

## Mounting Options



3 Point Flex Mount



8.5 in. C-Face Tether Arm



4.5 in. C-Face Tether Arm

### Step 1: Examine Hardware

Ensure that the mating parts line up, the bolt thread pitches and lengths are appropriate, and the tools are of the correct type and size. Refer to any additional motor manufacturer's installation instructions, as there may be some critical measurements or required hardware.

### Step 3: Secure Tether Arm

Rotate the tether arm until it is at the correct orientation and is aligned with the mounting feature on the shaft housing. Use the appropriate hardware to secure the tether arm in position. Check to ensure the tether is still in its "unstressed" condition (move the encoder slightly if necessary). Tighten the shaft clamp on the encoder as shown in Fig. A.

#### **Recommended**

#### **Bolt Torques**

THS25 Clamp Bolt

#6-32 Socket Head

Cap Screw

10 to 15 lb-in. 7/64 in.

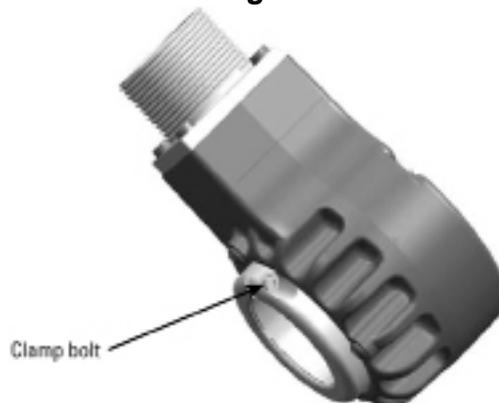
### Step 2: Shaft Insertion

Check and remove burrs on the mating shaft and measure to ensure the shaft length is correct for the encoder. The shaft should engage the encoder beyond the shaft clamp by 1/2 in. or more. Attach the tether to the encoder body and slide the assembly onto the mating shaft. Do not tighten the shaft clamp on the encoder yet.

### Step 4: Examine Runout

Using a dial indicator on the outside of the encoder body, check the runout as you rotate the shaft by hand. If it exceeds the maximum allowable 0.005 in. the encoder will need to be re-installed or adjusted otherwise the installation is complete.

**Fig. A**



## Installation Instructions for THS25 Using Block and Pin

### Step 1: Examine Hardware

Ensure that the mating parts line up, the bolt thread pitches and lengths are appropriate and the tools are of the correct type and size. Please refer to any additional motor manufacturer's installation instructions, as there may be some critical measurements or required hardware.

### Step 2: Installing the Tether Pin

Drill a hole in the casing to accept the tether pin. Follow the motor manufacturer's instructions for diameter, depth and location of the hole. Make sure it is in the proper orientation relative to the tether block placement so that the finished installation will be "clocked" correctly. Insert the tether pin to the correct depth using a press fit. The pin depth should never exceed or interfere with the motor spinning mechanisms.



Block and Pin

### Step 3: Shaft Insertion

Check and remove burrs on the mating shaft and measure to ensure the shaft length is correct for the encoder. Firmly attach the slotted tether to the encoder body and slide the assembly onto the mating shaft. Rotate the encoder body engaging the pin into the tether. Tighten the shaft clamp on the encoder as shown in Figure A.

### Step 4: Examine Runout

Using a dial indicator on the outside of the encoder body check the runout as you rotate the shaft by hand. If it exceeds the maximum allowable 0.005 in. the encoder will need to be re-installed or adjusted otherwise the installation is complete.

#### Caution

*Failure to observe the following cautions could cause property damages.*

Excessive runout will cause premature bearing failure.

L011019