

Operating Instructions 373FT Feed-Thru/Grounding Device

CONTENTS: Feed-Thru Body complete with mounting hardware, Lubricant (DO NOT SUBSTITUTE), Operating Instructions.

The 373FT is designed to interface with ELASTIMOLD 35kV class (21.1 phase-to-ground and 36.6kV phase-to-phase) loadbreak connectors for the following functions:

A. A junction point. **B.** A grounding point.
To use the feed-thru as a junction point, follow steps 1 to 7.

This product incorporates vents for improved switching performance. The product is identified by a white ID washer attached to the eyebolt.

DANGER

All apparatus must be de-energized during installation or removal of part(s) except for test point caps and indicators that can be installed and operated energized.

After installation loadbreak products can be operated energized per operating instructions. All deadbreak connectors must be de-energized before operating.

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.

“Loadbreak connectors must be operated with a full insulated “hotstick” type live-line tool.” Consult the company’s safe work practices for the required live-line tool length.

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

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.

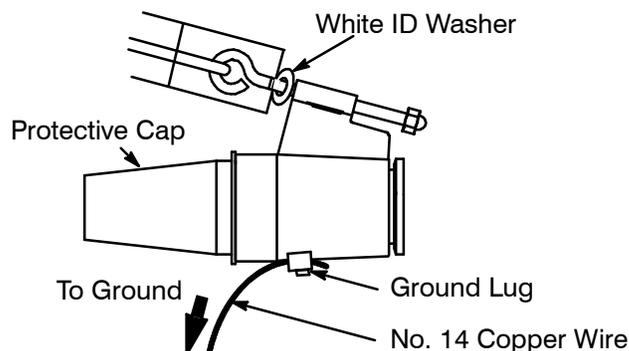
IMPORTANT

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.

STEP 1

Grounding— Insert ground lead into the grounding lug provided on the mounting hardware and tighten lug. Ground lead should be No. 14 copper wire or equivalent. Connect the opposite end of the lead to ground, leaving enough slack to operate with a hotstick.

CAUTION: Keep the ground wire clear from the operating interfaces.

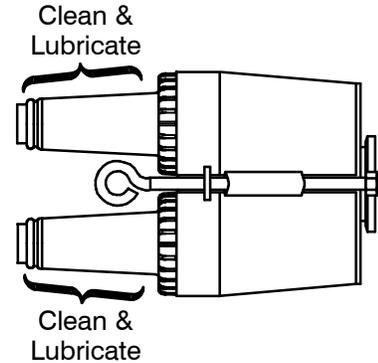


STEP 2

Remove the protective caps from the bushings of the feed-thru.

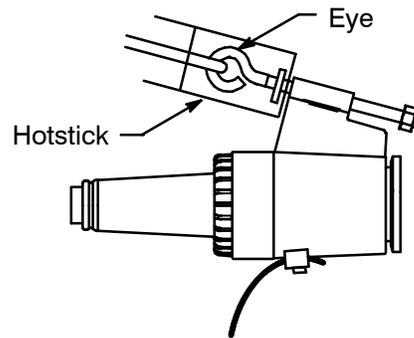
WARNING: PROTECTIVE CAPS MUST NOT BE ON THE BUSHINGS OF THE FEED-THRU WHEN THE FEED-THRU IS ENERGIZED. When the feed-thru is not in use, the protective caps should be placed on the bushings of the feed-thru to protect them from dirt and other contaminants.

Clean the bushing surfaces and lubricate them with the lubricant supplied. **DO NOT SUBSTITUTE.** Other lubricants may be harmful to this product and its mating product(s).



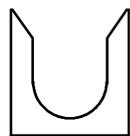
STEP 3

Attach feed-thru eye firmly to hotstick.



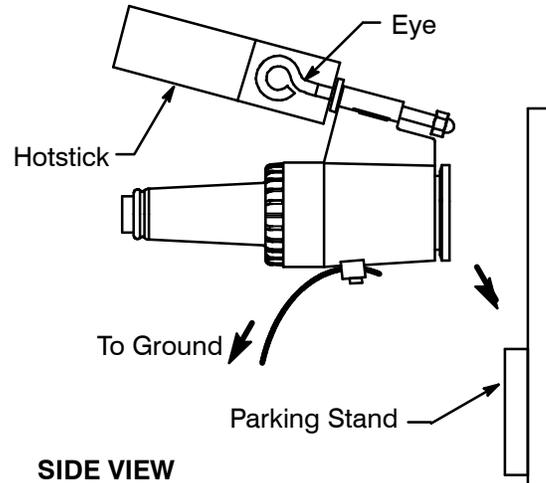
STEP 4

Using a hotstick, slide feed-thru onto parking stand. Unlock hotstick and back off, to allow space for eyebolt to be tightened. Tighten eyebolt by rotating hotstick clockwise until snug. **DO NOT OVERTIGHTEN.** Release hotstick.



Parking Stand

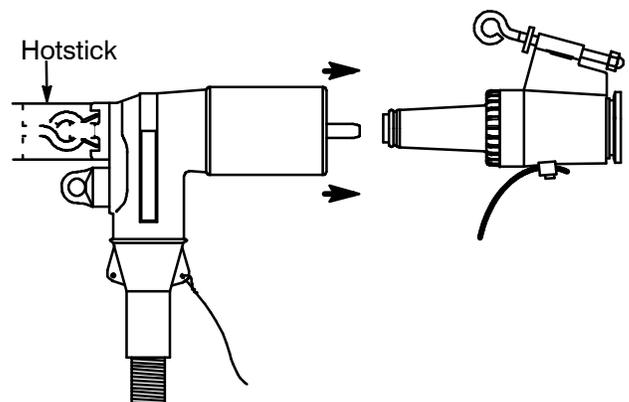
FRONT VIEW



SIDE VIEW

STEP 5

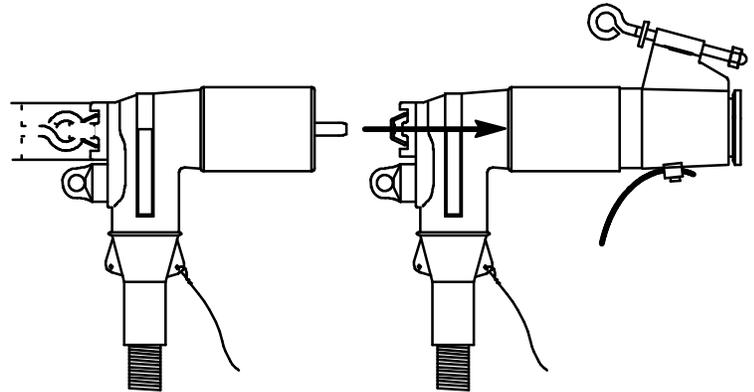
Remove one loadbreak elbow from its apparatus loadbreak bushing following the applicable loadbreak operating instructions (IS-375/376LR). Using a hotstick, firmly attached to the elbow, insert the probe tip into one feed-thru approximately 2". Immediately push the elbow home with a fast, firm straight motion which will engage the internal lock on the mating interfaces.



FOR JUNCTION POINT APPLICATION FOLLOW STEPS 6 AND 7

STEP 6

Remove second loadbreak elbow, following the applicable LOADBREAK operating instructions (IS-375/376LR). Using a hotstick, firmly attached to the elbow, insert the probe tip into the remaining feed-thru approximately 2". Immediately push the elbow home with a fast, firm straight motion which will engage the internal lock on the mating interfaces.



STEP 7

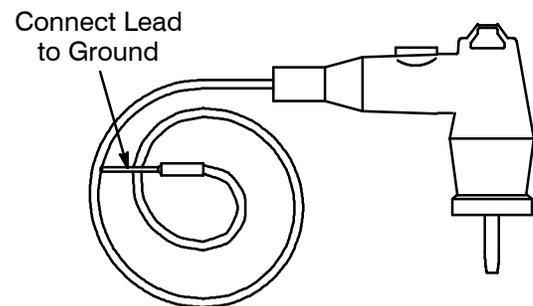
When it is desired to reconnect the elbow(s) to the apparatus bushing(s), first make certain no faults exist on the system. To return the loadbreak elbow to the apparatus bushing, reverse the operational sequence, following the applicable loadbreak-loadmake operating instructions.

FOR GROUNDING POINT APPLICATION FOLLOW STEPS 8 TO 9

STEP 8A

Connect lead on ELASTIMOLD 370GLR grounding elbow to ground.

IMPORTANT: Do not insert grounding elbow into feed-thru unless circuit has been tested "dead".



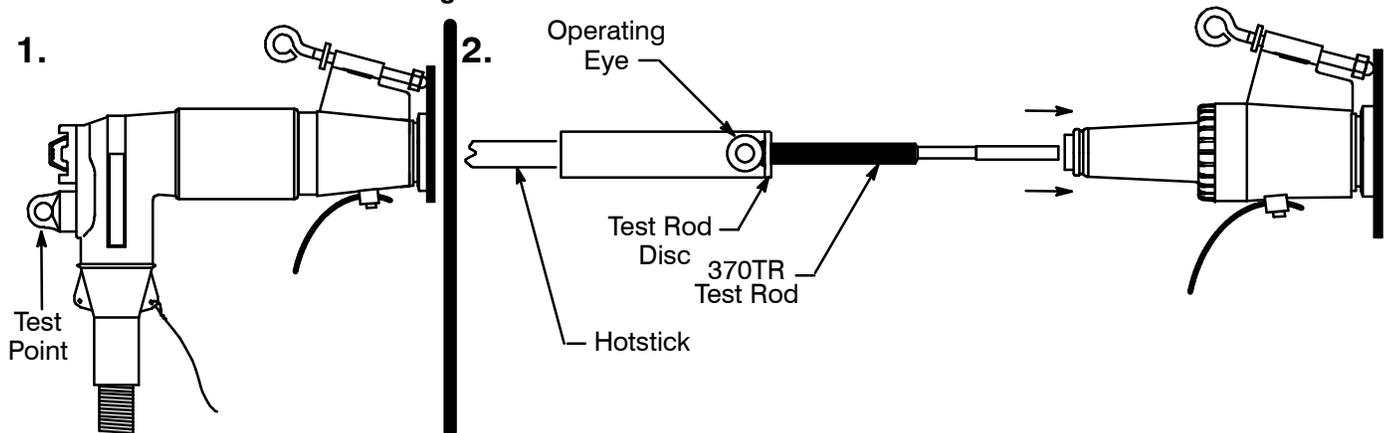
STEP 8B

Ensure that the system is de-energized with either of the following procedures.

1. Check the capacitive test point on the loadbreak elbow for voltage, with an appropriate voltage detection device.
CAUTION: 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 requirements; NO INDICATION WILL BE OBTAINED.
2. Remove existing elbow or insulated cap from the bushing with a hotstick following the applicable loadbreak operating instructions (375/376LR). Firmly tighten a hotstick to the 370TR test rod operating eye. Insert the test rod into the bushing. Using a meter capable of direct reading the system voltage, check the test rod disc for voltage. Remove test rod.

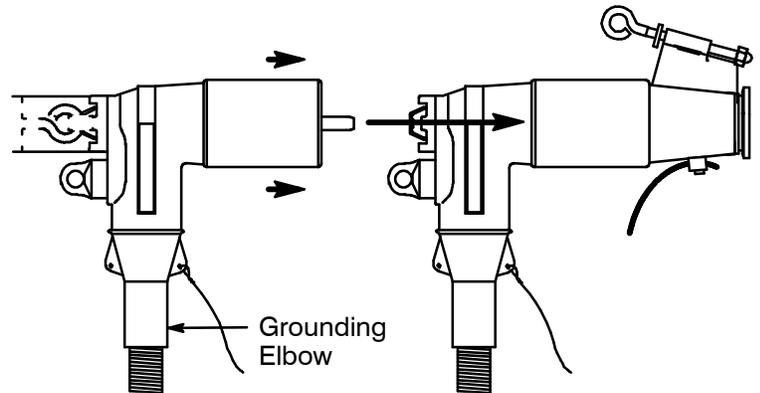
IMPORTANT: If voltage is indicated by either one of the two preceding procedures, do not proceed without de-energizing the system.

DANGER: The hotstick eye and disc of the test rod are not insulated; be careful to keep them clear from ground until tested "de-energized".



STEP 9

Install grounding elbow into the second plug of the feed-thru, following the grounding elbow operating Instructions (IS-160/370GLR, steps B thru D).



STEP 10

When it is desired to reconnect the elbow to the apparatus bushing, first make certain no faults exist on the system. To return the loadbreak elbow to the apparatus bushing and to remove the grounding elbow, reverse the operational sequence, following the applicable loadbreak-loadmake operating instructions.

VOLTAGE TEST

ELASTIMOLD connectors equipped with an integral capacitance test point 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. When removing 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. 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 silicone grease and replace it on the test point.
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