

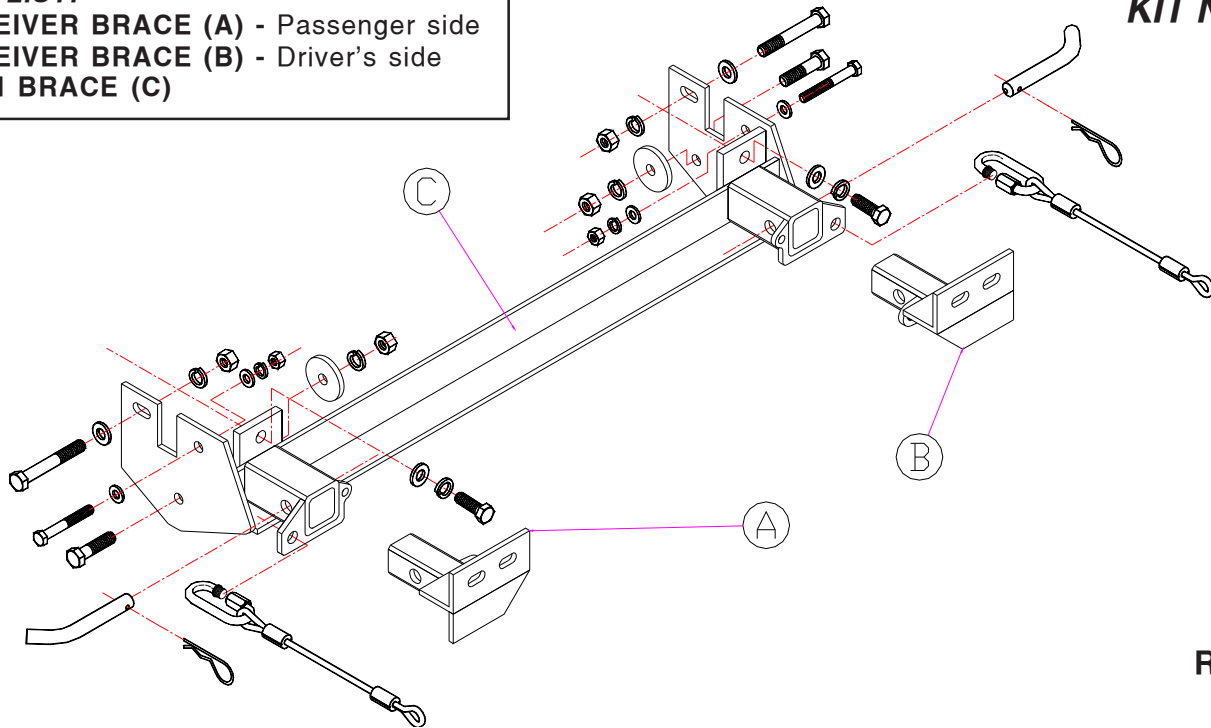
# BASEPLATE KIT INSTALLATION INSTRUCTIONS

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

**PARTS LIST:**

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

**KIT NO. 815-1**



**R-120897**

**IMPORTANT:** All brackets **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
- Use lock washers on all fasteners

## **WARNING**

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

- Installation of most mounting brackets requires moderate mechanical aptitude and skills. We strongly recommend professional installation by an experienced installer.
- The installer must read the instructions and use all bolts and parts supplied. Failure to do so could result in loss of the towed vehicle.
- Use Loctite® Red on all bolts used for mounting this bracket.
- Do not use this document for custom fabrication, as it may not show all parts or structural components. Custom fabrication or an attempt to copy this bracket design could result in loss of the towed vehicle.
- Every 3,000 miles, the owner must inspect the fasteners for proper torque, according to the bolt torque requirements chart on the last page of these instructions. The owner must also inspect all mounts and brackets for cracks or other signs of fatigue every 3,000 miles. Failure to do so could result in loss of the towed vehicle.
- The owner must check the vehicle manufacturer's instructions for the proper procedure(s) to prepare the vehicle for towing. Some vehicles must be equipped with a transmission lube pump, an axle disconnect, driveline disconnect or free-wheeling hubs before they can be towed. Failure to properly equip the vehicle will cause severe damage to the transmission.
- If running changes were made by the vehicle manufacturer after this bracket was designed, some bolts or other fasteners in the hardware pack may no longer be the correct size. It is the installer's responsibility to verify that the bracket is securely fastened to the vehicle and fitted with the correct hardware to account for these changes. Failure to securely

fasten the bracket could result in loss of the towed vehicle.

- If the towed vehicle has been in an accident, it must be properly repaired before attaching the bracket. Do not install the bracket if any structural frame damage is found. Failure to repair the damage could result in the loss of the towed vehicle.
- Some motorhome chassis have such a tight turning radius that you can damage your motorhome, towed vehicle, tow bar or bracket 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 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, motorhome and/or towed vehicle.
- 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. Refer to the cable instructions for proper routing. Failure to leave enough slack in the safety cables, or failure to connect the safety cables frame to frame, will result in the loss of the towed vehicle.
- This bracket is designed for use with ROADMASTER tow bars and ROADMASTER adaptors only. Using this bracket with other brands, without an approved ROADMASTER adaptor, may result in non-warranty damage or injury.
- Upon final installation, the installer must inspect the bracket to ensure adequate clearance, particularly around hoses, air conditioner lines, radiators, etc., or non-warranty damage to the towed vehicle will result.
- This bracket is only warranted for the original installation. Installing a used bracket on another vehicle is not recommended and will void the warranty.

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**KIT NO. 815-1**

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 one of our XL series which is partly removable. The lower brace attaches to the front and side of each front frame rail utilizing existing holes and bumper mounting bolts. The tow hook on the driver's side and the tow plate on the passenger side are also utilized as attachment points. To start, find the bumper mount bolts located in the front of each frame rail just behind and under the front bumper. These bolts are partially covered by the lower bumper and will take a thin wall socket to remove. If needed, the plastic may have to be trimmed around the bolts at this point to facilitate the main brace installation. Remove these bolts at this time.
2. Work on one side at a time. Bolt through the tie down plate on the passenger side using the provided 1/2" x 2" bolts and finish with a plate washers lock washer and a nut. Bolt through the tow hook on the driver's side and finish with a plate washer lock washer and a nut.
3. Locate the slotted hole on passenger side, bolt a 1/2" x 3 1/2" bolt through the slot and finish with lock washer and nut.
4. Repeat step #3 on the drivers side.
5. Now through the two front tabs bolt 12mm x 1.25 x 35mm bolts and finish with flat washers lock washers. This is bolted directly to the frame.
6. Next drill a 1/2" hole through the frame using the brace as a template. Bolt a 3/8" x 3 1/2" bolt and flat washers, lock washer and nut.
7. Torque all bolts to the specifications below.
8. Insert the front braces into the receivers and pin using 5/8" draw pins and 1/8" spring pins.
9. Install the tow bar according to the manufacturer's instructions then tighten all bolts to the torque specifications below.
10. 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:	4- 1/2" NUTS	2- 10MM FENDER WASHERS
2- 3/8" X 3 1/2" BOLTS	4- LOCK WASHERS	2- 5/8" DRAW PINS
4- 3/8" FLAT WASHERS	2- FLAT WASHERS	2- 1/8" SPRING PINS
2- 3/8" LOCK WASHERS	2- 1/4" PLATE WASHERS	2- 10" SAFTEY CABLES
2- 3/8" NUTS	2- 10MM X 1.25 X 35MM BOLTS	2- CABLE CONNECTORS
2- 1/2" X 3 1/2" BOLTS	2- 10MM LOCK WASHERS	
2- 1/2" X 2" BOLTS		

## 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.						