



EQUA-FLEX[®]
TANDEM AND TRIPLE
OEM INSTALLATION MANUAL

L I P P E R T
C O M P O N E N T S[®]

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System Information

This manual provides installation instructions for the Lippert Component, Inc. Equa-Flex® rubberized equalizer system for tandem and triple axle trailers.

Tandem Axle Equalizer Options

There are two different Equa-Flex equalizer options for a tandem axle trailer; a tandem and a tandem greaseable. The tandem greaseable is dependent on bolts with grease fittings.

Triple Axle Equalizer Options

There are four different Equa-Flex equalizer options for a triple axle trailer; a long arm, a long arm greaseable, a short arm and a short arm greaseable.

The use of any triple axle Equa-Flex equalizer option is dependent on axle spacing. Trailers that measure 35" from the center of the first wheel to the center of the second wheel will use the 9.54" long arm triple axle Equa Flex equalizer option. Trailers that measure 33" between the center of the first wheel to the center of the second wheel will use the 8.67" short arm triple axle Equa Flex equalizer option.

The load rating range of Equa-Flex Equalizers is 3,500 - 8,000 lbs.

Safety Information

Read all instructions and safety labels before starting installation of this product.

WARNING

This safety label indicates that the following procedure may create a condition where severe product and/or trailer damage, serious personal injury or death may occur if stated precautions are not followed.

CAUTION

This safety label indicates that the following procedure may create a condition where product and/or trailer may be damaged and personal injury may occur if stated precautions are not followed.

WARNING

Incorrect raising or lowering of the trailer could result in death, serious injury, and or damage to the trailer.

CAUTION

Make sure 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

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

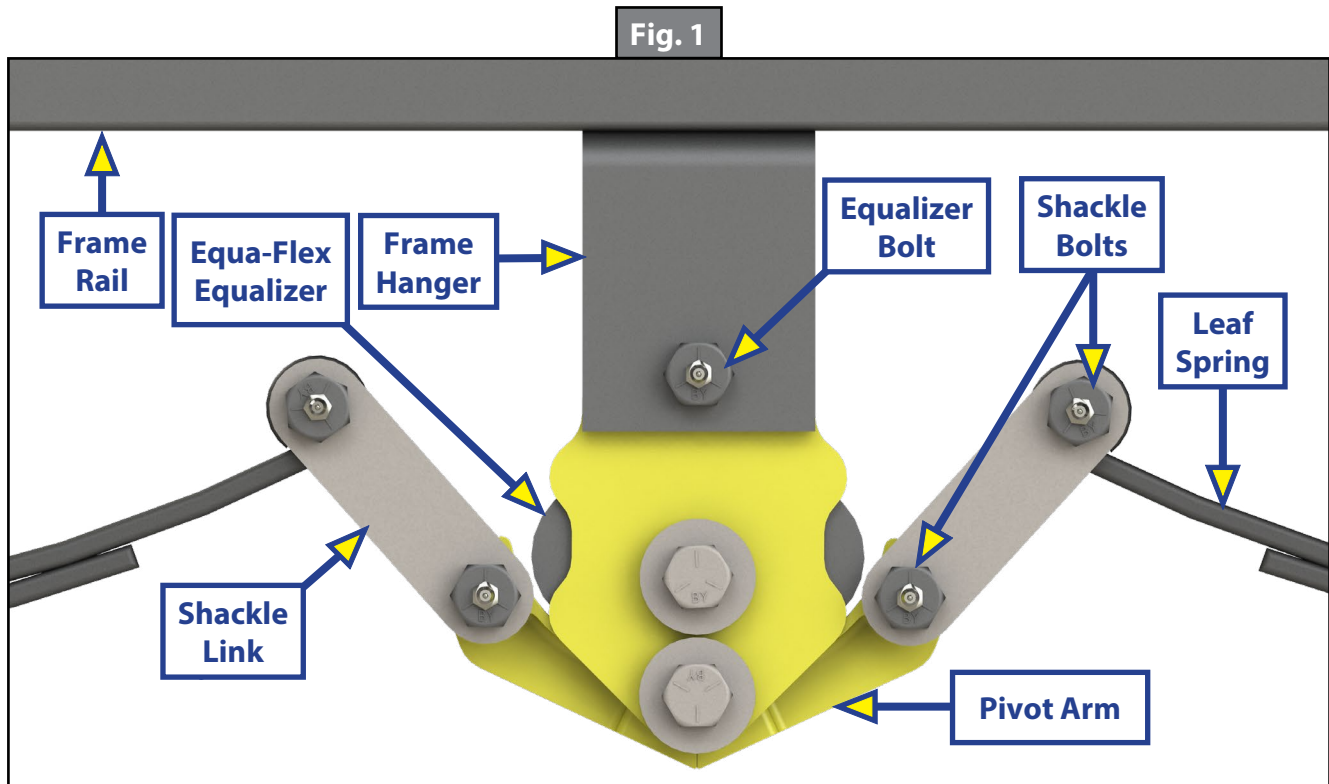
Resources Required

- 1 to 2 People, depending on task
- Pneumatic air or impact gun
- Torque wrench
- Cordless or electric drill or screw gun
- Appropriate drive bits
- 1¹/₁₆" Deep well socket
- 3³/₄" Deep well socket
- 1³/₁₆" Deep well socket
- Steel tube to install bolts with grease fittings
- Multi-purpose grease marked with a NLGI code of GC-LB
- Appropriately-sized and rated bolts and fasteners
- Hammer
- Vice to hold correct track cam plate to install bolts (optional)

Installation

Tandem Axle

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



1. Install the Equa-Flex Equalizer into the center frame hanger. The Equa-Flex 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 towards 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.

8. Tighten the nuts until they bottom out on the bolt shoulder at 30-50 ft-lbs.

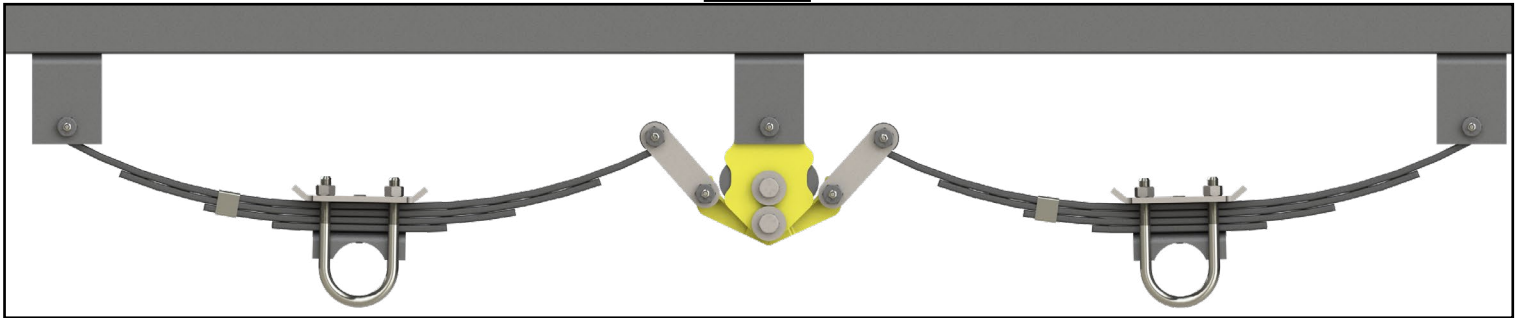
9. Repeat steps 1-8 for the opposite side of the trailer.

NOTE: If using the tandem axle greaseable bolts with grease fittings, use any multi-purpose grease marked with the NLGI code of GC-LB.

10. The installation of the LCI Equa-Flex Equalizer on a tandem axle trailer is now complete (Fig. 2).

NOTE: Lower the trailer evenly to the ground. Use care to avoid jarring movement. The trailer **MUST** not be dropped to the ground. Make sure the shackle links are upright and located approximately in the 10 o'clock and 2 o'clock position (Fig. 2).

Fig. 2

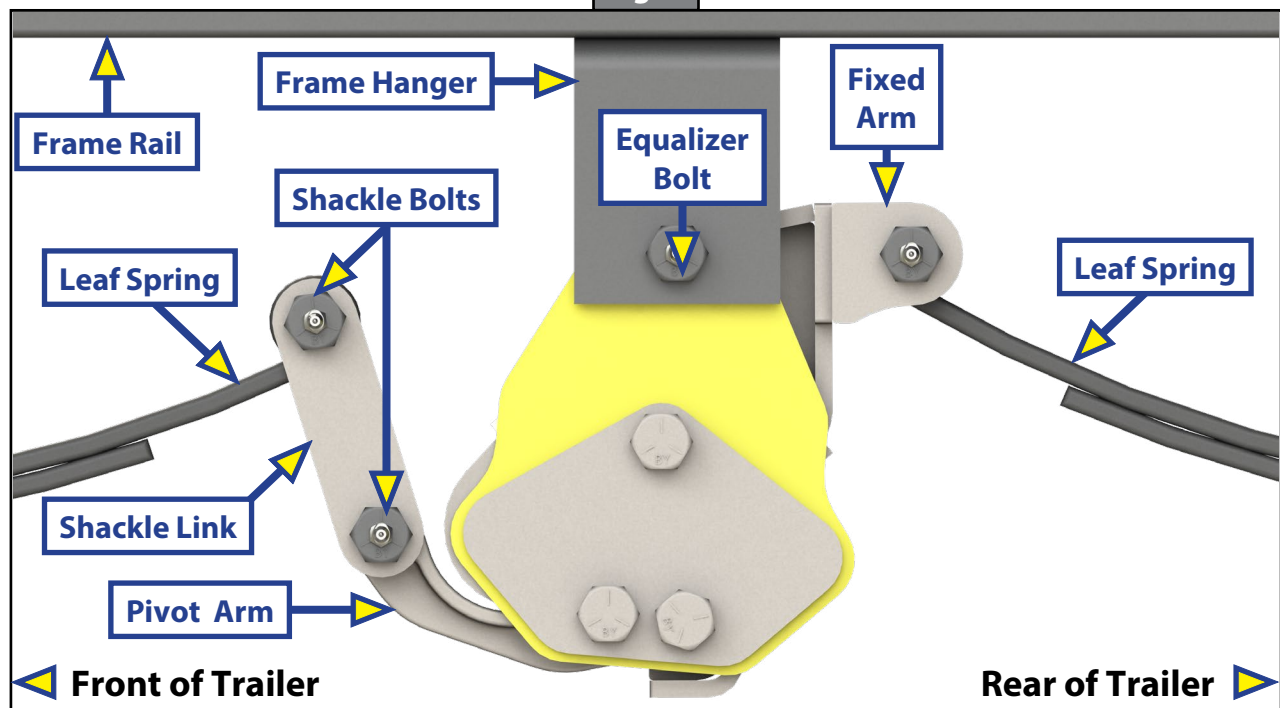


Triple Axle

1. Do steps 1-8 in the Tandem Axle section for the rear axles on both sides of the trailer.
2. Install the triple axle equalizer on the roadside hanger with the fixed arm (Fig. 3) facing the rear of the trailer and the Equa-Flex logo facing outward.
3. Install the equalizer bolt through the first bracket of the hanger, then through the topmost bushing of the Equa-Flex equalizer and, finally, through the second bracket of the hanger.
4. Use a hammer or a piece of steel tube (for bolts with grease fittings) and drive the equalizer bolt into the hanger. This will seat the serrations of the bolt against the hanger surface and provide resistance to rotation when tightening.

NOTE: The equalizer bolt must be installed from the outside in toward the center of the trailer chassis. This ensures the bolt threads do not interfere with any other assemblies. This applies to bolts with or without grease fittings.

Fig. 3



5. Install the nut onto the equalizer bolt until the nut seats against the shoulder bolt. Torque nut to 30-50 ft-lbs.

NOTE: When installing the equalizer bolt nuts, use a wrench to hold the bolt heads.

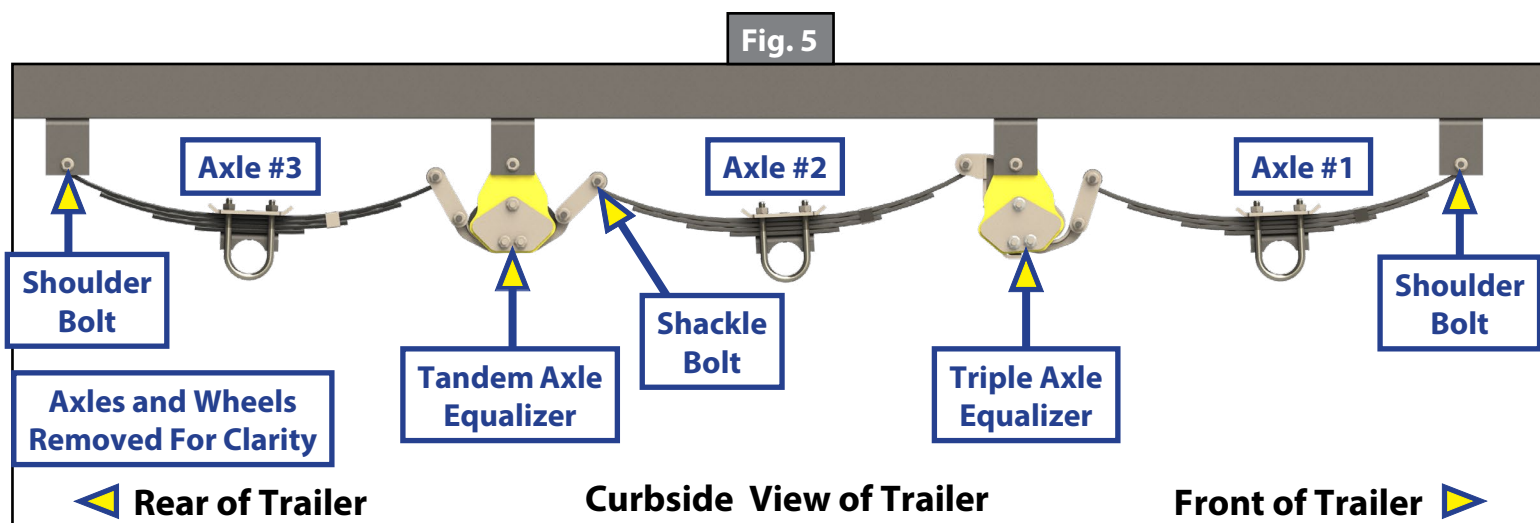
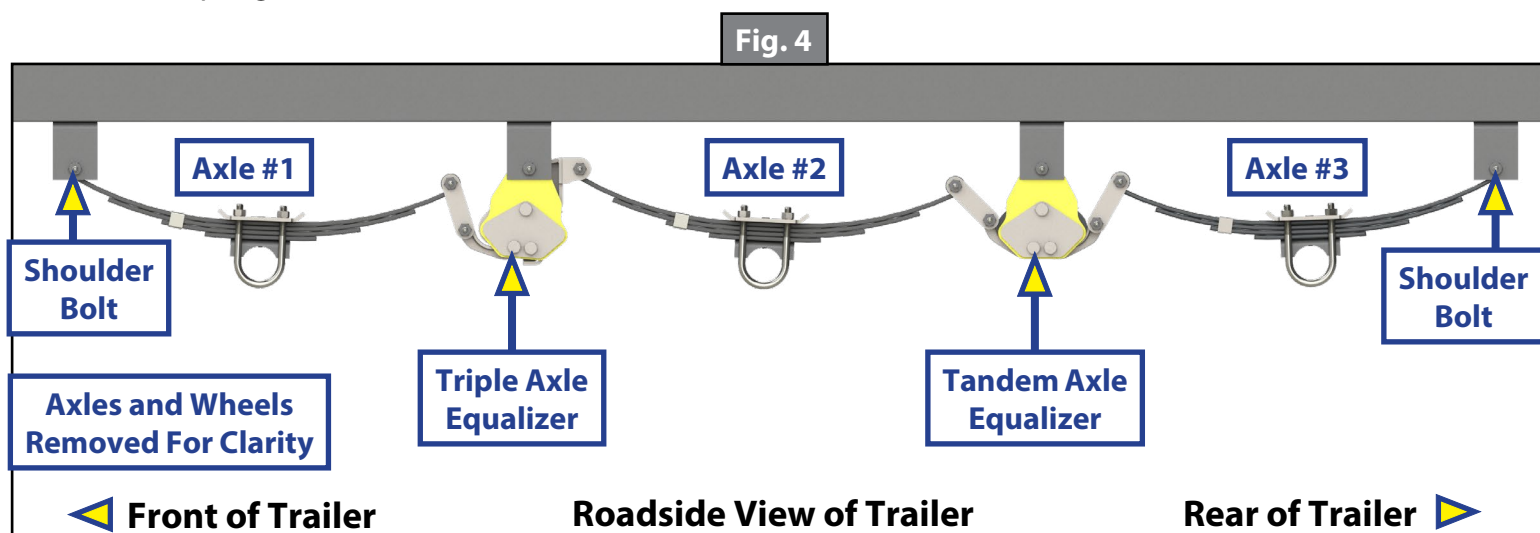
6. Repeat steps 1-5 for the opposite side of the trailer, making sure the fixed arm faces towards the rear. Reference Fig. 4, that illustrates a roadside installation, and Fig. 5, that illustrates a curbside installation, for the following procedural steps:

NOTE: When installing the nuts, use a wrench to hold the bolt heads.

7. For Axle #1 and Axle #3, attach the leaf springs to the hangers with shoulder bolts and nuts (Fig. 4).
8. For Axle #2, attach the leaf spring to the fixed arm of triple axle Equa-Flex equalizer configuration with shackle bolt and nut (Fig. 5), included within kit.

NOTE: A longer shoulder bolt **MUST** be used to attach the leaf spring to the Equa-Flex fixed arm.

9. For Axle #1, Axle #2 and Axle #3, attach all shackle links to the Equa-Flex pivot arm bushings and the leaf springs with shackle bolts and nuts.



10. Tighten all nuts until they bottom out on the shoulder bolt at 30-50 ft-lbs.

11. Repeat steps 7-10 for the opposite side of the trailer.

NOTE: If using the triple axle greaseable bolts with grease fittings, use any multi-purpose grease marked with the NLGI code of GC-LB.

12. The installation of the LCI Equa-Flex Equalizer on a triple axle trailer is now complete (Fig. 4 and Fig. 5).

NOTE: Lower the trailer evenly to the ground. Use care to avoid jarring movement. The trailer **MUST** not be dropped to the ground. Make sure the shackle links are upright and located approximately in the 10 o'clock and 2 o'clock position (Fig. 4 and Fig. 5).



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