



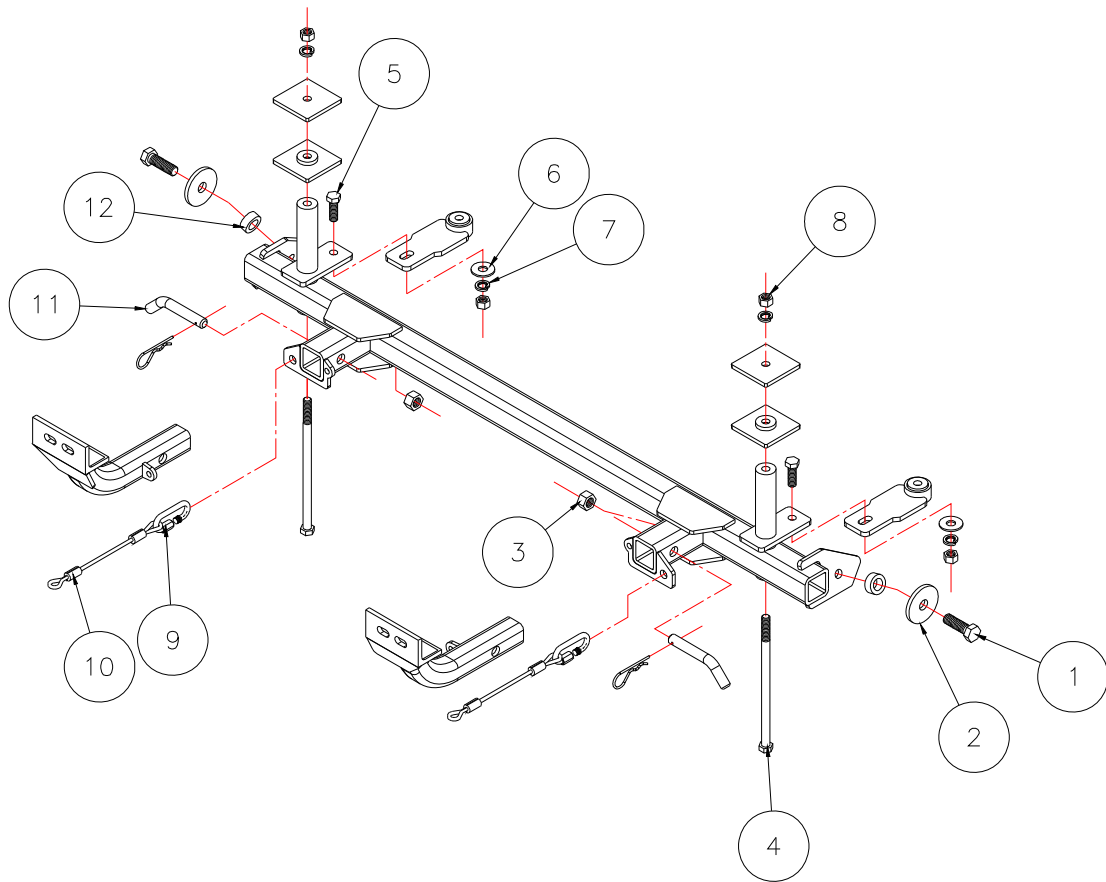
# BASEPLATE KIT INSTALLATION INSTRUCTIONS

**KIT# 2107-1**

02/15/08

KS

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



## HARDWARE LIST

Item	Qty.	Length	Width	Name	Part No.
1	2	2"	5/8"	CAPSCREW	350150-00
2	2	2 1/2"	5/8"	PLATE WASHER	350352-00
3	2	5/8"		NUT	350262-00
4	2	9 1/2"	1/2"	BOLT	350118-00
5	2	1 1/2"	1/2"	BOLT	350095-00
6	2		1/2"	FLAT WASHER	350308-00
7	4		1/2"	LOCK WASHER	350309-00
8	4		1/2"	NUT	350258-00
9	2			CONNECTOR	200008-00
10	2		10"	SAFETY CABLE	500646-10
11	2			DRAW PIN / SPRING PIN	357035-00
12	2	1/2"	1 1/4"	SPACER	150096-00



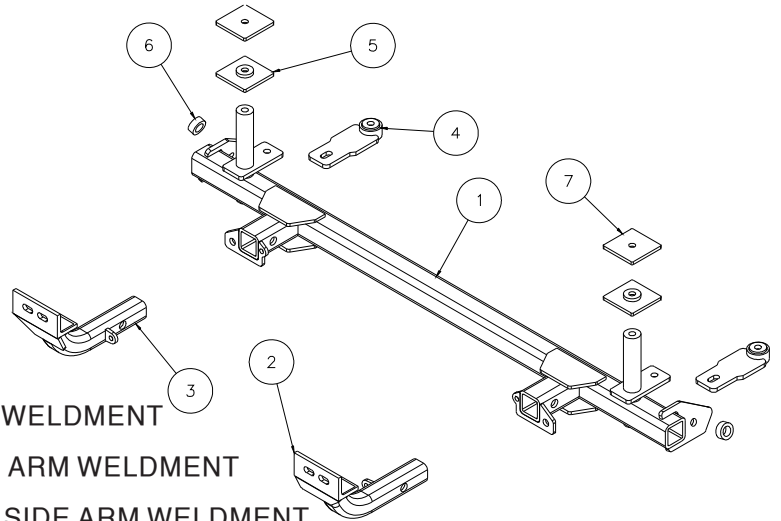
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Item	Qty	Name	Assembly
1	1	C-000495	MAIN BRACE WELDMENT
2	1	C-000496	DRIVER SIDE ARM WELDMENT
3	1	C-000497	PASSENGER SIDE ARM WELDMENT
4	2	C-000498	REAR BRACE WELDMENT
5	2	C-000499	BACKING PLATE WELDMENT
6	2	A-000783	1/2" TUBE SPACER

**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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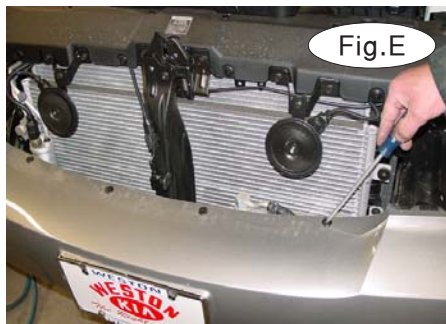
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ROADMASTER, Inc. 5602 N.E. Skyport Way Portland, OR 97218 1-800-669-9690 Fax (503) 288-8900 www.roadmasterinc.com

This bracket kit is one of our XL series, which is designed to be partly removable. The kit consists of the main receiver brace, front brace and a hardware pack. The main receiver brace mounts behind the front bumper fascia and lower grille. The front brace inserts through the lower grille under the bumper into the receiver brace on each side (Fig. A). 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.



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. Start by removing the headlight fasteners, (three 10mm bolts per headlight). Pull the headlights forward, disconnect from the wiring harness then set out of the way (Fig. B,C,D).



2. Remove four plastic fasteners between the headlight openings securing the top of the bumper fascia, then three more flat fasteners in each headlight opening (Fig.E,F).

3. Remove two fender fascia bolts (10mm head) in each headlight opening (Fig. G,H).

4. Move to the fender well openings and remove one fastener (10mm head) located at the junction of the fender and the fascia on each side (Fig.I).







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Fig.K



Fig.L



Fig.M

5. Move below the fascia in front of the fender wells and remove two plastic fasteners and a screw (10mm head) on each side (Fig.J,K).
6. Remove four plastic fasteners located underneath the bumper in the lower grill opening (Fig. L,M).



Fig.N

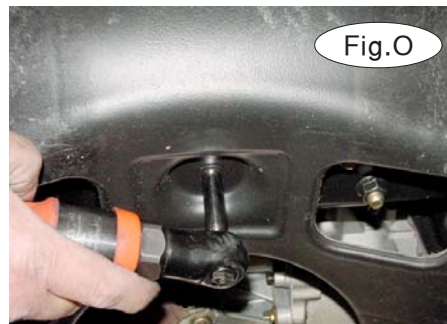


Fig.O



Fig.P

7. Disconnect the foglights, if present, then pull forward to remove the front fascia and set it aside (Fig.N).
8. Remove the lower splash guard (6-10mm head bolts)(Fig. O,P).
9. Remove the bumper core (four 14mm nuts)(Fig.Q) then the bumper core brackets (two 10mm bolts) on each side (Fig.R).

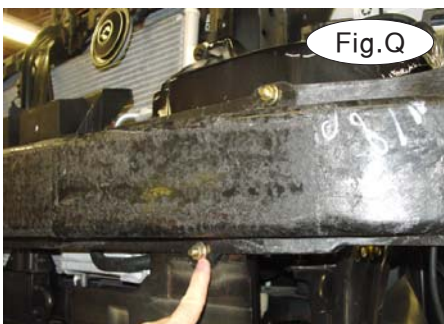


Fig.Q

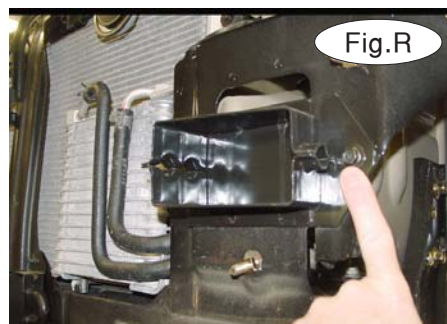


Fig.R

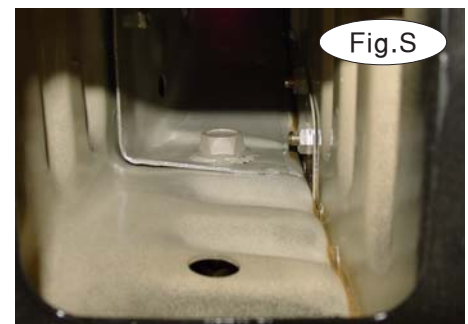


Fig.S

10. Locate a large hole in the bottom of each frame tube (Fig.S), insert a 1/4" x 3" backing plate, lock washer and nut on the top of this hole in each frame tube in preparation for the next step (Fig.T).

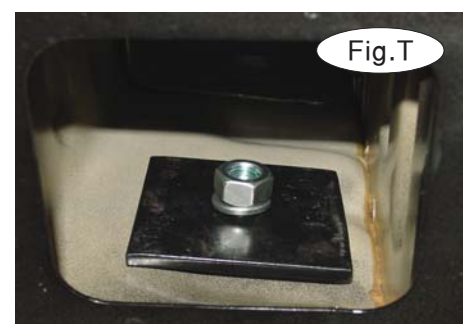


Fig.T



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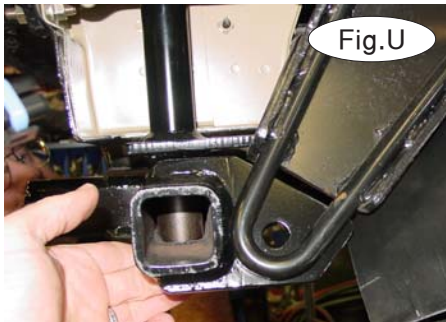


Fig.U

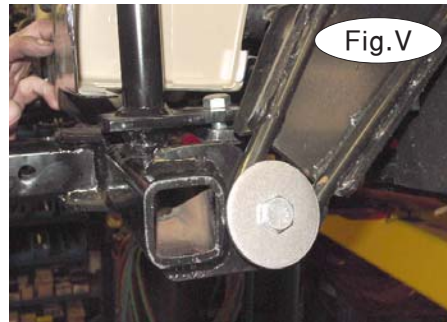


Fig.V

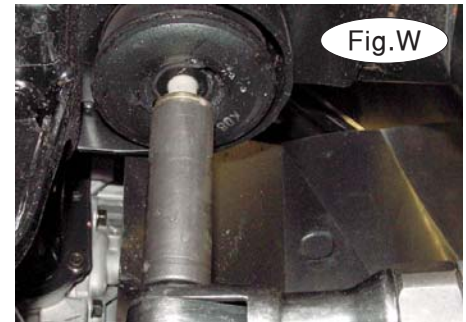


Fig.W

11. Take the main receiver brace and assemble  $\frac{1}{2}$ " x  $9\frac{1}{2}$ " bolts in each end with 3x3" spacer plates assembled as illustrated in the hardware drawing. Take this assembly and hold it to the bottom of the frame between the large side tow loops and bolt through the two bottom frame holes and the  $\frac{1}{4}$ " x 3" backing plate with  $\frac{1}{2}$ " nuts and lock washers on each side (Fig.U).
12. Bolt through the large tow loops on each side with  $\frac{5}{8}$ " x 2" bolts,  $\frac{1}{2}$ " spacers, plate washers, lock washers and nuts (Fig.V).
13. Remove the large subframe nut on one side at a time and install a rear brace on each mount (Fig.W). Bolt through the front of the rear braces and the main receiver brace with a  $\frac{1}{2}$ " x  $1\frac{1}{2}$ " bolt, flat washer, lock washer and nut (Fig.X).

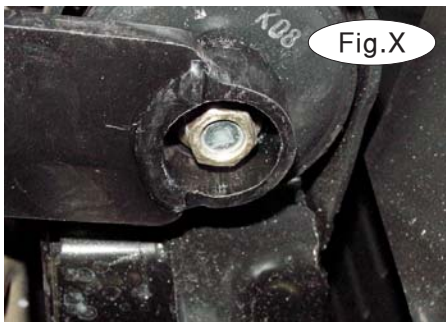


Fig.X

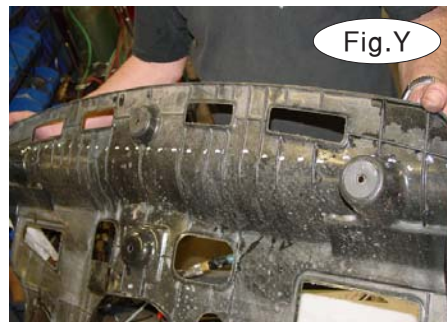


Fig.Y



Fig.Z

14. Align the brace and tighten all mounting bolts to the torque specifications below .
15. Trim the front of the lower splash deflector to fit and reinstall with five of the original fasteners (Fig.Y).
16. Trial fit the fascia, mark and trim as needed (Fig.Z) then reinstall the front bumper fascia and headlights reversing the previous steps 1 through 7.
17. Insert the front brace into the receiver tubes and secure with  $\frac{5}{8}$ " draw pins and  $\frac{1}{8}$ " spring pins.
18. Install the tow bar according to the manufacturer's instructions and torque all mounting bolts to the specifications below.
19. Attach one end of the included safety cables to the lower front hole in the side mounting plate on each side of the receiver braces with the included cable connectors. Connect the other end to the tow vehicle's safety cables and the tow bar (Fig.AA).

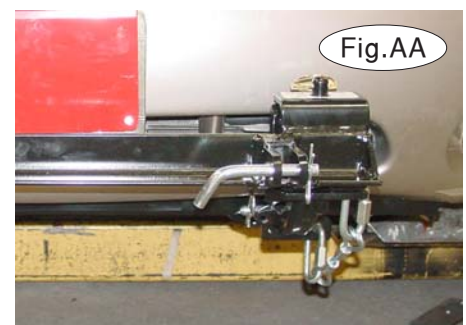


Fig.AA



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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.