

# Assembly-Free XJG

## Installation & Maintenance Information

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE

### APPLICATION

XJG Expansion Joints are used with rigid metal conduit, IMC and with EMT conduit (when ordered with - EMT suffix), to couple together (2) two sections of conduit subject to longitudinal movement. XJG expansion joints are installed:

- in long conduit runs to permit linear movement caused by thermal expansion and contraction.
- in long conduit runs to prevent conduit from buckling and ensuing circuit failures.
- indoors or outdoors where conduit expansion occurs and where there is a wide temperature range.

These expansion joints are UL Listed (UL Std. 514B) and CSA Certified (CSA Standard 22.2-18) as an effective grounding means (i.e., the path to ground is permanent and continuous), for telescoping sections of conduit. They are also weatherproof and approved for use indoors or outdoors without an external bonding jumper. The internal grounding method provides excellent electrical continuity between the telescoping conduit, body and fixed conduit. XJG expansion joints meet the requirements of the National Electrical Code and Canadian Electric Code, providing an electrically continuous raceway; with no additional bonding means required. Multiple XJG assemblies are recommended in long conduit runs subject to extreme temperature fluctuations.

XJG expansion joints permit conduit to telescope 2" in either direction for a total conduit movement of 4" (XJG4 Series); or 4" in either direction for a total conduit movement of 8" (XJG8 Series).

### INSTALLATION INSTRUCTIONS FOR RIGID AND IMC CONDUIT

**NOTE - DO NOT DISASSEMBLE PRODUCT.**

Use instructions below for original installation of product.  
If product is disassembled, or to reuse product, follow disassembly and reinstallation instructions on page 2.

Insert conduit into unthreaded end of XJG (indicated by instruction sticker) and securely tighten conduit into fully engaged internal bushing (see figure 1).

**Note:** Bushing must mate with reducer and locking feature must be fully engaged prior to tightening conduit. See Figures 1 and 2. Rotating reducer and body as a unit may be necessary to achieve reengagement. When starting the thread by hand, sustain pressure on the reducer towards the inserted conduit. This will maintain the locking feature connection between the bushing and the reducer.

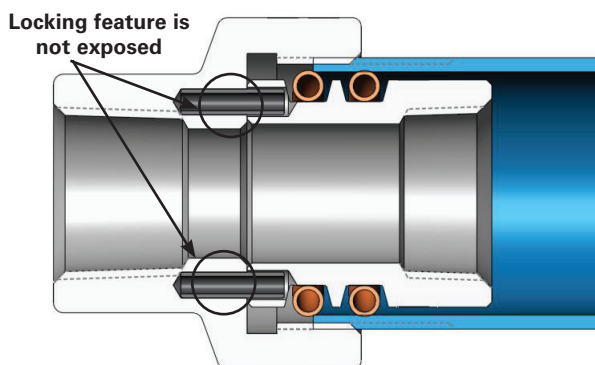
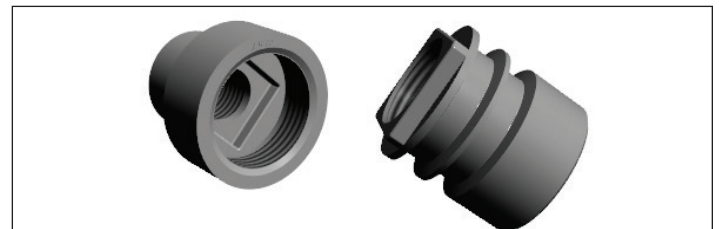
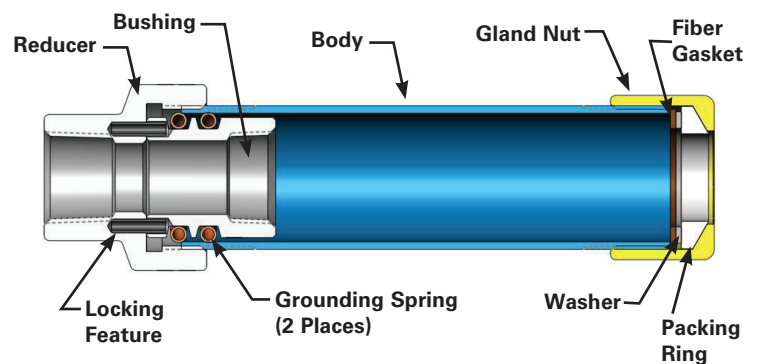


FIGURE 1 - FULLY ENGAGED

2. Pull body away from the conduit so that the locking feature becomes disengaged. Once disengaged, slide the body over the grounding springs with a clockwise motion (viewing XJG from the threaded reducer end) until the bushing is centered in the body. This will allow for telescoping movement in either direction, refer to picture on next page.
3. With the locking feature disengaged ensure the reducer is tight to the body. Holding the body stationary, tighten the reducer until the body bottoms out inside the reducer.



The square locking feature as shown here can be found on trade sizes 1/2" - 1". The remaining sizes will have the pin type as shown in subsequent figures.

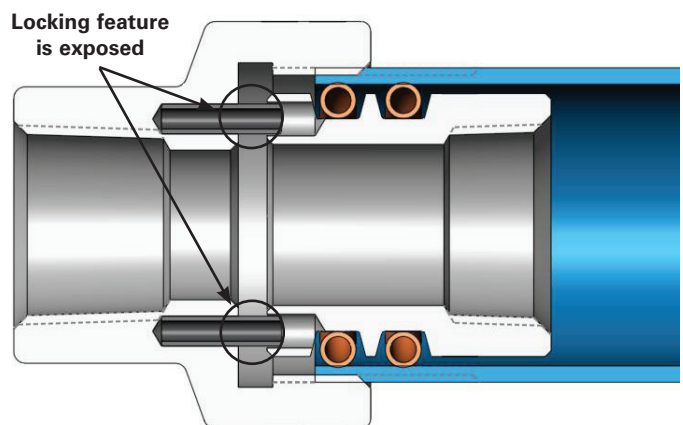
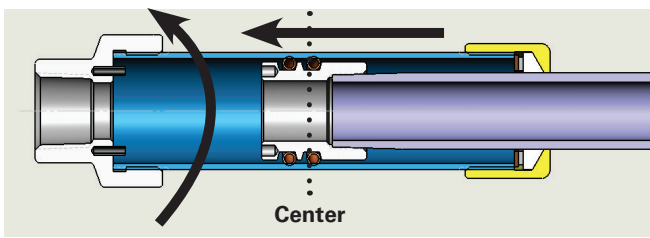


FIGURE 2 - DISENGAGED



**Note:** Tension between bushing and body is normal and necessary for proper grounding.

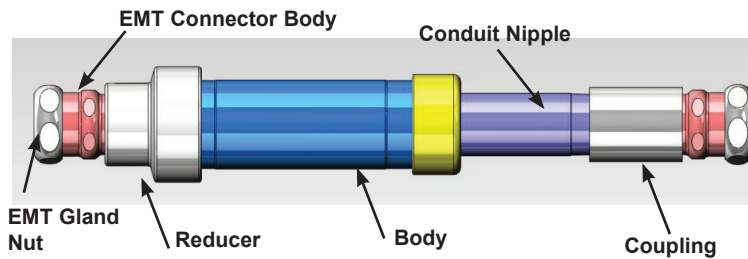
- Securely thread and tighten gland nut to compress packing ring onto conduit.
- Securely tighten second section of conduit into reducer.
- Ensure all connections are wrench-tight. Installation is complete. No external bonding jumper is required.

## INSTALLATION INSTRUCTIONS FOR EMT CONDUIT

### NOTE - DO NOT DISASSEMBLE

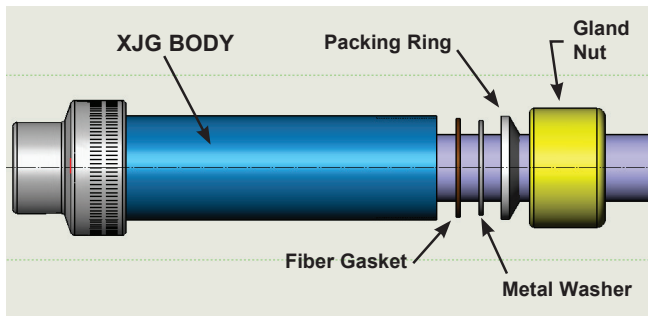
Use instructions below for original installation of product. If product is disassembled, or to reuse product, follow disassembly and reinstallation instructions on page 2.

- Loosen the EMT gland nut to relieve pressure on the conduit compression ring.
- Slide EMT conduit into fitting
- Tighten down the EMT gland nut to form a Raintight seal around the conduit. Tighten in accordance with NEC or other local codes and standards
- Ensure gland nut on body is securely threaded and tighten so as to compress packing ring onto conduit
- Ensure all connections are wrench-tight. Installation is complete. No external bonding jumper is required.

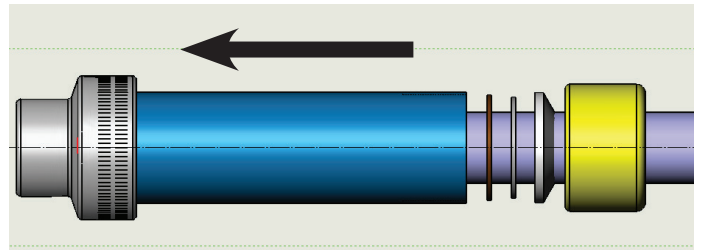


## DISASSEMBLY INSTRUCTIONS

- Remove conduit by unthreading conduit from reducer.
- Unthread and remove the gland nut, packing ring, fiber gasket and metal washer from XJG body.



- Remove XJG body by pulling away from conduit with bushing still threaded to conduit.



- Unthread bushing and remove metal washer, fiber gasket, packing ring, and gland nut from conduit. Removal disassembly is complete.

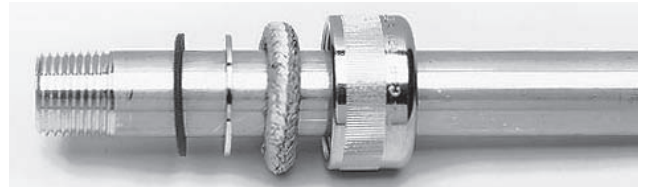


### WARNING

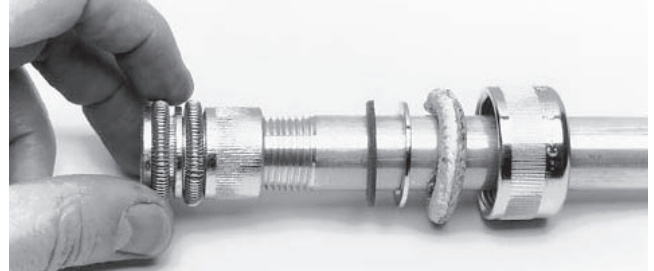
**TO AVOID LOSS OF GROUND CONTINUITY,  
DO NOT REMOVE OUTER GROUND SPRINGS FROM BUSHING**

## REINSTALLATION INSTRUCTIONS

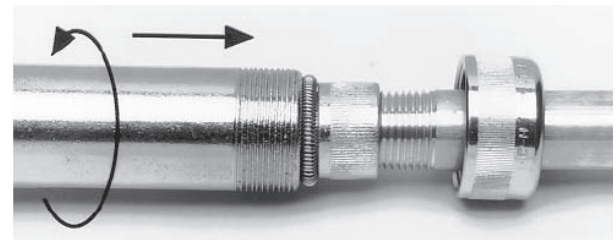
- Slide gland nut with packing ring, metal washer and fiber gasket over the end of conduit.



- Thread the bushing with outer ground springs onto the conduit end and tighten until wrench-tight.



- Slide body with reducer over the ground springs with a clockwise motion.



- Position the end of conduit with bushing in the center of the XJG body. This will allow for movement in either direction.
- Thread fixed conduit into reducer and tighten until wrench-tight.
- Thread gland nut with packing ring, fiber gasket and metal washer onto the body and tighten securely to compress packing ring. Reassembly is complete.

All statements, technical information and recommendations contained herein are based on information and tests we believe to be reliable. The accuracy or completeness thereof are not guaranteed. In accordance with Crouse-Hinds "Terms and Conditions of Sale", and since conditions of use are outside our control, the purchaser should determine the suitability of the product for his intended use and assumes all risk and liability whatsoever in connection therewith.