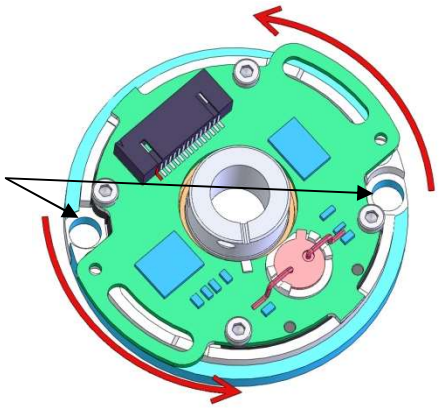
QM35/QML35 INSTALLATION INSTRUCTIONS FOR 1.280" BOLT CIRCLE

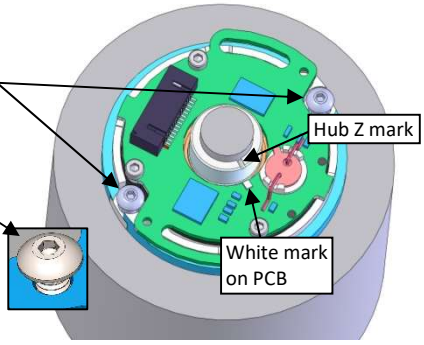
(QM35 Connector shown in illustrations)

STEP 1:
Rotate printed circuit board (PCB) to expose the mounting holes. This is the Lock position. Mounting/motor surface must be clean and flat.



STEP 2:
a.) Install mounting screws through encoder into mounting/motor surface. Insert 1-2 turns. **DO NOT tighten screws.**

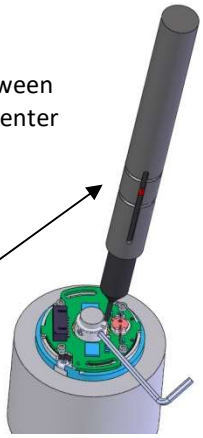
b.) Align Z mark on hub to White mark on PCB if commutation U, V and W is used.



STEP 3:
a.) Press down on the hub with a force between 150 g (0.33 lb) and 700 g (1.5 lb). This will center the encoder assembly to the motor shaft.

b.) Using slight forefinger and thumb force, verify no radial (side-to-side) movement of the encoder occurs.

Illustrated is accessory Q-Scale p/n 2160AG276.
Proper downward force is indicated when pin is between the force lines.

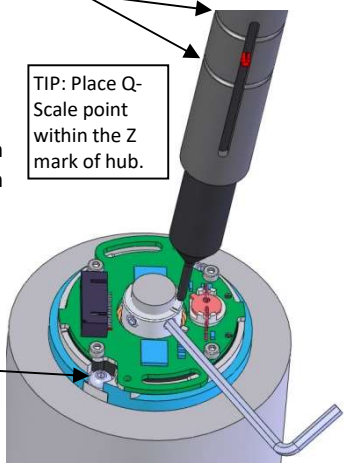


STEP 4:
a.) Tighten hub set screws to motor shaft.
#3-48 x 1/16" screw = 18-22 oz·in
#3-48 x 3/32" screw = 28-32 oz·in

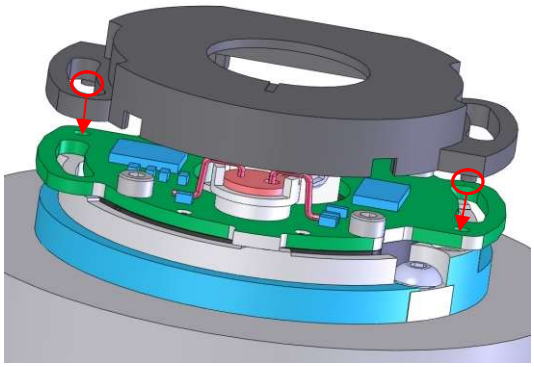
TIP: Place Q-Scale point within the Z mark of hub.

b.) The downward force on the hub can be removed.

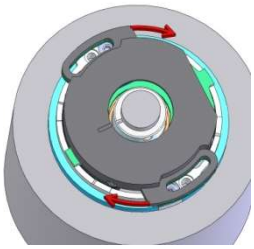
c.) Tighten mounting screws to 45-51 oz·in.



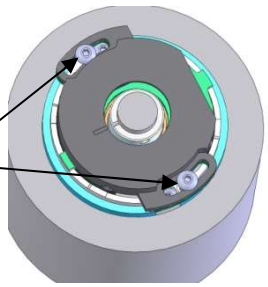
STEP 5:
Place cover on encoder. Observe the cover dowel pins positioned into mating PCB holes.



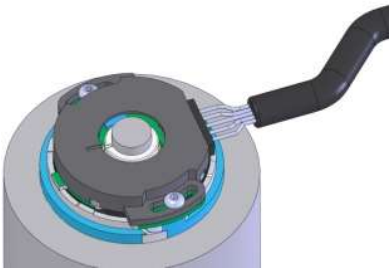
STEP 6:
a.) Twist cover/ PCB to expose screw holes for cover screws.



b.) Install cover screws and tighten to 37-43 oz·in.



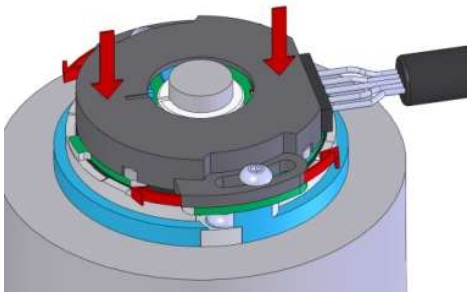
c.) Install cable to complete installation.



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

a.) Loosen the cover screws slightly, to allow the encoder body to be rotated.

b.) Maintain a slight downward pressure on the cover.



c.) Rotate encoder to align commutation channels to motor windings. Tighten cover screws to 37-43 oz·in.

Note: Refer to Hardware Selection Breakout chart for driver sizes.

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