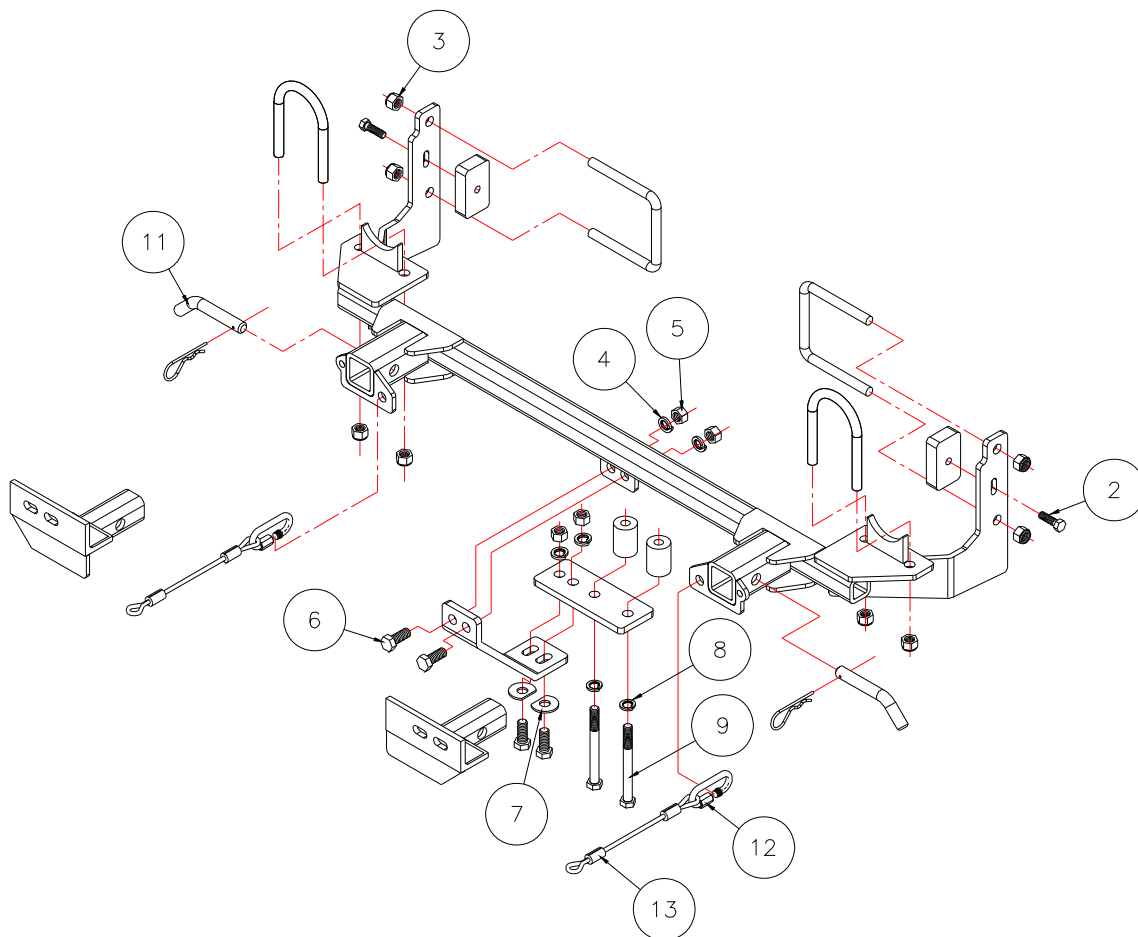




# BASEPLATES KIT INSTALLATION INSTRUCTIONS

**KIT# 821-1**  
03/09/05  
RV

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



Item	Qty.	Length	Width	Hardware	Part No.
2	2	1"	3/8"	BOLT	350055-00
3	8		1/2"	NY-LOCK NUT	350259-00
4	4		1/2"	LOCK WASHER	350309-00
5	4		1/2"	NUT	350258-00
6	4	1 1/4"	1/2"	BOLT	350094-10
7	2		1/2"	CUT FLAT WASHER	350308-20
8	2		12mm	LOCK WASHER	355725-00
9	2	110mm	12mm	12mm x 1.50 x 110mm BOLT	357113-00
11	2			DRAW PIN/SPRING PIN	350357-00
12	2			CABLE CONNECTORS	200008-00
13	2	8"		SAFETY CABLES	500646-08



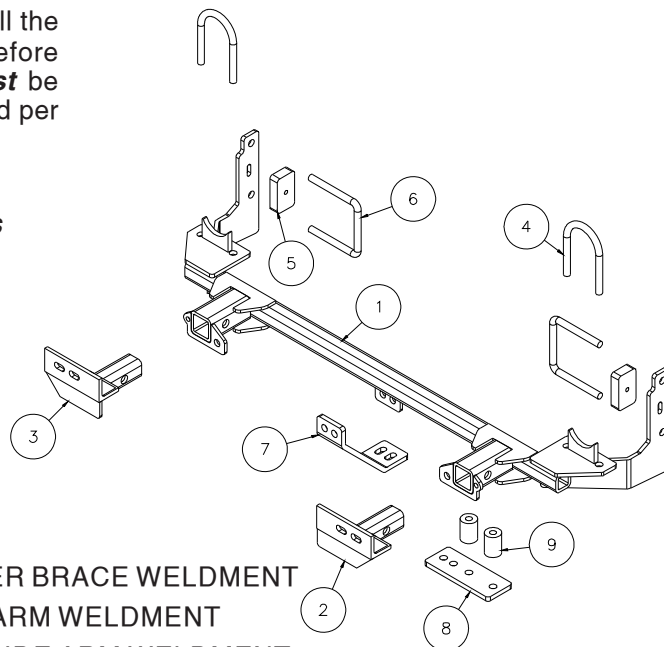
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**IMPORTANT:** All brackets *must* be assembled with all the bolts left loose for final adjustment & positioning (before tightening) unless otherwise instructed. All bolts *must* be torqued for proper strength. If more than one bolt is used per fastening point, the diagram may only show one.

- Use flat washers over all slotted holes
- Use lock washers on all fasteners



Item	Qty	Part No.	Assembly
1	1	C-000727	MAIN RECEIVER BRACE WELDMENT
2	1	C-000728	DRIVER SIDE ARM WELDMENT
3	1	C-000729	PASSENGER SIDE ARM WELDMENT
4	2	357352-00	1/2" x 2 3/4" x 4 3/4" U-BOLT
5	2	C-000784	3/4" x 1 3/4" x 3" THREADED SPACER
6	2	357320-00	1/2" x 4" x 4" U- BOLT
7	1	B-000503	LOWER BRACE PLATE
8	1	A-001236	MOUNTING PLATE
9	2	A-000881	1 1/4" O.D. x 1 3/4" TUBE

## WARNING

Failure to follow these instructions can result in property damage, personal injury or even death.

- Installation of most mounting brackets requires moderate mechanical aptitude and skills. We strongly recommend professional installation by an experienced installer.
- The installer must read the instructions and use all bolts and parts supplied. Failure to do so could result in loss of the towed vehicle.
- Use Loctite® Red on all bolts used for mounting this bracket.
- Do not use this document for custom fabrication, as it may not show all parts or structural components. Custom fabrication or an attempt to copy this bracket design could result in loss of the towed vehicle.
- 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 mounts and brackets for cracks or other signs of fatigue every 3,000 miles. Failure to do so could result in loss of the towed vehicle.
- 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.
- If running changes were made by the vehicle manufacturer after this bracket 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 that the bracket is securely fastened to the vehicle and fitted with the correct hardware to account for these changes. Failure to securely fasten the bracket 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 bracket. Do not install the bracket if any structural frame damage is found. Failure to repair the damage could result in the loss of the towed vehicle.
- Some motorhome chassis have such a tight turning radius that you can damage your motorhome, towed vehicle, tow bar or bracket 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 bracket is designed for use with ROADMASTER tow bars and ROADMASTER adaptors only. Using this bracket with other brands, without an approved ROADMASTER adaptor, may result in non-warranty damage or injury.
- Upon final installation, the installer must inspect the bracket to ensure adequate clearance, particularly around hoses, air conditioner lines, radiators, etc., or non-warranty damage to the towed vehicle will result.
- This bracket is only warranted for the original installation. Installing a used bracket on another vehicle is not recommended and will void the warranty.

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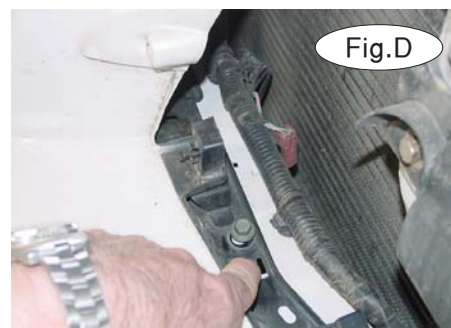


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This bracket kit is one of our XL series which is designed to be partly removable. The kit consists of the main receiver brace, two front arm braces, a lower brace, a mounting plate and a hardware pack. The main receiver brace mounts behind the front 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 grille (Fig.B) then depress the lower keepers and pull out to remove the grille (Fig.C).

2. Find two screws in the top of the fascia between the headlights and remove (10mm heads)(Fig.D).

3. Remove a (10mm head) bolt at the fascia fender junction on each side (Fig.E).



4. Remove three plastic fasteners on each side, two in each fenderwell (Fig.F) and one on the bottom of the fascia (Fig.G).



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Fig.H



Fig.I

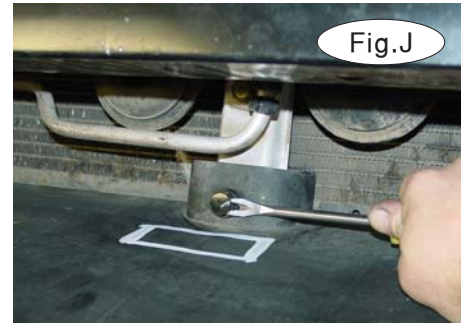


Fig.J

5. Remove one more plastic fastener on each side (Fig.H), then pull forward to remove the fascia (Fig.I).
6. Remove the plastic fastener holding the lower radiator air duct (Fig.J) then pull forward to disengage side locks located on each side (Fig.K). Note the air duct is marked where it will have to be cut for reinstallation (Fig.K).

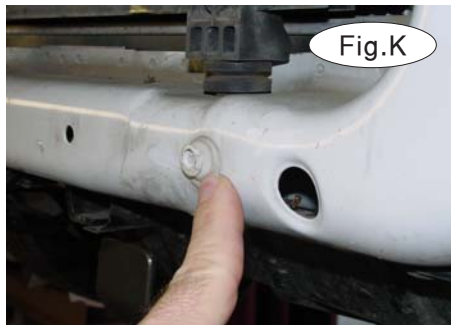


Fig.K

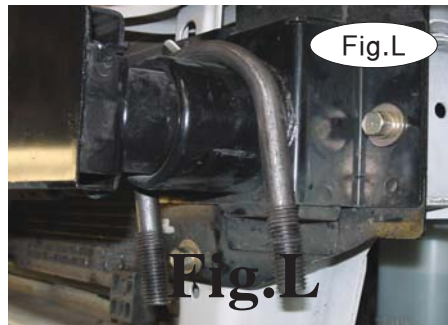


Fig.L

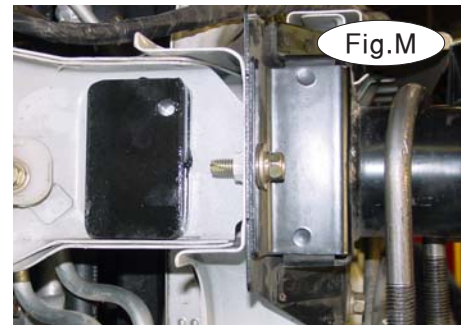


Fig.M

7. Locate the 2 3/4" x 4 3/4" U bolts and put over the bumper core supports on each side as shown (Fig.L).
8. Put spacer blocks against the out side of each frame as shown (Fig.M).

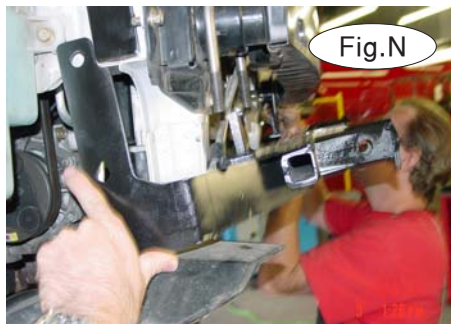


Fig.N

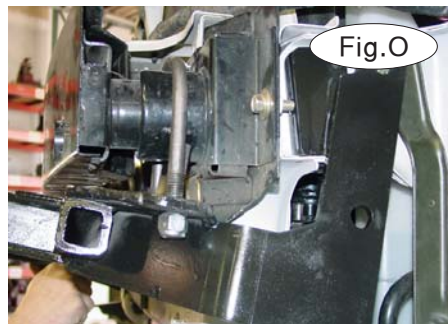


Fig.O

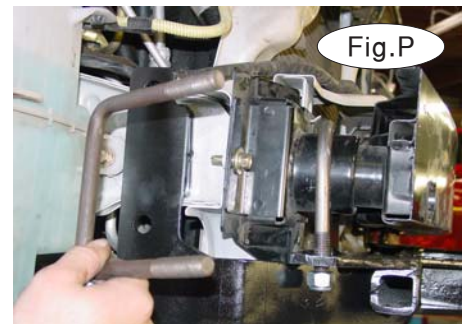


Fig.P

9. Hold the main receiver brace to the bottom of the bumper core and the side of the frame over the spacer blocks (Fig.N).
10. Bolt the brace to the U bolts with 1/2" lock nuts on each side (Fig.O).
11. Now install the back 4" x 4" U bolt around the frame on both sides and with 1/2" Ny-lock nuts (Fig.P).
12. Bolt through the side of the brace on each side into the threaded spacer plates with 3/8" x 1" bolts .



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Fig.Q

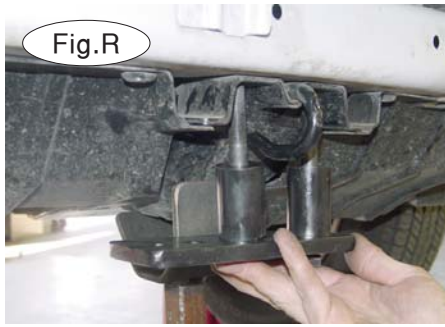


Fig.R



Fig.S

13. Remove two bolts in the middle of the sub frame (17mm head) (Fig.Q) and bolt through the lower mounting plate and two 1 3/4" spacers with two 12mm x 1.5 x 110mm bolts and lock washers (19mm heads)(Fig.R).

14. Cut the radiator air duct as shown in step 6, (Fig.K) then reinstall.

15. Install the lower center brace on the lower mounting plate with two 1/2" x 1 1/4" bolts, cut flat washers, lock washers and nuts (Fig.S,T). Bolt through the other end of the center brace and the main receiver brace with two more 1/2" x 1 1/4" bolts, lock washers and nuts (Fig.U,V).

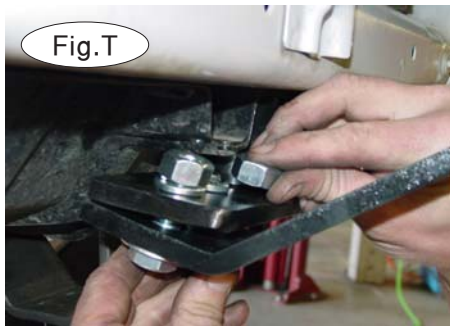


Fig.T

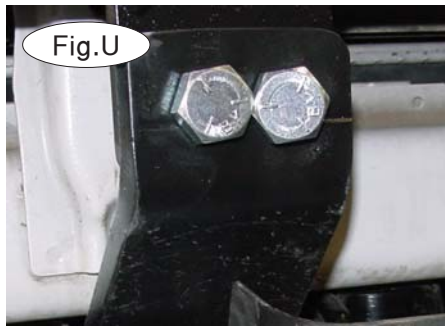


Fig.U

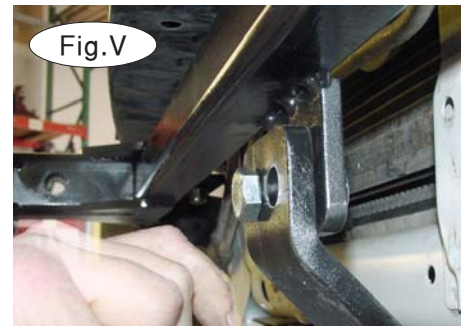


Fig.V

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

17. Reinstall the fascia reversing steps 1 through 5.

18. Insert the front braces into the receiver brace and pin with 5/8" draw pins and 3/16" spring pins (Fig.W).

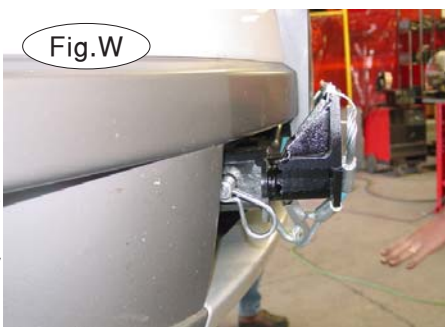


Fig.W

19. Connect the provided 8" safety cables to the receiver brace with the included cable connectors and the other end to the tow vehicle's safety cables (Fig.X).



Fig.X

## 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.						