

# WELCOME TO LIPPERT TECHNICAL TRAINING

TRAINING INTRODUCTION



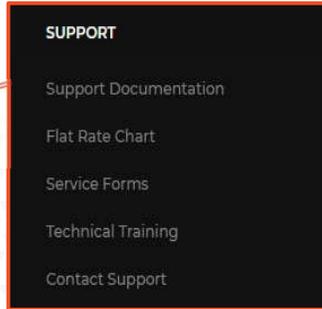
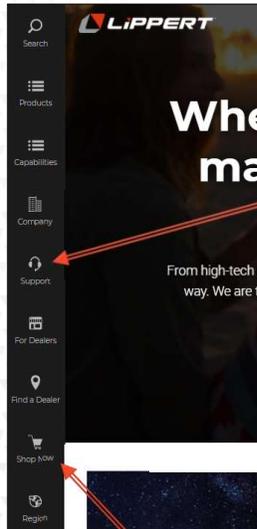
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## RV PRODUCT LINES



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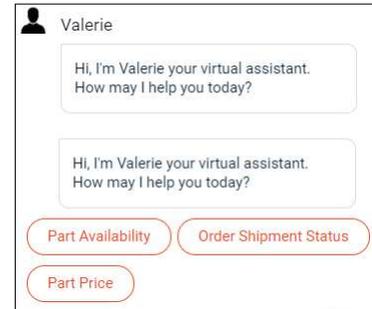
# ONLINE RESOURCES



## Support

1. [Support Documentation](#)
  - I. Assembly and Component Webpages
  - II. Install, Aftermarket, OEM and Owners Manuals
  - III. Quick Reference Documents
  - IV. Technical Information Documents
  - V. Videos
2. [Flat Rate Chart](#)
3. [Service Forms](#)
4. [Technical Training](#)
5. [Contact Support](#)

Valerie



Shop Now

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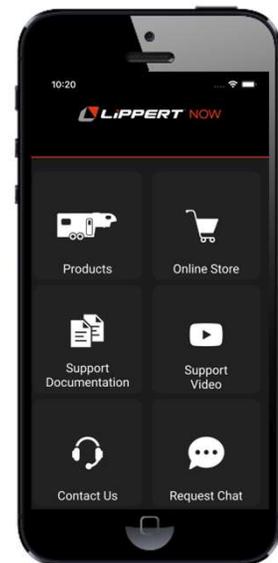
# CUSTOMER SUPPORT

**Hours of Operation**  
 Monday - Friday: 8AM - 7PM (ET)  
 Saturday: 9AM - 5:30PM (ET)  
 432-LIPPERT (432-547-7378)  
[customerservice@lci1.com](mailto:customerservice@lci1.com)

**Emergency (After Hours) Contact**  
 432-LIPPERT (432-547-7378)  
Option 1: Voice Mail  
Option 2: Emergency Technician

- Technical Support Info to Have:**
1. VIN (Vehicle Identification Number)
  2. DOM (Date of Unit Manufacture)
  3. DOP (Date of Unit Purchase)
  4. Pictures
  5. Part Number

**Current 24/7 Offering**  
[www.Lippert.com](http://www.Lippert.com)  
[Technical Institute Youtube Channel](#)  
 • Technical Videos  
 • Owners and Aftermarket Videos  
[MyLCI App](#)



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# TECHNICAL INSTITUTE

## Training Homepage

**Technical Training**

With our online technical training listing, you can quickly and easily sign up for any of our training seminars or service schools by registering on our site. We want technicians to know our products as well as we do, so we are constantly conducting training all over the world. We partner with OEMs, RVIA and RVDA to allow for more opportunities for training year round. For more information, contact [LCITraining@lci1.com](mailto:LCITraining@lci1.com).



Service Schools



Regional Training



Webinar Training



Contact Us

Event	Start	End	Details
Ground Control TT Webinar			<a href="#">Details</a>
Tongue and Stabilizer Jacks Webinar			<a href="#">Details</a>
May Service School			<a href="#">Details</a>
Texas Regional Technician School			<a href="#">Details</a>

View listings for service schools, regional and webinar training. Contact information can also be found here.

## Webinar Webpage



Complete the final exam to ensure credit for the course. After passing, your certificate will become available to you. There is also a survey for feedback.

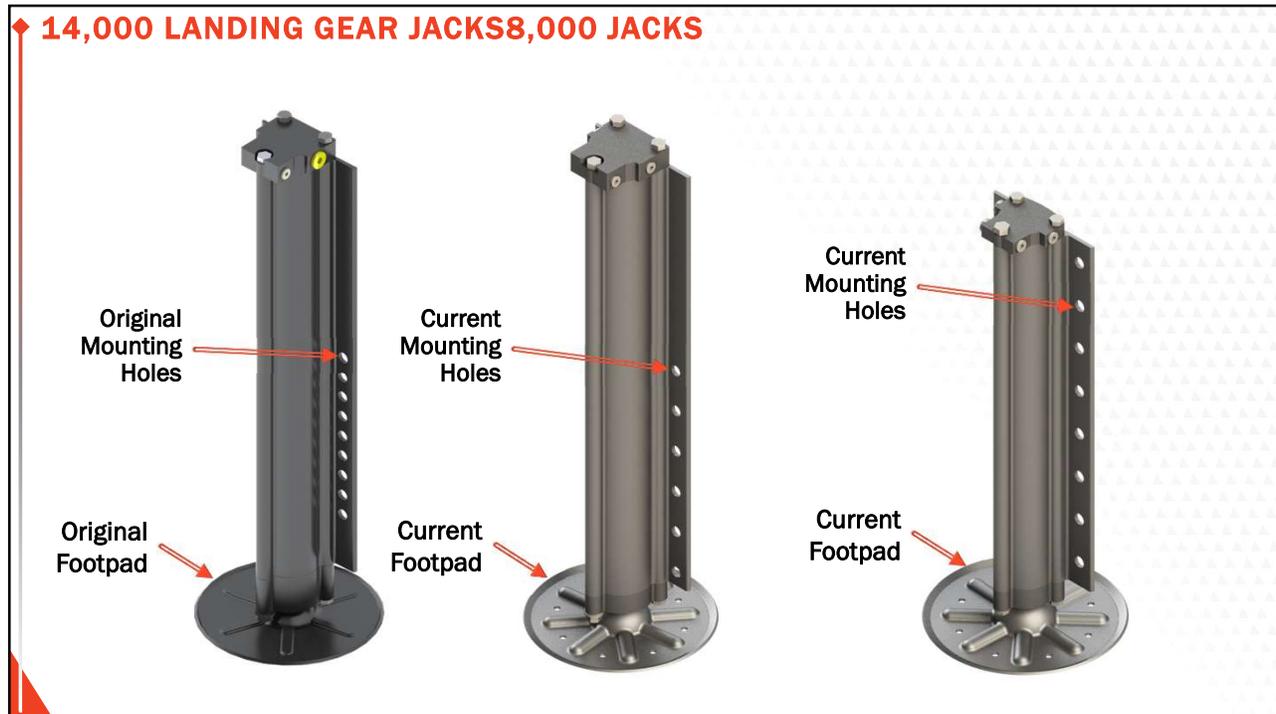
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# LEVEL-UP

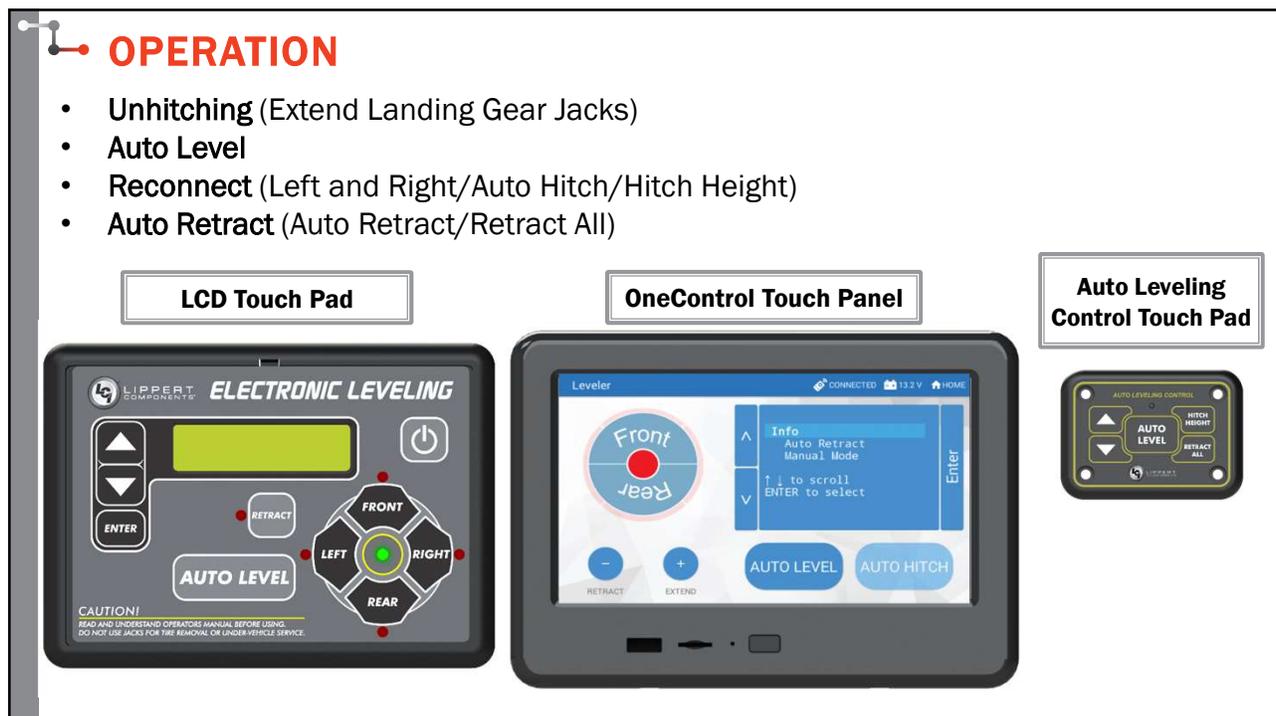
TOWABLE HYDRAULIC LEVELING



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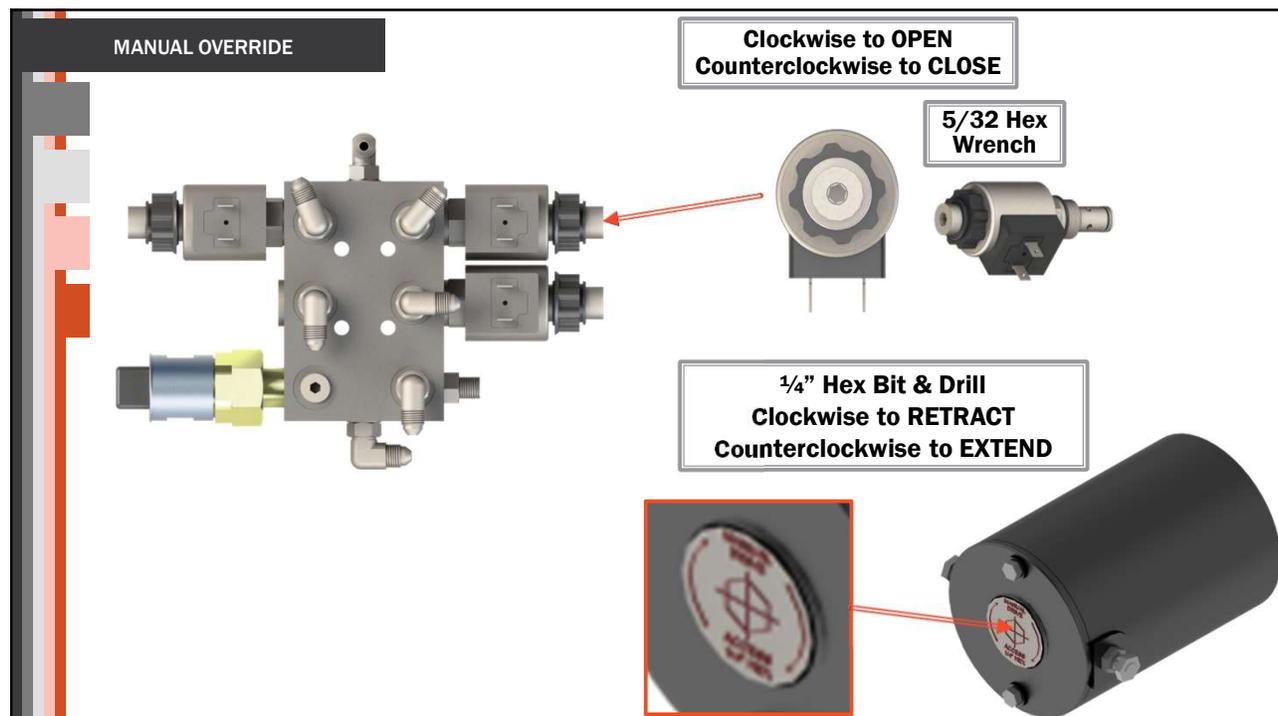
## SETTING THE ZERO POINT

### LCD TOUCH PAD

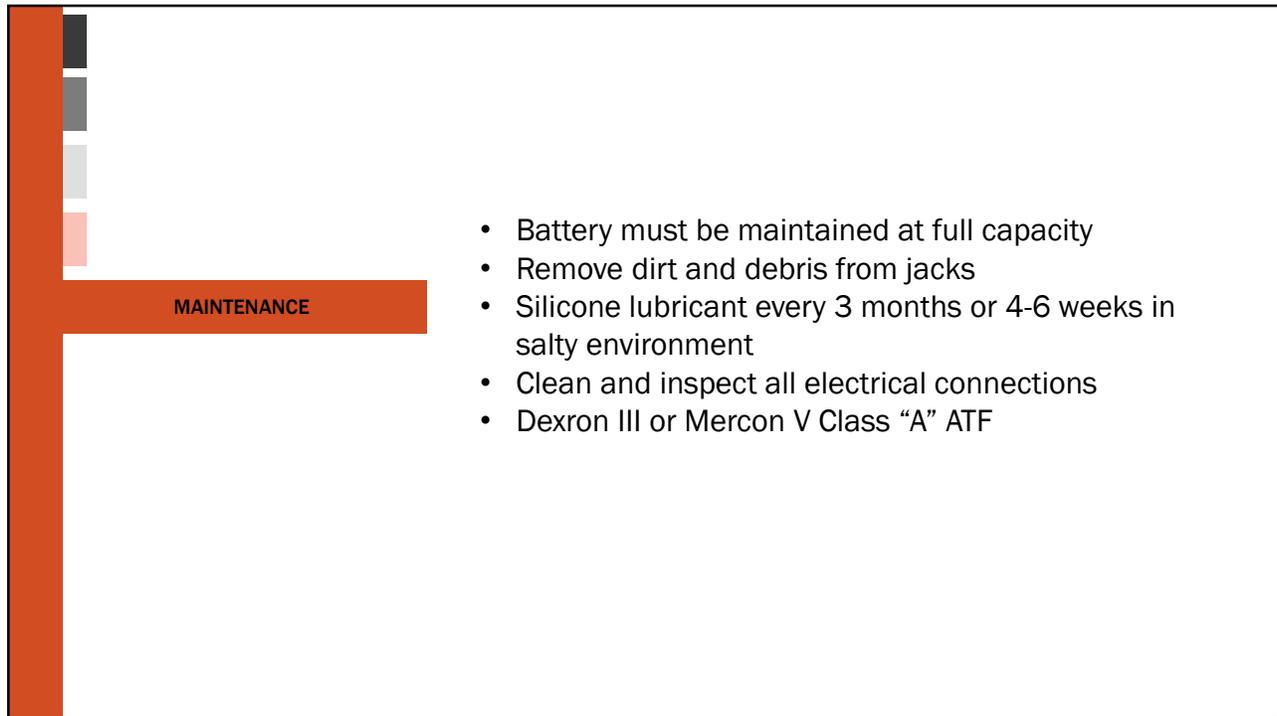
- Manually run the jacks to level the unit. This is best achieved by placing a level in the center of the unit and leveling it both front to back and side to side.
- Once the unit is level, turn off the touch pad.
- With the touch pad off, press and release the "FRONT" button 5 times and then press and release the "REAR" button 5 times.
- The touch pad will flash and beep and the display will read "ZERO POINT CALIBRATION ENTER to set, Power to Exit".
- To set the current position as the zero point, press "ENTER" button.
- LCD reads "Zero point stability check".
- LCD display will read "Zero point set successfully" once process is complete.
- The system will set this point as its level state and the touch pad will turn off.



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A graphic for a maintenance checklist. It features a vertical orange bar on the left side with a horizontal orange bar extending to the right from its midpoint. The word "MAINTENANCE" is written in white capital letters on the horizontal bar. To the right of the horizontal bar is a bulleted list of five maintenance tasks.

- Battery must be maintained at full capacity
- Remove dirt and debris from jacks
- Silicone lubricant every 3 months or 4-6 weeks in salty environment
- Clean and inspect all electrical connections
- Dexron III or Mercon V Class "A" ATF

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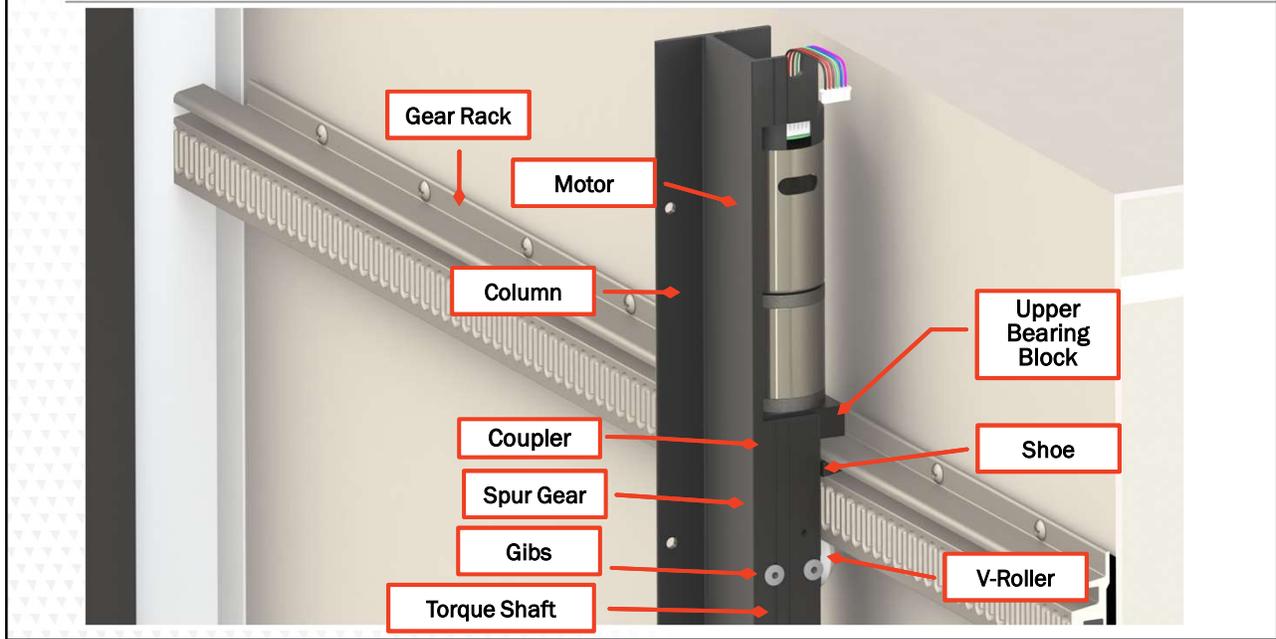
A graphic for a Schwintek In-Wall Slide-Out. It shows a 3D rendering of a slide-out compartment on a vehicle, partially extended. The compartment is light gray with a dark gray handle. The background is white with an orange textured area on the left. The text "SCHWINTEK IN-WALL SLIDE-OUT" is written in bold black capital letters. Below the text is the Lippert Technical Institute logo, which consists of a stylized orange and gray triangle followed by the word "LIPPERT" in bold black capital letters and "TECHNICAL INSTITUTE" in smaller black capital letters below it.

**SCHWINTEK  
IN-WALL  
SLIDE-OUT**

**LIPPERT**  
TECHNICAL INSTITUTE

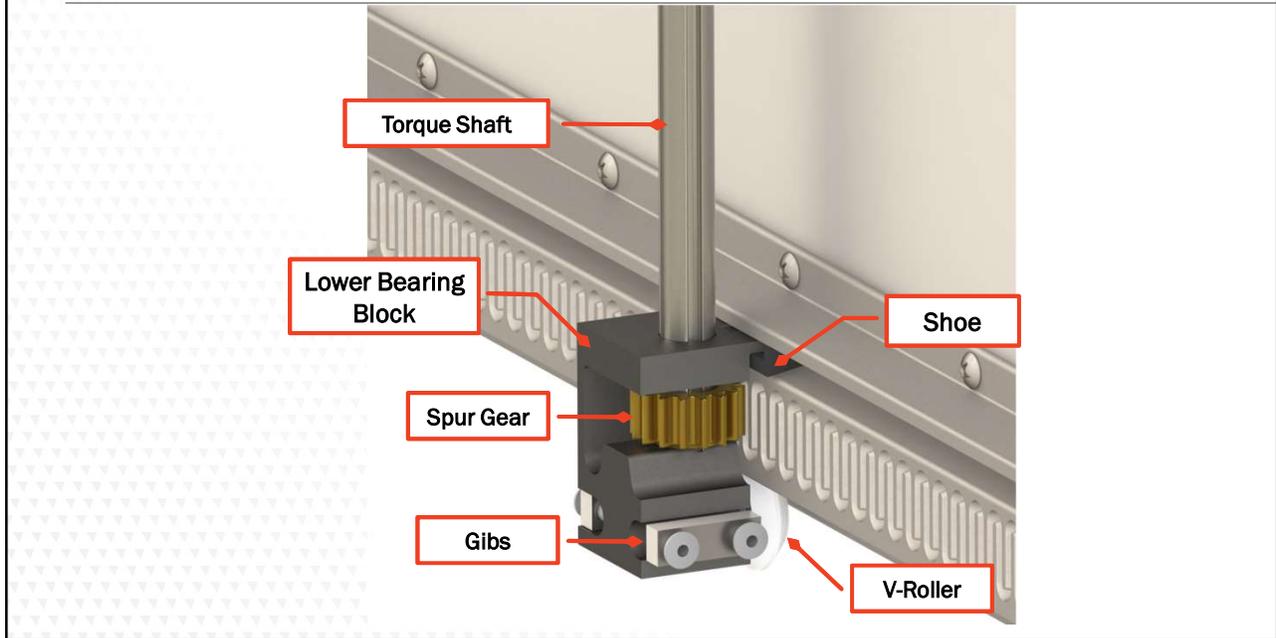
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## UPPER COLUMN ASSEMBLY

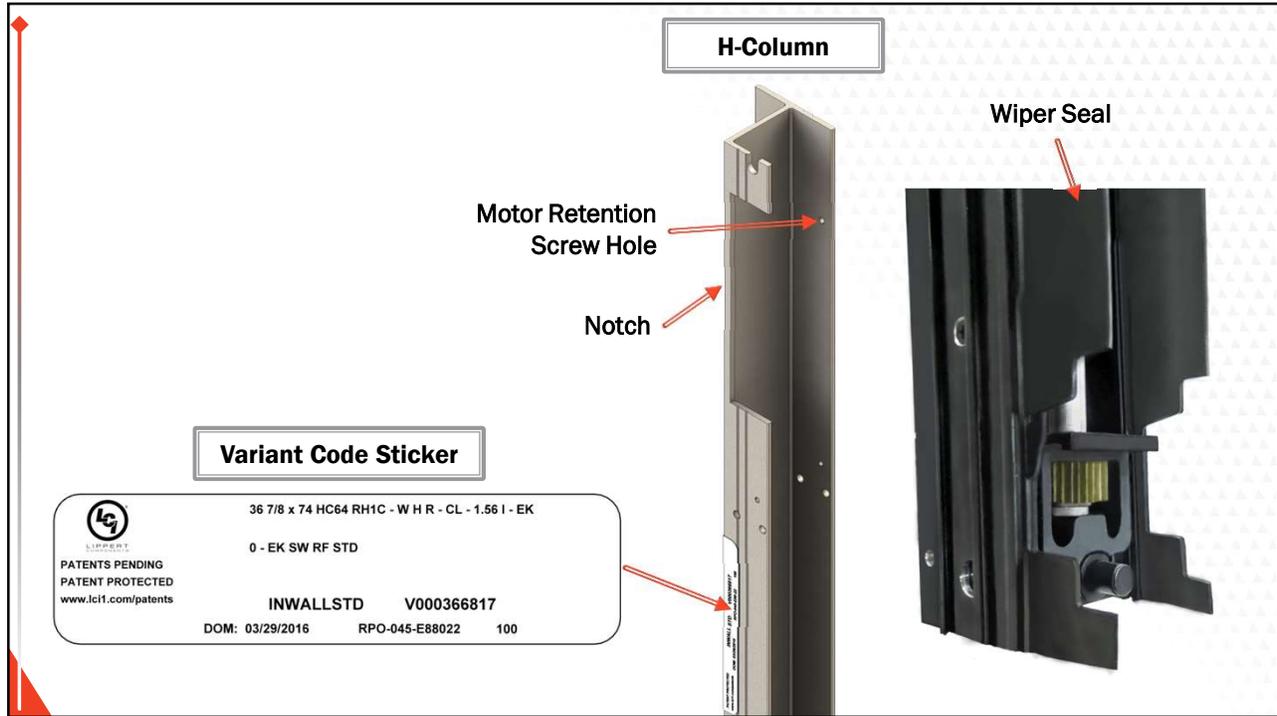


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## LOWER COLUMN ASSEMBLY



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## ERROR CODES

**Electronic Manual override**

- Mode Button: press 6x, hold on 7<sup>th</sup>
- Use switch to operate room
- To exit mode: press and hold mode button

**LED Error Codes**

Green LED    Red LED    Mode Button

**Dual Motor Synchronous Velocity Slide Controller**  
**PART # 13398-DO**

**FAULT INDICATION:**  
 GREEN LED: 1 BLINK - MOTOR 1  
 2 BLINKS - MOTOR 2

**RED LED:**  
 1 FLASH - FAULT  
 2 FLASHES - BATTERY CAPACITY LOW WARNING  
 3 FLASHES - LOW BATTERY  
 4 FLASHES - EXCESSIVE MOTOR CURRENT  
 5 FLASHES - MOTOR SHORT CIRCUIT  
 6 FLASHES - WIRE SHORT BETWEEN CONTROLLER AND MOTOR  
 9 FLASHES - HALL POWER SHORT TO GND

**HOW TO MANUALLY OVERRIDE:**  
 1. PRESS THE MODE BUTTON 6 TIMES AND HOLD DOWN ON 7th PRESS SWITCH LOCATED INSIDE COACH TO EXIT ROOM.  
 2. USE THE NORMAL SLIDE CONTROL SWITCH LOCATED INSIDE COACH TO RETURN TO ROOM.

**THIS IS NOT A USER SERVICEABLE DEVICE. FAULT CODES ARE FOR SYSTEM DIAGNOSTICS ONLY. TAMPERING WITH THIS CONTROL WILL VOID WARRANTY.**

**J3 - MOTOR 1:** OUT 1, OUT 2, HALL PWR, HALL GND  
**J6 - SWITCH:** EXT, RET  
**J2 - MOTOR 2:** OUT 1, OUT 2, HALL PWR, HALL GND

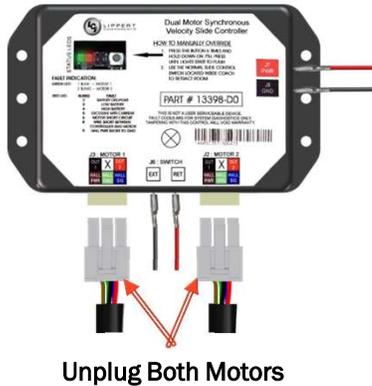
Flashes	Name	Description
2	Battery Drop Out	Battery capacity low enough to drop below 6 volts while running or short in switch wiring.
3	Low Battery	Voltage below 8 volts at start of run.
4	High Battery	Voltage greater than 18 volts.
5	Excessive Motor Current	High amperage, also indicated by 1 side of slide continually stalling.
6	Motor Short Circuit	Motor or wiring to motor has shorted out.
8	Wire Short Between Controller and Motor	Encoder is not providing a signal. This is usually a wiring problem.
9	Hall Power Short to Ground	Power to encoder has been shorted to ground. This is usually a wiring problem.

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## MANUAL OVERRIDE

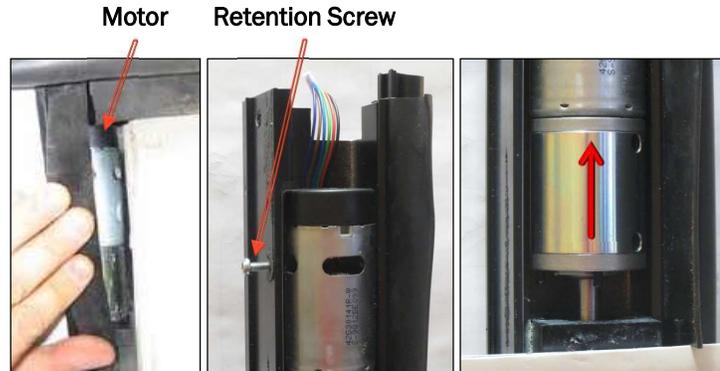
### Disconnect Motor Harness

- Locate controller.
- Unplug both harnesses
- Push or pull slide room in as desired
- Keep both sides of room relatively even.
- When room is completely in, plug both motors back into the controller.



### Disengage Motor

- Bend back wipe seal.
- Remove retention screw
- Pull the motor up until disengaged
- Repeat this process for both sides of the slide room.
- Push or pull room back
- \*Travel Lock\*



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## RE-SYNCHRONIZING MOTORS

1. Fully extend the slide room using the switch. Keep the switch engaged until the motors shut down on their own.
2. Retract the room 1-2 inches.
3. Repeat steps 1 and 2 until both motors shut down at the same time. In many cases, two or three repetitions are necessary to re-sync the system.
4. Fully extend the slide-out and keep the switch engaged until the motors shut down on their own. Fully retract the slide-out, again keeping the switch engaged until the motors shut down on their own. If both motors shut down at the same time at full extension and full retraction, the room is properly synchronized. If they do not shut down at the same time, repeat the process until they do.



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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.

# TECHNICAL SUPPORT



[www.Lippert.com](http://www.Lippert.com)



432-LIPPERT



[customerservice@lci1.com](mailto:customerservice@lci1.com)

