



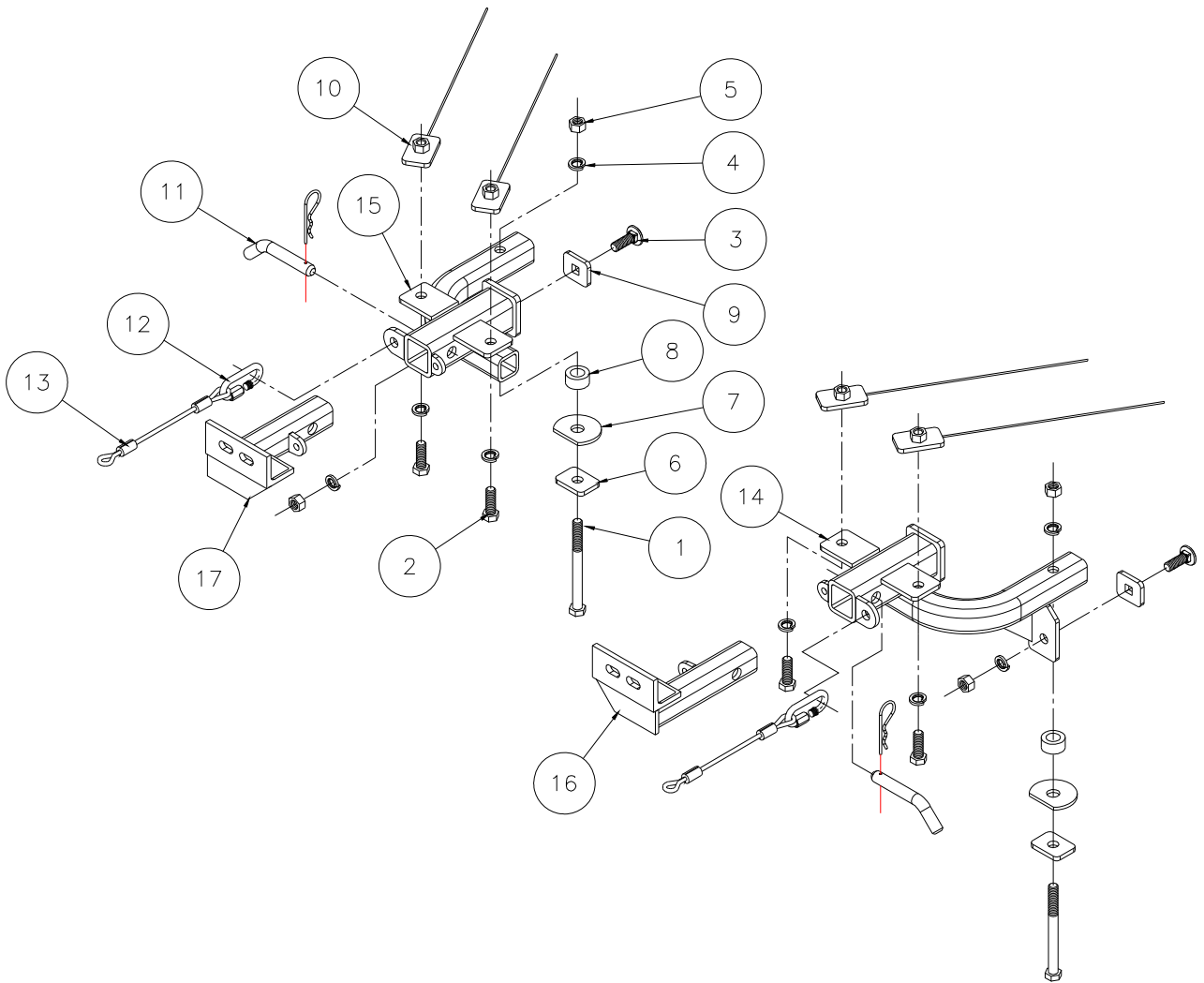
BASEPLATE KIT INSTALLATION INSTRUCTIONS

KIT# 4415-1

08/24/07
KB

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

ROADMASTER, INC.



ITEM	QTY	NAME	MATERIAL
1	2	1/2" x 5 1/2" BOLT	350108-00
2	4	1/2" x 1 1/2" BOLT	350095-00
3	2	1/2" x 1 1/2" CARR. BOLT	350362-00
4	8	1/2" LOCK WASHER	350309-00
5	4	1/2" HEX NUT	350258-00
6	2	1/4" x 1 1/2" x 2" BACKING PLATE W/ 9/16" HOLE	A-000122
7	2	5/8" x 3/16" x 2 1/2" CLIPPED PLATE WASHER	A-001763
8	2	1 1/4" O.D. x 0.250 WALL x 5/8" PIPE SPACER	A-001068
9	2	1/4" x 1 1/2" x 1 3/4" SQUARE HOLE BACKING PLATE	A-000196
10	4	1/4" x 1 1/2" x 2 1/2" THREADED BACKING PLATE W/ ROD	C-001572
11	2	5/8" DRAW PIN W/ CLIP	357035-00
12	2	QUICK LINK	200008-00
13	2	8" SAFETY CABLE	500646-08
14	1	DRIVER SIDE RECEIVER	C-001573
15	1	PASSENGER SIDE RECEIVER	C-001574
16	1	DRIVER SIDE ARM	C-001575
17	1	PASSENGER SIDE ARM	C-001576



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This is one of our XL series brackets, which allows the visible front portion of the bracket to be easily removed from the front of the vehicle (Fig.A and Fig.B). The bracket kit consists of a passenger and driver side main receiver brace, two removable front bracket arms and a hardware pack. The main receiver braces mount to the bumper core and the lower sub frame; the removable front brackets install in the main receiver braces.

Before starting the installation, lay out the kit components in order, as they will be used. This will give you a visual idea of how the components work, and will also confirm that everything is present and accounted for.



Fig.A



Fig.B

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.

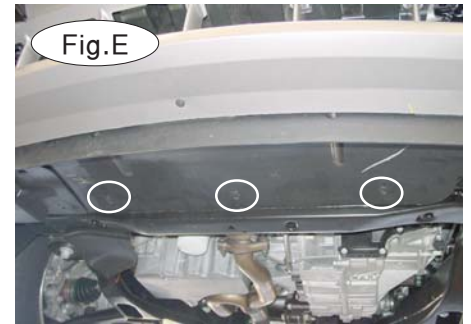


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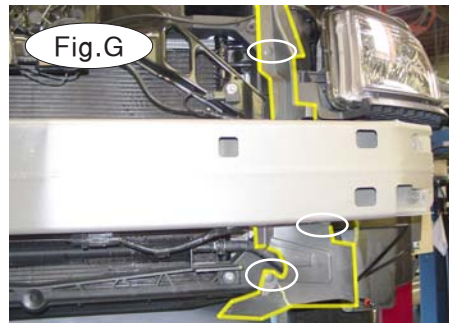
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1. **Important:** please use all supplied bolts and parts and read all instructions carefully before beginning this installation. The majority of questions you may have can be answered within the text, and proper installation will ensure safe and secure travel. Now, begin the installation by removing two plastic fasteners and two 10mm (head) bolts attaching the top of the fascia to the core support (Fig.C).

2. Next, remove three Phillips (head) screws attaching the fender liner to the fascia (Fig.D). Repeat for the other side.

3. Remove three plastic fasteners attaching the center splash shield to the core support (Fig.E).

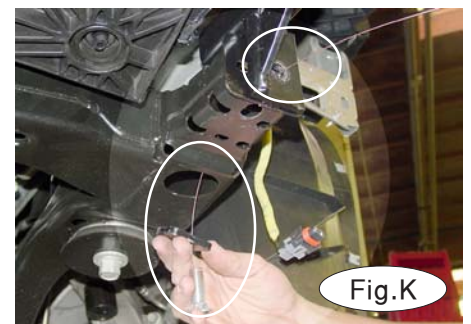


4. Now, unplug the fog lights.

5. Pull out and forward on both corners of the fascia to remove it (Fig.F).

6. Remove the air deflectors on both sides by removing three plastic fasteners per side (Fig.G).

7. On each side, remove one 13mm (head) bolt attaching the hood latch support to the core support (Fig.H).



8. Starting on the passenger side, position one of the main receiver braces in place under the bumper core and over the hole you removed the 13mm (head) bolt from in step 7. Bolt through the existing hole in the end of the receiver tube, replacing the 13mm (head) bolt you removed in step 7 (Fig.I, J).

9. Fishwire the 1/2" x 1 1/2" carriage bolt and 1/4" x 1 1/2" x 1 3/4" backing plate through the lower sub frame and existing hole in the main receiver brace (Fig.K). Finish with a lock washer and nut (Fig.L).

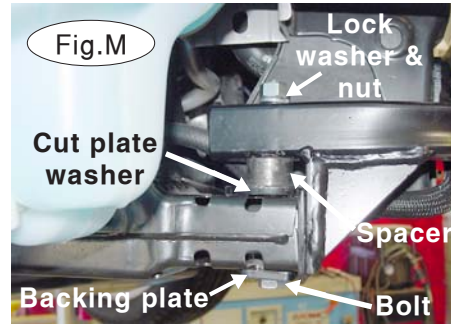


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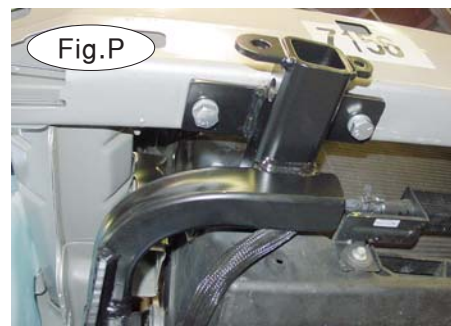
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10. Place the $\frac{1}{4}$ " x $\frac{1}{2}$ " x 2" backing plate over the $\frac{1}{2}$ " x $5\frac{1}{2}$ " bolt. Then, place the $1\frac{1}{4}$ " x $\frac{5}{8}$ " pipe spacer and cut plate washer between the end of the frame rail and the main receiver brace. Now, bolt through the bottom of the frame rail, cut plate washer, pipe spacer and the main receiver brace. Finish with a lock washer and nut (Fig.M).

11. Using the two existing holes in the main receiver brace as templates for drilling, drill through the bottom of the bumper core (Fig.N).



12. Place the two $\frac{1}{2}$ " x $1\frac{1}{2}$ " x $2\frac{1}{2}$ " weld nut backing plates with attached wire inside the bumper core (Fig.O). Now, bolt through the main receiver brace, the holes you drilled in the bumper core and into the weld nut backing plates using the two $\frac{1}{2}$ " x $1\frac{1}{2}$ " bolts and lock washers (Fig.P). After both bolts are in place, use a pair of pliers to break off the attached wire.

13. Repeat step 8 through 12 for the driver side of the vehicle.

14. Torque all remain bolts to the torque specifications listed at the end of these instructions. *Note:* torque the 13mm (head) bolt in step 8 to 19ft./lbs.

15. On both sides, a portion of the plastic shock absorption pad on the back side of the fascia needs to be trimmed to allow clearance for the main receiver brace. Follow the yellow maker line in Figure Q for correct trimming.

16. Reassemble the fascia and fog lights, reversing steps 1 through 6.

17. Insert the removable front bracket arms into the front receiver braces, and secure them in place with the supplied $\frac{5}{8}$ " draw pins and spring pins (Fig.R).

18. Attach the 8" safety cables with the cable connectors (Q-Links) to the front of the receiver braces (Fig.R).

19. Attach the ends of the safety cables to the tow vehicle's safety cables and tow bar.

20. Install the tow bar to the mounting bracket according to the manufacturer's instructions.





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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.