
15 / 25 kV 200A Rotatable Feed-Thru Insert INSTALLATION & OPERATING INSTRUCTIONS

DESCRIPTION

The CHARDON Rotatable Feed-Thru Insert is designed for assembly to a high-voltage bushing well and is used as a mating loadbreak connector for a loadbreak elbow or arrester. The torque limiting ratchet feature allows the lineman to rotate the feed-thru insert 360° to locate it in the best position for the specific application. The bail assembly supplied with the kit can be used to prevent the insert from moving.

The Feed-Thru insert is designed to operate with a bushing well meeting the interface requirements of Fig. 3 of the IEEE Standards for Separable Insulated Connector Systems, ANSI / IEEE 386. The elbow interface of the Feed-Thru Insert meets the requirements of ANSI/IEEE 386 as defined below:

- 15kV 200A Class (8.3kV and 8.3/14.4kV)
- 25kV 200A Class (15.2kV and 15.2/26.3kV)

BUSHING INSERT KIT CONTENTS

- 1 – Rotatable Feed-Thru Insert, with Shipping Caps
- 1 – Fixed plate
- 2 – Silicone Lubricant - 5 grams
- 2 – Paper Towel
- 2 – J-bolt bail hooks
- 2 – Wing nuts
- 1 – Installation Instructions



CAUTION All associated apparatus must be de-energized during installation and/or maintenance.



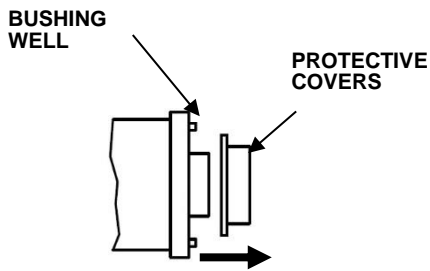
DANGER Do not touch or move energized product by hand. Failure to follow this instruction may result in serious or fatal injury, as well as damage to the product.

SAFETY INFORMATION

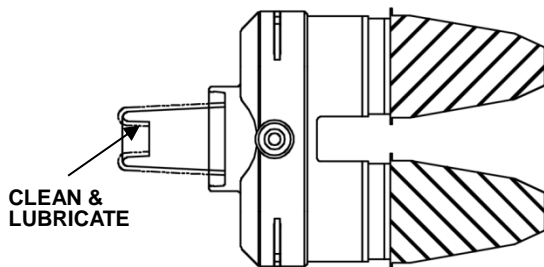
The instructions in this manual are not intended as a substitute for proper training or adequate experience in the safe operation of the equipment described. Only competent technicians, who are familiar with this equipment should install, operate and service it.

INSTALLATION PROCEDURE

STEP 1



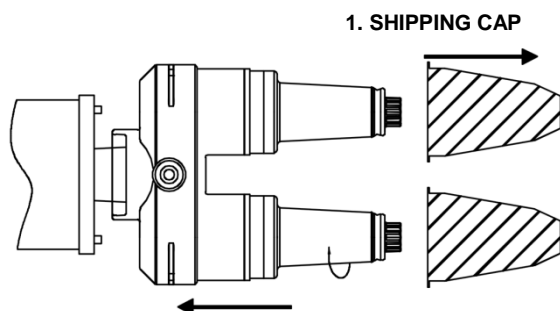
- Remove the protective cover from the high-voltage bushing well.
- Clean bushing well and apply a thin uniform coating of lubricant provided to the Feed-Thru Insert interface as shown.



- Clean mating interface of Feed-Thru Insert and apply a thin, uniform coating of lubricant.

NOTE: Do not substitute other lubricants for those provided.

STEP 2

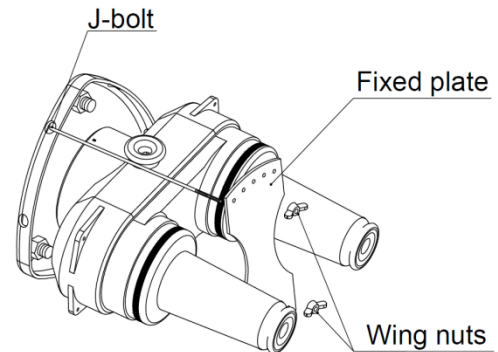


2. Feed-Thru & tighten in a clockwise

- Remove the shipping cap from Feed-Thru Insert.
- Place base of Rotatable Feed-Thru Insert into lubricated bushing well. Turn Rotatable Feed-Thru Insert clockwise onto bushing

well stud. An audible “clicking” sound indicates the Rotatable Feed-Thru Insert is fully seated. Continue clockwise rotation to position the Rotatable Feed-Thru Insert as desired.

STEP 3

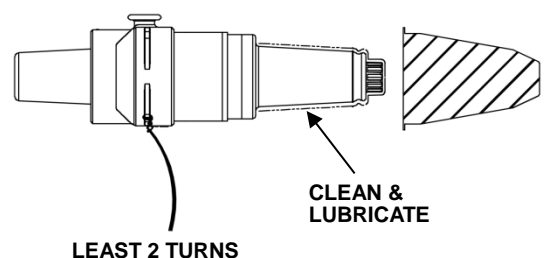


- Assemble the fixed plate by inserting the threaded portion of the J-bolt bail hooks through the center set of holes of the stainless steel fixed plate and attach the wing nuts to hold them in place. Tighten the wing nuts until snug.
- Replace the shipping cap after tightening if the mating product is not to be assembled immediately. Do not energize the Feed-Thru Insert with shipping cap installed.

STEP 4

- Attach #14 AWG copper ground wire to the Rotatable Feed-Thru Insert grounding tab.
- Connect ground wire to system ground.

STEP 5



LEAST 2 TURNS

- Remove the shipping cap from the Rotatable Feed-Thru Insert and clean the operating interface.

- Uniformly apply one tube of lubricant provided to the Rotatable Feed-Thru bushing interface. Use only the lubricant provided with the Rotatable Feed-Thru Insert

WARNING:



ALL ASSOCIATED APPARATUS MUST BE DE-ENERGIZED BEFORE PREPARATION OR REPREPARATION PROCEDURES.

WARNING:



THE SHIPPING CAP IS NOT SUITABLE AS AN INSULATING CAP FOR ENERGIZED USE.

LOADBREAK OPERATION

- Securely fasten a suitable live-line tool to the pulling eye of the mating loadbreak elbow.
- Without exerting any pulling force, slightly rotate the elbow clockwise to break surface friction between the elbow and bushing.
- Withdraw the elbow from the bushing with a fast, firm, straight motion, being careful not to place the connector near a ground plane.
- Place the elbow on an appropriate accessory device, following the operating instructions for that accessory.
- Place an insulated protective cap with drain wire attached to system ground on any exposed energized bushing using a suitable live-line tool.

LOADMAKE OPERATION

- Area must be clear of obstructions or contaminants that would interfere with the operation of the loadbreak elbow.
- Securely fasten a suitable live-line tool to the pulling eye.
- Place the loadbreak elbow over the bushing, inserting the white arc follower of the probe into the bushing approximately 2 1/2" until a slight resistance is felt.
- Immediately thrust the elbow onto the bushing with a fast, firm, straight motion, with sufficient force to latch the elbow to the bushing.
- Push again on the elbow with the live-line tool, and then pull gently to make sure that it is secure.

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