

INSTRUCTIONS FOR

CHANCE® ANCHOR DRIVE TOOLS FOR PISA® LOCKING DOG ASSEMBLY

GENERAL

! WARNING

Read and understand this instruction sheet completely before installing an anchor. These instructions are intended to illustrate the use of anchor drive tools. Tools covered in this instruction sheet must 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 herein, the user should refer to Chance directly. In some cases, Chance may make specific recommendations concerning installation torque and installation depth for a particular application.

Check the Locking Dog Assembly and drive tool for wear. If either tool is worn, replace it. A minimum of three inches of square engagement is required between the Locking Dog Assembly and the drive tool. A minimum of three inches of square engagement is required between the drive tool and the anchor shaft. Failure to maintain this minimum engagement will cause the tooling and the bent arm pin to wear out prematurely.

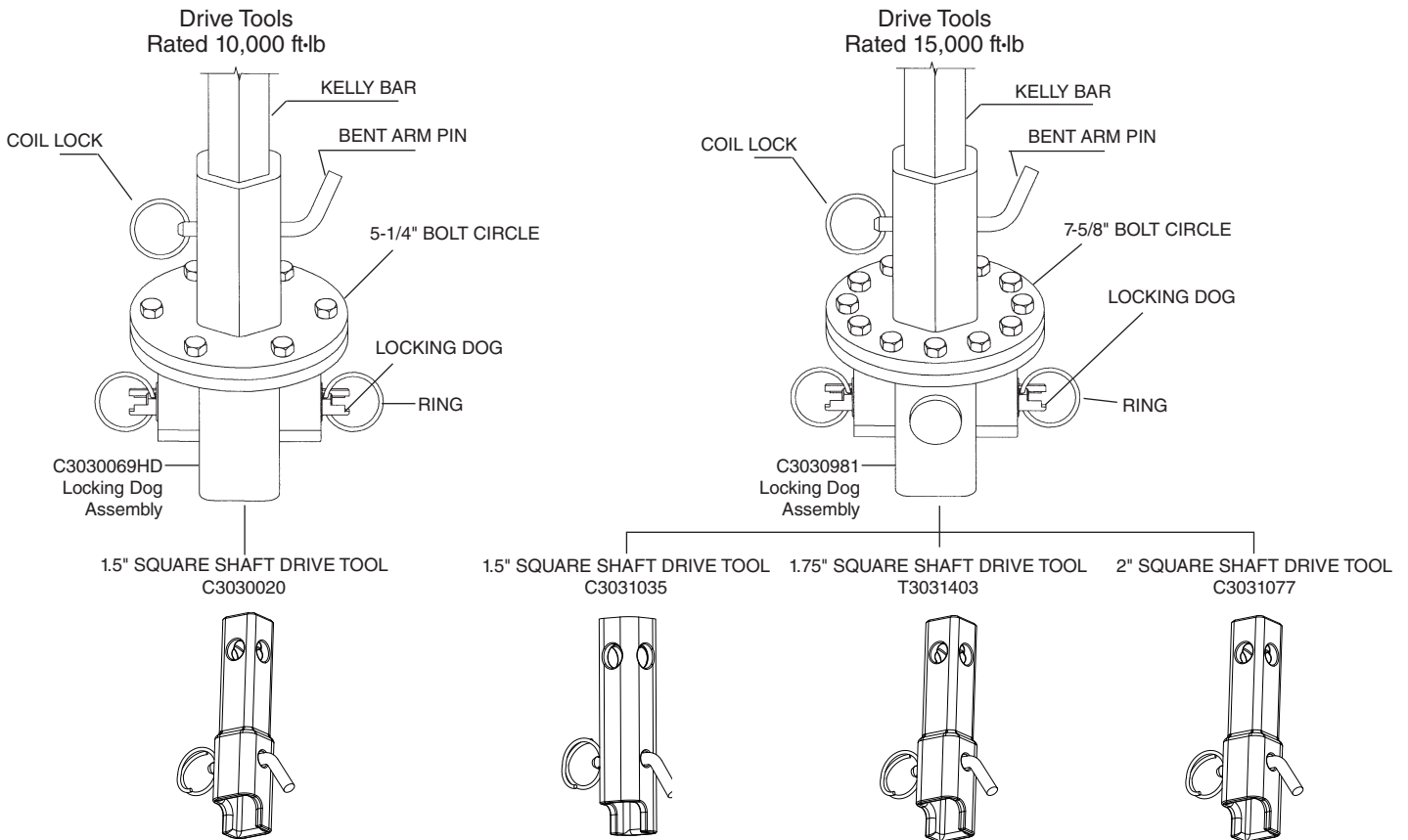
! WARNING

Inadequate maintenance, incorrect tooling, or improper use of tools and hardware may lead to unexpected fracture.

Can cause property damage, severe injury, or death.

Frequently inspect tools and hardware for damage and for correct quantity, size, type, and tightness of fasteners. Replace fasteners as necessary with the same grade and size as the originals.

1. Attach the Kelly Bar Adapter to the Kelly bar if it is not already attached (see the instructions included with the Kelly Bar Adapter). Attach the Locking Dog Assembly to the Kelly Bar Adapter if it is not already attached (see the instructions included with the Locking Dog Assembly).



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. The presence of energized overhead lines in particular may necessitate alternate methods to prevent accidental contact with the lines. If further information is desired or if particular problems are encountered which are not sufficiently covered in this guide, contact Hubbell Power Systems, Inc.

NOTE: Because Chance has a policy of continuous product improvement, we reserve the right to change design and specifications without notice.



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! WARNING

Heavy suspended objects may fall.
Can cause property damage, severe injury, or death.
Stay out from under the anchor and tool string at all times. Keep feet clear of suspended anchors or tools.

2. To install the drive tool into the Locking Dog Assembly, open the dogs by pulling outward and twisting in a counterclockwise direction until the rings rest on the outside position of the steps.

Insert the drive tool.

Rotate the rings of the Locking Dog Assembly to the inside position in order to capture the drive tool.

NOTE: The Locking Dog Assembly rings have three positions. The inside ring position holds the drive tool in the

Locking Dog Assembly. The middle position is not needed for this tool. The outside position releases the drive tool. See the Locking Dog Assembly instructions for illustrations of these three positions.

The drive tool is now properly seated in the Locking Dog Assembly.

3. Insert the end of the anchor shaft into the drive tool. Pin the anchor shaft in place with the bent arm pin provided with the drive tool.

Install the coil lock through the hole in the end of the bent arm pin. The coil lock must be used to keep the bent arm pin in place. Other retention methods, including bolt and nut, and pins with "klik" pins, have been tested and shown to be inadequate. The bent arm pin and coil lock must be checked periodically and replaced with original equipment as necessary to ensure proper and safe operation.

ANCHOR INSTALLATION INSTRUCTIONS

! WARNING

Anchor installation can puncture underground utility service.
Can cause property damage, severe injury, or death.
Locate and avoid all underground utility services when installing an anchor.

Begin anchor installation in a near vertical position. After the anchor has entered the soil, adjust the angle of the installation equipment to line up with the load.

! WARNING

Bending or overtorquing the tool string is hazardous.
Can cause property damage, severe injury, or death.
Do not allow visible bending of the tool string or torque greater than the rating of the tool or the anchor.

Use steady down pressure during installation of the anchor to ensure minimum disturbance of the soil and maximum holding power. Avoid excessive uplift. Do not exceed the tool or anchor torque rating.

! WARNING

Loose or broken parts may be thrown at high speed.
Can cause property damage, severe injury, or death.
Stay away from drive train during installation.

When the drive tool reaches ground level, stop installation. Remove the bent arm pin and coil lock. Add anchor extensions to achieve the depth required.

! WARNING

Drive train may contain stored torsional energy. Unexpected high speed backlash may occur.
Can cause severe injury or death.
Stay clear of drive train.

To remove the drive tool, pull and rotate the rings on the Locking Dog Assembly to the outside position. Before each new installation, check the tool string for loose or damaged parts. Always use tools that are the appropriate size and rating for your particular application.



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