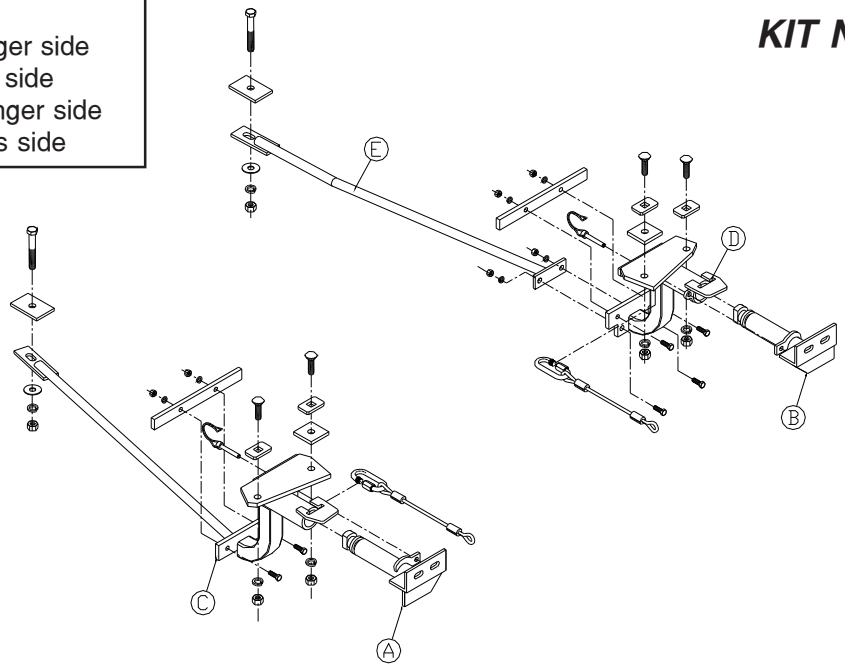
R O A D M A S T E R

MOUNTING BRACKET KIT

INSTALLATION INSTRUCTIONS

PARTS LIST:
1- REAR RECEIVER (A) - Passenger side
1- REAR RECEIVER (B) - Driver's side
1- TUBULAR BRACE (C) - Passenger side
1- TUBULAR BRACE (D) - Driver's side

KIT NO. 52255-1



07-01-05
RV

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 warranteed for the original installation.** Installing a used bracket on another vehicle is not recommended and will void the warranty.

R O A D M A S T E R

MOUNTING BRACKET KIT INSTALLATION INSTRUCTIONS

KIT NO. 52255-1

1. This is one of our EZ lock brackets, 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 rear receiver braces, two tubular main braces and a hardware pack. ***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. Start by locating and removing nine 10mm head screws securing the lower splash panel to the bottom of the bumper fascia. Remove the facia to provide access to the bottom of the bumper core.
2. Looking at the bottom of the bumper core locate two small holes next to the ends of the lower facia air opening on each side. Enlarge these holes to 17/32".These will serve as guide holes for the rest of the installation.
3. Fish wire a ½" x 1½" carriage bolt and ¼" x 1¼" x 2" sq. hole backing plate through the rear of the bumper core in to each hole drilled in the previous step.
4. Working on one side at a time, install a receiver brace on the bolt by inserting it behind the bumper facia and positioning it over the bolt. Secure with a ½" nut and lock washer. Now bolt the rear of the brace to the sub frame of the vehicle by bolting through an existing hole through the sub frame with a ½" x 3" bolt, ¼" x 2" x 3" backing plate, lock washer and nut. Be sure to locate the backing plate on the top of the sub frame.
5. Repeat step four for the remaining receiver brace.
6. Once the braces are bolted in place, use the pre-drilled holes in the braces as templates to drill four more 3/8" holes through the bottom front frame u-channel face.
7. Bolt through the front of the u channel with four 3/8" x 1½" bolts, two ¼" x 1" x 10" backing plates, lock washers and nuts.
8. Once the braces are bolted in place, use the braces as drill templates to drill two more 17/32" holes in the bottom of the bumper.
9. Fish wire two ½" x 2" carriage bolts and ¼" x 1¼" x 2" sq. hole backing plates through the rear of the bumper core in to these holes and fasten with ½" nuts and lock washers. *Note:* some models will require a 5/16" spacer between the bumper core and brace.
10. Insert the front tubular braces into the receivers, twist 90 degrees and lock. Install the safety pins on the pins to the tabs on the tubes, lock them into place.
11. Trim the lower fascia removed in step one to fit then reinstall.
12. Mount the tow bar according to the manufacturer's instructions, adjust for free movement and tighten all bolts to the torque specifications below.
13. Attach one end of the included 10" safety cable to the provided hole in the receiver brace with the included cable connectors. Connect the other end to the tow vehicle's safety cables and the tow bar.

HARDWARE LIST:

- 6- 3/8" x 1 ½" bolts
- 6- 3/8" nuts
- 6- 3/8" lock washers
- 2- ½ x 3" bolts
- 2- ½ x 1½" carriage bolts
- 2- 5/16" x 2" x 2" spacers (optional)
- 2- 1/2" x 2" carriage bolts
- 2- 1/2" flat washers
- 6- ½ nuts
- 6- ½ lock washers
- 4- ¼" x 1¼" x 2" sq. hole backing plates
- 2- 3/8" x 1" x 10" two hole backing plates
- 2- 10" safety cables
- 2- cable connectors
- 2- safety pins
- 2- ¼" x 2" x 3" backing plates

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.