

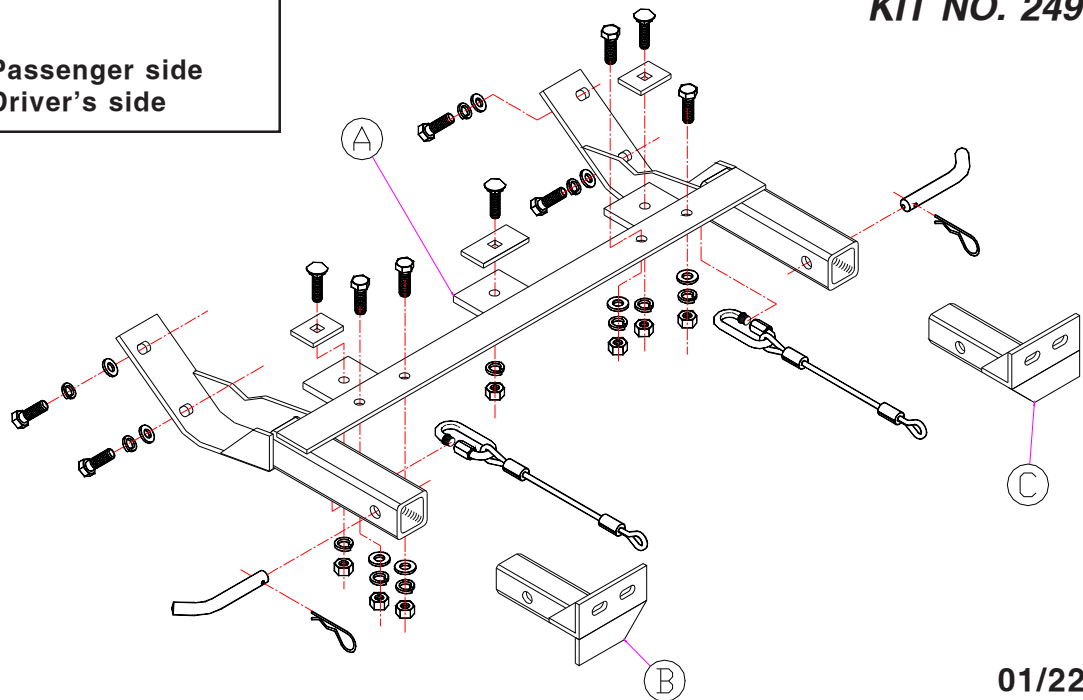
# BASEPLATE KIT INSTALLATION INSTRUCTIONS

ROADMASTER, Inc. 6110 NE 127th Ave. Vancouver, WA 98682 1-800-669-9690 fax 360-735-9300 www.roadmasterinc.com

**PARTS LIST:**

- 1- MAIN RECEIVER (A)
- 1- FRONT BRACE (B) - Passenger side
- 1- FRONT BRACE (C) - Driver's side

**KIT NO. 249-3**



01/22/01

**IMPORTANT:** All baseplates *must* be assembled with all the bolts left loose for final adjustment and positioning (before tightening) unless otherwise instructed. All bolts *must* be torqued for proper strength. If more than one bolt is used per fastening point, the diagram may only show one. Use flat washers over all slotted holes and lock washers on all fasteners.

## WARNING

Failure to heed these warnings or follow the installation instructions may result in a voided warranty, loss of towed vehicle, personal injury or death.

- Do not weld or modify this baseplate or its components. Welding or modification will void the warranty.
- Do not use this document as a basis to design/fabricate a baseplate, as it may not show all parts or structural components.
- We strongly recommend professional installation.
- If the towed vehicle has been in an accident, it must be properly repaired before attaching the baseplate. Do not install the baseplate if any structural frame damage is found.
- The installer must use all bolts and parts supplied. If running changes were made by the vehicle manufacturer after this kit was designed, some bolts or other fasteners may no longer be the correct size. It is the installer's responsibility to verify this kit is securely fastened to the vehicle.
- Use Loctite® Red on all bolts used to secure this baseplate. Torque all bolts to the specifications found at the end of these instructions. Do not over-torque the bolts or failure may occur.
- The installer must inspect the baseplate to ensure adequate clearance, particularly around hoses, air conditioner lines, radiators, etc. or non-warranty failure may result.
- Roadmaster manufactures many styles of baseplates. If your baseplate has removable arms, they must be removed before driving the vehicle, unless the arms can be pinned or padlocked in place. If not secured, the arms could vibrate out.
- Some motorhome chassis have such a tight turning radius that you can damage your motorhome, towed vehicle, tow bar or baseplate while turning sharply. Before getting on the road, test your turning radius in

an empty parking lot. Turning too sharply could result in non-warranty damage to your towing system, motorhome and/or towed vehicle.

- Do not back up with the towed vehicle attached or non-warranty damage will occur to your towing system or vehicles.
- The safety cables must connect the towing vehicle to the towed vehicle frame to frame, with the cables crossed, with enough slack for sharp turns. See cable instructions for proper routing. Failure to do so will result in non-warranty damage and/or the loss of the towed vehicle.
- This kit is designed for use with ROADMASTER tow bars and ROADMASTER adapters only. Using this kit with other brands, without an approved ROADMASTER adapter, may result in non-warranty damage or injury.
- Receiver extensions and out-of-level towing situations of 3 inches or more. This can cause the system to swing much higher and lower, causing excessive strain on the tow bar, baseplate and frame. That can cause the towing system to fail, causing property damage, personal injury or even death. If you must use a receiver extension or drop hitch to tow, it will reduce your receiver's weight capacity by 1/3 to avoid damaging your system. Never use more than one extension and/or drop hitch, as this will void your warranty.
- Every 3,000 miles, the owner must inspect all mounting points for cracks or fatigue, and check the fasteners for proper torque, according to the bolt torque requirements chart on the last page of these instructions.
- The owner must follow the vehicle manufacturer's instructions to prepare the vehicle for towing. Failure to do so may cause severe damage to the vehicle.
- This baseplate is only warranted for the original installation. Installing a used baseplate on another vehicle is not recommended and will void the warranty.

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## KIT NO. 249-3

1. **Important:** please use all supplied bolts and parts and read all instructions carefully before beginning this installation. The majority of questions you may have can be answered within the text, and proper installation will ensure safe and secure travel. Now, begin the installation. This bracket kit is a *XL Series* tubular design and mounts to the stabilizer bar mounts on both sides and the front main frame cross member. The kit consists of a lower receiver brace, two front braces and the mounting hardware. The lower bumper spoiler will have to be removed or holes made to match the receiver tubes. If you choose to cut holes, do so now. You will need to cut two 2¼" square holes 28 -1/2" O.C .
2. Look under the front frame cross member. You will see four existing 9/16" holes in the bottom of the front cross member. Put four ½" x 1½" bolts through these holes with ½" flat washers on the top of the frame. Leave them hanging in the holes for now.
3. Remove the bolts from the stabilizer bar mounts and let the bar hang down.
4. Hold the lower receiver brace over the four front bolts and the rear torsion bar mounting area, then bolt through the brace with four ½" nuts and lock washers.
5. Now sandwich the rear of the receiver brace between the frame and the stabilizer bar mounts and bolt in place using 10mm x 1.5 x 45mm nuts, fender washers and lock washers.
6. Using the brace as a template, drill three 17/32" holes into the bottom of the cross member.
7. Fish wire one ¼" x 1½" x 3" backing plate and a ½" x 1½" carriage bolt through an access hole located between the receiver tube and the mounting tab on the underside of the cross member into the center hole that you just drilled. Now locate two ¼" x 1½" x 2" backing plates and ½" x 1½" bolts and do the same for the two side holes. Finish with ½" nuts and lock washers.
8. Torque all bolts to the specifications below.
9. Insert the front braces into the lower receiver brace as illustrated and pin in place using the supplied 5/8" draw pins and spring pins.
10. Mount the tow bar according to the manufacturer's instructions.
11. Use the supplied cable connectors to connect the tow vehicle's safety cables to the lower receiver braces.

### HARDWARE KIT:

4-1/2" x 1-1/2" bolts	4-10mm fender washers
3-1/2" x 1-1/2" carriage bolts	2-1/4" x 1-1/2" x 2" backing plates
7-1/2" nuts	1-1/4" x 1-1/2" x 3" backing plate
7-1/2" lock washers	2-5/8" draw pins
4-1/2" flat washers	2-1/8" spring pins
4-10mm x 1.5 x 45mm bolts	2-cable connectors
4-10mm lock washers	2-12" safety cables, 8,000 lb. rated

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### BOLT TORQUE REQUIREMENTS

Note: The torque values represented below are intended as general guidelines. Torque requirements for specific applications may vary. Roadmaster does not warrant this information to be accurate for all applications and disclaims all liability for any claims or damages which may result from its use.

STANDARD BOLTS			METRIC BOLTS			METRIC BOLTS		
Thread Size	Grade	Torque	Thread Size	Grade	Plated/Unplated	Thread Size	Grade	Plated/Unplated
5/16	5	13 ft./lb.	8mm-1.0	8.8	20 ft./lb. 18 ft./lb.	12mm-1.25	8.8	70 ft./lb. 65 ft./lb.
3/8	5	23 ft./lb.	8mm-1.25	8.8	19 ft./lb. 18 ft./lb.	12mm-1.5	8.8	66 ft./lb. 61 ft./lb.
7/16	5	37 ft./lb.	10mm-1.25	8.8	38 ft./lb. 36 ft./lb.	12mm-1.75	8.8	65 ft./lb. 60 ft./lb.
1/2	5	56 ft./lb.	10mm-1.5	8.8	37 ft./lb. 35 ft./lb.	14mm-2.0	8.8	104 ft./lb. 97 ft./lb.
5/8	5	150 ft./lb.						