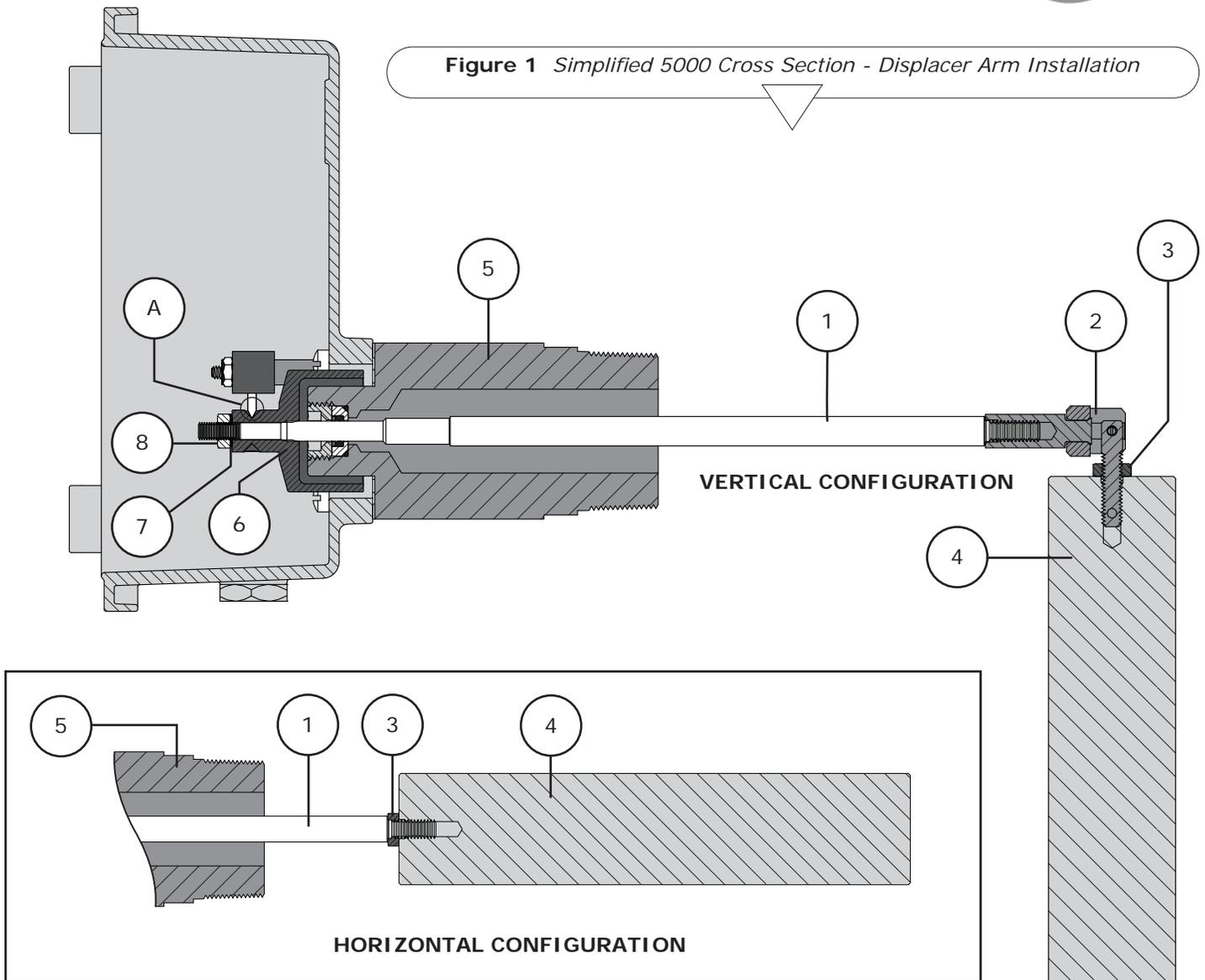


Model 5000 Level Controller

Displacer Assembly Instructions



Figure 1 Simplified 5000 Cross Section - Displacer Arm Installation



DISPLACER ARM INSTALLATION (Refer to Figures 1 & 2)

NOTE: Make sure that the fulcrum bar pin (Key A) is resting inside the trunnion head groove (Key 6). If the fulcrum bar pin is not properly inserted into the trunnion head groove, it may be difficult to install the displacer arm (Key 1). Lubrication of the displacer arm is unnecessary, the displacer arm o-ring is already properly lubricated from Factory.

- 1 Begin by inserting the 1/4" threads of the displacer arm (Key 1) through the NPT connection as shown in Figure 1. The threads of the displacer arm should protrude past the trunnion head (Key 6). It may be necessary to re-position the trunnion head periodically while inserting the displacer arm.
- 2 Install the 1/4" (star) lockwasher (Key 7) over the displacer arm and snug it up to the trunnion head.
- 3 Thread the 1/4" fine nut (Key 8) over the displacer arm and tighten to 12 ft-lb. Proceed to Page 2.



Model 5000 Level Controller

Displacer Assembly Instructions

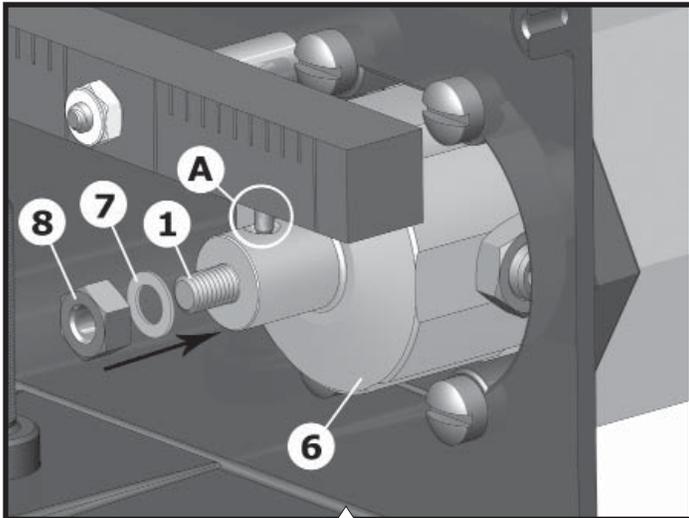


Figure 2 Fulcrum Bar Pin and Trunnion Head Detail

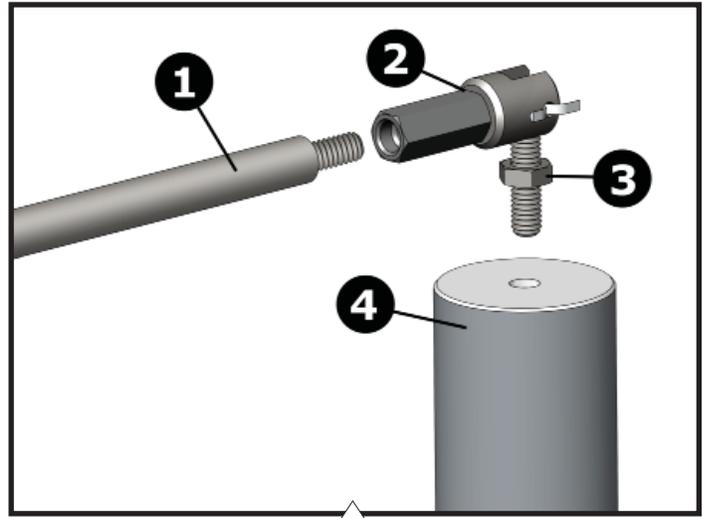


Figure 3 Vertical Displacer Assembly

FOR VERTICAL DISPLACER ARM ASSEMBLY

(Refer to Figures 1 & 3)

- 4 Thread the swivel assembly (Key 2) onto the end of the displacer arm (Key 1). Hold the displacer arm in place with a pair of pliers or vice grips and using a 1/2" wrench, completely tighten the swivel assembly to the displacer arm.
- 5 Make sure the jam nut (Key 3) is threaded completely on to the swivel bolt (Key 2). Thread the displacer (Key 4) onto the swivel bolt as far as possible. Tighten the jam nut into the displacer using a 1/2" wrench.

FOR HORIZONTAL DISPLACER ARM ASSEMBLY

(Refer to Figures 1 & 4)

- 4 Remove the jam nut (Key 3) from the swivel bolt (Key 2) and thread it onto the end of the displacer arm (Key 1) as far as it will go.

NOTE: It may be necessary to hold the displacer arm with a pair of pliers or vice grips when performing the following steps.

- 5 Thread the displacer (Key 4) onto the displacer arm (Key 1) until it makes contact with the jam nut.
- 6 Using a 1/2" wrench, tighten the jam nut back into the displacer.

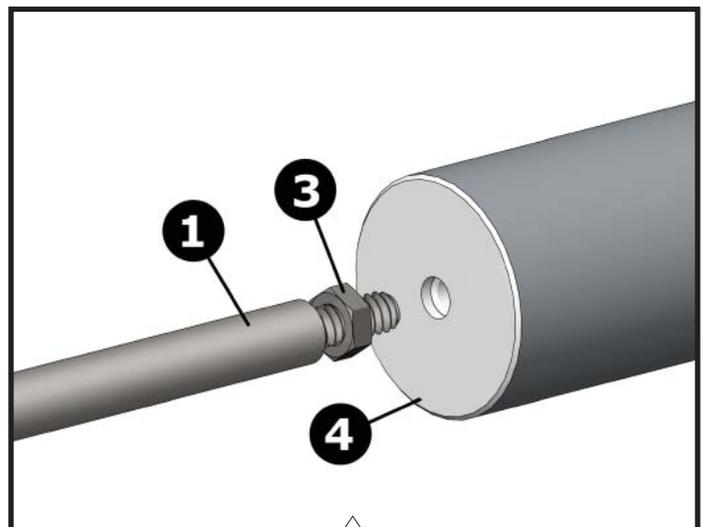


Figure 4 Horizontal Displacer Assembly