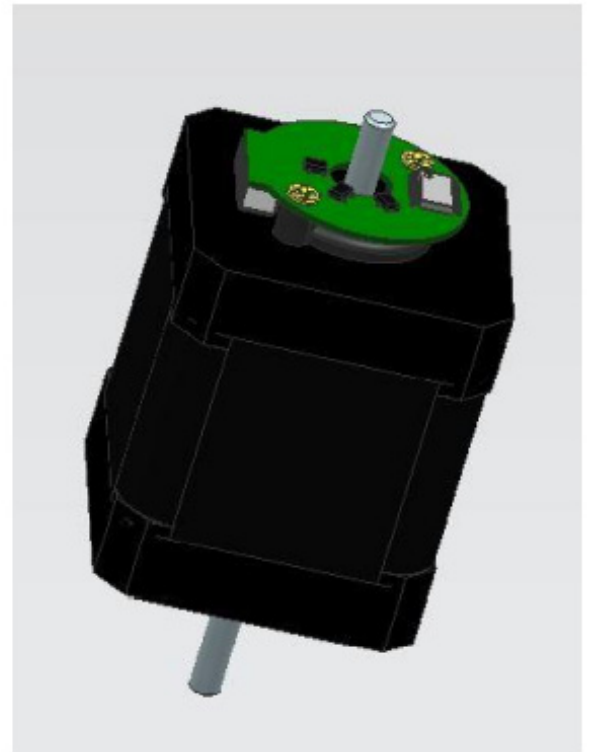
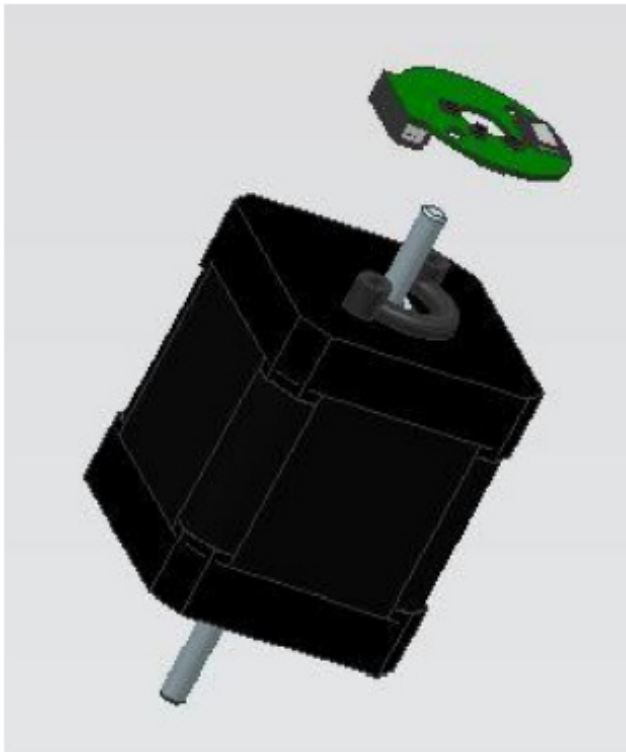


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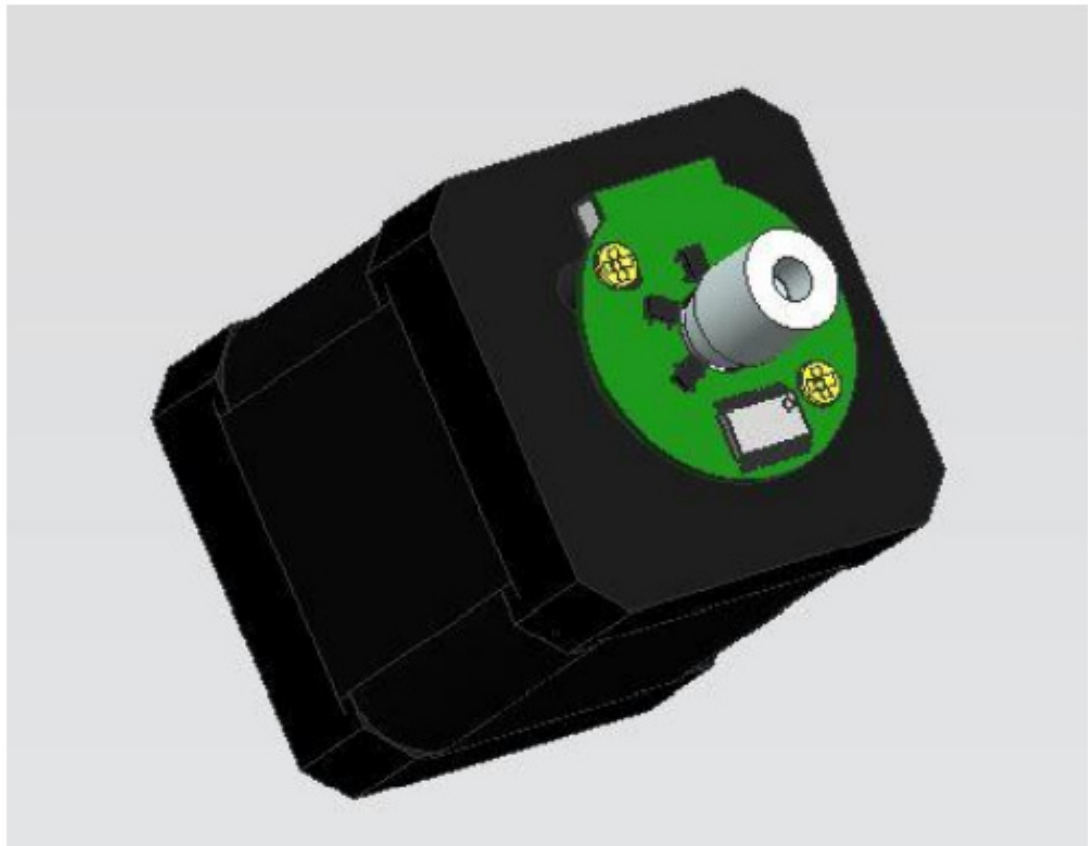
Step 1:

- Make sure the encoder mounting surface is flat and clean.
- Place the supplied spacer on the motor.
- Set the ENC-M111 sensor board on the spacer and secure to the motor housing using two M2.5 x 0.45 x 8. The recommended height for the screw head is 1 mm. Do not tighten the screws completely at this time.



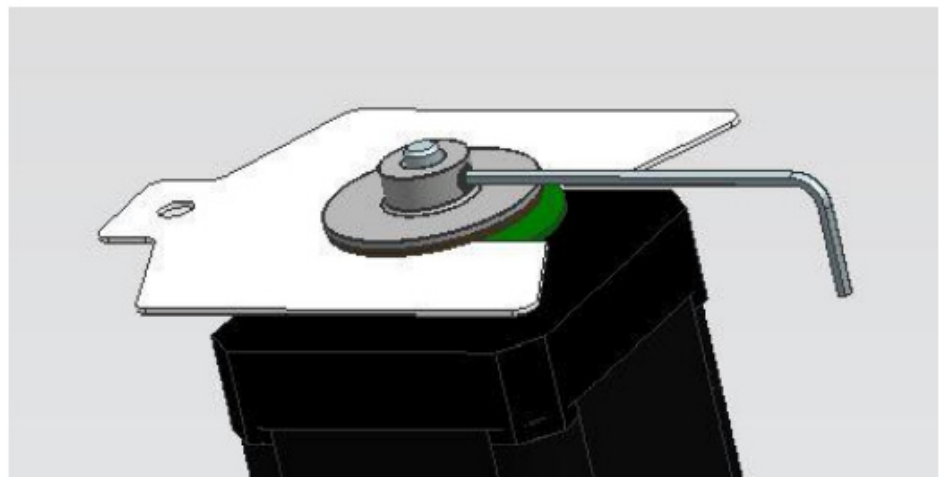
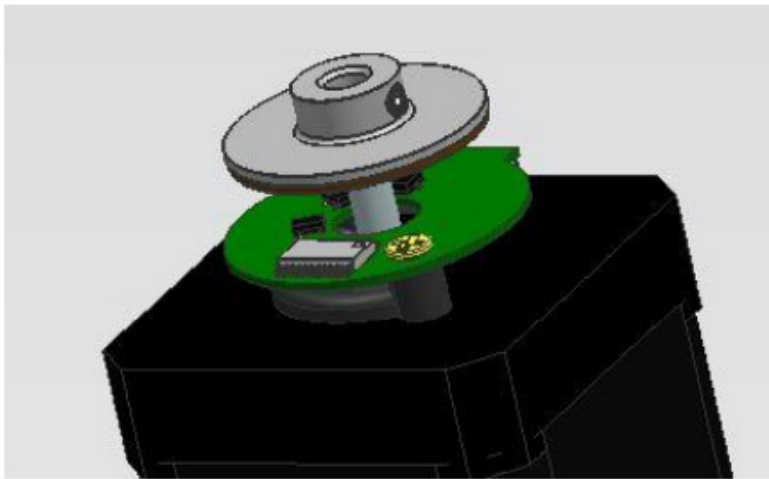
Step 2:

- Slide the alignment tool down the motor shaft with the cone end towards the ENC-M111.
- Slightly rotate the ENC-M111 encoder as needed and center the encoder by lightly pushing the alignment tool into the center hole of the encoder.
- Tighten the screws to secure the encoder to the motor housing.
- Maintain a constant pressure on the alignment tool while tightening the screws.
- Remove the alignment tool.



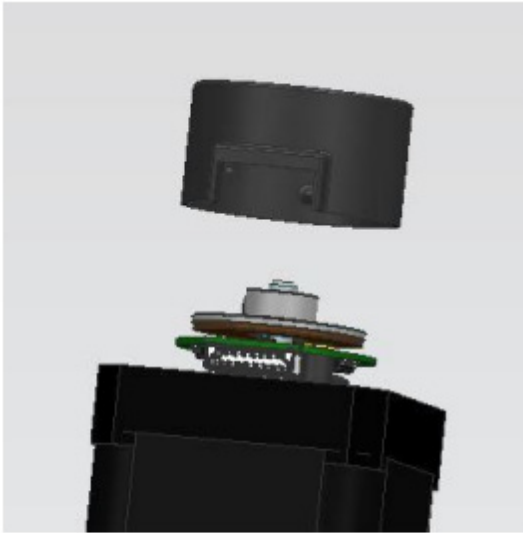
Step 3:

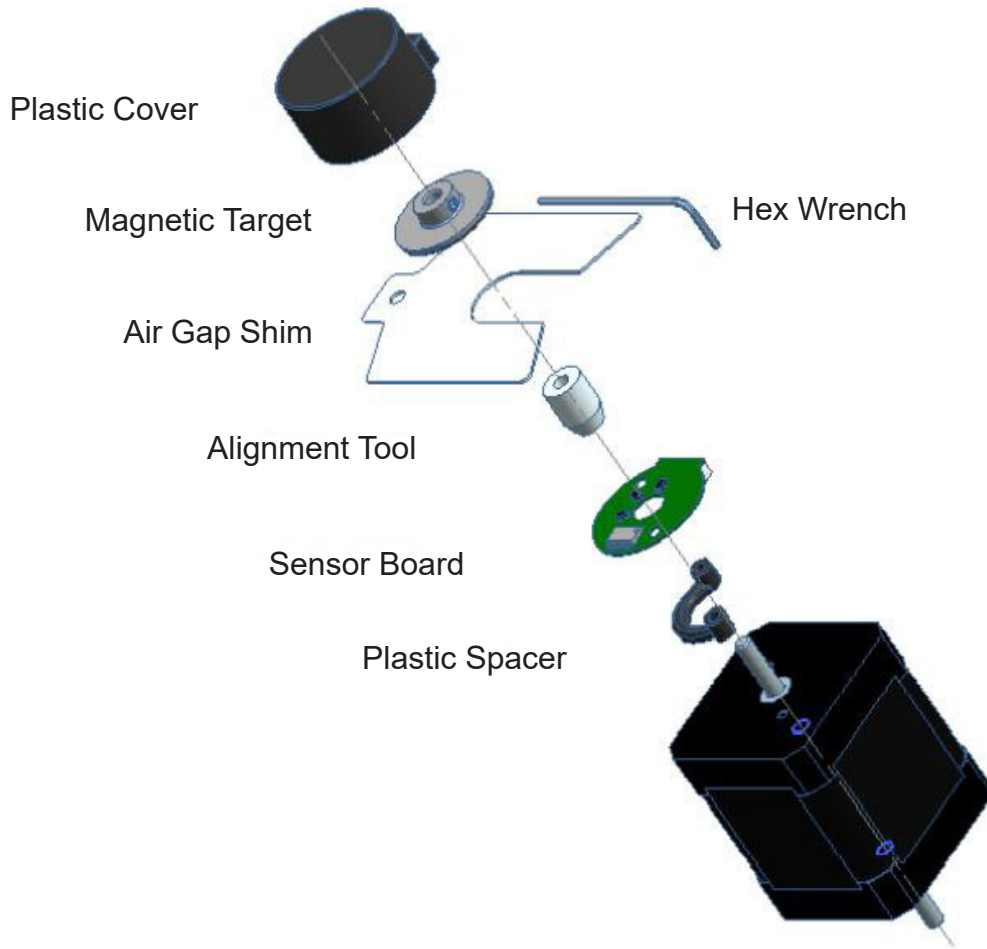
- Slide the ENC-M111 magnetic target down the shaft.
- Position the air gap shim between the top of the MPS160 ASIC and the magnet material on the magnetic target.
- Using the supplied 1.5 mm hex wrench, tighten the set screw on the magnetic target to a maximum torque of 3.9 kgf-cm.
- Remove the air gap shim.



Step 4:

- Place the plastic cover over the ENC-M111 and lightly press down towards the motor until it snaps on the ENC-M111 sensor board. Make sure to properly align the opening on the cover with the ENC-M111 connector.





Pin Number	Function	Color 15 Pin	Color 8 Pin
Pin 1	A+	Yellow	Yellow
Pin 2	A-	Yellow/White	White
Pin 3	B+	Blue	Blue
Pin 4	B-	Blue/White	Green
Pin 5	Index+	Orange	Orange
Pin 6	Index-	Orange/White	Brown
Pin 7	U+	Green	NC
Pin 8	U-	Green/White	NC
Pin 9	V+	Brown	NC
Pin 10	V-	Brown/White	NC
Pin 11	W+	White	NC
Pin 12	W-	White/Grey	NC
Pin 13	+5V	Red	Red
Pin 14	Ground	Black	Black