



Encoder Test 2

Dual Planetary Gear Motor Sync with Control Box 1510000236 or 1510000276

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Tip Sheet # 82-S0535, Rev. OB

! WARNING

Always make sure that the slide out room path is clear of people and objects before and during operation of the slide out room. Always keep away from the slide out rails when the room is being operated. The gear assembly may pinch or catch on loose clothing.

When the encoder is unplugged and the motor shafts moving, the room stops will need to be reset. Consult the correct manual or TIP sheet for the proper procedure.

! NOTE

Power Gear will not be liable for excessive labor time required to gain access to Power Gear components.

! Warning

12 volt automotive batteries contain sulfuric acid which can cause severe burns. Avoid contact with the skin, eyes and clothing. 12 volt automotive batteries produce hydrogen gas which is explosive; keep cigarettes, open flames and sparks away from the battery at all times.

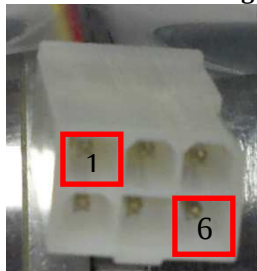
1217 E. 7th St.
Mishawaka, IN 46544
www.powergearus.com



Read, understand, and follow all instructions in this test before starting.
Encoder Test 2 for In-Wall system with Auto-Program control box 1510000236

Test 2: This is to be used when the slide-out room will not operate normally with the wall switch or room will not move 12" of travel. If the room will operate with the wall switch or the room will travel 12", proceed to Test 1 (Document # 82-S0534), available on our website at www.powergearus.com.

Motor / Encoder Plug Fault Code: Code 4 on control 1510000236 or 1510000276



Complete Motor Assembly

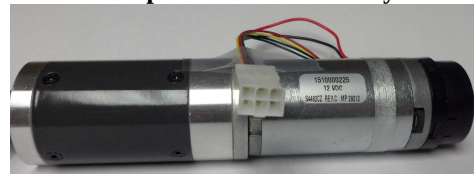


Figure 1

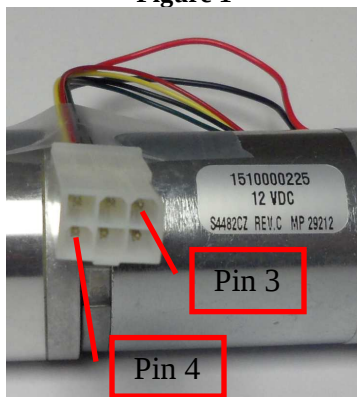
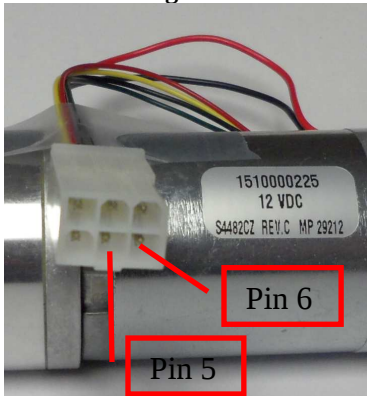


Figure 2



4 Wire Internal Encoder Testing

Indicates bad or loose connection on motor to control harness, defective motor to control harness, open or shorted slide out motor, or open or shorted slide out motor encoder. On the control box, the Green LED flashes to identify which motor encoder is in fault (see owner's manual 3010002813).

STEP 1: Removing the Motor/Encoder Assembly from the rail assembly.

NOTE: Depending on the accessibility, it may be necessary to remove the interior motor cover or the exterior motor cover. The motor is located at the top of the in-wall rail.

For questions on supporting the room or accessing the rail assembly, contact the OEM.

STEP 2: Applying 12VDC and Ground to the Motor / Encoder Plug.

Using a fully charged +12VDC battery:
Apply 12VDC to the motor / encoder plug pin 4 (red thinner gauge wire).

Apply a good ground to the motor / encoder plug pin 3 (black thinner gauge wire).

See Figure 1. This will provide power to the encoder.

Using a multi-meter, back probe between Pin 4 and Pin 3 at the motor / encoder plug to verify there is 12VDC and Ground going to the encoder. **See Figure 1.**

Apply 12VDC to the motor / encoder connector on the red wire pin 5. Apply a good Ground to the motor / encoder connector on the black wire. This will provide power to the motor and will cause it to operate. **See figure 2**

Caution: The motor shaft will turn when the motor is operating.

! WARNING

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! NOTE

Power Gear will not be liable for excessive labor time required to gain access to Power Gear components.

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STEP 3: Checking for the encoder signal.

Using a multi-meter set on AC Volts, back probe between pin 3 and pin 1 at the Encoder Connector. **See Figure 3** Check for a steady AC voltage reading.

Using a multi-meter set on AC Volts, back probe between pin 3 and pin 2 at the Encoder Connector. **See Figure 4** Check for a steady AC voltage reading.

If there is a steady AC voltage, proceed to **Step 4**.

If there is NOT a steady AC voltage reading, or there is no voltage reading, replace the motor assembly. See the motor label or the rail assembly label for the Power Gear part number for replacement.

Figure 3

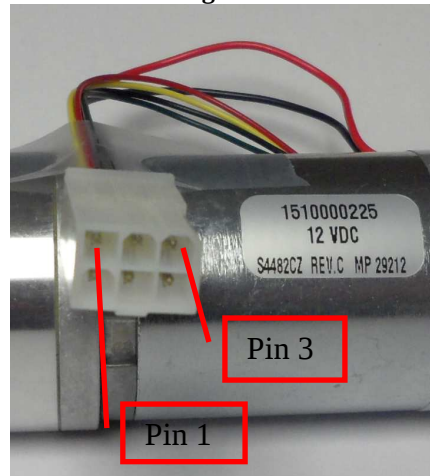
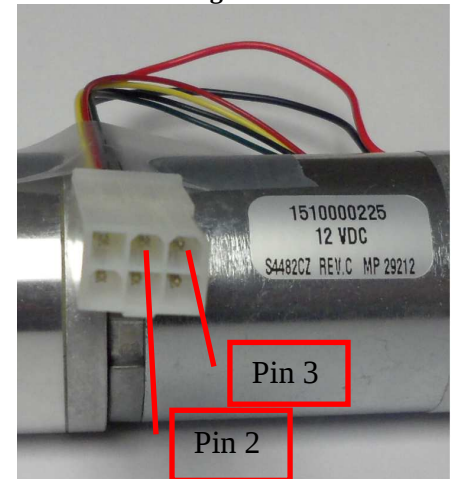


Figure 4



Step 4: If the test in STEP 3 showed a steady AC Voltage at the Encoder Connector, contact Power Gear Technical Serviced at www.powergearus.com for further diagnostic before proceeding.

Additional Reference Information located At www.powergearus.com

<u>Document #</u>	<u>Description:</u>
3010002814	Owner's manual slim rack in-wall slide out system 1510000236 or 1510000276
3010002813	Installation and service manual slim rack slide out 1510000236 or 1510000276
82-S0533	Trouble shooting slide out control box 1510000236 or 1510000276
82-S0534	Encoder test 1 dual planetary motor sync control 1510000236 or 1510000276