



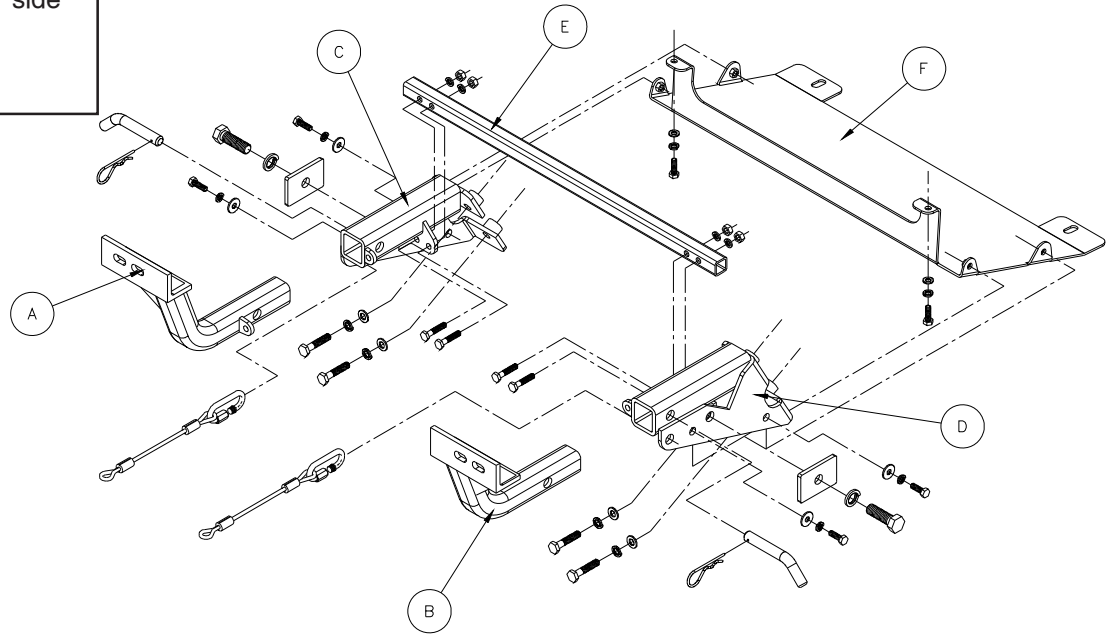
BASEPLATE KIT INSTALLATION INSTRUCTIONS

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

PARTS LIST:

- 1- FRONT BRACE (A) - Passenger side
- 1- FRONT BRACE (B) - Driver side
- 1- MAIN BRACE (C) - Passenger side
- 1- MAIN BRACE (D) - Driver side
- 1- CENTER BRACE (E)
- 1- SKID PLATE (F)

KIT NO. 818-1



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. 818-1

- 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 designed to be partly removable. The kit consists of the main receiver braces, front braces, center pan and a hardware pack. The main receiver braces mount behind and below the front bumper fascia to the front frame and tow loops. The front braces insert into the receiver brace on each side. Start by laying the kit out according to the illustration. This will give you a visual idea of how the kit installs and also confirm that the kit components are present and accounted for.
- Start by removing the front bottom gravel pan (four 12mm head bolts). This will permit access to tow hook and stabilizer bar mounting area. The gravel pan will be replaced with a new pan included with the kit.
- Working on one side at a time, remove the two stabilizer bar mounting bolts and discard. Hold a receiver brace in position over the stabilizer bar mount against the inside of the tow hook. Bolt through the rear of the brace with two 10mm x 1.25 x 50mm bolts, lock washers and flat washers.
- Now, find a 1/4" x 2" x 3" backing plate, a 5/8" x 2" bolt, and lock washer then bolt through the tow loop into the side of the receiver brace. *Note:* leave all mounting bolts loose for final adjustment.
- Repeat steps 3 and 4 for the remaining receiver brace.
- Locate center brace tube provided in kit and bolt between receiver braces to mounting plates with four 3/8" x 2" bolts, lock washers and nuts.
- Torque the rear mounting bolts to the specifications below then torque the large 5/8" bolts to 130-ft. lbs.
- Torque center brace bolts to specifications below.
- Insert the center gravel pan between the braces and bolt through the sides with four 8mm x 1.25 x 25mm bolts, lock washers and fender washers. Use two more 8mm x 1.25 x 25mm bolts with lock washers and flat washers for the front of the pan. Use the stock bolts removed in step 2 to secure the rear of the pan.
- Insert the front braces into the receiver tubes and secure with 5/8" draw pins and 1/8" spring pins.
- Install the tow bar according to the manufacturer's instructions and torque all mounting bolts to the specifications below.
- Attach one end of the included 10" safety cables to the lower front hole in the side mounting plate on each side of the receiver brace with the included cable connectors. Connect the other end to the tow vehicle's safety cables and the tow bar.

Hardware

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|--|----------------------|
| 4- 10mm x 1.25 x 50mm bolts | 2- 5/8" x 2" bolts |
| 4- 10mm flat washers | 2- 5/8" lock washers |
| 4- 10mm lock washers | 2- 10" safety cables |
| 6- 8mm x 1.25 x 25mm bolts | 4- 3/8" x 2" bolts |
| 2- 1/4" x 2" x 3" backing plates with 5/8" holes | 4- 3/8" nuts |
| 4- 8mm fender washers | 4- 3/8" lock washers |
| 6- 8mm lock washers | 2- cable connectors |
| 2- 8mm flat washers | 2- 5/8" draw pins |
| | 2- 1/8" spring pins |

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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.						