

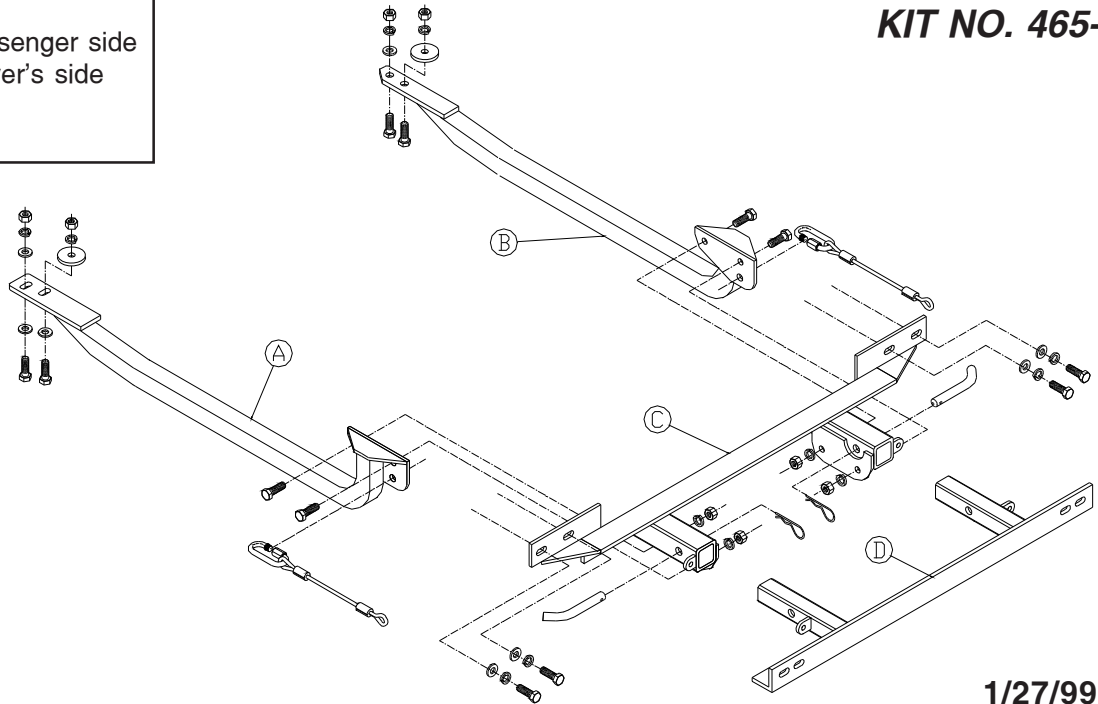
BASEPLATE KIT INSTALLATION INSTRUCTIONS

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

PARTS LIST:

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

KIT NO. 465-1



1/27/99

IMPORTANT: All baseplates *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

WARNING

Failure to follow the below warnings and the installation instructions may result in voiding your warranty, property damage, the loss of your towed vehicle, personal injury or even death.

- Installation of most baseplates 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.
- Use Loctite® Red on all bolts used for mounting this baseplate.
- 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 mounting points for cracks or other signs of fatigue every 3,000 miles.
- 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.
- Do not weld. This baseplate is designed to be bolted to the vehicle. Welding will void the warranty.
- Do not use this document for custom fabrication, as it may not show all parts or structural components 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 baseplate. Do not install the baseplate if any structural frame damage is found.
- If running changes were made by the vehicle manufacturer after this

kit 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 this kit is securely fastened to the vehicle and fitted with the correct hardware to account for these changes.

- Roadmaster manufactures many styles of baseplates. If your baseplate has removable arms, they must be removed before driving the vehicle, unless the arms can be pinned or padlocked in place. If not secured, the arms could vibrate out.
- Some motorhome chassis have such a tight turning radius that you can damage your motorhome, towed vehicle, tow bar or baseplate 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 kit is designed for use with ROADMASTER tow bars and ROADMASTER adapters only. Using this kit with other brands, without an approved ROADMASTER adapter, may result in non-warranty damage or injury.
- Upon final installation, the installer must inspect the baseplate to ensure adequate clearance, particularly around hoses, air conditioner lines, radiators, etc.
- This baseplate is only warranted for the original installation. Installing a used baseplate on another vehicle is not recommended and will void the warranty.

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KIT NO. 465-1

- 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 bracket kit is one of our XL Series which is designed to be partly removable. The kit consists of the main receiver brace, two front braces, two rear braces and a hardware pack. The main receiver brace bolts to the bottom bumper mount bolts on each side behind the front bumper fascia and lower grille. The two front braces insert through the lower grille under the bumper into the receiver brace on each side. Two rear braces attach to the receiver brace and then to the suspension sub frame. Start by laying the kit out according to the illustration. This will give you a visual idea of how the kit installs and also confirm that the kit components are present and accounted for.
- Start by removing four 6mm lower fascia fasteners. If the vehicle has fog lights these will also have to be temporarily removed. Once the fog lights have been removed, the six fasteners holding the fog light base can be removed and the base set aside. This will provide access between the lower fascia and the lower radiator cowling.
- The steel bumper core is mounted on the EA units on each side with four bolts, remove the two lower bolts on each side.
- Cover the front receiver tubes on the receiver brace with shop rags or gloves to prevent marring the plastic grille fascia, then insert the receiver brace through the lower grille opening from behind and below the bumper. Bolt the bumper mounts on each side with 7/16" x 1 1/2" bolts, lock washers, and flat washers. Align the receiver brace and tighten the bolts to the torque specifications below.
- Replace the fog light mounting plate and fog light (if removed) and the lower fascia fasteners removed in step 2.
- Locate the rear braces and bolt them one at a time to the receiver brace with two 1/2" x 1 1/2" bolts, lock washers and nuts per side. Bolt the rear of the braces to the sub frame as illustrated with 1/2" x 1 1/2" bolts, plate washers, flat washers, lock washers and nuts. Tighten these bolts to torque specifications below. *Note:* be sure to use the large plate washers on the top forward holes in the sub frame. Some vehicles may have a hole missing, in this case, bolt the braces in position and use the brace as a template to drill a 17/32" hole through the sub frame plate, the finish bolting in position. Some vehicles may have additional frame stiffeners bolted in this area, in this case, remove the stock bolts sandwich the rear of the braces between the sub frame and the stiffener.
- Insert the front brace into the receiver tubes and pin with 5/8" draw pins and 1/8" spring pins.
- Install the tow bar according to the manufacturer's instructions.
- Attach one end of the included 12" safety cables to the lower front hole in the side mounting plate on each side of 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:

- | | |
|-----------------------|------------------------|
| 8-1/2" X 1 1/2" BOLTS | 2-1/8" SPRING PINS |
| 8-1/2" LOCK WASHERS | 4-7/16" X 1 1/2" BOLTS |
| 8-1/2" NUTS | 4-7/16" LOCK WASHERS |
| 2-12" SAFETY CABLES | 4-7/16" FENDER WASHERS |
| 2-CABLE CONNECTORS | 4-1/2" FLAT WASHERS |
| 2-5/8" DRAW PINS | 2-2" PLATE WASHERS |

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.						