SUPPLEMENT TO I-T-E VERTICAL-BREAK SWITCH INSTRUCTIONS

SUPERSEDES SIMILAR INFORMATION IN INSTRUCTION BOOKS

IB-1240-2A, IB-1240-3A, IB-1240-4A and IB-1342A

BLADE CONTACT ANGLE

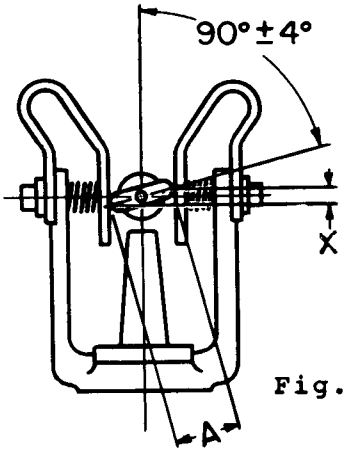

Fig. 1

Fig. 1 shows blade in closed position. The allowable difference in elevation from one side of the blade contact to the other (dimension X) is 1/16" for each 1" of contact width. Example: If contact width (A) is 3" then dimension(X) can be as much as 3/16" and still be within the plus or minus 4° tolerance.

Also, Fig. 1 shows blade contact high on the right and low on the left. The reverse is also acceptable, high on the left and low on the right. It is common to have both situations on one three-pole switch. In fact, after all three poles have been adjusted in the open position, and then closed, you may find one pole will be high on the right, one fairly level and one high on the left. This is due to many variables and tolerances plus the free play or clearance in pin connections of all the switches and control parts.

This variance in contact angle is nothing to be concerned about because there is no measurable reduction in contact pressure until the blade gets to an angle of more than 8°.

BLADE HEIGHT

In Fig. 2, dimension (H)can vary from about 1/8" to 5/8" or a little more, with the switch in the closed position. It is not usually possible to get this dimension to be equal on all poles of a three-pole switch. If necessary to vary this dimension, remove crank pin (B) and screw clevis (C) in or out 1/2 turn then reconnect and try switch. Repeat if necessary, but be very careful not to screw clevis (C) out too far so that the blade is forced down hard against the fulcrum. This can cause damage to internal parts at the hinge end.

OPEN BLADE STOP

On certain switches, there are stops for the blade in the open position, as shown at (D) below. Most of these stops have flat washers that can be relocated to raise or lower this stop. Again, be reminded that all three poles may not look exactly alike at this stop. Some poles may deflect the heavy neoprene ring more than other poles.

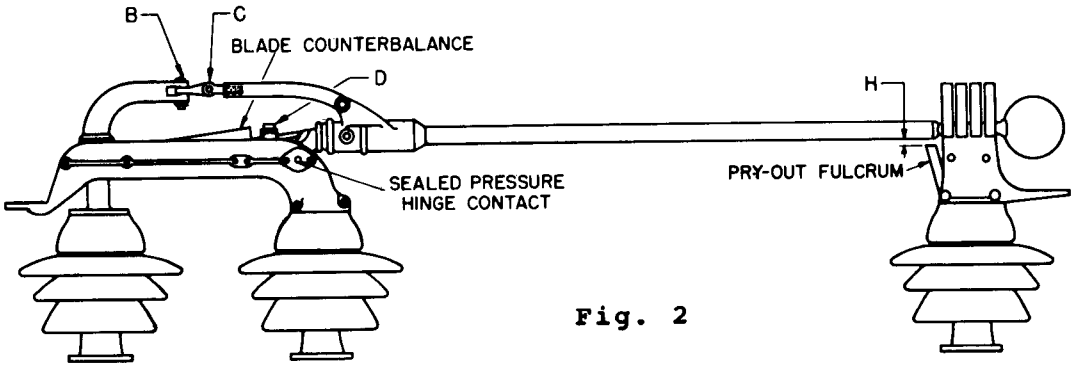

Fig. 2

(See reverse side for Special Notes)

SPECIAL NOTES

1. If the fourth bearing at the top of the vertical operating pipe has an adjustable crank, it is usually necessary to add 1/4" to 1/2" to the trial radius given on the control drawing to get the required travel. This makes up for lost motion and clearances in pin holes and will also provide a definite audible sound accompanied by a reasonable amount of deflection in the structural members when the crank crosses the dead center position. This serves as a signal to the operator that the switch is fully open or closed.

2. When adjusting the interphase rods to the proper length, please observe the following:

   a. With all switches open, lengthen the interphase rods that were in compression during opening as much as possible yet allowing for the pins to be inserted.

   b. On the rods that were in tension during opening, shorten them as much as possible yet allowing for the pins to be inserted.

   c. The offset link between the fourth bearing and the driven switch should be handled the same way.

ITE Imperial Corporation

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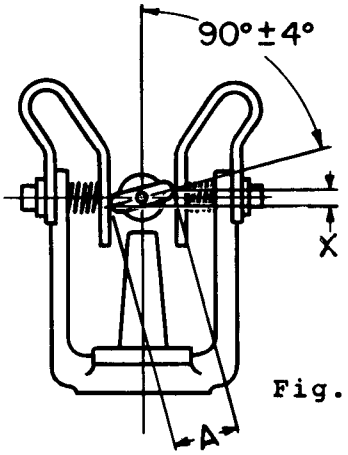

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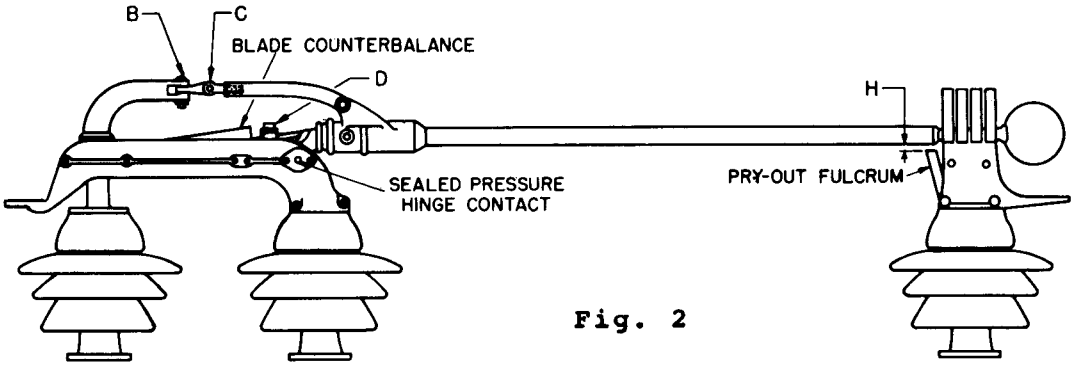

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