



ANTI-LOCK BRAKING SYSTEM (ABS) (AU)

OEM INSTALLATION MANUAL

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Introduction

Anti-lock braking systems (ABS) are designed to improve stability of the caravan during severe braking events. The Lippert ABS control module monitors trailer wheel speed to detect wheel lock. In the event of wheel lock, the system seamlessly takes over trailer braking until the tow vehicle completes braking.

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.

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

<https://support.lci1.com/lippert-anti-lock-braking-abs-system>

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 Lippert 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.

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.

NOTICE

All electrical wiring harnesses shall be loomed and secured to prevent possible damage and installed in accordance with RVIA electrical standards.

Resources Required

- Cordless or electric drill or screw gun
- Appropriate drive bits
- Four M4 x 25 mm self-tapping screws
- Silicone sealant
- Utility knife

Installation

NOTE: This manual depicts a curbside installation but installation procedure is consistent with any mounting location. It is recommended installers dry fit the harnesses prior to installation to make sure there is adequate length to attach the harnesses to the sensors.

1. Using four self-tapping screws, attach control module to frame rail (Fig. 1). Module should be:
 - A. Located not more than 45 cm in front of the front axle.
 - B. Parallel with the top of the frame rail.
 - C. Mounted as level as possible.
 - D. Positioned with the harness receptacles toward the rear of the caravan.

NOTE: Identifying notices are included on the control module label to indicate mounting orientation.

2. Remove the two peel-off QR code stickers located on the control module (Fig. 1).
 - A. One sticker should follow the build sheet of the unit through production.
 - B. The second sticker should be placed in an interior cupboard or on support documentation to permit the end user to scan the QR code for the OneControl app connection.
3. Connect sensor harness to the control module and extend to the appropriate wheel speed sensors.

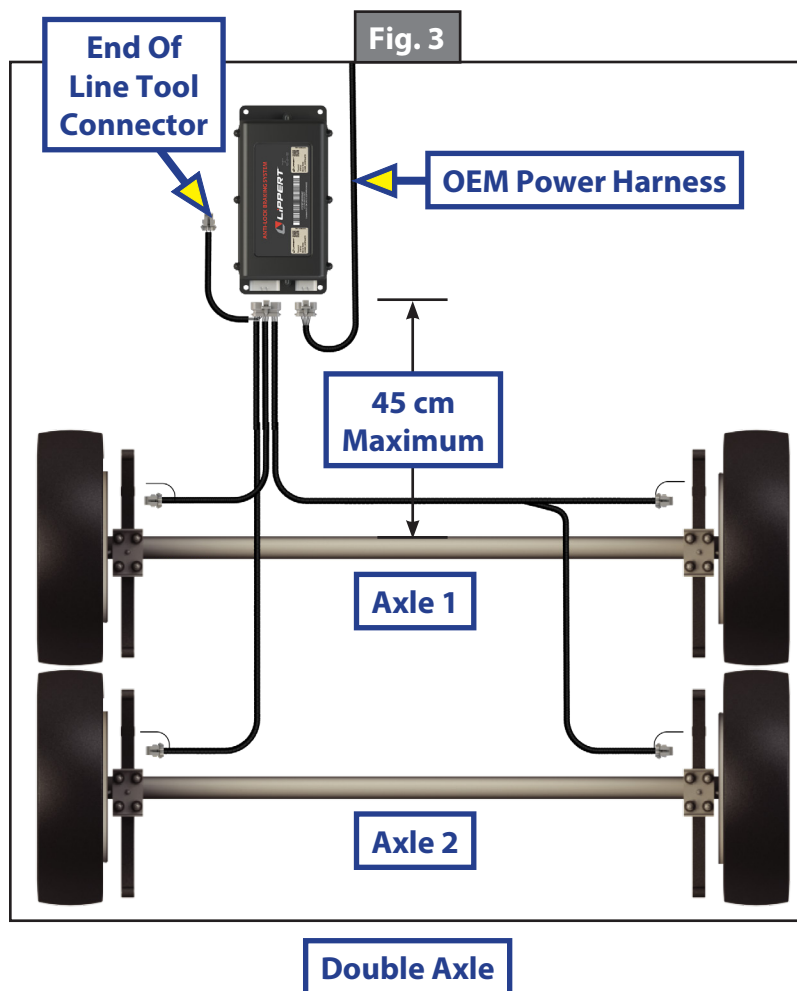
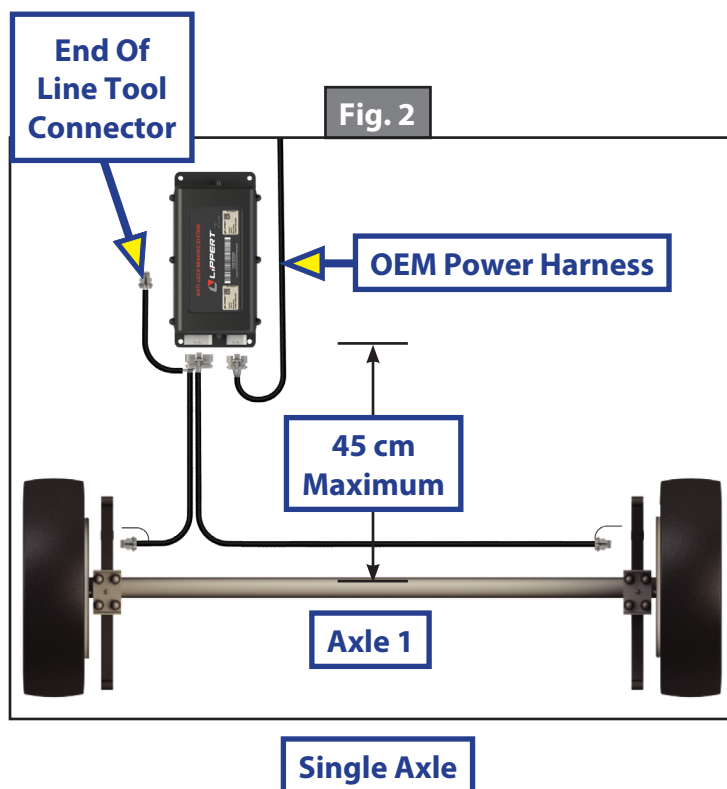
NOTE: The harnesses are fixed lengths, including shorter harnesses that connect to the curbside wheels and longer harnesses for the roadside wheels.



4. Route the harnesses to the wheel sensors through the typical frame cutouts and crossmembers. Install harnesses based on the length of each section and using the appropriate harnesses for single axle (Fig. 2) and double axle (Fig. 3).
5. Cut a slit in the underbelly near each brake hub and push the end of each sensor harness and brake power wire through this penetration.
6. Seal penetration with silicone sealant.

NOTE: OEM may secure harness with whatever means are used to secure other unit harnesses.

NOTE: An exposed connector at the module will be used to connect to an End of Line Tool to verify the system is functioning properly (Figs. 2 and 3).



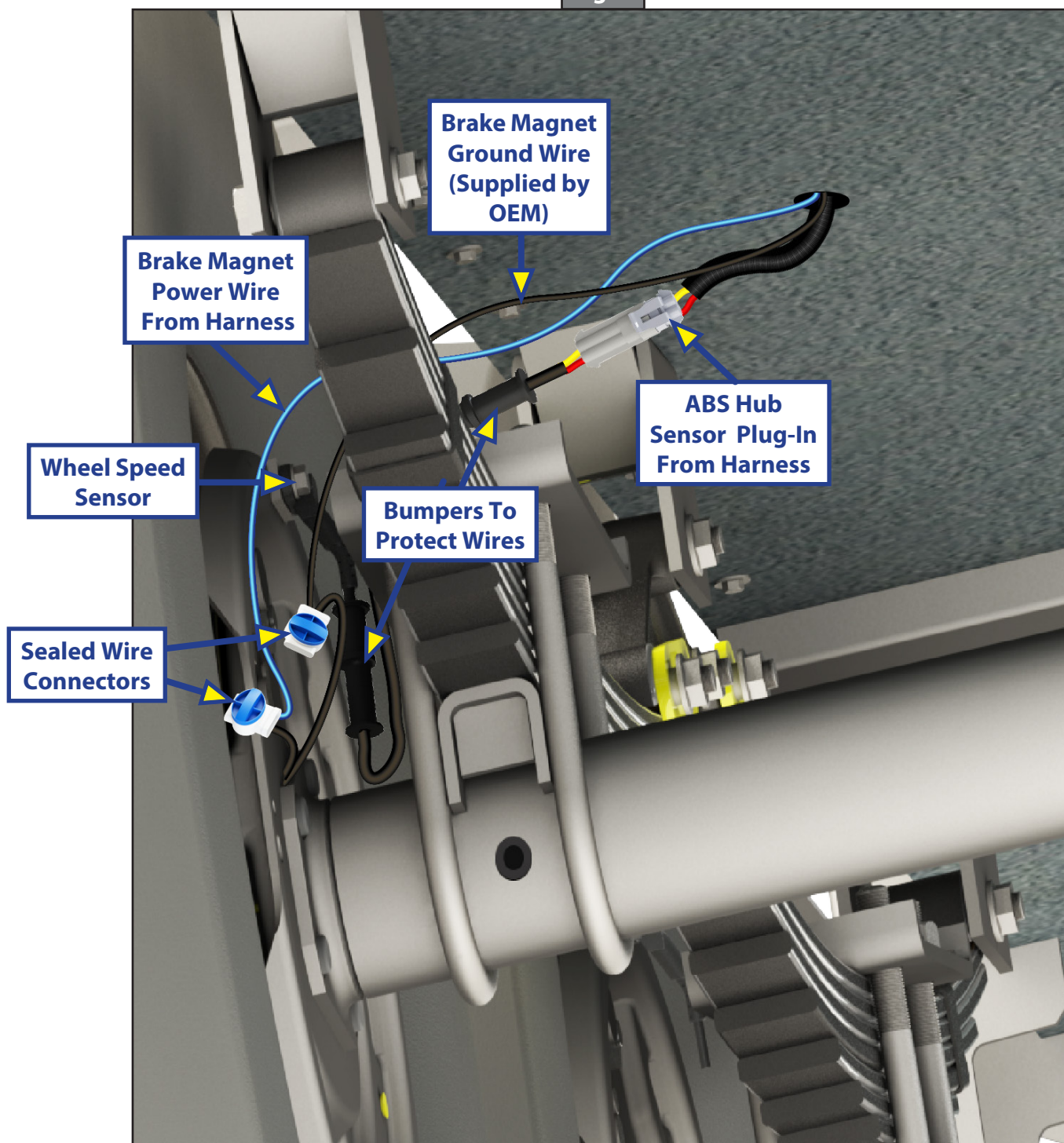
Harness Wire Colors				
	Curbside		Roadside	
Axle	Brake Magnet	Sensor Plug	Brake Magnet	Sensor Plug
Axle 1	Blue/Orange	Red/Orange, Orange	Blue/Green	Red/Green, Green
Axle 2	Blue/Yellow	Red/Yellow, Yellow	Blue/Violet	Red/Violet, Violet
Diagnostic harness: Pink, Brown				

7. Connect the harnesses to the wheel speed sensors by connecting the male and female connector ends together (Fig. 4).
8. Connect the brake power wire from the harness to one of the brake magnet wire leads on the back of the brake assembly (Fig. 4).
9. Connect the other brake magnet wire lead to the ground (Fig. 4).

NOTE: There are two bumpers that can slide along the harness to protect the wires (Fig. 4).

NOTE: Installations may look slightly different for custom applications.

Fig. 4



10. Connect the appropriate power harness to the control module port.
11. Route the OEM power harness along the frame so it terminates at the OEM power supply at the front of the frame.
12. After installation is complete, plug in the End of Line Tool to the diagnostic port to verify that wiring has been properly connected. Instructions for use are contained inside the tool case.

Notes

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



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