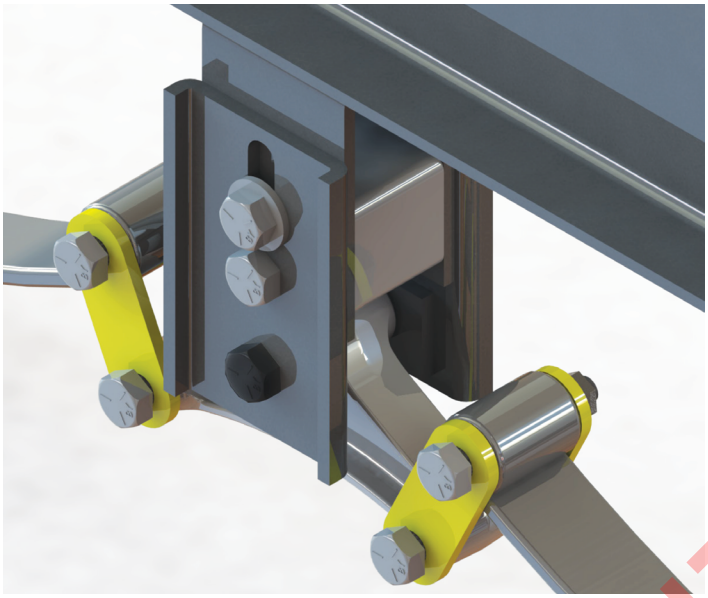
LIPPERT COMPONENTS®



Tandem Axle Lift Kit

Installation and Owner's Manual

(For Aftermarket Applications)

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Aftermarket Tandem Axle Lift Kit	
Part #	**Description**
407131	Tandem axle lift kit; provides 2" of suspension lift

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Introduction

The Lippert Component, Inc. Tandem Axle Lift Kit utilizes specialized plates to add approximately 2" of additional ground clearance to a tandem axle trailer. This allows for further unique trailer customization possibilities.

Additional information about this product can be obtained from lci1.com/support or by using the myLCI app. Replacement components can be ordered from https://store.lci1.com/ or by using the myLCI app.

The myLCI app is available for free on iTunes® for iPhone® and iPad® and also on Google Play™ for Android™ users. iTunes®, iPhone®, and iPad® are registered trademarks of Apple Inc. Google Play™ and Android™ are trademarks of Google Inc.

Safety

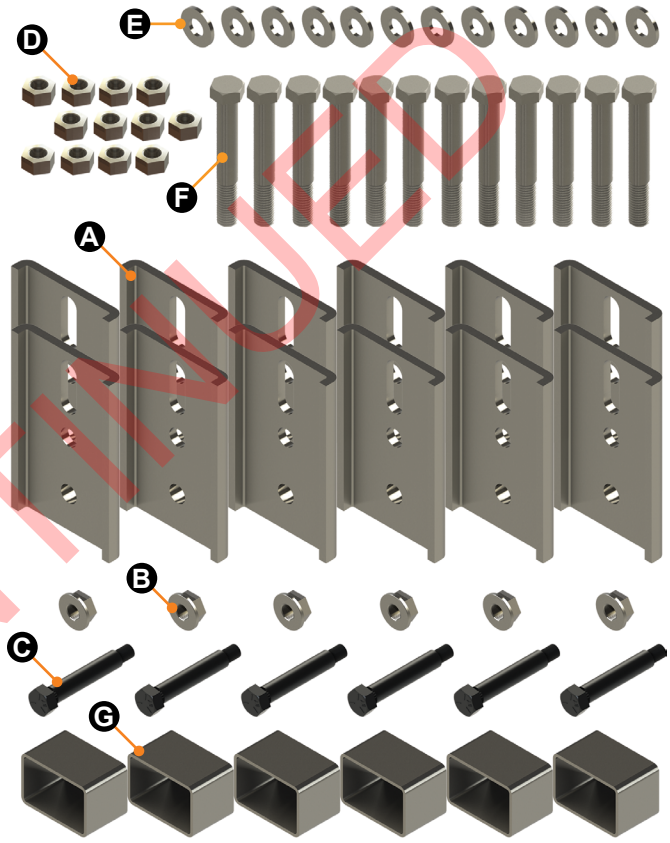
⚠ WARNING

THE TRAILER MUST BE SUPPORTED PER THE MANUFACTURER'S RECOMMENDATIONS BEFORE WORKING UNDERNEATH. FAILURE TO DO SO MAY RESULT IN DEATH, SERIOUS PERSONAL INJURY OR SEVERE PRODUCT OR PROPERTY DAMAGE.

⚠ CAUTION

MOVING PARTS CAN PINCH, CRUSH OR CUT. KEEP CLEAR AND USE CAUTION.

Parts List



Part # 407131 - Tandem Axle Lift Kit		
Letter	**Part #**	**Description**
A	290959	Lift kit hanger plate
B	122103	Flange nut, 7⁄16" - 20
C	271254	Shoulder bolt, 9⁄16" x 2.82" with 7⁄16" x 20 threaded end
D	125801	Nut, 9⁄16" - 18
E	140776	Washer, 9⁄16"
F	163535	Bolt, 9⁄16" - 18 x 4"
G	290967	Hanger spacer

NOTE: Use all new hardware provided in the kit. This lift kit will provide approximately 2" of suspension lift.

NOTE: Part numbers are shown for identification purposes only. Not all parts are available for individual sale. All parts with a link to the Lippert Store can be purchased.

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Prior to Installation

⚠ CAUTION

DO NOT USE LIFT KIT ON FRAMES WITH BOOT HANGERS OR WITH ANY HANGERS WHERE THE MINIMUM DISTANCE FROM THE I-BEAM TO THE MOUNTING HOLE IS LESS THAN 2 5/8". DAMAGE TO THE FRAME AND/OR HANGERS COULD RESULT.

1. Before beginning installation, verify the following:

The frame does not have boot hangers **(Fig.1)** or any hangers where the minimum distance from the I-beam to the mounting hole is less than 2 ⅝" **(Fig.2)**.

The existence of boot hangers or a shorter distance from the I-beam to the mounting hole would preclude the use of the lift kit.

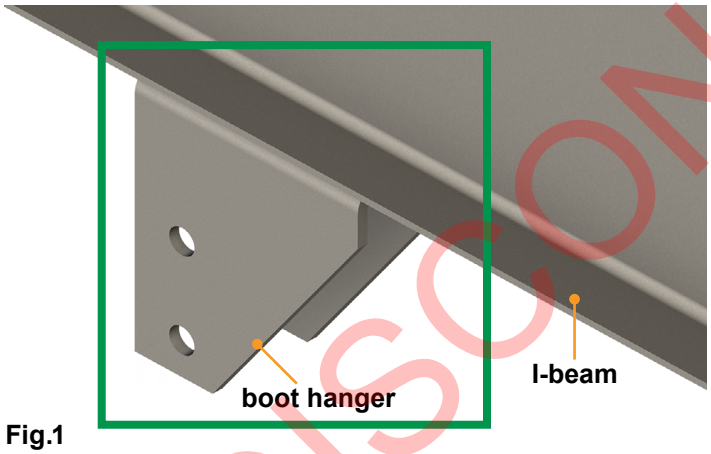

Fig.1

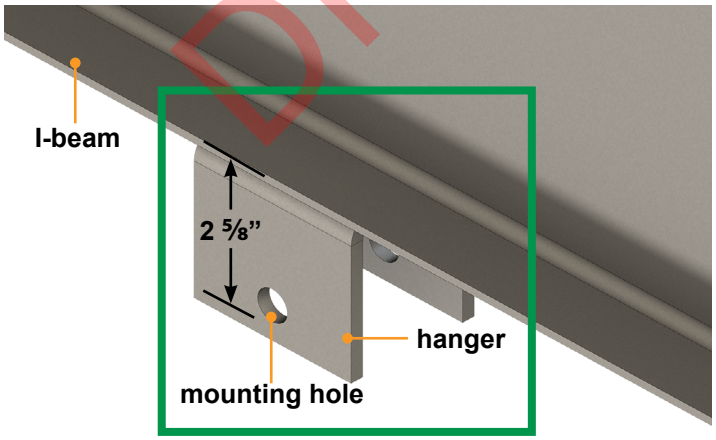

Fig.2

NOTE: Areas indicated by the green lines **(Figs.1 and 2)** highlight hanger examples on which the lift kit is not permitted to be installed.

Resources Required

- Alignment punch
- Cordless or electric drill or screw gun
- Appropriate drive bits
- 9⁄16" and ¼" drill bits
- 9⁄16" and 7⁄16" combination wrenches
- 9⁄16" and 7⁄16" sockets
- Torque wrench (ft-lbs)
- Clamp
- Floor jacks
- Jack stands

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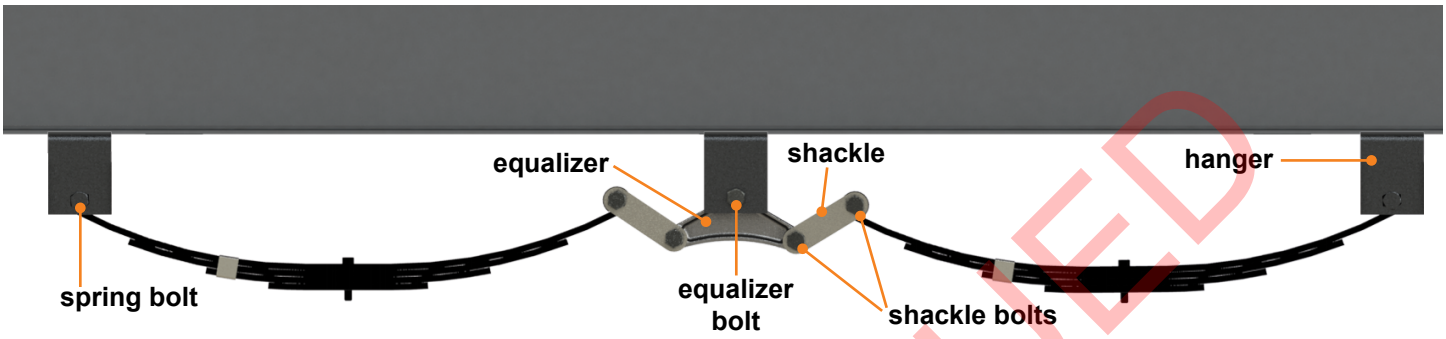

Fig.3

Preparation

NOTE: Do not lift the trailer by the axles. The axles were not designed as a viable lift point.

1. Using the properly-rated floor jack, lift the trailer according to the manufacturer's recommendations until the wheels are no longer in contact with the ground.

2. Support framework in accordance with the manufacturer's recommendations.

3. Remove the wheels and set aside wheels and lug nuts.

4. Use additional properly-rated floor jacks to support the axles. Remove the following as needed: leaf spring bolts (2), equalizer bolt (1) and shackle bolts (4) **(Fig.3)**. Lower the axles about 2".

5. Place the lift kit hanger plate on the outside of the hanger. Align the center hole of the plate with the bottom hole of the hanger **(Fig.4)**.

6. Make sure the sides of the hanger and the plate are aligned (use a speed square to ensure accuracy) and clamp the plate to the hanger.

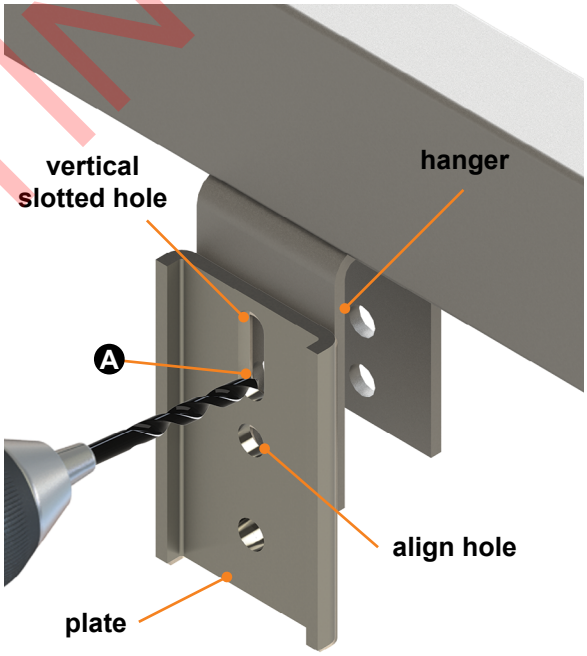

Fig.4

⚠ CAUTION

FAILURE TO CLAMP THE PLATE TO THE HANGER MAY ALLOW THE PLATE TO MOVE OR ROTATE DURING THE DRILLING PROCEDURE. THIS MOVEMENT MAY CAUSE PERSONAL INJURY OR PROPERTY DAMAGE.

7. Use a 9⁄16" drill bit as a guide to score the hanger at the bottom of the vertical slotted hole.

NOTE: Scoring the hanger ensures the 9⁄16" bolt will be properly located at the bottom of the vertical slotted hole.

⚠ CAUTION

WHEN DRILLING THE HANGER, DO NOT DRILL BOTH THE FRONT AND BACK OF THE HANGER AT THE SAME TIME.

⚠ CAUTION

DO NOT ATTEMPT TO DRILL THE PILOT HOLE IN THE BACK SIDE OF THE HANGER BY USING THE FRONT HOLE AS A GUIDE. THE PILOT HOLES MUST BE PERFECTLY ALIGNED OR THE PLATES WILL NOT FIT PROPERLY.

8. Use a ¼" drill bit to drill a pilot hole. Go through the vertical 9⁄16" x 1 5⁄8" slotted area into the hanger at the centerline of the scored marking **(Fig. 4A)**.

NOTE: The hole must be oriented to make sure when a bolt is inserted, it will seat against the bottom of the vertical slotted hole **(Fig. 4A)**.

9. Repeat steps 5-8 on the back side of the hanger.

10. Drill open the ¼" drilled holes to a diameter of 9⁄16".

NOTE: Installers may step up directly to a 9⁄16" drill bit or use a 3⁄8" drill bit prior to the 9⁄16" finished size.

11. Once the preparation is completed on one hanger, repeat steps 5-10 on the remaining two hangers.

Installation

⚠ CAUTION

OVERTIGHTENING THE NUTS CAN LEAD TO FASTENER FAILURE. THE TORQUE SPECIFICATION FOR THE 7⁄16" - 20 HEX LOCKNUT USED ON THE SHOULDER BOLTS IS 30-50 FT-LBS.

1. Place the lift kit hanger plates on the outside of the hanger. Insert the 1.875" x 3" x 2" spacer into the center of the hanger.

2. Align the center holes of the plates with the bottom holes of the hanger.

3. Insert a 9⁄16" x 4" bolt through the plates, the spacer and the hanger **(Fig.5)**. Install a nut on the back side.

4. Insert a 9⁄16" x 4" bolt and a washer through the upper slot, the hanger and the spacer. Install a washer and a nut on the back side of the hanger and plate assembly **(Fig.5 and Fig.6)**.

5. Repeat steps 1-4 on the remaining hangers.

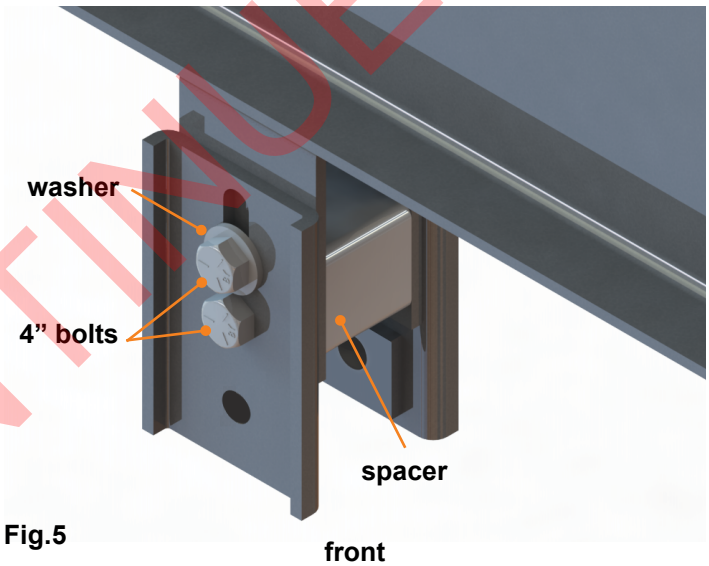

Fig.5

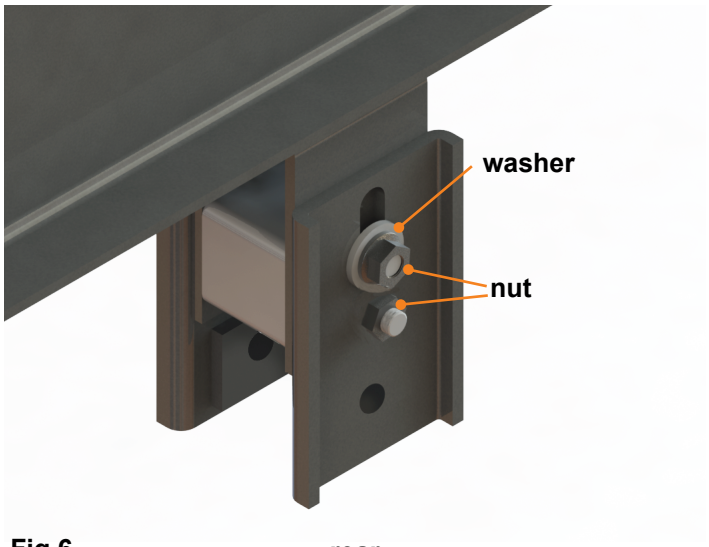

Fig.6

6. Bolt the equalizer assembly back into the new plate assembly using a 2.825" shoulder bolt (bolt length 3.375") and a flange nut to secure it **(Fig.7)**.

7. Torque the equalizer shoulder bolt and nut to 30-50 ft-lbs.

NOTE: The nuts should not be used to "pull" the shoulder bolts into the plate. Instead, the shoulder bolts should be driven into the plate assembly using a hammer. This will seat the serrations of the shoulder bolt and provide resistance to rotation when tightening.

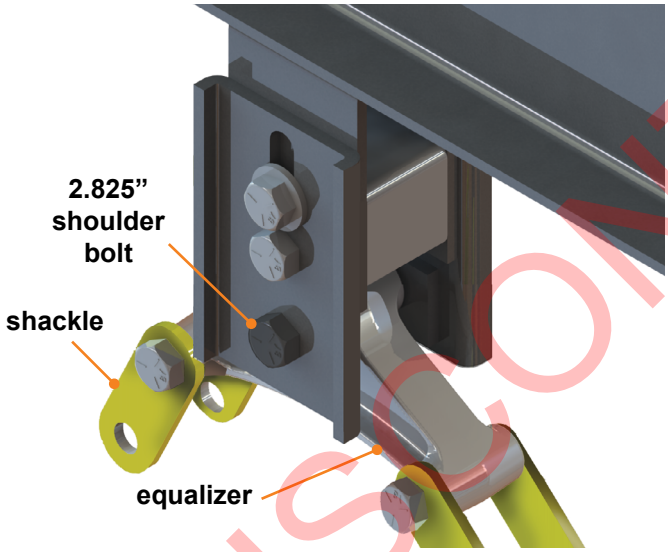

Fig.7

8. Use floor jacks to raise the axle, bringing the eye of the leaf spring back into the hanger **(Fig.8)** and/or equalizer/ shackle area **(Fig.7)**.

9. Bolt the leaf spring assembly together using a 9⁄16" x 2.825" shoulder bolt (bolt length 3.375") and a flange nut **(Fig.8 and Fig.9)**.

10. Torque the nut at the spring hanger.

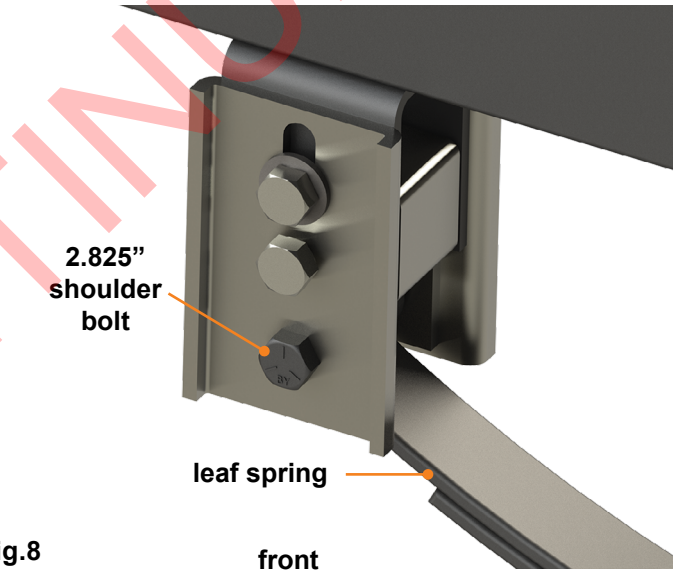

Fig.8

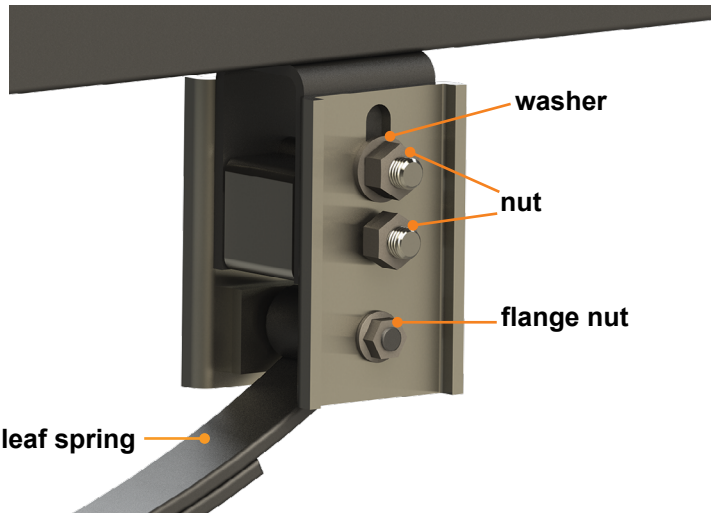

Fig.9

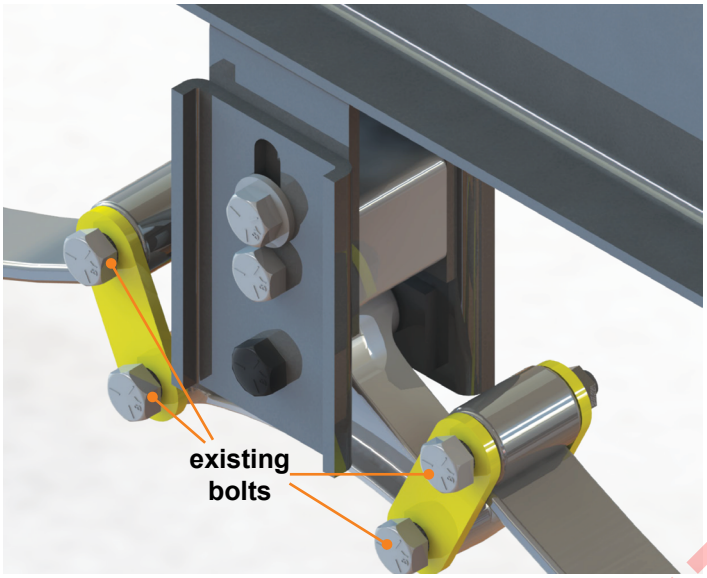

Fig.10

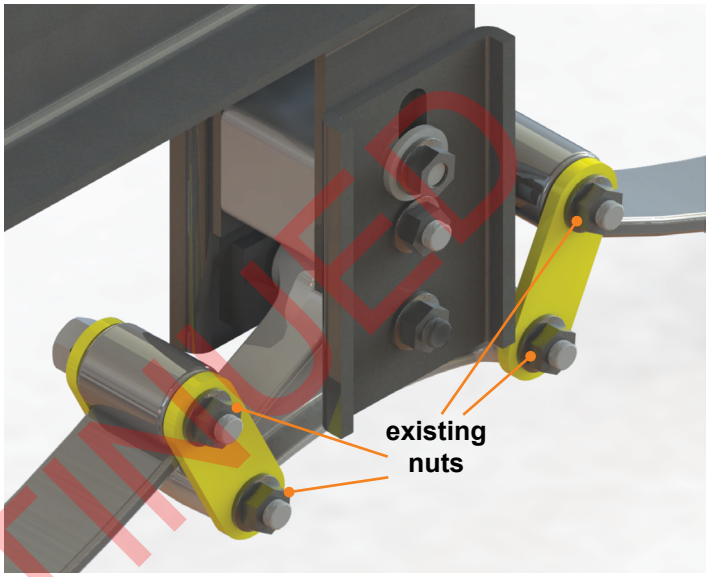

Fig.11

11. Bolt the leaf spring to the shackle, using existing bolts. Torque to manufacturer's recommendations **(Fig.10)**.

NOTE: If the shackles were removed from the equalizer, use existing bolts or replace as needed **(Fig.10 and Fig.11)**.

12. Repeat steps 8-11 on the remaining axle.

13. Verify that all hardware is tightened properly.

14. Install wheels and apply lug nuts in a star fashion and torque as per manufacturer's recommendations.

15. Remove the jack stands and lower the trailer evenly to the ground. Make sure the shackle links are upright and located approximately in the 10 o'clock and 2 o'clock positions **(Fig.12)**.

NOTE: To ensure the shackle links do not flip either up or down, lowering of the trailer must be with even distribution and without jarring movement. The trailer **MUST** not be dropped to the ground.

16. Repeat both the preparation steps 1-11 and installation steps 1-15 on the opposite side of the trailer.

17. Reference **Fig.12** for the completed installation of the LCI Tandem 2.0" Lift Kit.

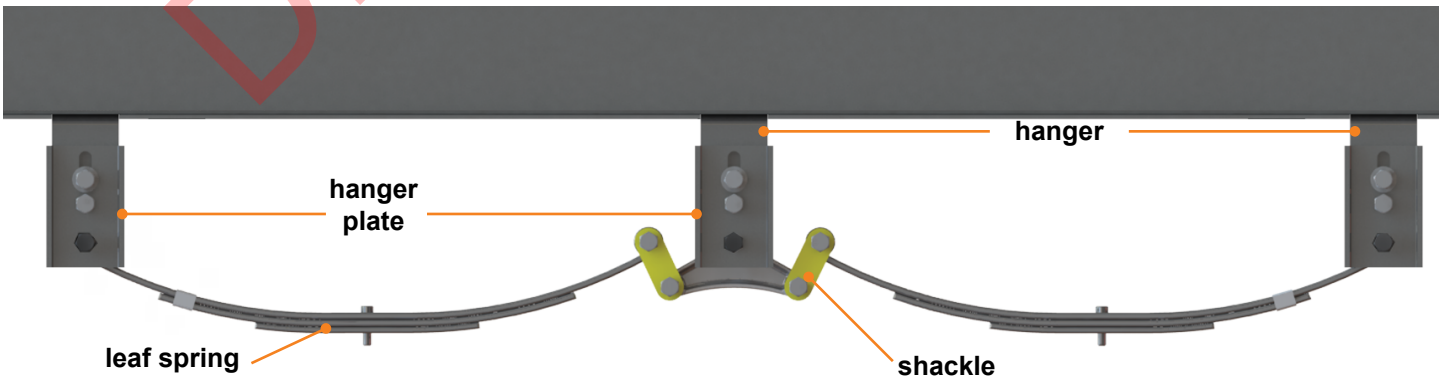

Fig.12

Notes