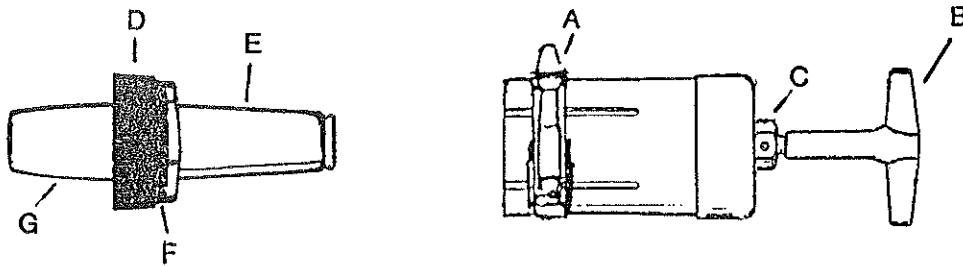


Instructions for BUSHING INSERT TOOL

Cat. No. BIT/TK120X-Q

This tool provides a means for securely clamping a 15kV, 25kV, or 35kV class loadbreak bushing insert to aid in its installation into and removal from the bushing well. For installation purposes, there is a built-in pre-set TorKey wrench that provides consistency of tightness between the bushing insert and bushing well.

MAKE SURE THE EQUIPMENT CONTAINING THE BUSHING INSERT AND/OR THE BUSHING WELL IS DE-ENERGIZED BEFORE PROCEEDING.



Bushing Insert Installation

1. Make sure shoulder (F) of Bushing Insert is clean and dry.
2. Loosen lever (A) on BIT to allow bushing insert (D) to fit into center of tool.

Note: You may want to apply silicone grease to the loadbreak elbow interface (E) of bushing insert before placing the bushing insert into the tool. Follow insert manufacturer's instructions on proper lubrication of the bushing interfaces.

3. Push bushing insert (D) into the tool centering probe into the end of the bushing insert. On 8.3/15kV class insert, the lower edge of the tool will bottom against the shoulder (F) of the bushing insert. On 15.2/25kV and 21.1/35kV class inserts, the insert should be pushed in until the nose of the insert bottoms against the inside cap surface of the tool.

4. Tighten lever (A) on Quick Connect Clamp until tool securely clamps bushing insert. If tool slips on bushing insert while tightening, further tightening of clamp is required. To do this, advance take-up nut opposite lever clockwise as required.

5. Lubricate well interface (G) of the bushing insert and bushing well I.D. per bushing insert manufacturer's instructions.



6. Install bushing insert into bushing well, start insert on 3/8 - 16 well stud and continue rotating using the TorKey T handle (B) until the TorKey makes a snapping noise. **Due to tolerance differences between the several makes of bushing inserts and bushing wells, the TorKey may snap several times during the final stages of tightening.** This is caused by the interference fit between the elastomeric bushing insert and epoxy bushing well. **When the TorKey has "snapped several times without any further rotation of the bushing insert, the installation of the insert is complete.**

7. Loosen lever (A) on Quick Connect Clamp to release bushing insert (D).

Bushing Insert Removal

1. **Make sure bushing insert is de-energized before proceeding!**
2. Follow steps 1 through 4 of "Insert Installation" above for placing tool onto the bushing insert.
3. Place an open end or adjustable wrench on the 1-1/16" hex nut (C) at the base of the TorKey. Rotate the tool counter clockwise until the bushing insert is fully disengaged from the bushing well.

Calibration

The TorKey on this Bushing Insert Tool is pre-set at 120 in. lbs. and is designed to provide years of trouble free service.

The Bushing Insert typically requires 100-120 in. lbs. of torque to make an adequate connection with the bushing well stud.

It is recommended that the tool be checked for calibration at least once per year. This may be done by the customer or by Speed Systems.

If the value drops below 105 in. lbs. replacement is recommended. (Replacement TorKey Cat. No. TK120S) For further assistance, please contact either Speed Systems or your sales representative.



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