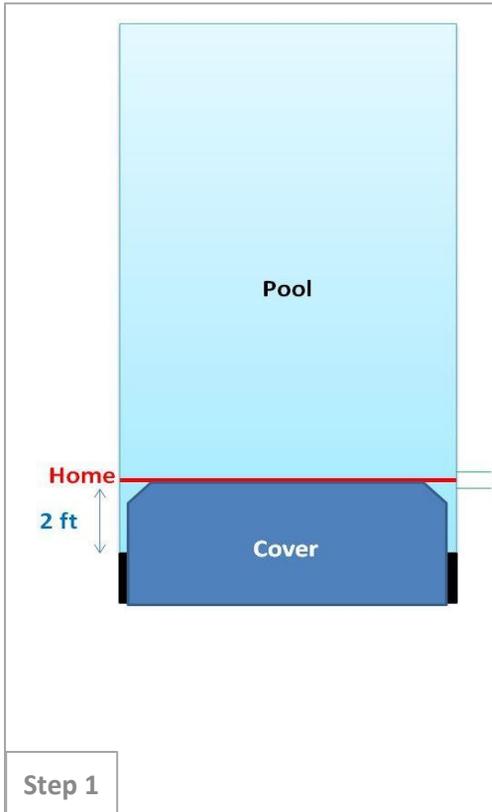


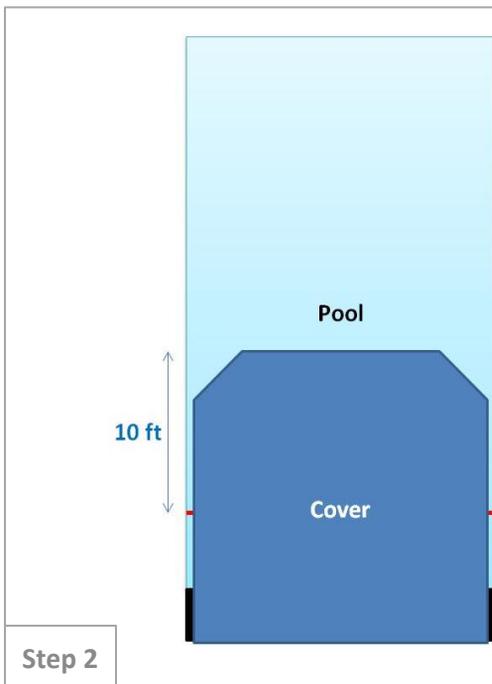
## Rotary Encoder Installation & Troubleshooting Guide



Set **home** position 2 ft. from the fully open position and place an object or pencil mark at this position.

Place **additional markers** or pencil marks 6 inches on either side of the home position.

Zero the encoder at the home position by pressing the **button** on top of the encoder. The button should blink 3 times to verify it has been set.



Operate cover in the **close** direction 10 ft.

This will tell the encoder to shut off water features when covering the pool.



Operate cover in the **open** direction until the cover has gone 6 in. to 1 ft. past the home position.

This will verify the encoder has switched states.

Step 3



Using a multi-meter set to **Ohms ( $\Omega$ )**, place one probe on the **white** wire from the Rotary Encoder and place the other probe on the **black** wire from the Rotary Encoder.

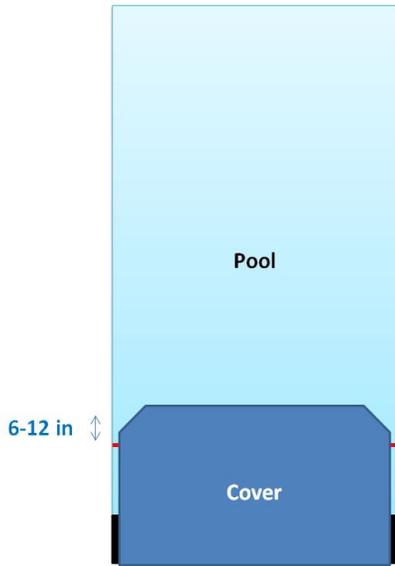
Many multi-meters have a sound function that will create a high pitched tone when resistance is low (this means the two wires are connected).

At this position two sets of wires are connected.

- The **white** and **black**.
- The **red** and **green**.



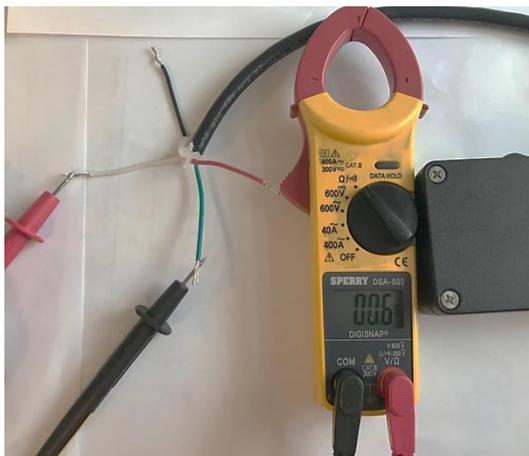
Step 4



Operate cover in the **close** direction until the cover has gone 6 in. to 1 ft. past the home position.

This will verify the encoder has switched states.

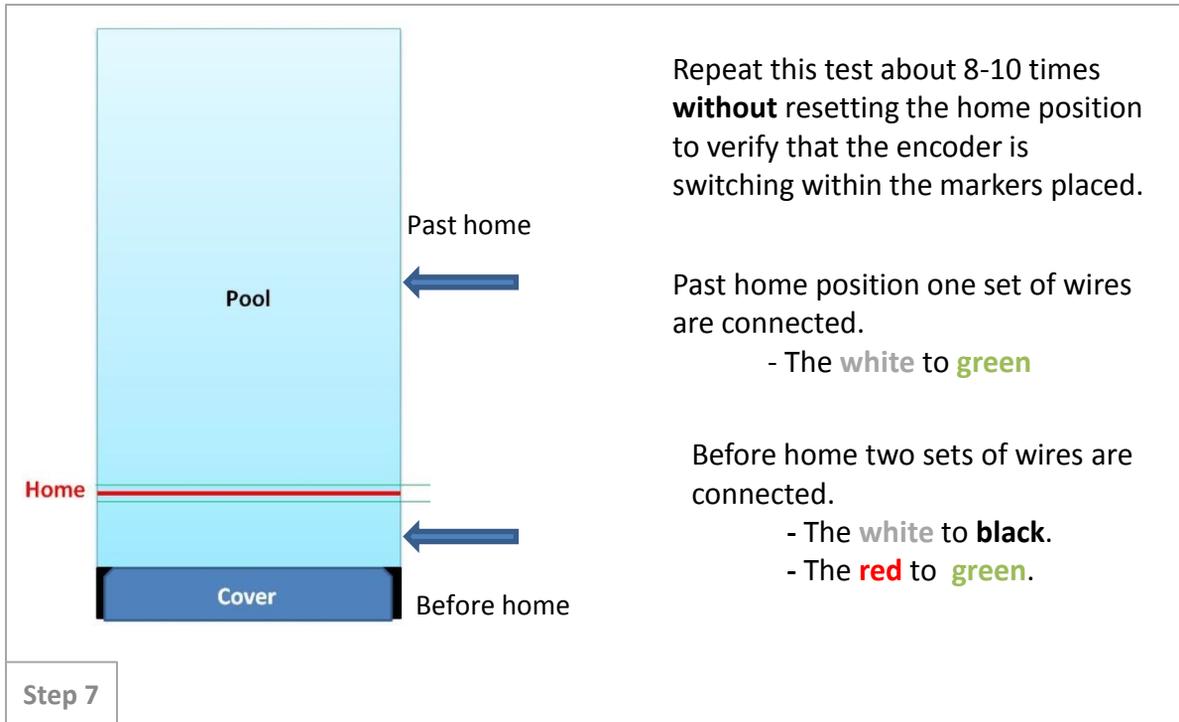
Step 5



At this position the **green** and **white** encoder wires should be connected.

No other wires should be connected.

Step 6



## Troubleshooting

**The feature does not turn on when I return to the home position.**

- Is the feature turned on at the pool controller?
- Is the sensor disk installed correctly?
  - (a) Is the sensor disk secured to the NME cone?
  - (b) Is the magnet still in place inside the sensor disk?
  - (c) Is the sensor disk bumping or rubbing anything as it rotates with the NME cone?
- Is the Rotary Encoder bracket installed correctly?
  - Is the mounting bracket directly on top of the brake block?
  - Is the Rotary Encoder parallel with the sensor disk?
- Is the wiring correct for the application?
  - See wiring instructions for wiring specifics.
  - Are wire connections clean, secure and dry?
  - Are low voltage wires in separate conduit from high voltage wires?
- Is the Rotary Encoder being used within the specified power limits?
  - Maximum Switching Power: 60W, 125VA
  - Maximum Switching Voltage: 220VDC, 250VAC
  - Maximum Switching Current: **2 AMPS**