



Towing and Suspension Solutions

# Falcon 5250 shoulder bolt, bushing, washer and end plug replacement kit

part number 910003-52

## Installation Instructions

854539-03 08-14

All specifications are subject to change without notice

ROADMASTER, Inc. 6110 NE 127th Ave. Vancouver, WA 98682 800-669-9690 Fax: 360-735-9300 www.roadmasterinc.com

### WARNING

Read the instructions before installing the kit components. Failure to understand how to install this product could result in property damage, serious personal injury or even death.



### Kit components

This kit contains the components to replace a Falcon 5250 shoulder bolts, bushings, washers and end caps –

- (2) shoulder bolts
- (2) Nylock nuts
- (2) 3/4" locking nuts
- (6) 1 1/2" diameter acetyl washers
- (4) 3/4" diameter acetyl washers
- (2) end caps
- (2) rubber "bump ons"

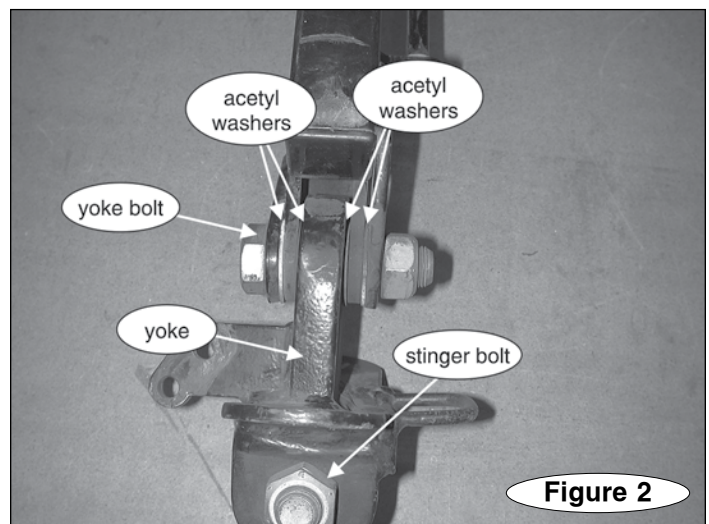
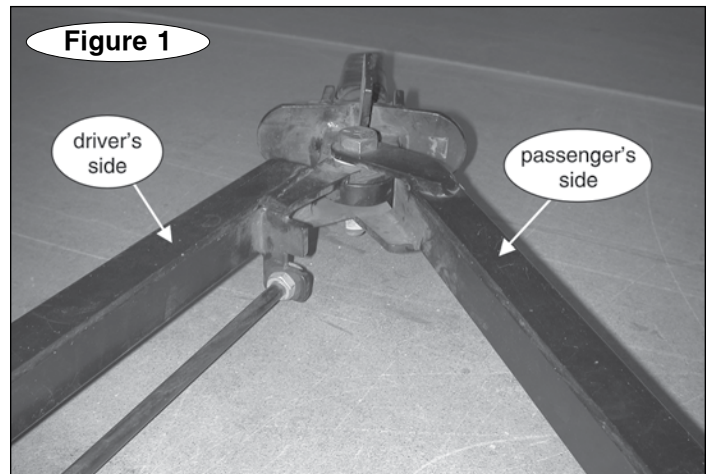
### Required tools

- 1 1/4" socket wrench
- 9/16" socket wrench
- 9/16" socket wrench
- pen knife
- felt tip pen
- crescent wrench
- putty knife or scraper
- 1/4" Allen wrench
- straight edge screwdriver

### Before you begin the installation...

...to aid in reassembly, carefully note: the position of the driver's and passenger's side tow bar arms, in relation to the yoke (Figure 1); the location of the four 1 1/2" diameter acetyl washers on the yoke bolt (Figure 2); and the location of the two 1 1/2" diameter acetyl washers on the stinger bolt (Figure 3).

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### IMPORTANT NOTICE! Safety Definitions

These instructions contain information that is very important to know and understand. This information is provided for **safety** and to **prevent equipment problems**. To help recognize this information, observe the following symbols:

### WARNING

**WARNING** indicates a potentially hazardous situation which, if not avoided, could result in property damage, serious personal injury or even death.

### CAUTION

**CAUTION** indicates a potentially hazardous situation which, if not avoided, may result in property damage, or minor or moderate personal injury.

### CAUTION

**CAUTION** used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.

### NOTE

*Refers to important information and is placed in italic type. It is recommended that you take special notice of these items.*

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### Installation instructions

1. With the 1¼" socket wrench and the crescent wrench, remove the stinger bolt (Figure 4). Discard the two original 1½" diameter acetyl washers and the ¾" nut; replace them with new washers and the new nut. Reattach the bolt.

2. Using the same wrenches, remove the yoke bolt (Figure 5). Discard the four original 1½" diameter acetyl washers and the ¾" nut, replace them with new washers and the new nut. Reattach the bolt.

Tighten the nut until the bolt is snug.

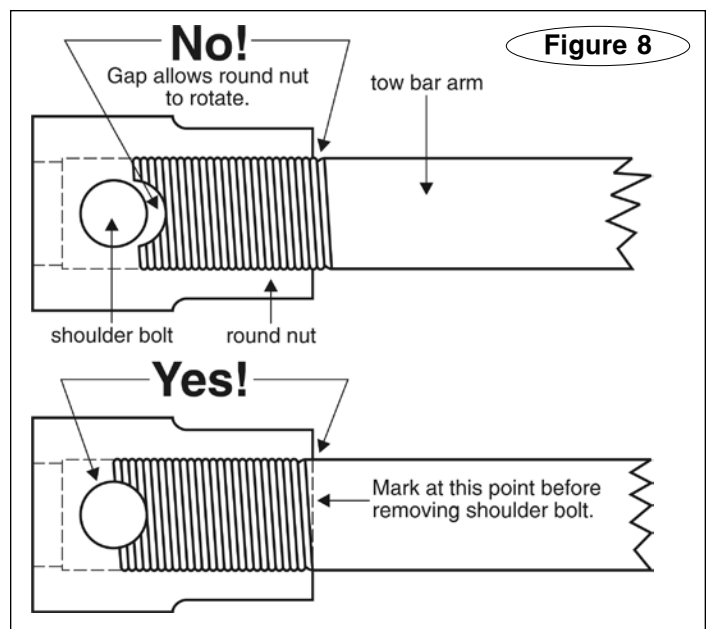
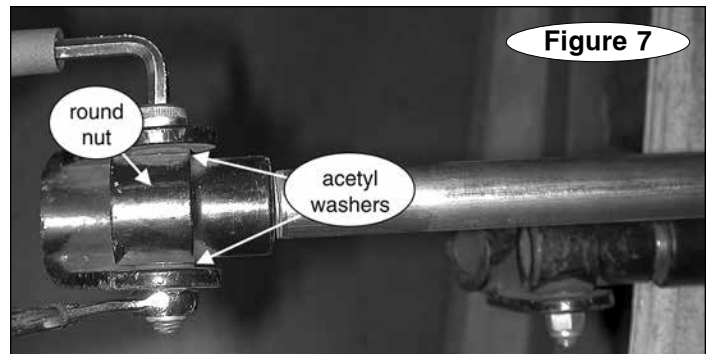
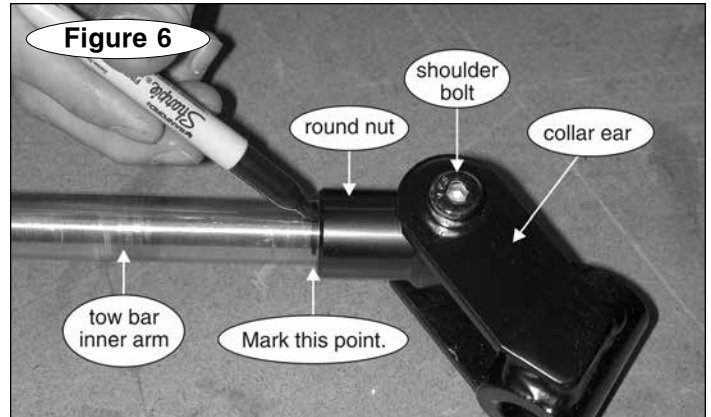
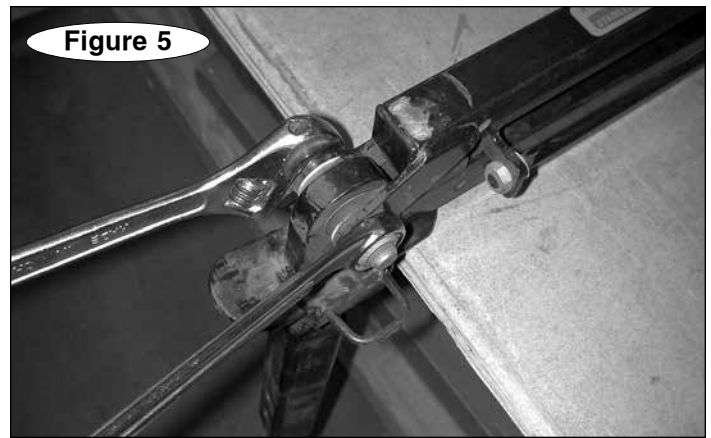
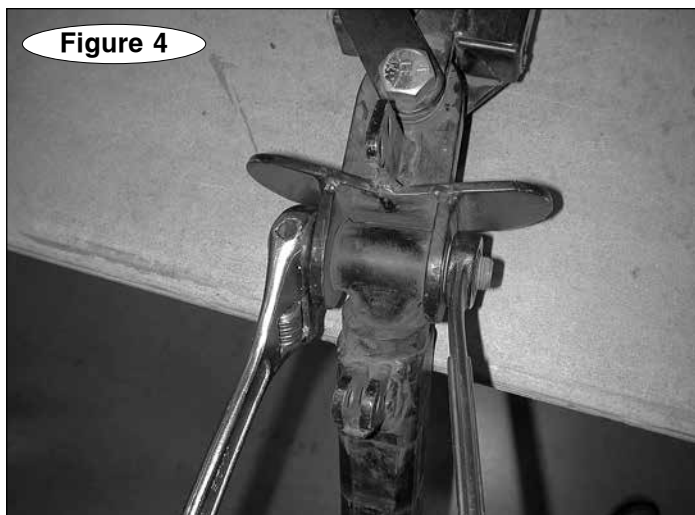
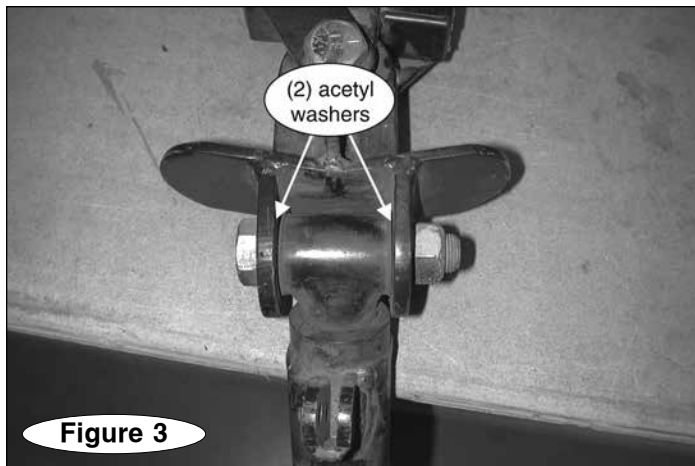
The torque required to adequately tighten this bolt varies from tow bar to tow bar. If the bolt is over-tightened, the tow bar arms will not pivot easily. If this is the case, adjust the torque.

3. Use a felt tip pen to mark the tow bar arms at the point where the round nut (Figure 6) attaches to the end of the tow bar arm (Figure 6). Do not move the round nut forward or backward from this position.

4. Using the 9/16" socket wrench and the ¼" Allen wrench, remove one of the collar shoulder bolts (Figure 7). Discard the bolt, Nylock nut and the two ¾" diameter acetyl washers.

5. Make certain that the round nut has not moved forward or backward from the position you marked in step 3. If the round nut has moved forward, the replacement shoulder

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bolt will not fit. If the round nut has moved backward, it will rotate off the tow bar arm. Refer to Figure 8.

**! WARNING**

If the round nut is moved backward on the tow bar arm, the shoulder bolt will not hold the round nut in place. Towing vibrations will cause the round nut, and the swivel ear with it, to rotate off the tow bar arm. The tow bar arm will detach from the towed vehicle, causing the towed vehicle to separate or to be held by only one tow bar arm, which will result in property damage, personal injury or even death.

6. Replace the original Nylock nut and the two 3/4" diameter acetyl washers with the new components from the kit and reattach the shoulder bolt.

Repeat for the other collar shoulder bolt.

*Note: the swivel ears (Figure 9) must be attached with the top facing up. To distinguish between the top and bottom, spread the tow bar arms about 28 inches apart. Place a swivel ear over a round nut and rotate it to the left or the right, to the approximate position it would be in when towing. When the top is facing up, the swivel ear will be at the same angle as the tow bar arm.*

**! WARNING**

If the swivel ears are not attached as described above, the weight of the towed vehicle will cause them to separate, resulting in tow bar failure and the loss of the towed vehicle.

Failure to attach the ears properly may cause property damage, personal injury or even death.

7. With the straight edge screwdriver, pry off one of the end caps (Figure 10) and replace it with a new one; repeat for the other tow bar arm.

8. With the putty knife or scraper, pry off the rubber "bump ons" (Figure 11). Remove any residue from the top of the tow bar arm (Figure 12).

9. With the pen knife, separate the two new "bump ons," peel off the backing strip on the bottom of each one and press them down into place.

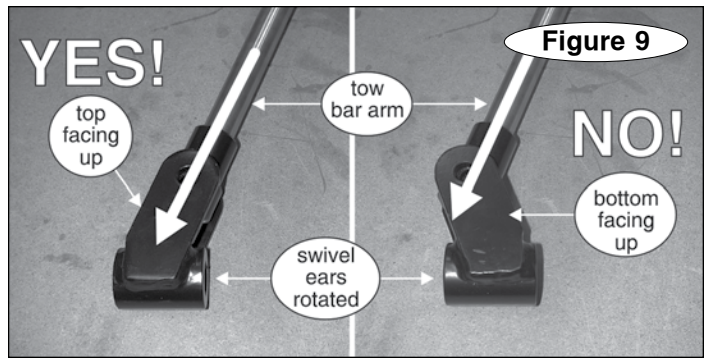


Figure 9

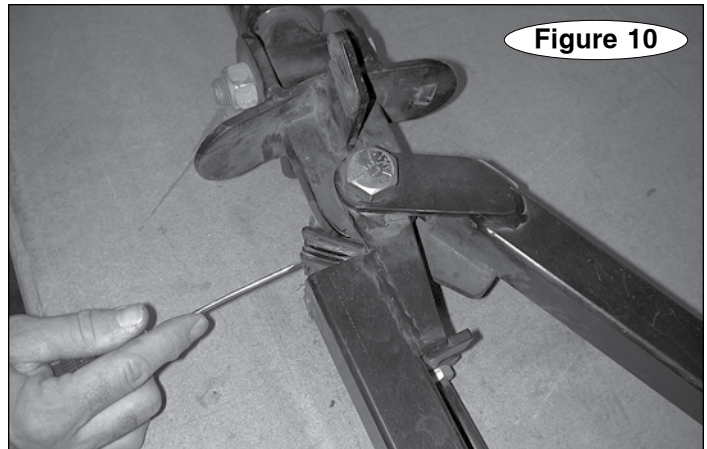


Figure 10

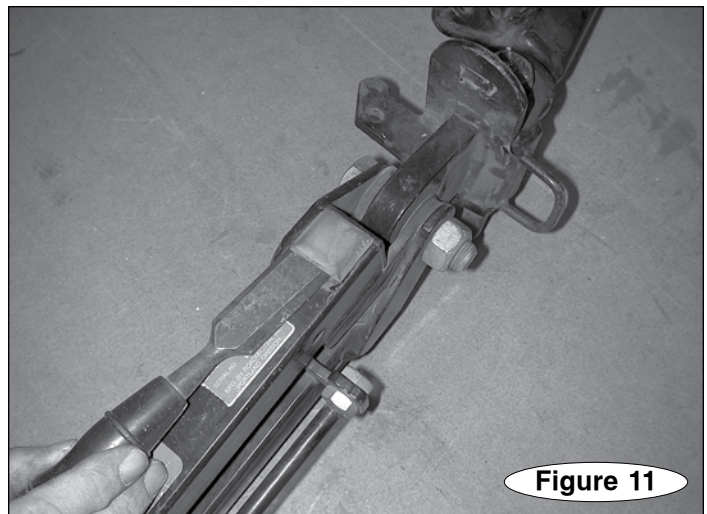


Figure 11

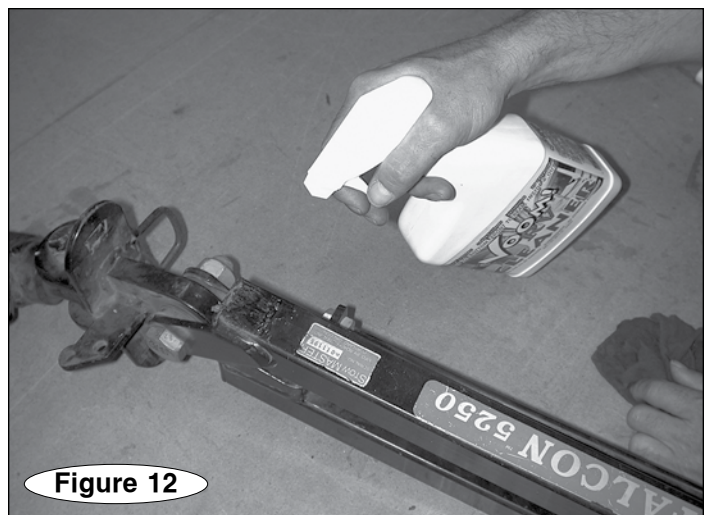


Figure 12



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