

RCH20 Mounting Instructions

Verify that you received the following items:

- Encoder
- Mounting Hardware
- Cable Assembly (If ordered)

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

RCH20 Preparation

Prepare cable assembly if not supplied.

Install mounting hardware loosely onto motor.

With cable assembly installed, energize encoder and rotate bore until S1 transition is present on the encoder and at least one of the setscrews in the encoder shaft clamp is accessible.

Energize motor for S1 track transitions by applying voltage to the appropriate windings.

Step 1

Slide encoder onto the motor shaft. Align hole on mounting adapter plate with the mounting hardware on motor. Slide mounting adapter plate under mounting hardware, center slot, and tighten until hardware touches the mounting adapter plate. Encoder should be able to turn easily.

Step 2

Securely tighten at least one setscrew in encoder shaft clamp. If accessible, both setscrews should be secured.

Step 3

Rotate encoder body until S1 track transitions. The commutation tracks are aligned properly when a slight twisting of the motor shaft in one direction causes S1 to transition high and a slight twisting in the opposite direction causes S1 to transition low. Repeat motor shaft twisting to verify S1 track alignment. The encoder may be rotated on the motor shaft if repositioning is required for alignment. No more than ± 20 degrees of rotation should be required.


Step 4

Secure encoder mounting hardware. Bond if required. Bond setscrews in clamp if required. Once installed, encoder signal S1 will be in transition, S2 will be low and S3 will be high. Encoder commutation track S1 is now aligned with the motor windings. Tracks S2 and S3 may be checked by energizing the motor for shaft angles 60 and 120 degrees and repeating the twisting procedure in step 3.

Step 5

Remove power to both motor and encoder. Cable assembly may be removed if required. Rotate motor shaft as needed to secure second setscrew if not already tightened in step 2.

Change: General Update

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Encoder Removal

Remove power to encoder and motor.

Remove cable assembly from PC board connector on encoder.

Loosen setscrews in shaft clamp.


Loosen hardware securing mounting adapter.

Rotate encoder until hole in adapter plate aligns with mounting hardware.

Remove encoder.

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