

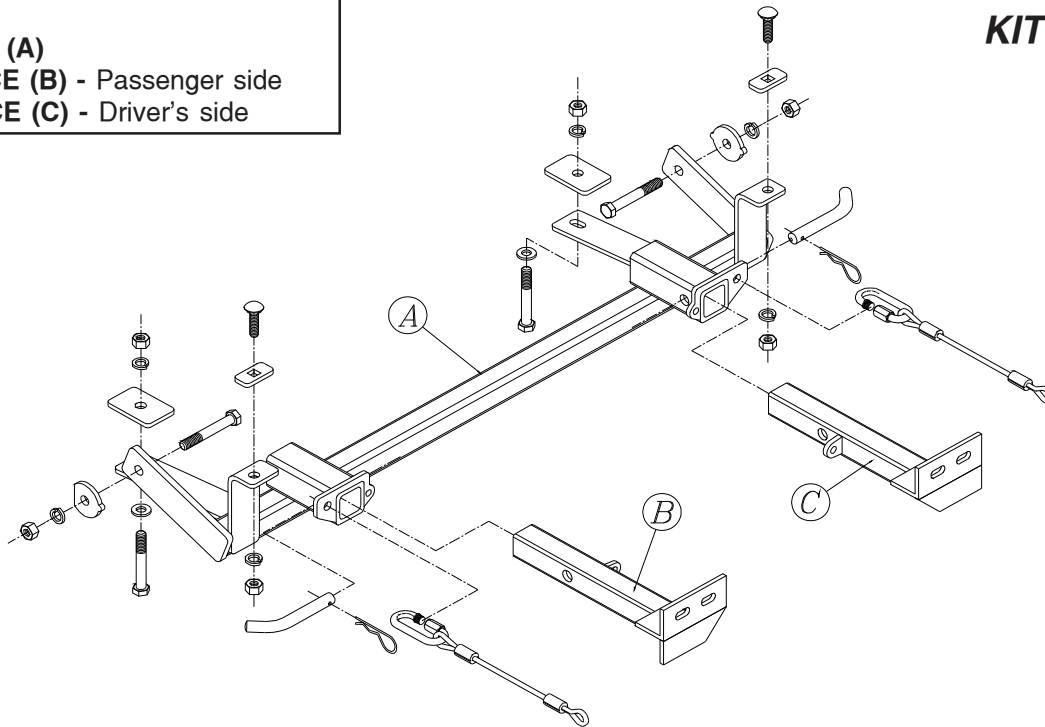
BASEPLATE KIT INSTALLATION INSTRUCTIONS

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

KIT NO. 2503-2



7/7/99

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
- Use lock washers on all fasteners

WARNING

Failure to follow the below warnings and the installation instructions may result in voiding your warranty, property damage, the loss of your towed vehicle, personal injury or even death.

- Installation of most baseplates 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.
- Use Loctite® Red on all bolts used for mounting this baseplate.
- 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 mounting points for cracks or other signs of fatigue every 3,000 miles.
- 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.
- Do not weld. This baseplate is designed to be bolted to the vehicle. Welding will void the warranty.
- Do not use this document for custom fabrication, as it may not show all parts or structural components 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 baseplate. Do not install the baseplate if any structural frame damage is found.
- If running changes were made by the vehicle manufacturer after this

kit 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 this kit is securely fastened to the vehicle and fitted with the correct hardware to account for these changes.

- 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 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 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.
- Upon final installation, the installer must inspect the baseplate to ensure adequate clearance, particularly around hoses, air conditioner lines, radiators, etc.
- 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. 2503-2

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 is one of our XL Series which has removable front braces. It consists of the main receiver brace, two front braces and a hardware kit. The receiver brace will mount to the frame and the front bumper. If the car has fog lights, they will have to be removed. Begin by removing the lower splash guard and the fog lights or the plastic covers where fog lights would normally go.
2. Push the main receiver brace into position from behind the front plastic and mark the mounting holes and areas where the plastic will have to be trimmed to fit the brace.
3. Remove the brace then trim the plastic and enlarge the existing holes which were marked with a 1/2" drill.
4. Fish wire two 1/2" x 1 1/2" carriage bolts and 1/4" x 1" x 2" backing plates into the bumper holes which line up with the receiver brace front mounts.
5. Put the receiver brace back in place and bolt to the bumper using nuts and lock washers.
6. Now, bolt the side frame mounts to the frame using two 1/2" x 3 1/2" bolts, 1/2" plate washers, lock washers and nuts. The plate washers will go to the outside of the frame with the clipped plate washer on the passenger side. The driver side has a plastic canister in the way which will necessitate leaving the lock washer off on this bolt.
7. The rear most receiver mounts bolt up through the frame with two 1/2" x 3 1/2" bolts, 1/4" x 2" x 3" backing plates, lock washers and nuts. The top holes in the frame have rubber plugs which will have to be removed. If the bottom holes do not line up with the brace holes, use the brace as a template and re-drill the holes with a 1/2" drill bit.
8. Tighten all bolts starting with the bumper bolts, then the side bolts and the rear mounting bolts to the torque specifications below.
9. Trim the lower splash guard to fit and reinstall.
10. Install the front braces in the receiver brace and pin with 5/8" draw pins and 1/8" spring pins.
11. Mount the tow bar according to the manufacturers instructions and torque all bolts to the specifications below.
12. Install the 10" safety cables with the included cable connectors on the receiver brace. Connect the other end to the tow vehicle's safety cables.

HARDWARE LIST:

- 2-1/2" X 1 1/2" CARRIAGE BOLTS
- 4-1/2" X 3 1/2" BOLTS
- 6-1/2" LOCK WASHERS
- 6-1/2" NUTS
- 1-1/2" PLATE WASHERS
- 1-1/2" CLIPPED PLATE WASHER
- 2-5/8" DRAW PINS
- 2-1/8" SPRING PINS
- 2-CABLE CONNECTORS
- 2-10" SAFETY CABLES
- 2-1/4" x 1" x 2" SQ. HOLE BACKING PLATES
- 2-1/4" x 2" x 3" PLATE WASHERS

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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.						