

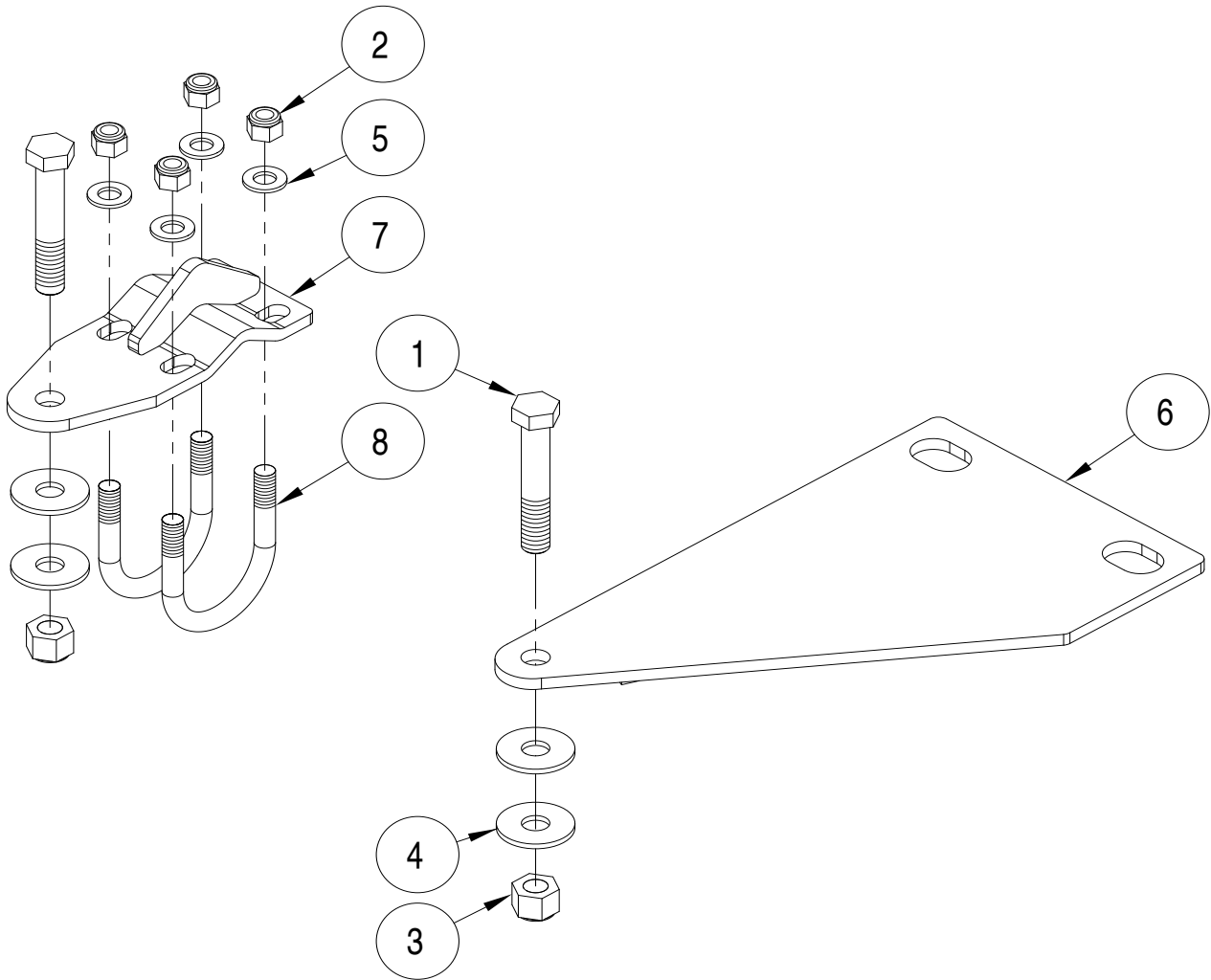


# STEERING STABILIZER INSTALLATION INSTRUCTIONS

**KIT# RBK31**

85-6270-00  
08-22

ROADMASTER, Inc. 6110 NE 127th Ave. Vancouver, WA 98682 360-896-0407 fax 360-735-9300 www.roadmasterinc.com



ITEM	QTY	DESCRIPTION	PART NUMBER
1.....2.....		1/2-NF x 3" BOLT.....	350101-50
2.....4.....		3/8-NC NYLON INSERT LOCK NUT.....	350255-00
3.....2.....		1/2-NF NYLON INSERT LOCK NUT.....	350259-01
4.....4.....		1/2" FLAT WASHER.....	350308-00
5.....4.....		M10 FLAT WASHER.....	355710-00
6.....1.....		BRACKET.....	B1073
7.....1.....		BRACKET.....	B802
8.....2.....		U BOLT.....	LRG38
9.....1.....		LOCTITE.....	200544-00



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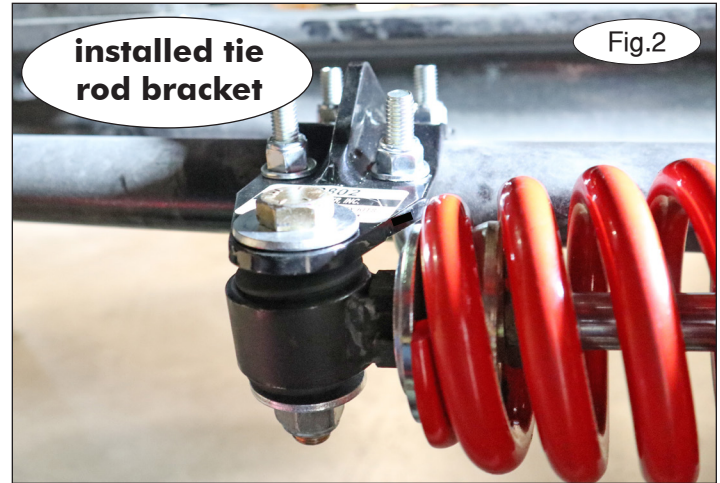
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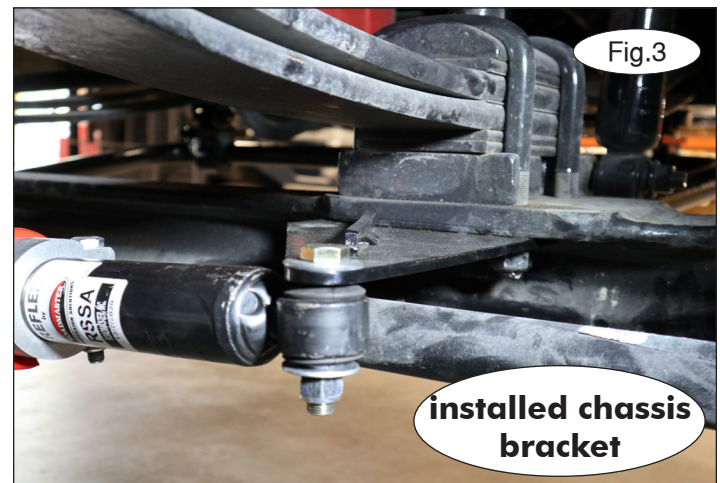
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## IMPORTANT

Before installing the steering stabilizer, inspect the drag link and tie rod ends, as well as the steering components. If they are excessively worn and/or have excessive play, they will cause handling problems that the steering stabilizer will not fix. Replace worn components before installing the stabilizer to achieve the best results.



**Note:** Roadmaster makes multiple steering stabilizers. The unit depicted in these instructions may vary from your unit but all stabilizers will follow these instructions. If installing a Reflex, ensure that the spring is fully-seated in its track on the collar of the unit. If it is installed without the spring fully-seated in its track, the unit could malfunction or otherwise fail to operate properly (Fig.1).



1. Center the steering wheel and lock it into place.

**IMPORTANT! If the tires are not straight ahead, then the vehicle will pull to one side after the installation. To prevent this and further adjustments after the test drive, make sure the steering is truly straight ahead before continuing.**

Remove the nuts from the rear U-bolt on the passenger side of the front axle.

2. Install the axle bracket B1073 over the legs of the U-bolt. Ensure that the gusset on the axle bracket faces up. Tighten the U-bolt nuts evenly. Torque to 250 lb-ft. *Hint: It may be necessary to clean U bolt threads with a wire bush and/or use some penetrating oil to remove the nuts. Be sure not to get any over spray on the brake rotors.*

3. Attach the tie rod bracket B802 to the tie rod with the gusset pointing up. Install the included 3/8" U-bolts up from the bottom side of the tie rod and through the holes in the B802 bracket. Finish with the included washers and 3/8" nylock nuts. Finger-tighten only at this time so that the bracket may be positioned along the tie rod later in the installation process.

4. Place one of the included 1/2" fender washers over a 1/2" x 3" bolt and place the bolt through the mounting hole in the B1073 axle bracket. Attach the Reflex shock assembly as shown in Figure 3. Finish with another 1/2" fender washer and 1/2" nylock nut. Finger tighten only at this time.



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5. Slide the B802 tie rod bracket along the top of the tie rod and into position at the other end of the Reflex shock assembly. Place one of the included  $\frac{1}{2}$ " fender washers over a  $\frac{1}{2}$ " x 3" bolt and bolt through the B802 axle bracket and the shock assembly. Finish with a  $\frac{1}{2}$ " fender washer and  $\frac{1}{2}$ " nylock nut.

6. Rotate the B802 tie rod bracket around so that it sits flat on the top of the tie rod. Tighten the  $\frac{3}{8}$ " U-bolts evenly to 35 lb-ft. Then, tighten the  $\frac{1}{2}$ " bolts to 25 lb-ft.

7. Tighten the  $\frac{1}{2}$ " bolts to 25 lb-ft.

8. **For Exact Center installations:** Proceed to step 9. **For Reflex installations:** Test drive the vehicle to make certain that the stabilizer is adjusted properly. If the steering pulls to either side, center it by loosening the bracket U-bolts at the tie rod, and then reposition it. Tighten the bolts and test drive it once again, repeating the process until the proper adjustment is achieved. **This concludes the installation of the Reflex (Fig.4).**

9. **For Exact Center installations:** First, ensure that the suspension is loaded. Then, tighten the jam nuts against the ring nuts on each end. **Note: Hold the Exact Center unit in place so that it does not rotate when you tighten the jam nuts.** Test drive the vehicle and ensure that it is not pulling to the left or right. If it needs to be adjusted, follow step 10.

10. **IMPORTANT** Several micro-adjustments may be needed before the fit is dialed in (Fig.5). A left pull can be corrected by shortening the unit, a right pull can be corrected by lengthening the unit. **Important Notes: Only loosen one jam nut at a time when adjusting. Be sure the jam nuts are tightened against the END and not the body. Do not exceed a distance of  $\frac{3}{8}$ " between the jam nut and unit body.**

11. Straighten the dust boot as needed to ensure smooth operation of the unit. **This concludes the installation of the Exact Center.**



Fig.4

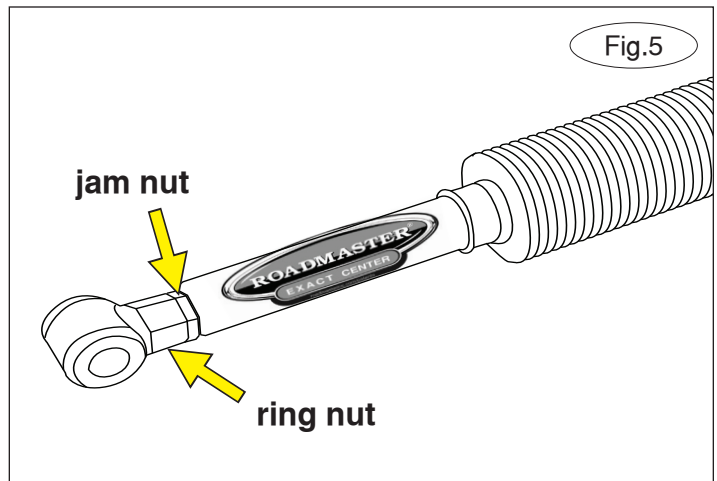


Fig.5



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## **WARNING**

**Failure to follow these instructions can result in property damage, personal injury or even death.**

- The installer must read the instructions and use all bolts and parts supplied. Failure to securely fasten the stabilizer could result in loss of the stabilizer, damage to the vehicle, personal injury or even death.
- There must be adequate clearance between the Steering Stabilizer and all chassis and steering parts, and any other components, or non-warranty damage to the vehicle will result. After final installation, the installer must inspect the stabilizer to ensure adequate clearance. Some minor adjustments may be needed to achieve this; always verify that the steering wheel remains centered before and after these adjustments.
- Always test drive the vehicle to confirm the steering wheel settings. If the vehicle pulls to either side, the center positioning must be adjusted. If the steering wheel does not return to the center position, the tie rod bracket may require minor adjustments. Failure to adjust the center positioning may result in a loss of vehicular control.
- After installing this Steering Stabilizer, any technician who is performing alignment or suspension work on the motorhome must loosen the tie-rod bracket to adjust the toe; the technician must also re-adjust the steering damper. Failure to adjust the center positioning may result in a loss of vehicular control.
- Regardless of year, make and model, a wide range of options for specific applications may or may not interfere with the installation. It is the installer's responsibility to make certain that equipment is not damaged once the suspension solution travels through the full range of motion. Failure to ensure adequate clearance could result in non-warranty property damage, personal injury or even death.
- If running changes were made by the vehicle manufacturer after this kit was designed, some bolts or other fasteners in the included hardware pack may no longer be the correct size. It is the installer's responsibility to verify that the stabilizer is securely fastened to the vehicle, and fitted with the correct hardware, to account for these changes. Failure to securely fasten the stabilizer could result in loss of the stabilizer, damage to the vehicle, personal injury or even death.
- Except to adjust for running changes to the vehicle, use only the parts supplied by ROADMASTER to install the stabilizer. Using substandard grade parts or parts of the wrong size may result in loss of the stabilizer, damage to the vehicle, personal injury or even death.
- Once a year, the owner must inspect the fasteners for proper tightness and/or torque, according to the bolt torque requirements chart in these instructions. Failure to securely fasten the stabilizer could result in loss of the stabilizer, damage to the vehicle, personal injury or even death.
- Do not use an air impact wrench when reinstalling bolts, as stripped threads may result.
- This stabilizer is only warranted for the original installation. Installing a used stabilizer on another vehicle is not recommended and will void the warranty.