

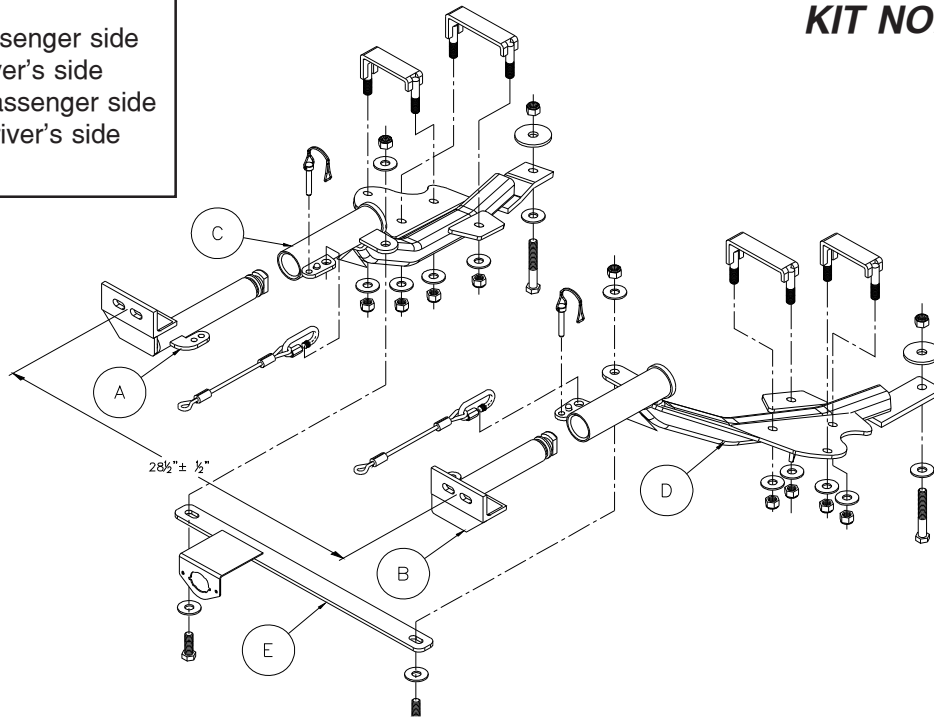
BASEPLATE KIT INSTALLATION INSTRUCTIONS

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

KIT NO. 523102-1



02-11-11

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. 523102-1

1. This is one of our EZ lock bracket series, which allows the visible front portion of the brackets to be easily removed from the front of the car by rotating the front braces. The bracket kit consists of two main receiver braces, two tubular front braces, a middle alignment brace and a hardware pack. The rear receiver braces mount to the bottom of the sub frame and protrude through the lower grille below the headlights and the bumper. The front tubular braces are inserted into the rear braces and rotated 90 degrees to lock in place. The sides of the lower grille will have to be trimmed to fit around the tubular portion of the main braces or left off. Note: if left off, retain the sides of the lower grille for replacement if the bracket is ever removed. The lower splash shield on the passenger side will have to be loosened. Before starting the installation, lay out the kit components as it is illustrated. This will give you a visual idea of how the components work and also confirm that everything is present and accounted for.
2. **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 by removing three 9mm fasteners holding the lower front grille then remove the grille and set aside. Remove three 9mm bolts in the bottom of the passenger side splash panel and leave loose. This will provide access to the subframe mounting area and bumper fascia.
3. Starting with the driver side, take a large 4½" id U- bolt and position over the subframe with the shorter leg to the front of the subframe. Take the driver side receiver brace and insert the front of the brace through the front grill opening from the back, under the bumper and bumper fascia. Fit through the matching mounting holes in the brace and bolt in position with ½" nylock nuts. Hold the back of the brace to the bottom of the subframe lining up the rear most mounting hole with the existing through hole in the subframe. Bolt through the brace and subframe with a ½" x 3½" bolt, plate washer and lock nut. Tighten enough to hold the brace in position.
4. Take a smaller 3 5/8" id U bolt and position over the outer portion of the subframe with the short leg to the front then bolt through the brace using ½" nylock nuts.
5. Repeat steps three through four for the passenger-side receiver brace.
6. Install the center brace between the receiver braces with ½" x 1½" bolts, flat washers and nylock nuts. Tighten enough to hold a position once aligned.
7. Install the front braces by inserting them vertical to the ground, push in and twist down to lock in place. Using the drawing on the first page as a reference, measure between the two front braces, ensuring that the distance is still 28" +/- ½". Center the braces on the vehicle, then tighten the center brace installed in step 6.

02-11-11

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

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

KIT NO. 523102-1

8. Once aligned, tighten all mounting bolts and U bolts to the torque specifications below. Recheck the measurements, to make certain this distance is still 28" +/- 1/2".
9. Replace the three 9mm head bolts on the passenger side removed from the lower splash shield. You should be able to stretch the splash shield over the rear brace; if not, relocate innermost hole slightly and reinstall.
10. At this point decide whether to reinstall the lower grille by trimming to fit or leaving off and saving for reinstallation at a later date. If you want to reinstall, trim the grille ends to fit around the braces and reinstall with screws removed in step 2.
11. Mount the tow bar according to the tow bar manufacturer's instructions. Install the 10" safety cables to the side of the main receiver portion of the bracket with quick links provided. Attach the other end to the tow vehicle's safety cables and the tow bar.

Hardware list

- 2-1/2" x 3 1/2" bolts
- 2-1/2" x 1 1/2" bolts
- 14-1/2" flat washers
- 12-1/2" nylock nuts
- 2- 1/2" x 4 1/2" id U bolts
- 2- 1/2" x 3 5/8" id U bolts
- 2- 1/2" plate washers
- 2-10" safety cables
- 2-quick links
- 2-safety pins

02-11-11

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. |