



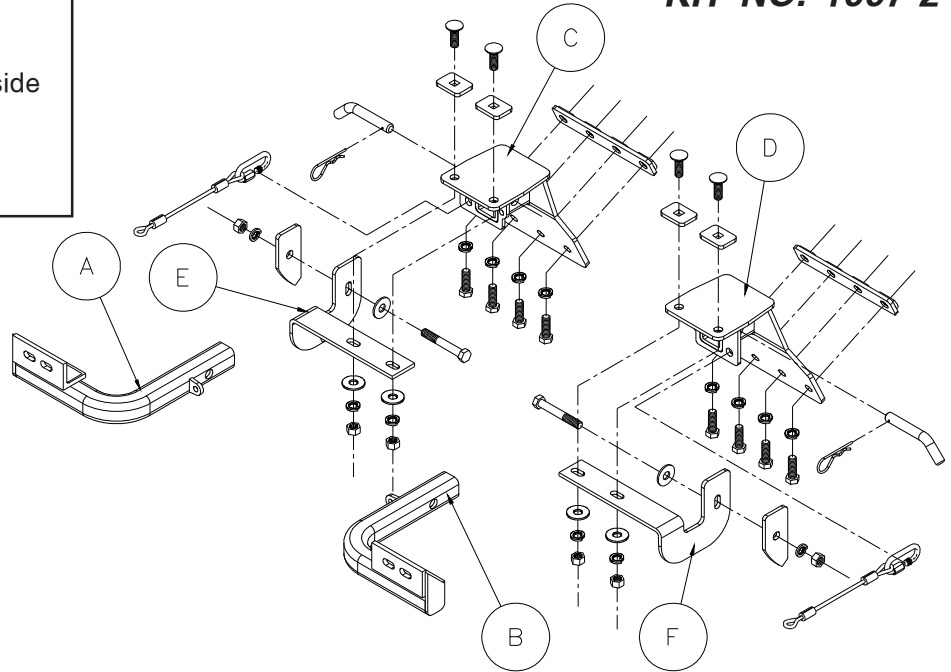
BASEPLATE KIT INSTALLATION INSTRUCTIONS

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- RECEIVER BRACE (C) - Passenger side
- 1- RECEIVER BRACE (D) - Driver side
- 1- SIDE BRACE (E) - Passenger side
- 1- SIDE BRACE (F) - Driver side

KIT NO. 1007-2



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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- 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 a **XL Series** bracket designed to disconnect, leaving a minimum visual impact on the front of the vehicle when not being towed. The kit consists of two receiver braces, two front braces, two side braces and the mounting hardware. It utilizes the bottom of the bumper, the front frame cross member and the frame as attachment points. The braces fit through the lower radiator air flow slot under the bumper. The grill and plastic bumper skin must be temporarily removed for access. The grill is held on by one small center screw and two plastic fasteners in each lower corner. One more screw per side is located in the front of each fenderwell. Molded plastic clips along its top periphery also help secure it. Remove the screws then push in the middle of the plastic fasteners in each corner and a sharp tug will pull the grill free of the clips.

- The plastic bumper skin is held on by nine screws on top of the bumper, two screws and two plastic fasteners on the bottom, three screws in the middle and one screw on each side under the front black plastic fender liners. Remove the screws on each side first, by removing the forward most plastic fastener holding the fender liner on each side, then pull back to expose the screws.
- Remove the two lower screws and three middle screws next, then pull the bumper skin forward slightly to expose the two plastic fasteners and remove these also.
- Now, remove the remaining nine shoulder screws in the top of the bumper and pull forward to remove.
- Hold the first receiver brace in the front of the front frame member and below the bumper. It should be positioned over four large holes in the front of the cross member. The safety cable link hole on the front of the receiver should be pointed to the outside of the vehicle. Insert a 1/4" x 1 1/2" x 8 5/8" threaded backing plate through the bottom of the cross member and bolt through the brace and cross member using four 1/2" x 1 1/2" bolts and lock washers. Tighten enough to hold the brace in place.
- Repeat step 5 for the remaining receiver brace.
- Insert the receiver tubes into the front of the braces and pin using the supplied 5/8" draw pins and 1/8" spring clips. *Note:* it may be necessary to use a pair of long-nosed pliers.
- Measure across the front slotted mounting holes and adjust the braces in or out until the outer slotted holes are 30" center to center. Make sure the braces are against the bottom of the bumper then tighten.
- Now, drill four 1/2" holes into the bottom of the bumper using the braces as templates. Bolt through the bumper, the receiver braces and side braces using four 1/2" x 1 1/2" carriage bolts, four 1/4" x 1 1/2" x 2" sq. hole backing plates, lock washers and nuts. Be sure the backing plates and carriage bolts are inside the bumper.

06/02/04

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.



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10. A 1/2" hole will now have to be drilled through the frame on each side to fasten the side braces. To do this you will have to drill from the outside of the frame, through the frame and the side brace hole using the specially shaped 1/4" backing plate as a drill template. Insert the special backing plate between the bumper and frame box with the curved portion even with the bottom of the frame, this should line up with the slotted hole in the side brace. *Note:* if the drill motor is too large to fit in the confined area, the bumper will have to be temporarily removed. Do this by removing two top bolts and two bottom bolts and the four nuts holding the bumper to the braces. When the holes are drilled, reinstall the bumper.
11. Bolt through drilled frame holes, special backing plates, and side braces with 1/2" x 3 1/2" bolts, flat washers, lock washers, and nuts.
12. Torque all bolts to the specifications below, then remove the front braces from the receivers.
13. Reinstall the plastic bumper skin and grill by reversing steps 1 through 4.
14. Insert the front braces into the receivers and pin using the supplied 5/8" draw pins and 1/8" spring pins.
15. Mount the tow bar according to the manufacturer's instructions. Use the provided cable connectors to connect the 13" safety cables to the lower receiver braces, then connect the safety cables to the tow vehicle's safety cables.

HARDWARE LIST:

- 4- 1/2" X 1 1/2" CARRIAGE BOLTS
- 8- 1/2" X 1 1/2" BOLTS
- 2- 1/2" X 3 1/2" BOLTS
- 14-1/2" LOCK WASHERS
- 6- 1/2" FLAT WASHERS
- 6- 1/2" NUTS
- 2- 1/4" X 1 1/2" X 8 5/8" THREADED BACKING PLATES
- 4- 1/4" X 1 1/2" X 2" BACKING PLATES
- 2- 5/8" DRAW PINS
- 2- 1/8" SPRING PINS
- 2- CABLE CONNECTORS
- 2- 13" SAFETY CABLES
- 2- 1/4" FORMED BACKING PLATES

11/20/01

BOLT TORQUE REQUIREMENTS

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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.