



**SWAY COMMAND® 1.5**  
**BY TRAILAIR**  
**(JAYCO)(AU)**

**OEM INSTALLATION MANUAL**  
**L I P P E R T**  
**C O M P O N E N T S®**

# TABLE OF CONTENTS

|                                       |   |
|---------------------------------------|---|
| Introduction .....                    | 2 |
| Safety .....                          | 2 |
| Resources Required .....              | 3 |
| Installation .....                    | 4 |
| Mounting Controller .....             | 4 |
| Sway Command Wiring .....             | 6 |
| Sway Command Light Pod Mounting ..... | 6 |
| Testing the System .....              | 7 |
| Light Codes and Troubleshooting ..... | 8 |
| Notes .....                           | 9 |

## Introduction

The Sway Command® system is a self-contained caravan stability control module that detects undesirable caravan movement from external sensors and mitigates it by adaptively applying a variable braking voltage to the left and right caravan electric brakes.

The Sway Command® system uses sensors to detect excessive caravan sway. The system activates automatically and applies voltage proportional to the amount of sway detected to the electric caravan brakes. This dampens the sway and slows the caravan down. When excessive sway is detected, the light pod will blink red and the tow vehicle operator may feel the caravan brakes activate until the sway is dampened.

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

<https://support.lci1.com/sway-command-by-trailair>.

**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 and/or severe product and property damage, including voiding of the component warranty, 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**

**Do not submerge the caravan. The Sway command is not designed to be submerged under water (Water Crossing). Extended submersion could cause Non-Warrantable damage.**

### **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**

**Never drill into the Sway Command controller or compromise the pressure equalizer plug hole on the back of the controller. Doing so voids the warranty and could damage the controller.**

### **CAUTION**

**The Sway Command controller is water-resistant, but not waterproof. Do not spray high pressure water directly at the controller.**

### **NOTICE**

**All electrical wiring harnesses shall be loomed and secured to prevent possible damage and installed in accordance with best shop practices.**

## **Resources Required**

- Cordless or electric drill or screw gun
- Drive socket for a #14 hex self-drilling screw
- 5.5 mm drill bit
- Impact driver
- Torque wrench (Nm)
- Looming material
- Black saddle
- #14 - 10 x 25 mm hex self-drilling screw (corrosion resistant) (4)
- M6 x 11.0 x 0.7 external serrated washer (4)
- M8 x 25 mm square head wood screws (2)
- M8 x 18 x 12 mm self-drilling pan head screws (2)
- Paint marker/grease pencil
- EOL Vehicle Simulator box

# Installation

## Mounting Controller

The provided Sway Command controller module (Fig. 1) will be fitted within 152 mm (6 inches) of the centerline of the chassis, and to the right side of the center rail on the chassis, at the front of the chassis frame (Fig. 2A).

The controller must be mounted in a level condition, centered on the crossmember, and according to the orientation arrow on the label (Fig. 4A).

**Note:** The controller **MUST** be mounted facing the rear of the caravan (Fig. 2). The controller will not operate correctly if mounted improperly.

Fig. 1

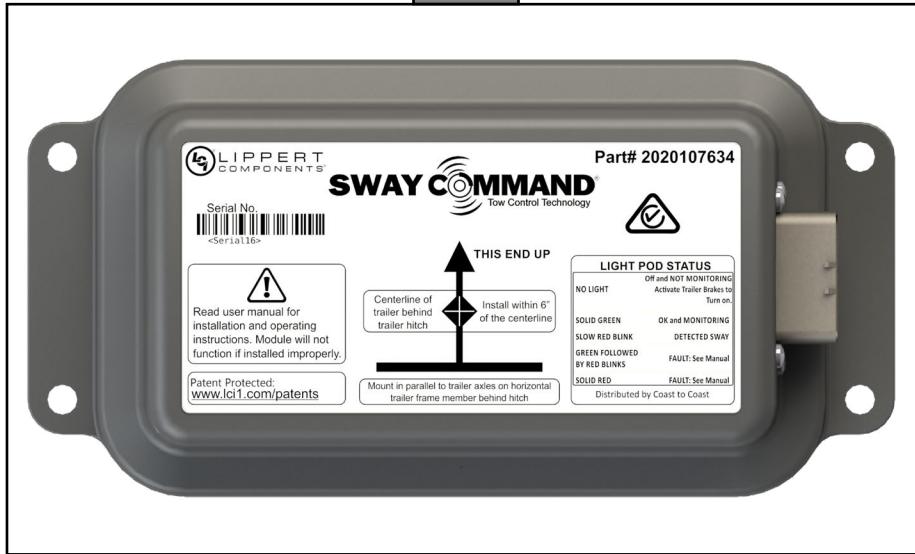
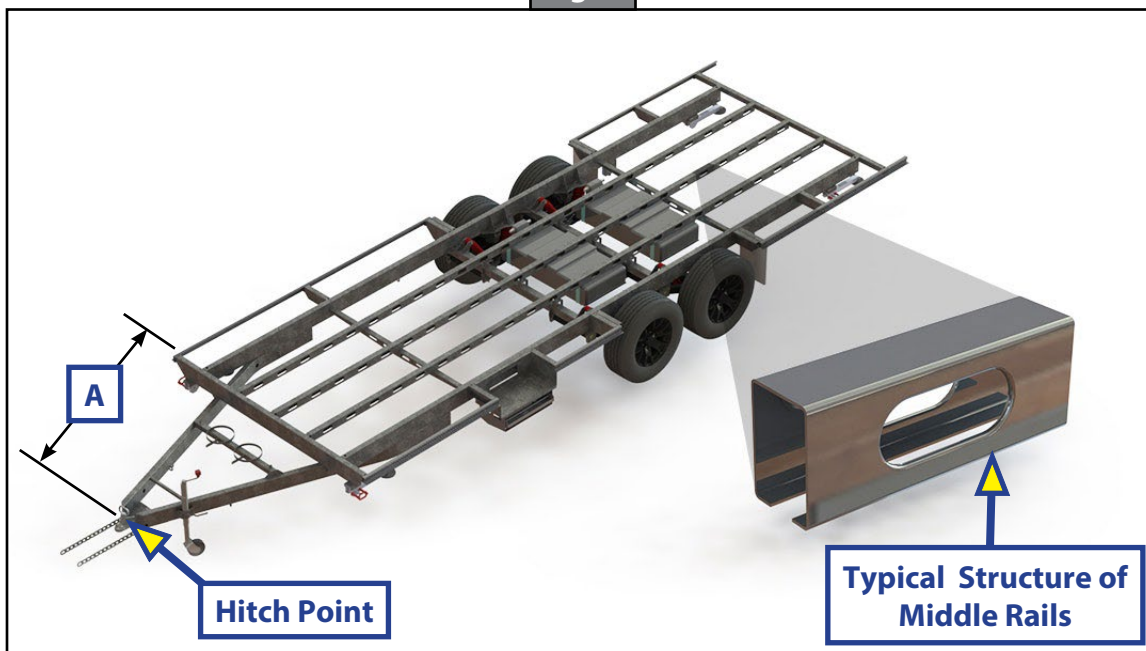


Fig. 2



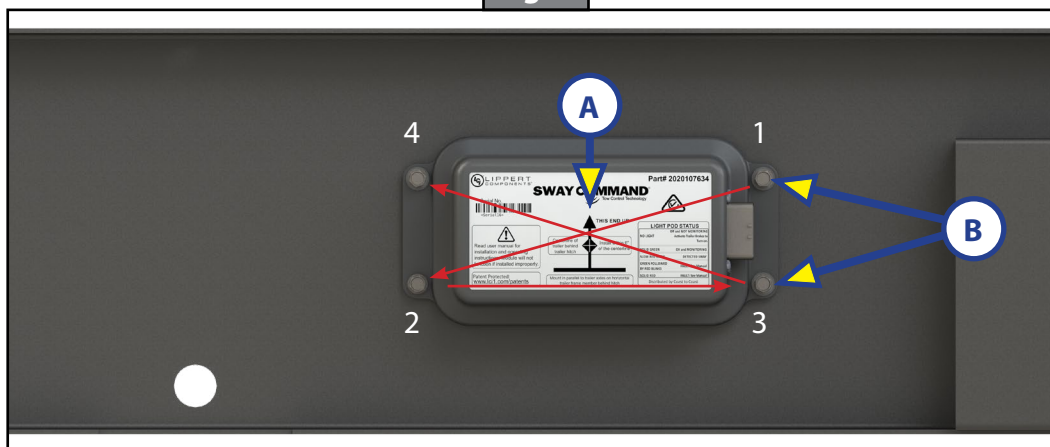
1. The controller (Fig. 1) must be mounted to a frame crossmember between 1219 mm - 3048 mm (4 ft - 10 ft) behind the hitch point (Fig. 3A).

**Fig. 3**



2. Prior to the floor being placed on the chassis, place the housing against the mounting surface. Use a paint marker or grease pencil to locate the four mounting holes for the Sway Command module (Fig. 4B).
3. Using a drill with the 5.5 mm drill bit, drill pilot holes through the crossmember at the four previously marked locations. Clear all chips from the mounting surface.

**Fig. 4**



4. After the holes have been drilled, insert M6 x 11.0 x 0.7 serrated external lock washers over each #14 - 10 x 25 mm self-drilling hex screw.
5. Insert assembled screws into the module as follows:
  - A. Insert one screw into the module and tighten half way to hold the module in place.
  - B. Insert a second screw into the opposite corner from the previously installed screw and tighten half way into the module to hold the module in place.
  - C. Insert a third screw into the open hole on the opposite end from the previously installed screw and tighten half way into the module.
  - D. Insert the fourth screw into the remaining open hole and tighten half way into the module.

6. Using an impact driver, securely fasten all screws using a crisscross pattern (Fig. 4) until screw heads are nearly flush against the lock washers.
7. Torque screws 10 - 12 Nm in the crisscross pattern shown in figure (Fig. 4).
8. Make sure the controller is level (parallel) with the front crossmember of the caravan frame.
9. Make sure controller orientation is correct (Fig. 4).

## Sway Command Wiring

### NOTICE

**All electrical wiring harnesses shall be loomed and secured to prevent possible damage and installed in accordance with best shop practices.**

The wiring harness (OEM-provided) can be routed at any time before post-installation testing, but can only be plugged into the brake loom after the brake loom has been routed.

**Note:** All wiring connections should be made at the caravan junction box according to local codes. LCI recommends the use of a 20A user-replaceable/sealed fuse between the junction box power connection and the black Sway Command power connection.

1. Plug the Sway Command loom into the axle loom connector.
2. Route the wiring harness from the controller module connector location to the front of the chassis frame where the controller module is mounted.
3. Secure the wiring harness every 300 mm (12 inches) to the vertical rail.
4. After the floor has been installed, but prior to testing, install an OEM-provided black saddle with two OEM-provided M8 x 18 x 12 mm self-drilling pan head screws to fasten the cable against the floor.

**Note:** Excess wiring shall be coiled up and secured within the rail such that it will not hang loose.

5. Insert the OEM-provided harness plug into the controller module's connector until it clicks into position.

## Sway Command Light Pod Mounting

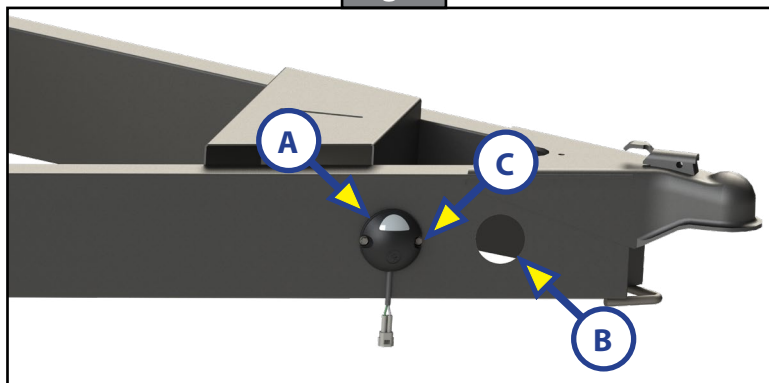
The light pod should be mounted in a location that can be easily seen by the tow vehicle operator. If the light pod is mounted to the A-frame of the caravan (Fig. 5), make sure it is mounted on the driver's side of the caravan for clear visibility. Optionally, the light pod can be mounted to the outside, front wall of the caravan (Fig. 6) and positioned for visibility by the tow vehicle operator.

**Note:** The light pod can be fastened to the A-frame at any time, but can only be connected after the A-frame loom has been routed.

### **Mounting the light pod on the A-frame:**

1. Determine the proper mounting location for the light pod.
2. Fasten the light pod (Fig. 5A) in place next to the A-frame loom hole (Fig. 5B) with two M8 x 18 x 12 mm self-drilling pan head screws (Fig. 5C).

**Fig. 5**



3. Connect the light pod to the OEM-provided electrical harness through the A-frame loom hole.

**Note:** The light pod wiring and connection point can be coiled into the cavity on the backside of the light pod for a cleaner appearance, if preferred.

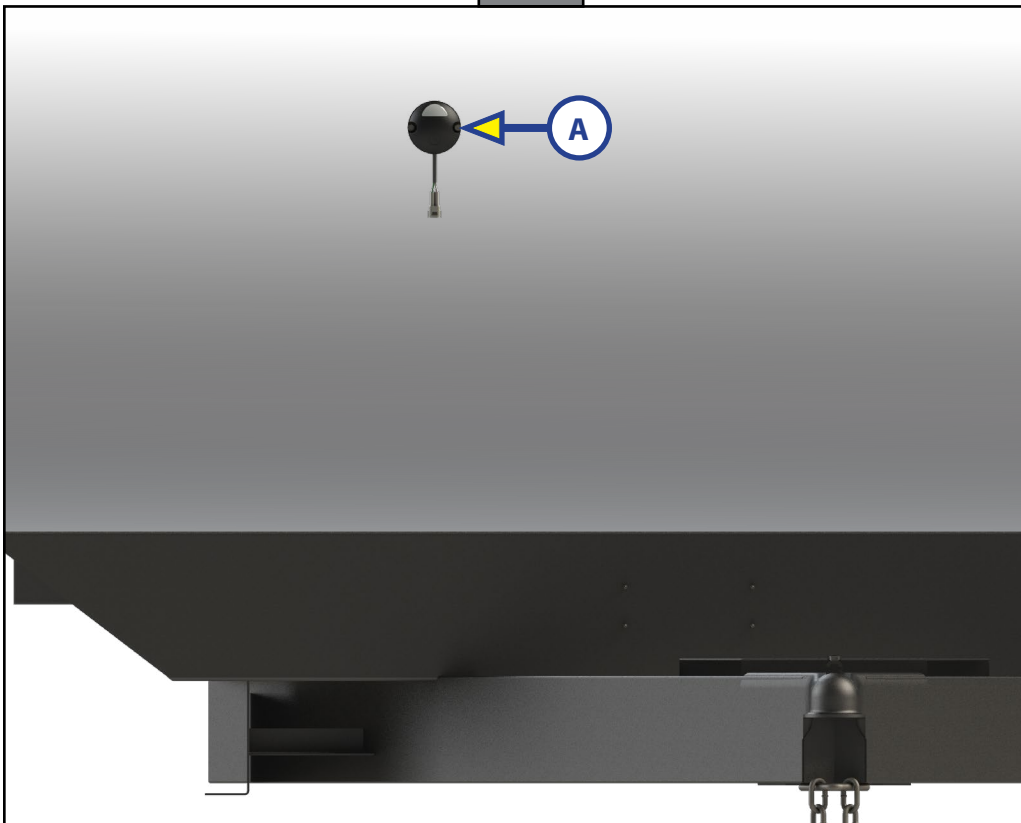
### Mounting the light pod on a caravan wall:

#### NOTICE

**All electrical wiring harnesses shall be loomed and secured to prevent possible damage and installed in accordance with best shop practices.**

1. Determine the proper mounting location for the light pod.
2. Attach the light pod (Fig. 6A) to the caravan wall with two M8 x 25 mm square head wood screws.
3. Connect the light pod to the OEM-provided main harness.
4. Make sure all wall penetrations are sealed to prevent water infiltration.

Fig. 6



### Testing the System

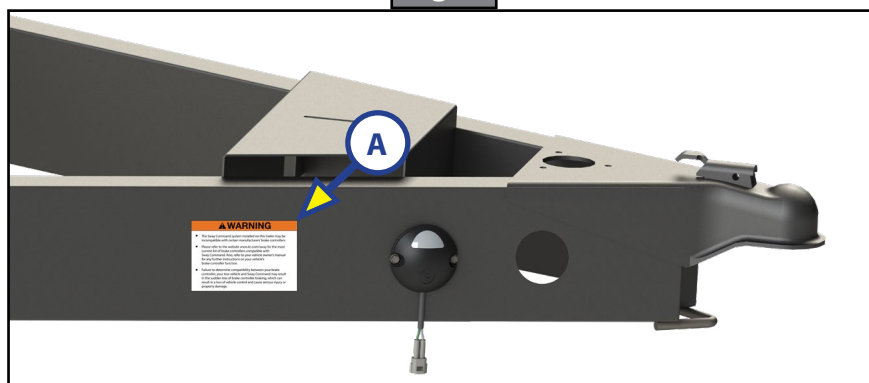
During the end-of-line (EOL) test phase, the OEM-provided Vehicle Simulator Box will be connected to the caravan. Do as follows:

1. Turn the Auxiliary supply on—the LED will turn green if the system is operating correctly. The LED will blink every five seconds. This is normal.

**Note:** Refer to the Light Code and Troubleshooting tables for additional information.

2. If the light pod is lit green, and no error codes are detected, place the Sway Command warning sticker (Fig. 7A) on the outside of the caravan's A-frame next to the light pod.

**Fig. 7**



## Light Codes and Troubleshooting

In the event a tow vehicle brake controller detects a fault after Sway Command detects a sway event, manually activate the tow vehicle brake controller a few times to clear the fault.

| What is happening?                                 | Why?                                                       | What should be done?                                                                                                                                         |
|----------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Off                                                | Sway Command is not powered and not active.                | Sway Command is in low power. Activate tow vehicle brake to wake up Sway Command.                                                                            |
|                                                    |                                                            | Sway Command is not connected to DC 12V power supply. Verify wiring.                                                                                         |
| Green, Red, Repeat                                 | Wake up self-checks in progress                            | After a few seconds, the Sway Command will complete self-checks, and set the lights green if Sway Command is ready, or a flashing code if an issue is found. |
| Green Solid                                        | Sway Command is awake and monitoring for sway.             | Every five seconds there will be a brief time the green LED turns off for a fraction of a second. This indicates Sway Command is functional.                 |
| Red Blink (1/2 second on, 1/2 second off, repeats) | Sway Command detected sway event and is activating brakes. | After sway subsides, light will return to green.                                                                                                             |
| Green, 2 Red                                       | A short to 12 volt detected                                | Verify blue brake wire not shorted to 12 volt.                                                                                                               |
| Green, 3 Red                                       | Not connected to caravan brakes.                           | Verify the blue brake wire is connected to the caravan brakes.                                                                                               |
| Green, 4 Red                                       | A short to ground detected.                                | Verify the blue brake wire is not shorted to ground or caravan frame.                                                                                        |
| Green, 5 Red                                       | Low voltage detected.                                      | Verify tow vehicle and tow battery are at 12 volts.                                                                                                          |
| Red Solid                                          | Sway Command is not functional.                            | Disconnect harness, wait 10 seconds. Connect harness.                                                                                                        |
| Red Fast Blink (100ms on, 100ms off, repeats)      | Sway Command is not functional.                            | Disconnect harness. Wait 10 seconds then connect harness. If light comes on solid red, unplug Sway Command and contact service department.                   |

## Notes

This image shows a full page of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page, typical of notebook or legal stationery. There are no margins, text, or other markings on the page.



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