Troubleshooting Control Box 1510000236 or 1510000276 For In-Wall Slim Rack Systems

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Read, understand and follow all instructions in Installation and Service Manual 3010002813 before starting. This troubleshooting is for the In-Wall Slim Rack Auto-Program Slide-Out System with control box part number 1510000236 or 1510000276

![Control Box Image]

**WARNING**

Always make sure that the 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 room is being operated. The gear assembly may pinch or catch on loose clothing.

**Introduction**

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**Wiring diagram**

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**Slide out room will not move when wall switch is pressed**

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"A" 1 green LED and 1 red LED flashing on control box

5

"B" 1 green LED and 2 red LED flashing on control box

6

"C" 1 green LED and 4 red LED flashing on control box

7

"D" 2 green LED and 4 red LED flashing on control box

8

"E" 1 green LED and 6 red LED flashing on control box

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Troubleshooting Slide-Out Control Box 151000236 Slim Rack System

Slide out room will not move when wall switch is pressed

Does the touch pad have led's flashing?
  Yes
  No

Does the control box have a constant +12V/DC between the BATT + and GND Pins?
  Yes
  No

Start the engine or plug into to shore power. Do we have power now?
  Yes
  No

Is the Engine running or the coach shore power plugged in?
  Yes
  No

Contact the coach manufacturer for the power and ground supplies for the slide out control box.

At the slide out control box does pin 1 of the control box to touch pad harness box have 12VDC output?
  Yes
  No

Does pin 1 at the touch pad connector have 12VDC input?
  Yes
  Replace touch pad
  No

Unplug the BATT+ and GND- connector from the slide out control box for 10 seconds; plug harness into control box. Operate the touch pad and try and operate the room, does the slide out room function as designed?
  Yes
  Use slide out as designed.
  No

Replace the slide out control box.

Fault Diagnostics Section:
The green LED indicates which rail/motor had the issue, the red LED indicates what the problem is. See the installation and service manual 3010002813 for troubleshooting flow chart for other codes.

Go to "A" - 1 Green LED and 1 Red LED
Go to "B" - 1 Green LED and 2 Red LED
Go to "C" - 1 Green LED and 4 Red LED
Go to "D" - 2 Green LED and 4 Red LED
Go to "E" - 1 Green and 6 Red LED
Run the room in the opposite direction. If the room continues to move in the opposite direction, remove the obstruction. If the room stops moving, observe the fault code on the touch pad and refer back to FAULT DIAGNOSTIC SECTION in this flow chart.

Possible obstructions

- Inspect interior / exterior END BRACKETS; are they parallel with the gear rack?
  - Yes: Replace BULB SEAL or adjust BULB SEAL(S) clearance to GEAR RACK.

- Inspect interior / exterior BULB SEAL for damage by gear rack; is the bulb seal damaged?
  - No: Loosen FLAT FLANGE screws and remove obstruction, tighten FLAT FLANGE screws back down.

- Inspect interior / exterior WIPER SEAL for damage by gear rack; is the wiper seal damaged?

- Verify the FLAT FLANGE and the C-CHANNEL do not have any separation between them, are they tight to each other?
  - No: Blow out any debris from GEAR RACK and apply a dry lube to prevent and/or stop squeaking.

- Inspect GEAR RACK for damaged or foreign debris, is the GEAR RACK clear of debris?
  - Yes: Replace WIPER SEAL or adjust WIPER SEAL(S) clearance to GEAR RACK.
"A"
1 Green LED and 1 Red LED

Does the coach / trailer have a park brake to set?

Yes

Is the park brake engaged?

No→ Engage park brake

Yes

At the slide-out control box do you have a wire / connector in the park brake connector?

No→ Install jumper harness connector Power Gear part number 1510000237-00 into slide-out control box park brake connector.

Yes

Does the park brake pin have continuity to ground?

No→ Contact OEM for the park brake input source for the slide out control box.

Yes

Replace the control box
"B"
1 Green LED
And
2 Red LED

At the control box, do you have constant 12V DC between the BATT+ and GND- pins?

Yes

Unplug the 2 pin power harness from the slide out control box for 10 seconds, plug the harness back in. Is the low voltage LED code still flashing?

Yes

Inspect the control to touch pad harness, is the harness plugged in at both ends?

Yes

Inspect touch pad for damaged connector, is the touch pad damaged?

Yes

Correctly plug in control to touch pad harness

Replace the touch pad.

No

Replace the slide out control box.

No

Contact OEM for the power and ground input source for the control box.

Use slide-out system as designed.
Control box is not operating because it senses one of these conditions:
1) bad or loose harness connection
2) low voltage
3) one or more motors not moving
4) reversed motor wires
5) reversed encoder signal wires

Are the control to motor harnesses all plugged in to the correct ports at the control box per the installation and service manual 3010002813?

Unplug the motor 1 connector at the slide out control box. Does the motor operate when direct 12VDC is applied to the motor leads?

Are the connectors pinned correctly at each end of the 6 pin control to motor harness? (REF wiring diagram)

Continuity test control to motor harness, do you have continuity through each wire from end to end of harness?

Plug motor 1 harness back into control box. Unplug motor connector at motor 1. Do the motor operate when direct 12volts is applied to the red wire and ground to the black wire at the slide out motor leads?

Replace the slide out motor

Program the IN and OUT stops by using the installation and service manual 3010002813 at www.lci1.com

Test the sensors on the motor per document number 82-S0534 at www.lci1.com

Correctly plug in harnesses and try to operate the slide out room. Does the slide out room operate?

Yes

Use slide out room as designed.

No

Replace the slide out motor

Program the IN and OUT stops by using the installation and service manual 3010002813 at www.lci1.com

Test the sensors on the motor per document number 82-S0534 at www.lci1.com
Control box is not operating because it senses one of these conditions:
1) bad or loose harness connection
2) low voltage
3) one or more motors not moving
4) reversed motor wires
5) reversed encoder signal wires

Are the control to motor harnesses all plugged in to the correct ports at the control box per the installation and service manual 3010002813?

Unplug the motor 2 connector at the slide out control box. Does the motor operate when direct 12V DC is applied to the motor leads?

Are the connectors pinned correctly at each end of the 6 pin control to motor harness? (REF wiring diagram)

Plug motor 2 harness back into control box. Unplug motor connector at motor 1. Does the motor operate when direct 12volts is applied to the red wire and ground to the black wire at the slide out motor leads?

Test the sensors on the motor per document number 82-S0534 at www.lc1.com.

Correctly plug in harnesses and try to operate the slide out room. Does the slide out room operate?

Use slide out room as designed.

Continuity test control to motor harness. Do you have continuity through each wire from end to end harness?

Repair or replace the harness.

Replace the slide out motor

Program the IN and CUT stops by using the installation and service manual 3010002813 at www.lc1.com.
"E"
1 Green LED and 6 Red LED

Find the slide out control box.

Measure VDC between BATT+ and GND-, is it higher than 16.0V DC?
Yes → Contact OEM for the power and ground sources for the control box.
No

Unplug the BATT+ and GND- connector from the slide out control box for 10 seconds, plug harness into control box. Use the wall switch and try and operate the room, does the slide out room function as designed?
Yes → Use slide-out as designed.
No

Does the control box flash 1 Green LED and 6 Red LEDs?
No → Observe the fault code at control box and refer back to FAULT DIAGNOSTIC SECTION in this flow chart.
Yes → Measure VDC between BATT+ and GND-, is it higher than 16.0V DC?
Yes → Contact OEM for the power and ground sources for the control box.
No → Replace the control box.

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