

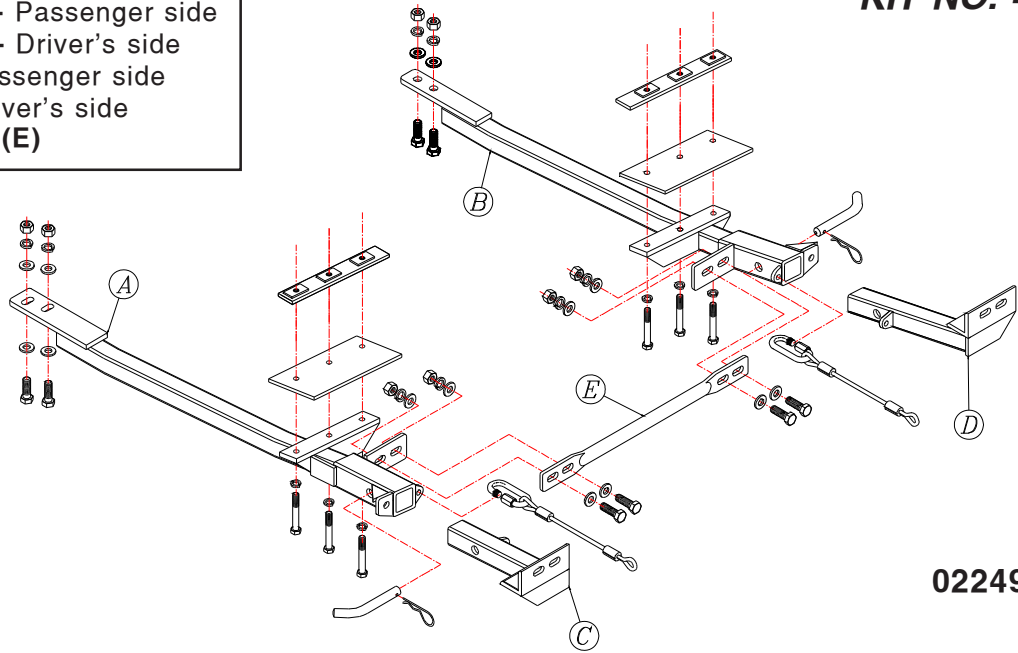
BASEPLATE KIT INSTALLATION INSTRUCTIONS

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

PARTS LIST:

- 1- LOWER RECEIVER (A) - Passenger side
- 1- LOWER RECEIVER (B) - Driver's side
- 1- FRONT BRACE (C) - Passenger side
- 1- FRONT BRACE (D) - Driver's side
- 1- FRONT CROSS BRACE (E)

KIT NO. 443-3



022498

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. 443-3

- 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 Bracket Series which is partly removable. It utilizes the front suspension subframe and front radiator cross member for mounting points. The kit consists of two main receiver braces, a cross brace, two front braces and a hardware pack. Included in the hardware pack are two large mounting plates and two threaded backing plates. The threaded backing plates must be installed between the bottom of the radiator and the top of the radiator cross member. To achieve this on most of the vehicles, the top plastic fairing and radiator supports will have to be removed and the radiator raised enough to provide working room between the radiator and the cross member. Remove the fastener screws, fairing and brackets then raise the radiator in preparation for the next steps.
- The rear of the receiver braces bolt through two existing holes per side in the suspension subframe. Find these holes and bolt the braces to the sub frame using the supplied 1/2" x 1 1/2" bolts, flat washers and lock washers. These holes may vary slightly between vehicles. On some vehicles, a hole may be missing or one hole may be slightly off from the hole pattern in the rear braces. In these cases, pick the holes which will align the braces evenly in the front of the car and under the radiator cross member. You will always have at least three holes available. Be sure the braces are mounted as illustrated with the center tube mounting clips pointing to each other. *Note:* a stiffener strut assembly is bolted to the bottom of the frame on GT convertibles with bolts and clips. Remove these bolts and sandwich the rear of the braces between the frame and stiffener plate. Bolt using the provided bolts. Support the front of the braces in preparation for the next steps.
- Assemble the front braces into the receiver braces and pin with 5/8" draw pins and 1/8" spring pins, then bolt the center tube brace between the receiver braces with four 1/2" x 1 1/2" bolts, flat washers, lock washers and nuts. Don't tighten yet – we will use this center brace to help align the braces to each other and the vehicle. Move the center braces in or out until the front mounting holes measure 30" and 27" between centers. Now tighten the center brace bolts to hold the setting.
- Find the center of the vehicle and align the braces to the center of the vehicle by measuring from the front of the braces to vehicle center. Adjust as necessary then tighten the rear bolts. Double check the alignment across the front and to the center of the vehicle.
- Make sure the receiver braces are against the radiator cross member, then drill six 3/8" holes through the radiator cross member using the braces as a template. *Note:* make certain all engine components are protected before doing so. You will notice that as you pushed the braces to the bottom of the cross member, that you also raised the plastic under the nose about an inch. This necessary to maintain the ground clearance on this vehicle.
- Bolt through the front cross member using the provided 3/8" x 3" bolts, lock washers and 1/4" x 1 1/2" x 10" threaded backing plates. Don't forget the 1/4" x 4" x 8" backer plates between the braces and the cross members. *Note:* do not over-tighten these bolts. Hand tighten to the torque specifications below.
- Mount the tow bar according to the manufacturer's instructions, align and torque all bolts to the specifications below. Connect the 12" safety cables to the main receiver braces with the provided cable connectors. Connect the other end to the tow vehicle's safety cables and the tow bar.

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.						



BASEPLATE KIT INSTALLATION INSTRUCTIONS

KIT NO. 443-3

Hardware List

- 8- 1/2" X 1-1/2" BOLTS
- 8- 1/2" LOCK WASHERS
- 14- 1/2" FLAT WASHERS
- 8- 1/2" NUTS
- 2- 1/4" X 1-1/2" X 9 1/4" THREADED BACKING PLATES
- 2- 1/4" X 4" X 8" BACKER PLATES
- 6- 3/8" X 3" BOLTS
- 6- 3/8" LOCK WASHERS
- 2- 12" SAFETY CABLES
- 2- CABLE CONNECTORS
- 2- 5/8" DRAW PINS
- 2- 1/8" SPRING PINS

022498

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

Thread Size	Grade	Torque
5/16	5	13 ft./lb.
3/8	5	23 ft./lb.
7/16	5	37 ft./lb.
1/2	5	56 ft./lb.
5/8	5	150 ft./lb.

METRIC BOLTS

Thread Size	Grade	Plated/Unplated
8mm-1.0	8.8	20 ft./lb. 18 ft./lb.
8mm-1.25	8.8	19 ft./lb. 18 ft./lb.
10mm-1.25	8.8	38 ft./lb. 36 ft./lb.
10mm-1.5	8.8	37 ft./lb. 35 ft./lb.

METRIC BOLTS

Thread Size	Grade	Plated/Unplated
12mm-1.25	8.8	70 ft./lb. 65 ft./lb.
12mm-1.5	8.8	66 ft./lb. 61 ft./lb.
12mm-1.75	8.8	65 ft./lb. 60 ft./lb.
14mm-2.0	8.8	104 ft./lb. 97 ft./lb.