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COMPONENTS®



# Shock Kit

## Aftermarket

## Manual

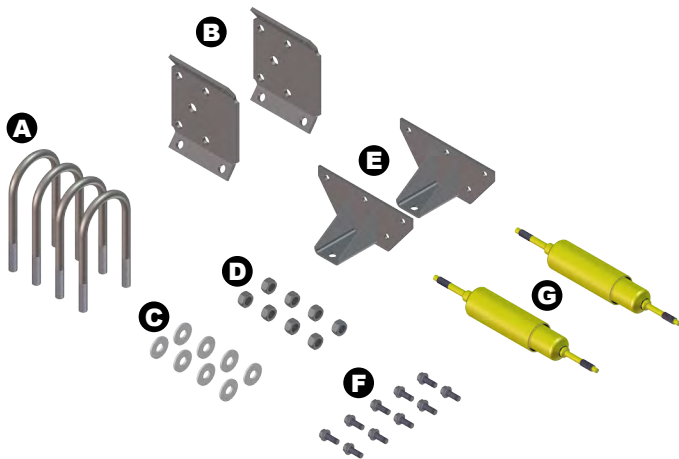
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## Introduction

Instantly improve your ride with our complete shock mount kits. Shocks help to efficiently manage axle spring movement to provide a smoother, more comfortable ride.

## Parts List



### 281281 - 3" Axle Beam Kit

Letter	Part#	Description
A	<a href="#">2139541</a>	U-bolt
B	<a href="#">2139531</a>	Shock Mounting Tie Plate
C	<a href="#">170997</a>	9/16" Washer
D	<a href="#">182274</a>	9/16" Nut
E	275046	Shock Upper Mounting Bracket
F	191021	3/8" - 16 x 1" Self Tapping Bolt
G	177734	Shock

### 281255 - 2 3/8" Axle Beam Kit

Letter	Part#	Description
A	<a href="#">122073</a>	U-bolt
B	1938281	Shock Mounting Tie Plate
D	<a href="#">122079</a>	1/2" x 20 Nut
E	275047	Shock Upper Mounting Bracket
F	191021	3/8" - 16 x 1" Self Tapping Bolt
G	177734	Shock

## Preparation

### Tools Required:

- Floor Jack
- Drill / Socket Wrench
- Torque Wrench
- 3/8" Socket
- 9/16" Socket
- 11/32" Drill Bit
- Tape Measure
- Marker

1. Check to make sure slide-out cross shafts are not in the way.
2. Measure clearance between inside of tire and I-beam flange. Minimum clearance is 2 1/2"

## Installation

This process will need to be repeated on each end of the axle.

**NOTE:** Tires removed from images for clarity.

1. Raise trailer and jack up the axle to release pressure on the springs.
2. Remove old u-bolts and tie plate.
3. Install new tie plate with the longer side facing outward (Fig. 1A) and torque the u-bolts to 90 ft lbs.

**NOTE:** Do NOT use old components.

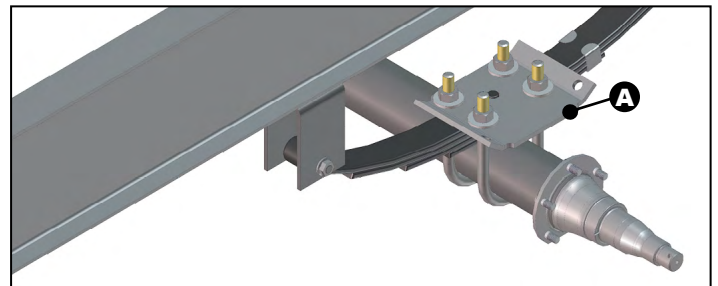


Fig. 1



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- Compress the shock (Fig. 2) and make a mark on the inner shock where the outer shock stops (Fig. 2A and 3A).
- Release compression (Fig. 3). Measure the stroke (Fig. 3B) and make a mark on the inner shock that is one half of the stroke length (Fig. 3C).
- Measure the shock length (Fig. 4A) when the shock is compressed to the halfway mark made in Step 5.



Fig. 2

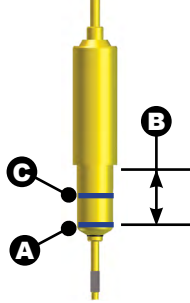


Fig. 3

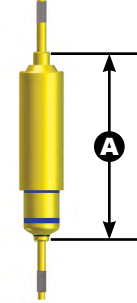


Fig. 4

- Lower the trailer back down onto tires and level so the equalizer(s), if equipped, are parallel to the frame and there is a full load on the springs.
- Make a measurement perpendicular to the shock mounting lip on the tie plate that is the same distance measured in Step 6 (Fig. 4A) + 2" and make a mark on the I-beam parallel to the shock mounting lip on the tie plate (Fig. 5A).

**NOTE:** Mount shocks pointing outwards (away from the shackle kit, equalizer and/or center point) to get the best performance from the shocks.

**NOTE:** Dry fit the shock to be sure it does not exceed a 45 degree angle or it will not function.

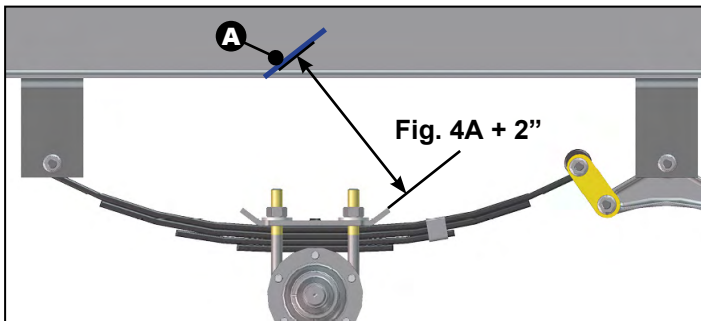


Fig. 5

- Align the bottom of the extended portion of the upper shock mounting bracket to the mark made on the I-beam in Step 8 and drill 11/32" pilot holes.
- Use the 3/8" self-tapping bolts to secure the upper shock mounting bracket to the I-beam (Fig. 6).
- Remove nut, washer and rubber grommet from both sides of the shock.
- Place the shock into the shock mounting lip on the tie plate and compress it to fit into the upper mounting bracket.
- Apply the rubber grommet (Fig. 7A), washer (Fig. 7B) and nut (Fig. 7C) (in that order) and tighten to secure the shock (Fig. 8).

**NOTE:** Do NOT over-tighten. Tighten until the rubber grommet (Fig. 7A) increases diameter equal to the washer (Fig. 7B).

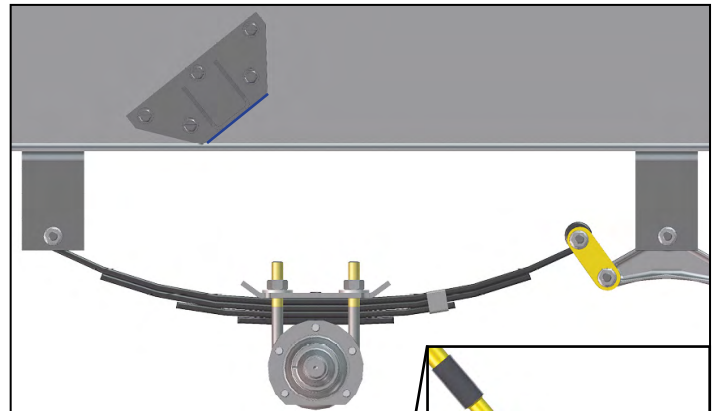


Fig. 6

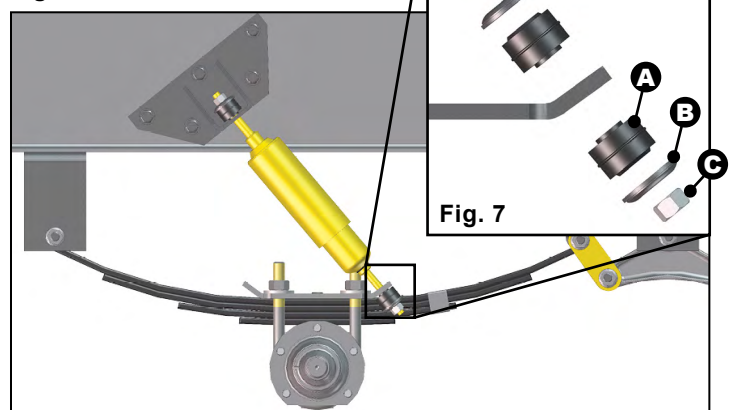


Fig. 8



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### Notes



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