



StowMaster bushing and Autowlok™ assembly

part number 910003-10

Replacement Instructions

ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

ROADMASTER, Inc.

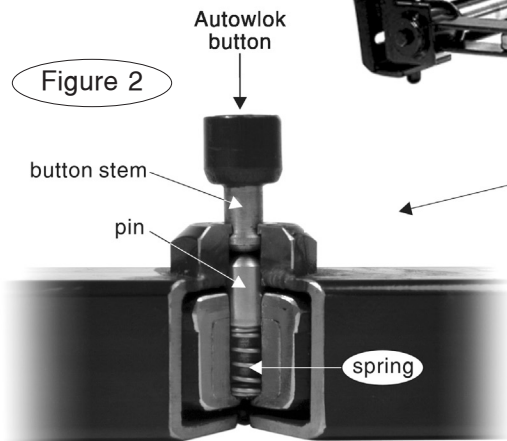
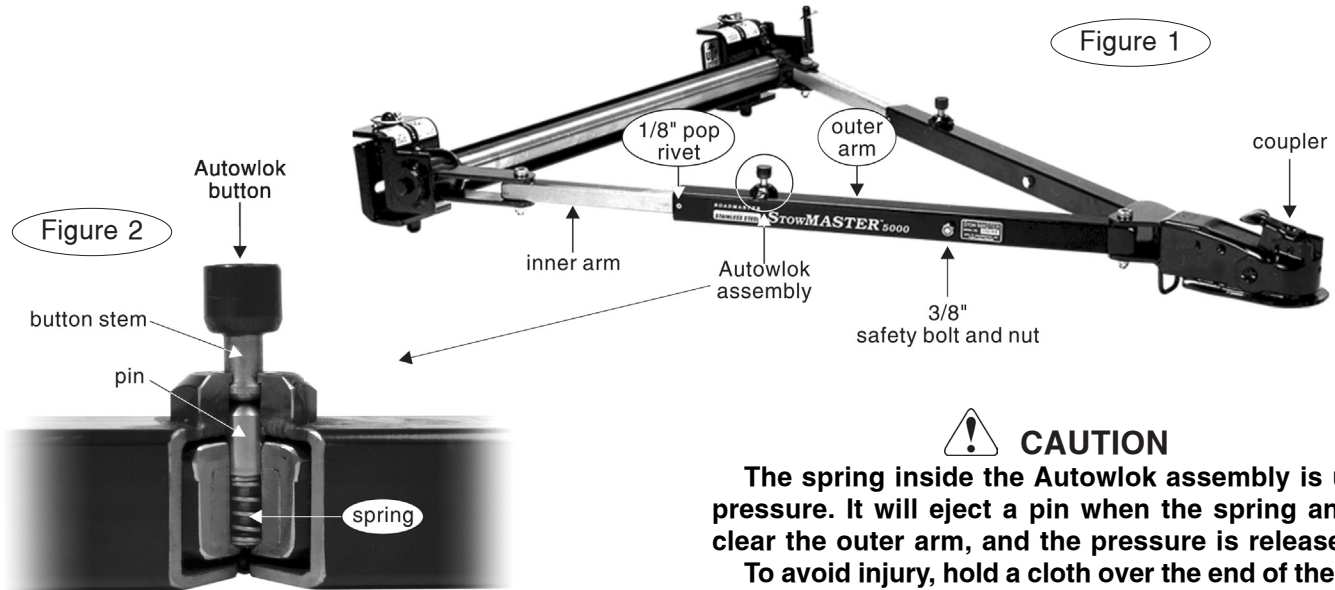
6110 NE 127th Ave.

Vancouver, WA 98682

800-669-9690

www.roadmasterinc.com

Note: to replace an Autowlok button only, it is not necessary to disassemble the tow bar. See "To replace an Autowlok button" on page three.



CAUTION

The spring inside the Autowlok assembly is under pressure. It will eject a pin when the spring and pin clear the outer arm, and the pressure is released.

To avoid injury, hold a cloth over the end of the outer arm and stand to one side, clear of the pin and spring, as the Autowlok assembly clears the outer arm.

CAUTION

If both Autowlok assemblies will be replaced, work on one tow bar arm at a time. The inner arms are not interchangeable. If the inner arms are not replaced correctly, the tow bar will not center the towed vehicle behind the motorhome, which may cause severe tire damage, as well as other consequential, non-warranty damage to the towed vehicle.

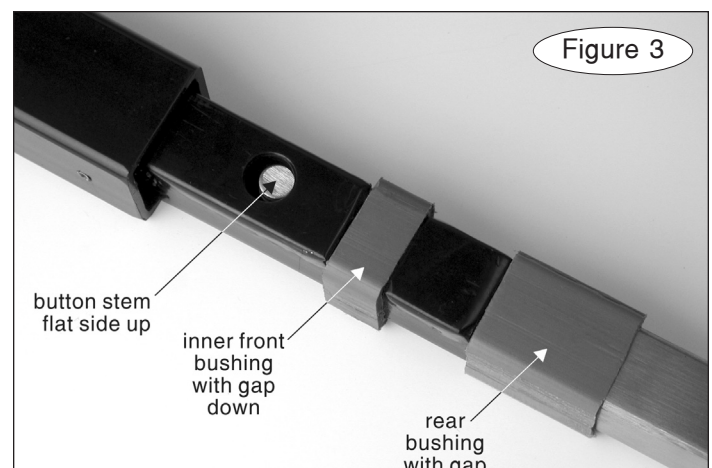
To replace an entire Autowlok assembly...

1. Disconnect one of the inner arms (Figure 1) – first, remove the 3/8" safety bolt and nut (Figure 1) on the outer arm (Figure 1). Then, drill out the 1/8" pop rivets (one on each side – Figure 1) holding the rear bushing.

CAUTION

After drilling out the pop rivets, clean the interior of the outer arm to remove any metal shavings from the interior of the outer arm. The shavings may impair the operation of the sliding arms, as well as score or otherwise damage the plastic bushings.

2. Hold a piece of cloth over the end of the outer arm. Press the Autowlok button (Figure 2) down and slide the inner arm out of the outer arm.



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Turn the tow bar arm over and move the inner arm forward or backward slightly, if necessary, until the button stem drops through the hole in the outer arm. Then, draw a straight line with a pencil across the bottom of the inner arm (Figure 4), 3/4" from the edge of the outer arm.

Slowly close the inner arm until the edge of the outer arm is even with the pencil line you drew. This position will stabilize and support the button stem.

Turn the tow bar arm back over and attach the Autowlok button to the button stem, following steps 6 through 8 under "To replace an Autowlok button..." on page three.

After the button has been attached, slide the inner arm out of the outer arm.

5. Remove the old inner front bushing (Figure 3). Apply a light coat of lubricant to the inside of the new inner front bushing. Use a dry silicone aerosol, such as LubeMaster (part number 747).

CAUTION

Do not use petroleum-based products to lubricate the tow bar. Petroleum will attract dirt and dust, which will impede the operation of the inner arms and/or other components. Certain petroleum products may also corrode non-metallic components.

With the gap in the new inner front bushing facing down (Figure 3), slide the bushing into position (Figure 3) on the inner arm.

Test the fit – insert the inner arm into the outer arm and slide the inner arm forward and backward, to its fullest extent.

If the inner arm does not slide smoothly, or if the new bushing is too wide to fit, use a grinder to trim a small amount from the edges touching the inside of the outer arm. Trim an equal amount from each side, test-fit the inner arm and trim more, if necessary, until the inner arm slides forward and backward easily.

6. Remove the old rear bushing (Figure 3).

7. Insert one of the new springs (Figure 2) into the opening near the inner front bushing.

8. Lubricate the bottom of one of the new pins (Figure 2) thoroughly. As before, use a dry silicone aerosol. Then, position the new pin, rounded side up (Figure 5), on the new spring.

9. Hold the pin down flush to the top of the inner arm, and insert the inner arm into the outer arm. Slide the arm forward until the Autowlok button snaps into the locked position (Figure 6).

10. Apply a light coat of lubricant to the inside of the new rear bushing. As before, use a dry silicone aerosol. Then, with the gap in the bushing facing down (Figure 3), slide the new rear bushing onto the inner arm and forward, until the edge of the bushing is flush to the edge of the outer arm, as shown in Figure 6.

If the new bushing is too wide to fit into the outer arm, use a grinder to trim a small amount from the edges

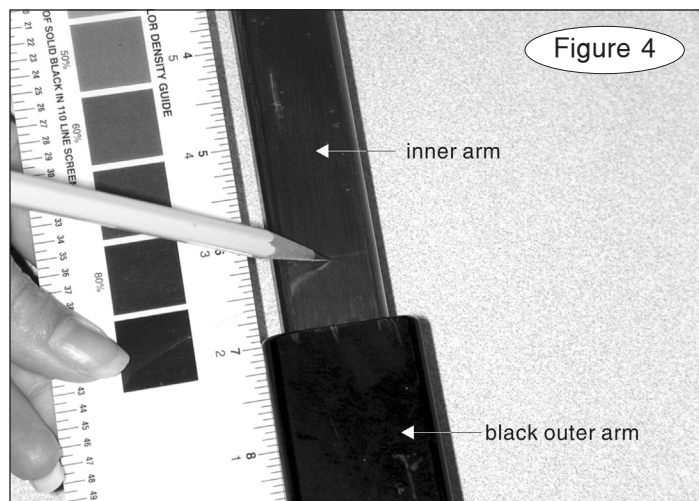


Figure 4

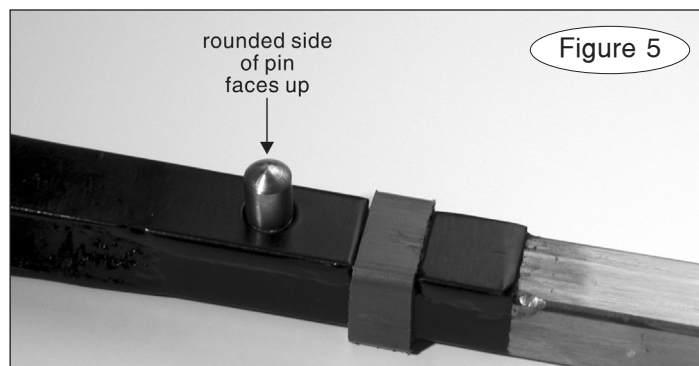


Figure 5

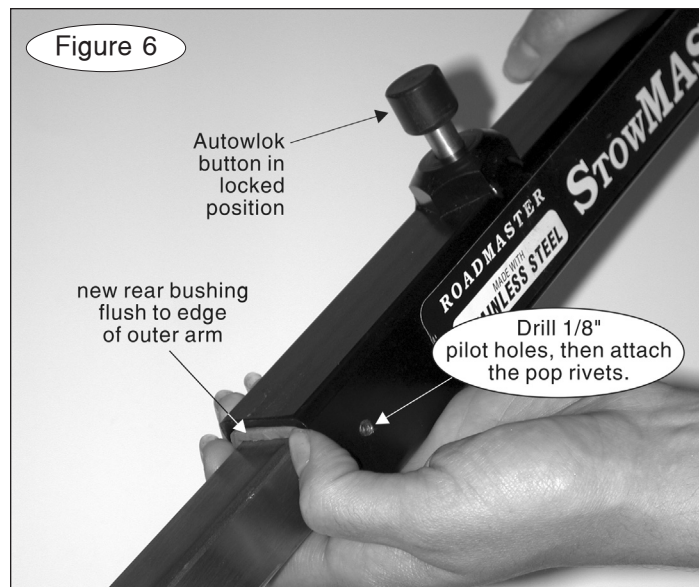


Figure 6

ing the inside of the outer arm. Trim an equal amount from each side, test-fit the bushing and trim more, if necessary, until the bushing fits.

11. With the Autowlok button in the locked position, reattach the 3/8" safety bolt and nut you removed in step 1.

WARNING

Ensure that the arm is locked before replacing the 3/8" safety bolt and nut. Unless the arm is locked before the bolt and nut are replaced, the Autowlok mechanism will not function – the tow bar arm will not lock

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when the tow bar arm extends for towing, and the inner arm will separate from the outer arm.

The towed vehicle will not be held in place if the tow bar arm separates, which may cause a loss of vehicular control, a traffic accident or loss of the towed vehicle, resulting in property damage, personal injury or even death.

12. With the safety bolt attached, test the operation of the inner arm – press the Autowlok button down and slide the inner arm forward and backward, to its fullest extent.

If the inner arm does not slide smoothly, trim the rear bushing – remove the 3/8" safety bolt, press the Autowlok button down and slide the inner arm out.

As before, trim an equal amount from each side of the bushing. Then test the operation of the inner arm and trim more, if necessary, until the inner arm slides forward and backward smoothly.

13. With the safety bolt attached, the Autowlok button in the locked position (Figure 6) and the rear bushing flush to the edge of the outer arm (Figure 6), drill two 1/8" pilot holes for the pop rivets (Figure 6).

Secure the bushing in place with two 1/8" pop rivets (one on each side).

14. If necessary, repeat steps 1 through 13 for the other tow bar arm.

To replace an Autowlok button...

1. It is not necessary to disassemble the tow bar to replace an Autowlok button.

First, open the tow bar and extend both arms until the buttons on both arms snap into the locked position.

Note: if the button is missing, it will be necessary to lift the button stem (Figure 2) up slightly as you extend the arm, so that the button stem will clear the inner arm weldment and inner arm bushing.

2. Set the coupler on any object that will allow the tow bar arms to rest at a convenient height to work on the button.

3. With the arms fully extended and locked, draw a straight line with a pencil across the top of the inner arm (Figure 4), 3/4" from the edge of the black outer arm (Figure 4).

4. Depress the button (or the button stem, if the button is missing) and slowly close the arm until the edge of the black outer arm is even with the pencil line you drew in the previous step.

This position will stabilize and support the button stem so that the new button can be properly attached.

5. Remove the old button (if present) with pliers or channel locks, being careful not to scratch the button stem.

6. Clean any residue that may be on the exposed surface of the button stem.

Note: for easier attachment to the button stem (step 7, below), drop the button in boiling water for five minutes. The heat will make the button more flexible.

If you choose this method, dry the button completely before applying the glue.

7. Follow the instructions on the supplied package of epoxy glue to mix and activate the glue, then apply enough to lightly cover the inside of the button. Next, apply enough glue to completely fill the grooves at the top of the button stem.

Within 30 seconds, position the button over the top of the button stem, and tap the button down over the stem, as far as it can go, with a rubber mallet.

CAUTION

Ensure that the button is tapped completely down, as far as it can go. If the button is not completely down, it will not depress the pin and spring far enough to lock or unlock the tow bar arm.

8. Allow 24 hours for the epoxy glue to set. The button can be depressed and released after approximately 10 minutes, but do not pull on the button for 24 hours.



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