

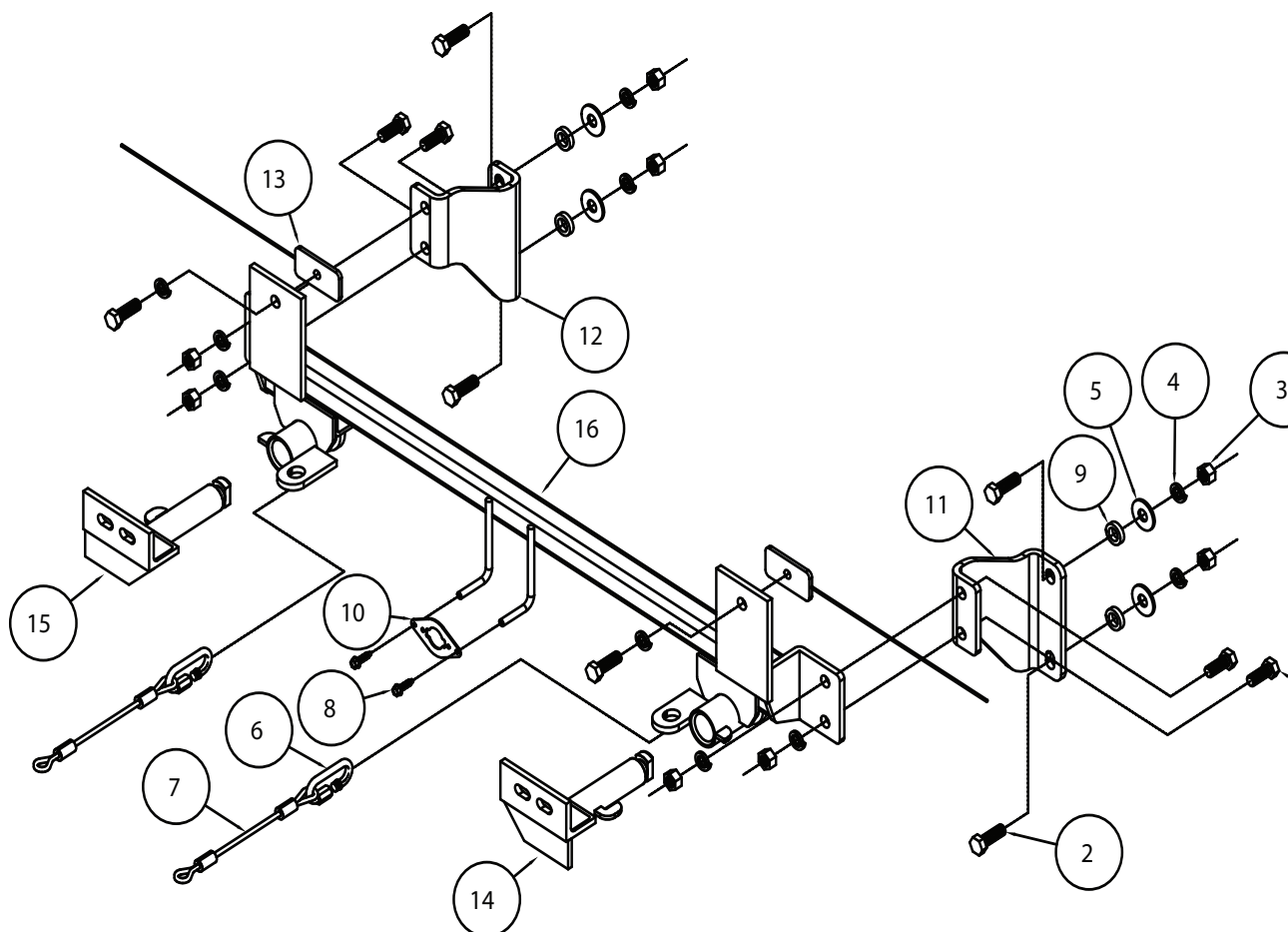


MOUNTING BRACKET KIT INSTALLATION INSTRUCTIONS

KIT# 524432-1

 11/29/12
KS

ROADMASTER, Inc. 6110 NE 127th Ave. Vancouver, WA 98682 360-896-0407 fax 360-735-9300 www.roadmasterinc.com



ITEM	QTY	NAME	MATERIAL
1.....	4.....	1/2" x 1 1/4" BOLT	350094-00
2.....	8.....	1/2" x 1 1/2" BOLT	350095-00
3.....	8.....	1/2" HEX NUT	350258-00
4.....	10.....	1/2" LOCK WASHER	350309-00
5.....	4.....	1/2" FLAT WASHER.....	350308-00
6.....	2.....	QUICK LINK.....	200008-00
7.....	2.....	8" SAFETY CABLE	650646-08
8.....	2.....	#10 x 3/4" SELF DRILLING SCREW	350247-35
9.....	4.....	1" O.D. x 0.188 x 1/4" SPACER	A-001022
10.....	1.....	WIRE PLUG PLATE	A-003801
11.....	1.....	DRIVER SIDE BRACE PLATE	B-002262
12.....	1.....	PASSENGERSIDE BRACE PLATE	B-002263
13.....	2.....	1 1/2" x 3" THREADED BACKING PLATE W/ 12 ROD	C-002006
14.....	1.....	DRIVER SIDE ARM	C-002511
15.....	1.....	PASSENGER SIDE ARM.....	C-002512
16.....	1.....	MAIN RECEIVER.....	C-002513



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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 subframe 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.
- **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.

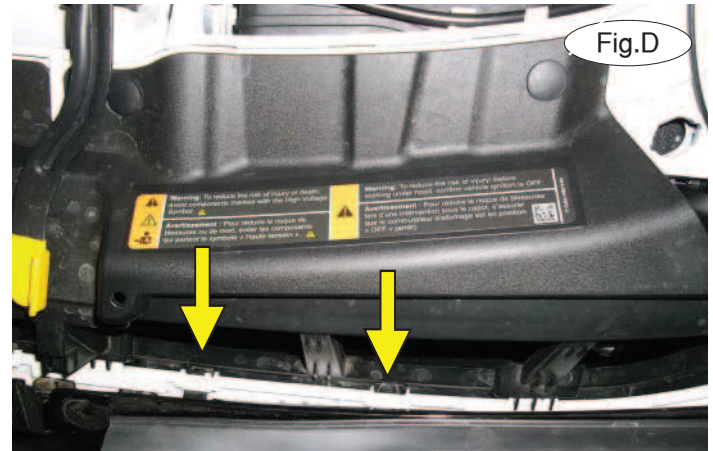
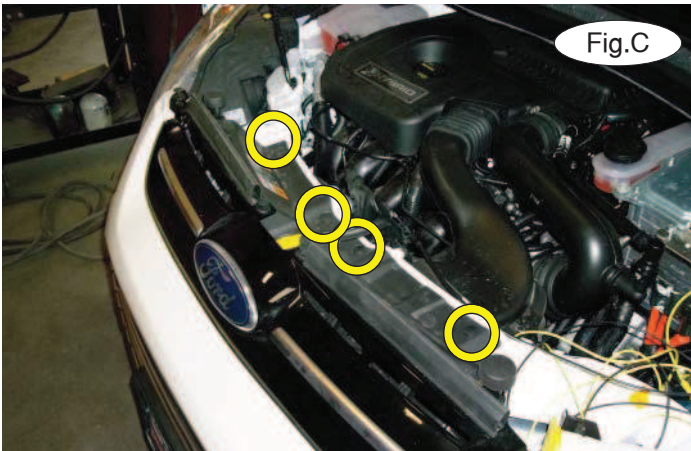


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1. **Important:** please use all supplied bolts and parts and read all instructions carefully before beginning this installation. The majority of questions you may have can be answered within the text, and proper installation will ensure safe and secure travel. Now, begin the installation. Remove four plastic fasteners attaching the top of the fascia to the core support (Fig.C).

2. Pull back the upper grille to locate four clips attaching the upper grille to the fascia (Fig.D – driver's side).



3. Working from one side to the other, carefully pull the upper grille away from the fascia and slide a screwdriver under the upper grille to release each of the four clips you located in step 2 (Fig.E and Fig.F).

4. Use a screwdriver to release five clips attaching the fascia to the fascia support (Fig.F – passenger side).

5. On each side, remove one plastic fastener and two T30 screws attaching the corner of the fascia to the fender liner (Fig.G).



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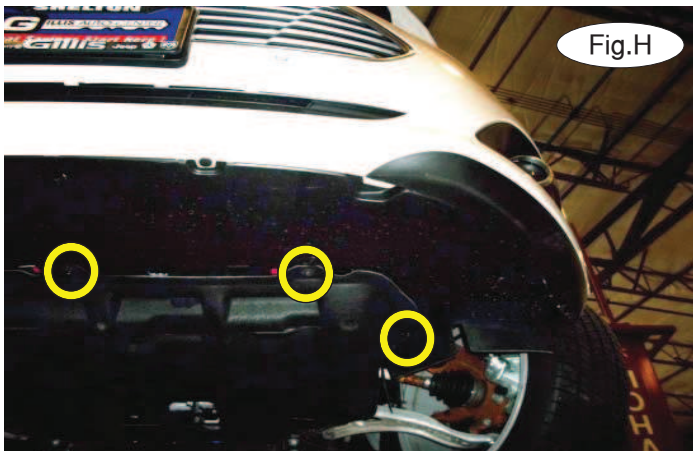


Fig.H

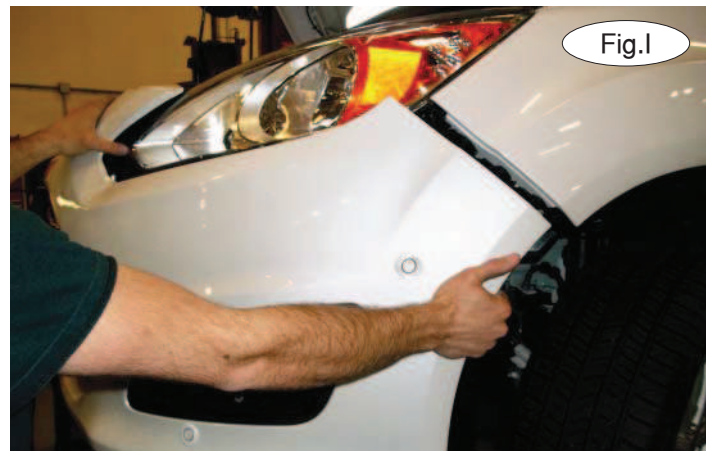


Fig.I

6. On each side, remove three plastic fasteners attaching the fascia to the splash shield (Fig.H – driver's side).
7. Pull out and forward to release the fascia from its locking strip (Fig.I). Disconnect the fascia sensors and fog lights, if the vehicle is so equipped.



Fig.J

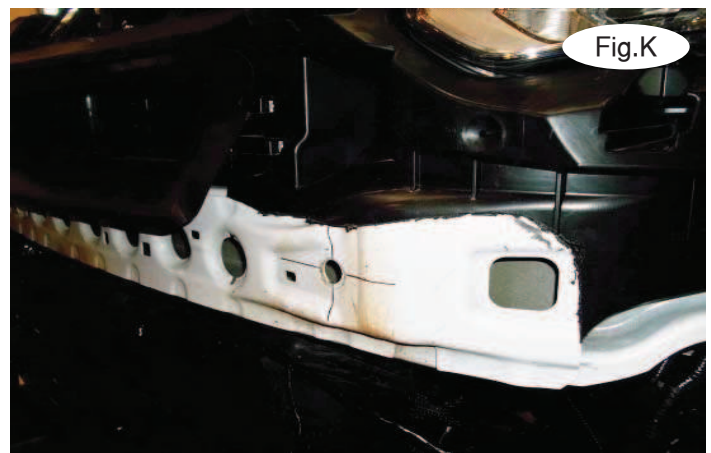


Fig.K

8. Disconnect the sensor wiring loom from the bottom of the shock absorption pad.
9. Using the yellow lines in Figure J as a reference, cut off the shock absorption pad. Figure K shows the completed removal of the shock absorption pad.



Fig.L

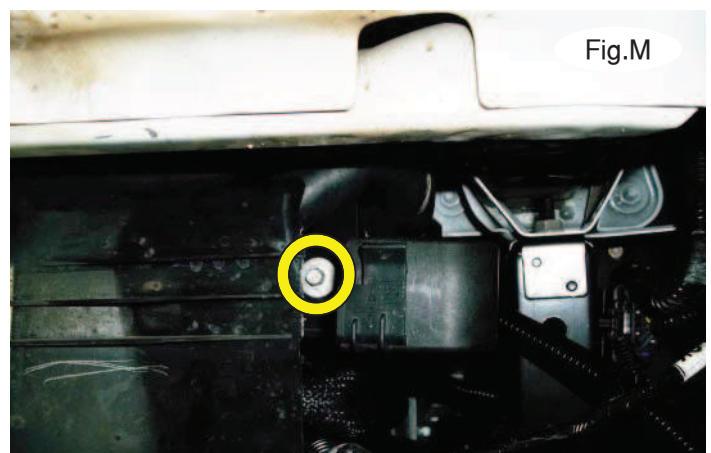


Fig.M

10. Cut off the support tab on the driver's side (Fig.L) and remove an 8mm (head) bolt attaching the plastic bracket to the core support (Fig.M).

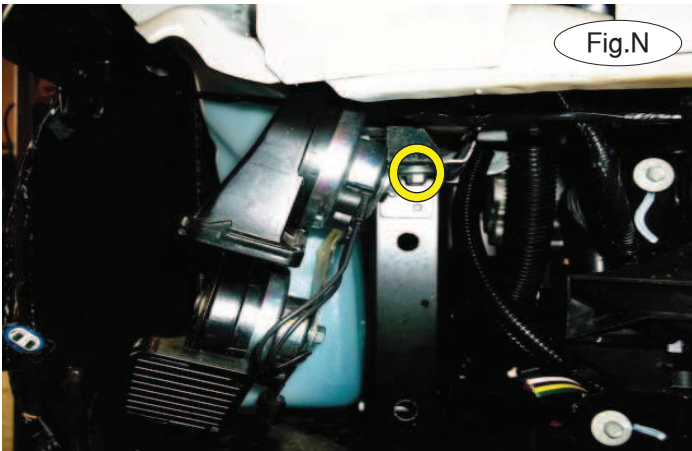


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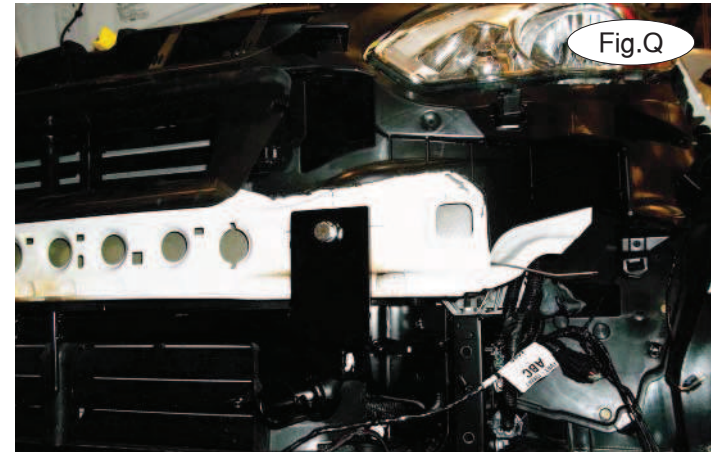
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11. On the passenger side, bend the horn bracket up and then temporarily remove the horns by removing one 10mm (head) bolt (Fig.N).

12. On each side, drill out the two pre-existing holes in the subframe using a 1/2" drill bit (Fig.O).



13. Working on one side at a time, place one of the supplied 3/16" x 1 1/2" x 3" threaded backing plates with rod inside the bumper core, aligning it with the pre-existing holes in the bumper and bending the rod as necessary (Fig.P). Using a second person to help hold the bracket, lift the bracket under the bumper core and align the holes in the main receiver brace with the pre-existing holes in the face of the bumper core.

Now, using the supplied 1/2" x 1 1/2" bolts and 1/2" lock washers, bolt through the main receiver brace, bumper core and into the threaded backing plate with rod (Fig.Q). *Note:* ensure proper alignment, as the bolts will receive Loctite® Red and will be torqued at the end of these instructions.

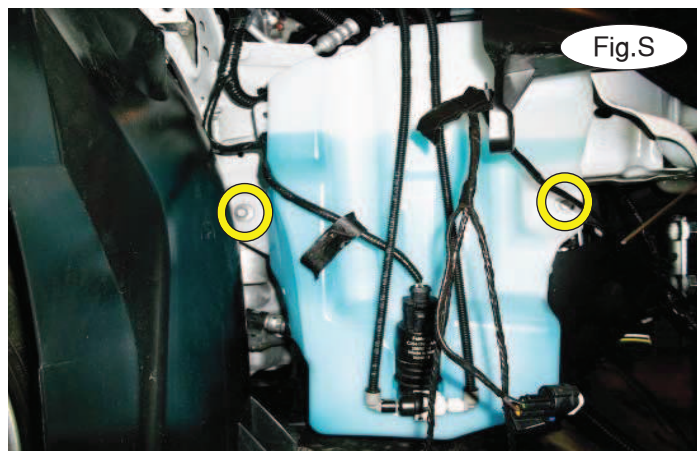


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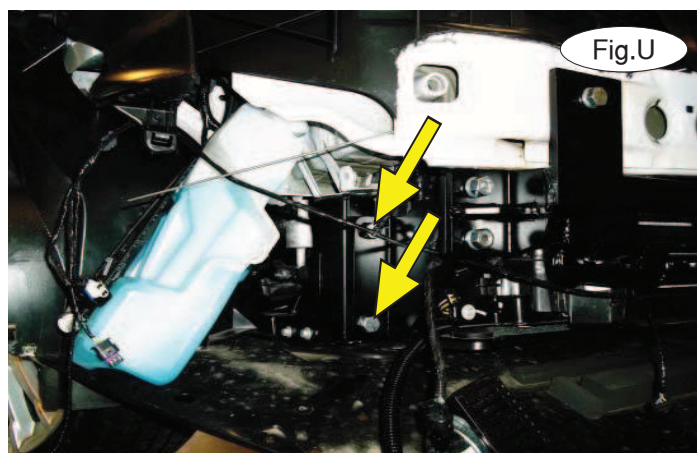
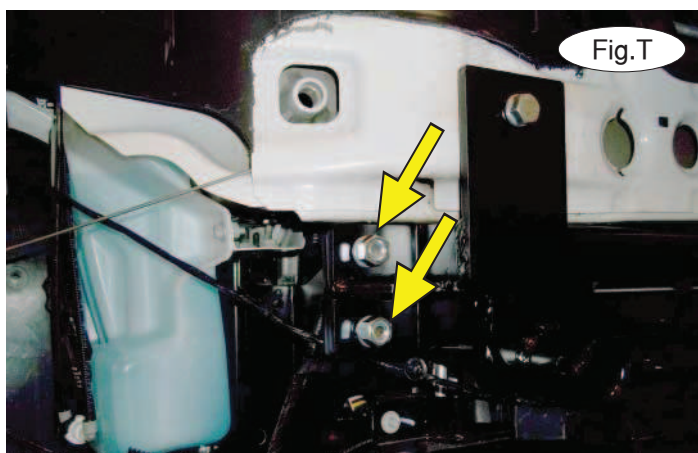
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14. On the passenger side, pull the washer bottle neck up through the engine compartment to remove it (Fig.R). Now, remove two 10mm (head) bolts attaching the washer bottle to the subframe (Fig.S). Let it hang down for now.

15. On each side, align the forward holes in the rear support plate with the holes in the main receiver brace. Bolt through the support plate and main receiver brace on each side using the two supplied $\frac{1}{2}$ " x $1\frac{1}{4}$ " bolts, $\frac{1}{2}$ " lock washers and $\frac{1}{2}$ " nuts (Fig.T).

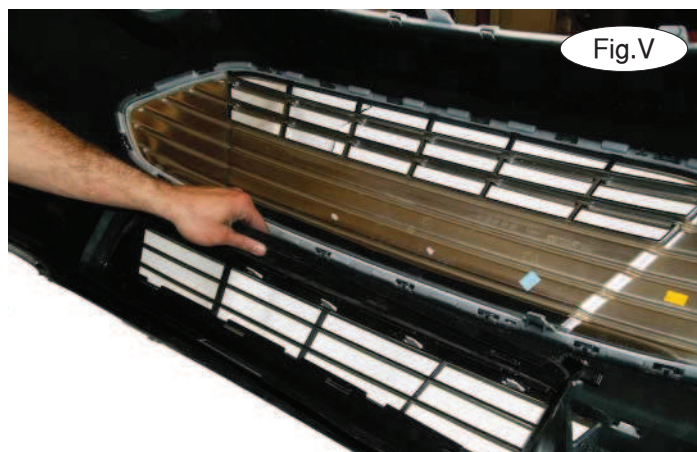


16. On each side, place one of the supplied $\frac{1}{4}$ " x 1" O.D. x .188 wall pipe spacers between each of the two lower mounts of the rear support plate and the subframe. Bolt through each hole using one of the supplied $\frac{1}{2}$ " x $1\frac{1}{2}$ " bolts, $\frac{1}{2}$ " lock washers and $\frac{1}{2}$ " nuts (Fig.U).

17. Tighten the bolts to the bolt torque requirements found at the end of these instructions.

18. Replace the washer bottle, reversing steps 14 and 15.

19. Remove the duct shroud on the backside of the fascia (Fig.V). It will not be replaced. *Note:* retain the duct shroud in case the mounting bracket is ever removed.





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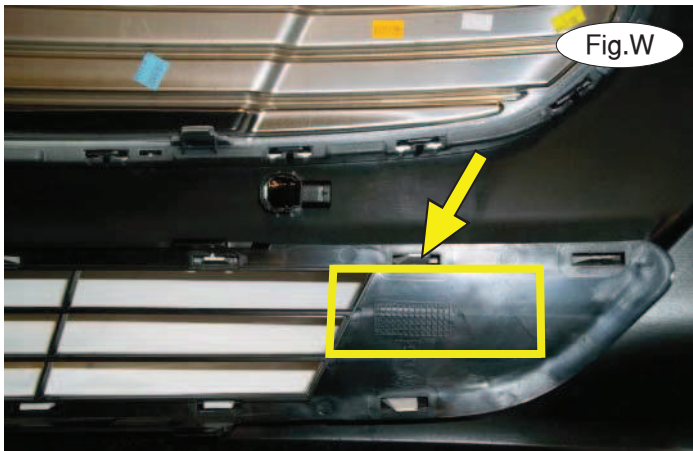


Fig.W



Fig.X

20. Reference the yellow arrow in Figure W to trim off the tab and to trim the fascia on both sides. Figure X shows the completed trimming.

21. Reinstall the fascia, reversing steps 1 through 7.

22. Insert the removable front bracket arms into the front receiver braces, and twist each one 90 degrees to lock.

23. Attach the 8" safety cables with the cable connectors (Q-Links) to the front of the receiver braces (Fig.Y). *Note:* if your cables are long enough and can easily connect to the safety cable anchor built onto the main receiver brace, forego the use of the 8" cables included with this kit.

24. Attach the ends of the safety cables to the tow vehicle's safety cables and tow bar.

25. Install the tow bar to the mounting bracket according to the manufacturer's instructions.



Fig.Y

Note: if the bracket is so equipped, the holes in the alignment tabs which are welded to the arms and main receiver braces are for padlocks only. Under no circumstances should you bolt the alignment tabs together. Bolting the alignment tabs together may result in non-warranty damage to the bracket.



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Three options for attaching the wiring plug to the main receiver brace

For six-wire plugs: use the two supplied $\frac{3}{4}$ " self-tapping screws to attach the electrical plug directly to the rods on the front of the main receiver brace.

For four-wire round plugs: attach to the plug mounting plate and then use the two supplied $\frac{3}{4}$ " self-tapping screws to attach the mounting plate to the rods on the front of the main receiver brace.

For four-wire flat plugs: place the plug through the mounting plug plate, and then secure it using the supplied zip tie on the front of the plug (Fig.Z). Use the two supplied $\frac{3}{4}$ " self-tapping screws to attach the mounting plate to the rods on the front of the main receiver brace.

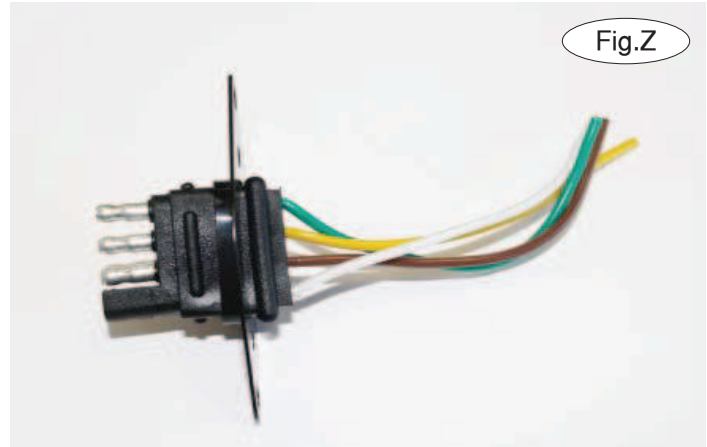


Fig.Z

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.

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