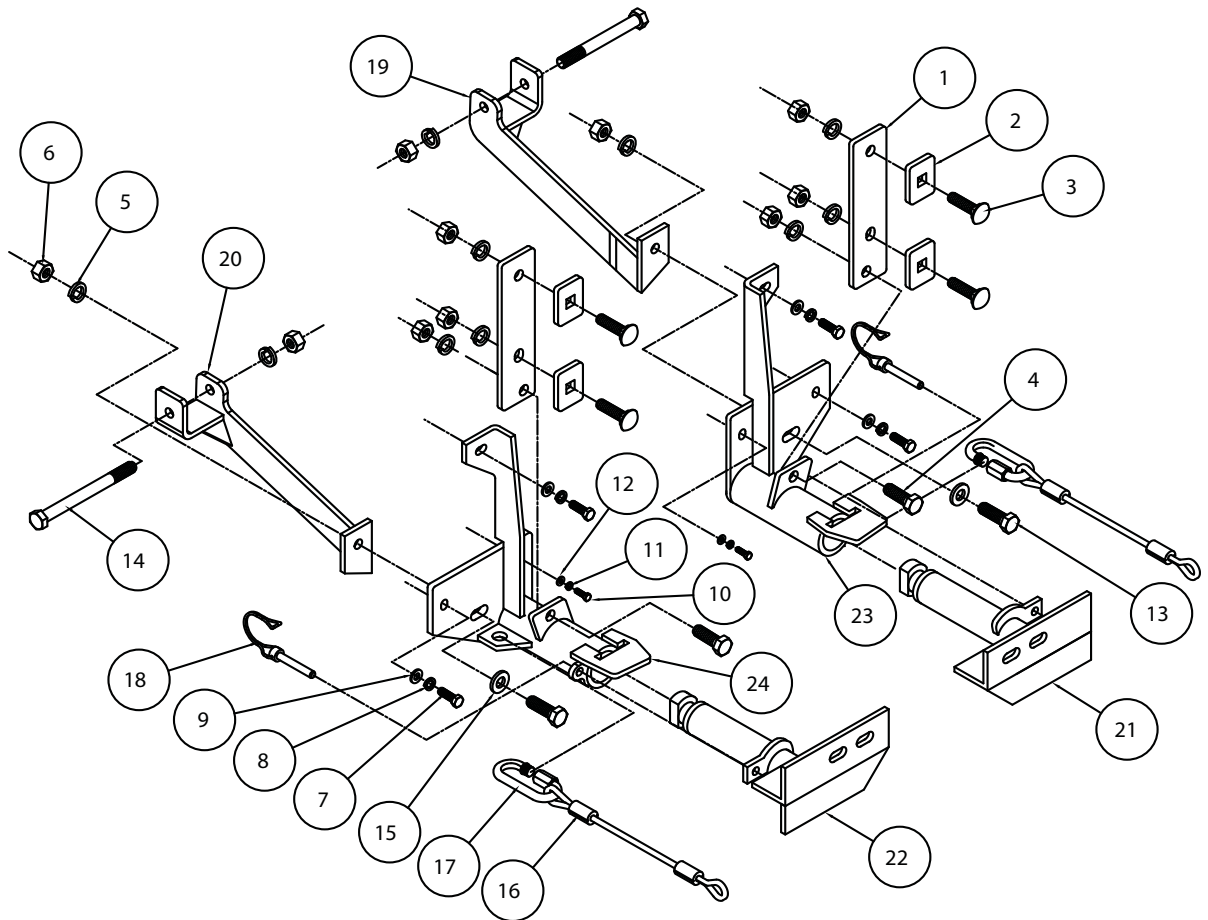




# MOUNTING BRACKET KIT KIT# 521225-1

## INSTALLATION INSTRUCTIONS



ITEM	QTY	NAME	MATERIAL
1.....	2 .....	3 HOLE BACKING PLATE .....	A-003864
2.....	4 .....	1/4" x 1 1/2" x 2" SQ. HOLE BACKING PLATE.....	A-000039
3.....	4 .....	1/2" x 1 1/2" CARRIAGE BOLT .....	350362-00
4.....	2 .....	1/2" x 1 1/4" BOLT .....	350094-00
5.....	10 .....	1/2" LOCK WASHER.....	350309-00
6.....	10 .....	1/2" HEX NUT.....	350258-00
7.....	4 .....	8mm x 1.25 x 35 mm BOLT .....	356002-00
8.....	4 .....	8mm LOCK WASHER .....	355705-00
9.....	4 .....	8mm FENDER WASHER .....	355702-00
10.....	2 .....	6mm x 1 x 35 mm BOLT .....	355896-00
11.....	2 .....	6mm LOCK WASHER .....	355761-00
12.....	2 .....	6mm FENDER WASHER .....	355755-00
13.....	2 .....	1/2" x 1 1/2" BOLT .....	350095-00
14.....	2 .....	1/2" x 4" BOLT .....	350105-00
15.....	2 .....	1/2" FLAT WASHER .....	350308-00
16.....	2 .....	10" SAFETY CABLES .....	650646-10
17.....	2 .....	QUICK LINK .....	200008-00
18.....	2 .....	SAFETY PIN.....	356997-00
19.....	1 .....	DRIVER SIDE REAR BRACE .....	C-002334
20.....	1 .....	PASSENGER SIDE REAR BRACE .....	C-002335
21.....	1 .....	DRIVER SIDE ARM .....	C-002201
22.....	1 .....	PASSENGER SIDE ARM .....	C-002202
23.....	1 .....	DRIVER SIDE RECEIVER .....	C-002336
24.....	1 .....	PASSENGER SIDE RECEIVER .....	C-002337



# MOUNTING BRACKET KIT INSTALLATION INSTRUCTIONS

**KIT# 521225-1**

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 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.



Stock



Turbo/S

**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.

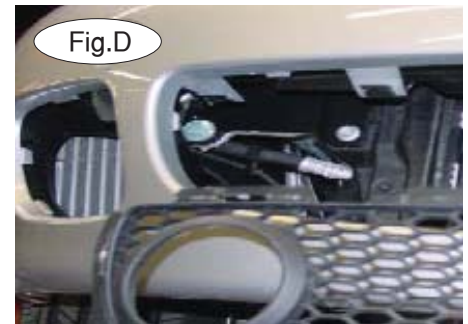
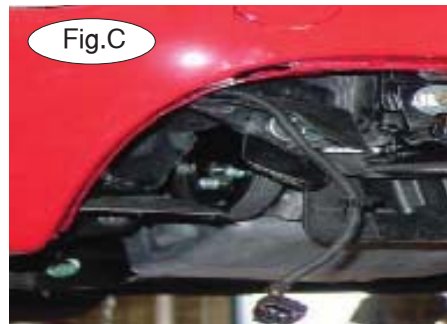
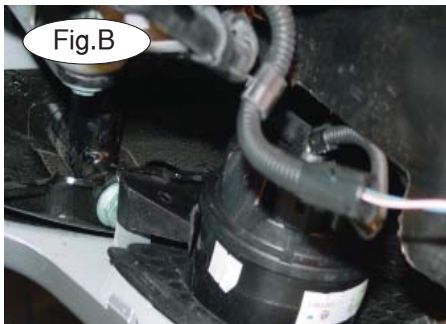
- **Installation of most mounting brackets requires moderate mechanical aptitude and skills.** We strongly recommend professional installation by an experienced installer.
- **The installer must read the instructions and use all bolts and parts supplied.** Failure to do so could result in loss of the 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# 521225-1**

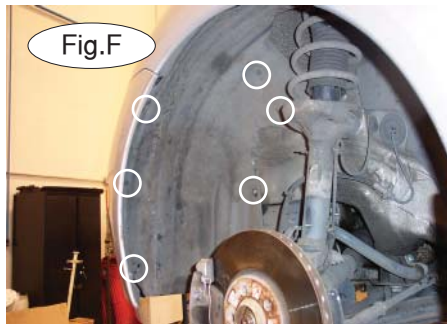
This is one of our EZ lock bracket series which allows the visible front portion of the brackets to be easily removed from the front of the car by rotating the front braces. The bracket kit consists of two rear receiver braces, two rear frame braces, two front bumper braces, two tubular main braces and a hardware pack. The rear receiver braces mount to the frame below the headlights and behind the bumper. The rear frame braces bolt to the rear receiver braces and then to the sides and bottoms of the frame on both sides. The tubular main braces are inserted through the front fascia into the rear braces and rotated 90 degrees to lock in place. Before starting the installation, lay out the kit components as illustrated (Fig. A). This will give you a visual idea of how the components work and also confirm that everything is 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 locating and removing three plastic rivets securing the lower lip of the grill to the radiator cross frame. *Note:* the plastic rivets can be removed by using a small punch or screwdriver to push the plastic center pin out the back of the rivet. Then, remove the license plate holder.

2. Next, if fog lights are present, remove three screws holding the fog lights behind the bumper fascia.(Fig.B) *Note:* the screws can be either Phillips or Torx 25 and the top two will require pulling the plastic down and forward to access the top screws with a small bit. These screws must be removed. The lights can then be saved for reinstallation at a later date.

3. Now the lower grill can be removed by pulling forward while simultaneously inserting a blade or screw driver between the grill and bumper fascia, pushing into the snap and twisting until it releases. There are 16 snaps in the edge of the grill (Fig.C). *Note:* it is difficult but possible to install the braces by just unsnapping the corners of the grille and pulling forward. *Note:* on turbo/S models (Fig.D) push the three grilles in to unsnap them.



4. On each side, remove the wheel cover and wheel by removing five lugnuts (Fig.E).

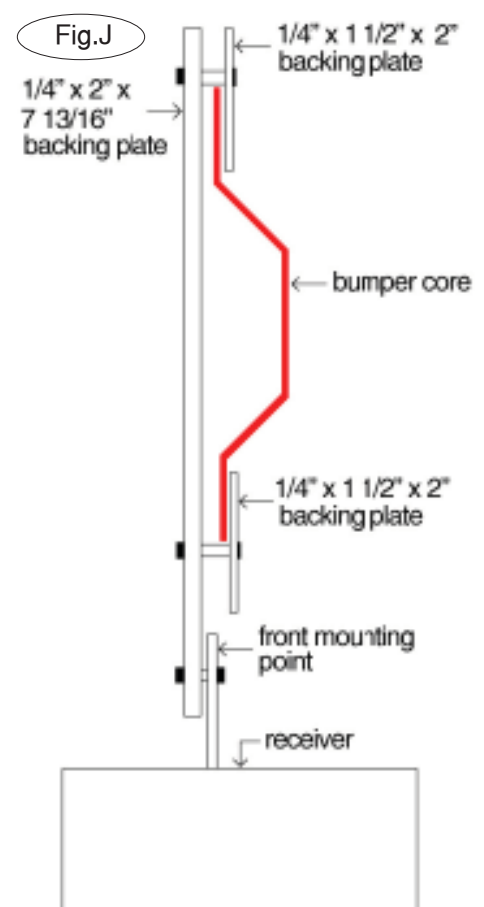
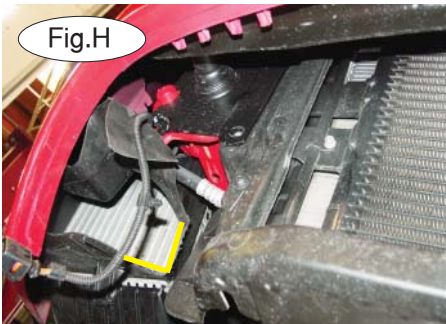
5. On each side, remove seven T25 screws attaching the fender liner to the fascia (Fig.F).

6. Remove all of the lower splash shields. Now, on each side, pull down to remove the vertical side shield. *Note:* you may need to pop out the cinch clip to assist in this process (Fig.G).



# MOUNTING BRACKET KIT INSTALLATION INSTRUCTIONS

**KIT# 521225-1**



7. **On Turbo models:** before the bracket can be installed, locate the intercooler in the passenger side fender wall. The inside edge of the air deflector will need to be removed, trimmed, and reinstalled to allow clearance for the passenger side main receiver brace. Use the yellow lines in Figure H as a guide for trimming.

8. Remove two 8mm bolts holding the bumper mounts in place. Also, remove the 8mm bolts holding the radiator support. *Note:* some models may have 6mm bolts.

9. Hold the receiver brace in place and bolt through with the supplied 8mm x 1.25 x 35mm bolts, lock washers and flat washers (Fig.I).

10. Repeat step 5 and 6 on the remaining side.

11. Install the bumper brace plates on the bumper using four 1/2" x 1 1/2" carriage bolts, 1/4" sq. hole backing plates, lock washers and nuts. Then, bolt through the receiver brace using 1/2" x 1 1/4" bolts and washers. *Note:* the 1 1/2" x 2" backing plates should be installed over the top and the bottom lip of the bumper (Fig.J). Do not tighten.



12. Starting with the passenger side, bolt the rear frame brace to the back of the rear receiver brace with a 1/2" x 1 1/2" bolt, flat washers, lock washer and nut. Tighten and align the rear frame brace against the bottom of the frame.

13. Using the pre-drilled holes in the receiver brace as a template (Fig.K), drill through the frame with a 1/2" drill bit. Then, bolt into place using a 1/2" x 4" bolt, lock washer and nut (Fig.L). *Note:* be sure to use a backing plate on the back of the frame when drilling to avoid engine damage.

14. Repeat steps 12 and 13 on the driver's side (Fig.M).

15. Trim the splash shield you removed in step 6, using the yellow trim lines in Figure N as a guide for trimming.

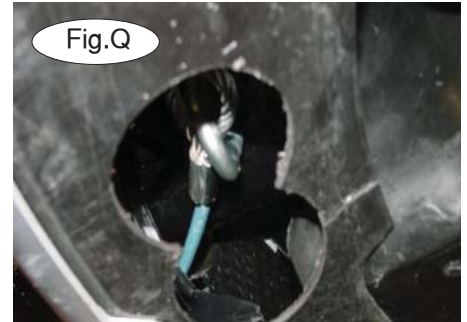
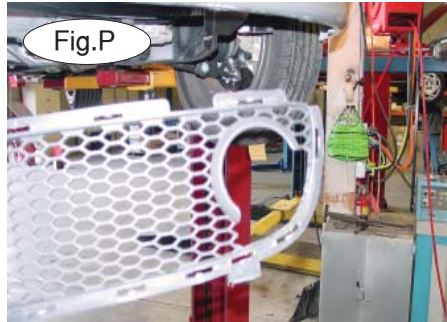
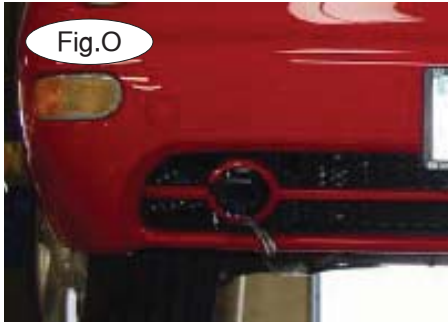
16. Check the brace alignment then torque all mounting bolts to the specifications below.





# MOUNTING BRACKET KIT INSTALLATION INSTRUCTIONS

**KIT# 521225-1**



17. Reinstall grille and fascia by reversing steps 1 through 4. The standard grille will fit over the receiver braces without trimming (Fig.O). The turbo/s model grille will require trimming to fit (Fig.P).
18. In addition, access holes for the safety cable attachment will have to be cut in the lower front splash panel on each side(Fig.Q).
19. Insert the front tubular main braces in the rear receiver braces on each side and twist 90 degrees to lock in place. Install safety pins in safety tabs to lock into place (Fig.R). Mount the tow bar according to the manufacturer's instructions.
20. Attach the tow vehicle's safety cables to the front of the receiver with the included supplied cable connectors.



## 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.