

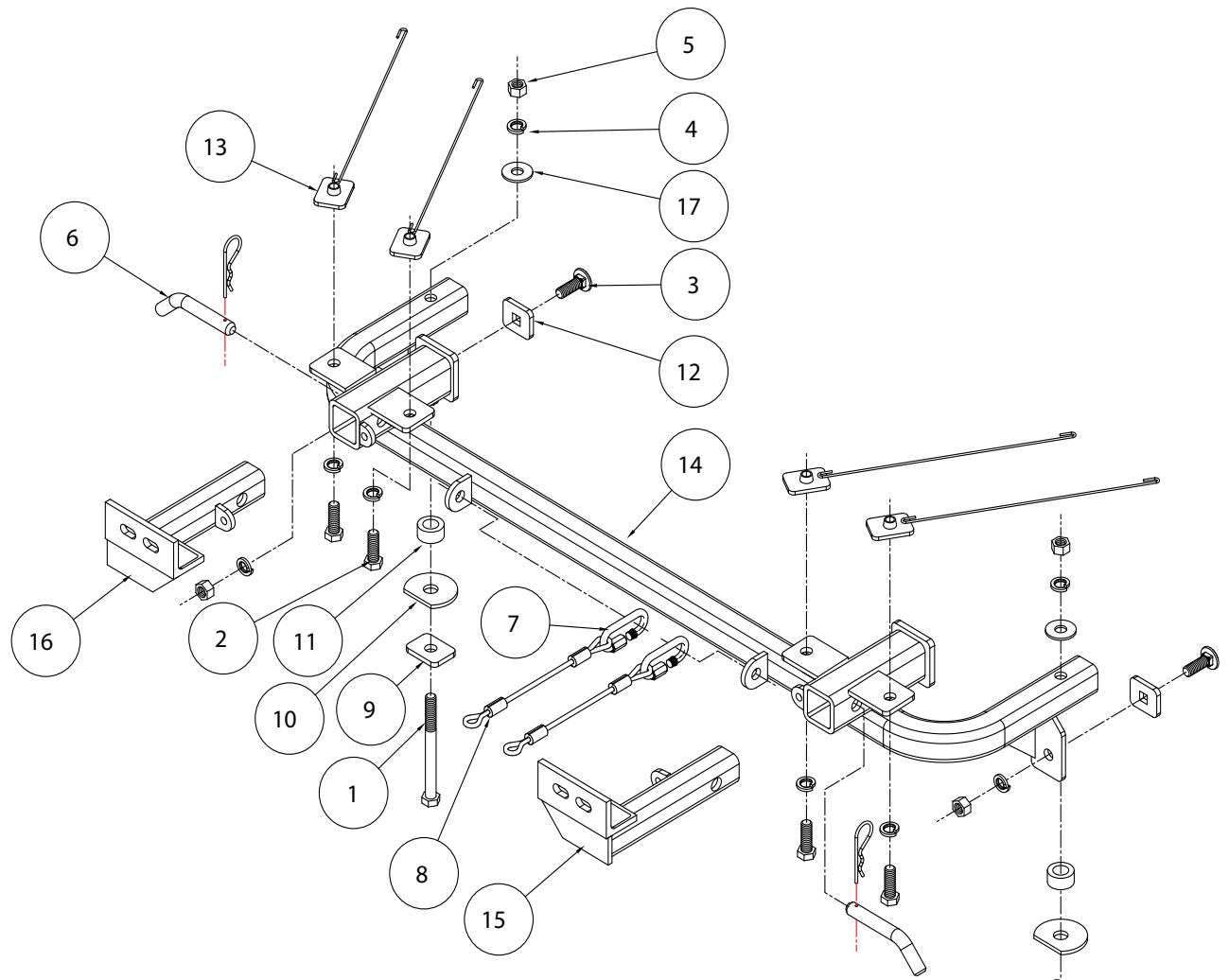


BASEPLATE KIT INSTALLATION INSTRUCTIONS

KIT# 4416-1

02/28/19
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 5 1/2" BOLT.....	350108-00
2.....4.....	4	1/2" x 1 1/2" BOLT.....	350095-00
3.....2.....	2	1/2" x 1 1/2" CARR. BOLT	350362-00
4.....8.....	8	1/2" LOCK WASHER	350309-00
5.....4.....	4	1/2" HEX NUT.....	350258-00
6.....2.....	2	5/8" DRAW PIN W/ CLIP	357035-00
7.....2.....	2	QUICK LINK	200008-00
8.....2.....	2	8" SAFETY CABLE.....	500646-08
9.....2.....	2	1/4" x 1 1/2" x 2" BACKING PLATE	A-000122
10.....2.....	2	3/16" CLIPPED PLATE WASHER	A-001763
11.....2.....	2	1 1/4" O.D. x 0.25 WALL x 5/8" PIPE SPACER.....	A-001068
12.....2.....	2	1/4" x 1 1/2" x 1 3/4" SQ. HOLE BACKING PLATE	A-000196
13.....4.....	4	1/4" x 1 1/2" x 2" BACKING PLATE W/ NUT & ROD	C-001438
14.....1.....	1	MAIN RECEIVER	C-001596
15.....1.....	1	DRIVER SIDE ARM.....	C-001597
16.....1.....	1	PASSENGER SIDE ARM	C-001598
17.....2.....	2	1/2" FLAT WASHER	350308-00



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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 consists of a main receiver brace, two removable front braces and a hardware pack. The main receiver brace mounts to the frame rails. The removable front braces install in the main receiver brace.

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.

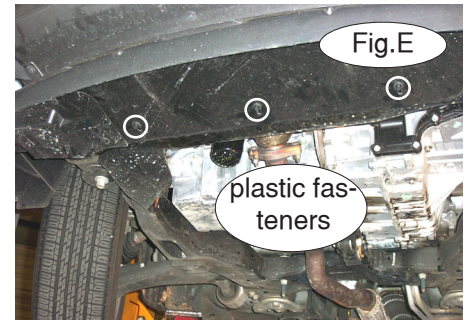
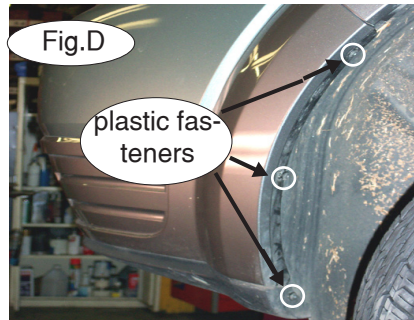
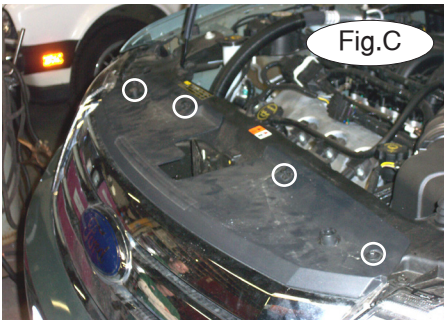


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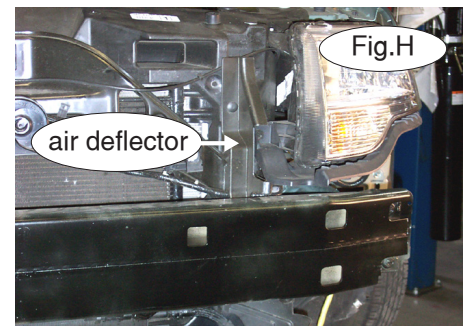
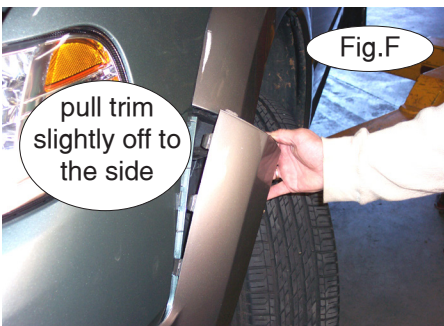
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1. **Important:** please use all supplied bolts and parts and read all instructions carefully before beginning this installation. The majority of questions you may have can be answered within the text, and proper installation will ensure safe and secure travel. Now, begin the installation by removing two 8mm (head) bolts and two plastic fasteners attaching the top of the fascia to the core support (Fig.C).

2. On both sides, remove three Phillips head screws attaching the fender liner to the edge of the fascia (Fig.D).

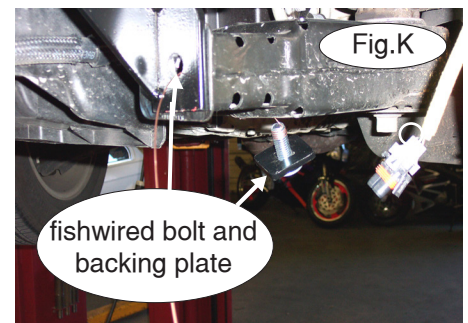
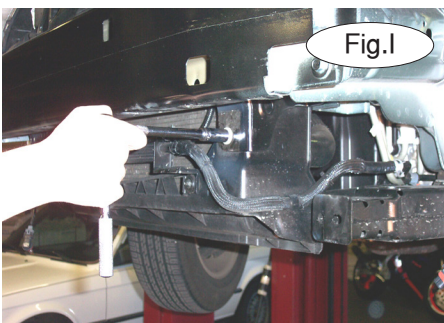
3. On both sides, remove three plastic fasteners attaching the splash shield to the subframe (Fig.E).



4. On both sides, pull the outer trim piece slightly off to the side (Fig.F).

5. On both sides, pull out and forward on the fascia to remove (Fig.G). *Note:* disconnect the fog lights, if the vehicle is so equipped, before removing the fascia completely.

6. On both sides, remove the two plastic air deflectors near the headlamp assembly (Fig.H). They will not be replaced. *Note:* retain the plastic air deflectors and any attachment hardware for replacement in case the bracket is ever removed.



7. On both sides, remove the two 13mm (head) bolts attaching the hood latch support to the radiator support (Fig.I). Position the main receiver brace for installation. Using these same 13mm (head) bolts, place them through the receivers in the main receiver brace and through the existing holes in the rear of each receiver (Fig.J). Bolt into place through the existing weld nuts in the frame rail.

8. On both sides, fishwire the supplied $\frac{1}{2}$ " x $1\frac{1}{2}$ " bolt and $\frac{1}{4}$ " x $1\frac{1}{2}$ " x $\frac{3}{4}$ " backing plate through the existing opening in the frame rail and the bracket (Fig.K). *Note:* the hole may need to be slightly enlarged with a die grinder.

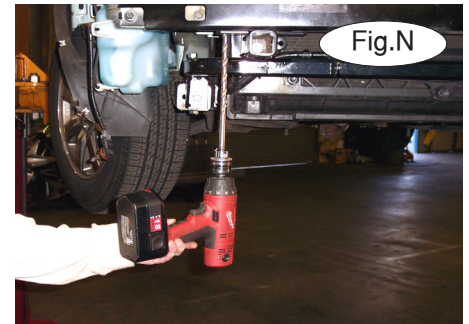
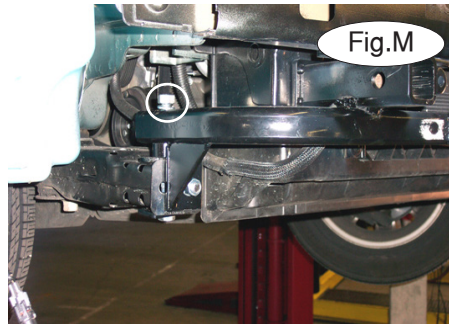
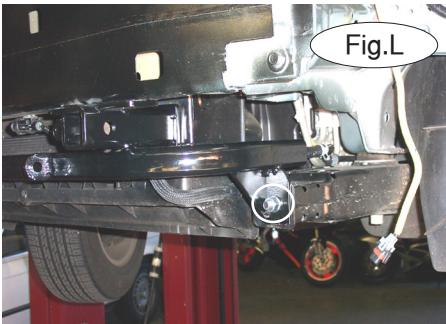


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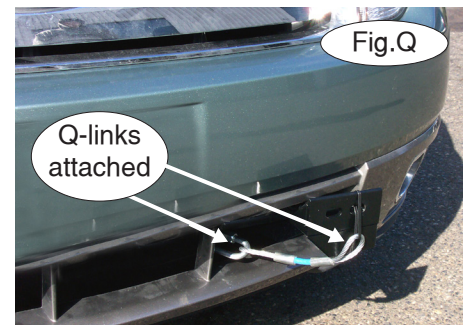
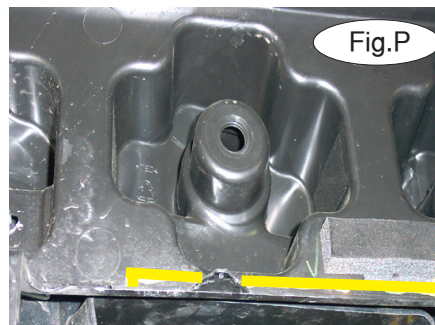
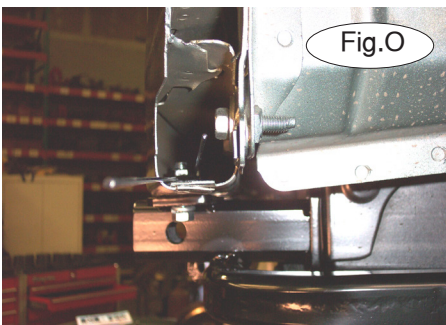


9. Hand-tighten the fishwired bolt and backing plate using a ½" lock nut and washer (Fig.L).

10. On both sides, place the supplied ½" plate washer and 1¼" x 5/8" spacer between the subframe and the main receiver brace. Using the supplied ½" x 5½" bolt and ¼" x 1½" x 2" backing plate, bolt through the subframe, plate washer, pipe spacer and main receiver brace. Finish with the supplied ½" lock washer, flat washer and nut (Fig.M).

11. Using the existing holes in the main receiver brace as a template, drill four ½" holes through the bumper core (Fig.N). For each hole, place the supplied ¼" x 1½" x 2" backing plate inside the frame rail and bolt into place using the supplied ½" x 1½" bolt (Fig.O). Use a pair of pliers to break off the ends of the wire used to fishwire the bolt in step 8.

Tighten all bolts to the torque specifications at the end of these instructions.



12. A small portion of the fascia will need to be trimmed before it is reinstalled over the mounting bracket. Using the yellow lines in Figure P as a reference, trim a small portion of the fascia and test fit. Repeat until the main receiver braces are able to pass through without interference.

13. Reinstall the fascia, reversing steps 1 through 5.

14. 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.

15. Install the tow bar to the mounting bracket according to the manufacturer's instructions. Attach one end of the included 8" 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 the tow bar.

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.