



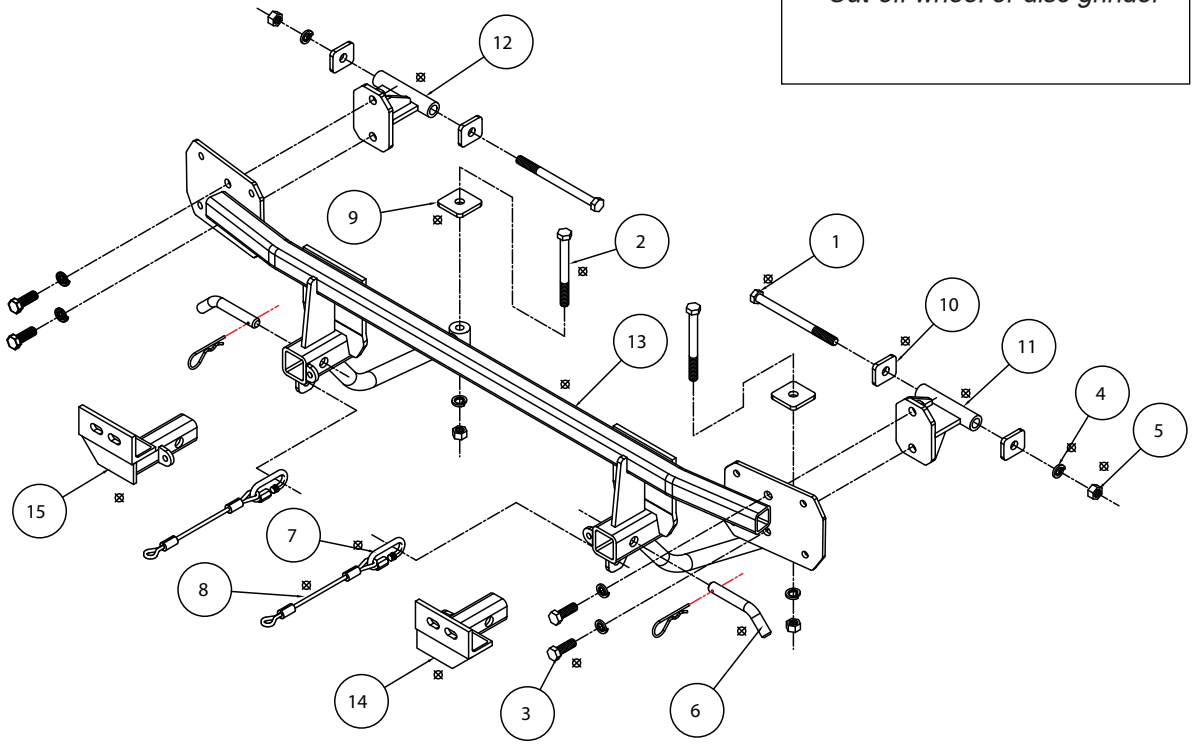
BASEPLATE KIT INSTALLATION INSTRUCTIONS

KIT# 4418-1

12/03/09
KS

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

Special tools needed:
Cut-off wheel or disc grinder



ITEM	QTY	NAME	MATERIAL
1.....2	2	1/2" x 6 1/2" BOLT	350110-00
2.....2	2	1/2" x 5" BOLT	350107-00
3.....4	4	1/2" x 1 1/2" BOLT	350095-00
4.....8	8	1/2" LOCK WASHER	350309-00
5.....4	4	1/2" HEX NUT	350258-00
6.....2	2	DRAW PIN W/ CLIP	357035-00
7.....2	2	QUICK LINK	200008-00
8.....2	2	SAFETY CABLE 8"	650646-08
9.....2	2	1/4" x 2" x 2" RD. HOLE BACKING PLATE	A-001066
10.....4	4	1/4" x 1 1/2" x 1 3/4" RD. HOLE BACKING PLATE	A-001864
11.....1	1	DRIVER SIDE BRACE	C-001723
12.....1	1	PASSENGER SIDE BRACE	C-001724
13.....1	1	MAIN RECEIVER	C-001725
14.....1	1	DRIVER SIDE ARM	C-001726
15.....1	1	PASSENGER SIDE ARM	C-001727



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This bracket kit is one of our XL series, which allows the visible front portion of the brackets to be easily removed (Fig.A and Fig.B). The kit consists of the main receiver brace, removable front braces and a hardware pack.

The main receiver brace mounts to the front frame and bumper core on each side. The removable front braces insert into the receivers on each side and are secured with draw pins.

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.



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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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. Remove two 10mm screws and four plastic fasteners attaching the top of the fascia to the core support (Fig.C).



2. On each side, remove three 5.5mm screws and one plastic fastener attaching the fender liner to the fascia (Fig.D).
3. Remove three plastic fasteners attaching the bottom of the fascia to the radiator support (Fig.E).
4. Remove two plastic fasteners attaching the fascia to the bumper core just above the lower grille (Fig.F).
5. Disconnect the fog lights, if the vehicle is so equipped.
6. Pull out and forward to remove the fascia (Fig.G).





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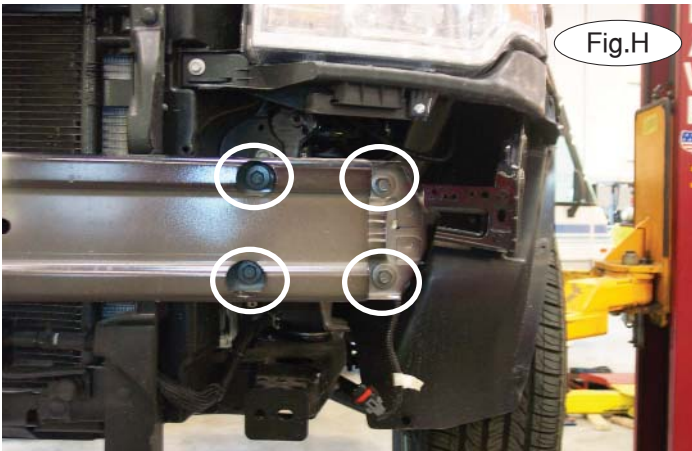


Fig.H

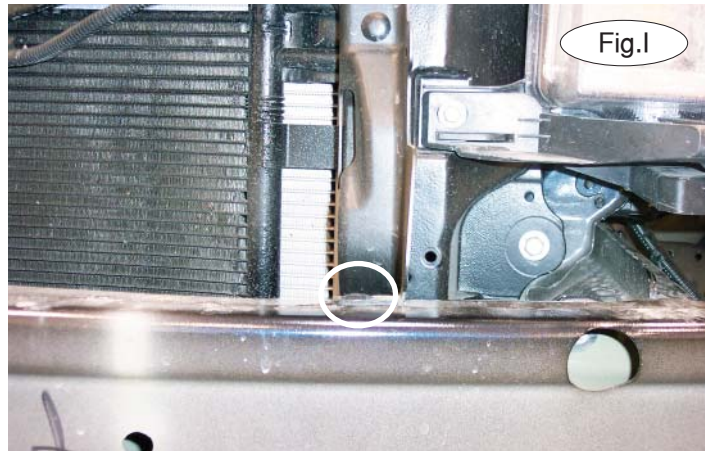


Fig.I

7. On each side, remove four 13mm (head) bolts attaching the bumper core to the end of the frame rail (Fig.H).
8. On each side, remove a plastic fastener attaching the air deflectors to the bumper core (Fig.I).



Fig.J

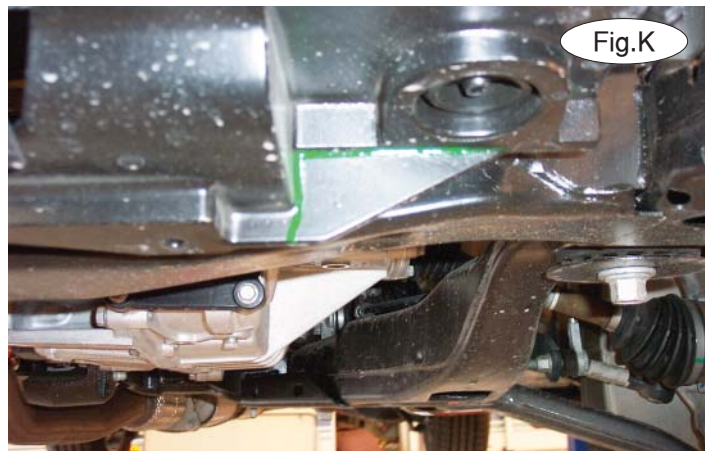


Fig.K

9. On each side, use a sharp 3/8" drill bit to drill out the two spot welds attaching the bumper core to the end of the frame rail (Fig.J – driver's side).

10. Remove the bumper core. It will not be replaced. *Note:* retain the bumper core so that it can be replaced if the bracket is ever removed.

11. On each side, use a cut-off wheel or disc grinder to trim the radiator support. Use the green lines in Figure K (driver's side) as a guide for trimming.

12. On each side, use the four supplied 1/2" x 1 1/2" bolts and lock washers to bolt the passenger and driver's side braces to the main receiver brace. Leave the bolts completely loose for now (Fig.L). *Note:* the welded tube will be used for attachment in step 16.

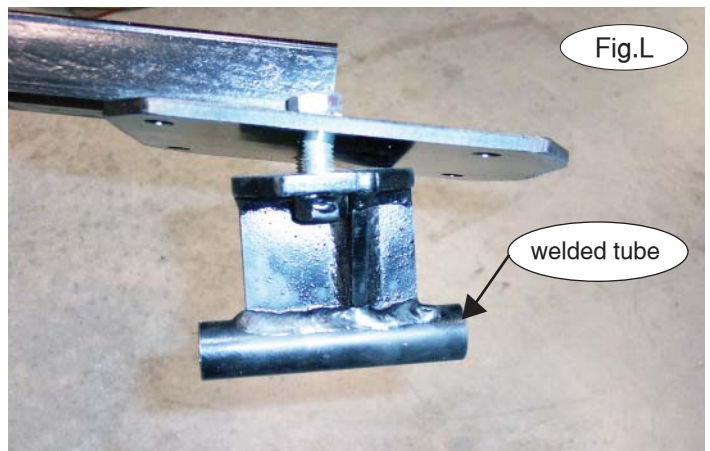


Fig.L

welded tube

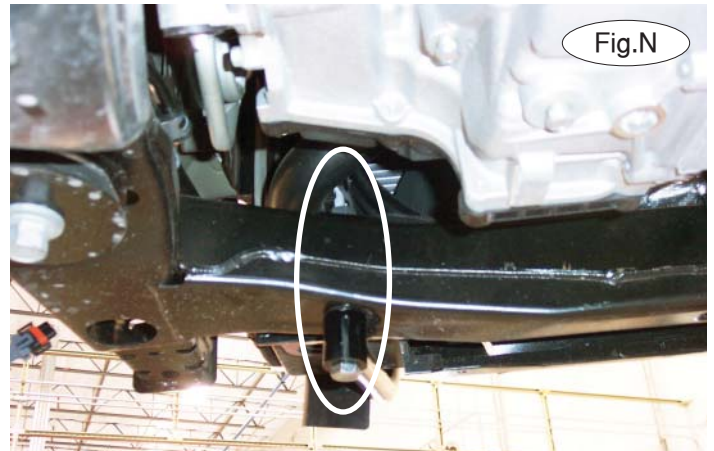
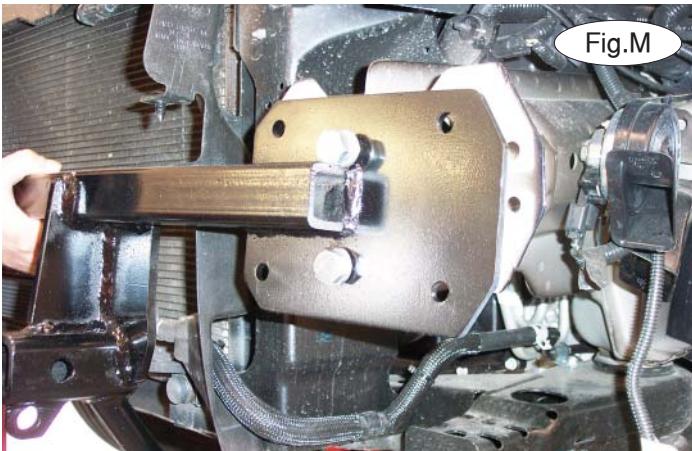


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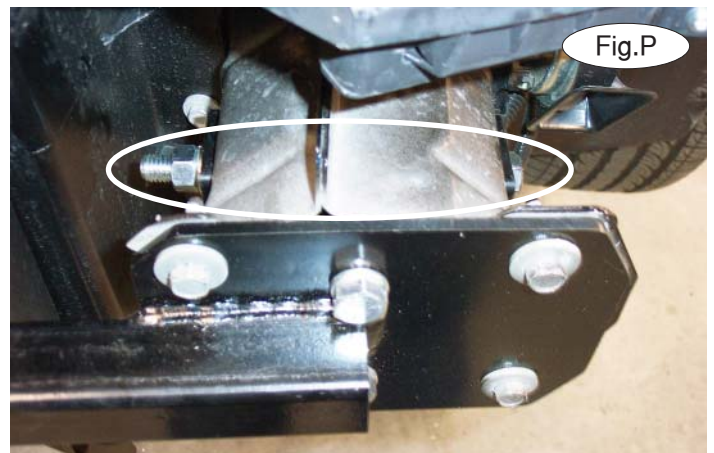
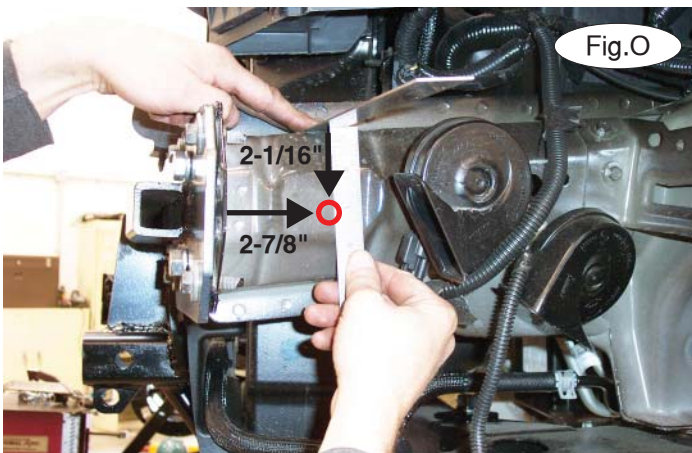
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13. Set the main receiver brace over the ends of the frame rails so the rear braces slip into the frame rails (Fig.M – driver’s side). Replace the eight bumper core bolts you removed in step 7. *Note:* use thread lock on the bolts.
14. On each side, tighten the bumper core bolts to the bolt torque requirements found at the end of this document. Now, tighten the ½" bolts to the bolt torque requirements.
15. Working on the driver’s side only, bolt through the lower rear mounting point of the main receiver brace and subframe using a ½" x 5" bolt. Place a ¼" x 2" x 2" backing plate on the top side of the subframe. Finish with a ½" lock washer and nut (Fig.N). *Note:* due to manufacturing variances, the pre-existing hole may need to be enlarged.



16. Measure 2-7/8" from the back surface of the end of the frame rail and 2-1/16" from the top surface of the frame. Where the two intersect (Fig.O – driver’s side), mark a hole, and using a ½" drill bit, drill a hole through the outside of the frame rail, pass through the welded tube, and through the inside frame rail.
Place a ¼" x 1½" x 1¾" backing plate over a ½" x 6½" bolt. Thread the bolt through the hole you just drilled and into another ¼" x 1½" x 1¾" backing plate on the outer edge of the inside frame rail. Finish with a ½" lock washer and nut (Fig.P).
17. Repeat steps 15 and 16 for the passenger side. Tighten all bolts to the bolt torque requirements found at the end of this document.

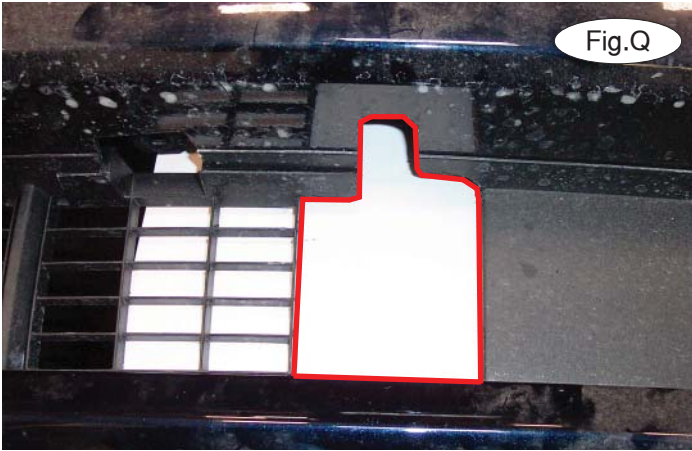


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18. On each side, measure 1¼" from the side of the grille opening and remove a 1" x 2¾" piece from the top of the grille. Trim the four outside horizontal ribs and one vertical rib from the grille. Use the red lines in Figure Q (driver's side) as a guide for trimming.
19. Reassemble the fascia, reversing steps 1 through 6.
20. Insert the removable front bracket arms into the front receiver braces, and secure them in place with the supplied 5/8" draw pins and spring pins.
21. Attach the 8" safety cables with the cable connectors (Q-Links) to the front of the receiver braces (Fig.R).
22. Attach the ends of the safety cables to the tow vehicle's safety cables.
23. Install the tow bar to the mounting bracket according to the manufacturer's instructions.

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.