



MOUNTING BRACKET KIT INSTALLATION INSTRUCTIONS

ROADMASTER, INC.

5602 N.E. SKYPORT WAY

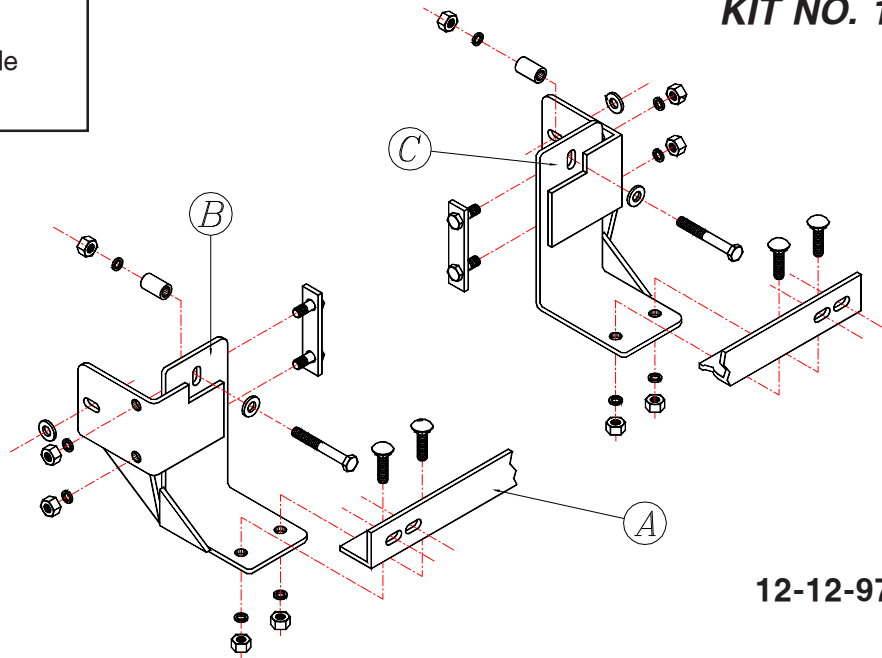
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PARTS LIST:

- 1- FACE PLATE (A)
- 1- FRONT BRACE (B) - Passenger side
- 1- FRONT BRACE (C) - Driver's side

KIT NO. 1401-1

12-12-97

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 turn-

ing 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.

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Note: the front bumper and brackets must be removed. This is simple with the removal of 4 bolts from the bumper and 6 bolts from the brackets.

Note: if there is a center metal splash guard, remove it to gain access to the 1/2" x 3 1/2" bolt and spacer for main brace just in front of the steering gear housing. The clearance is close but reachable.

1. There is a rubber splash guard in the fender well, ahead of the front tires. This splash guard drops down and forward. Work it back, out of the position it is in. This will expose all of the bolts necessary to mount the brackets. Don't forget, when re-assembling, to put this splash guard back in place.
2. Remove the two bolts on the outside of the bumper and remove the two top bolts from the inside of the bumper. Now, set the bumper aside.
3. Remove the bracket that secures the bumper to the frame.
4. Place the main brace against the outside of the passenger side of the frame, and then position the bumper bracket back in place with main brace sandwiched in between. Now, bolt it to the frame with 1/4" x 1" x 4 1/2" backing plate with bolts in the front two holes.

Note: the two front bolts must go from the inside out. Use the existing 10mm bolts originally removed from the bumper bracket for the rear hole only.

5. Locate the existing hole directly behind the face of the main brace. Using the 1 1/4" spacer and 1/2" x 3 1/2" bolt, fasten this last hole of the brace to the car. There is a large access hole in the driver side of the cross member to reach the hole.
6. Repeat this step on the driver's side.
7. Bolt the face plate to the braces using 1/2" x 1 1/2" carriage bolts provided. Now, starting with the face plate, tighten all bolts according to the torque chart shown below.
8. Remove the face plate to gain access for re-installing the bumper. Replace the bumper. Bumper may have to be notched to fit around the main braces.
9. Reinstall the face plate and torque.
10. Bolt the tow bar to the face plate according to the instructions provided with the tow bar.

HARDWARE LIST:

- 4-1 1/2" X 1 1/2" CARRIAGE BOLTS
- 10-1 1/2" LOCK WASHERS
- 2-1 1/2" FLAT WASHERS
- 2-1 1/2" X 3" BOLTS
- 10-1 1/2" NUTS
- 2-7/16" FLAT WASHERS
- 2-1 1/2" X 1 1/4" PIPE SPACERS
- 2-1 1/4" X 1" X 4 1/2" BACKING PLATES W/HOLES

12-12-97

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.						

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