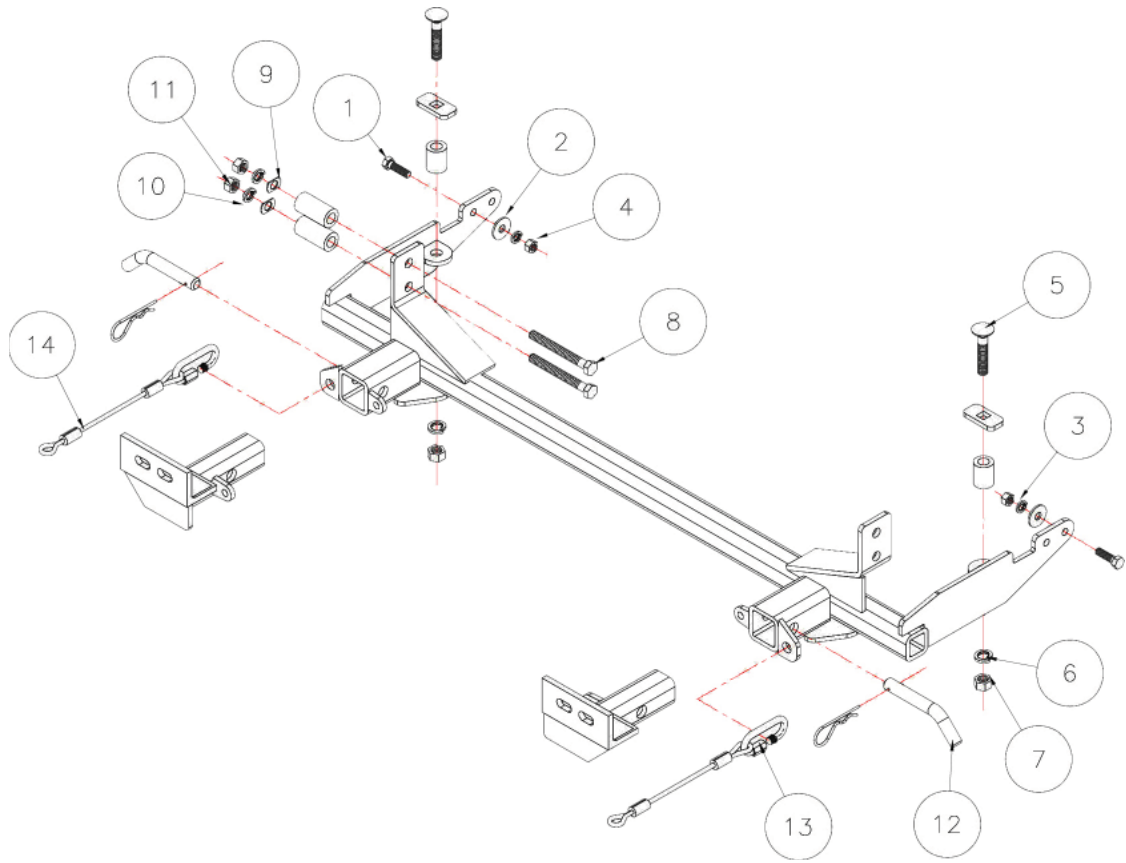




MOUNTING BRACKET KIT INSTALLATION INSTRUCTIONS

KIT# 1169-1

03/14/12



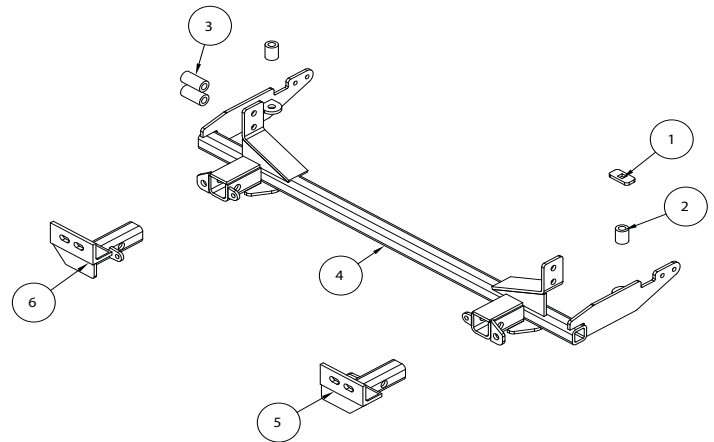
Item	Qty.	Length	Width	Hardware	Part No.
1	2	1 1/4"	3/8"	BOLT	350056-00
2	2		3/8"	FLAT WASHER	350304-50
3	2		3/8"	LOCK WASHER	350305-00
4	2		3/8"	NUT	350254-00
5	2	2 1/2"	1/2"	CARRIAGE BOLT	350369-00
6	2		1/2"	LOCK WASHER	350309-00
7	2		1/2"	NUT	350258-00
8	2	3 1/2"	7/16"	BOLT	350082-00
9	2		1/2"	CLIPPED FLAT WASHER	A-001789
10	2		7/16"	LOCK WASHER	350307-00
11	2		7/16"	NUT	350256-20
12	2			DRAW PIN / SPRING PIN	357035-00
13	2			CABLE CONNECTORS	200008-00
14	2	8"		SAFETY CABLES	500646-08



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Item	Qty	Part No.	Assembly
1	2	A-000040	BACKING PLATE
2	2	A-001055	PIPE SPACER
3	2	A-001056	PIPE SPACER
4	1	C-000625	MAIN RECEIVER BRACE WELDMENT
5	1	C-000626	DRIVER SIDE ARM WELDMENT
6	1	C-000627	PASSENGER SIDE ARM WELDMENT

IMPORTANT: All brackets *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

ROADMASTER Limited Warranty, including One-Year Conditional Warranty Text and Product Registration Card, in Carton.

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.
- **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.
- Roadmaster manufactures many styles of brackets. **If your bracket 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, resulting in non-warranty damage or personal injury.
- 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.**
- **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.
- 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.



MOUNTING BRACKET KIT INSTALLATION INSTRUCTIONS

KIT# 1169-1

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This bracket kit is one of our XL series, which is designed to be partly removable (Fig.A). 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. 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 by removing the four 10mm (head) fasteners in the top of the front bumper fascia (Fig.B).

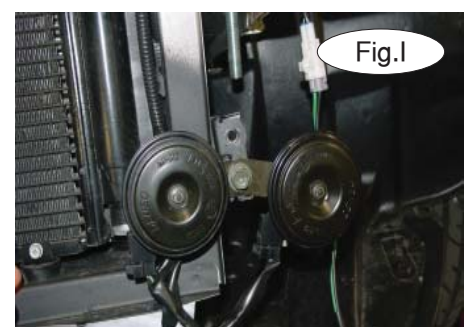
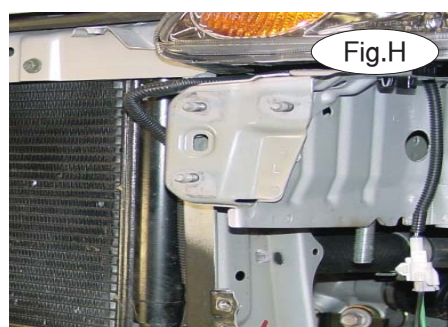
2. Remove a 10mm (head) bolt at the fascia and fenderwell junction on each side (Fig.C).

3. Remove the lower center splash panel underneath the fascia (thirteen 10mm head fasteners and three plastic fasteners) (Fig.D,E).



4. Pull forward on the fascia, disconnect the turn signal and marker lights (Fig.F), then continue to pull forward and remove (Fig.G). Set the fascia aside for now.

5. Remove the bumper core (three 14mm nuts per side) (Fig.H) and set aside.



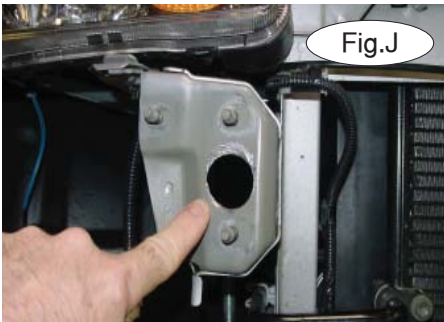
6. Move to the drivers side of the frame and remove the top horn. Bolt both horns into the bottom mount as shown in Figure I.



MOUNTING BRACKET KIT INSTALLATION INSTRUCTIONS

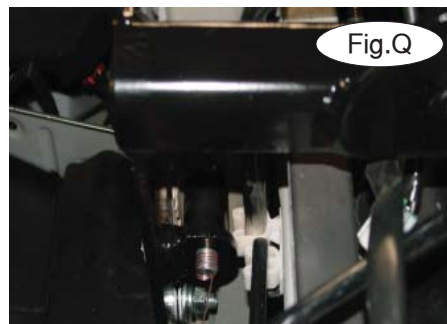
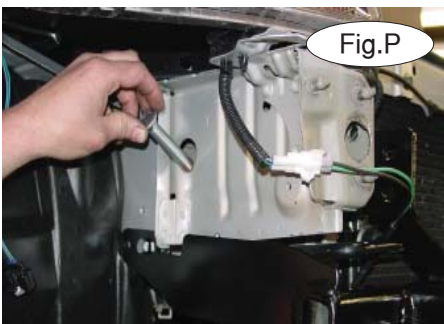
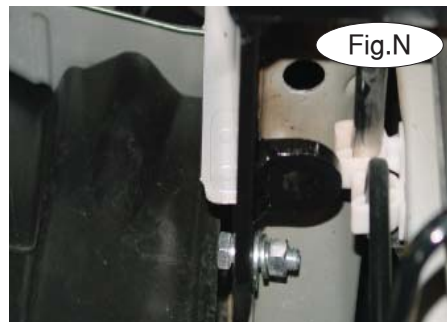
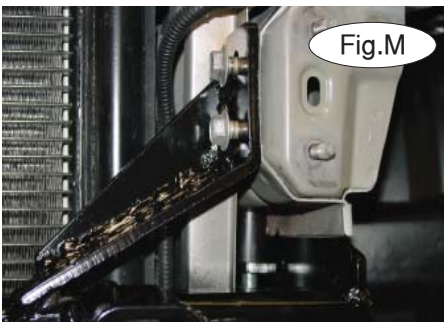
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7. Using a 1¼" hole saw, enlarge the front frame hole (Fig.J) on the passenger side, then make an access hole on the side of each frame as shown in Figure K.

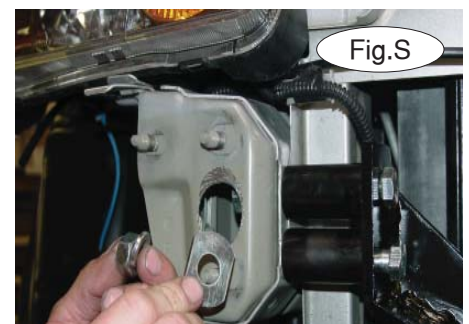
8. Hold the main receiver brace under the frame (Fig.L) and bolt through the driver's side front mounting holes with two stock 14mm (head) shoulder bolts (Fig.M) then bolt through the rear mounting holes on each side using 3/8" x 1¼" bolts flat washers and lock washers (Fig.M,N). *Note:* two mounting holes are at the back of the main brace on each side; use the front hole on the passenger side and the rear hole on the driver's side.



9. Find two 1¼" pipe spacers and position them between the frame and the back mounting tab under the existing frame hole on each side (Fig.O). Now, fishwire a ½" x 2½" carriage bolt and ¼" x 1" x 2" backing plate into the frame on each side through the access holes you created in a previous step (Fig.P). Pull the bolts through the bottom frame holes, the spacers and the brace (Fig.Q). Finish with lock washers and nuts (Fig.R). Tighten these bolts to align and position the receiver brace.

10. Tighten the remaining mounting bolts and align the main receiver brace.

11. Using the brace as a template, drill two 15/32" holes through the frame then position two 2" pipe spacers between the frame and brace (Fig.S).





MOUNTING BRACKET KIT INSTALLATION INSTRUCTIONS

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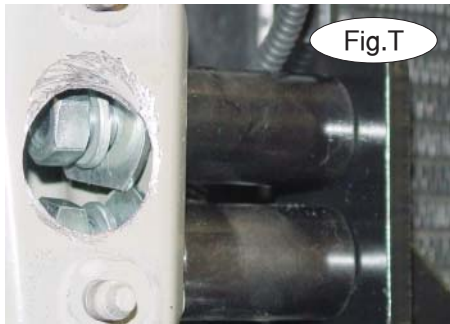


Fig.T



Fig.U



Fig.V

12. Bolt through the receiver brace, 2" pipe spacers and the frame with 7/16" x 3 1/2" bolts, 1/2" clipped flat washers, 7/16" lock washers and 7/16" nuts (Fig.T).

13. Torque all mounting bolts to the torque specifications found at the the end of these instructions.

14. Replace the bumper core removed in step 5.

15. Hold the fascia in position and mark the grille where the receiver will have to protrude and trim to fit (Fig.V).

16. Trim the lower splash guard to fit around the brace (Fig.U).

17. Reinstall the fascia reversing steps 1 through 4.

18. Install the front braces into the receivers and secure them in place with 5/8" draw pins and 3/16" spring pins (Fig.V).

19. Attach the safety cables to the front of the receivers with the supplied cable connectors and to the tow vehicle's safety cables (Fig.W).



Fig.W

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.