

TB-528: Pivot Bracket Installation

Features

- Improved ground clearance under the encoder
- Self-lubricating oil impregnated bronze bushings for longer life
- Universal mounting for BEPC encoders
- Spring pre-load feature available as an option for better traction or upside-down operation
- Multiple connector/cable exit orientations available due to improved encoder mounting strategy
- Durable powder-coated finish
- Each kit includes the convenient Mounting Bracket #176389-01
- Each kit is supplied with a 5/32" hex "L" key for securing shaft clamps.

Suggestions

For All Options:

- Mount the pivot bracket parallel to the running surface to obtain minimum measurement error due to pivoting motion.

For Spring Pre-load Options:

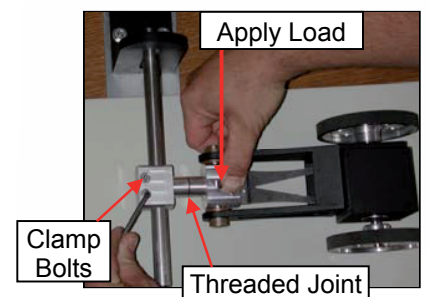
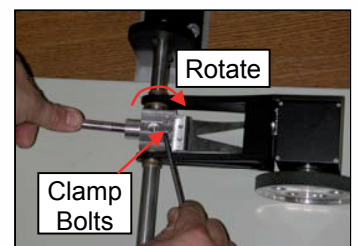
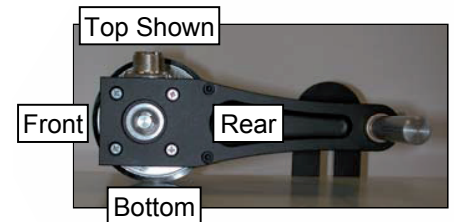
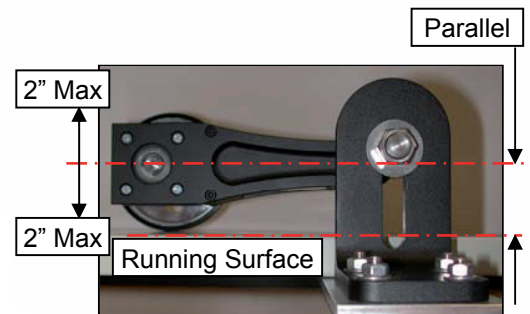
- Max travel is 50.8mm at the encoder shaft from no-load spring position.
- Increased spring load decreases max travel.
- For most applications a spring setting of 2.2 - 2.7 Kgs. is sufficient.

Connector / Cable Orientation:

- Multiple connector exit orientations are available at 90° increments (See image to the right).
- For ease of assembly when using the rear connector exit orientation, install mating electrical connectors/cord-sets onto threaded style connectors before installing the encoder onto the bracket.

Mounting the Encoder to the Pivot Bracket

1. If necessary, route the cable before mounting the encoder.
2. Install the four encoder mounting screws included in the kit, and tighten them securely.
Note: A thread locking compound should be used on the encoder mounting screws.
3. Mount the measuring wheel(s) on the encoder and securely tighten the setscrews.



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Single Pivot

For single wheel applications using pivot bracket kits #176430-01, #176430-02, #176727-01, and #176727-02.

1. Place the pivot clamp in-between the bracket arms.
2. For the spring option, place the tips of the spring inside the bracket box.
3. Install the assembly onto a fixed $\varnothing 15.8\text{mm} +0/-0.12$ ($\varnothing .625'' +0/-0.005''$) shaft.
4. Rotate the shaft clamp to pre-load the spring option if available.
5. While holding the clamp in a rotated position, tighten the two clamp bolts.

Note: A 1/2-20 bolt, rod, screw driver, etc. can be used to aid in rotating the clamp.

Double Pivot

For double wheel applications using pivot bracket kits #176431-01 and #176431-02.

1. Turn the threaded joint clockwise by hand until it bottoms out, and then unscrew the joint approximately 1 turn to allow for rotation after installation.
2. Install the assembly onto a fixed $\varnothing 15.8\text{mm} +0/-0.12$ ($\varnothing .625'' +0/-0.005''$) shaft.
3. For the spring option, apply a load to the spring.
4. While applying the load, tighten the two clamp bolts.