



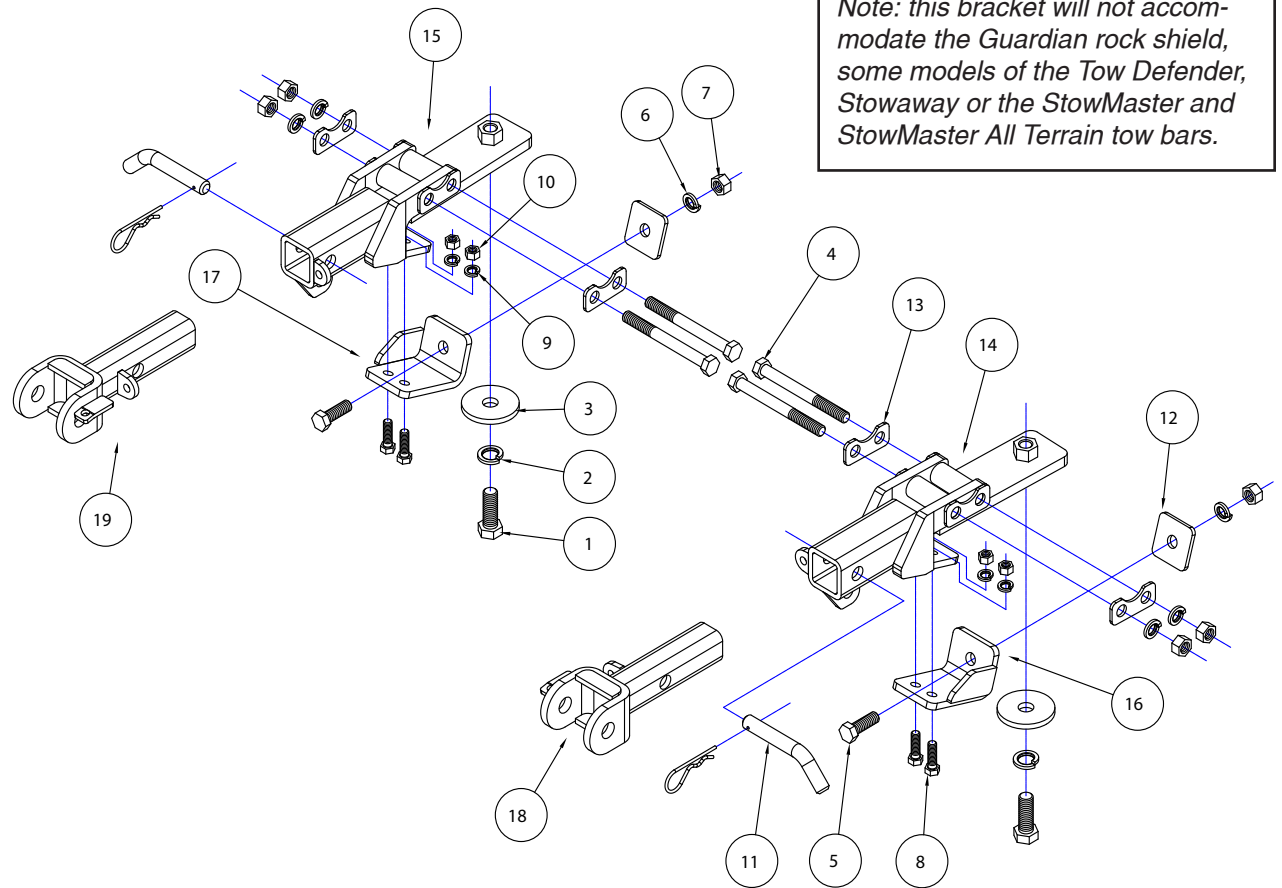
# BASEPLATE KIT INSTALLATION INSTRUCTIONS

**KIT# 3154-3**

12/22/17  
KS

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

**Important**  
Note: this bracket will not accommodate the Guardian rock shield, some models of the Tow Defender, Stowaway or the StowMaster and StowMaster All Terrain tow bars.



ITEM	QTY	NAME	PART #
1	2	5/8" x 2" BOLT	350150-00
2	2	5/8" LOCK WASHER	350313-00
3	2	5/8" PLATE WASHER	350352-00
4	4	1/2" x 5" BOLT	350107-00
5	2	1/2" x 1 1/2" BOLT	350095-00
6	6	1/2" LOCK WASHER	350309-00
7	6	1/2" HEX NUT	350258-00
8	4	3/8" x 1 1/4" BOLT	350056-00
9	4	3/8" LOCK WASHER	350305-00
10	4	3/8" HEX NUT	350254-00
11	2	DRAW PIN W/ CLIP	357035-00
12	2	3/16" x 2" x 2" BACKING PLATE	A-001066
13	4	1 1/8" x 2 9/16" BACKING PLATE	A-005218
14	1	DRIVER SIDE RECEIVER	C-001381
15	1	PASSENGER SIDE RECEIVER	C-001382
16	1	DRIVER SIDE LOWER BRACE	C-001385
17	1	PASSENGER SIDE LOWER BRACE	C-001386
18	1	DRIVER SIDE ARM	C-001387
19	1	PASSENGER SIDE ARM	C-001388



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This is one of our MX 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 two main receiver braces, two lower braces, two removable front braces and a hardware pack.

The main receiver braces mount to the frame rails. The lower braces mount to the main braces and the frame. The removable front braces 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 baseplates **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 and lock washers on all fasteners.

## WARNING

Failure to heed these warnings or follow the installation instructions may result in a voided warranty, loss of towed vehicle, personal injury or death.

- Do not weld or modify this baseplate or its components. Welding or modification will void the warranty.
- Do not use this document as a basis to design/fabricate a baseplate, as it may not show all parts or structural components.
- We strongly recommend professional installation.
- If the towed vehicle has been in an accident, it must be properly repaired before attaching the baseplate. Do not install the baseplate if any structural frame damage is found.
- The installer must use all bolts and parts supplied. If running changes were made by the vehicle manufacturer after this kit was designed, some bolts or other fasteners may no longer be the correct size. It is the installer's responsibility to verify this kit is securely fastened to the vehicle.
- Use Loctite® Red on all bolts used to secure this baseplate. Torque all bolts to the specifications found at the end of these instructions. Do not over-torque the bolts or failure may occur.
- The installer must inspect the baseplate to ensure adequate clearance, particularly around hoses, air conditioner lines, radiators, etc. or non-warranty failure may result.
- Roadmaster manufactures many styles of baseplates. If your baseplate 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.
- Some motorhome chassis have such a tight turning radius that you can damage your motorhome, towed vehicle, tow bar or baseplate 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 your 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 or vehicles.
- 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. See cable instructions for proper routing. Failure to do so will result in non-warranty damage and/or the loss of the towed vehicle.
- This kit is designed for use with ROADMASTER tow bars and ROADMASTER adapters only. Using this kit with other brands, without an approved ROADMASTER adapter, may result in non-warranty damage or injury.
- Receiver extensions and out-of-level towing situations of 3 inches or more. This can cause the system to swing much higher and lower, causing excessive strain on the tow bar, baseplate and frame. That can cause the towing system to fail, causing property damage, personal injury or even death. If you must use a receiver extension or drop hitch to tow, it will reduce your receiver's weight capacity by 1/3 to avoid damaging your system. Never use more than one extension and/or drop hitch, as this will void your warranty.
- Every 3,000 miles, the owner must inspect all mounting points for cracks or fatigue, and check the fasteners for proper torque, according to the bolt torque requirements chart on the last page of these instructions.
- The owner must follow the vehicle manufacturer's instructions to prepare the vehicle for towing. Failure to do so may cause severe damage to the vehicle.
- This baseplate is only warranted for the original installation. Installing a used baseplate on another vehicle is not recommended and will void the warranty.





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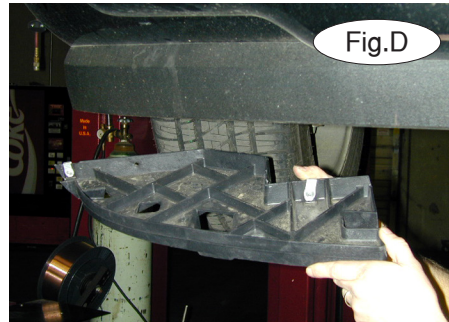
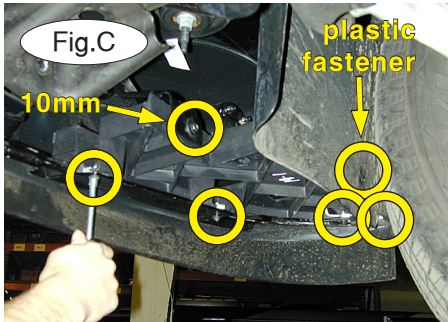
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## Tahoe, Yukon, Suburban, Avalanche Z71 and Escalade Instructions

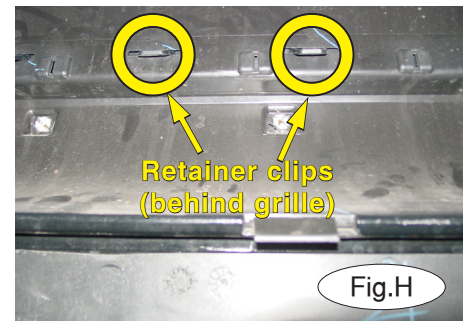
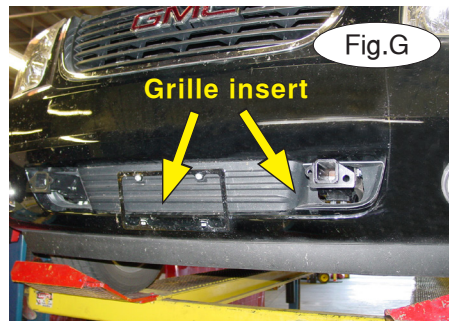
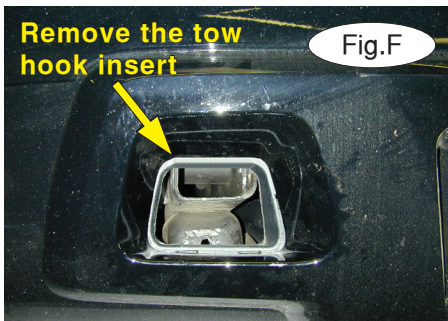
This bracket kit fits the Tahoe, Yukon, Suburban, Avalanche Z71, Escalade, Silverado and the Sierra. Follow the instructions below for the Tahoe, Yukon, Suburban, Avalanche Z71 and Escalade; for the Silverado and Sierra, see the supplemental section included at the end of these instructions.



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. This bracket kit has two main receiver braces, one for the passenger side and one for the driver's side. First, install the passenger side brace.

Start by removing the lower fascia reinforcement on the passenger side – remove four 7mm (head) screws, one 10mm (head) screw, and one plastic fastener (Fig.C) to remove the fascia reinforcement (Fig.D).

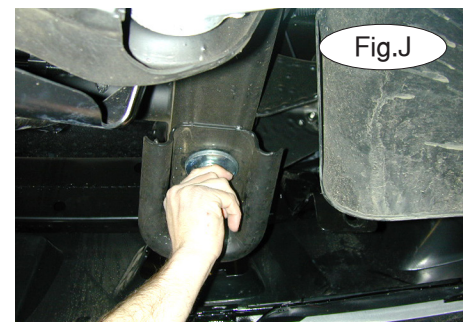
2. Then, remove the tow hook – remove one 18mm (head) bolt, and one 18mm bolt and nut (Fig.E).



3. Remove the tow hook inserts (one on each side – Fig.F). *Note:* on GMC Yukon models the grille insert is one piece (Fig.G). Remove the insert by removing four plastic fasteners (two each side), and releasing nine plastic retainer clips. The four plastic fasteners are located above and below the tow hooks on each side. The plastic retainer clips are located in the center behind the grille (Fig.H).

4. Insert the passenger side main brace into the tow hook opening, and onto the front of the frame rail (Fig.I).

5. Attach the passenger side main brace to the bottom of the frame rail – thread one of the supplied 5/8" x 2" bolts, lock washers and plate washers through the existing hole at the bottom of the frame and into the existing weld nut at the bottom of the passenger side main brace (Fig.J).







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Fig.K

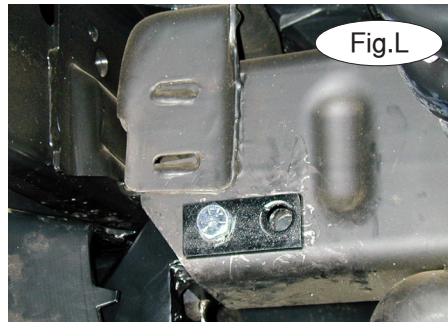


Fig.L

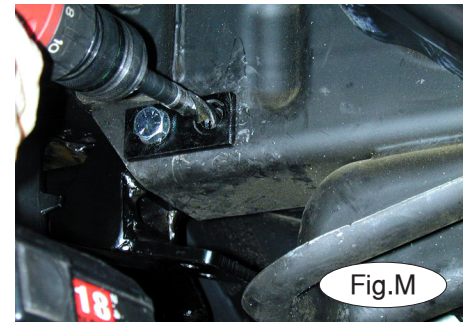


Fig.M

6. On the interior side, insert one of the supplied  $\frac{1}{2}$ " x 5" bolts through one of the backing plates (with two  $\frac{9}{16}$ " holes) and into the existing hole at the front of the passenger side frame rail, which was used to attach the tow hook (Fig.K). *Note:* due to manufacturing variances, this hole may need to be enlarged. *Note:* due to running changes, the backing plates used in this step may look slightly different. If they do, use the drawing on page 1 to orient them correctly.

7. Now, level the backing plate to the bottom of the frame rail (Fig.L).

8. Using the other hole in the backing plate as a template, drill a  $\frac{17}{32}$ " hole through the interior side of the frame rail and through the other side of the frame rail (Fig.M).

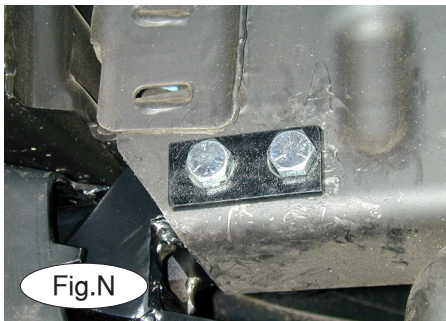


Fig.N

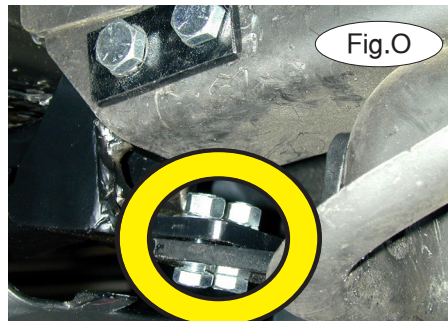


Fig.O



Fig.P

9. From the inside of the frame rail, insert another  $\frac{1}{2}$ " x 5" bolt through the backing plate and the hole you just drilled. On the outside of the frame rail, position another backing plate (with two  $\frac{9}{16}$ " holes) over the bolts. Then, attach the backing plate with two  $\frac{1}{2}$ " lock washers and nuts (Fig.N)

10. Bolt the lower brace to the main brace. Use two  $\frac{3}{8}$ " x  $1\frac{1}{4}$ " bolts, lock washers and nuts (Fig.O).

11. Hold one of the supplied  $\frac{3}{16}$ " x 2" x 2" backing plates (with a  $\frac{9}{16}$ " hole) over the back of the lower frame reinforcement (Fig.P). Next, using the hole in the backing plate as a template, drill a  $\frac{17}{32}$ " hole through the lower frame reinforcement, and into the lower brace. *Note:* the hole is 2" from the bottom edge of the lower frame reinforcement, and centered.

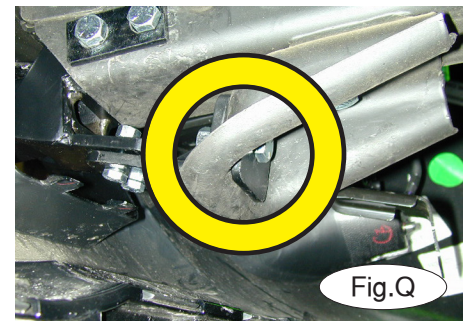


Fig.Q

12. Now, bolt through the backing plate, the hole you just drilled, the lower frame reinforcement, and the lower brace, using a  $\frac{1}{2}$ " x  $1\frac{1}{2}$ " bolt. Attach the bolt with a  $\frac{1}{2}$ " lock washer and nut (Fig.Q).

13. This completes the installation of the passenger side brace. Now, install the driver's side brace. The driver's side brace is installed in the same manner, with two exceptions:

A. Do not remove the lower fascia reinforcement on the driver's side. B. On the driver's side, use the existing rear tow hook hole as a template to drill through the outer side of the frame rail (Fig.R).

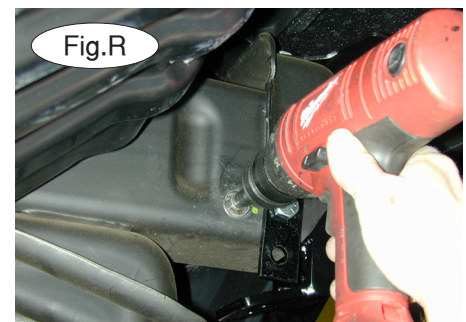


Fig.R





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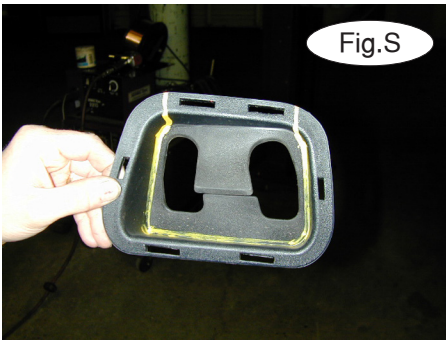


Fig.S

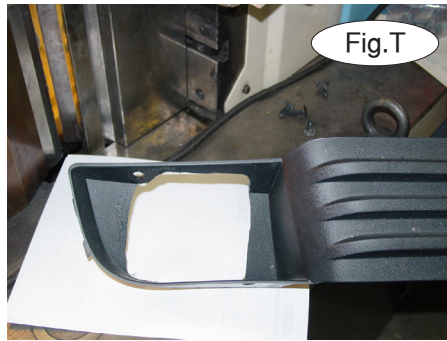


Fig.T

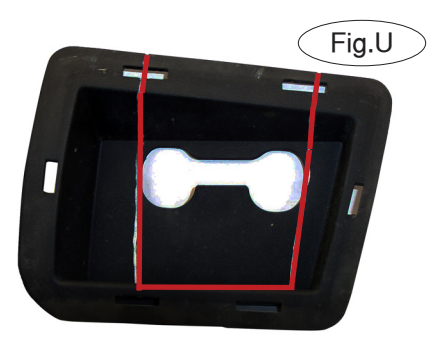


Fig.U

14. After installing the driver's side main receiver brace, tighten all bolts on both braces to the bolt torque requirements found at the end of these instructions.

15. On both sides, trim the top and the bottom of the rubber tow hook inserts. Use the yellow marker line in Figure S as a reference. **For the GMC Yukon:** refer to Figure T for correct trimming before reinstalling the grille insert. **For the Cadillac Escalade:** use the red guide lines in Figure U for correct trimming. **For the Chevrolet Avalanche Z71:** use the red lines in Figure V for correct trimming.

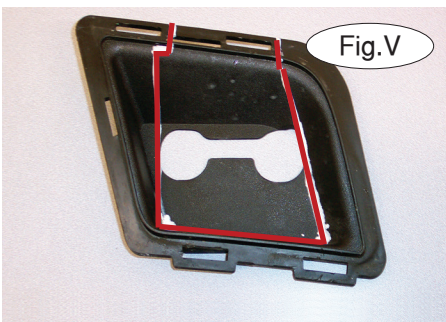
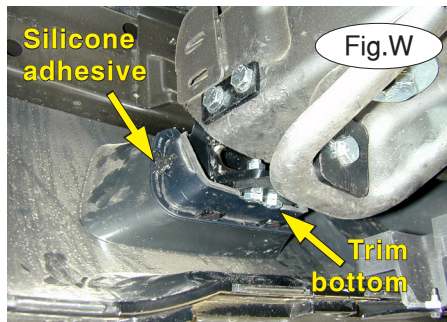


Fig.V



Silicone adhesive

Fig.W

Trim bottom



Fig.X

16. Test fit the rubber tow hook inserts, then trim the bottom of each insert to accommodate the heads of the 3/8" x 1 1/4" bolts attaching the lower brace to the main brace (Fig.W).

17. Reattach the rubber tow hook inserts, using a silicone adhesive along the side alignment tabs (Fig.W).

18. Reattach the passenger side lower fascia reinforcement, which you removed in step 1.

19. Fit the front bracket arms into the front receiver braces, and secure them in place with the supplied 5/8" draw pins and spring pins (Fig.X).

20. Install the tow bar to the mounting bracket according to the manufacturer's instructions. Connect the safety cables to the safety cable tabs illustrated on the first page of these instructions.

*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.

## 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
5/16-18	5	13 ft./lb.
3/8-16	5	23 ft./lb.
7/16-14	5	37 ft./lb.
1/2-13	5	57 ft./lb.
5/8-11	5	112 ft./lb.

### METRIC BOLTS

Thread Size	Grade	Torque
6mm-1.0	8.8	6 ft./lb.
8mm-1.0	8.8	18 ft./lb.
8mm-1.25	8.8	16 ft./lb.
10mm-1.25	8.8	36 ft./lb.
10mm-1.5	8.8	31 ft./lb.

### METRIC BOLTS

Thread Size	Grade	Torque
12mm-1.25	8.8	64 ft./lb.
12mm-1.5	8.8	60 ft./lb.
12mm-1.75	8.8	55 ft./lb.
14mm-2.0	8.8	88 ft./lb.



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## Supplemental Instructions – 2007 to 2010 Silverado or Sierra

This supplement supersedes steps 1 through 3 in the mounting bracket installation instructions.



Fig.A

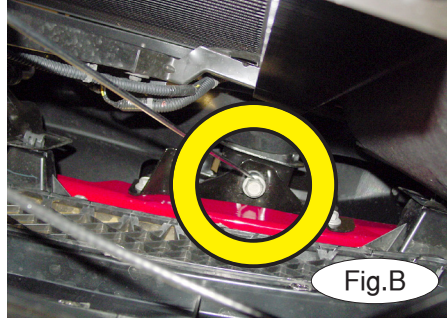


Fig.B



Fig.C

1. Remove eight plastic fasteners attaching the radiator cover to the grille and core support (Fig.A). Then remove the radiator cover.
2. There are two 21mm (head) bolts, one per side, attaching the bumper to the top of the frame rails. The bolts are located between the back of the grille and the radiator. Remove the bolts temporarily to install the bracket (Fig.B).
3. Remove the tow hooks – remove one 18mm (head) bolt, and one 18mm bolt and nut (Fig.C).
4. The tow hook openings in the front of the fascia need to be trimmed to allow access for the main receiver brace. See Figure D and E for correct trimming.
5. Now, proceed to step 4 in the mounting bracket installation instructions. *Note:* after the installation is complete, replace the bumper mounting bolts and radiator cover by reversing steps 1 and 2. Then, tighten the bumper mounting bolts to the torque specifications listed at the end of the mounting bracket installation instructions.

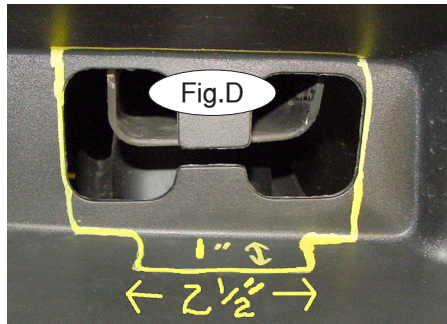


Fig.D

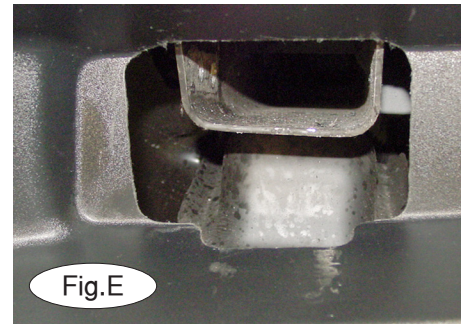


Fig.E