

AGV Encoder Adapter Plate Installation

Installation Recommendations

- Make sure motor/driving shaft is free from burrs and other defects.
 - With flex mount flush against surface, tighten clamp or set screws first, then bolt flex mount to surface.
 - Check for best possible alignment with hollow shaft and driving shaft to reduce wobble.
 - Run-out of the driving shaft, or misalignment between the driving shaft and the encoder's hollow bore, decreases the accuracy and bearing life of the encoder and adds vibration to the system. Re-installing the encoder on the driving shaft may improve alignment.
 - The maximum recommended motor axial endplay is ± 0.030 ".
- Maximum motor TIR is 0.007".

Cautions:

Avoid damage to your Accu-Coder™

The following actions may cause damage, and void product warranty.

- Do not shock or strike the encoder or encoder shaft.
- Do not subject shaft to excessive axial or radial shaft stresses.
- Do not disassemble encoder.
- Do not use a rigid shaft coupling.

Installation Steps:

STEP 1

- If not already assembled, mount the 3-point flex-mount onto the 25T/H encoder with the three 4-40 x 5/32" button-head Allen screws provided.
- Torque the 4-40 screws to 25 to 40 oz-in. For additional security, a drop of Loctite 222 should be added to the threads of the screws.

STEP 2

- For the **motor-side** encoder, mount the adapter plate kit **176367-01** securely to the motor, then proceed to step 3.
- For the **brake-side** encoder, proceed to step 3.

STEP 3

- Loosely mount the Model 25T/H encoder flex-mount onto the adapter plate with the three 6-32 x 1/4" pan head Phillips screws provided. For additional security, a drop of Loctite 222 should be added to the threads of the screws.

STEP 4

- Slide the Model 25T/H encoder over the motor shaft.

Do Not Use Undue Force

- The encoder should be positioned so that the flex mount arms are not stretched or in compression.
- For the **brake-side** encoder adapter plate kit **176366-01**, align the four anti-rotation ears of the adapter plate into the corresponding four anti-rotation notches on the brake.

STEP 5

- Tighten the shaft clamp screw to a torque of 115 to 160 oz-in.

STEP 6

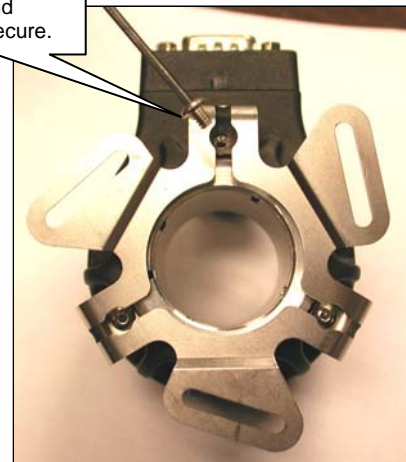
- Tighten the three 6-32 pan head Phillips screws to a torque of 50 to 60 oz-in. to secure the flex mount onto the adapter plate.

Alternate Assembly Options:

- Three encoder/connector orientations are available by rotating the encoder 120 degrees on the adapter plate before installing the 6-32 flex-mount/adapter plate screws. This will aid in the alignment of the connector on the encoder to the mating cable. See picture to right.

TB-524.doc, Rev A, 08/20/2009

Mount 3-point flex with small screws provided and Loctite to secure.



For Brake-Side Adapter Plate:

Align left flex ear with threaded hole nearest prong.

Insert screws with washers and Loctite

