



# Encoder Test 2

Slide Out Controls 140-1233, 140-1249  
140-1249s, 1510000165

Tip Sheet # 82-S0525, Rev. OB

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## ! 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.

## ! NOTE

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

## ! CAUTION

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.

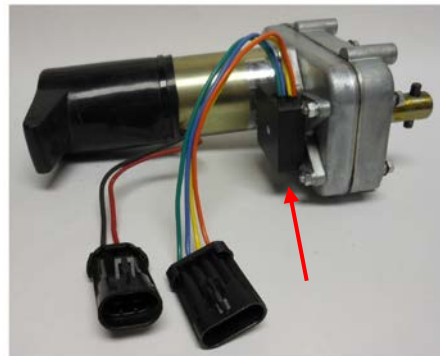
**Read, understand, and follow all instructions in this test before starting.**

**Test 2:** This is to be used when the slide-out room will not operate normally with the wall switch or if the room will not move with the teach pendant tool (140-1176). If the room will operate with the wall switch or the room can be moved with the Teach Pendant tool, then proceed to Test 1 (Document #82-S0524), available on our website at [www.lci1.com](http://www.lci1.com).

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

**NOTE:** Depending on the accessibility, it may be necessary to remove covers and other coach components to gain access to the motor assembly. See Note.

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



External Mounted Encoder



Internal Mounted Encoder

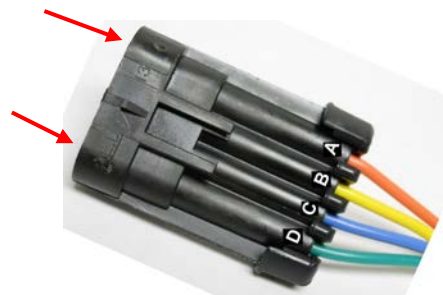


Figure 1

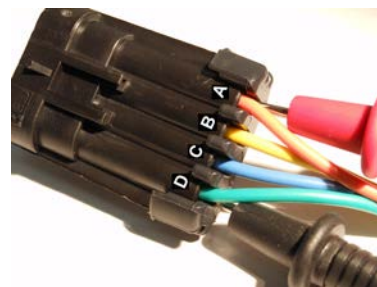


Figure 2

### **STEP 2: Applying 12V DC and Ground to the Motor Plug and to the Encoder Plug.**

Using a fully charged +12V DC battery: Apply 12V DC to the Encoder Plug labeled "A".

Apply a good Ground to the encoder plug labeled "D".

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

Using a multi-meter, back probe between Pin A and Pin D at the Encoder Plug to verify there is 12V DC and Ground going to the encoder. **See Figure 2.**

Apply 12V DC to the Motor Plug on the red wire. Apply a good Ground to the Motor Plug on the black wire. This will provide power to the motor and will cause it to operate.

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



## CAUTION

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## NOTE

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

### STEP 3: Checking for the encoder signal.

Using a multi-meter set on AC Volts, back probe between Pin "D" and Pin "B" 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 "D" and Pin "C" 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 Encoder only (if external mounted encoder see Figure 5 and 6) or motor assembly (if internal mounted encoder). See the motor label or the rail assembly label for the Power Gear part number for replacement.

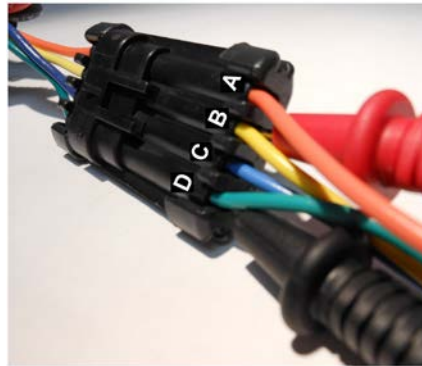


Figure 3

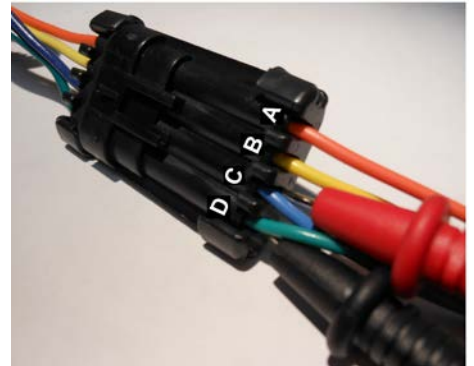


Figure 4



Figure 5  
Kit # 1010001442



Figure 6  
Kit # 800343

**Step 4:** If the test in STEP 3 showed a steady AC Voltage at the Encoder Connector, contact Lippert Components Technical Service at [www.lci.com](http://www.lci.com) for further diagnostic before proceeding.

## Additional Reference Publications At [www.lci1.com](http://www.lci1.com)

82-S0378	Owner's manual full wall slide systems
82-S0379	Service and installation manual full wall slide systems
82-S0514	140-1176 Programmer/teach pendant instructions
82-S0525	Encoder test 2: Slide-out controls 140-1233, 140-1249(s), 1510000165
3010000067	Emergency retract module instructions (ERM)
3010002189	Troubleshooting control boxes 140-1233, 140-1249(s), 1510000165

