



## ASSEMBLY

## INSTALLATION

## INSTRUCTIONS

## TYPE DBA FUSES

7.5 to 138 kv

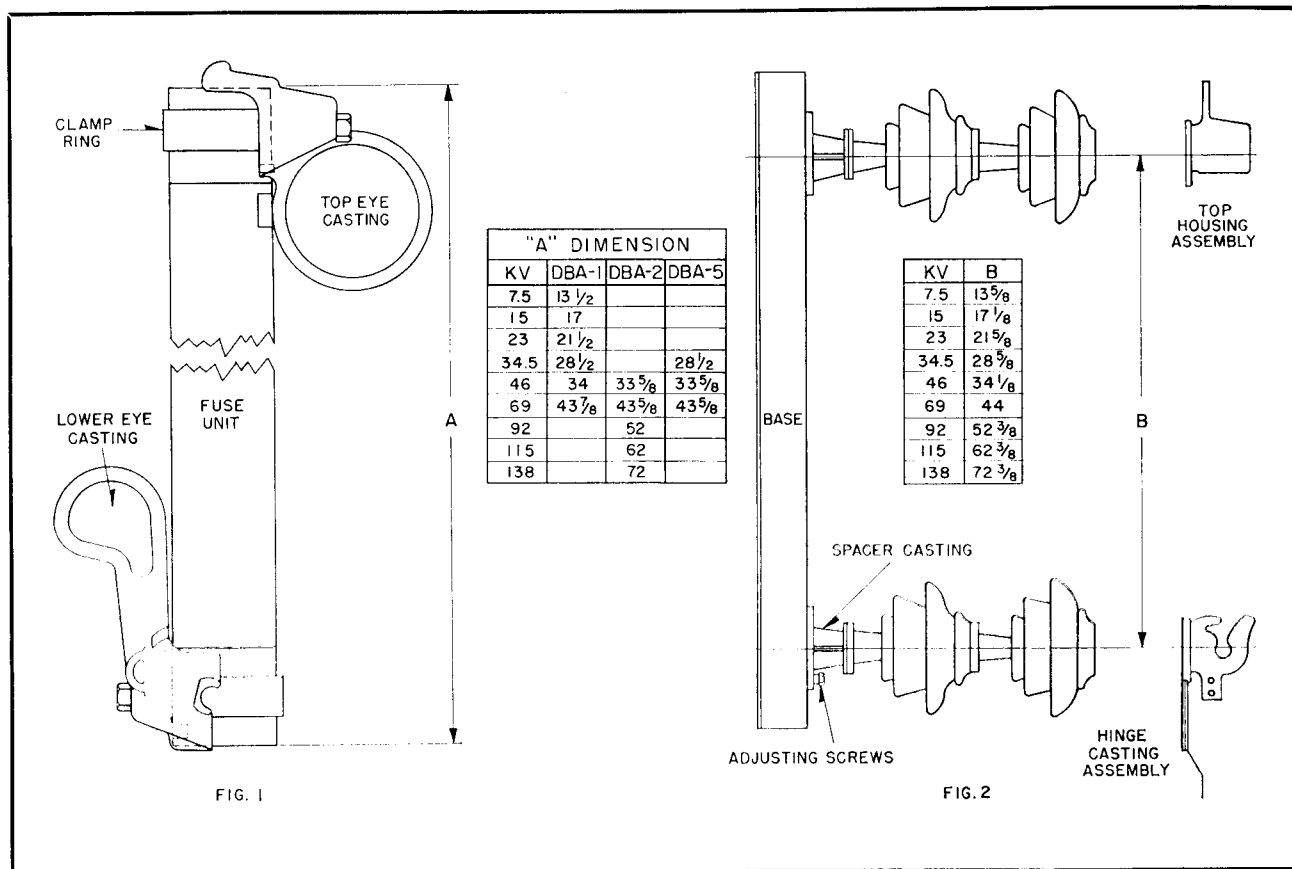


FIG. 1. Fuse Unit—Fittings and Dimensions

FIG. 2. Typical Fuse Mounting and Dimensions

## ASSEMBLY

**1. 7.5 to 46 kv Fuse Mountings.** (Assembled and gauged at factory). When contact adjustment is required after bolting the mounting to supporting structure, slotted holes in base permit changing insulator spacing.

A. If contact pressure is too low, loosen bolts holding top insulator to the base and move top insulator down. Retighten bolts.

B. If contact pressure is too great, loosen bolts holding lower insulator to the base and move lower insulator down. Retighten bolts.

**2. 69 to 138 kv Fuse Mountings.** (Assembled in the field).

A. Remove live parts from base.

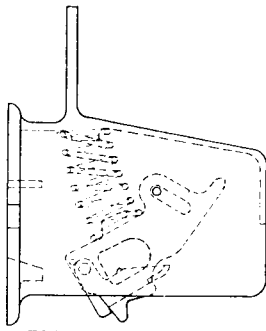
B. Attach insulators to base.

C. Attach live parts to insulators. (Hinge casting assembly on stack has adjustable spacer casting).

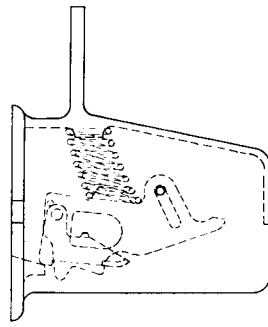
D. Use adjusting screws to obtain correct "B" dimension and contact pressure as in Fig. 10.

Tilt insulators together to increase contact pressure. (Use adjusting screws on bottom of spacer casting).

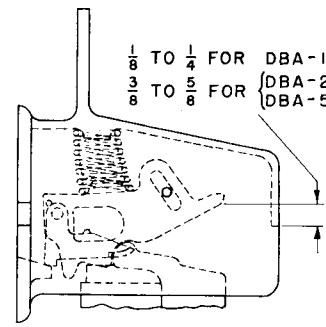
**TYPE DBA FUSES**



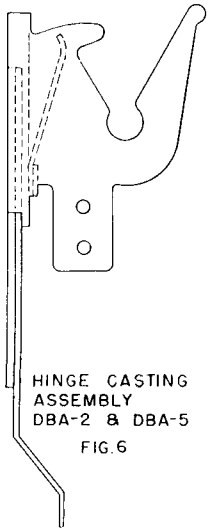
TOP HOUSING ASSEMBLY  
TRIPPED POSITION  
FIG. 3



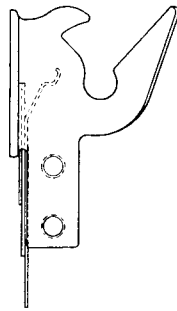
TOP HOUSING  
NORMAL OR LATCHED POSITION  
FIG. 4



$\frac{1}{8}$  TO  $\frac{1}{4}$  FOR DBA-1  
 $\frac{3}{8}$  TO  $\frac{5}{8}$  FOR DBA-2  
DBA-5  
TOP HOUSING  
LATCHED POSITION WITH FUSE  
FIG. 5



HINGE CASTING  
ASSEMBLY  
DBA-2 & DBA-5  
FIG. 6



HINGE CASTING  
ASSEMBLY DBA-1  
FIG. 7

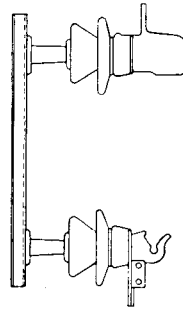


FIG. 8

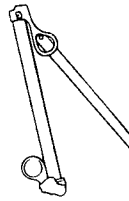


FIG. 9

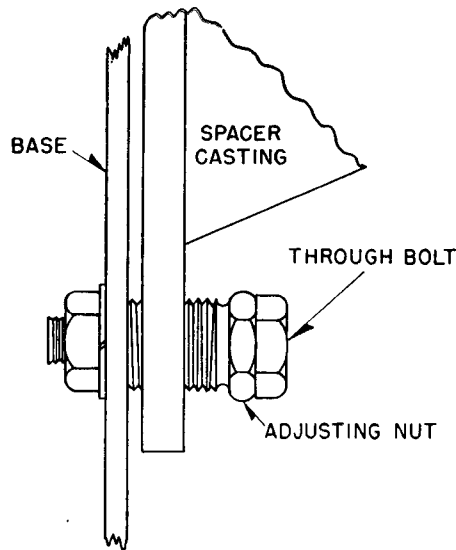


FIG. 10

1. LOOSEN (4) THROUGH BOLTS
2. TURN ADJUSTING NUT DESIRED AMOUNT
3. RETIGHTEN (4) THROUGH BOLTS

Tilt insulators apart to decrease contact pressure. (Use adjusting screws on top of spacer casting).

E. Bolt mounting to supporting structure and attach leads.

F. Recheck contact and disconnect. Make adjustments as per step "D", paragraph 2.

### **INSTALLATION**

**1.** Unpack. Remove all packing material. Remove fuse unit fittings from hinge casting.

**2.** Attach fuse unit fittings to fuse unit. See Fig. 1.

A. Match the boss on each fitting with holes drilled in fuse ferrule to ensure correct line-up.

**3.** Put fuse unit in assembled but unmounted fuse mounting.

A. Lower eye casting should rotate freely in hinge casting.

B. When upper eye casting enters top housing, the top contact lever should move from either

position Fig. 3 or Fig. 4 to position shown in Fig. 5, and effectively latch fuse unit in closed position.

C. The correct position of top contact lever is shown in Fig. 5.

D. A hard pull should be necessary to unlatch the fuse unit.

**4.** Bolt mounting in place with base vertical.

A. Use shims to prevent base distortion when bolting to uneven surfaces.

**5.** Attach leads so that no stress is put on insulators of fuse mounting.

**6.** Lift fuse unit into mounting and operate as a disconnect, Figs. 8 and 9.

A. Recheck position of top contact lever with fuse closed.

B. Recheck effort required to disconnect fuse unit.

**7.** If incorrect contact exists, shift insulators together to increase contact, or apart to decrease contact pressure as described in paragraph 3D of Assembly Instructions.



**WESTINGHOUSE ELECTRIC CORPORATION**  
**EAST PITTSBURGH PLANT • SWITCHGEAR DIVISION • EAST PITTSBURGH, PA.**

Printed in U.S.A.





# ASSEMBLY • INSTALLATION INSTRUCTIONS

## TYPE DBA FUSES

7.5 to 138 kv

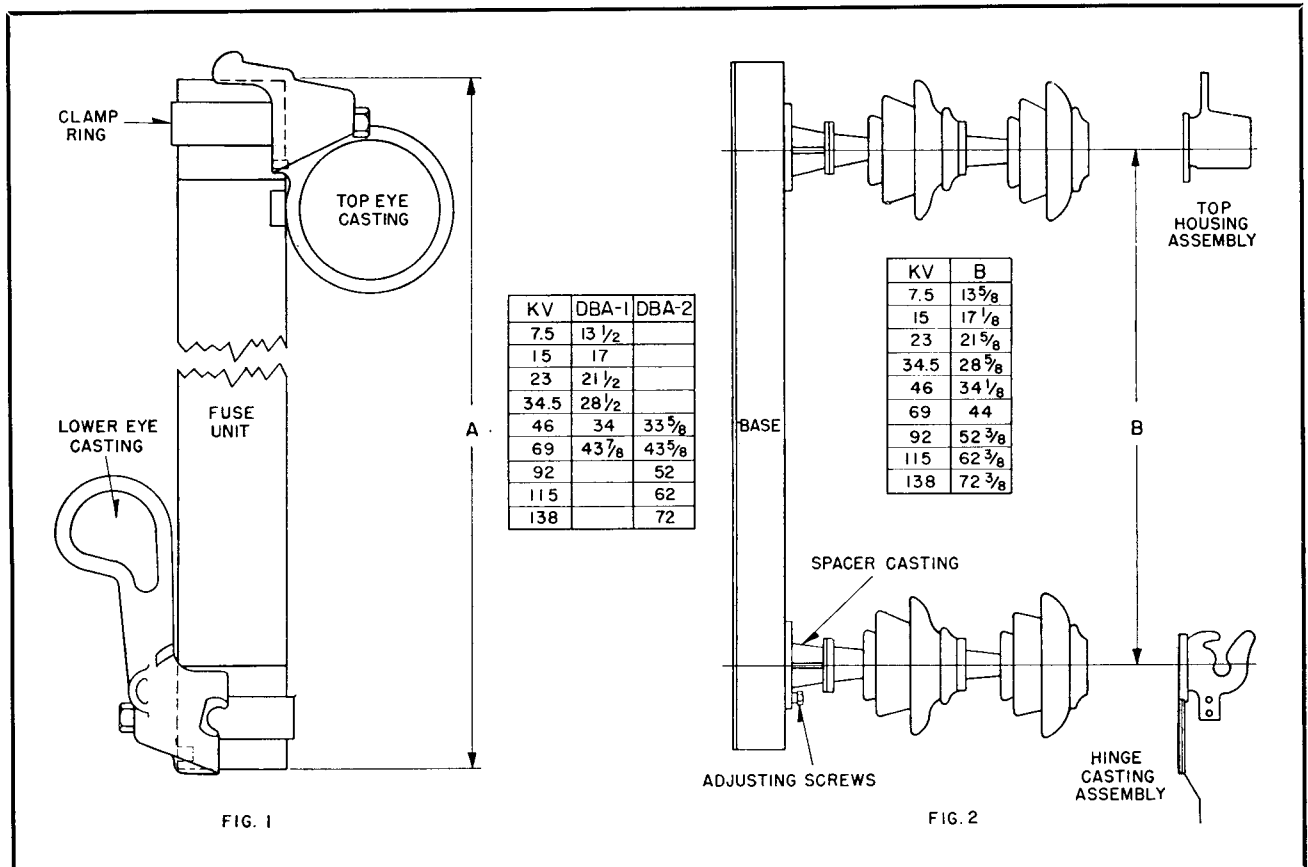


FIG. 1. Fuse Unit—Fittings and Dimensions

FIG. 2. Typical Fuse Mounting and Dimensions

### ASSEMBLY

**1. 7.5 to 46 kv Fuse Mountings.** (Assembled and gauged at factory). When contact adjustment is required after bolting the mounting to supporting structure, slotted holes in base permit changing insulator spacing.

A. If contact pressure is too low, loosen bolts holding top insulator to the base and move top insulator down. Retighten bolts.

B. If contact pressure is too great, loosen bolts holding lower insulator to the base and move lower insulator down. Retighten bolts.

**2. 69 kv Fuse Mountings.** (Assembled in the field).

A. Remove live parts from base.

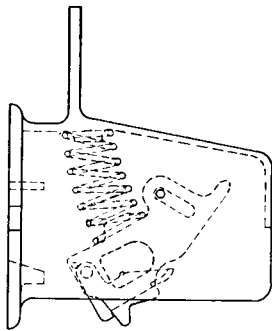
B. Attach insulators to base; maintain "B" dimension at top of insulators. (See Fig. 2).

C. Attach live parts to top of insulators. Use fuse unit with fittings attached to line up contacts in live parts.

D. Bolt mounting to supporting structure and attach leads.

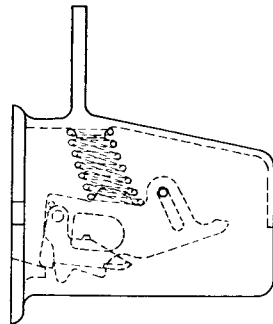
E. Recheck contact and disconnect. Make adjustments as per paragraph 1.

**TYPE DBA FUSES**



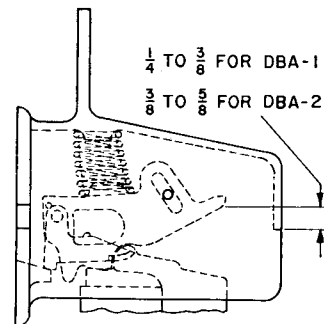
TOP HOUSING ASSEMBLY  
TRIPPED POSITION

FIG. 3



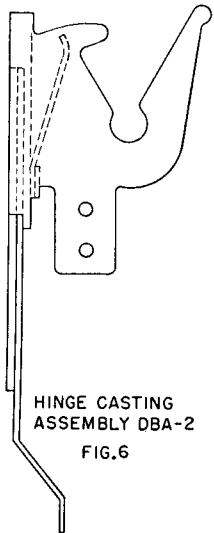
TOP HOUSING  
NORMAL OR LATCHED POSITION

FIG. 4



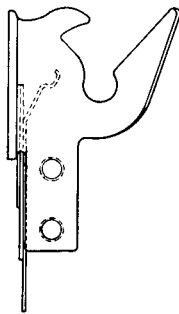
TOP HOUSING  
LATCHED POSITION WITH FUSE

FIG. 5



HINGE CASTING  
ASSEMBLY DBA-2

FIG. 6



HINGE CASTING  
ASSEMBLY DBA-1

FIG. 7

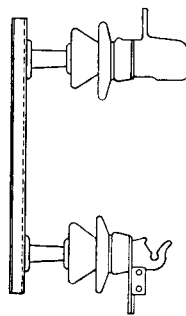


FIG. 8

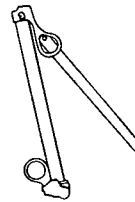


FIG. 9

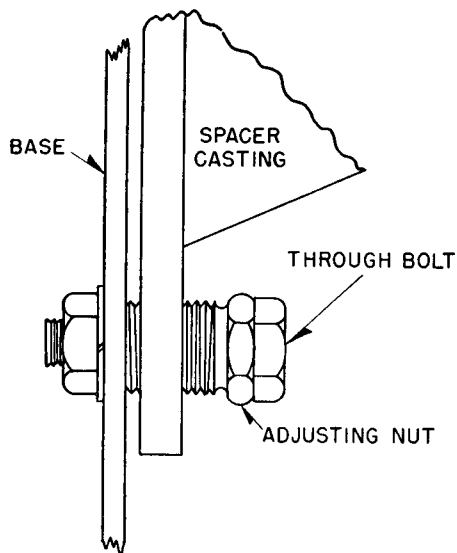


FIG. 10

1. LOOSEN (4) THROUGH BOLTS
2. TURN ADJUSTING NUT DESIRED AMOUNT
3. RETIGHTEN (4) THROUGH BOLTS

**3. 92 to 138 kv Fuse Mountings.** (Assembled in the field).

A. Remove live parts from base.

B. Attach insulators to base.

C. Attach live parts to insulators. (Hinge casting assembly on stack has adjustable spacer casting).

D. Use adjusting screws to obtain correct "B" dimension and contact pressure as in Fig. 10.

Tilt insulators together to increase contact pressure. (Use adjusting screws on bottom of spacer casting).

Tilt insulators apart to decrease contact pressure. (Use adjusting screws on top of spacer casting).

E. Bolt mounting to supporting structure and attach leads.

F. Recheck contact and disconnect. Make adjustments as per step "D", paragraph 3.

### INSTALLATION

**1.** Unpack. Remove all packing material. Remove fuse unit fittings from hinge casting.

**2.** Attach fuse unit fittings to fuse unit. See Fig. 1.

A. Match the boss on each fitting with holes drilled in fuse ferrule to ensure correct line-up.

**3.** Put fuse unit in assembled but unmounted fuse mounting.

A. Lower eye casting should rotate freely in hinge casting.

B. When upper eye casting enters top housing, the top contact lever should move from either position Fig. 3 or Fig. 4 to position shown in Fig. 5, and effectively latch fuse unit in closed position.

C. The correct position of top contact lever is shown in Fig. 5.

D. A hard pull should be necessary to unlatch the fuse unit.

**4.** Bolt mounting in place with base vertical.

A. Use shims to prevent base distortion when bolting to uneven surfaces.

**5.** Attach leads so that no stress is put on insulators of fuse mounting.

**6.** Lift fuse unit into mounting and operate as a disconnect, Figs. 8 and 9.

A. Recheck position of top contact lever with fuse closed.

B. Recheck effort required to disconnect fuse unit.

**7.** If incorrect contact exists, shift insulators together to increase contact, or apart to decrease contact pressure as described in paragraph 3D of Assembly Instructions.



**WESTINGHOUSE ELECTRIC CORPORATION**  
**EAST PITTSBURGH PLANT • SWITCHGEAR DIVISION • EAST PITTSBURGH, PA.**

Printed in U.S.A.

