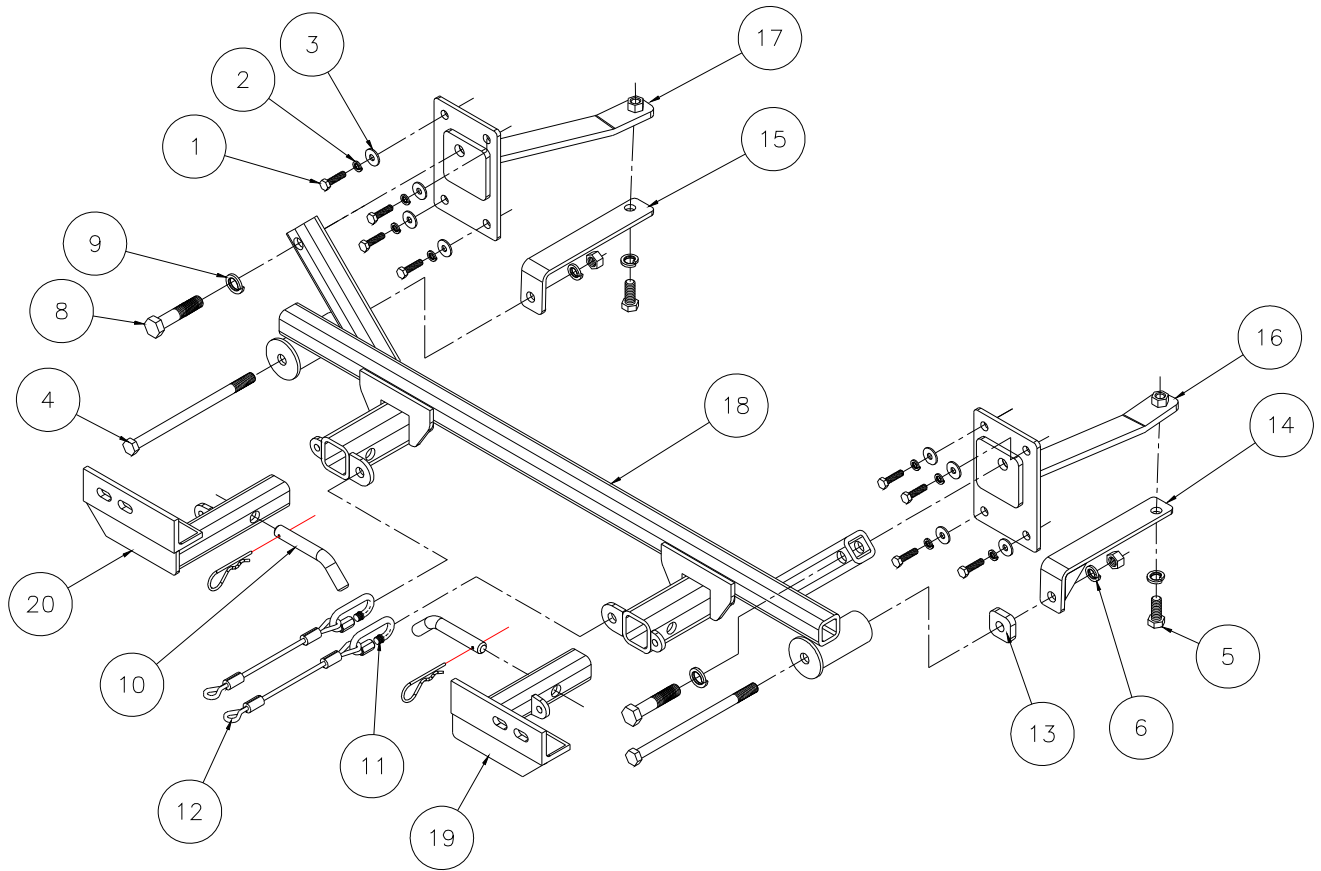




# MOUNTING BRACKET KIT INSTALLATION INSTRUCTIONS

**KIT# 918-1**

01/27/11



Item	Qty	Length	Width	Name	Part No.
1	8	30mm	8mm	M8 x 1.25 x 30 mm	356001-00
2	8		8mm	LOCK WASHER	355705-00
3	8		8mm	FENDER WASHER	355702-00
4	2	9 1/2"	1/2"	1/2" x 9 1/2" BOLT	350118-00
5	2	1 1/2"	1/2"	1/2" x 1 1/2" BOLT	350095-00
6	4		1/2"	LOCK WASHER	350309-00
7	2		1/2"	NUT	350258-00
8	2	3"	5/8"	5/8" x 3" BOLT	350154-00
9	2		5/8"	LOCK WASHER	350313-00
10	2		5/8"	DRAW PIN, SPRING PIN	357035-00
11	2			QUICK LINK	200008-00
12	2	10"		SAFETY CABLE	500646-10
13	1	1 1/2"	1 1/2"	3/8" SPACER PLATE	A-001645
14	1			DRIVER SIDE REAR MOUNTING BRACKET	C-000995
15	1			PASSENGER SIDE REAR MOUNTING BRACKET	C-000994
16	1			DRIVER SIDE REAR PLATE	C-001550
17	1			PASSENGER SIDE REAR PLATE	C-001551
18	1			MAIN RECEIVER	C-001549
19	1			DRIVER SIDE ARM	C-001552
20	1			PASSENGER SIDE ARM	C-001553



# MOUNTING BRACKET KIT INSTALLATION INSTRUCTIONS

**KIT# 918-1**

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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 kit consists of a passenger and driver side main receiver brace support, two main receiver braces, two rear braces, two removable front bracket arms and a hardware pack. The main receiver brace supports mount to the frame rails, the main receiver braces mount to the main receiver brace supports, the rear braces mount to the frame and the removable front brackets install in the main receiver braces. 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.



Fig.A



Fig.B

**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.

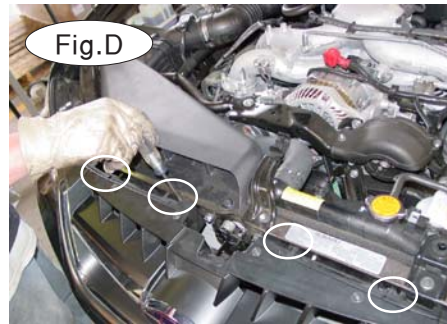
- Installation of most mounting brackets requires moderate mechanical aptitude and skills. We strongly recommend professional installation by an experienced installer.
- The installer must read the instructions and use all bolts and parts supplied. Failure to do so could result in loss of the towed vehicle.
- Use Loctite® Red on all bolts used for mounting this bracket.
- 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.



# MOUNTING BRACKET KIT INSTALLATION INSTRUCTIONS

**KIT# 918-1**

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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 plastic fastener attaching the top of the fascia to the core support (Fig.C).

2. Next, release the four plastic clips attaching the top of the fascia to the radiator support (Fig.D). Push down on the top of the plastic clips to release them.

3. Remove seven plastic fasteners along the bottom of the fascia attaching the bottom of the fascia to the splash shield (Fig.E).



4. Remove one plastic fastener located next to the tow hook, attaching the fender liner to the bottom of the core support (Fig.F). Repeat for the other side.

5. Now, pull back the fender liner and remove one pop fastener attaching the corner of the fascia to the fender (Fig.G). Repeat for the other side.

6. Unplug the fog lights (if your vehicle is so equipped).

7. Remove the fascia by pulling down, out to the side and forward (Fig.H).

8. Remove the foam shock absorption pad (Fig.I).



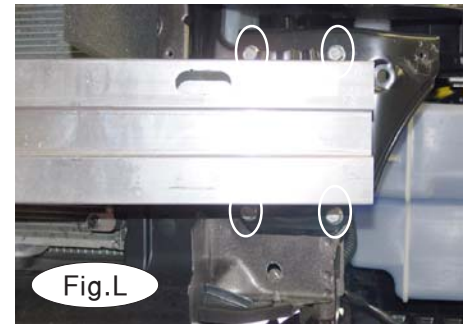
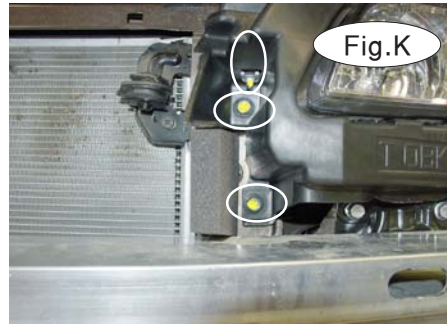
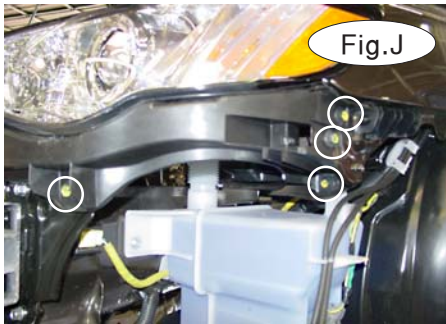




# MOUNTING BRACKET KIT INSTALLATION INSTRUCTIONS

**KIT# 918-1**

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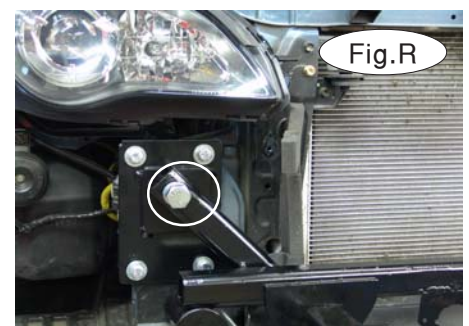
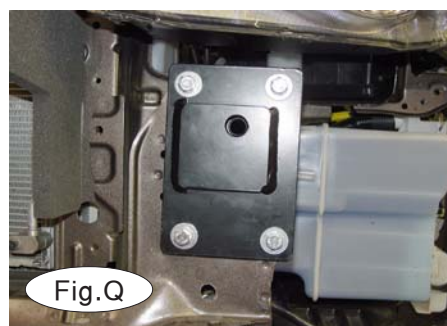
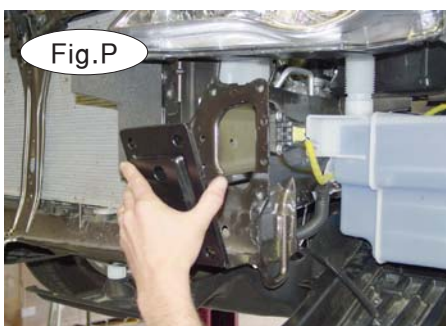


9. Now, remove seven 10mm (head) bolts attaching the headlight support to the frame (Fig.J, K). Then, pull out and forward on the side of the support to remove it. Repeat for the other side.

10. Remove the bumper core by removing four 12mm (head) bolts per side (Fig.L). *Note:* the bumper core will not be reinstalled. Retain the bumper core and attachment hardware in case the bracket is ever removed.



11. Remove the lower air deflector by removing four 10mm (head) bolts and four plastic fasteners. Two of the plastic fasteners (one per side), are located underneath the air deflector (Fig.N) and two are located (one per side), on the top of the air deflector (Fig.O). The four bolts are located underneath the air deflector (Fig.M).



12. Beginning with the driver's side, insert the main receiver brace support into the end of the frame rail (Fig.P) and bolt into place using the four 8mm x 1.25 x 30mm bolts, fender washers and lock washers (Fig.Q). Tighten to the torque specifications listed at the end of these instructions.

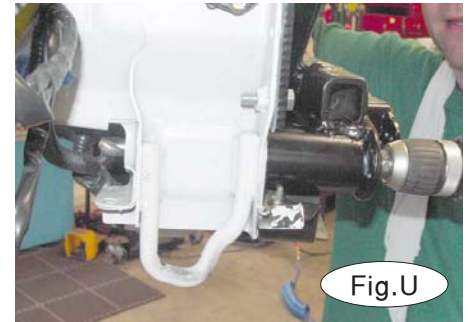
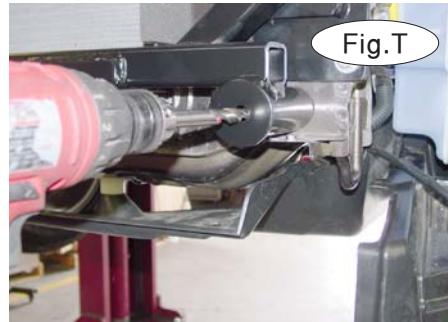
13. Using a 5/8" x 3" bolt on each side, bolt the main receiver brace to the main receiver brace supports (Fig.R). Tighten to the bolt torque requirements found at the end of these instructions.



# MOUNTING BRACKET KIT INSTALLATION INSTRUCTIONS

**KIT# 918-1**

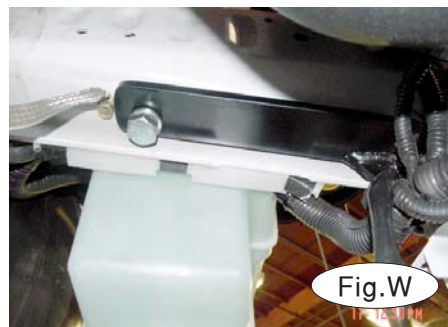
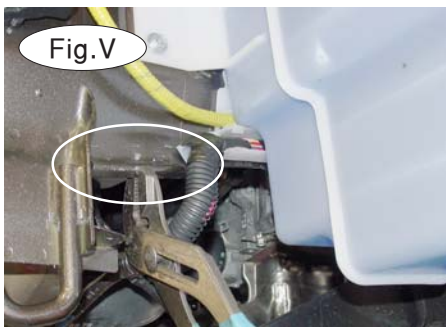
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14. Remount the head light supports you removed in step 9.

15. Locate the wiring harness behind the front frame (Fig.S) and pull it loose. Then, on the driver side, using the main receiver brace as a template, drill a  $\frac{1}{2}$ " hole through the front and back of the frame (Fig.T). On the passenger side using a  $\frac{1}{2}$ " drill and drill out the pin in the tow hook mounting point (Fig.U). *Note:* this will require a sharp drill bit.

16. On the driver's side outer edge of the frame rail, bend down a steel tab (Fig.V) to accommodate the main receiver brace.



17. Bolt the rear brace in place under the frame using the  $\frac{1}{2}$ " x  $1\frac{1}{2}$ " bolt through the existing frame hole and into the rear main receiver brace threaded mounting hole (Fig.W). Line the front of the braces up with the holes you drilled in step 15. Repeat for the other side.

18. Bolt through the front of the main receiver brace, the  $\frac{3}{8}$ " spacer, the frame and the rear brace with a  $\frac{1}{2}$ " x  $9\frac{1}{2}$ " bolt and lock washer (Fig.X). Repeat for the other side. *Note:* only the driver's side uses a  $\frac{3}{8}$ " spacer.

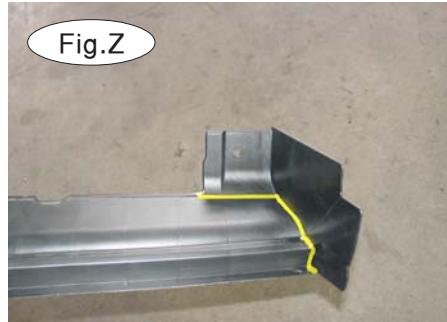
19. Tighten all mounting bolts to the bolt torque requirements found at the end of these instructions.



# MOUNTING BRACKET KIT INSTALLATION INSTRUCTIONS

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20. The lower air deflector must to be trimmed on both sides (Fig.Y). Refer to the yellow marker line for correct trimming (Fig.Z)
21. 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 (Fig.AA).
22. Attach the 10" safety cables with the cable connectors (Q-Links) to the front of the receiver braces (Fig.AA).
23. Attach the ends of the safety cables to the tow vehicle's safety cables and tow bar.
24. Install the tow bar to the mounting bracket according to the manufacturer's instructions.

## 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.