

RM Encoders Mounting Instructions

Verify that you received the following items:

- Encoder
- Snap-on Cover
- .050" Ball End Wrench
- Mounting Hardware

CAUTION ---- ESD Precautions Apply ---- CAUTION

RM Preparation

Rotate hub until setscrew aligns with slot in PC Board.
Slide lock mechanism may need to be pushed in slightly to allow hub to rotate freely.
Pull slide lock mechanism out to full extended position.

Step 1

Align hub with shaft and gently push hub onto shaft until Encoder is resting on mounting surface.
([FIGURE 1](#))

Do not push down on Encoder, push on hub only!

Step 2

Press down on hub to insure it is seated in centering mechanism and secure hub to shaft by rotating setscrew clockwise until setscrew makes contact with shaft. ([FIGURE 2](#))

Step 3

Observe the short leg of allen wrench and rotate an additional ¼" clockwise to apply 20 oz-in torque.
([FIGURE 3](#))

Overtightening the setscrew will cause Brinelling of the shaft. This will make it difficult to remove Encoder

Step 4

When Encoder is seated on mounting surface, align Encoder with threaded holes and install mounting hardware. Refer to mounting drawing for requirements. Verify the hub is fully seated in Encoder base and secure mounting screws to 40 oz-in torque. (60 oz-in maximum) ([FIGURE 4](#))

Step 5

Push slide lock mechanism in completely. ([FIGURE 5A](#))

Visually verify that a gap is present between the disk and mask on underside of PC board as shown. If no gap is present, remove Encoder and reinstall. ([FIGURE 5B](#))

Step 6


Install cover. ([FIGURE 6](#))

If cover has through-hole option, align mylar seal with shaft and slide cover over Encoder body until tabs on the base engage with lockin feature on cover.

Care must be taken when installing through-hole cover onto a stepped shaft.

Unit is now ready for operation.

Change: General update

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Encoder Removal

Remove cover.

Loosen mounting hardware but do not remove. If hub was bonded to shaft, debond using recommended method. ([Bonding & Debonding Methods](#))

Loosen setscrew in hub.

Pull slide-lock mechanism to extended position. Encoder base may need to be moved slightly to allow centering ring to engage with bottom of hub.

Remove mounting hardware.

Remove encoder.

FIGURE 1

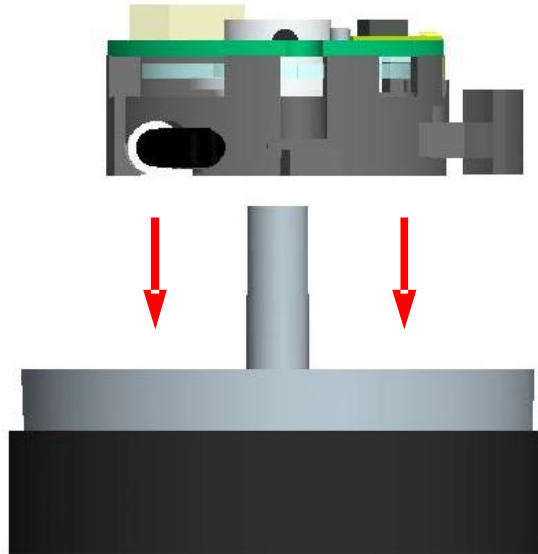
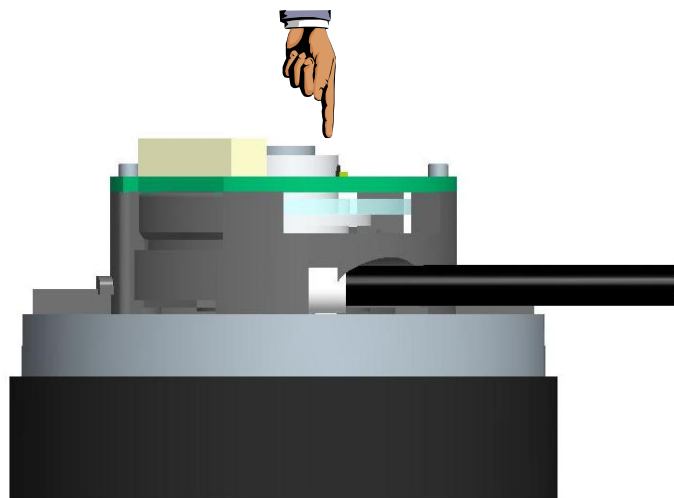


FIGURE 2



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FIGURE 3

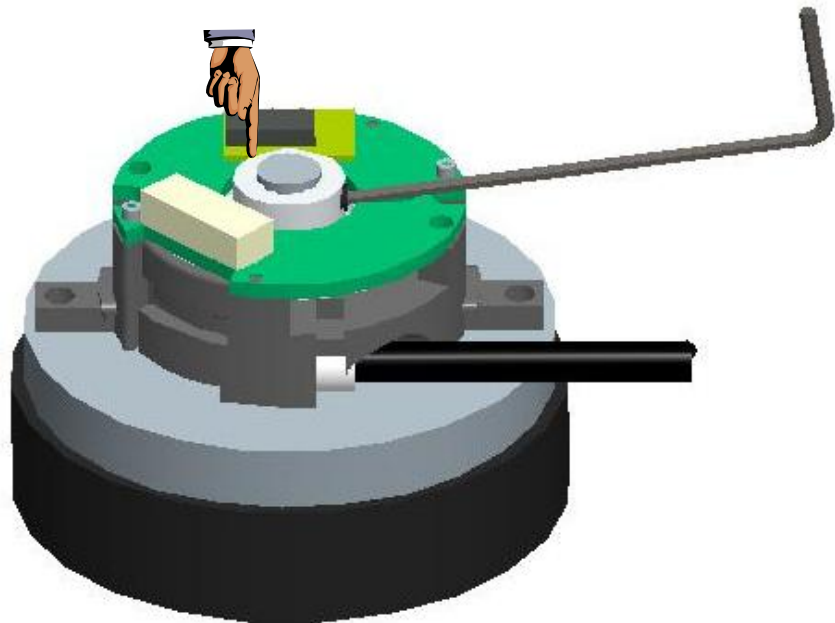
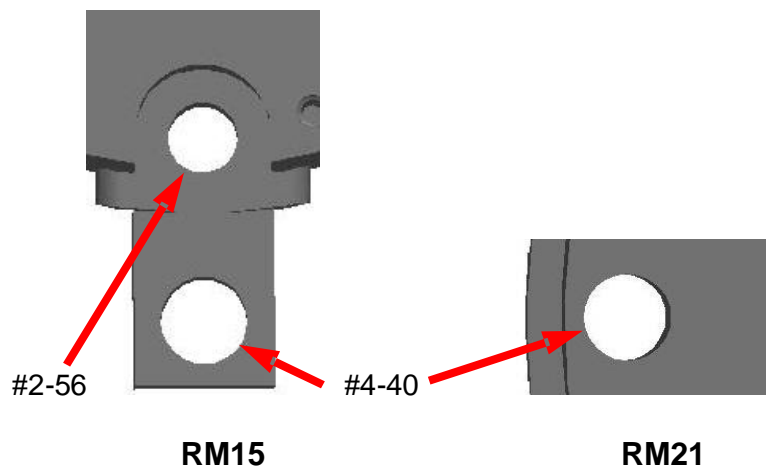


FIGURE 4




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FIGURE 5A

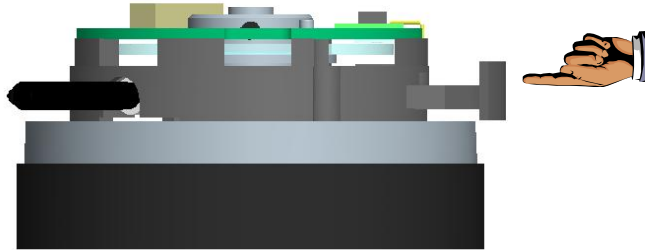
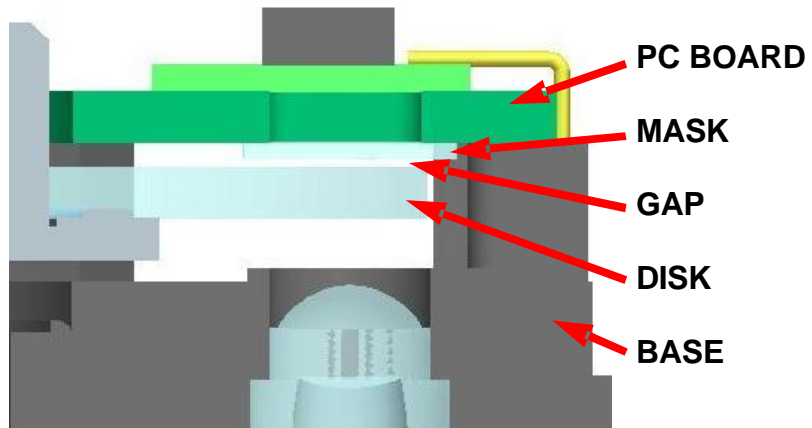


FIGURE 5B



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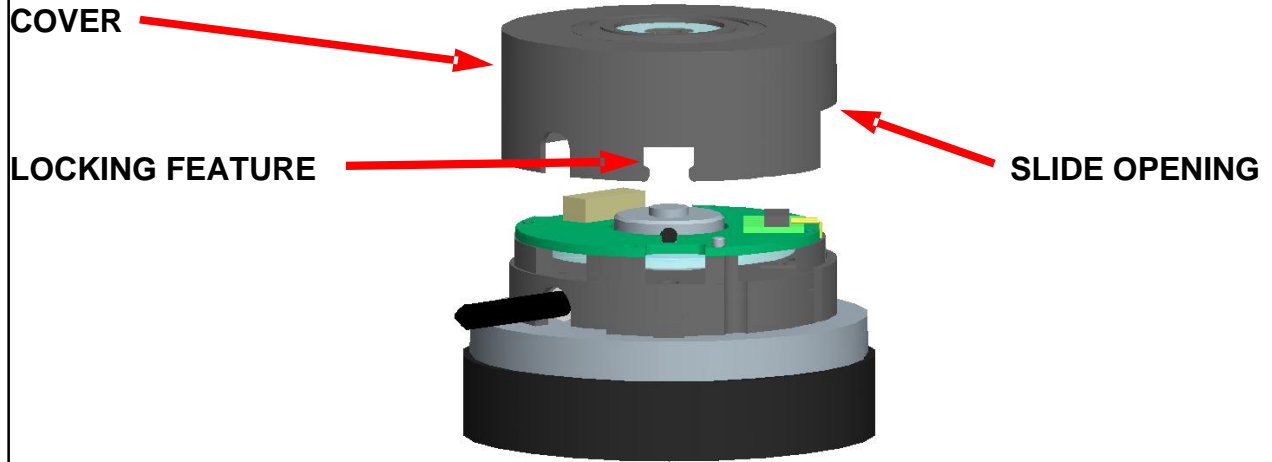

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FIGURE 6



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