

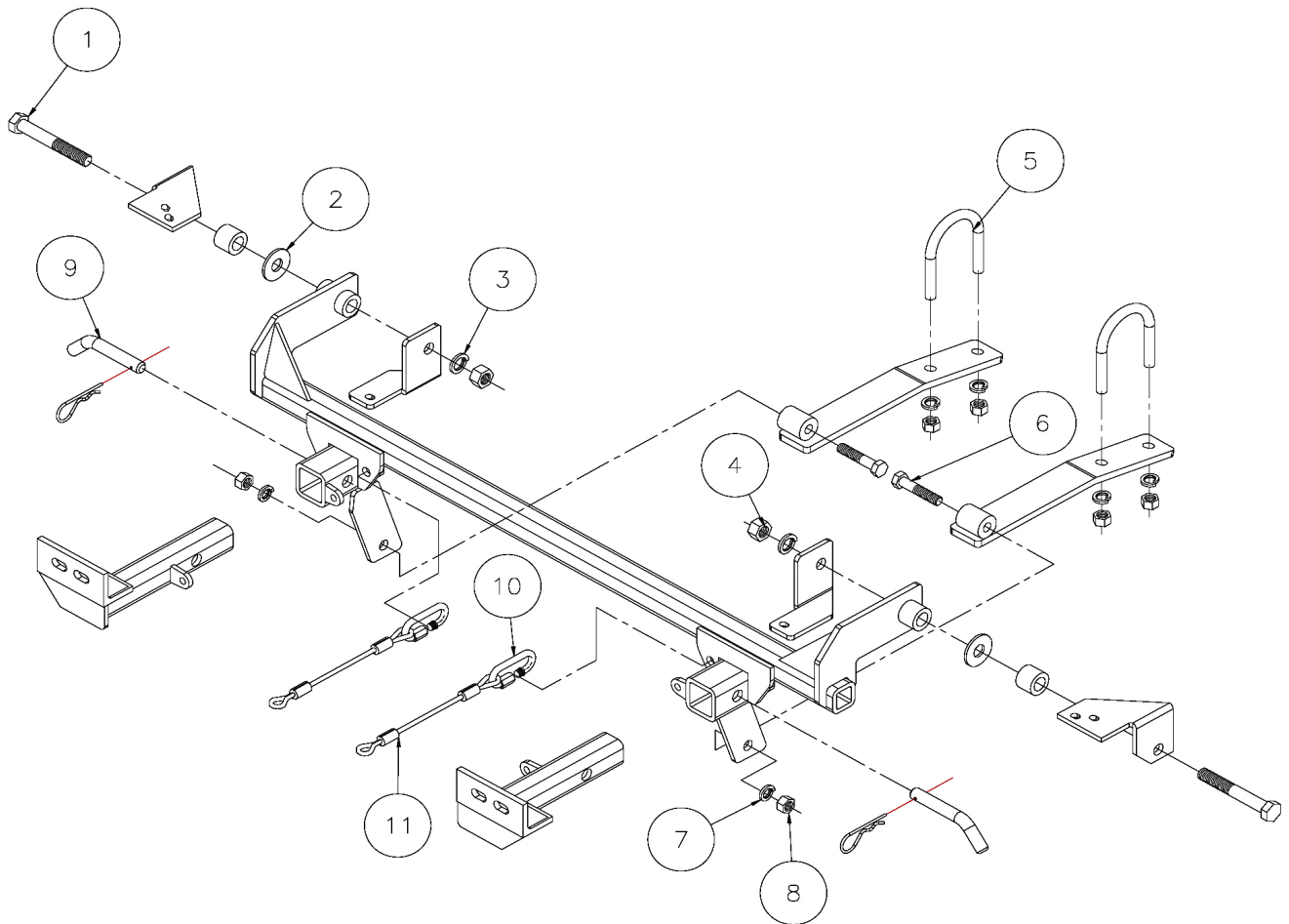


# BASEPLATE KIT INSTALLATION INSTRUCTIONS

**KIT# 1549-1**

04/01/13  
KS

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



Item	Qty	Length	Width	Hardware	Part No.
1	2	4 1/2"	5/8"	BOLT	350159-00
2	2		5/8"	FLAT WASHER	350312-00
3	2		5/8"	LOCK WASHER	350313-00
4	2		5/8"	NUT	350262-00
5	2			1/2" X 2 3/4" X 3 7/8" U-BOLT	375302-00
6	2	2 1/2"	1/2"	BOLT	350099-00
7	6		1/2"	LOCK WASHERS	350309-00
8	6		1/2"	NUT	350258-00
9	2			DRAW PIN / SPRING PIN	357035-00
10	2			CONNECTORS	200008-00
11	2	10"		SAFETY CABLES	357035-00

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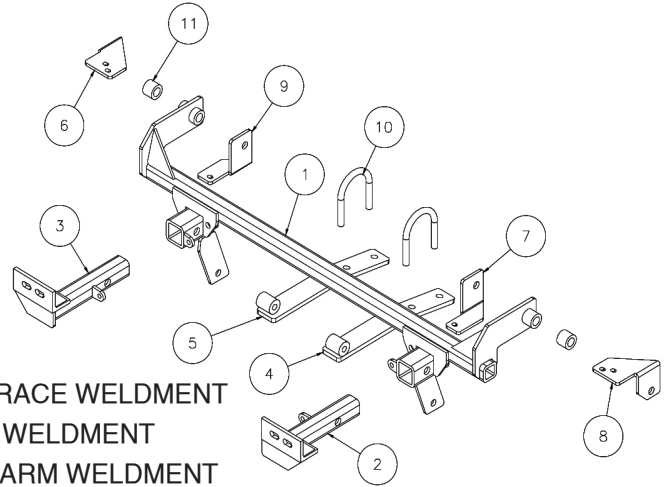


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Item	Qty	Name	Assemblies
1	1	C-000589	MAIN RECEIVER BRACE WELDMENT
2	1	C-000590	DRIVER SIDE ARM WELDMENT
3	1	C-000591	PASSENGER SIDE ARM WELDMENT
4	1	C-000592	DRIVER SIDE REAR BRACE WELDMENT
5	1	C-000593	PASSENGER SIDE REAR BRACE WELDMENT
6	1	B-000416	PASSENGER SIDE UPPER BACKING PLATE
7	1	B-000417	DRIVER SIDE LOWER BACKING PLATE
8	1	B-000418	DRIVER SIDE UPPER BACKING PLATE
9	1	B-000419	PASSENGER SIDE LOWER BACKING PLATE
10	2	357302-00	U-BOLT
11	2	A-000943	1 1/4" O.D. x .25 WALL x 1" SPACER TUBE

**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
- Use lock washers on all fasteners

## WARNING

Failure to follow the below warnings and the installation instructions may result in voiding your warranty, property damage, the loss of your towed vehicle, personal injury or even death.

- We strongly recommend professional installation.
- The installer must read the instructions and use all bolts and parts supplied.
- 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.
- Every 3,000 miles, the owner must inspect the fasteners for proper torque, according to the bolt torque requirements chart on the last page of these instructions. The owner must also inspect all mounting points for cracks or other signs of fatigue every 3,000 miles.
- The owner must check the vehicle manufacturer's instructions for the proper procedure(s) to prepare the vehicle for towing. Some vehicles must be equipped with a transmission lube pump, an axle disconnect, driveline disconnect or free-wheeling hubs before they can be towed. Failure to properly equip the vehicle will cause severe damage to the transmission.
- Do not weld. This baseplate is designed to be bolted to the vehicle. Welding will void the warranty.
- Do not use this document for custom fabrication, as it may not show all parts or structural components could result in loss of the towed vehicle.
- 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.
- If running changes were made by the vehicle manufacturer after this

kit was designed, some bolts or other fasteners in the hardware pack may no longer be the correct size. It is the installer's responsibility to verify this kit is securely fastened to the vehicle and fitted with the correct hardware to account for these changes.

- 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 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, motorhome and/or towed vehicle.
- 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. Refer to the cable instructions for proper routing. Failure to leave enough slack in the safety cables, or failure to connect the safety cables frame to frame, will result in 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.
- Upon final installation, the installer must inspect the baseplate to ensure adequate clearance, particularly around hoses, air conditioner lines, radiators, etc.
- 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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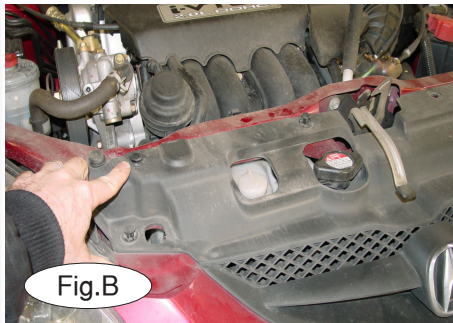
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This bracket kit is one of our XL series, (FIG.A) which is designed to be partly removable. The kit consists of the main receiver brace, two front arm braces, two lower braces and a hardware pack. The main receiver brace mounts behind the front bumper fascia to the inside of the frame (Fig.A). The lower braces attach to the front of the radiator support on each side. The front arm braces insert into the receivers 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 all the 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 six plastic fasteners in the top of the front bumper fascia (Fig.B).
2. Remove one (8mm head) phillips screw (Fig.C) and top fastener (10mm head) in each fender well (Fig.D).
3. Remove the splash panel fasteners ( two phillips screws) (Fig.E) and plastic fasteners underneath the fascia (Fig.F).
4. Pull the fascia out on each side then forward to remove (Fig.G) and set aside.





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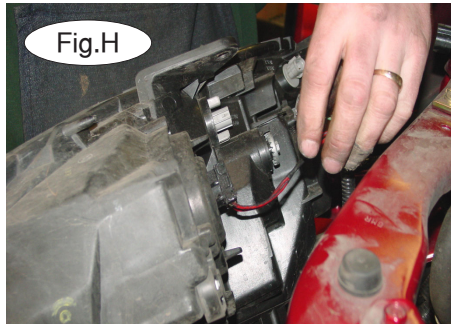


Fig.H

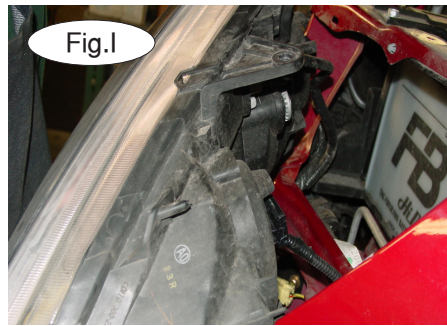


Fig.I



Fig.J

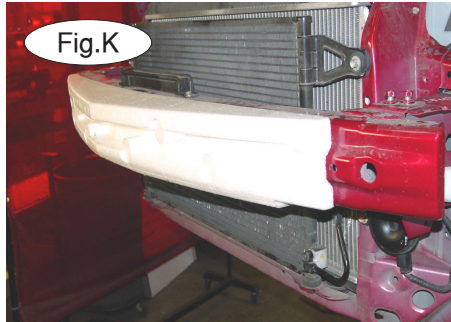


Fig.K

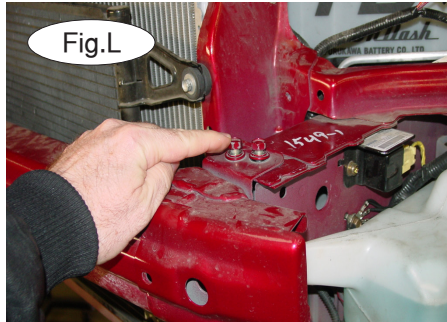


Fig.L

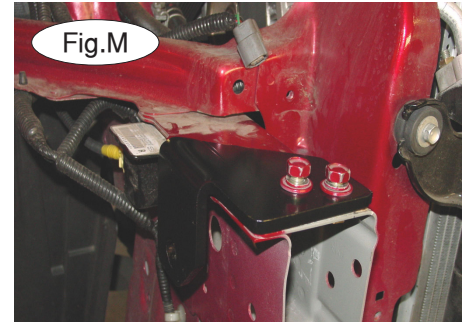


Fig.M

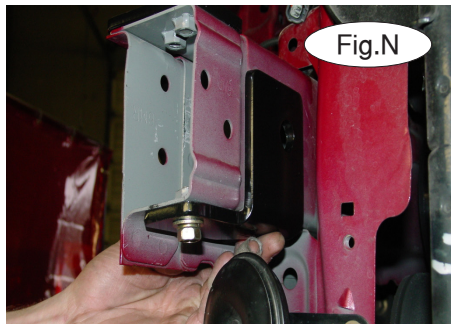


Fig.N

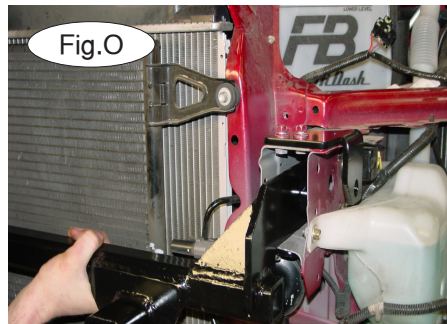


Fig.O

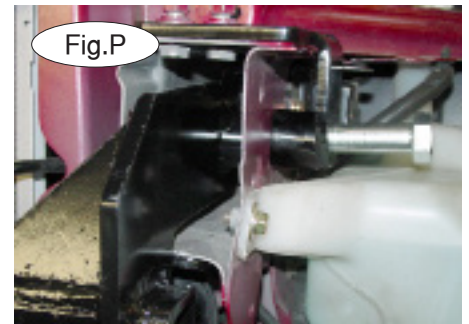


Fig.P

5. Remove the headlights (four 10mm head) bolts per headlight (Fig.H,I,J).
6. Remove the bumper core (two 12mm head bolts on each side (Fig.K,L)).  
*Note: the main receiver brace will replace the steel bumper core and foam.*
7. Fit the top brace on the front of the frame on each side using the stock bumper core mounting bolts (FIG.M).
8. Fit the lower brace to the bottom of the frame on each side and bolt in place with a stock bumper core bolts (Fig.N).
9. Find the 5/8" x 4 1/2" bolts and 1" spacers. Insert the bolts through the top braces on each side with a 1" spacer between the frame and side brace as shown in (Fig.P). Leave the bolts inserted with the ends of the bolts flush with the inside of the frame wall then install the receiver brace in the front of the frame on each side (Fig.O).

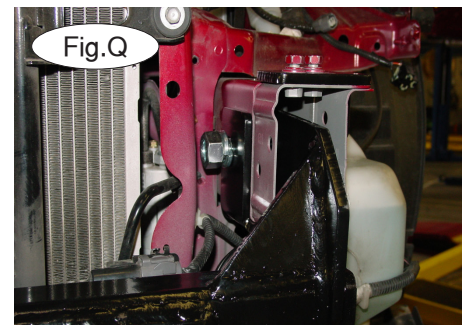


Fig.Q

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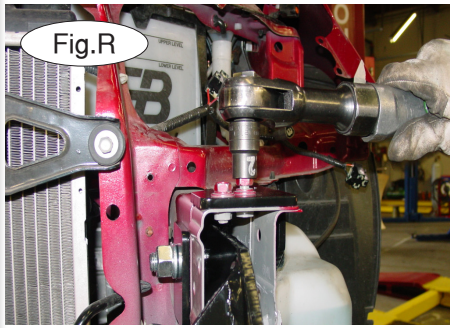


Fig.R



Fig.S

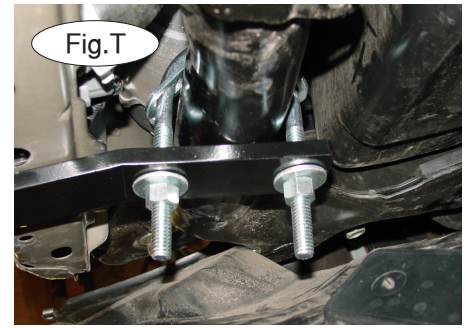


Fig.T

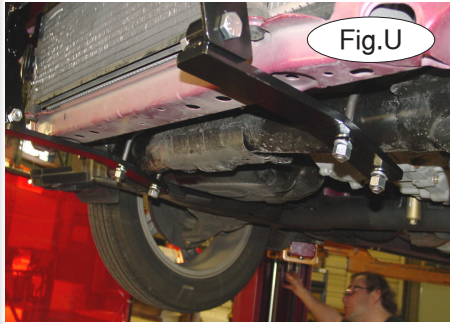


Fig.U

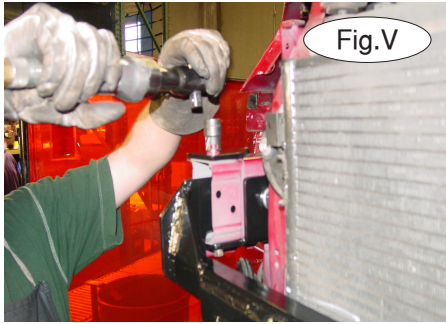


Fig.V

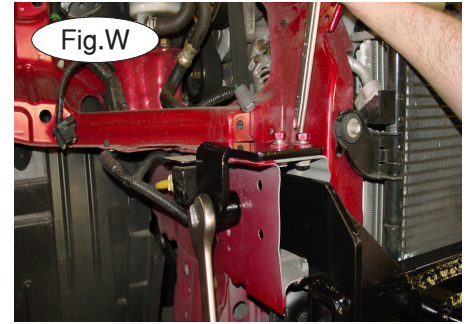


Fig.W



Fig.X



Fig.Y

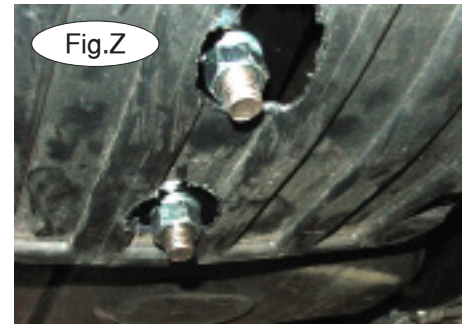


Fig.Z

10. Insert a 5/8" flat washer inside the frame on each side then bolt through with the 5/8" x 4 1/2" bolt, lock washer and nut (Fig.Q,R).
11. Remove the lower center gravel guard to gain access for the next step (Fig.S).
12. Install the lower braces on the tubular frame cross member as shown with the included U-bolts, lock washers and nuts. Bolt through the front of the lower braces and the main receiver brace with 1/2" x 2 1/2" bolts, lock washers and nuts (Fig.T,U).
13. Align the receiver brace and torque all mounting bolts to the torque specifications below (Fig.V,W).
14. Replace the headlights removed in step 5.
15. Trim the lower gravel guard to fit over the lower braces as shown then reinstall (Fig.Z).
16. Remount the bumper fascia and mark where the lower braces contact the fascia (Fig.Y) and the upper area of the grille opening that will be trimmed to fit (Fig.X) then remove and trim.



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17. Reinstall the bumper fascia with out the bumper core and shock absorption foam reversing steps 1 and 2. The receiver brace assembly will replace these components (Fig.AA).

18. Insert the front braces into the receiver tubes and pin with 5/8" draw pins and spring pins (Fig.BB).

19. Install the tow bar according to the manufacturer's instructions and torque all mounting bolts to the specifications below.

20. Attach the ends of the safety cables to front holes 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.



Fig.AA

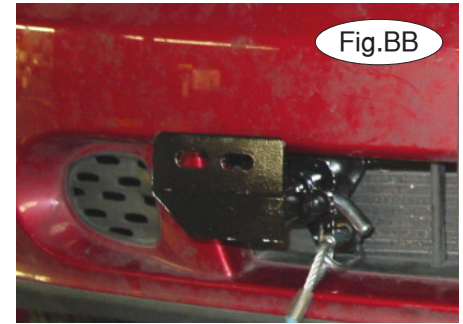


Fig.BB

## 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			METRIC BOLTS			METRIC BOLTS		
Thread Size	Grade	Torque	Thread Size	Grade	Plated / Unplated	Thread Size	Grade	Plated / Unplated
5/16.....	5.....	13 ft./lb.	8mm-1.0 .....	8.8 .....	20 ft./lb. 18 ft./lb.	12mm-1.25 .....	8.8 .....	70 ft./lb. 65 ft./lb.
3/8.....	5.....	23 ft./lb.	8mm-1.25 .....	8.8 .....	19 ft./lb. 18 ft./lb.	12mm-1.5 .....	8.8 .....	66 ft./lb. 61 ft./lb.
7/16.....	5.....	37 ft./lb.	10mm-1.25 .....	8.8 .....	38 ft./lb. 36 ft./lb.	12mm-1.75 .....	8.8 .....	65 ft./lb. 60 ft./lb.
1/2.....	5.....	56 ft./lb.	10mm-1.5 .....	8.8 .....	37 ft./lb. 35 ft./lb.	14mm-2.0 .....	8.8 .....	104 ft./lb. 97 ft./lb.
5/8.....	5.....	150 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.

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