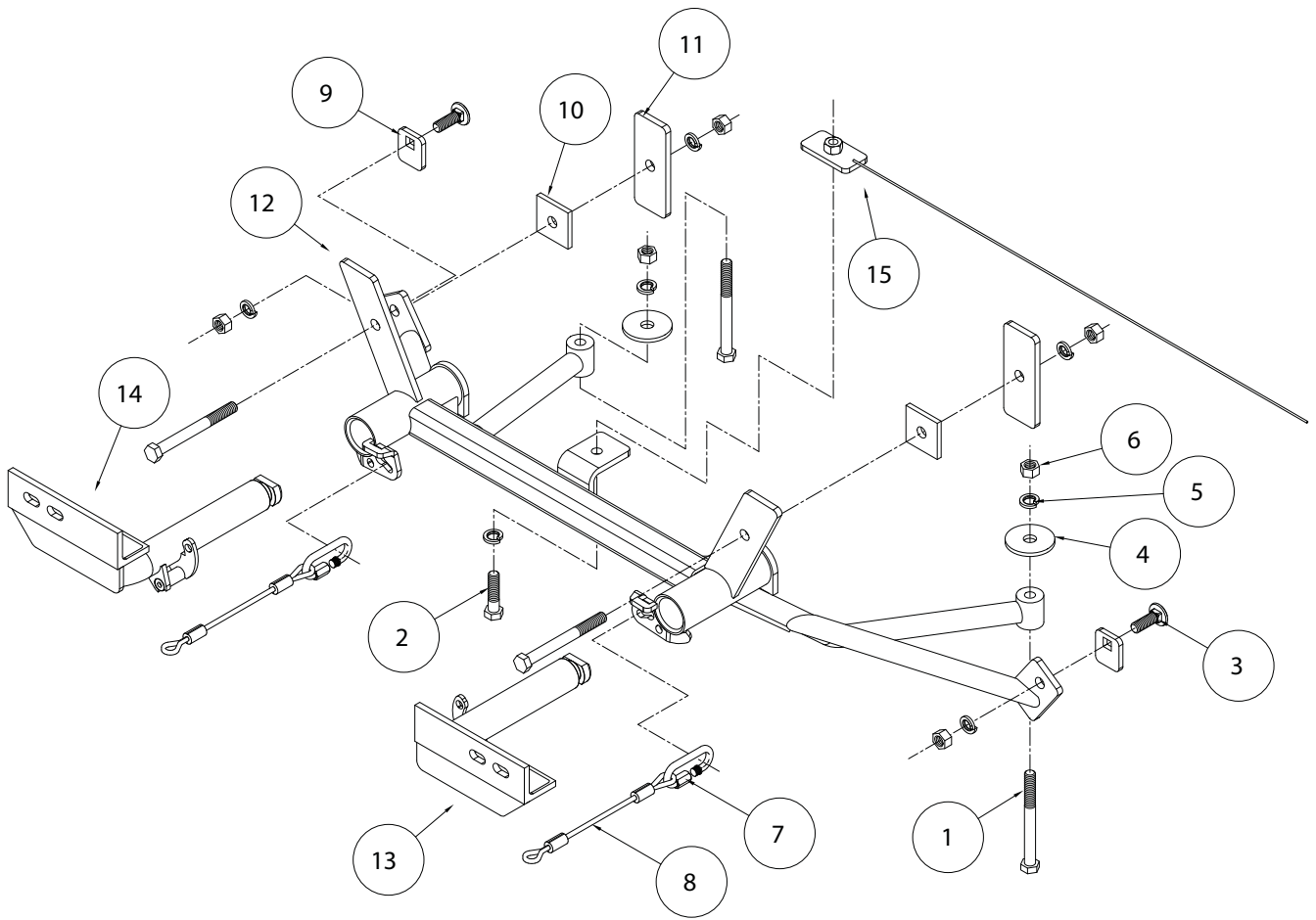




# MOUNTING BRACKET KIT INSTALLATION INSTRUCTIONS

**KIT# 524419-1**

04/05/10



ITEM	QTY	NAME	MATERIAL
1.....	4.....	1/2" x 5" BOLT.....	350107-00
2.....	1.....	1/2" x 2" BOLT.....	350097-00
3.....	2.....	1/2" x 1 1/2" CARRIAGE BOLT.....	350362-00
4.....	2.....	1/2" PLATE WASHER.....	A-003086
5.....	7.....	1/2" LOCK WASHER.....	350309-00
6.....	6.....	1/2" HEX NUT.....	350258-00
7.....	2.....	QUICK LINK.....	200008-00
8.....	2.....	SAFETY CABLE 8".....	650646-08
9.....	2.....	1/4" x 1 1/2" x 1 3/4" SQ. HOLE BACKING PLATE.....	A-002885
10.....	2.....	1/4" x 2" x 2" ROUND HOLE BACKING PLATE.....	A-001066
11.....	2.....	5/16" x 2" x 5" ROUND HOLE BACKING PLATE.....	A-002888
12.....	1.....	MAIN RECEIVER.....	C-001838
13.....	1.....	DRIVER SIDE ARM.....	C-001839
14.....	1.....	PASSENGER SIDE ARM.....	C-001840
15.....	1.....	1/4" x 1 1/2" x 3" BACKING PLATE W/ ROD.....	C-001841



# MOUNTING BRACKET KIT INSTALLATION INSTRUCTIONS

**KIT# 524419-1**

04/05/10

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 consists of a main receiver brace, two removable front braces, and a hardware pack.

The main receiver brace mounts to the frame rails and the bumper core. The removable front braces install in the main receiver brace.

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.

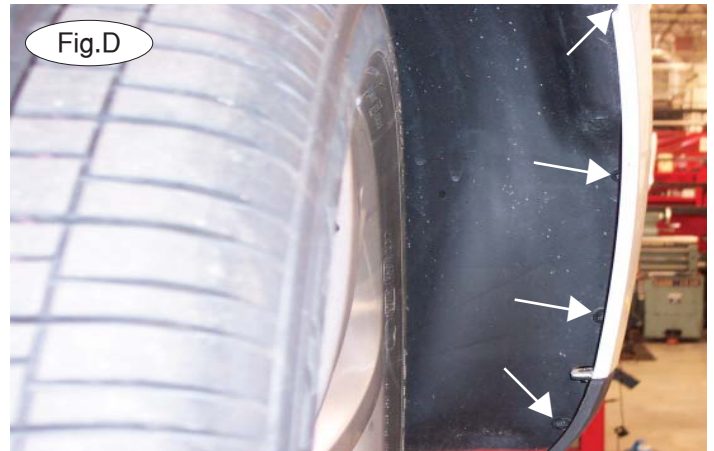
- **Installation of most mounting brackets requires moderate mechanical aptitude and skills.** We strongly recommend professional installation by an experienced installer.
- **The installer must read the instructions and use all bolts and parts supplied.** Failure to do so could result in loss of the 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# 524419-1**

04/05/10



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. Remove four 10mm (head) bolts and two plastic fasteners attaching the top of the fascia to the core support (Fig.C).



2. Remove four Phillips screws attaching the fender liner to the fascia (Fig.D – passenger side).
3. Remove five 8mm (head) screws attaching the front of the center splash shield to the bottom of the fascia (Fig.E).
4. Remove seven plastic fasteners attaching the back of the center splash shield to the core support (Fig.F).
5. Unplug the fascia wiring harness directly below the driver's side fog light (Fig.G). Pull out and forward to remove the fascia (Fig.H).





# MOUNTING BRACKET KIT INSTALLATION INSTRUCTIONS

**KIT# 524419-1**

04/05/10



Fig.I



Fig.J

6. Locate the two pre-existing holes in the bumper core. Using a  $\frac{1}{2}$ " bit, drill straight through the two holes and through the back of the bumper core (Fig.I). If you have difficulty drilling through the back of the bumper core, drill a pilot hole first. *Note:* use caution and a metal plate to avoid drilling into engine components.

7. Using the two supplied  $\frac{1}{2}$ " x 5" bolts, bolt through the upper mounting points on the main receiver brace. Place a  $\frac{1}{4}$ " x  $2\frac{1}{2}$ " backing plate over each bolt (Fig.J). Mount the main receiver brace to the bumper core (Fig.K).



Fig.K

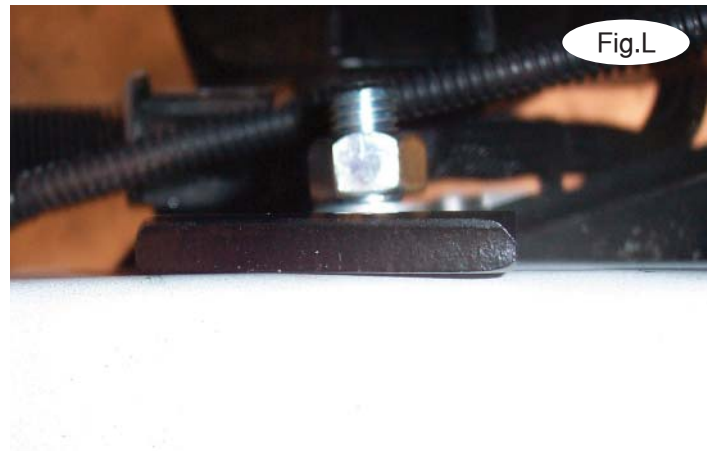


Fig.L

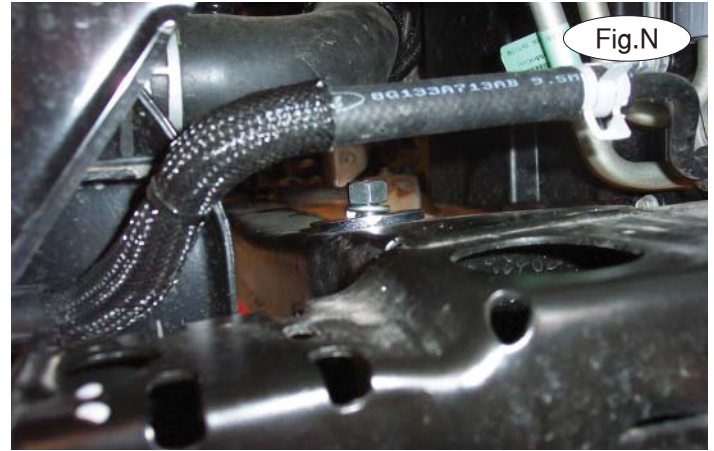
8. On each side, place a 2" x 5" backing plate over the  $\frac{1}{2}$ " bolt you installed in the previous step, and bolt into place using a  $\frac{1}{2}$ " lock washer and nut. *Note:* if the vehicle is equipped with active cruise control, the driver's side backing plate will need to be rotated slightly toward the outside of the bumper core to allow access for the main receiver brace (Fig.L).



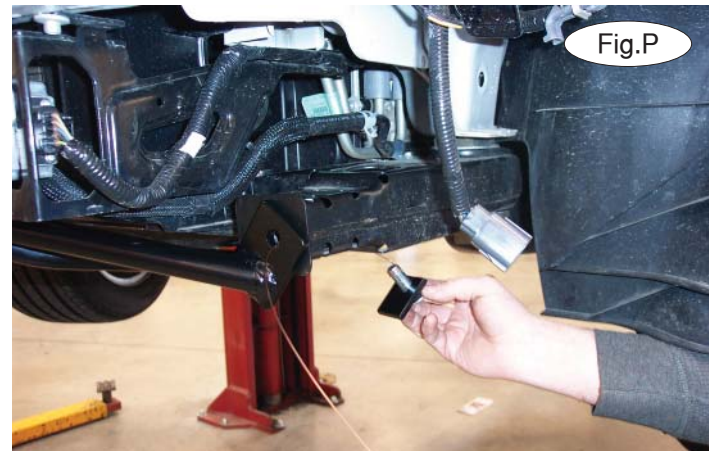
# MOUNTING BRACKET KIT INSTALLATION INSTRUCTIONS

**KIT# 524419-1**

04/05/10



9. On each side, using a  $\frac{1}{2}$ " x 5" bolt, bolt from the bottom up through the lower mounting point of the main receiver brace and the pre-existing holes in the top and bottom of the subframe (Fig.M). Place a  $\frac{1}{2}$ " plate washer on top of the bolt, and finish with a lock washer and nut (Fig.N).



10. On each side, using the hole in the main receiver brace as a template, enlarge the the pre-existing hole in the end of the frame rail (Fig.O – driver's side).

11. Place a  $\frac{1}{2}$ " x  $1\frac{1}{2}$ " carriage bolt through the  $\frac{1}{4}$ " x  $1\frac{1}{2}$ " x  $1\frac{3}{4}$ " backing plate and fishwire it through the large, pre-existing opening in the bottom of the subframe, into the subframe and into the main receiver brace (Fig.P).

12. Using the center mounting point of the main receiver brace as a template, drill a  $\frac{1}{2}$ " hole through the bottom of the bumper core (Fig.Q).





# MOUNTING BRACKET KIT INSTALLATION INSTRUCTIONS

**KIT# 524419-1**

04/05/10



Fig.R

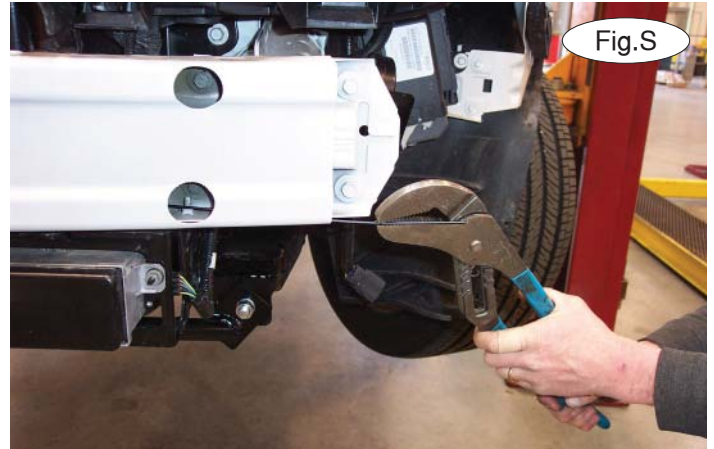


Fig.S

13. Place the  $\frac{1}{4}$ " x  $1\frac{1}{2}$ " x 3" backing plate with wire inside the frame over the center mounting point of the main receiver brace (Fig.R). Using the supplied  $\frac{1}{2}$ " x  $1\frac{1}{2}$ " bolt and  $\frac{1}{2}$ " lock washer, bolt up through the bumper core and into the backing plate with wire. Using a pair of pliers, break off the wire (Fig.S).

14. Tighten all bolts to the bolt torque requirements.

15. Trim the fascia using the yellow lines in Figure T as a reference.

16. Trim the passenger and driver's side of the fascia support using the yellow lines in Figure U (passenger side) as a reference. *Note:* if the fascia will not easily fit back on the vehicle, trim an additional amount from the fascia support.



Fig.T

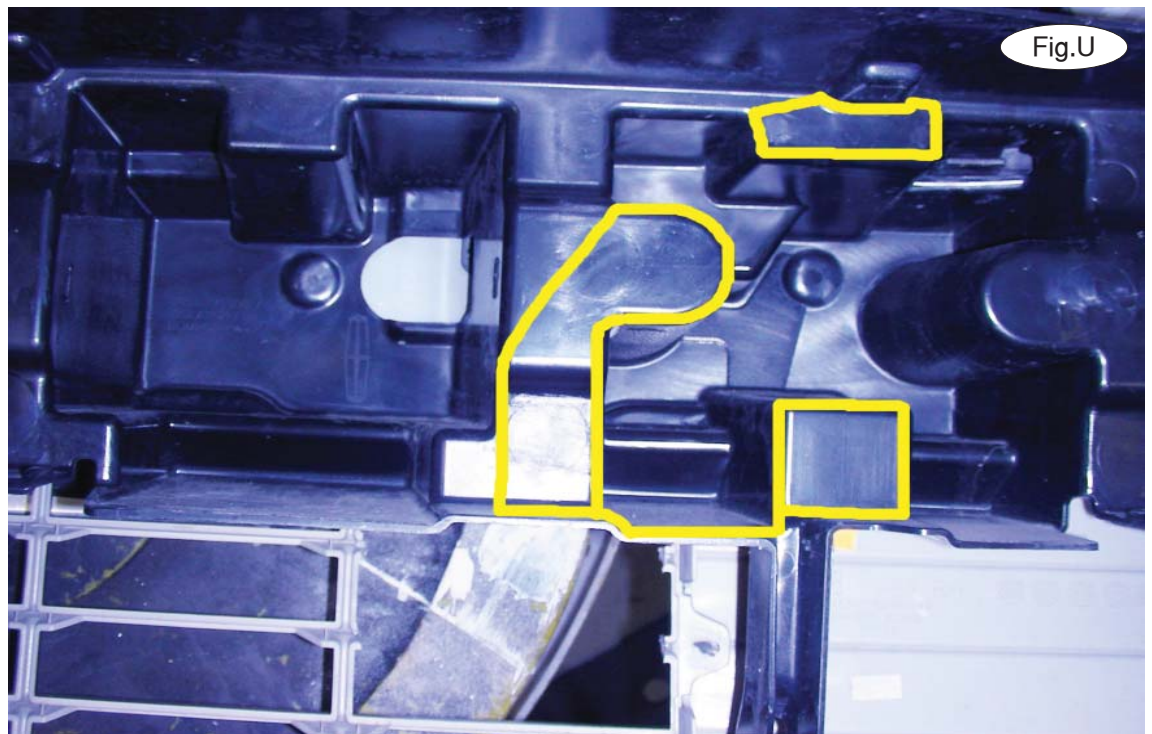


Fig.U



# MOUNTING BRACKET KIT INSTALLATION INSTRUCTIONS

**KIT# 524419-1**

04/05/10

17. Trim the center of the fascia support using the yellow lines in Figure V as a guide.
18. Reassemble the fascia, reversing steps 1 through 5.
19. Insert the removable front bracket arms into the front receiver braces, and twist each one 90 degrees to lock.
20. Attach the 8" safety cables with the cable connectors (Q-Links) to the front of the receiver braces.
21. Attach the ends of the safety cables to the tow vehicle's safety cables.
22. Install the tow bar to the mounting bracket according to the manufacturer's instructions.



Fig.V

## 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.