



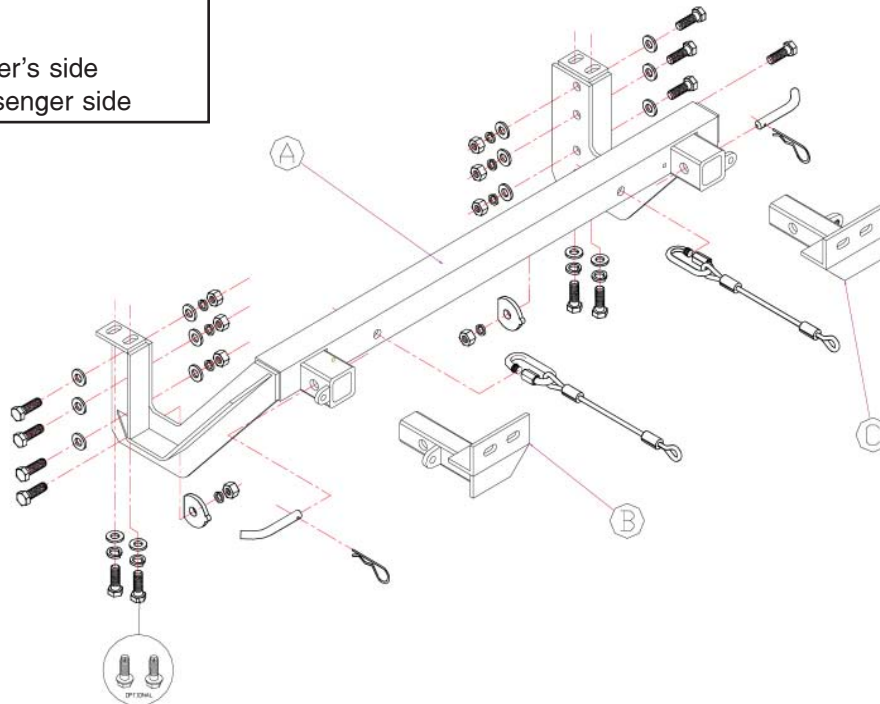
BASEPLATE KIT INSTALLATION INSTRUCTIONS

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

KIT NO. 461-1



022098

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. 461-1

- 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 bracket kit consists of a main brace, which utilizes the existing tow bracket mounting points and hardware. Remove the plastic splash panel fasteners surrounding the front tie down brackets. Pull the splash panels down and back to provide access to these points.
- Work on one side at a time and take two 10mm x 1.25 x 30mm bolts, flat washers, lock washers and a socket with an extension and bolt upward through the top holes of each main brace into the existing threaded holes in the frame. *Note:* 1998 and later vehicles may not have these threaded holes. In this case, push the receiver brace up into position and install with the 7/16" bolts. Using a long drill bit, drill two 1/4" holes through the bottom of the frame using the slotted top holes as a drill template. Use a 3/8" drive air wrench or ratchet to install two 3/8" x 1 1/2" self tapping bolts. Now, take three of the 7/16" x 1 1/2" bolts provided and bolt through the upper three holes in the side of the brace and the side of the tow bracket using flat washers, lock washers and nuts. *Note:* on some cars, the holes may have to be enlarged slightly.
- Bolt through the lower hole in the brace and tow bracket using a 1/2" x 1 1/2" bolt, clipped plate washer, lock washer and nut.
- Tighten the two original top bolts first, then tighten the lower bolts. Use the torque values in the torque chart below.
- Mount and align the tow bar according to the manufacturer's instructions, then tighten bolts to the torque specifications below.
- Reinstall the plastic splash panels removed in step 1, then attach the included safety cables to the receiver brace with the included cable connectors. Attach the ends to the tow vehicle's safety cables and the tow bar.

Hardware –

- | | | |
|-----------------------------|-------------------------------|-------------------------------------|
| 4- 10mm x 1.25 x 30mm bolts | 6- 7/16" nuts | 2- 12" safety cables |
| 4- 10mm fender washers | 2- 1/2" x 1 1/2" bolts | 2- 5/8" draw pins |
| 4- 10mm lock washers | 2- 1/2" lock washers | 2- 1/8" spring pins |
| 6- 7/16 x 1-1/2" bolts | 2- 1/2" nuts | 4- 3/8" x 1 1/2" self tapping bolts |
| 6- 7/16" lock washers | 2- 1/2" clipped plate washers | |
| 12- 7/16" flat washers | 2- cable connectors | |

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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.						