

## Installation Instructions

### Hubbell Loadbreak Connector 15kV & 25kV 200 Amp Bushing Insert

#### DESCRIPTION

Hubbell Bushing Inserts are designed for assembly to a universal bushing well and are used as a mating loadbreak connector for a loadbreak elbow. Hubbell Bushing Inserts meet the requirements of IEEE Standard 386 – latest revision.

- 15kv class: 200A 8.3/14.4kV
- 25kvclass: 200A 15.2/26.3kV

#### INSTALLATION TOOLS

- 5/16 Hex Wrench
- Cleaning solvent
- Hand Tools

#### CONTENT OF PACKAGE

- (1) Bushing Insert
- (1) Shipping Cap
- (1) Lubricant
- (1) Instruction Sheet



#### NOTES

- Check contents of package to ensure that it is complete and components are NOT damaged
- 15kV Bushing Insert (215BI) used as model for instruction sheet figures

**Important:** Read these instructions thoroughly before operating the system. Be sure that the connectors are rated for the intended energized use. (See Hubbell catalogs (C1) & (C2) for selecting the correct mating product.) Visually inspect parts for damage before using.

### CAUTION

The equipment covered by these instructions should be installed, operated and serviced only by competent personnel familiar with safety practices. This instruction is written for such personnel and is not intended as a substitute for adequate training and experience in safe procedures for this type of equipment.

### DANGER

All associated apparatus must be de-energized before performing any installation. 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.

### DANGER

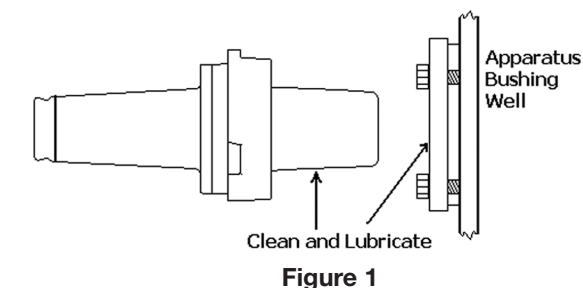
Remove protective shipping cap and replace with an approved insulating cap or connector prior to the insert being submersed or the circuit energized. The protective shipping cap is intended to keep the interface clean during shipping and handling and should never be used on energized equipment.

These instructions do not purport to cover all details or variations in equipment nor to provide for every possible contingency to be met in connection with installation, operation or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's purposes, the matter should be referred to Hubbell Power Systems, Inc.

## INSTALLATION

### Step 1 - Clean & Lubricate

Remove the protective caps from the apparatus bushing well and the bushing insert. Clean and inspect the bushing well to ensure it is free of contaminants. Lubricate the bushing well and mating interface of bushing insert with supplied silicone lubricant packet or Hubbell SL150 silicone tube. DO NOT SUBSTITUTE. Other lubricants may be harmful. See Figure 1.

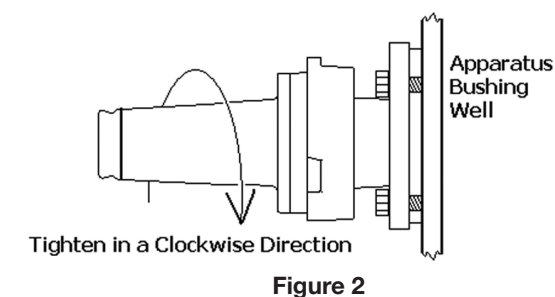


### Step 2 – Install Bushing Insert

Position the threaded end of the bushing insert in the apparatus bushing well and hand tighten in a clockwise direction until it bottoms achieving a final torque of approximately 15 ft-lbs.

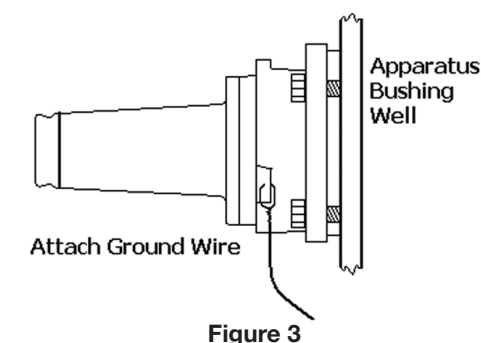
#### Alternate Assembly Method:

Insert a 5/16" hex wrench and mate with hex broach. Rotate clockwise until torque requirement of bushing insert is achieved. See Figure 2



### Step 3 – Ground Bushing Insert

Attach a #14 AWG copper wire (or equivalent) to one of the ground tabs on the body of the bushing insert. Twist the wire at least two turns at the ground eye, squeeze the loop to secure, and cut off excess wire. Attach the free end of the electrostatic grounding wire to the system ground. See Figure 3.



### Step 4 – Cover Bushing Insert

Thoroughly clean the bushing interface and lubricate with supplied lubricant. Install the mating products of the bushing insert following the instructions supplied with mating products. See Figure 4.

**NOTE 1:** If the bushing insert is not to be immediately mated with a mating product, replace the shipping cap to keep the bushing interface free of contamination.

**NOTE 2:** DO NOT energize or submerge the apparatus with the shipping cap on the bushing insert.

