



# MOUNTING BRACKET KIT INSTALLATION INSTRUCTIONS

ROADMASTER, INC.

5602 N.E. SKYPORT WAY

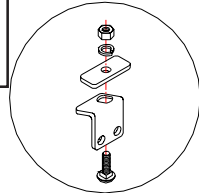
PORTLAND, OR 97218

1-800-669-9690

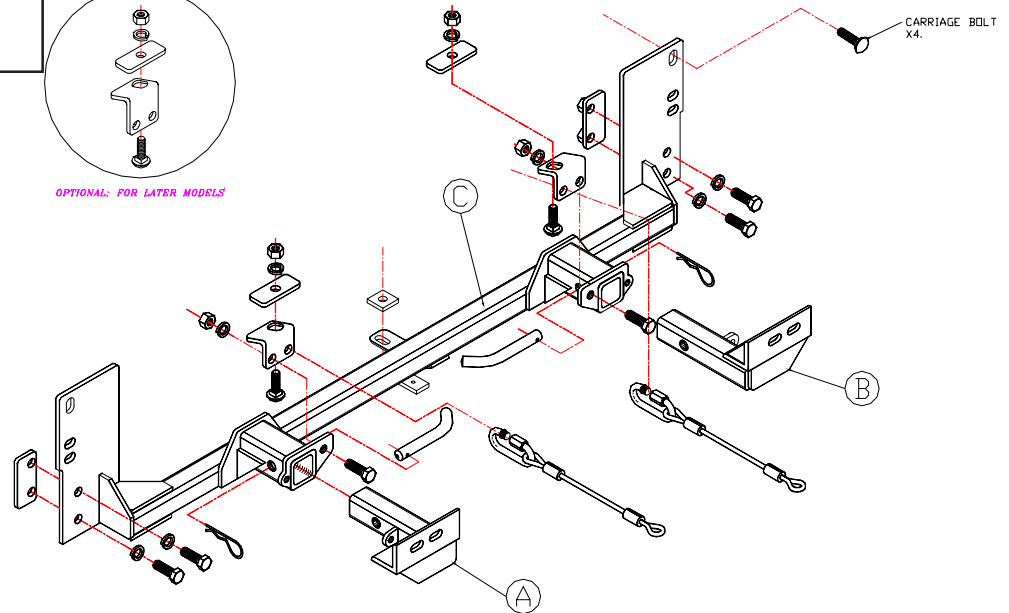
FAX (503) 288-8900

**PARTS LIST:**

- 1- FRONT BRACE (A) - Passenger side
- 1- FRONT BRACE (B) - Driver's side
- 1- RECEIVER ASSEMBLY (C)

**KIT NO. 242-1**

OPTIONAL: FOR LATER MODELS



011199

**IMPORTANT:** All brackets *must* be assembled with all the bolts left loose for final adjustment & 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

- Do not use this document for custom fabrication as it may not show all parts or structural components.
- ROADMASTER will not be responsible for any damage or injury resulting from any modification or alteration.
- The owner must inspect all mounts and brackets before each use for cracks or other signs of fatigue. Also, inspect the fasteners for proper torque, according to the torque chart.
- The owner must check the 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.
- The installer must read the instructions and use all bolts and parts supplied.
- If the towed vehicle has been in an accident, it must be properly repaired before attaching the brackets. Do not install the brackets if any structural frame damage is found. Failure to repair the damage may result in loss of your towed vehicle.
- Some motorhome chassis have such a tight turning radius that you can damage your motorhome, towed vehicle or tow bar while turning sharply. Before getting on the road, test your turning radius in an empty parking lot. Damage that results from turning too sharply is not covered by warranty.
- The driver must not back up the motorhome with the towed vehicle attached or non-warranty damage will occur to your towing system or towed vehicle.
- The safety cables must connect the towing vehicle to the towed vehicle frame to frame, with the cables crossed. Refer to the cable instructions for proper routing.
- Make sure there is enough slack in the safety cables at the motorhome to allow for sharp turns.
- Use caution when handling the tow bar — if your hands, fingers or any part of your body are caught between moving components, they can be pinched, cut or otherwise injured.
- This bracket is designed for use with ROADMASTER tow bars and ROADMASTER adaptors. Using this bracket with other brands, without an approved ROADMASTER adaptor, may result in non-warranty damage or injury.
- Important! This bracket is only warranted for the original installation. Installing a used bracket on another vehicle is not recommended and will void the warranty.
- Upon final installation, the installer must inspect the bracket to ensure adequate clearance, particularly around hoses, AC lines, radiators, etc., or non-warranty damage will result.

**WARNING**

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



# MOUNTING BRACKET KIT INSTALLATION INSTRUCTIONS

ROADMASTER, INC. 5602 N.E. SKYPORT WAY PORTLAND, OR 97218 1-800-669-9690 FAX (503) 288-

**KIT NO 242-1**

1. This is a XL series mounting kit which consists of the receiver assembly which mounts behind the bumper, two upper braces which bolt under the bumper and two front braces which can be removed when the vehicle is not being towed. To install the kit, the plastic bumper skin must be removed to provide access to the area behind the bumper. Disconnect the fog light connections before proceeding.
2. Start by removing three screws from the front of the fender well splash panels on each side.
3. Remove the two bolts on each side holding the bumper skin to the fender sheet metal.
4. Remove the lower bolts fastening the bumper skin to the lower frame cross member.
5. Remove the upper bolts and plastic fasteners holding the skin to the radiator core support, then pull forward and off.
6. Remove the two nuts on each side holding the bumper on and remove the bumper. Remove the bolts from the bumper and discard, but do not discard the nuts, as they will be reinstalled later.
7. Remove the front bolt from the motor mount on the cross member.
8. Mount the receiver brace in place of the bumper on the front of the vehicle using four 1/2" x 1-1/2" bolts and nuts. Note: These bolts will be used temporarily as line up bolts and will be removed later.
9. Bolt through the center tab using the stock motor mount bolt which was removed in step 7. Install the 1/4" x 1 1/4" x 1/4" spacer plate between the tab and the motor mount and tighten bolt just snug at this point.
10. Using the receiver brace as a template, drill two 1/2" holes per side through the lower part of the frame.
11. Remove the 1/2" bolts holding the receiver brace in position and bolt through the two drilled holes on each side using the bolts, 1/2" lock washers and threaded backing plates.
12. Install four 3/8" x 1-1/2" carriage bolts into the bumper, then reinstall the bumper, sandwiching the receiver brace between the bumper and the bumper mount. Use the nuts previously removed on the carriage bolts.
13. Now install two small upper braces as illustrated between the front portion of the receivers and the bottom of the bumper. Bolt the upper braces to the receiver braces with 1/2" x 1-1/4" bolts, lock washers and nuts. Drill two 1/2" holes through the bottom of the bumper using the upper braces as drill guides. Bolt with two 1/2" x 1-1/2" carriage bolts, 1/4" x 1-1/2" x 3" backing plates, lock washers and nuts. NOTE: Two sets of upper braces are included. Later models will use the longer braces.
14. Tighten all the bolts to the torque specifications below and reinstall the bumper skin reversing steps 1 through 5. Note: The bumper skin will have to be trimmed slightly to clear the upper braces.
15. Insert the front braces into the receiver brace as illustrated and pin using a 5/8" draw pin and a 1/8" spring pin for each brace.
16. Mount the tow bar according to the manufacturer's instructions and torque all bolts to the specifications below.
17. Connect the TOW VEHICLES SAFETY CABLES TO THE RECEIVER BRACE using the provided cable connectors.

Continued on next page

**011199**

## **CAUTION:**

### **Installer must read instructions and use all bolts and parts supplied.**

**FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN DEATH, PERSONAL INJURY OR PROPERTY DAMAGE**

### **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.



# MOUNTING BRACKET KIT INSTALLATION INSTRUCTIONS

ROADMASTER, INC. 5602 N.E. SKYPORT WAY PORTLAND, OR 97218 1-800-669-9690 FAX (503) 288-8900

Continued from last page

**KIT NO. 242-1**

## Hardware

- 4- 1/2" x 1-1/2" bolts
- 2- 1/2" x 1-1/2" carriage bolts
- 4- 3/8" x 1-1/2" carriage bolts
- 8- 1/2" lock washers
- 4- 1/2" nuts
- 2- 1/4" x 1-1/2" x 3" threaded backing plates
- 2- 1/4" x 1-1/4" x 3" backing plates
- 1- 1/4" x 1-1/4" x 1-1/4" spacer plate
- 2- 5/8" draw pins
- 2- 1/8" spring pins
- 2- cable connectors
- 2- 13" safety cables
- 2- 1/4" x 1-7/8" x 2 3/16" bumper mount brace
- 2- 1/4" x 1 3/16" x 2 1/4" bumper mount brace
- 2- 1/2" x 1-1/4" bolts

**CAUTION:** Installer must read instructions and use all bolts and parts supplied.

FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN DEATH, PERSONAL INJURY OR PROPERTY DAMAGE

### 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.