

Installation/Operating Instructions

K656DR & K676DR

Deadbreak Insulated Cap with Test Point

CONTENTS: *Insulated Cap, Lubricant (Do Not Substitute), Stud (if applicable), Installation Instructions.*

The K656DR/K676DR is designed for insulating, shielding and watersealing any ELASTIMOLD® 15kV class (8.3kV phase-to-ground) and 28kV class (16.2 kV phase-to-ground) 600 amp deadbreak bushing interface.

DANGER

All apparatus must be de-energized during installation or removal of part(s). For loadbreak products follow operating instructions. All deadbreak connectors must be de-energized before operating. All 200A deadbreak connectors must be mechanically secured with bails when connected.

All apparatus must be installed and operated in accordance with individual user, local, and national work rules. These instructions do not attempt to provide for every possible contingency.

Do not touch or move energized products in the work area.

Excess distortion of the assembled product may result in its failure.

Inspect parts for damage, rating and compatibility with mating parts.

This product should be installed only by competent personnel trained in good safety practices involving high voltage electrical equipment. These instructions are not intended as a substitute for adequate training or experience in such safety practices.

Failure to follow these instructions will result in damage to the product and serious or fatal injury.

If this product is supplied with a protective shipping cover(s), remove this shipping cover(s) and replace with the appropriate HV insulated cap(s) or connector(s) before submerging or energizing the circuit.

FOR MORE INFORMATION ON PARTS, INSTALLATION RATINGS AND COMPATIBILITY, CALL THE NEAREST ELASTIMOLD® OFFICE.

Limited Warranty:

1. T&B warrants that its products will be free from defects in materials or workmanship for a period of two (2) years, except for tools which are warranted for 90 days. Fisher Pierce® products and Elastimold® Reclosers are warranted for three years; and Joslyn™ VBT and VBU capacitor switches are warranted for four years or 40,000 operations whichever occurs first. Upon prompt notification of a warranted defect, T&B will, at its option, repair or replace the defective product.
2. In no event shall T&B be liable for any consequential, indirect or special damages, nor will T&B be liable for transportation, labor, or other charges arising out of the removal or reinstallation of its products. Liability for breach of warranty is limited to the cost of repair or replacement of the warranted product only.
3. Misuse, misapplication or modification of T&B products immediately voids all warranties.

THE WARRANTIES AND REMEDIES CONTAINED HEREIN ARE EXCLUSIVE AND ARE IN LIEU OF ALL OTHER WARRANTIES AND REMEDIES, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE SPECIFICALLY DISCLAIMED.

IMPORTANT

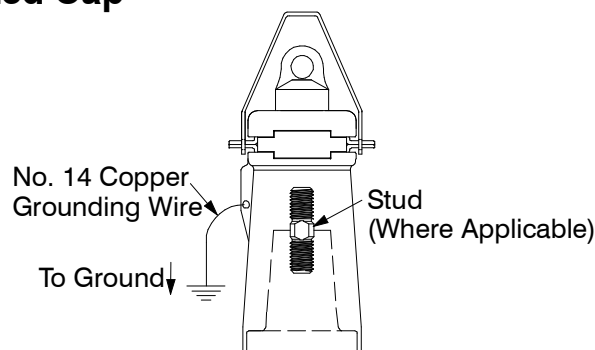
1. Check contents of package to ensure they are complete and undamaged.
2. Check all components to ensure proper fit with cable and/or mating products.
3. Read entire installation instructions before starting.
4. Have all required tools at hand and maintain cleanliness throughout the procedure.

Installing The Insulated Cap

STEP 1

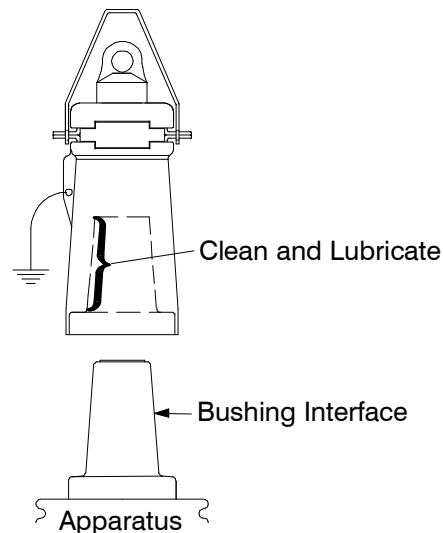
Insert a length of No. 14 AWG (2.5mm²) copper wire (or equivalent) through the grounding eye of the insulated cap. Make a small loop and twist tight, taking care not to damage the grounding eye. Connect free end of grounding wire to the system ground using a connector specified by the utility. Length of grounding wire should be sufficient for the distance from the grounding point to the grounding eye of the insulated cap when installed.

If the bushing is not equipped with a stud, hand assemble the stud supplied into the insulated cap. If the bushing is equipped with a stud, discard the stud supplied.



STEP 2

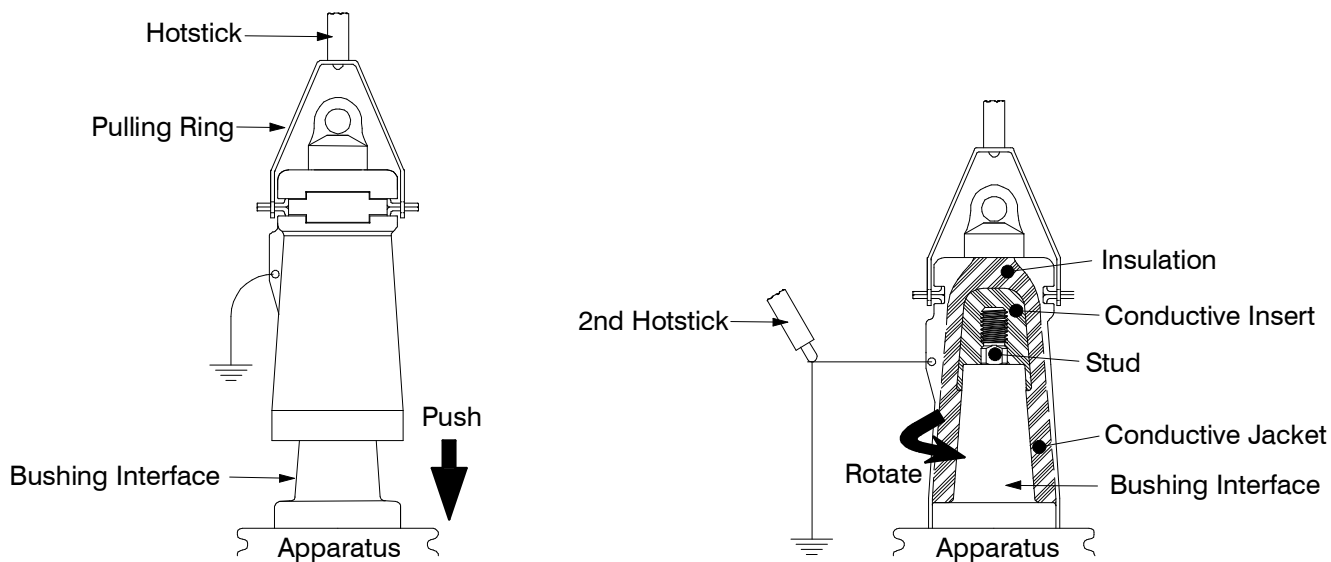
In new installations, where the bushing is known to be de-energized, thoroughly wipe the bushing interface and the insulated cap interface clean of all contaminants. Lubricate above surfaces with the supplied lubricant or Elastimold approved lubricant. On circuits previously energized, clean and lubricate **only** the interface of the insulated cap.



STEP 3

During installation of the insulated cap, the grounding wire will be wrapped around the body of the insulated cap. A second hotstick will be required to control the tension and position of the grounding wire. The wire should be wrapped loosely about the center of the insulated cap.

Attach the first hotstick tool to the insulated cap pulling ring and push receptacle onto bushing interface as far as it will go. With the second hotstick, engage grounding wire and establish slight tension (see illustration). With first hotstick, while pushing against the bushing interface, twist clockwise until the threads between bushing and insulated cap engage; continue turning without pushing until resistance is felt. **DO NOT OVERTIGHTEN.**

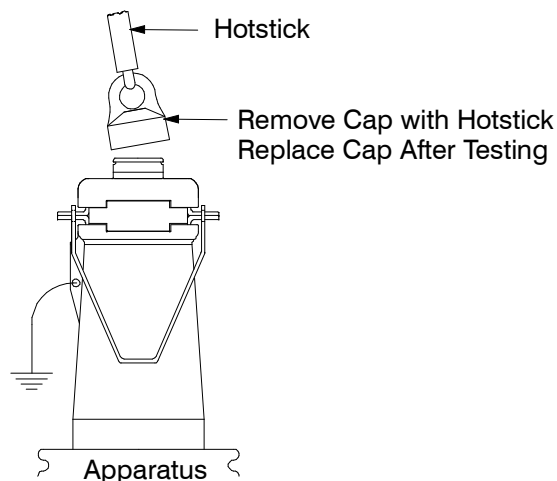


Removing The Insulated Cap

WARNING: DO NOT DISCONNECT WHILE ENERGIZED.

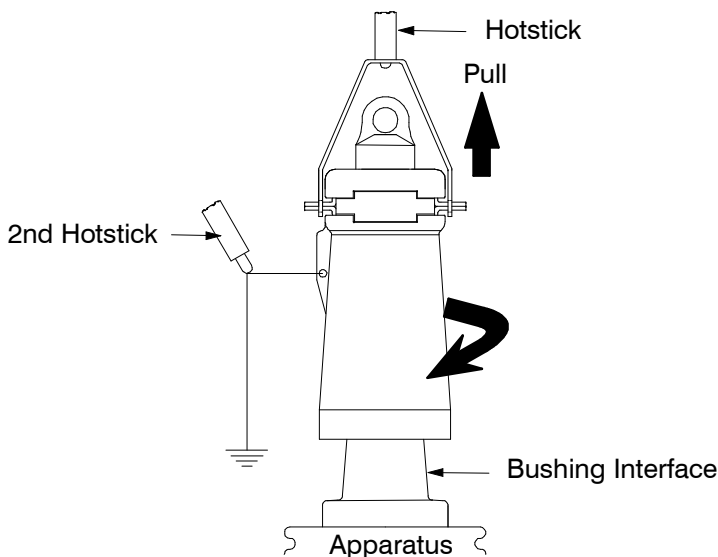
STEP 1

To determine if the system is energized, remove the voltage detection point cap with a hotstick. To remove cap, PEEL OFF AT AN ANGLE rather than pulling directly in line with the voltage detection assembly. Use an appropriate high impedance testing device to check the voltage detection point for indication of circuit condition. (See Voltage Test below) **Replace the voltage detection point cap.**



STEP 2

After the circuit is confirmed to be de-energized, securely fasten a hotstick to the pulling ring. Without exerting any pulling force, rotate the receptacle **counter-clockwise** eight or nine turns. With a second hotstick tool, control the unwound ground wire so that the wire will not interfere with adjacent devices or entangle itself with the first hot stick tool. Then exert pulling force to remove the insulated cap from the bushing interface.



VOLTAGE TEST

The ELASTIMOLD® deadbreak elbow connector is equipped with an integral capacitance test point that can be used to establish whether or not the circuit is energized. When using the test point, complete the following steps:

1. Remove test point cap with a hotstick. To remove cap, PEEL OFF AT AN ANGLE rather than pulling directly in line with the test point assembly.
2. **WARNING: THE VOLTAGE TEST POINT IS A CAPACITANCE DEVICE, IT IS NOT DIRECTLY CONNECTED TO THE CONDUCTOR.** It requires the use of specially designed instruments. Do not use conventional voltage measuring equipment. Follow the manufacturer's directions for the meter that is used. Test with a suitable sensing device, made for use with separable connectors manufactured with capacitive test points, to determine if cable is energized. Contamination, moisture, dirt, etc. around the test point or use of the wrong measuring equipment can provide a false "no voltage" indication on an energized elbow. To prevent serious or fatal injury treat the elbow as energized until the "no voltage" test point indication is confirmed by other means.
3. After voltage detection has been made, clean and lubricate the inside surface of the cap with lubricant and replace it on the test point.

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