

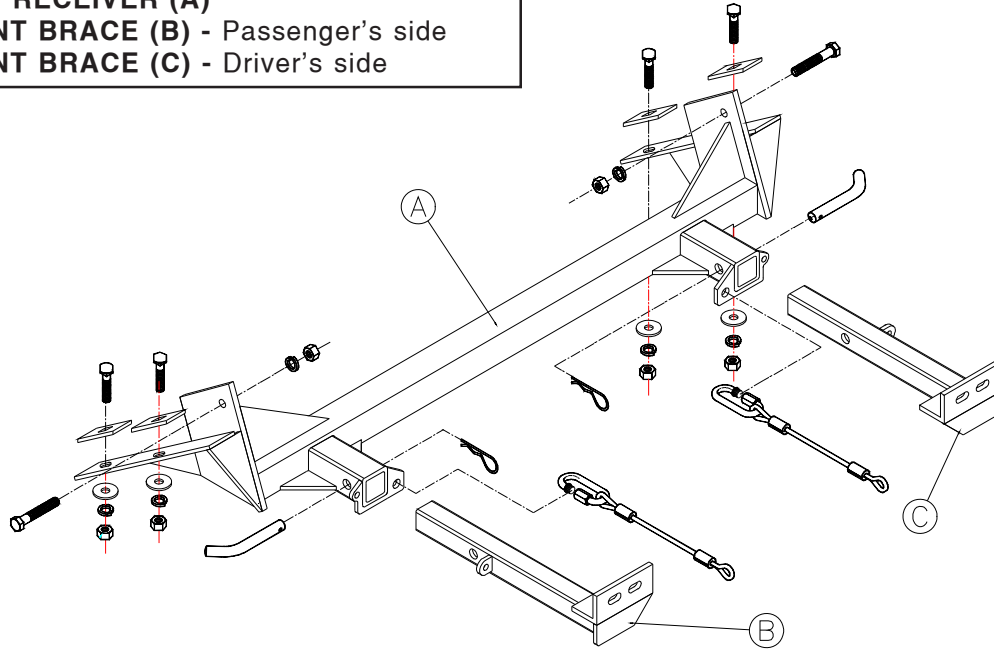
BASEPLATE KIT INSTALLATION INSTRUCTIONS

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

KIT NO. 459-1



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.



BASEPLATE KIT INSTALLATION INSTRUCTIONS

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

KIT NO. 459-1

- 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 kit is one of our XL series which is partly removable. The bulk of the main receiver brace is hidden behind the plastic nose skin and lower grille. Start the installation by removing four 10mm fasteners from the bottom of the bumper skin. This will allow you to pull the lower bumper skin down to access the area in front of the radiator. Remove two plastic retainers per side on the back of the bumper, holding the plastic air flow diverting panels. Push these panels back out of the way.
- Locate an existing hole in the bottom of each frame tube approximately 10" from the front of the frame. Fish wire a 1/2" x 2" clipped carriage bolt and 1/4" x 1 1/2" x 2 1/2" backing plate through a large side access hole in each frame tube into these existing bottom holes.
- Now locate a large bolt going through the frame and the end of the EA units on each side. Remove these bolts and substitute 1/2" x 3 1/2" bolts from the bolt kit. Push these bolts through from the outside of each frame tube through the EA units and into the inner wall of frame until flush with the inner wall. The main receiver brace will be installed between the frame tubes on these bolts.
- Take the main receiver brace and install between the frame tubes against the bottom of the frame. Push the 3-1/2" bolts through the main brace and bolt both these bolts and the bottom bolts installed in step 2 using 1/2" washers and nuts.
- Using the two remaining holes as templates, drill two holes into the bottom of the frame.
- Now fish wire a 1/2" x 2" carriage bolt and 1/4" x 1 1/2" x 2 1/2" backing plate through the access holes used in step 2 into the holes drilled in step 6 and bolt together using washers and nuts.
- Tighten these bolts to the torque specifications below.
- Reinstall the plastic air panels and retainers, trimming to fit if necessary, replace the bumper skin retainers removed in step 1.
- Insert the front braces into the receivers and secure using 5/8" receiver pins and 1/8" spring pins.
- Install the tow bar according to the manufacturer's instructions, then torque all bolts to the specifications below.
- Attach one end of the 13" safety cables to the receivers with the provided cable connectors, attach the other end to the tow bar and the tow vehicle's safety cables.

Hardware

- 2- 1/2" x 3-1/2" bolts
- 4- 1/2" flat washers
- 4- 1/2" x 2" clipped carriage bolts
- 6- 1/2" nuts
- 6- 1/2" lock washers
- 4- 1/4" x 1-1/2" x 2-1/2" sq. hole backing plate
- 2- 5/8" draw pins
- 2- 1/8" spring pins
- 2- 13" safety cables
- 2- cable connecte

3-10-00

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.						

All illustrations and specifications contained herein are based on the latest information available at the time of publication approval. ROADMASTER, INC. reserves the right to make changes at any time without notice in material, specification and models or to discontinue models.