

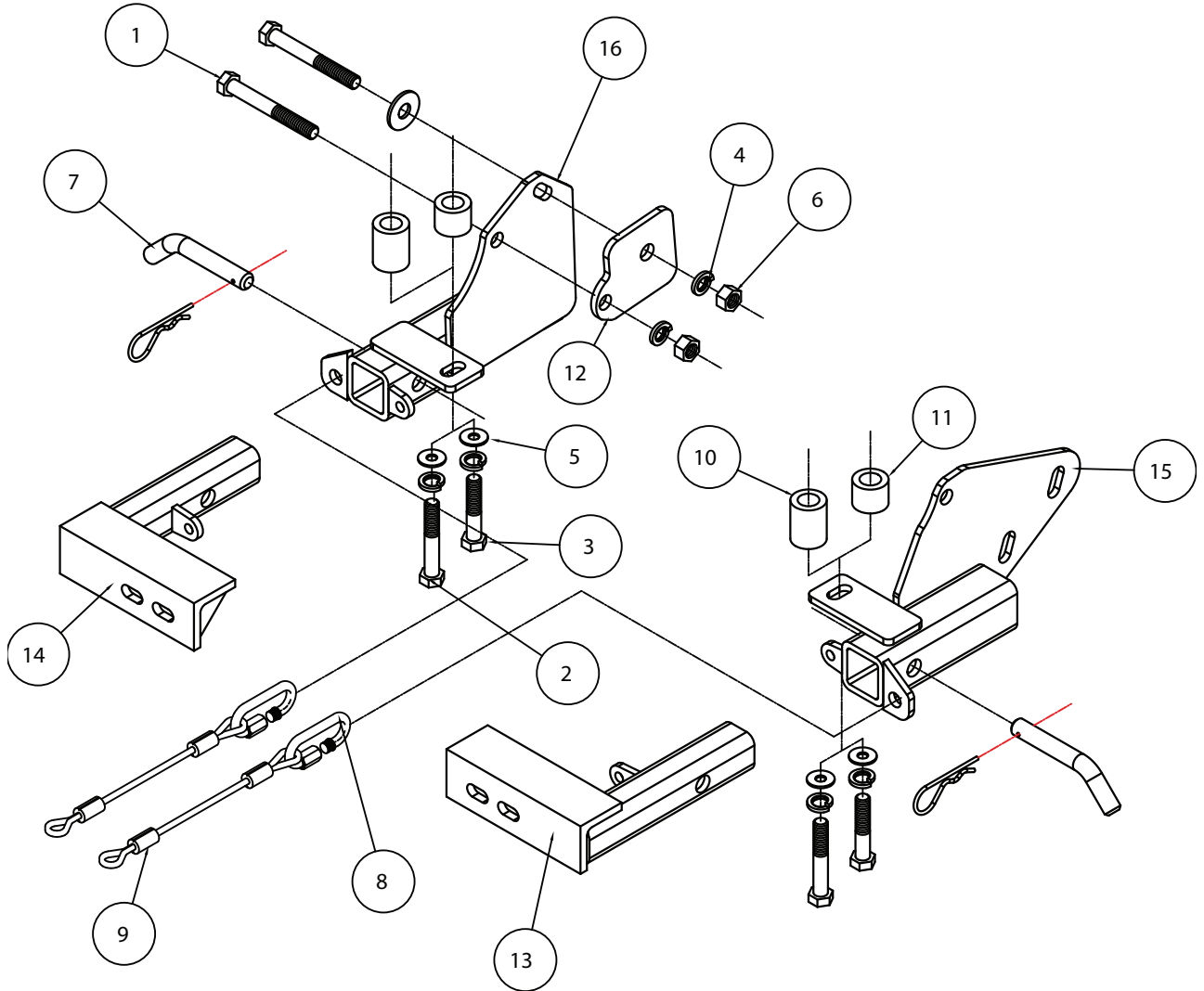


# BASEPLATE KIT INSTALLATION INSTRUCTIONS

**KIT# 1424-1**

05/18/11  
KS

ROADMASTER, Inc. 6110 NE 127th Ave. Vancouver, WA 98682 360-896-0407 fax 360-735-9300 www.roadmasterinc.com



ITEM	QTY	NAME	MATERIAL
1.....2	2	1/2" X 4" BOLT.....	350105-00
2.....2	2	1/2" X 3" BOLT.....	350101-00
3.....2	2	1/2" X 2 1/2" BOLT.....	350099-00
4.....4	4	1/2" LOCK WASHER.....	350309-00
5.....3	3	1/2" FLAT WASHER.....	350308-00
6.....2	2	1/2" HEX NUT.....	350258-00
7.....2	2	DRAW PIN W/CLIP.....	357035-00
8.....2	2	QUICK LINK.....	200008-00
9.....2	2	SAFETY CABLES.....	650646-10
10.....2	2	1 1/4" O.D. X 1 5/8" TUBE.....	A-001067
11.....2	2	1 1/4" O.D. X 1" TUBE.....	A-000945
12.....1	1	BACKING PLATE.....	A-000583
13.....1	1	DRIVER SIDE ARM WELDMENT.....	C-000478
14.....1	1	PASSENGER SIDE ARM WELDMENT.....	C-000479
15.....1	1	DRIVER SIDE RECEIVER BRACE WELDMENT.....	C-000451
16.....1	1	PASSENGER SIDE RECEIVER BRACE WELDMENT.....	C-000452



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This bracket kit is one of our XL series, which is designed to be partly removable (Fig.A and Fig.B). The kit consists of two main receiver braces, two front braces and a hardware pack. The main receiver braces mount below the front bumper fascia to the front frame tubes. The front braces insert into the receiver brace on each side.

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.



**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 and lock washers on all fasteners.

## WARNING

Failure to heed these warnings or follow the installation instructions may result in a voided warranty, loss of towed vehicle, personal injury or death.

- Do not weld or modify this baseplate or its components. Welding or modification will void the warranty.
- Do not use this document as a basis to design/fabricate a baseplate, as it may not show all parts or structural components.
- We strongly recommend professional installation.
- 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.
- The installer must use all bolts and parts supplied. If running changes were made by the vehicle manufacturer after this kit was designed, some bolts or other fasteners may no longer be the correct size. It is the installer's responsibility to verify this kit is securely fastened to the vehicle.
- Use Loctite® Red on all bolts used to secure this baseplate. Torque all bolts to the specifications found at the end of these instructions. Do not over-torque the bolts or failure may occur.
- The installer must inspect the baseplate to ensure adequate clearance, particularly around hoses, air conditioner lines, radiators, etc. or non-warranty failure may result.
- 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 your 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 or vehicles.
- 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. See cable instructions for proper routing. Failure to do so will result in non-warranty damage and/or 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.
- Receiver extensions and out-of-level towing situations of 3 inches or more. This can cause the system to swing much higher and lower, causing excessive strain on the tow bar, baseplate and frame. That can cause the towing system to fail, causing property damage, personal injury or even death. If you must use a receiver extension or drop hitch to tow, it will reduce your receiver's weight capacity by 1/3 to avoid damaging your system. Never use more than one extension and/or drop hitch, as this will void your warranty.
- Every 3,000 miles, the owner must inspect all mounting points for cracks or fatigue, and check the fasteners for proper torque, according to the bolt torque requirements chart on the last page of these instructions.
- The owner must follow the vehicle manufacturer's instructions to prepare the vehicle for towing. Failure to do so may cause severe damage to the vehicle.
- 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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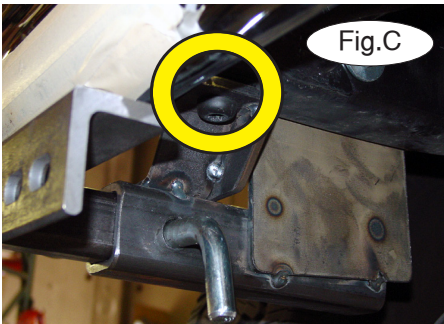


Fig.C

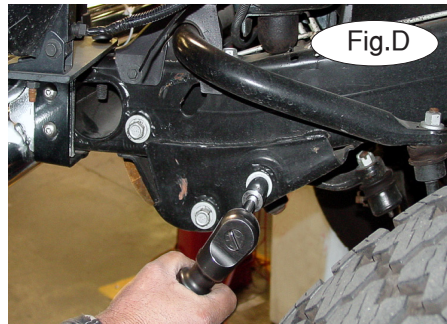


Fig.D

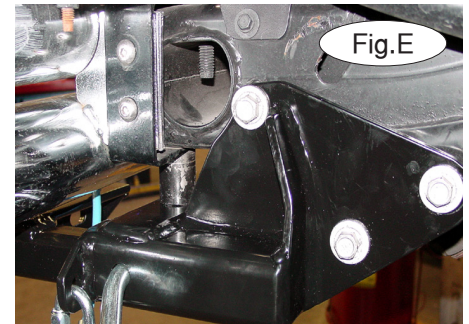


Fig.E

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. Loctite® Red must be used on all bolts for mounting this bracket, including the steering box bolts. Make certain you have Loctite Red on hand, as you will not be able to reassemble the steering box without it. Now, begin the installation. Starting with the driver's side, remove lower #55 Torx head bolt from the bottom of the bumper (Fig.C).
2. Remove the lower rear steering box bolt (Fig.D). Bolt through the rear mounting hole on the driver's side receiver brace with the steering box bolt. Tighten to hold in place (Fig.E).
3. Now, remove the top steering bolts.
4. Push brace up into position, bolt through the two remaining steering box holes with the original bolts. Leave all three steering box bolts loose until the front bolt is in place (Fig.F).
5. This kit includes two sizes of spacers (1" and 1-5/8") and bolts (1/2" x 2 1/2" or 3") to clear the different styles of front bumpers available (Fig.F,G). Check the spacing below the bumper and use the appropriate spacer, 1/2" bolt, lock washer and flat washer to replace the Torx bolt removed in step 2.
6. Move to the passenger side and remove the passenger side bumper #55 Torx bolt (Fig.F).
7. Bolt through the lower receiver side mounting hole and frame hole. Fit the backing plate with a 1/2" x 4" bolt, lock washer, and nut (Fig.G).
8. Push brace up to bottom of bumper and bolt through mounting tab with the same bolt and spacer used on the driver's side. Tighten to hold in position (Fig.H).
9. Using the receiver brace's top side mounting hole as a drilling template, drill a hole through the frame into the inner backing plate with a 1/2" drill bit.
10. Bolt through with a 1/2" x 4" bolt, lock washer, and nut.

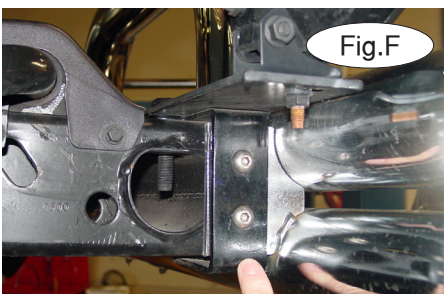


Fig.F



Fig.G

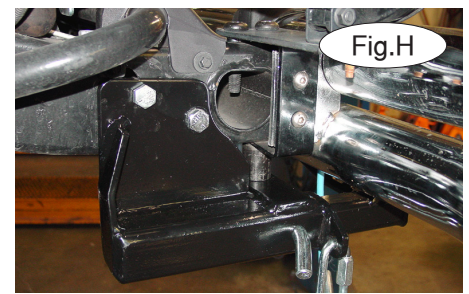


Fig.H



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11. Install the front braces and pin with 5/8" draw pins and 1/8" spring pins.
12. Torque all mounting bolts to the specifications at the end of these instructions. Install the tow bar according to the manufacturer's instructions.
13. Attach one end of the included 10" safety cables to the 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 tow bar.

*Note:* if the bracket is so equipped, the holes in the alignment tabs which are welded to the arms and main receiver braces are for padlocks only. Under no circumstances should you bolt the alignment tabs together. Bolting the alignment tabs together may result in non-warranty damage to the bracket.

## 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.

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.