



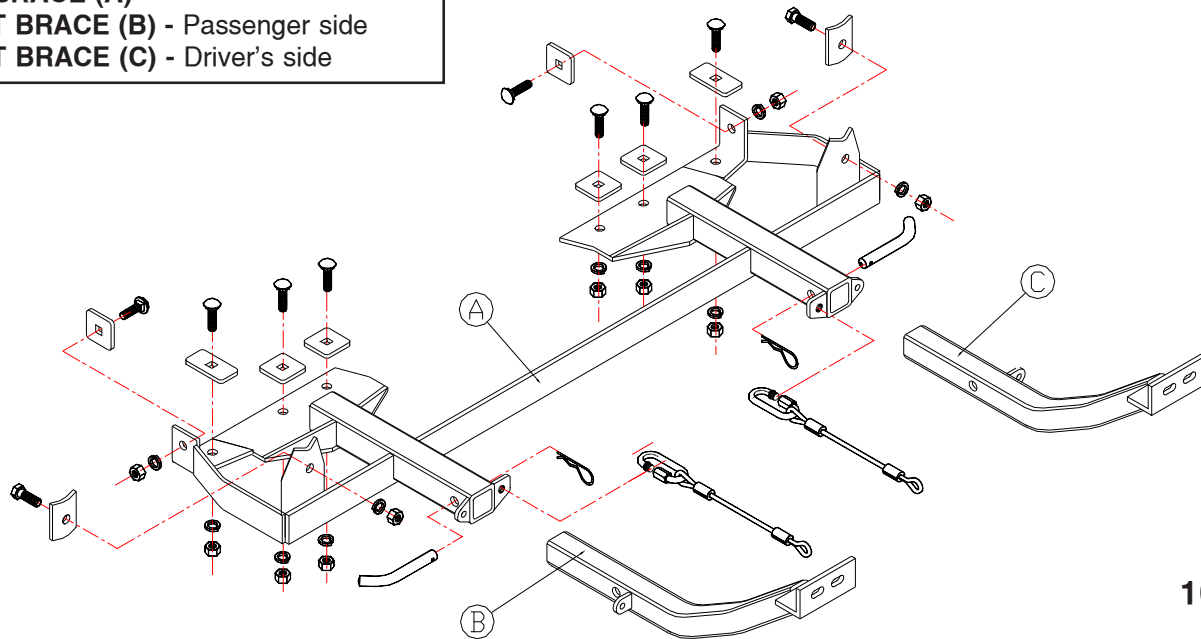
# BASEPLATE KIT INSTALLATION INSTRUCTIONS

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. 170-1



10-08-98

**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. 170-1

- 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 partly removable. It utilizes the lower front subframe as a mounting base for the lower receiver brace. Remove the rubber splash guard fasteners on the drivers side and pull down for access to the side of the subframe.
- Hold the lower receiver brace in position against the bottom of the sub frame with the front mounting tabs tight against the front of the subframe. The rear outer mounting tabs should be over existing holes in the side of the sub frame cross member. Block or clamp in this position and fish wire a 1/2" x 1 1/2" carriage bolts and 1/4" x 2" x 2" sq. hole backing plates through the front of the subframe into the side holes and through the brace on each side. Bolt to the sub frame on each using a supplied 1/2" nut and lock washer.
- Once the receiver brace is secured by the back bolts, check the alignment on the subframe. The front receivers should just touch the bumper plastic and clearance should exist between the bottom of the radiator cross frame and the top of the receiver brace. Once this is correct, use the front tabs of the receiver brace as templates to drill 17/32" holes through the front of the sub frame in front of the isolation mounts on each side. *Note:* later models may have a small inspection plate under the radiator cross frame on the passenger side. Remove this plate for additional clearance.
- Now insert the special formed 1/4" backing plates and 1/2" x 2" bolts into the holes from the inside of the sub frame and bolt in place using 1/2" nuts and lock washers.
- Now, using the brace as a template, drill the remaining three holes in each side of the subframe.
- Fish wire a 1/2" x 1 1/2" carriage bolt and 1/4" x 1 1/2" x 3" backing plate through the front of the subframe and into the outside bottom hole on each side. Fish wire four 1/2" x 1 1/2" carriage bolts and 1/4" x 2" x 2" backing plates into the remaining bottom holes through a large center access hole located in the subframe cross member. Finish bolting with 1/2" lock washers and nuts.
- Tighten all bolts to the torque specifications below then replace the splash guard fasteners. Trim as necessary to fit.
- Insert the front tubular braces into the lower receiver tubes making sure that they are mated to the correct side. If correct, the lock holes located on the receiver lip will match the front brace lock holes. Install the supplied 5/8" receiver pins in the receivers as illustrated and safety pin with the supplied spring pins.
- Mount the tow bar according to the manufacturer's instructions.
- Attach the included safety cables to the front of the receiver brace and the other end to the tow bar and the tow vehicle's safety cables.

### 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.						

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.



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## HARDWARE LIST:

- 8-1/2" X 1 1/2" CARRIAGE BOLTS
- 10-1/2" LOCK WASHERS
- 10-1/2" NUTS
- 2-5/8" DRAW PINS
- 2-1/8" SPRING PINS
- 2-CABLE CONNECTORS
- 2-14" SAFETY CABLES
- 6-1/4" X 2" X 2" SQ. HOLE BACKING PLATES
- 2-1/4" X 1 1/2" X 3" BACKING PLATES
- 2-1/4" X 2" X 2 1/2" FRONT BACKING PLATES
- 2-1/2" X 2" BOLTS

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#### 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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