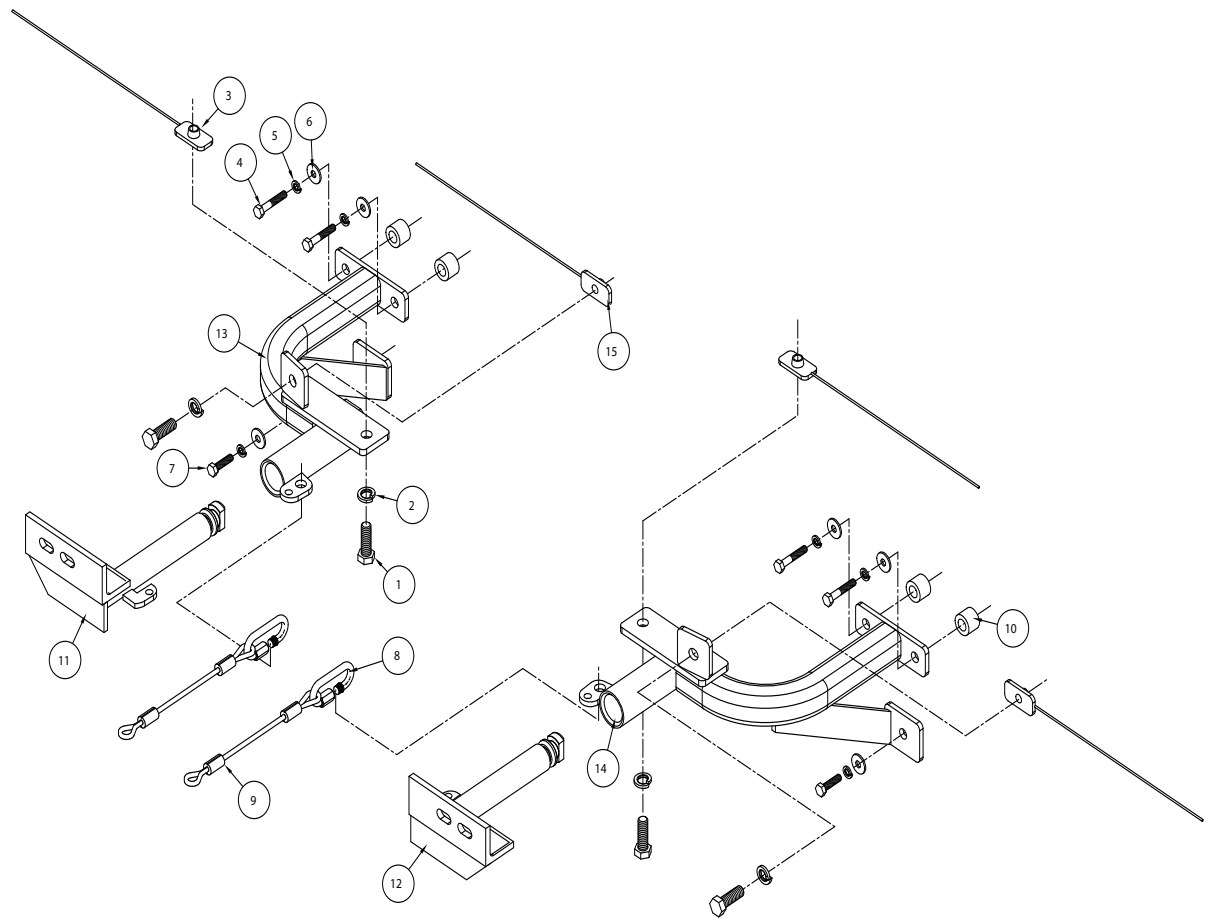




MOUNTING BRACKET KIT KIT# 521019-1

INSTALLATION INSTRUCTIONS



ITEM	QTY	NAME	MATERIAL
1	4	1/2" x 1 1/2" BOLT	350095-00
2	4	1/2" LOCKWASHER	350309-00
3	4	1/2" NUT	350258-00
4	4	8mm X 1.25 X 45 mm BOLT	356004-00
5	6	8mm LOCK WASHER	355705-00
6	6	8mm FENDER WASHER	355702-00
7	2	8mm X 1.25 X 30 mm BOLT	356001-00
8	2	QUICK LINK	200008-00
9	2	SAFETY CABLE	650646-08
10	4	1" RND 0.219 WALL X 3/4" TUBE	A-000558
11	1	PASSENGER SIDE ARM	C-001480
12	1	DRIVER SIDE ARM	C-001479
13	1	PASSENGER SIDE RECEIVER	C-001482
14	1	DRIVER SIDE RECEIVER	C-001481
15	4	1" x 2" THREADED BACKING PLATE W/ HANDLE	C-002439



MOUNTING BRACKET KIT INSTALLATION INSTRUCTIONS

KIT# 521019-1

This is one of our EZ2 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, two removable front bracket arms and a hardware pack. The main receiver braces mount to the bumper and the top and bottom of the frame rail. 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.



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

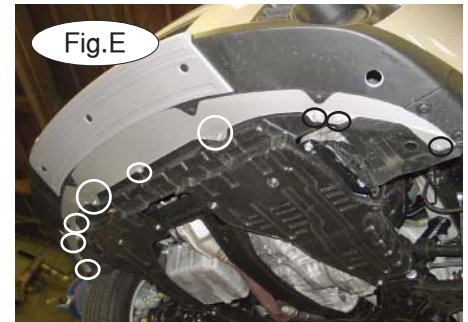
Failure to follow these instructions can result in property damage, personal injury or even death.

- **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

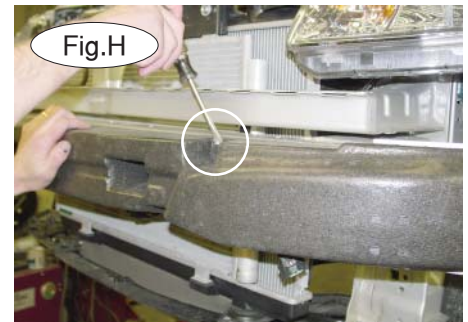
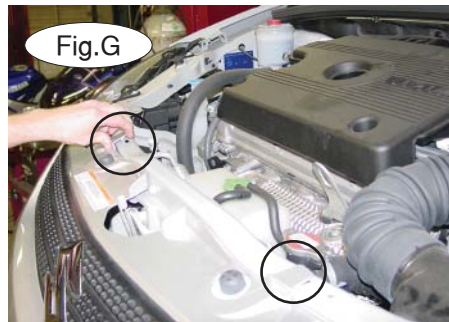
KIT# 521019-1



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 four 10mm screws attaching the top of the fascia to the core support (Fig.C).

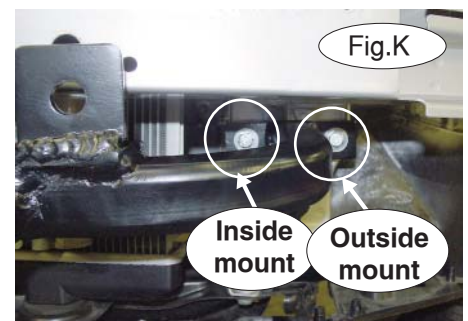
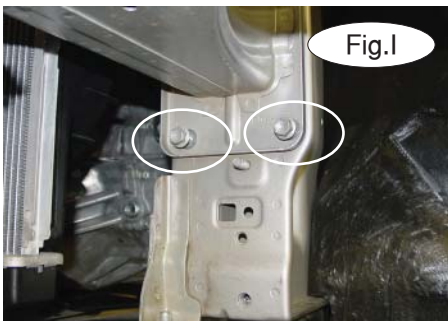
2. Next, remove one Phillips head screw and one plastic fastener attaching the fascia to the corner of the fender and the fender liner. Repeat for the other side (Fig.D).

3. Remove seven Phillips head screws and two 10mm bolts attaching the fascia to the lower splash panel (Fig.E).



4. Now, pull out and forward on both corners of the fascia (Fig.F). Then, pull up on the lock tabs holding the top of the fascia to the core support to remove the fascia (Fig.G).

5. Temporarily remove the shock absorption pad from the bumper core by removing two plastic fasteners, one on each side (Fig.H).



6. Next, remove four 12mm head bolts attaching the bumper core to the frame rail, two per side (Fig.I)

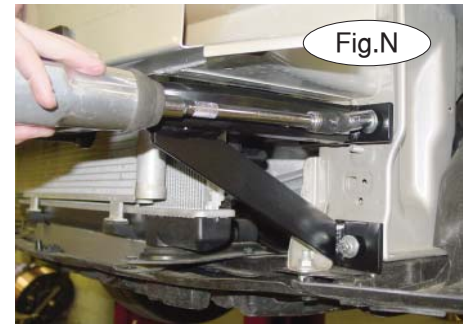
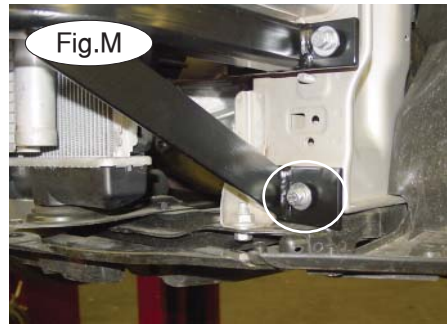
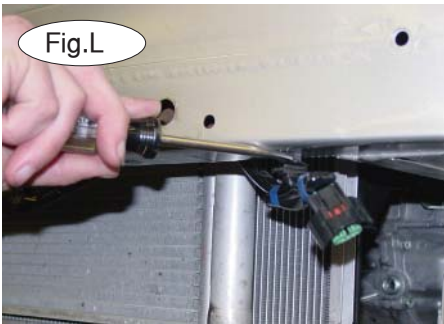
7. Starting with the driver side, place the 1" x $\frac{3}{4}$ " spacer between the main receiver brace and the bumper core, at the outermost mounting point – Fig.K Bolt into place using a 8mm x 1.25 x 45mm bolt, fender washer and lock washer. You will be bolting into the weld nuts that you removed the bumper core bolts from in step 6.

8. Repeat step 7 for the inside mounting point (Fig.K).



MOUNTING BRACKET KIT INSTALLATION INSTRUCTIONS

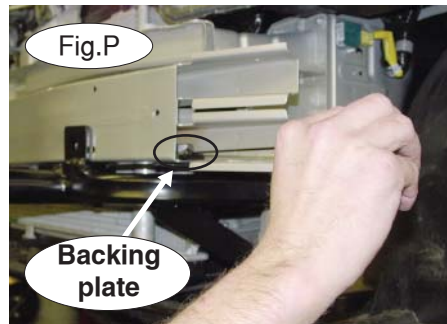
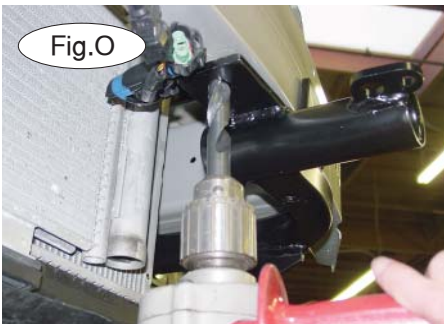
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9. Now, remove the plastic tab attaching the wiring harness to the bumper core, located on the driver side (Fig.L).

10. Bolt through the lower mount in the main receiver brace using the 8mm x 1.5 x 30mm bolt, fender washer and lock washer (Fig.M). *Note:* you will be bolting into the existing weld nut in the frame rail.

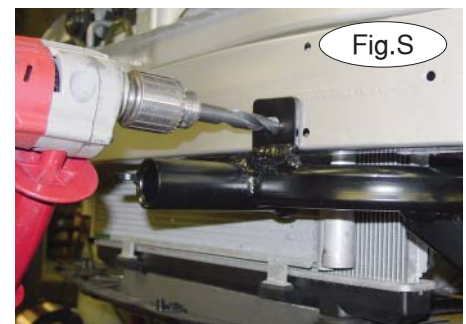
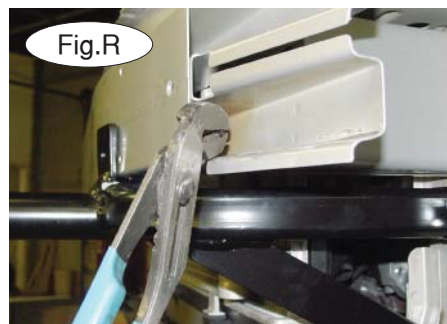
11. Holding the main receiver brace in place, tighten all three bolts to the torque specifications listed at the end of these instructions (Fig.N).



12. Using the main receiver brace as a template, drill through the bottom of the bumper core (Fig.O).

13. Now, insert the 1" x 2" nutted backing plate into the lower opening in the bumper core (Fig.P). Bolt through the main receiver brace, bumper core and into the backing plate using a 1/2" x 1 1/2" bolt and lock washer (Fig.Q). Tighten the bolt to the torque specification listed at the end of these instruction. Using a pair of pliers break off the wire attached to the backing plate (Fig.R).

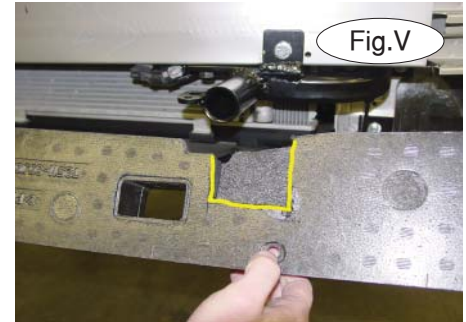
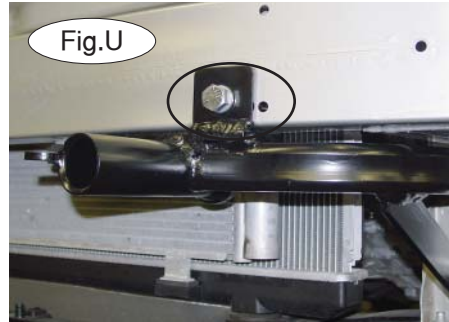
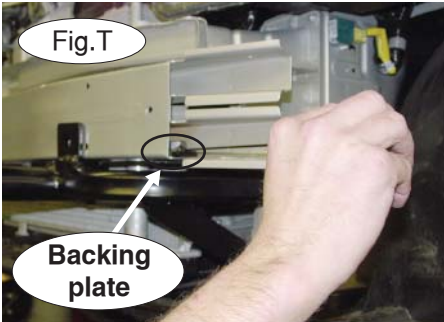
14. Using the upper front mount in the main receiver brace as a template, drill through the face of the bumper core (Fig.S).





MOUNTING BRACKET KIT INSTALLATION INSTRUCTIONS

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15. Insert the 1" x 2" nitted backing plate into the lower opening in the bumper core (Fig.T). Bolt into place using a 1/2" x 1 1/2" bolt and lock washer (Fig.U). Now, tighten to the torque specification listed at the end of these instructions.
16. Repeat steps 7 through 15 for the passenger side of the vehicle.
17. The shock absorption pad will need to be trimmed before you reinstall it. Use the yellow marker line in Figure V as a guide for correct trimming.
18. Reinstall the fascia, reversing steps 1 through 3.
19. Insert the tubular front braces into the main receiver brace, and twist 90 degrees to lock (Fig.W).
Note: remove the tubular front braces when not towing, unless a cross bar or tow bar is in place.
- Attach the safety cables with the cable connectors (Q-links) to the front of the tubular front braces (Fig.W). Attach the ends of the safety cables to the tow vehicle's safety cables and tow bar.
20. 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.