

QM22 INSTALLATION INSTRUCTIONS FOR 1.024" BOLT CIRCLE - Pilot Option

Step 1:

Mounting surface must be clean and flat. Fasten ring to mounting/motor surface by installing mounting screws and tighten to 45-51 oz·in. Illustration 1

Step 2:

- Before putting base and printed circuit board (PCB) assembly on to the shaft, align the Z slot on the hub with the white mark on the PCB. Illustration 2
- Place the base and PCB assembly on the ring and shaft as illustrated in Illustration 2.

Step 3:

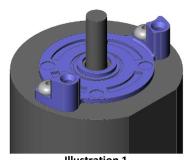
- Press down on the hub with the Q-Scale (p/n 2160AG276) to a force between 150 g (0.33 lb) and 700 g (1.5 lb). **Illustration 3** shows the appropriate zone for the pin on the Q-Scale to achieve the specified force range.
- Rotate the assembly Clockwise as indicated by the white arrows on the PCB - to the installation position. Proper installation position is achieved when rotation is at limit and the two cover mounting holes are exposed as indicated in Illustration 4.
- Confirm the Z slot and white mark alignment; realign if necessary.

Step 4:

- Tighten hub set screw to motor shaft to 18-22 oz-in.
- The downward force on the hub can be removed.

Step 5:

- Place cover on encoder, ensuring alignment of base dowel pins into mating cover holes. Illustration 5
- Rotate encoder so cover and PCB mounting slots align with the cover mounting holes in the ring. Illustration 6
- Install cover screws and tighten to 37-43 oz·in.





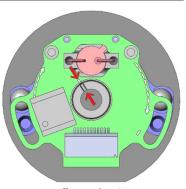
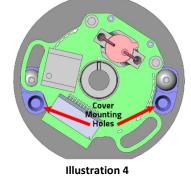


Illustration 2



Illustration 3



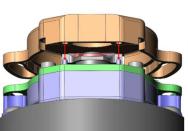


Illustration 5

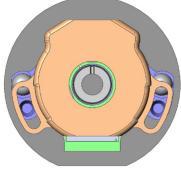


Illustration 6

DYNAMIC ALIGNMENT OF U, V, AND W COMMUTATION CHANNELS:

- Install cable.
- Loosen the cover screws slightly, allowing the encoder body to be rotated. Illustration 7
- While maintain a slight downward pressure on the cover, rotate encoder to align commutation channels to motor windings.
- Tighten cover screws to 37-43 oz·in.

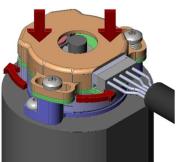


Illustration 7

Note: Refer to specification sheet for driver sizes.