



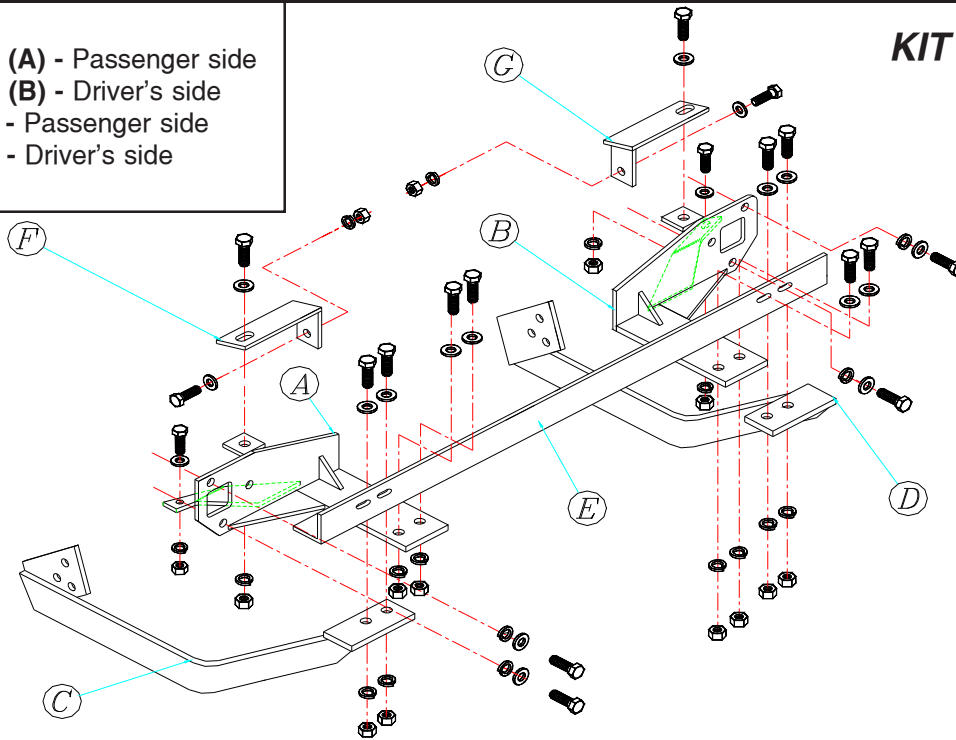
# MOUNTING BRACKET KIT INSTALLATION INSTRUCTIONS

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

## PARTS LIST:

- 1- LOWER RECEIVER (A) - Passenger side
- 1- LOWER RECEIVER (B) - Driver's side
- 1- FRONT BRACE (C) - Passenger side
- 1- FRONT BRACE (D) - Driver's side
- 1- CROSS BRACE (E)

KIT NO. 1510-3



**IMPORTANT:** All brackets **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

ROADMASTER Limited Warranty, including One-Year Conditional Warranty Text and Product Registration Card, in Carton.

## WARNING

Failure to follow these instructions can result in property damage, personal injury or even death.

- Installation of most mounting brackets 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. Failure to do so could result in loss of the towed vehicle.
- Use Loctite® Red on all bolts used for mounting this bracket.
- Do not use this document for custom fabrication, as it may not show all parts or structural components. Custom fabrication or an attempt to copy this bracket design could result in loss of the towed vehicle.
- 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 mounts and brackets for cracks or other signs of fatigue every 3,000 miles. Failure to do so could result in loss of the towed vehicle.
- 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.
- If running changes were made by the vehicle manufacturer after this bracket 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 that the bracket is securely fastened to the vehicle and fitted with the correct hardware to account for these changes. Failure to securely

fasten the bracket 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 bracket. Do not install the bracket if any structural frame damage is found. Failure to repair the damage could result in the loss of the towed vehicle.
- Some motorhome chassis have such a tight turning radius that you can damage your motorhome, towed vehicle, tow bar or bracket 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 bracket is designed for use with ROADMASTER tow bars and ROADMASTER adaptors only. Using this bracket with other brands, without an approved ROADMASTER adaptor, may result in non-warranty damage or injury.
- Upon final installation, the installer must inspect the bracket to ensure adequate clearance, particularly around hoses, air conditioner lines, radiators, etc., or non-warranty damage to the towed vehicle will result.
- This bracket is only warranted for the original installation. Installing a used bracket on another vehicle is not recommended and will void the warranty.

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**KIT NO. 1510-3**

- 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 mounting kit utilizes the E-A (Energy Absorbing) bumper mounts and the lower tie down plate mounting points. To gain access to the E-A mounts the bumper will have to be removed. This is accomplished by first removing the turn signals to expose the main mounting bolts behind them. The lower splash guard may have to be removed to gain access to the light harness. Remove the bolt and the two other bolts in the top corner on each side of the grill. Remove three additional 10mm bolts from the lower side splash guards and pull forward.
- Remove the E-A units from the bumper mount towers and sandwich the upper braces (A&B) between the E-A units and the bumper mount, with the braces positioned as shown on the diagram. Bolt these in place using the 8 x 1.25 x 25mm bolts provided. Now, bolt the upper brace tabs (F&G) to braces A&B with 1/2" x 1 1/2" bolts provided and adjust so that the tab fits flush against the side of the tower. Make sure the upper braces are lined up with each other before the next step. *Note:* set the face plate (E) on the braces to check if the inner holes line up and the face plate will sit level. Adjust if necessary, then remove it and go on to the next step.
- Now use the upper braces as a template, drill two 7/16" holes in each bumper mount tower. Insert a 7/16" x 1 1/2" bolt and flat washer into the holes from inside the tower. Tighten these bolts to the torque specifications.
- Reinstall the bumper over the upper braces.
- Now remove the lower tie down plates from the car and install the lower braces (C&D) using the original tie down plate bolts. Leave these bolts loose for now. *Note:* the lower splash panels will have to be trimmed slightly.
- Now install the face plates (E) using 1/2" x 1 1/2" bolts and flat washers. Align and tighten the bolts to torque specifications.
- Install the tow bar according to the instructions provided with the tow bar.
- Be sure to tighten ALL bolts according to the torque chart shown below.

**070298**

**HARDWARE LIST:**

- 4-8MM X 1.25 X 25MM BOLTS
- 4-8MM FENDER WASHERS
- 4-8MM LOCK WASHERS
- 4-7/16 X 1 1/2" BOLTS
- 4-7/16" NUTS
- 4-7/16" FLAT WASHERS
- 4-7/16" LOCKWASHERS
- 10-1/2" X 1 1/2" BOLTS
- 10-1/2" FLAT WASHERS
- 10-1/2" LOCKWASHERS
- 10-1/2" NUTS

**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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