

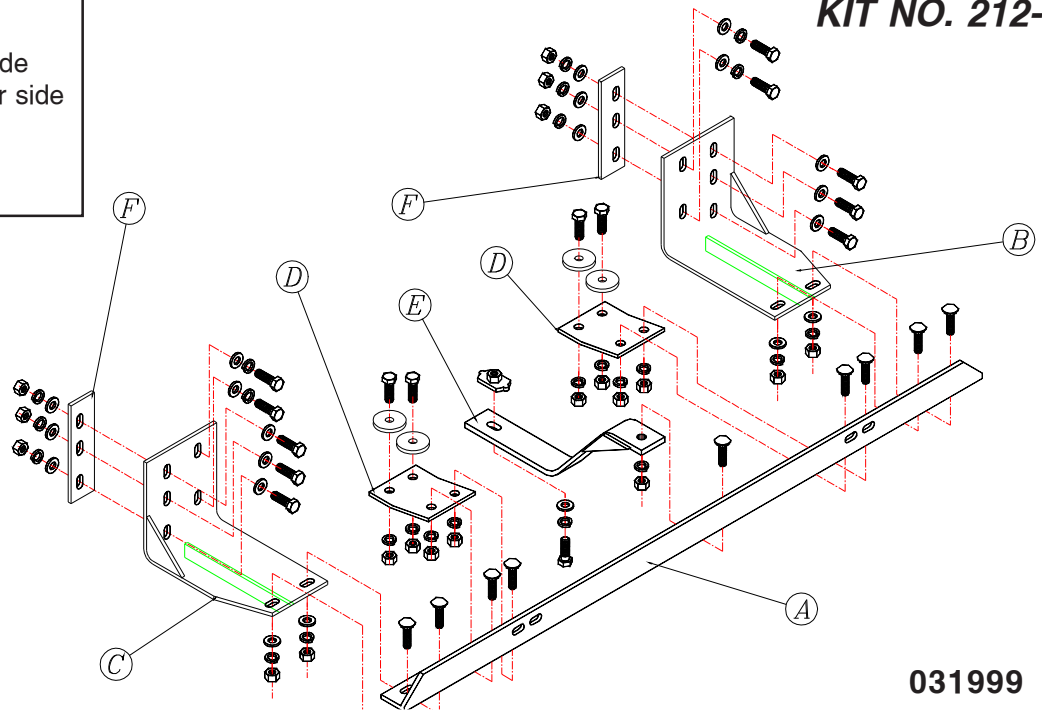
BASEPLATE KIT INSTALLATION INSTRUCTIONS

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

PARTS LIST:

- 1- FACE PLATE (A)
- 1- MAIN BRACE (B) - Driver's side
- 1- MAIN BRACE (C) - Passenger side
- 2- BUMPER BRACES (D)
- 1- CENTER BRACE (E)
- 2- BACKING PLATE (F)

KIT NO. 212-0



031999

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. 212-0

- 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 designed to fit behind the front bumper and uses the bumper bracket mounts and motor mount as attachment points. Begin by removing the front bumper. Remove the two nuts on each side that hold the bumper plastic to the fender and remove backing plate. Set aside for reinstallation later.
- Remove the two bolts on each side that hold the bumper brackets to the front of the car and discard bolts. Pull the bumper straight off the front of the car.
- Locate a main brace(B or C) and install on the front of the car with two 10mm x 1.5 x 45 bolts, lock washers and flat washers. Install braces so that the two oval holes are over the holes left by the bumper bracket and the three holes in the brace are to the outside.
- Temporarily install the face plate (A) onto the main braces and bolt the face plate to the main braces with four 1/2" x 1 1/2" carriage bolts, flat washers and nuts. Align the main braces so that they are level with each other, then tighten the four bolts at the face plate. Again check main brace alignment and tighten the four 10mm bolts previously installed.
- Using the main braces as templates, drill three 17/32" holes through the body metal on each side. Insert a 1/2" x 1 1/2" bolt with a flat washer through the main brace and body metal, then install the three hole backing plate, flat washers, lock washers and nuts on the back side of the body metal. Torque all six 1/2" bolts to the torque chart below.
- Remove the face plate and the four 10mm bolts from the main braces. Go to the bumper and remove four nuts on each side that secure the bumper brackets to the bumper and save. Bolt the bumper brackets to the main braces with the 10mm bolts previously removed. Align the brackets so that they are even with each other and torque the four 10mm bolts to the torque chart below. Install the bumper onto the bumper brackets(some models will require the plastic skin to be cut in order to mount the bumper) then install the face plate back onto the main braces with the 1/2" carriage bolts, flat washers, lock washers and nuts.
- Locate the two bumper braces and loosely bolt to the bottom of the face plate with four 1/2" carriage bolts, lock washers and nuts. Drill one 17/32" hole through the brace and into the bottom of the bumper, then bolt through with a 1/2" x 1 1/2" bolt, plate washer(on the inside of the bumper), lock washer and nut. Torque the three bolts to the torque chart below, then drill the fourth hole into the bumper and bolt through in the same manner.
- Insert a 1/2" x 1 1/2" carriage bolt down through the hole located in the center of the face plate. Install the center brace(D) onto this bolt and finish with a lock washer and nut, hand tight at this time. Insert the nutted plate washer into the lower motor mount, then fasten the lower portion of the center brace to the motor mount with a 1/2" x 1 1/2" bolt, lock washer and flat washer.
- Torque all bolts according to the chart below. Mount the tow bar according to the manufacturer's instructions.

Hardware List

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|---------------------------------|-----------------------|---------------------------------|
| 11- 1/2" x 1-1/2" bolts | 17- 1/2" flat washers | 4- 1/2" plate washers |
| 9- 1/2" x 1-1/2" carriage bolts | 19- 1/2" lock washers | 1- nutted backing plate |
| 4- 10mm x 1.5 x 45 bolts | 4- 10mm flat washers | 2- 1/4" x 4" x 5" bumper braces |
| 20- 1/2" nuts | 4- 10mm lock washers | 2- three hole backing plates |

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.						