

## Assembly Guide for Encoder Kit

[am-2816a](#)

 A hand holds a silver metal motor housing. A small red dot is visible on a tab on the left side of the motor's face.	<p>Identify the tab with the red dot. Turn the motor so the red dot is on the left.</p>
 A hand holds a black plastic spacer ring. The ring has two small divots on its inner edge, which are being aligned towards the wrist.	<p>Align the black spacer so that the two divots are towards your wrist.</p>
 A hand presses the black spacer ring onto the motor housing. The spacer is being pushed down flat against the motor's face.	<p>Press the black spacer down flat against the motor case.</p>
 A hand inserts a green printed circuit board (PCB) into the motor assembly. The board has a green power connector on the left side.	<p>Insert the circuit board with the green power connector on the left side.</p>
 The final assembly is shown, consisting of the motor housing, the black spacer, and the green circuit board. The board is seated flat on the spacer.	<p>The board should sit flat on the black spacer.</p>

 A close-up photograph of a person's hand holding a green printed circuit board (PCB) mounted on a motor. The PCB has several components, including a green terminal block and a clear plastic component. Solder is being applied to the motor tabs on the board.	<p>Solder the motor tabs into place. Solder should be on both sides of the tab.</p>
 A close-up photograph of the same assembly. A black magnet is being aligned over the central shaft of the motor.	<p>Align magnet over shaft.</p>
 A close-up photograph showing the magnet being pressed down onto the shaft. The magnet is now almost flush with the clear plastic component.	<p>Press magnet until almost flush with clear plastic.</p>
 A close-up photograph of the assembly with a black top cover being placed over the circuit board.	<p>Place top cover over circuit board.</p>
 A close-up photograph of the final assembly. Two screws are being used to secure the black top cover to the motor housing.	<p>Attach screws to secure top cover.</p>