

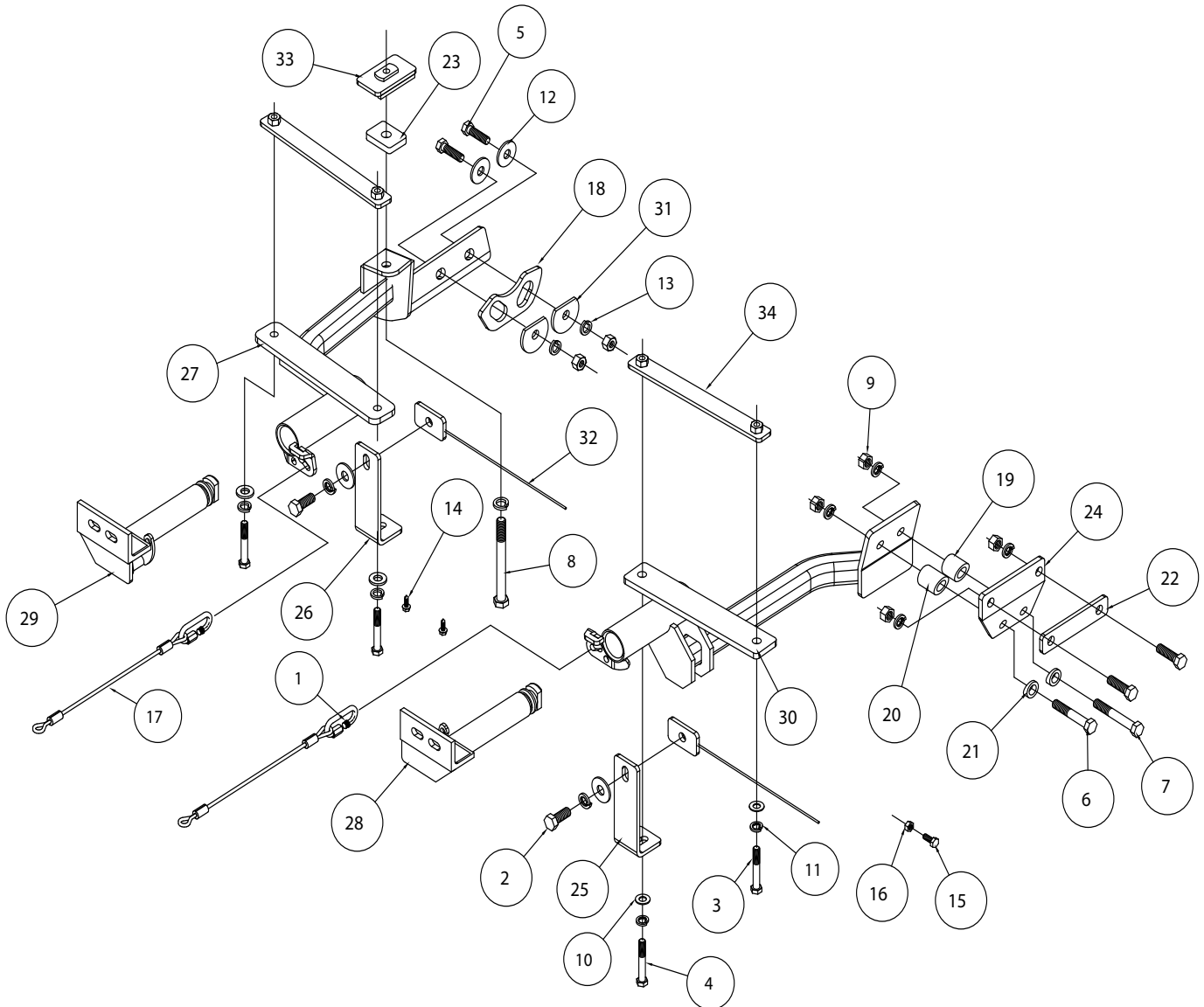


BASEPLATE KIT INSTALLATION INSTRUCTIONS

KIT# 52491-3

08/02/19
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	2	QUICK LINK	200008-00
2	2	1/2" x 1 1/4" BOLT	350094-00
3	2	7/16" x 1 1/2" BOLT	350074-00
4	2	7/16" X 2" BOLT	350076-00
5	4	1/2" X 1 3/4" BOLT	350096-00
6	1	1/2" x 3" BOLT	350101-00
7	1	1/2" x 3 1/2" BOLT	350103-00
8	1	1/2" X 5" BOLT	350107-00
9	6	1/2" HEX NUT	350258-00
10	4	7/16" FLAT WASHER	350306-00
11	4	7/16" LOCK WASHER	350307-00
12	4	1/2" FLAT WASHER	350308-00
13	9	1/2" LOCK WASHER	350309-00
14	2	TEK SCREW	357250-00
15	1	6mm x 1.0mm x 20mm BOLT	355750-00
16	1	6mm LOCK NUT	355760-00
17	2	8" SAFETY CABLES	650646-08

continued on next page



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18.....	1.....	BACKING PLATE.....	A-000166
19.....	1.....	1 1/4" O.D. 0.250" WALL x 1 5/16" BEVELED TUBE.....	A-001651
20.....	1.....	1 1/4" O.D. 0.250" WALL x 1 5/8" BEVELED TUBE.....	A-001652
21.....	2.....	1" O.D. x 0.188 WALL x 1/2" BEVELED TUBE.....	A-001653
22.....	1.....	1/4" x 1 1/4" x 5 3/4" BACKING PLATE.....	A-001654
23.....	1.....	3/8" x 1 1/2" x 2" BACKING PLATE.....	A-001874
24.....	1.....	REAR MOUNTING PLATE.....	B-000697
25.....	1.....	DRIVER SIDE BRACE.....	B-000698
26.....	1.....	PASSENGER SIDE BRACE.....	B-000699
27.....	1.....	PASSENGER SIDE RECEIVER.....	C-000091
28.....	1.....	DRIVER SIDE ARM.....	C-000092
29.....	1.....	PASSENGER SIDE ARM.....	C-000093
30.....	1.....	DRIVER SIDE RECEIVER.....	C-000681
31.....	2.....	CLIPPED PLATE WASHER.....	A-002687
32.....	2.....	3/16" x 1 1/2" x 2 1/2" THREADED BACKING PLATE W/ ROD.....	C-003425
33.....	1.....	THREADED BACKING PLATE W/ LEDGE.....	C-000688
34.....	2.....	1/4" x 1 1/4" x 11 1/8" THREADED BACKING PLATE.....	C-000096

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.



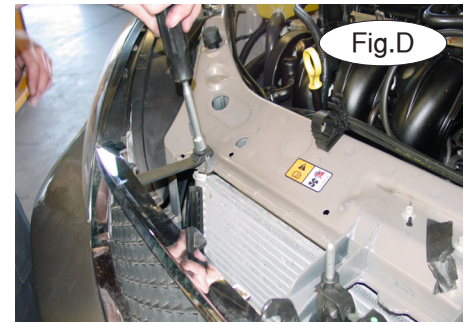
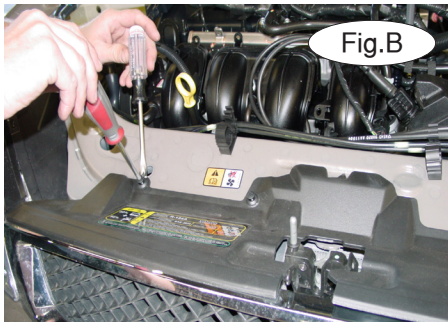
BASEPLATE KIT INSTALLATION INSTRUCTIONS

KIT# 52491-3

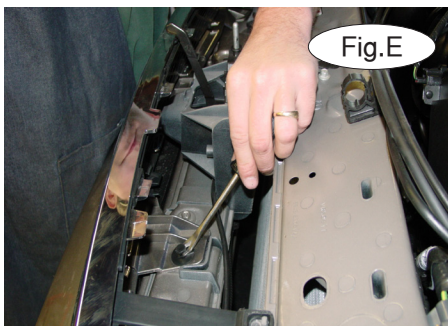
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1. This bracket kit is one of our EZ lock series, which is designed to be partly removable. The kit consists of the main receiver braces, two tubular front braces, and a hardware pack. The main receiver braces mount to the frame and bumper behind the front bumper fascia on each side (Fig.A). The tubular main braces insert through the front lower bumper fascia and rotate 90 degrees to lock in place. Lay the kit components out as they are illustrated before the installation. This will give you a visual idea of how the kit installs and also confirm that the kit components are present and accounted for. The front fascia will have to be removed to access the mounting area and the sides of the lower grille will have to be trimmed to fit around the receiver braces before reinstalling.



2. Remove three plastic fasteners on top the plastic cover for the hood latch and remove the top cover (Fig.B,C). Remove two more grill fasteners (10mm head)(Fig.D), then remove two more plastic fascia fasteners on the top of the fascia (Fig.E).



3. Remove six metal fasteners under the fascia (7mm head)(Fig.F), then three plastic fasteners from the center splash panel (Fig.G). **Note:** 2006 models have five plastic fasteners. Remove one more bolt (10mm head)(Fig.H) from each fender well then remove the center splash panel (Fig.I).





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Fig.J

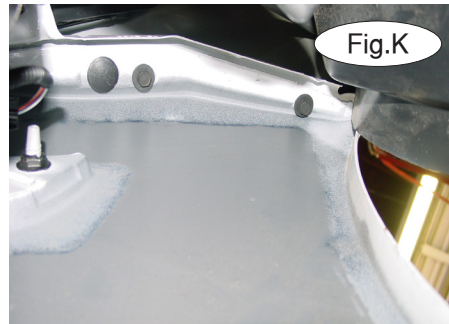


Fig.K

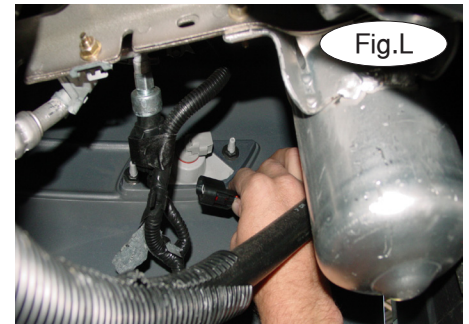


Fig.L

4. Remove one bolt (Torx 30) and two (10mm head) bolts from the fascia and the splash panel (Fig.H,J) then pull the splash panel back and remove three (10mm head) bolts holding the fascia at the fascia bumper junction (Fig.K) Repeat for the other side.
5. Disconnect the marker lights and fog lights (Fig.L,M)(if present) on each side then pull the bumper fascia forward and off (Fig.N). Set the fascia aside.

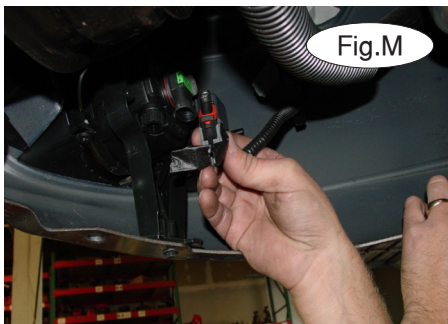


Fig.M



Fig.N



Fig.O

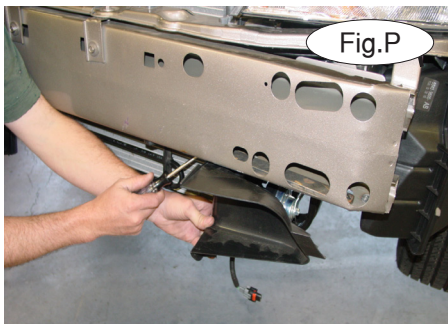


Fig.P

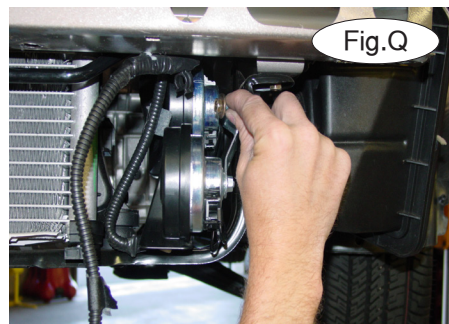


Fig.Q

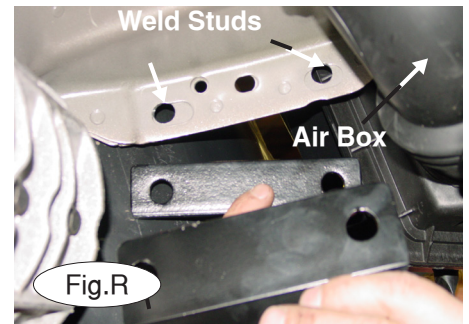


Fig.R

6. Remove the front bumper foam by drilling two rivets, one on each side (Fig.O).
7. Remove the radiator air deflectors, two plastic fasteners per deflector (Fig.P).
8. **On 2005 models only:** the horn assembly will have to be removed before installation begins. After installation re-mount the horn assembly using the supplied 6mm x 1.0 x 20mm bolt and 6mm lock nut (Fig.Q).
9. On the driver side locate two existing holes on the frame rail. (Note: weld studs will be located here, if present on this model. If weld studs are present, remove the three 10mm bolts used to mount the air box. Cut or grind to remove the weld studs.) Next, drill out these holes to 17/32" (Fig.R) and attach the mounting plate with 1/2" x 1 3/4" bolts, lock washers, and nuts. The formed plate goes on the inside and the backing plate on the outside. You may need to adjust the air conditioning line to make room for the receiver brace.

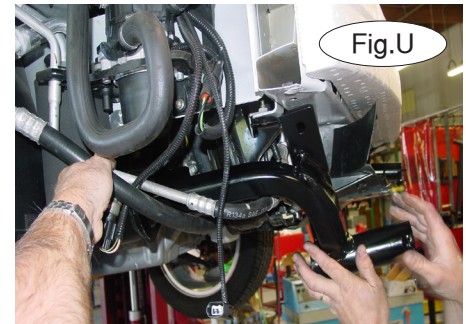
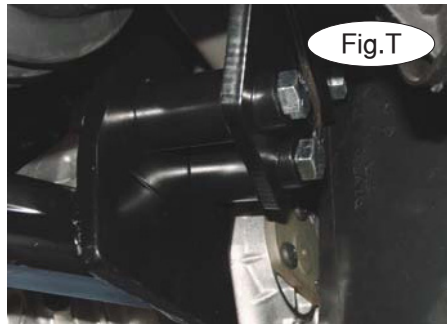
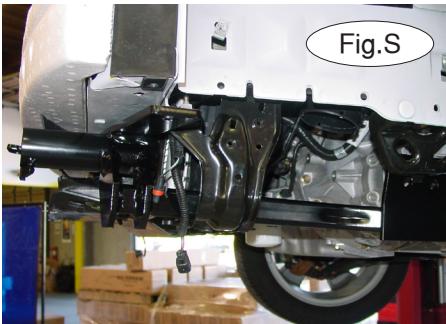


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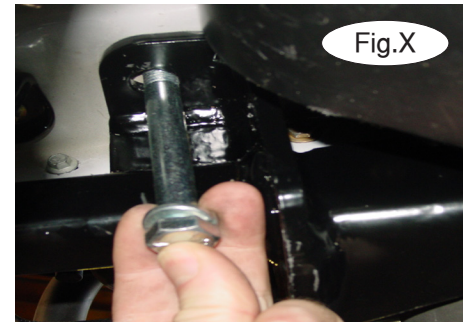
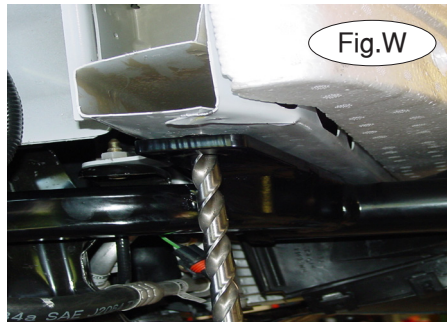
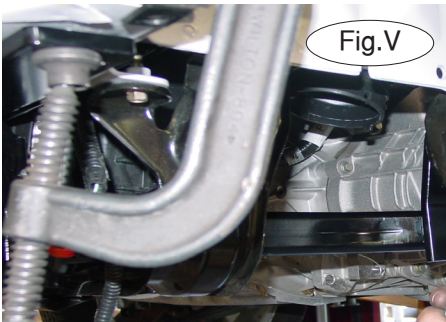
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10. Hold the driver side receiver brace in position with the front mounting plate under the bumper and align the two holes on the rear mounting plate of the receiver brace, with the two holes on the plate that was installed in the previous step (Fig.S). On the rear hole, bolt through with a $\frac{1}{2}$ " x 3" bolt, 1" O.D x $\frac{1}{2}$ " beveled spacer, 1 $\frac{1}{4}$ " O.D. x 1 $\frac{5}{16}$ " beveled spacer, lock washer, and nut. On the front hole bolt through with a $\frac{1}{2}$ " x 3 $\frac{1}{2}$ " bolt, 1" O.D. x $\frac{1}{2}$ " beveled spacer, 1 $\frac{1}{4}$ " O.D. x 1 $\frac{5}{8}$ " beveled spacer, lock washer and nut (Fig.T). Hand tighten for now.

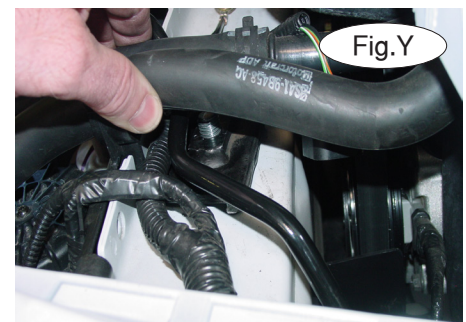
11. Repeat steps 9 and 10 on the passenger side (Fig.U) with the exception of bolting the rear brace plate to the outside of the existing tie down plate (the tie down is located between the motor belt cover and the accumulator for the air conditioning) and using the formed plate as a backing plate which fits in the tie down plate on the inside. Use $\frac{1}{2}$ " X 1 $\frac{3}{4}$ " bolts, $\frac{1}{2}$ " flat washers, formed backing plate, $\frac{1}{2}$ " clipped plate washers, lock washers and nuts.



12. Insert the front braces into the rear braces and lock into position. Measure across the front mounting holes and align to 30" O.C for the outer holes and 27" O.C on the inner holes. Also check for center. Once aligned, clamp the receiver braces in position (Fig.V).

13. On the passenger side, use the receiver brace as a template and drill through the frame from bottom to top with a long $\frac{1}{2}$ " drill bit (Fig.W). Check the top of the frame for lines and use a protective plate when drilling. *Note:* if there is a gap between the brace and the frame rail, use the supplied $\frac{3}{8}$ " x 1 $\frac{1}{2}$ " x 2" spacer.

14. Bolt through the brace and the frame with a $\frac{1}{2}$ " x 5 $\frac{1}{4}$ " bolt, lock washer and a threaded $\frac{1}{4}$ " x 2" x 3 $\frac{1}{2}$ " backing plate on top of the frame (Fig.X). Tighten until the lock washer is flat, about 40-ft. lb. *Note:* check and be sure none of the tubing and wiring will chafe against the backing plate or bolt (Fig.Y).





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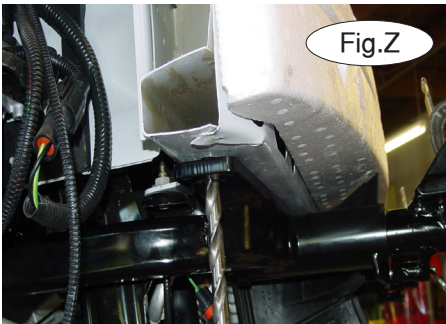


Fig.Z

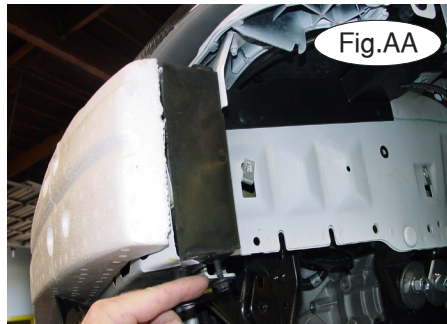


Fig.AA

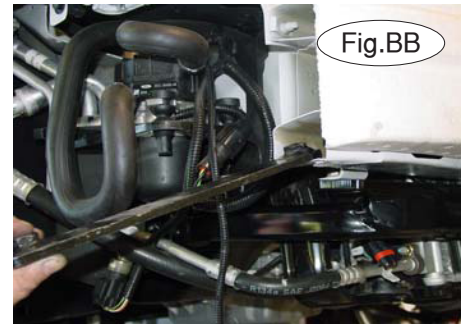


Fig.BB

15. Drill two more $\frac{1}{2}$ " holes through the bottom of the bumper core on each side using the front of the braces as drill templates (Fig.Z).

16. Remove the bumper core end plates if present (10mm head screws) (Fig.AA). Then insert $\frac{1}{4}$ " x $1\frac{1}{4}$ " x $11\frac{1}{8}$ " threaded backing plates into each end of the bumper core over the drilled holes (Fig.BB).

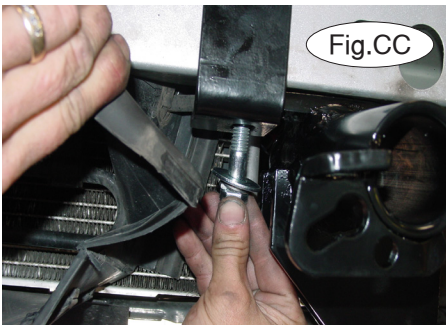


Fig.CC

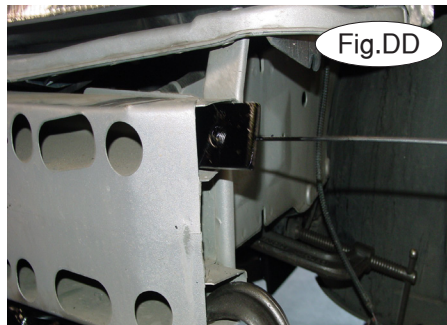


Fig.DD

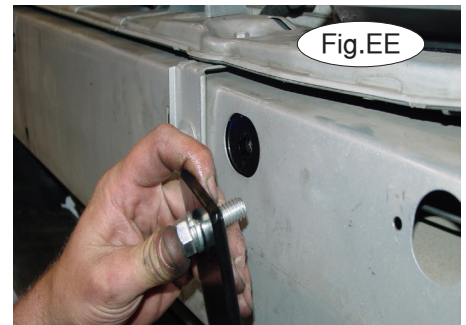


Fig.EE

17. Bolt through the outside mounting holes to the bumper core with $\frac{7}{16}$ " x 2" bolts, flat washers and lock washers then hold the L shaped upper brace over the inner mounting hole and bolt through it, the receiver brace and the bumper core with $\frac{7}{16}$ " x 2" bolts (Fig.CC).

18. Insert a $\frac{3}{16}$ " x $1\frac{1}{2}$ " x $2\frac{1}{2}$ " threaded backing plate into the bumper core (Fig.DD) and bolt through the top of the upper brace with a $\frac{1}{2}$ " x $1\frac{1}{4}$ " bolt and lock washer into the threaded backing plate (Fig.EE).

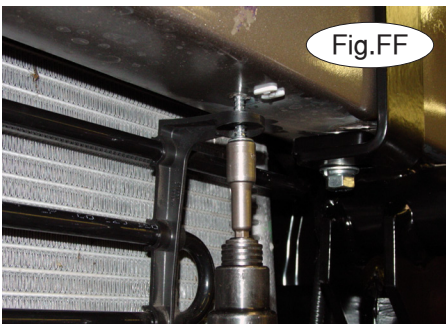


Fig.FF

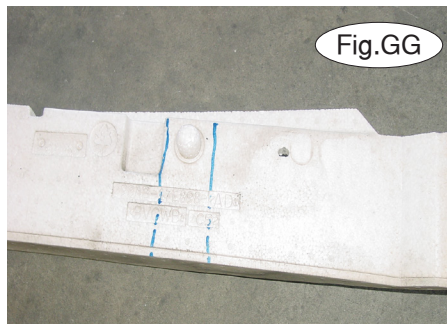


Fig.GG



Fig.HH

19. Using the supplied $\frac{1}{4}$ " x $\frac{3}{4}$ " self tapping screws, remount the power steering cooling line approximately $\frac{1}{2}$ " further back to allow clearance for the rear of the receiver tubes (Fig.FF).

20. Tighten all mounting bolts to the torque specifications below then remove the front braces.

21. The radiator air duct sides will be bent in between the braces at this point. You may leave it this way or trim the side flaps to fit around the braces. If you choose to trim them, do so now .

22. Trim the energy absorption foam to fit around the upper braces (Fig.GG).

23. Replace the air filter box and plenum reversing steps 5 through 6 (with exception of the front of the plenum which will be left off). *Note:* this only applies to the 2005 models (Fig.HH).

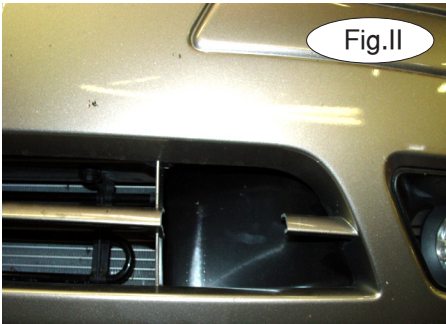


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24. Trial fit the fascia then mark and cut the grille to clear the braces (Fig.II).
25. Refit the fascia reversing steps 2 through 9 (Fig.JJ)
26. Install the tubular front braces by holding them with the front mounting angles pointing up, push in until engaged then twist 90 degrees to the outside of the vehicle. Lock in place with provided safety pins (Fig.KK).
27. Mount the tow bar following the manufacturer's instructions then torque all mounting bolts to the specifications below.
28. Attach one end of the included 10" safety cables to the rear hole in the side mounting plate on each of the tubular receivers with the included cable connectors. Connect the other end to the tow vehicle's safety cables and the tow bar.

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.