



POWER STEP 2.0  
OWNER'S MANUAL

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## Introduction

This manual provides instructions for operating the Lippert Power Step 2.0, which are equipped with a step lockout switch, control unit and permanent magnet motor onto a motorized coach.

The control unit is a current sensor as well as a switching device. When the motor assembly moves the step tread to its extended position, or stops moving because of an obstruction such as a curb or the binding of a damaged or bent step frame, the motor draws a larger amount of current. The control unit senses the larger current draw and shuts off the power to the motor.

Control units are equipped with an ignition override system. This system is designed so the vehicle will not be driven with the step in the extended position. When the step is locked in the extended position, the door closed, and the ignition is turned on, the ignition override system will engage and the step will automatically retract.

The Auto Extend feature is another safety feature designed to extend the step when the door is opened for the first time after the vehicle ignition is turned off, regardless of the position of the step switch.

**NOTE:** Refer to vehicle OEM owner's manual (or OEM Requirements) which will provide switch position of "on" or "off" for the step lock position.

Additional information about this product can be obtained from [lci1.com/support](https://support.lci1.com/support) or by downloading the free LippertNOW app. The app is available on Apple App Store® for iPhone® and iPad® and also on Google Play™ for Android™ users.

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For information on the assembly or individual components of this product, please visit:

<https://support.lci1.com/steps/>

**NOTE:** Images used in this document are for reference only when assembling, installing and/or operating this product. Actual appearance of provided and/or purchased parts and assemblies may differ.

## Safety

Read and understand all instructions before installing or operating this product. Adhere to all safety labels.

This manual provides general instructions. Many variables can change the circumstances of the instructions, i.e., the degree of difficulty, operation and ability of the individual performing the instructions. This manual cannot begin to plot out instructions for every possibility, but provides the general instructions, as necessary, for effectively interfacing with the device, product or system. Failure to correctly follow the provided instructions may result in death, serious personal injury, severe product and/or property damage, including voiding of the LCI limited warranty.

### **WARNING**

The "WARNING" symbol above is a sign that a procedure has a safety risk involved and may cause death or serious personal injury if not performed safely and within the parameters set forth in this manual.

### **WARNING**

Failure to follow instructions provided in this manual may result in death, serious personal injury and/or severe product and property damage, including voiding of the component warranty.

### **WARNING**

The coach **MUST** be supported per manufacturer's specifications before working underneath. Failure to do so may result in death or serious injury.

### **CAUTION**

The "CAUTION" symbol above is a sign that a safety risk is involved and may cause personal injury and/or product or property damage if not safely adhered to and within the parameters set forth in this manual.

### **CAUTION**

Always wear eye protection when performing service, maintenance or installation procedures. Other safety equipment to consider would be hearing protection, gloves and possibly a full face shield, depending on the nature of the task.

### **CAUTION**

Moving parts can pinch, crush or cut. Keep clear and use caution.

## Operation

### **WARNING**

If the vehicle is driven with the step in the extended position, there is the possibility of causing major damage to both the step and the coach. Always make sure that the step is fully retracted before traveling. If the step is left extended and strikes an obstruction while the vehicle is moving, major damage to both the step and the vehicle could result.

### **CAUTION**

Stepping on a partially extended step may cause damage to the step frame. Do not use the step until the step is fully extended.

### **CAUTION**

If the vehicle is driven with the step in the extended position, product and/or property damage may occur.

**NOTE:** If the yellow wire from the 4-way connector is **NOT** connected to an ignition power source, the ignition safety system will be inoperative and the step will remain in the extended position. In this case, the override switch **MUST** be turned off for the step to retract.

**NOTE:** If the yellow wire from the 4-way connector is not connected to an ignition power source, the step will **NOT** retract with the step in the override "on" position when the door is closed and the ignition is on.

1. Open the entrance door then turn the step override switch to the "off" position.
  - A. Close the door.
    - I. The step should retract and lock in the up position.
    - II. The under-step light will be off.
  - B. Open the door.
    - I. The step should extend and lock in the down position.
    - II. The under-step light will be on.

**NOTE:** The under-step light is on when the step is extended and off when the step is retracted. If the coach door/screen door is left open, the light will turn off after five minutes.

2. Turn the step override switch to the "on" position.
  - A. The step should remain in the extended position when the entry door is opened and closed.
  - B. The under-step light will turn off when the door is closed and on when the door is open.
3. With the step override switch turned on, the step extended and the entrance door closed, turn the vehicle ignition on.
  - A. The ignition override system will go into effect.
  - B. The step will automatically retract.

**NOTE:** If the yellow wire from the four-way connector is not connected to an ignition power source, the ignition safety system will be inoperative and the step will remain in the extended position. In this case, the step override switch **MUST** be turned off for the step to retract.

4. Turn the vehicle ignition off and open the door.
  - A. The step will extend and lock in the down position. This is the Auto Extend feature.
  - B. When the vehicle ignition is turned on, the step will activate with the door movement, regardless of the step override switch position.

# Wiring Diagram

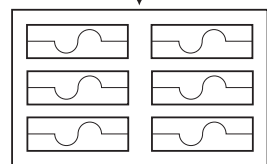
## Step Wiring

12 AWG green ground wire must be securely attached to the chassis for step to operate

**Fuse block IMPORTANT:**  
The yellow wire must go to a terminal marked IGN (ignition) or to another terminal that is hot when the ignition is turned on.

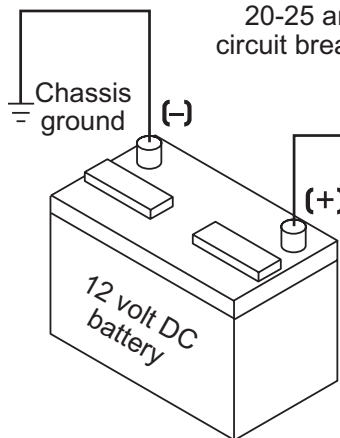
16 AWG purple optional step light switch may be connected to porch light switch

5-6 amp maximum fuse or circuit breaker required



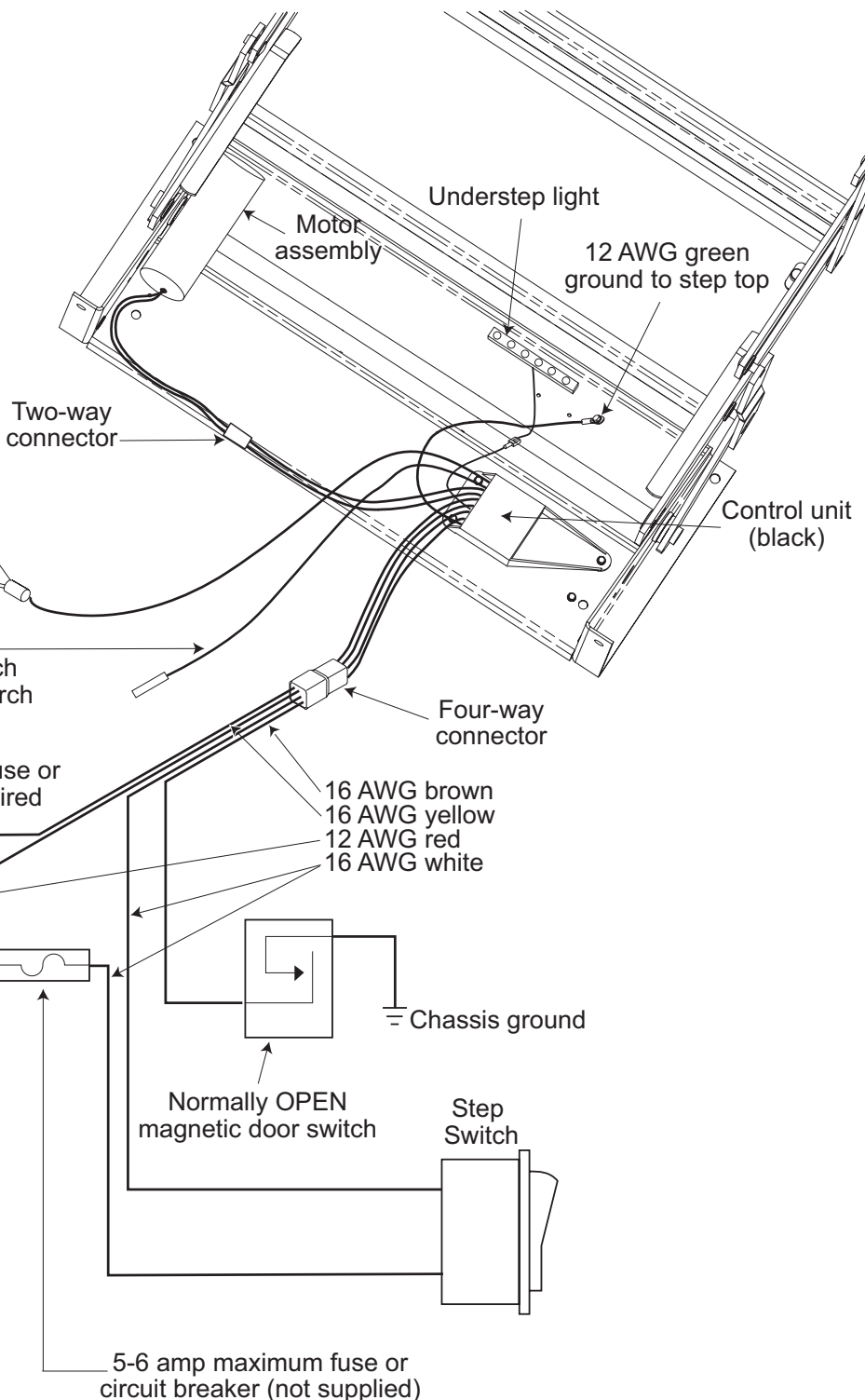
## Vehicle Wiring

20-25 amp fuse or circuit breaker required



Battery disconnect box/switch  
**IMPORTANT:**  
If the switch is 'OFF' the step will not operate.

5-6 amp maximum fuse or circuit breaker (not supplied)



## Troubleshooting

| What is Happening          | Why?                                                | What Should Be Done?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Battery drain.             | Step control unit not shutting off.                 | <ol style="list-style-type: none"> <li>1. Remove the 4-way and 2-way connector.</li> <li>2. Place a voltmeter between the red and yellow motor wires at the 2-way connector.</li> <li>3. Reconnect the 4-way connector.</li> <li>4. Turn the step lockout switch to the "on" position.</li> <li>5. If any voltage registers on the meter for more than five seconds, the control unit is not shutting off and may be defective.</li> <li>6. Switch the voltmeter leads back and forth between the red and yellow motor wires to make sure no voltage registers. <ul style="list-style-type: none"> <li>• If any voltage registers, disconnect the 4-way connector to keep the step motor from overheating.</li> <li>• If zero voltage is present, the control unit has shut off and is normal.</li> </ul> </li> </ol> |
| Step does not work.        | Low supply voltage.                                 | Check battery voltage and condition. <ul style="list-style-type: none"> <li>• Battery must have a no-load voltage of approximately 12.6 volts.</li> <li>• Make sure the battery connections are clean and secure.</li> <li>• Recharge or replace the battery, then retest the step for proper operation.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                            | Poor ground connections.                            | Clean and tighten all ground connections.<br>Inspect ground wires for cuts and nicks, replace as necessary.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                            | Step's control-to-vehicle ground connection lost.   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Step operates erratically. | Low supply voltage.                                 | Check battery voltage and condition. <ul style="list-style-type: none"> <li>• Battery must have a no-load voltage of approximately 12.6 volts.</li> <li>• Make sure the battery connections are clean and secure.</li> <li>• Recharge or replace the battery, then retest the step for proper operation.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                            | Poor ground connections.                            | Clean and tighten all ground connections.<br>Inspect ground wires for cuts and nicks, replace as necessary.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                            | Converter output inadequate.                        | Check converter output. Converter <b>MUST</b> be capable of producing a minimum of 30 amps for proper step operation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                            | Converter improperly filtered for clean DC voltage. | Contact converter manufacturer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## Maintenance

### Step Assembly Lubrication

Clean all mud, salt, and road grime from the step before lubricating. Lubricate all moving parts every 30 days with a good quality moisture and heat resistant penetrating grease.

**NOTE:** Silicone lubricants and WD-40® are not recommended for use. They evaporate and dry the mating surfaces, which leaves them vulnerable to the elements.

Maintain clean, dry electrical connections at the 2-way and 4-way connectors and any butt connections leading from the 4-way connector to the vehicle. A small dab of dielectric grease at the connections, and replacing corroded butt connections with heat shrink type crimp style automotive connectors, will help maintain a good electrical source for the step.

### Maintenance In A Salt Environment

When exposed to a salt environment, routinely spray the step with fresh water to maintain the step's finish.

## Notes

This image shows a full page of blank, lined paper. It features approximately 28 horizontal blue or grey lines spaced evenly apart, typical of notebook paper. The lines extend across the entire width of the page, leaving small margins at the top and bottom. There are no vertical lines, text, or other markings on the page.



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Follow proper safety practices. If in doubt, consult a professional RV technician.