Encoder Test 2

Dual Planetary Gear Motor
Sync with Control Box
1510000199

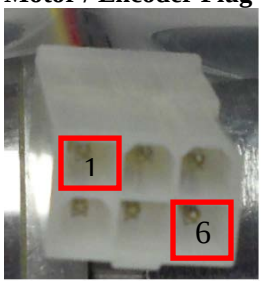
 Tip Sheet # 82-S0532, Rev. OB

Bunk Lift In-wall Encoder Testing

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

Test 2: This is to be used when the bunk lift will not operate normally with the touch pad or if the bunk is already retracted up and the override mode (see owner's manual # 3010002675for override mode) cannot be performed**.** If the bunk will operate with the touch pad or the bunk is down and the override mode can be performed, proceed to Test 1 (Document # 82-S0531), available on our website at www.lci1.com.

Motor / Encoder Plug



Fault Code: Code 4 on control 1510000199
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 touch pad, the Green LED flashes to identify which motor encoder is in fault (see owner's manual 3010002679).

Complete Motor Assembly

Figure 1

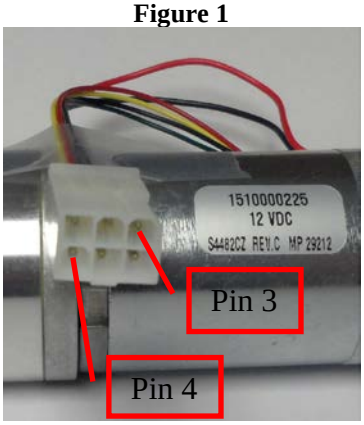
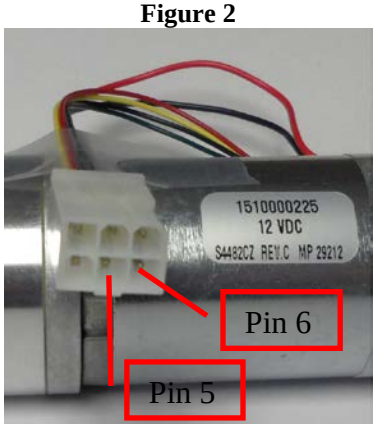


Figure 2



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. The motor is located near the gear rack on the wall.*

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

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

Using a fully charged +12V DC battery: Apply 12V DC 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 12V DC and Ground going to the encoder. ***See Figure 1.***

Apply 12V DC 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

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

When the encoder is unplugged and the motor shafts moving, the bunk 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.

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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

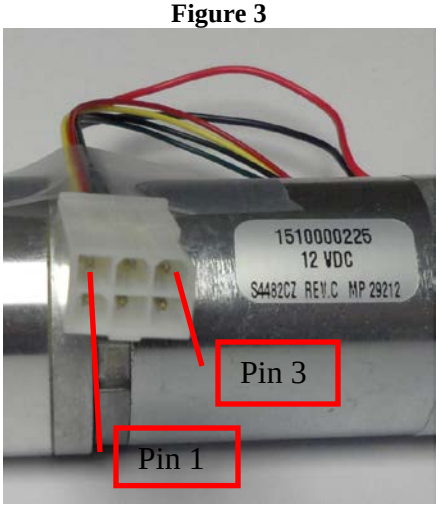
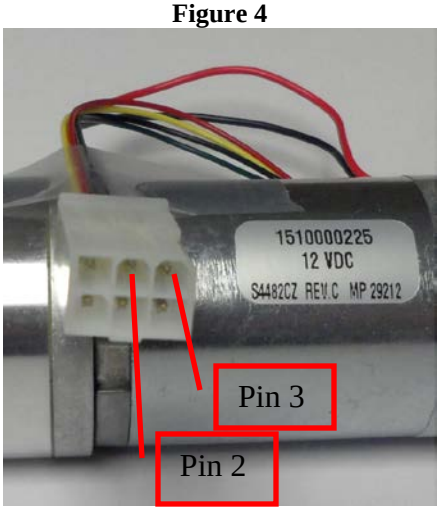


Figure 4



Step 4: If the test in STEP 3 showed a steady AC Voltage at the Encoder Connector, contact Lippert Components Technical Service at www.lci1.com for further diagnostic before proceeding.

Additional Reference Information located At www.lci1.com

Document #	Description:
3010002678	Owner's manual slim rack in-wall bunk lift control 1510000199
3010002675	Installation and service manual slim rack bunk lift 1510000199
82-S0530	Trouble shooting bunk lift control box 1510000199 Slim Rack
82-S0531	Encoder test 1 dual planetary motor sync control 1510000199

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