, lift sleet shield and let holder swing to open position. Repeat this procedure until fuse holder stops in Fig. 2 position.

If fuse holder hits terminal pad before stopping, the adjusting bolt should be tightened 1/4 turn. Close fuse, lift sleet shield and let holder swing to open position. Repeat this procedure until fuse holder stops in Fig. 2 position.

If a new or different fuse holder is being used in a mounting, or if the snubber pot must be disassembled, the snubber should be re-adjusted as follows:

Tighten adjusting bolt until the torque required to turn the bolt increases sharply; then back the bolt off one full turn and tighten locking nut. Place fuse holder in mounting and proceed as outlined above for final adjustment.

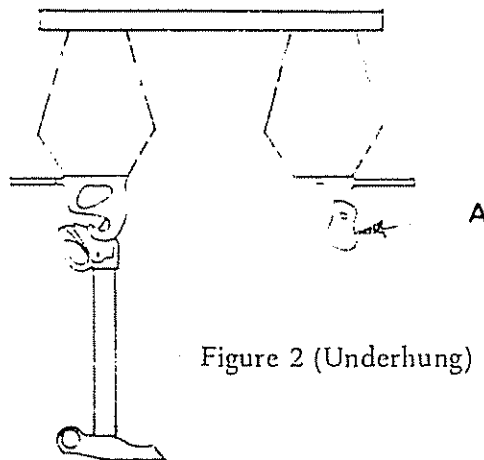


Figure 2 (Underhung)

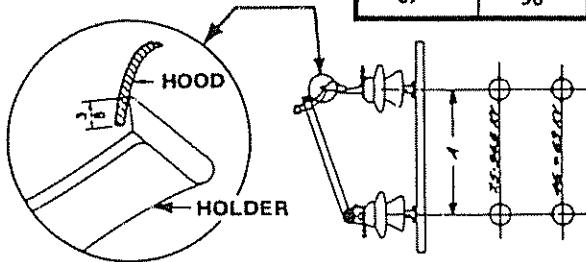
# INSTRUCTIONS

## FOR ADJUSTING FUSE HOLDER LATCHES ON SOUTHERN STATES TYPES BP, BPA, and HPA FUSES

### TYPE BP

- Before inserting the holder in the mounting make sure the insulator spacing dimension "A" is correct.
- Insert the holder in the mounting and close. Check for 3/8" latch and if necessary adjust the jaw insulator to get correct latch engagement.
- Follow the instructions on the back of this tag to test drop out action.

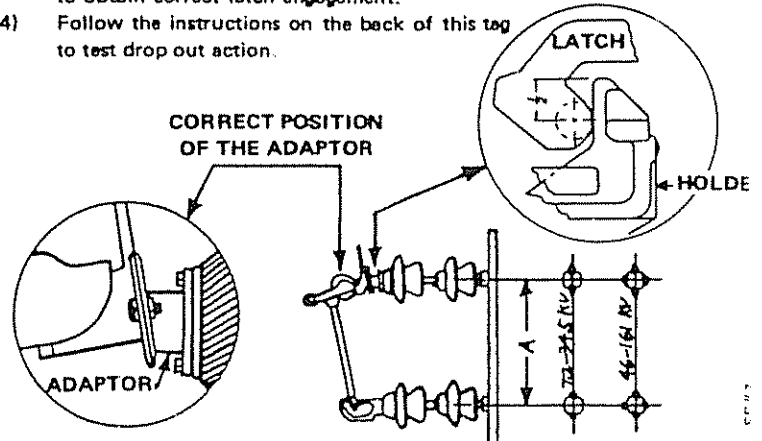
KV	A
7.5	13
15	15
23	18
34.5	24
46	30
69	36



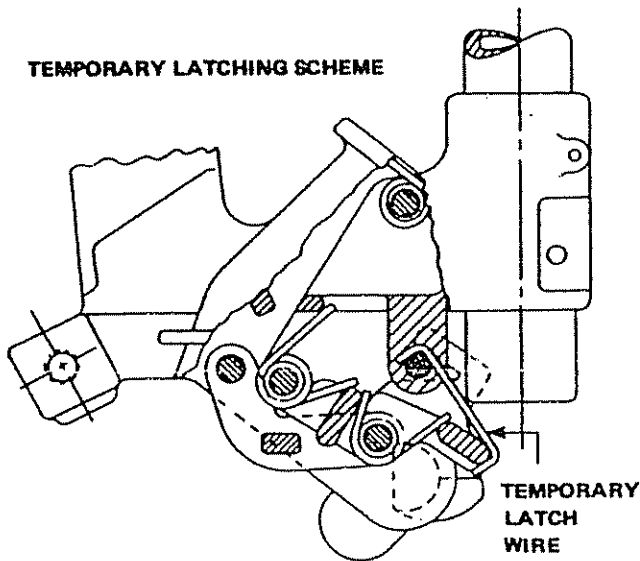
### TYPES BPA and HPA

- Before inserting the holder in the mounting make sure the insulator spacing dimension "A" is correct.
- Make sure the adaptor is installed in the correct position as shown below.
- Insert the holder in the mounting and close. With hood removed, check for 1/2" latch engagement. If necessary adjust the jaw insulator to obtain correct latch engagement.
- Follow the instructions on the back of this tag to test drop out action.

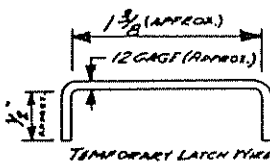
KV	A
7.5	13
15	15
23	18
34.5	24
46	30
69	39
115	59
138	65
161	77



### TEMPORARY LATCHING SCHEME



Southern States, Inc.  
A Gulton Company  
Georgia Avenue  
Hampton, Ga. 30228  
404-946-4562



### DROP OUT TEST INSTRUCTIONS

- Remove the fuse holder from the fuse mounting.
- Remove the fuse link from the fuse holder.
- Make from approximately 12 gage wire the temporary latch wire as shown.
- Close the hinge assembly by placing the latch casting over the latch pin.
- Place the temporary latch wire over the latch pin and the link ejector casting as shown in the sketch.
- Replace the holder in the fuse mounting and close it into the jaw.
- By any convenient means, remove the temporary latch wire. The holder should drop out. If this does not occur, check all adjustments. Repeat the dropout test after readjustments are made.
- Replace the fuse link in the fuse holder and return the fuse to service.

Southern States, Inc. **gulton** company

SSI Part No. 01990237