

## AXLES AND SUSPENSION

**Purpose**

This document describes the installation procedure for wet bolts.

**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**

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

**Recommended Resources**

- Alignment tool-spud wrench or bull pin or similar
- Floor jack
- Grease gun
- Rubber mallet
- Hammer
- Jack stands
- Pneumatic impact gun w/  $\frac{7}{16}$ ” impact socket

## AXLES AND SUSPENSION

## Prior to Installation

**⚠ WARNING**

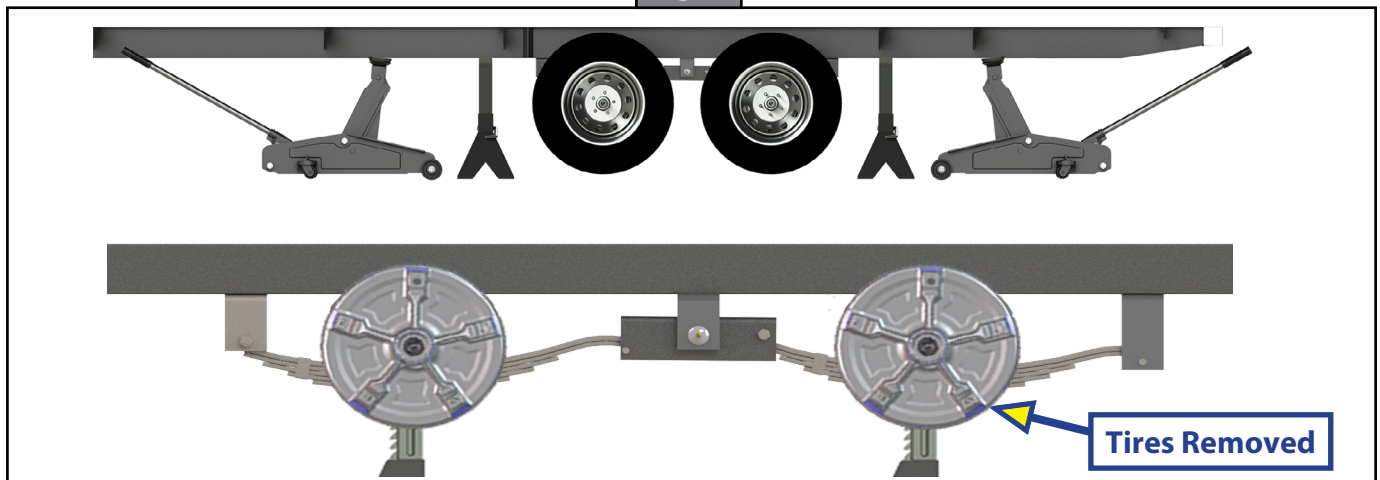
Make sure that no points of contact for the jack stands result in damage to any panels or lines under the trailer. Improper raising or lowering of the trailer could result in death, serious personal injury or severe product or property damage.

1. Disconnect all internal and external power supplies.
2. Using the properly-rated floor jacks, lift the trailer according to the manufacturer's recommendation until the wheels are no longer in contact with the ground (Fig. 1).
3. Support framework in accordance with the manufacturer's recommendations.
4. Remove lug nuts and wheels. Retain for reinstallation.
5. Using a floor jack, lift the axles slightly and place the additional properly-rated jack stands under the axles so that the bolts can be driven out with a hammer.

**⚠ CAUTION**

Allowing the axles to drop could result in damage to the wiring for the electric brakes.

Fig. 1

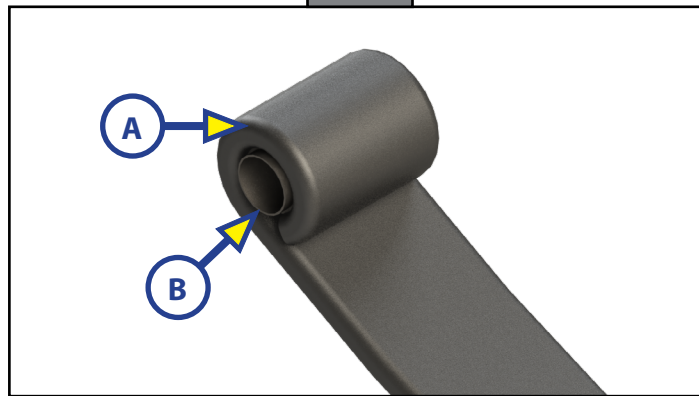


## AXLES AND SUSPENSION

## Installation

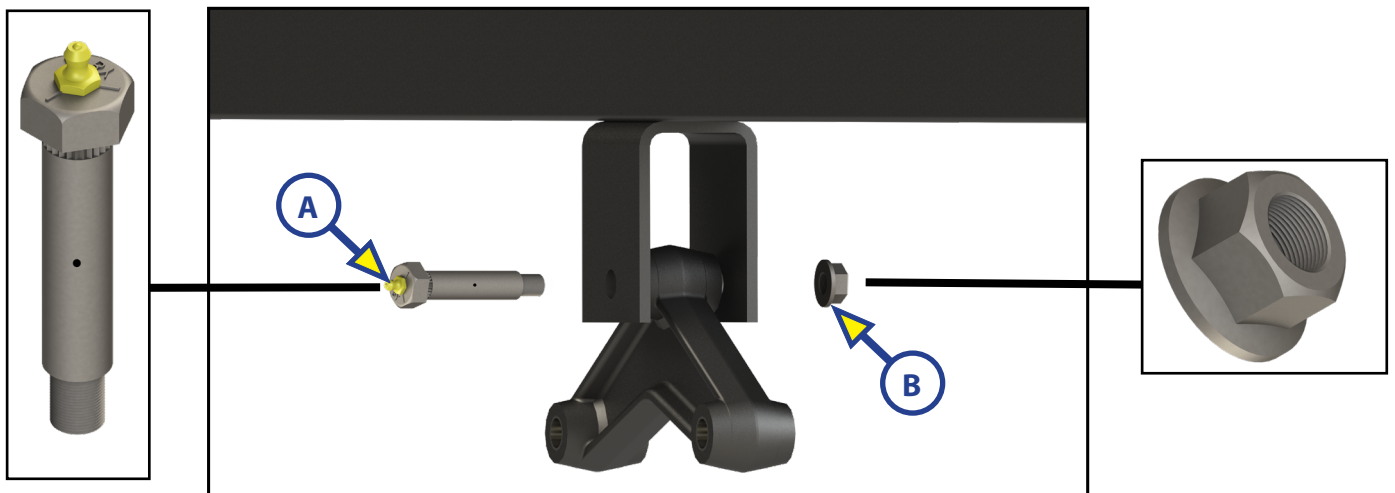
1. After removing axle bolts, inspect spring eyes (Fig. 2A) for brass bushings (Fig. 2B). Change the bushing if needed by using the following procedure:
  - A. Place an appropriately-sized punch onto the brass bushing. An appropriately-sized punch will allow the bushing to slip onto the shaft, but not slide off the other end.
  - B. Insert the end of the punch into the spring eye.
  - C. Drive the old bushing out with a hammer.
  - D. As the old bushing is driven out, the new bushing will be inserted into the spring eye.
  - E. The new brass bushing should be seated as shown in (Fig. 2)

Fig. 2



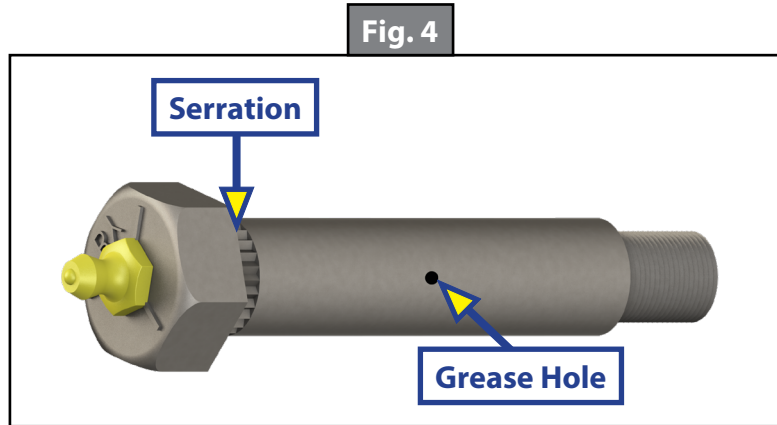
2. Replace standard mounting hardware, one at a time, with wet bolts and 7/16" locking flange nuts (Fig. 3B). Insert the wet bolts with the grease fittings (Fig. 3A) on the inside of the spring hangers into the axle mounting holes. The serrations under the head of the wet bolt should be fully inserted into the hanger or shackle.

Fig. 3



## AXLES AND SUSPENSION

**NOTE:** The wet bolt grease hole (Fig. 4) should be positioned at 3 or 9 o'clock. If the grease hole locations are not installed properly, the weight of the chassis will prevent the grease from fully lubricating the brass bushings.



3. Tighten the locking flange nuts to the shoulders of wet bolts. If the serrations under the head of the wet bolt are not fully inserted into the hanger or shackle, carefully tap the wet bolt into position with a rubber mallet or similar tool.

**NOTE:** Care should be taken not to damage the grease zerks.

4. Apply grease using grease gun to fully lubricate the brass bushing.
5. Reconnect all internal and external power supplies.
6. Remount wheels and lug nuts per manufacturer's recommendations.