



ROAD ARMOR[™] TANDEM AXLE
EQUALIZER BY TRAILAIR[®]
OEM INSTALLATION MANUAL

LIPPERT
COMPONENTS[®]

System Information

The Lippert Components, Inc. 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.

Safety Information



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.

Resources Required

- 1 to 2 persons
- Pneumatic air or impact gun
- 1¹/₁₆" deep well socket
- 3³/₄" deep well socket
- 1³/₁₆" 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.
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.
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" hole space dimension) will be used for 29.5" hanger spacing and the long shackle links (3.125" hole space dimension) will be used for 30.5" hanger spacing (Fig.2). Generally, the 33.5" wheel center spacing uses the short shackle links and the 35.5" wheel spacing uses the long shackle links.

8. Tighten the nuts until they bottom out on the bolt shoulder at 30-50 ft-lbs.
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 LCI Road Armor Equalizer is now complete (Fig. 2).

Fig. 1

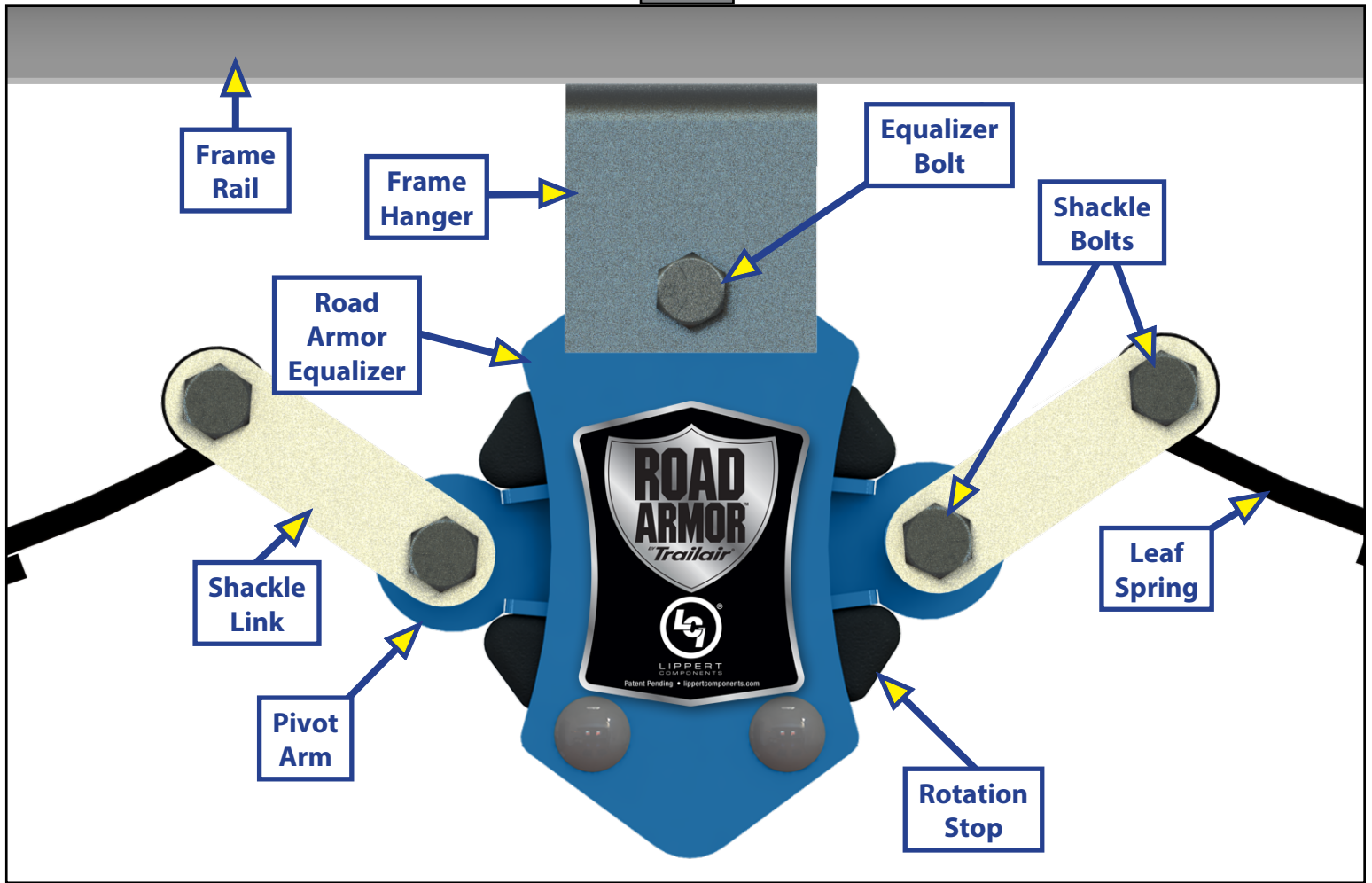
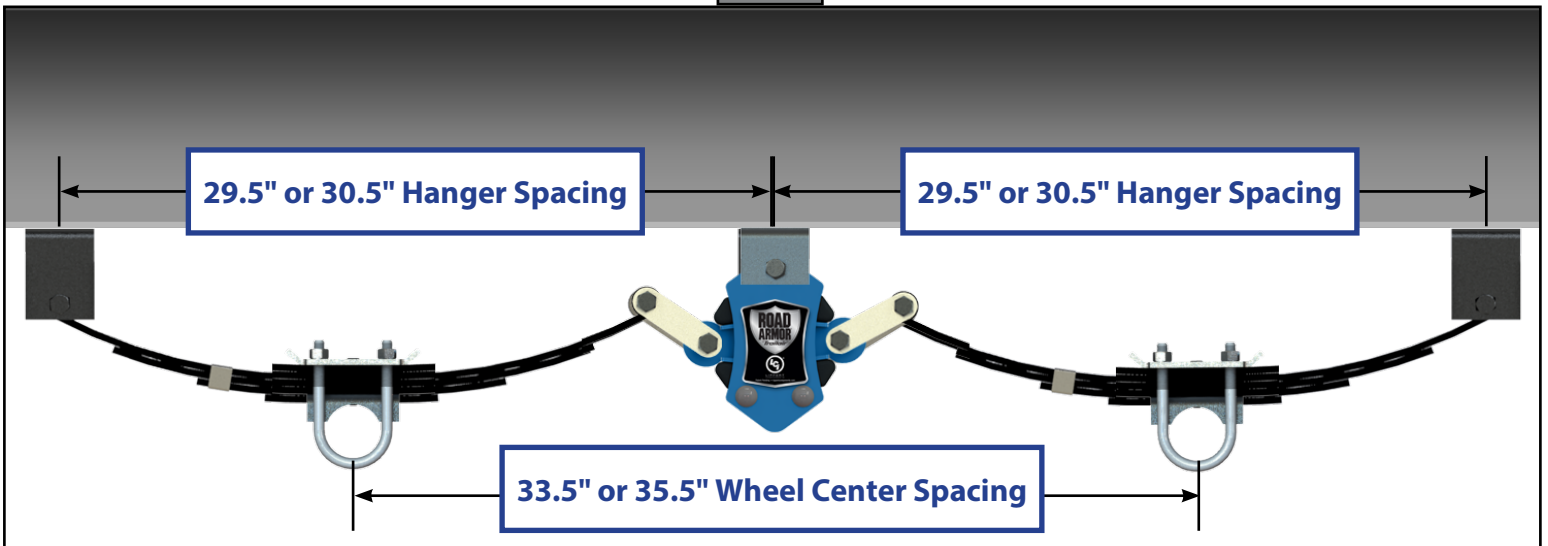


Fig. 2



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



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