



ROAD ARMOR<sup>TM</sup>  
TANDEM AXLE EQUALIZER  
OEM INSTALLATION MANUAL

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## System Information

The Lippert Road Armor™ Equalizer features a new, stamped steel design integrating both time-proven natural rubber inserts and oil-impregnated bushings for a smoother movement. The Road Armor Equalizer was designed as a "drop-in" replacement for a standard equalizer setup, which means that there is no additional drilling or welding needed for installation.

For additional support on this product, please visit: <https://support.lci1.com/road-armor>

**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 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.**

### **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**

**Ensure that the trailer is properly supported before performing any trailer work. Follow the trailer manufacturer's recommendations for lifting and supporting the trailer. Use proper personal protective equipment.**

### **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.**

## Resources Required

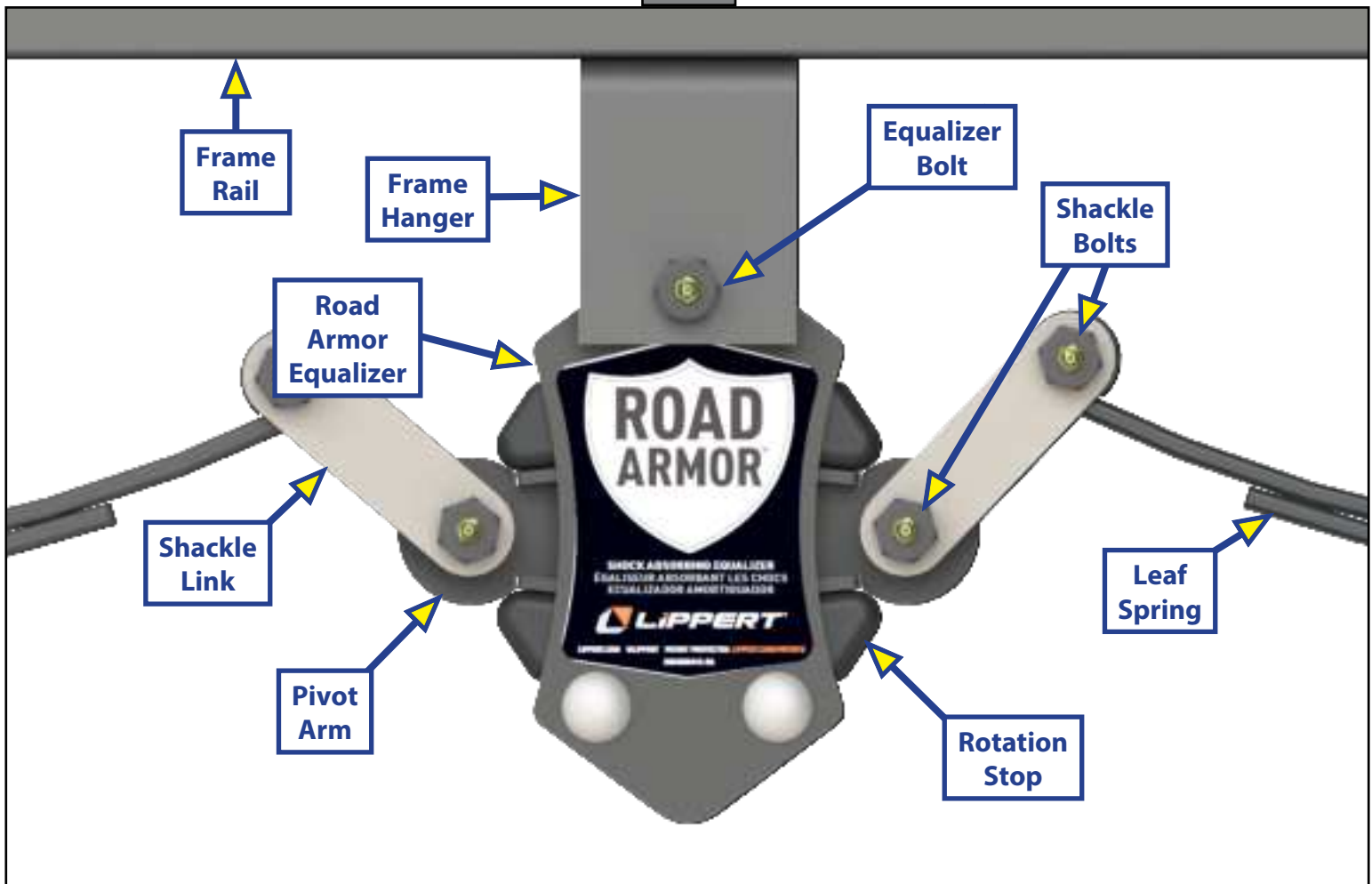
- 1 to 2 persons
- Pneumatic air or impact gun
- 1<sup>1</sup>/<sub>16</sub>" deep well socket
- 3<sup>3</sup>/<sub>4</sub>" deep well socket
- 1<sup>3</sup>/<sub>16</sub>" deep well socket
- Hammer
- Torque wrench (ft-lb)

## Installation

**NOTE:** Reference Fig. 1 for component clarification during installation.

1. Install the Road Armor Equalizer into the center frame hanger. The Road Armor Equalizer label should be facing out.
2. Install the equalizer bolt through the equalizer hanger outside plate, the top most bronze equalizer bushing, and through the equalizer hanger inside plate.

Fig. 1

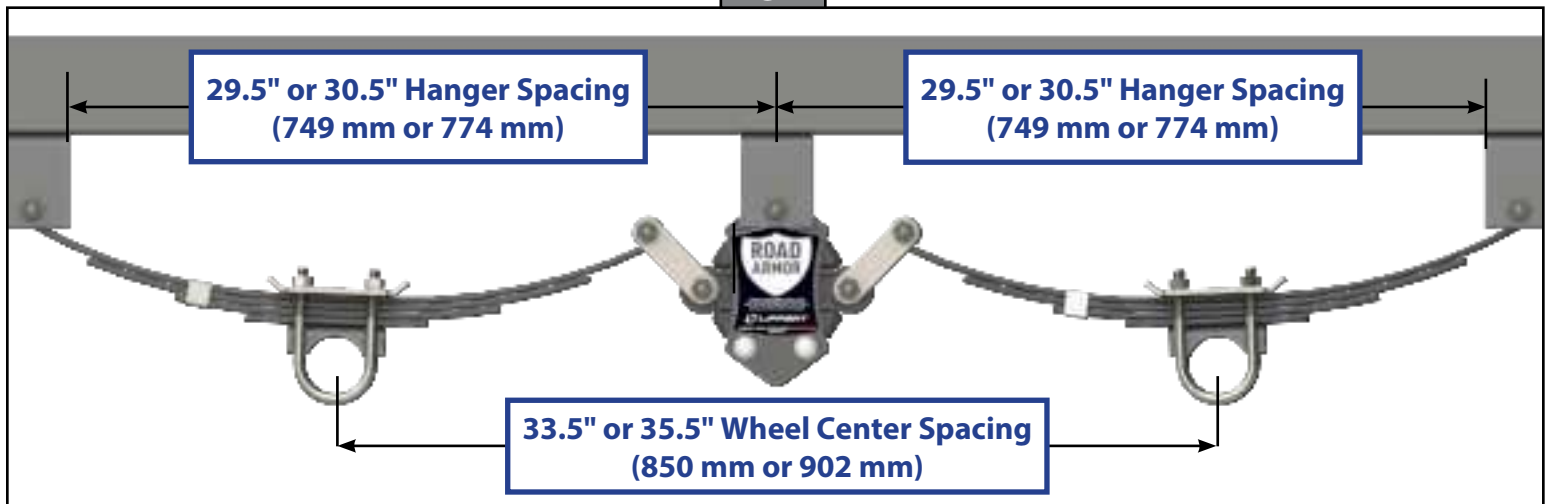


3. Use a hammer or a piece of steel tube (for bolts with a grease fitting) and drive the bolt into the equalizer hanger outside plate, until the bolt head is seated against the hanger surface.
4. Both the shackle bolts and equalizer bolt must be installed from the outside in toward the center of the trailer chassis. This ensures that the bolt threads do not interfere with any other assemblies. This applies to bolts with or without grease fittings.
5. Thread a nut onto the exposed equalizer bolt thread until the nut seats against the hanger. Tighten the nut until it bottoms out on the bolt shoulder at 30-50 ft-lbs (41-68 Nm).
6. Place the axles into the normal operating position.
7. Attach the new shackle links with shackle bolts and mounting nuts.

**NOTE:** The short shackle links (2.25" (57 mm) hole space dimension) will be used for 29.5" (749 mm) hanger spacing and the long shackle links (3.125" (79 mm) hole space dimension) will be used for 30.5" (774 mm) hanger spacing (Fig.2). Generally, the 33.5" (850 mm) wheel center spacing uses the short shackle links and the 35.5" (902 mm) wheel spacing uses the long shackle links.

8. Tighten the nuts until they bottom out on the bolt shoulder at 30-50 ft-lbs (41-68 Nm).
9. Lower the trailer chassis, axles and wheel assemblies evenly to the ground.
10. To ensure that the shackle links do not flip either up or down, lower the trailer with even weight distribution and without any jarring movements. The trailer **MUST NOT** be dropped to the ground.
11. The installation of the Lippert Road Armor Equalizer is now complete (Fig. 2).

Fig. 2



**NOTE:** The short shackle links (2.25" (57 mm) hole space dimension) will be used for 29.5" (749 mm) hanger spacing and the long shackle links (3.125" (79 mm) hole space dimension) will be used for 30.5" (774 mm) hanger spacing. Generally, the 33.5" (850 mm) wheel center spacing uses the short shackle links and the 35.5" (902 mm) wheel spacing uses the long shackle links.



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