

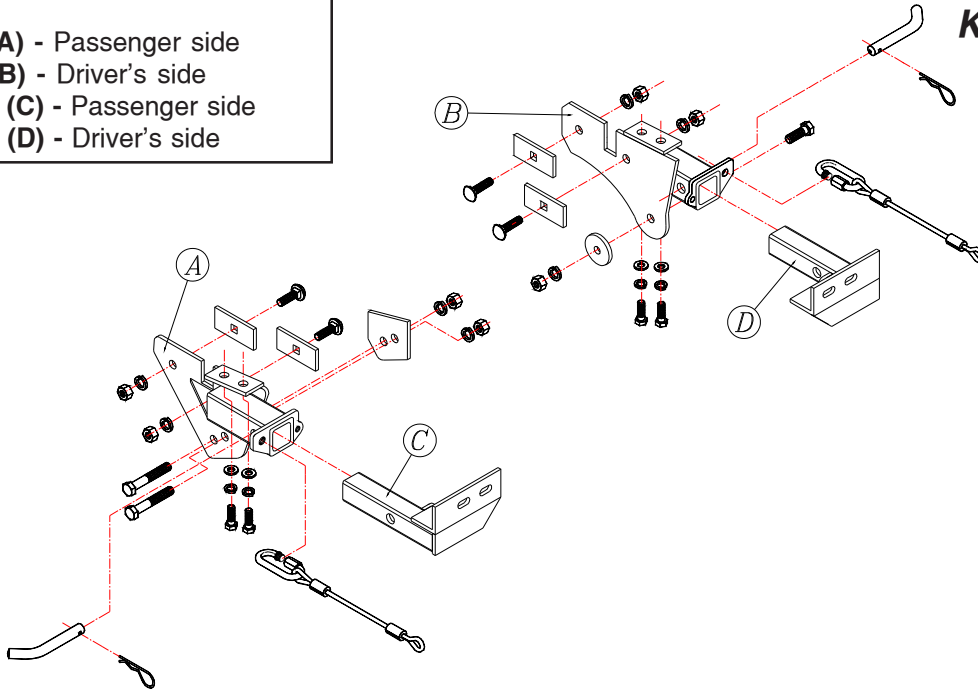
# BASEPLATE KIT INSTALLATION INSTRUCTIONS

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

**PARTS LIST:**

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

**KIT NO. 814-1**



031798

**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. 814-1

- 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 XL Series bracket is designed to mount to the front frame and tow hook on the passenger side and the tie down loop of the driver's side. The front braces are designed to be removable for a better visual appearance. To gain access to the installation area, remove the lower skid pan. This is accomplished by removing four bolts holding the pan. The front frame tubes will now be visible.
- Work on one side at a time starting with the passenger side. Remove the two bumper mounting bolts located beside the frame under the bumper.
- Hold the passenger side brace to the side of the tow hook and frame. Bolt through the brace, tow hook and special two hole backing plate with two 1/2" x 2 1/2" bolts, lock washers and nuts. *Note:* it may be a tight fit between the bumper plastic and the frame but it will fit. *Note:* 10mm hardware is provided if weld nuts are present in frame.
- Locate the rear side mounting hole in the brace. Fish wire a 1/2" x 1 1/2" carriage bolt and 1/4" x 1 1/2" x 3" sq. hole backing plate through the front of the frame and into the mounting hole.
- Align the brace and tighten the bolts, then using the brace as a template for drilling, drill a 17/32" hole into the side of the frame.
- Now, fish wire another 1/2" x 1 1/2" carriage bolt and 1/4" x 1 1/2" x 3" backing plate into plate. Finish with a 1/2" nut and lock washer.
- Repeat steps 2 to 6 for the remaining driver side brace with the exception of using a 1/2" plate washer with one 1/2" x 1 1/2" bolt through the tow ring.
- Torque all bolts to the specifications below.
- Hold the skid pan which was removed earlier, in position and mark where it will have to be trimmed to fit. Trim to fit around the receiver braces and reinstall.
- Insert the front braces into the receivers and pin using 5/8" draw pins and 1/8" spring pins.
- Install the tow bar according to the manufacturer's instructions then tighten all bolts to the torque specifications below.
- Connect the 10" safety cables to the receiver braces with the included cable connectors. Connect the other end of the safety cables to the tow bar and the tow vehicle's safety cables.

### HARDWARE LIST:

2-1/2" X 2 1/2" BOLTS	4-1/4" X 1 1/2" X 3 1/4" SQ. HOLED BACKING PLATES
4-1/2" X 1 1/2" CARRIAGE BOLTS	1-5/16" X 3 1/2" X 3 7/8" TWO HOLE BACKING PLATES
1-1/2" X 1 1/2" BOLT	1-1/2" PLATE WASHER
7-1/2" NUTS	2-CABLE CONNECTORS
7-1/2" LOCK WASHERS	2-10" SAFETY CABLES
4-10MM X 1.25 X 35MM BOLTS	
4-10MM LOCK WASHERS	
4-10MM FENDERWASHERS	

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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.						