

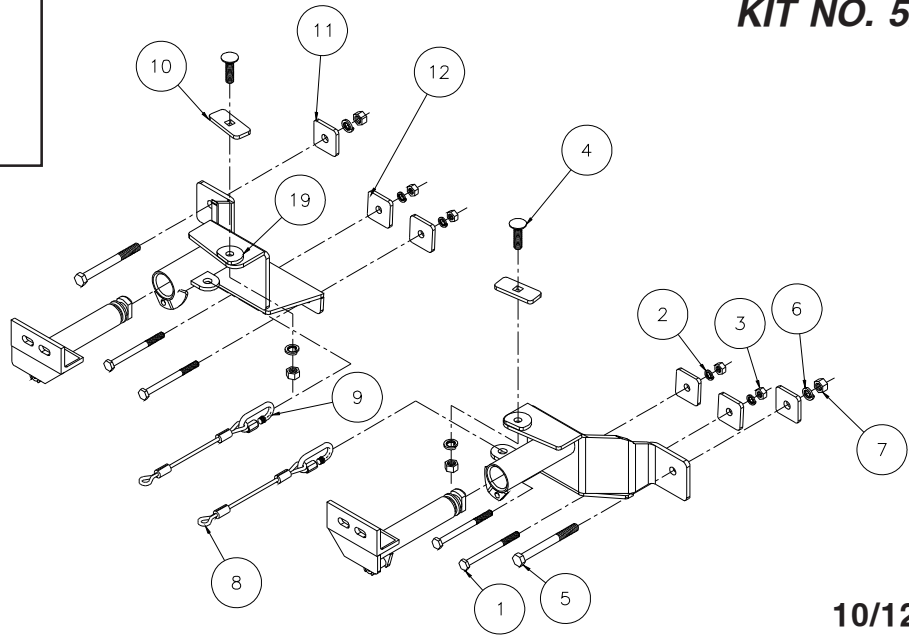
# MOUNTING BRACKET KIT INSTALLATION INSTRUCTIONS

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

**PARTS LIST:**

- 1- FRONT BRACE (A) - Passenger side
- 1- FRONT BRACE (B) - Driver side
- 1- MAIN BRACE (C) - Passenger side
- 1- MAIN BRACE (D) - Driver side

**KIT NO. 52257-1**



10/12/04

**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. 52257-1**

1. This bracket kit is one of our EZ Series, which is hidden for the most part behind the front bumper fascia and grille. The kit consists of two receiver braces, two front braces and a hardware kit. **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.
2. Remove the headlights, (three 8mm head bolts on each side). Set these back in the engine compartment or disconnect and set aside.
3. The combination bumper grille and fascia will have to be removed to install the receiver braces. Start at the top of the grille by pulling two plastic fasteners and two 10mm (head) bolts. Located on each side adjacent to the headlights.
4. Look along the side of the headlight cavity on each side and locate a 10mm nut at the junction of the fascia and the front fender sheet metal. Remove these nuts.
5. Follow the junction of the bumper skin and front fenders to the front of the fender wells and remove a Phillip head screw and a 10mm (head) screw inside each fender well.
6. On the bottom of the bumper fascia, remove 10 plastic fasteners at the junction of the fascia and the black spoiler splashguard.
7. Remove five (10mm head) bolts from the back of the splash guard and remove.
8. Now, pull the fascia forward, disconnect the fog lights then pull off.
9. Locate the black plastic air deflector under the radiator and remove (two plastic fasteners and two 10mm head screws).
10. Working on the driver side, hold a receiver brace to the front of the radiator sub frame and to the bottom of the bumper core. Fit the outer mounting plate 1/8" inside the outer frame flange and clamp in position. Use a 10mm bolt removed with plastic air deflector to hold the brace against the front of the radiator cross member.
11. Check the alignment, then using the receiver brace as a drill template drill two 13/32" holes through the radiator cross member, a 17/32" hole in the bottom of the bumper and another 17/32" hole through the side frame. Note: Use backing plates when drilling to avoid component damage.
12. Bolt through the radiator cross member with two 10mm x 1.5 x 120 mm bolts, 1/4" backing plates, lock washers and nuts then bolt through the side frame with a 1/2" x 5" bolt, 1/4" x 2" x 2" backing plate, lock washer and nut.
13. Fish wire a 1/2" x 1 1/2" carriage bolt and 1/4" x 1 1/4" x 3" backing plate through the end of the bumper core into the hole drilled in the bottom of the bumper core. Finish with a 1/2" nut and lock washer.
14. Repeat steps 10 through 13 for the passenger side with the exception of using the 10mm screw.
15. Torque all bolts to the specifications below. Do not over tighten.
16. Cut the plastic radiator air deflector to fit between the braces and reinstall using the plastic fasteners and a 10mm head screw removed in step 9.
17. Hold the bumper fascia in position and mark the top horizontal grille rib on each side for trimming, then trim to clear the receiver braces.
18. Now reinstall the fascia by reversing steps 1 through 8.
19. Insert the front braces into the receiver brace and twist 90 degrees to lock in place.
20. Mount the tow bar according to the manufacturer's instructions and torque all bolts to the specifications below.
21. Attach the 10" safety cables to the receiver brace using the supplied cable connectors. Connect the other end to the tow vehicle's safety cables and the tow bar.

## 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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**KIT NO. 52257-1**

**HARDWARE LIST:**

- 4-10MM X 1.5 X 120MM BOLTS
- 4-10MM LOCK WASHERS
- 4-10MM NUTS
- 2-1/2" X 1 1/2" CARRIAGE BOLTS
- 2-1/2" X 5" BOLTS
- 4-1/4" X 2" X 2" BACKING PLATES (7/16" HOLE)
- 4-1/2" LOCK WASHERS
- 4-1/2" NUT
- 2-1/4" X 2" X 2" (9/16" HOLE)
- 2-CABLE CONNECTORS
- 2-10" SAFETY CABLES
- 2-1/4" X 1 1/4" X 3" SQ. HOLE BACKING PLATE

4/10/02

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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.

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.