

Installation Instructions

3702A1

Loadbreak Feed-Thru Insert

CONTENTS: Loadbreak feed-thru insert, Stainless steel plate, Stainless steel hook bolts, Stainless steel wing nuts, Lubricant, Installation Instructions.

The 3702A1 is designed to provide the apparatus interface and loop feed-thru for Elastimold 35kV class (21.1kV phase-to-ground) loadbreak connectors. The bushings provide a vent ring for improved switching performance. This product is identified by a white button installed into one grounding eye.

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.

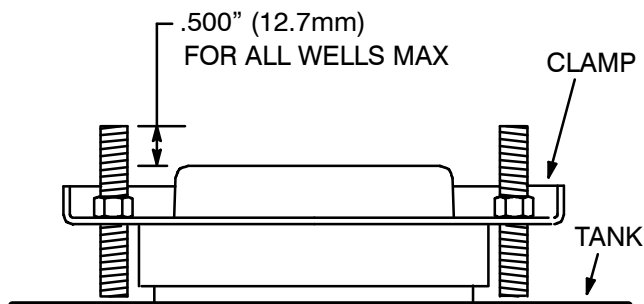
If this product is supplied with a protective shipping cover(s), remove this shipping cover(s) and replace with the appropriate HV insulated cap(s) or connector(s) before submerging or energizing the circuit.

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.

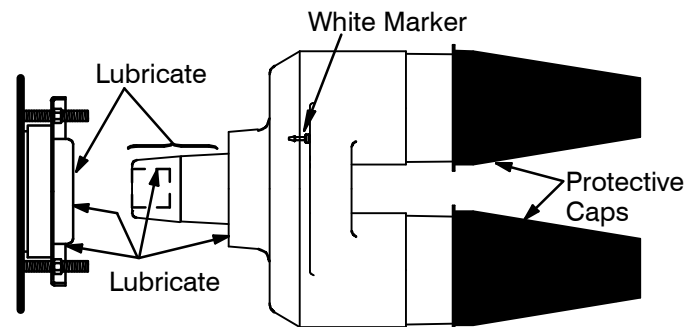
STEP 1

When installing a 3702A1 feed-thru insert in a clampable apparatus bushing well, check the height of the mounting bolts. Hardware which protrudes more than 1/2" (12mm) above the top of the apparatus bushing well will prevent the feed-thru insert from being assembled. If this condition exists, consult with apparatus manufacturer on proper method to shorten bolts.



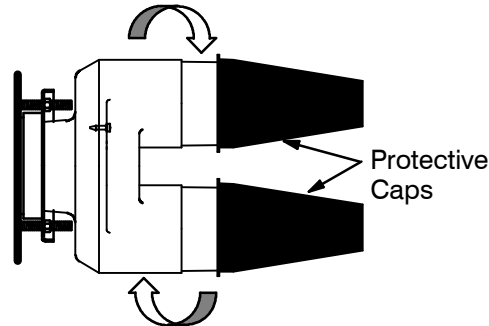
STEP 2

Inspect the apparatus bushing well to ensure it is dry and free from all contaminants. Lubricate the bushing well and outer well surface and the bushing well interface and cuff area of the feed-thru insert with the supplied lubricant or ELASTIMOLD approved lubricant. **DO NOT SUBSTITUTE.** Other lubricants may be harmful to this product or its mating parts.



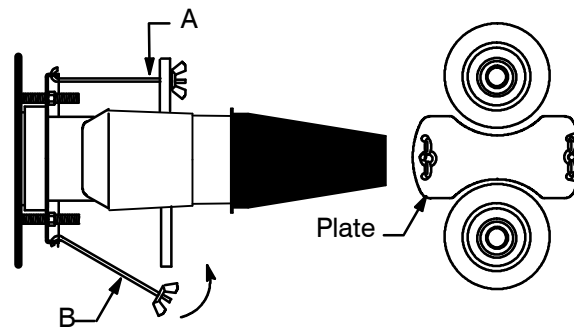
STEP 3

Place the lubricated portion of the feet-thru insert in the apparatus bushing well and rotate feed-thru insert clockwise until fully seated. DO NOT FORCE. Over tightening may damage threads of bushing well. The feed-thru insert has been designed with a special 180° adjustment feature. Feed-thru insert may now be rotated counter-clockwise up to a half turn to obtain desired alignment. A definite stop will be felt at the end of the 180° adjustment range.



STEP 4

FEED-THRU INSERT MUST BE ASSEMBLED WITH HOLD-DOWN BAIL. Assemble "A" hook bolt in available upper bushing well tab. Assemble plate over threaded end of bolt with detents upward towards operator. Use hole in plate which allows the most vertical position of hook bolt. Assemble wing nut. Assemble "B" hook bolt and wing nut. Engage hook of hook bolt into lower bushing well tab. Swing hook bolt up into slot of plate, using slot which allows the most vertical position of hook bolt. Tighten wing nuts securely by hand.

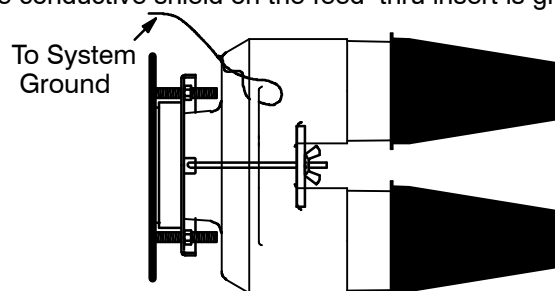


STEP 5

Push a length of copper wire, No. 14 AWG (2.5mm@) or equivalent, through one of the grounding holes on the feed-thru insert. Make a small loop and twist tightly, taking care not to damage the conductive shield. Connect free end of the wire to the system ground using a suitable connector.

The electrostatic grounding wire should be installed in such a manner so as not to contact the bushing interface or adjacent bushing interfaces or interfere with the placement of accessories on nearby parking stands.

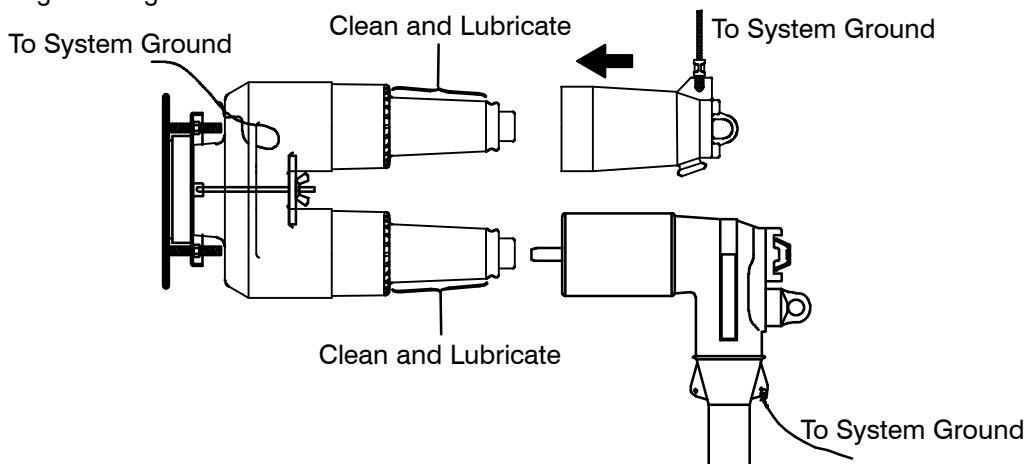
This step provides assurance that the conductive shield on the feed-thru insert is grounded.



STEP 6

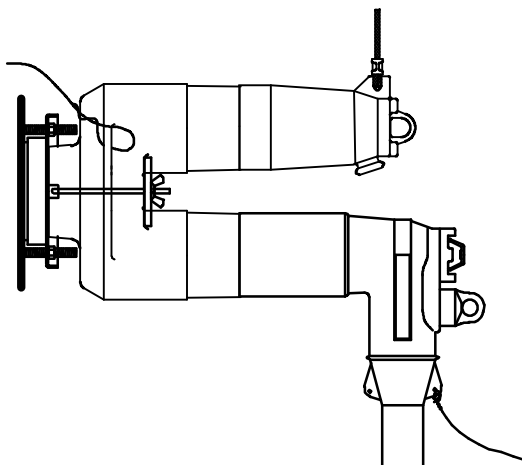
Remove protective shipping caps from feed-thru insert. Thoroughly wipe the bushing interfaces clean of any contaminants and lubricate with the supplied lubricant or ELASTIMOLD approved lubricant. **DO NOT SUBSTITUTE.** Other lubricants may be harmful to this product or its mating parts. *Install the mating products to the feed-thru insert following the instructions supplied with the mating products.*

If feed-thru insert is not to be immediately mated with elbow connector(s) and/or insulated cap(s) and/or grounding elbow(s), do not remove shipping caps. Do not energize or submerge apparatus with the shipping caps on the feed-thru insert. This is a protective cap only which is not insulated or water tight and only intended to keep the bushing plug surfaces clean during handling and installation.



STEP 7 SEATING INDICATION

Complete assembly of an insulated cap or elbow is indicated by no portion of the yellow band being visible when viewed from the side.



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