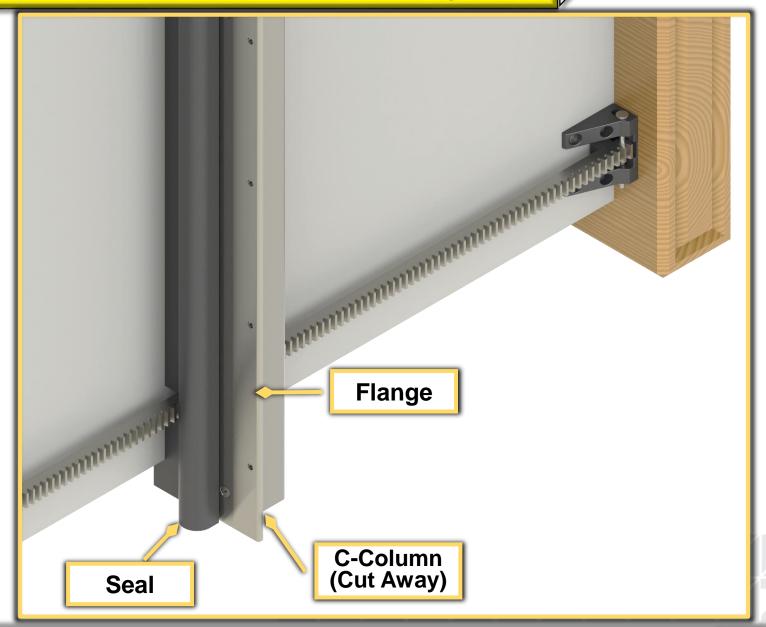




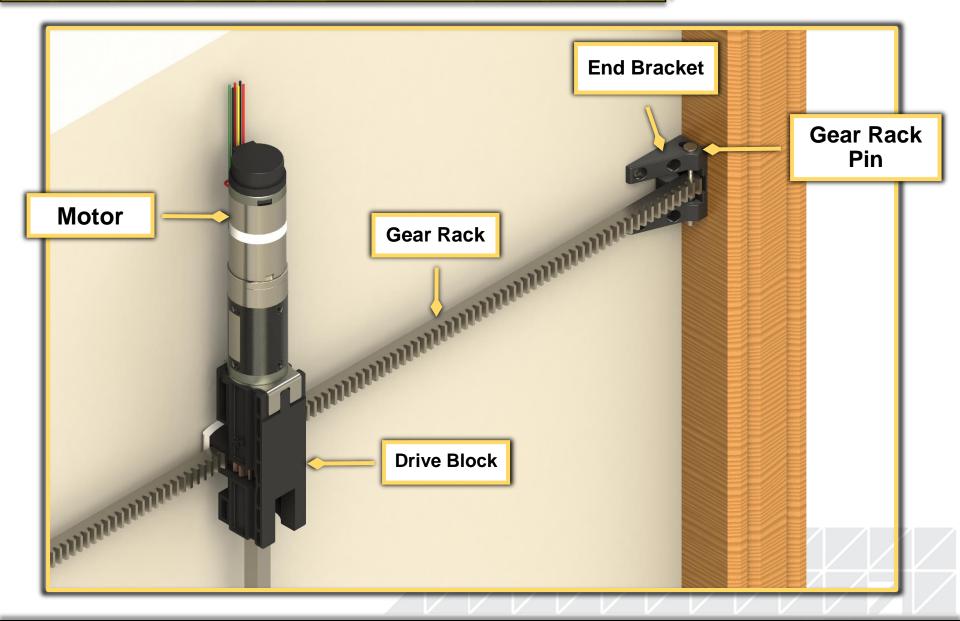
Lower Gear Rack Assembly



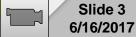


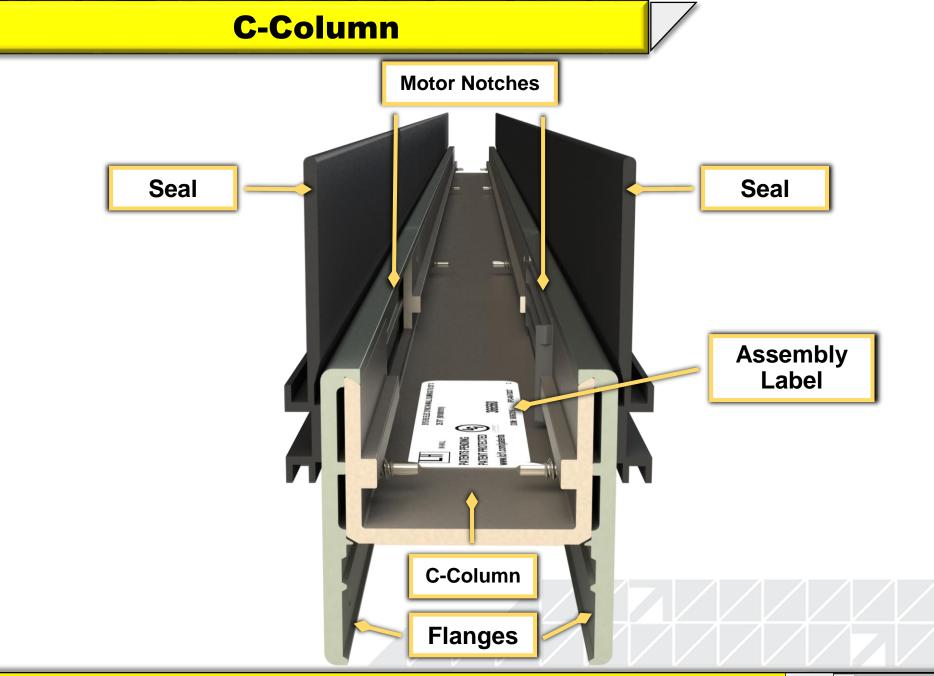


Upper Gear Rack Assembly



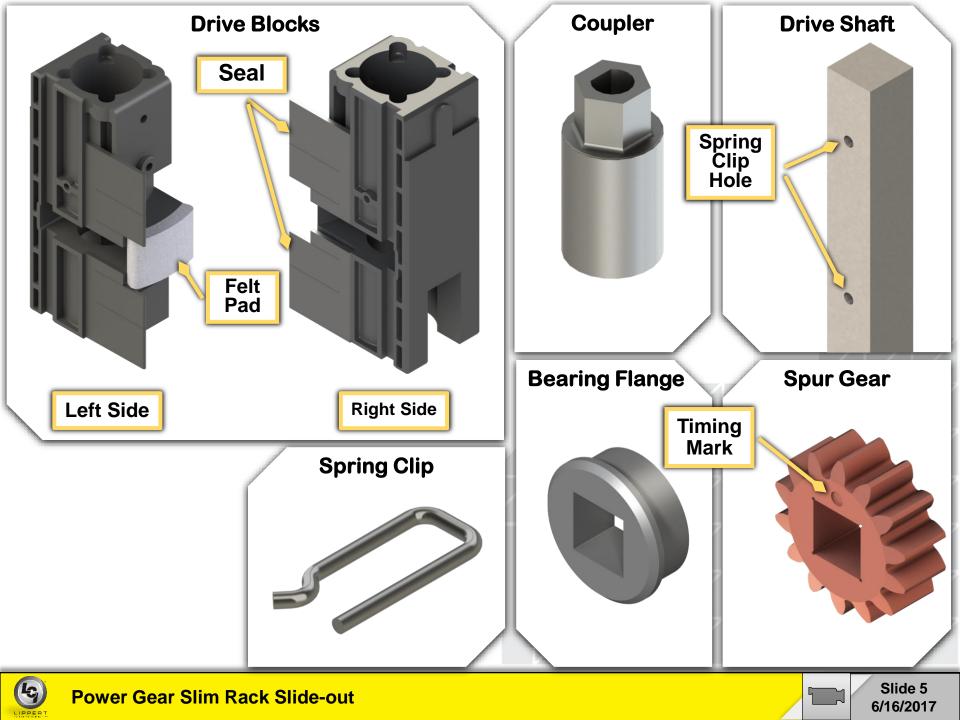




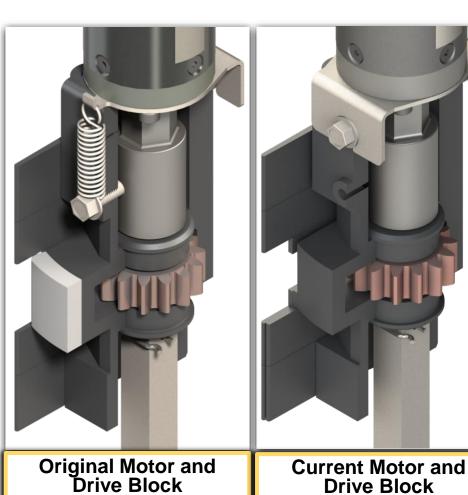


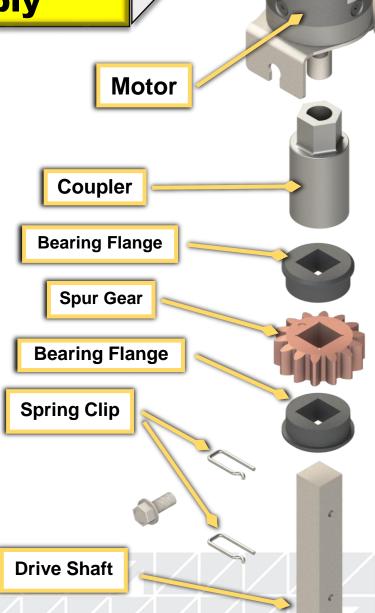






Upper Drive Shaft Assembly



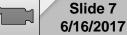




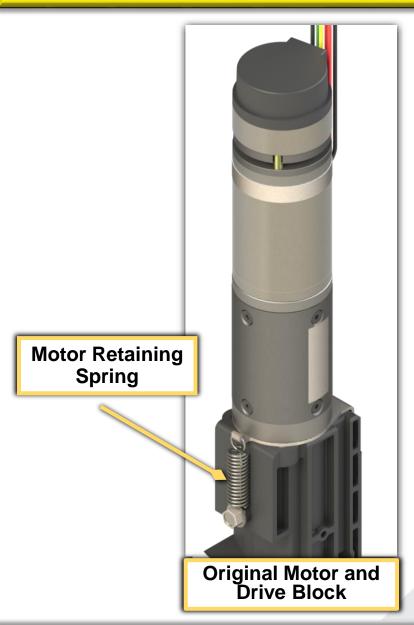


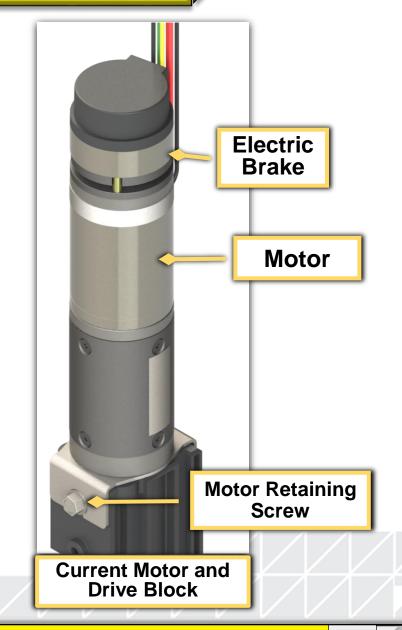
Gear Rack Assembly Push Nut Grooved Pin End Bracket End Brackets Grooved Pin Gear Rack Push Nut Notched Flat Slide 7





Motor

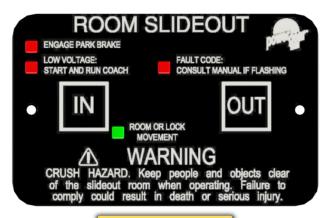








Programmable



Wall Switch



Controller

Auto Programmable



Wall Switch



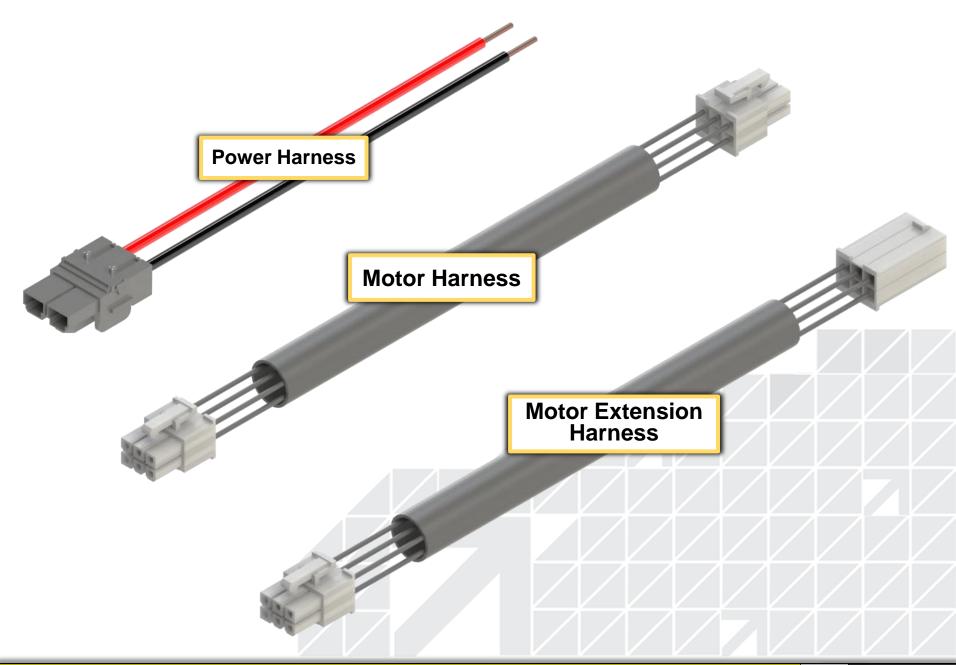
Controller





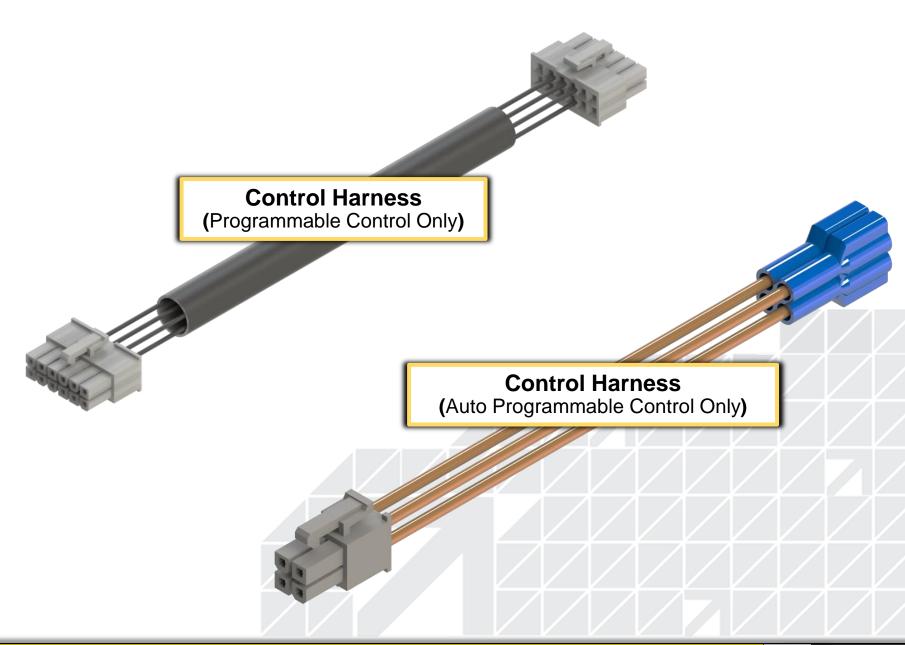
Slide 9

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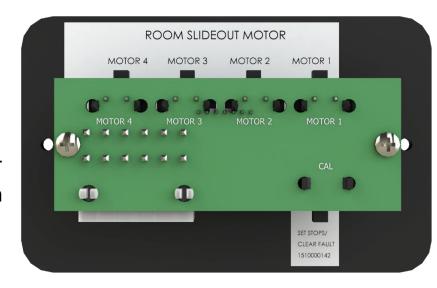


Programming

- 1. Remove the touchpad from the wall to gain access to the buttons on the back.
- 2. Press and hold the SET STOPS/CLEAR FAULT button on the back of the wall touchpad for five (5) seconds.
 - The green LED should be flashing and the red LED will be lit up solid.
- 3. Press and hold the MOTOR 1 and 2 buttons on the back of the touchpad while pressing the IN button. The room will move in.
- 4. Move the room to the fully retracted position.

 Press and release the SET STOPS/CLEAR FAULT button on the back of the wall touchpad to program the retracted stop position.
 - The red LED will now start to flash and the green LED will remain lit.
- 5. Repeat steps 3 and 4, only this time pressing the OUT button to put the room in the fully extended position.
- 6. Press and release the SET STOPS/CLEAR FAULT button on the back of the wall touchpad to program the extended stop position.
- 7. Both LEDs will flash rapidly for one (1) second and then shut off.

Programmable







LED Error Codes (Programmable)

Fault Code	Fault Type	Description	Possible Cause	Possible Solutions
1	Major	Stop not programmed	Stops have not been setStops were clearedStops were improperly set	Stops need to be programmed according to the PROGRAM MODE instructions.
2	Minor	System Fault	 Obstruction present Excessive system drag 	Run room in opposite direction. If room continues to move in the opposite direction, remove obstructions, excessive weight in room or repair of damaged component. If room stops moving in the opposite direction, observe the fault code and refer to this chart.
4	Major	Motor Fault	Bad or loose connection(s)Defective harnessOpen or shorted motor	 Check all connections at control box and motor. Check the harness for broken wires. Put 12.0 VDC to the motor, if it does not run replace the motor.
6	Minor	Excessive Battery Voltage	Incoming voltage to control is 17.0 VDC or greater	Check 2-pin power connector at control. If voltage is 17.0 VDC or higher, contact OEM for power and ground supplies.
Р	ark brake LE	D Flashing	 Parking brake not set (if applicable) Ground signal lost at parking brake connector on control box 	 Set parking brake (if applicable) Check for continuity to ground on wire plugged into park brake connector at control box.
Low voltage LED flashing			Incoming voltage to control box is below 12.0 VDC	Check 2-pin power harness at control box. If the voltage is below 12.0 VDC, contact OEM for power and ground supplies.





Slide 13

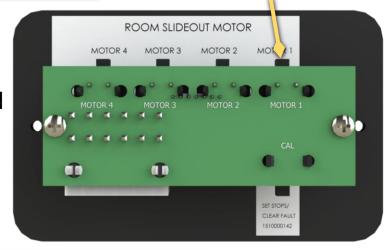
6/16/2017

Electronic Manual Override

Motor Button

Programmable

If a major fault is detected on either motor 1 or motor 2, the control can be put into programming mode and the room can be retracted using the motor buttons on the back of the touchpad. If this is attempted and the control goes back to the major fault, then manual override will need to be performed.









Programming

Auto Programmable

- 1. Press and hold the IN button on the wall rocker switch.
- 2. Move the room to the fully retracted position. Press and hold the IN button for 2 seconds after the room stops moving. Release the wall switch.
- 3. Press and hold the OUT button on the wall rocker switch.
- 4. Move the room to the fully extended position. Press and hold the OUT switch for 2 seconds after the room stops moving. Release the wall switch.



LI	ED Error	Codes (Auto P	rogrammable)
Fault Code	Description	Possible Cause	Possible Solutions

Set parking brake (if applicable).

box.

assistance.

Check for continuity to ground on wire

Start vehicle, generator, or ensure plugged

into shore power. Check 2-pin power

GND -. Consult manufacturer of unit

charging system for troubleshooting

Check wire harness.

Check motor.

Check wire connections.

Consult manufacturer of unit charging

system for troubleshooting assistance.

Slide 16

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connector at control box at BATT + and

plugged into brake receptacle at control

Park brake not set

Low Voltage

Motor 1 Fault

Motor 2 Fault

High voltage

Power Gear Slim Rack Slide-out

Green Flash: 1

Green Flash: 1

Green Flash: 1

Green Flash: 2

Green Flash: 1

Red Flash: 6

Type: Minor

Red Flash: 4

Type: Major

Red Flash: 4

Type: Major

Red Flash: 2

Type: Minor

Red Flash: 1

Type: Minor

Park brake not set (if

Ground signal lost at

Incoming voltage to control

room will NOT move if the

Bad wire connection

Bad wire connection

Supply voltage to control

box is 17 VDC or greater.

is below 12.0 VDC. The

voltage is 10.5 VDC or

Bad motor

Bad motor

below.

park brake receptacle at

applicable)

control box.

Electronic Manual Override

Auto Programmable

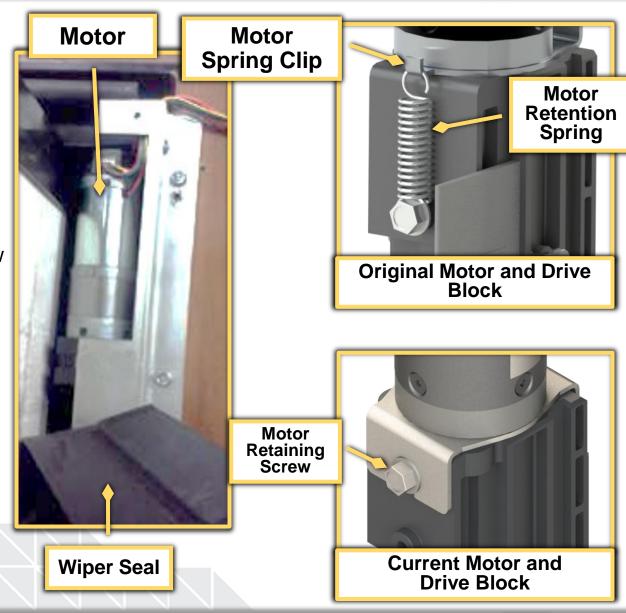
If a major fault is detected on either motor 1 or motor 2, the control will automatically enter "Emergency Jog" mode. When in this mode, the control will jog both motors in the IN direction. The rocker switch may need to be pressed multiple times to fully retract the room.





Manual Override

- Bend back the wiper seal.
- Visually locate the motor and motor retention spring or screw.
- Motor Spring Clip: Using a curved pick tool, remove the end of the retaining spring from the motor spring clip. **Motor Retaining Screw:** Loosen motor retaining screw to free motor from drive block.
- 4. Pull the motor up until disengaged.
- 5. Repeat this process for both sides of the slide room.
- 6. Push or pull room back in to the opening while keeping the sides relatively even.
- 7. The room must be travel locked to keep room in place for road travel.







Manual Override

- 8. Remove the motor.
- 9. Use a socket wrench with a 3" extension and 5/8" deep well socket.
- 10.1 person per side of the room (2 total).
- 11. Secure the room in place by either re-installing the motors or using a travel lock, 2 x 4 (cut to size), etc.





The room should set on the floor rollers. The system does not and cannot bear the weight of the room.

- Check that the slide-out has the correct number and placement of floor rollers installed:
 - One roller located 6" from each end of the slide-out
 - One roller located every 24" to 36" across the width of the slide-out
 - The weight of the slideout box should be carried by the rollers
 - The floor rollers should not spin freely
- 2. Check that seals are not getting caught in the rollers causing binding of the slideout.





Critical measurements/dimensions are as follows:

- Vertical distance from the bottom of the slide out room to the lower gear rack, measured at the inner and outer end brackets should be same from the front to the back bracket. A small variance is allowable, but no more than +/- 1/16".
- Vertical distance from the lower gear rack to the upper gear rack, measured at the inner and outer end brackets should be same from the front to the back bracket. A small variance is allowable, but no more than +/- 1/16".
- The end brackets should be mounted squarely.

Exterior Obstructions

- Check proximity to other coaches, trees, etc.
- Make sure there are no branches or other objects on top of the slide room.
- Check for any obstructions that may be in the travel path of the room.

Interior Obstructions

- Items on top of the slide room on the outside can end up on the inside.
- Look for water bottles, remotes, blankets, etc.
- Look for toys, quilts, dressers, etc.
- Check for any obstructions that may be in the travel path of the room.
- Clean the gear rack with soap and water only.

If the system squeals or makes any noises, blow out debris from the gear rack arms and apply a dry lubricant to prevent and/or stop squeaking.





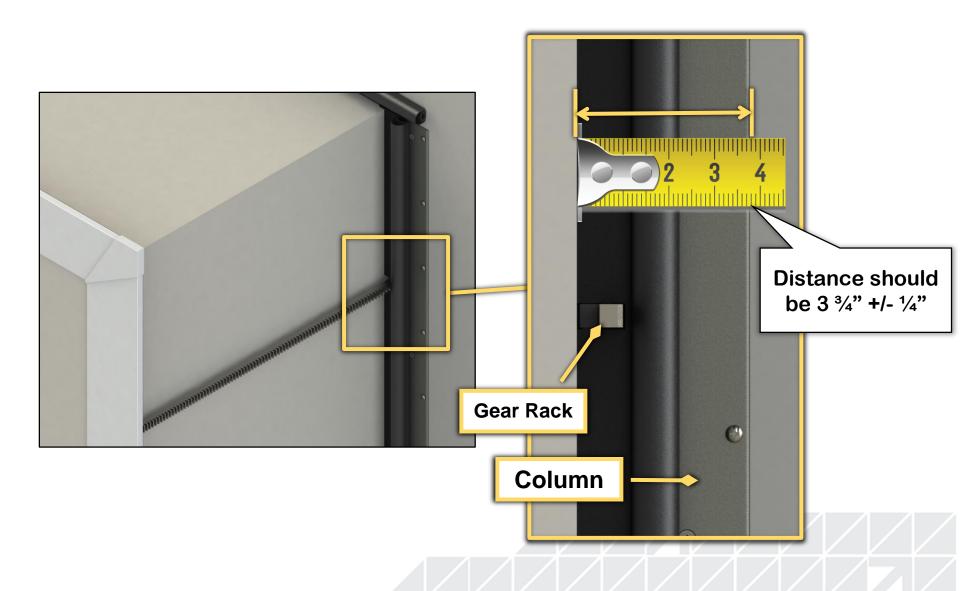
Seals

- Torn seals can cause drag.
- 50% of bulb seal compression is a good seal with the system.
- Look at the gapping on the seals around the gear rack for ideas of what may be causing the problem.

Gear Racks

- The gear rack is able to "float" back and forth and up and down within the end brackets.
- Check to make sure that the bulb or wiper seal is not being caught in the gear rack during room travel.
- The end brackets need to be mounted square to the room.









Repair or Replace

These parts are available for the Power Gear slim rack system and may allow for replacement of individual components.

- A. Control
- B. Harnesses
- C. Motor
- D. Motor coupler
- E. End bracket
- F. End bracket/gear rack pin
- G. Torn or damaged bulb seal

Damages listed below will require disassembly of the column assembly.

- A. Broken gear
- B. Damaged gear rack
- C. Broken bearing flange
- D. Bent or broken drive shaft
- E. Damaged drive block

Gear rack needs to be ordered by assembly number due to the drilling of the holes for the end bracket mounting pins.

Power Gear Assembly Label (Original)



PAT: US 8,840,164

WNB #: 189396-03

Sys #: 9010001015

Assy #: 1010002990

Date: xx/xx/xxx

Op: xxx

LCI Assembly Label (Current)



IN-WALI

PATENTS PENDING PATENT PROTECTED

www.lci1.com/patents



SYS RS ELEC SYNC IN-WALL SLIMRACK 76.125" X 25.76" (9010001019)

366560

DOM: 06/06/2016

RPO-045-F38337

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Question and Answer

If you have questions, please feel free to ask us now. Otherwise, we are available and happy to discuss anything presented with you.



Training and Troubleshooting

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