

# Installation Instructions for Helical Pole Support

These instructions are intended to illustrate the use of the Helical Pole Support. Anchor installing tools covered in this instruction sheet should be used by competent personnel familiar with and following good work and safety practices. Should additional information and details be desired, or if specific situations arise which are not covered adequately for the user's purpose the specifics should be referred to Hubbell Power Systems (HPS). In some cases, HPS may make specific recommendations concerning installation torque and installed depth limits for specific applications.

- Slide Kelly bar into the socket on the Kelly Bar Adapter. Holes in the two opposite walls of the socket allow the Kelly bar shaft to be pinned in place with the bent-arm pin provided. Coil locks are provided and must be used to keep the bent arm pin from slipping out. These pins should be checked periodically and replaced with original equipment as necessary to avoid failure.
- When mounting the Locking Dog Assembly directly in a Chance Kelly Bar Adapter (**both having clearance holes**) use the 1/2-inch diameter grade 5 bolts, or the 5/8-inch diameter grade 2 bolts, and lockwashers provided with the Locking Dog Assembly or those provided with the Kelly Bar Adapter. When mounting the Locking Dog Assembly to a Chance Kelly Bar Adapter (**having tapped holes**), the 1/2-inch diameter grade 5, or the 5/8-inch diameter grade 2 bolts provided with the Kelly Bar Adapter must be used. Those provided with the Locking Dog Assembly will not work.



- With the release rings in the outside position, insert the Drive End Assembly into the Locking Dog Assembly. Rotate rings to the inside position to capture drive end in the Locking Dog Assembly.



- Assemble the lead section, extension, and Helical Pole Support together. Place the anchor assembly into the center of the hole.



- Insert the Drive End Assembly into the Helical Pole Support.

**⚠ WARNING**

Failure to monitor the condition of all parts and take corrective action as necessary may lead to failure during use resulting in personal injury or property damage.

Check all output string bolts along the drive train periodically to ensure they remain tight. Loose or damaged bolts may fail at, or below the anchor's torque rating or contribute to damage elsewhere in the output string. Check all parts periodically for wear or damage and replace as necessary. Replacement bolts must be the same grade and length as the originals.

RECOMMENDED TIGHTENING TORQUES	
BOLT	DRY TORQUE (ft.-lb.)
1/2" - Gr. 5	75
5/8" - Gr. 2	95
1/2" - Set Screw	15 to 20

- Before installing the Drive End Assembly in the Locking Dog Assembly, open the dogs by pulling outward and twisting in a counterclockwise direction until the release rings rest on the outside stops.

*NOTE: The Locking Dog Assembly has three positions. The inside ring position allows the locking dogs to hold both the drive end assembly and the anchor rod. The middle position releases the anchor rod but holds the wrench drive end assembly. The outside position releases the Drive-End Assembly*

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7. Begin driving the anchor assembly into the ground. Maintain down pressure during installation to ensure tool engagement.



**⚠ CAUTION**

**Dangerous stored energy can cause severe injury or death. Relieve installation torque from output string before removing the wrench.**

8. If additional anchor length is required, stop installing when the Helical Pole Support coupling is at grade. Remove Helical Pole Support and add an

extension. Then bolt Helical Pole Support back to the extension and continue driving. Repeat this step until desired depth is reached..

9. Torque can be monitored during installation.

10. Continue installing until Helical Pole Support reaches the bottom of the hole. Remove the Drive End Assembly and set the pole according standard practices.



**These instructions do not claim to cover all details or variations in equipment, nor to provide for all possible conditions to be met with concerning installation, operation, or maintenance of this equipment. If further information is desired or if particular problems are encountered which are not sufficiently covered in this guide, contact Hubbell Power Systems.**