



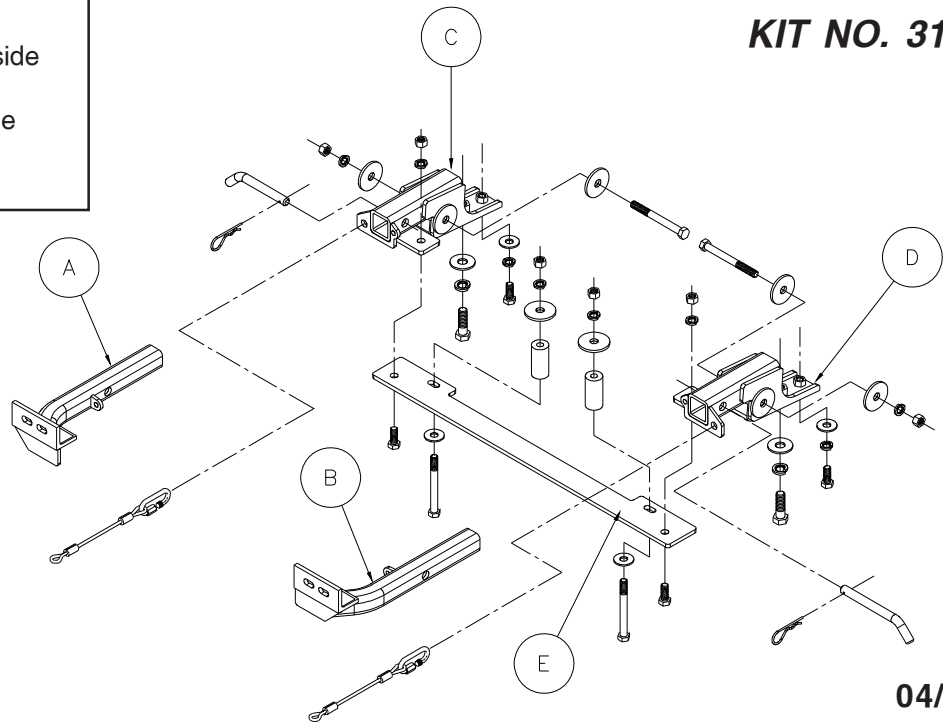
# BASEPLATE KIT INSTALLATION INSTRUCTIONS

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's side
- 1- MAIN BRACE (C) - Passenger side
- 1- MAIN BRACE (D) - Driver's side
- 1- CROSS BRACE (E)

KIT NO. 3112-1



04/01/02

**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. 3112-1

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 kit is one of our XL series, which is designed to be partly removable. The kit consists of the main receiver braces, front braces, center brace and a hardware pack. The main receiver braces replace the stock tow hooks and mount in the frame on each side. The front braces insert into the receiver braces on each side. Start by laying the kit out according to the illustration. This will give you a visual idea of how the kit installs and also confirm that the kit components are present and accounted for.
2. Start by removing the stock front tow hooks located in the front frame. This will require removing two bolts on each side and one bottom bolt (18mm heads) on each tow hook. The new receiver braces will mount in the same area and replace the tow hooks. The receiver braces will use the front mounting holes in the sides of each frame and two lower holes.
3. Remove the bottom bumper mounting bolt (18mm head) on each side then reach under the bumper to access the spring nut mounted on the frame. Remove these nuts by pushing toward the rear of the vehicle. They will not be replaced.
4. Insert a receiver brace into the front of the frame and bolt through the original rearmost tow hook mounting hole with a 1/2" x 1 1/4" bolt, flat washer and lockwasher. *Note:* this hole may have to be made wider on some vehicles.
5. Bolt through the front bottom frame hole with a 5/8" x 1 3/4" bolt, lockwasher and flat washer.
6. Bolt through the receiver brace and the original tow bracket-mounting holes located on both sides of the frame with a 1/2" x 4 1/2" bolt, plate washers, lock washer and nut. Bolt from the inside of the frame to the outside with the plate washers against the frame on both sides.
7. Repeat steps 3 through 6 for the remaining side.
8. Insert the cross brace behind the fascia below and between the receiver braces with the electrical plate forward close to the driver's side. Bolt to the receivers with two 1/2" x 1 1/2" bolts, lock washers and nuts.
9. Bolt through the two bumper mounts with 1/2" x 4 1/2" bolts, 1/2" plate washers, 1 1/4" OD x 2 9/16" pipe spacers, lock washers, flat washers and nuts. *Note:* the bolts will replace the original bumper bolts and spring nuts. The plate washers are installed on top of the bumper mount with the large spacers between the bumper mounts and the cross brace.
10. Torque all mounting bolts to the specifications below.
11. Insert the front braces into the receiver tubes and pin with 5/8" draw pins and 1/8" spring pins.
12. Install the tow bar according to the manufacturer's instructions and torque all mounting bolts to the specifications below.
13. Attach one end of the tow vehicle's safety cables to the lower front hole in the side mounting plate on each side of the receiver brace with the included cable connectors. Connect the other end to the tow vehicle's safety cables and the tow bar.
14. A universal wiring connector plate is also available for your use on the cross brace.

### 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.						



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## Hardware

- 2- 1/2" x 1 1/4" bolts
- 2- 1/2" x 1 1/2" bolts
- 2- 5/8" x 1 3/4" bolts
- 4- 1/2" x 4 1/2" bolts
- 4- 1/2" flat washers
- 6- 1/2" plate washers
- 2- 5/8" flat washers
- 2- 5/8" lock washers
- 2- 1 1/4" OD x 2 9/16" spacers
- 8- 1/2" lock washers
- 6- 1/2" nuts
- 2- cable connectors
- 2- 5/8" draw pins
- 2- 1/8" spring pins
- 2- 8" safety cables, 8,000 lb, rated

04/01/02

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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.