



BASEPLATE KIT INSTALLATION INSTRUCTIONS

KIT# 523229-5

07/2024
RS

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

A second person to help
Ratchets
7mm, 13mm, 15mm sockets
10mm wrench
9/16" and 3/4" wrenches

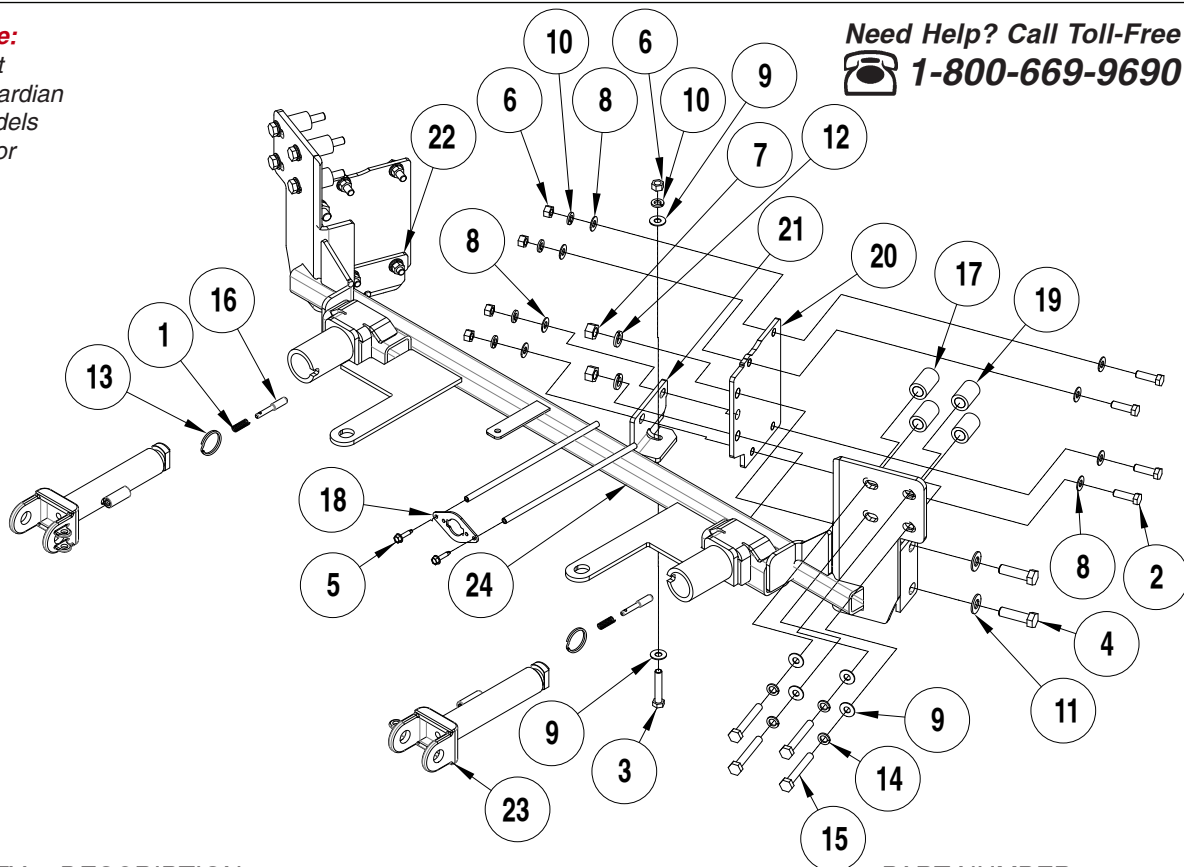
What You'll Need
and sockets
T15 driver
13/32" bit and drill
Needlenose pliers
Permanent marker

Panel tool
Flathead screwdriver
Utility knife or reciprocating saw
Torque wrench
Loctite© Red or Blue

Important Note:

This baseplate will not accommodate the Guardian rock shield, some models of the Tow Defender, or StowMaster tow bars.

Need Help? Call Toll-Free
 1-800-669-9690



ITEM	QTY	DESCRIPTION	PART NUMBER
1	2	SPRING	200146-00
2	8	3/8" x 1 1/4" BOLT	350056-00
3	2	3/8" x 2" BOLT	350059-00
4	4	1/2" x 1 3/4" BOLT	350096-00
5	2	#10 x 3/4" SELF DRILLING SCREW	350247-35
6	10	3/8" HEX NUT	350254-00
7	4	1/2" HEX NUT	350258-00
8	16	3/8" SAE WASHER	350304-50
9	12	3/8" FLAT WASHER	350304-00
10	10	3/8" LOCK WASHER	350305-00
11	4	1/2" SAE WASHER	350308-20
12	4	1/2" LOCK WASHER	350309-00
13	2	RING	350520-00
14	8	M10 LOCK WASHER	355715-00
15	8	M10 x 1.5 x 75 mm BOLT	356114-00
16	2	LOCK PIN	A000008
17	4	1" O.D. x 1 5/8" SPACER	A001442
18	1	WIRE PLUG PLATE	A003801
19	4	1" O.D. x 1 1/2" SPACER	A002898
20	2	PLATE	A006423
21	1	DRIVER SIDE BRACE	B003969
22	1	PASSENGER SIDE BRACE	B003970
23	2	ARM	C002383
24	1	MAIN RECEIVER	C003819



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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.

About this kit:

This is one of our direct connect-style series, which allows the visible front portion of the baseplate to be easily removed from the front of the vehicle (Fig.A and Fig.B).

This kit consists of a main receiver brace, two rear support braces, two removable front braces, and a hardware pack.

The main receiver brace mounts to the frame and side braces on each side. 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.





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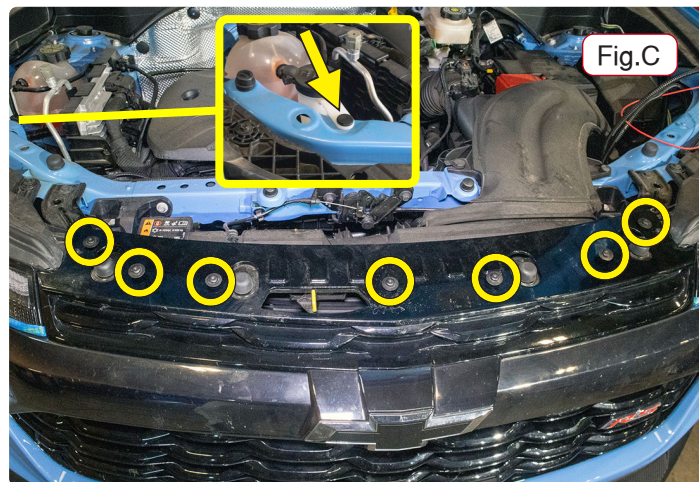
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Important: Please use all supplied hardware and read through these instructions carefully before beginning this installation. The majority of questions you may have can be answered within the text, and proper installation will ensure safe and secure travel.

1. Disconnect the battery. Remove seven T15 screws attaching the top of the fascia to the subframe, three on the passenger side and four on the driver side (Fig. C, Circles). Then remove a plastic clip attaching the wiper fluid bottle to the subframe (Fig. C, Inset Arrow).



2. Remove twelve T15 screws, six on each side, attaching the fascia to the bottom of the subframe (Fig. D, one side shown, screws shown removed).

3. Then, on each side, turn the tire inward and remove four T15 screws (circles) and one plastic clip (arrow) attaching the fender liner to the fascia (Fig. E).

4. On each side, pull out on the fender liner and release clips until it reveals the upper 7mm screw. Use a soft cloth to hold the fender liner out. Remove the 7mm screw. *Note: It may be helpful to reach behind the fender and squeeze the clips with a pair of needle nose pliers.* (Fig. F).



5. On the passenger side, reach into the front fender area and uncouple and unclip the wire harness (Fig. G, Next Page).

6. With the help of a second person; pull up and out along the fender seam to release and remove the fascia from the subframe, set it aside for now (Fig. H, Next Page).

7. On each side, utilize an utility knife or reciprocating saw to separate the lower air dam as shown, using the yellow line in Figure I1 as a reference. Then, use a flathead screwdriver or





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Fig.G

panel tool to release the clip and pull straight out to remove it. It will not be replaced.

8. On each side, carefully trim the upper intercooler end cap as indicated in Figure I2.

9. **Working on the passenger side only;** disconnect all of the wiring harnesses and fluid lines for the washer bottle. *Note: When disconnecting the fluid lines, be prepared to cap the outlet lines to eliminate fluid loss.* Then, remove two 10mm nuts and one 10mm bolt attaching the washer bottle to the frame and carefully set it aside (Fig. J and Inset).

10. **On the passenger side;** disconnect the air flow sensor for the intercooler and let it hang down for now. Make sure to also disconnect the two wire plugs that hold the sensor wire in place (Fig. K1 and K2, Next Page).

11. **Working on the driver's side only, for now;** remove two 10mm nuts attaching the computer box to the frame. Then, use a flathead screwdriver to pop out the plastic clip. Use a bungee cable, or similar, to hold back the computer box for now (Fig. L and Inset, Next Page).

12. **On the driver's side,** reference the diagram on the front page to locate one of the two plates. Hold it in place as shown in figure M and use a marker or paint to mark the two upper mounting holes in the pinch weld for drilling (Fig. M). *Note: The raised edge of the plate should align with the*



Fig.H

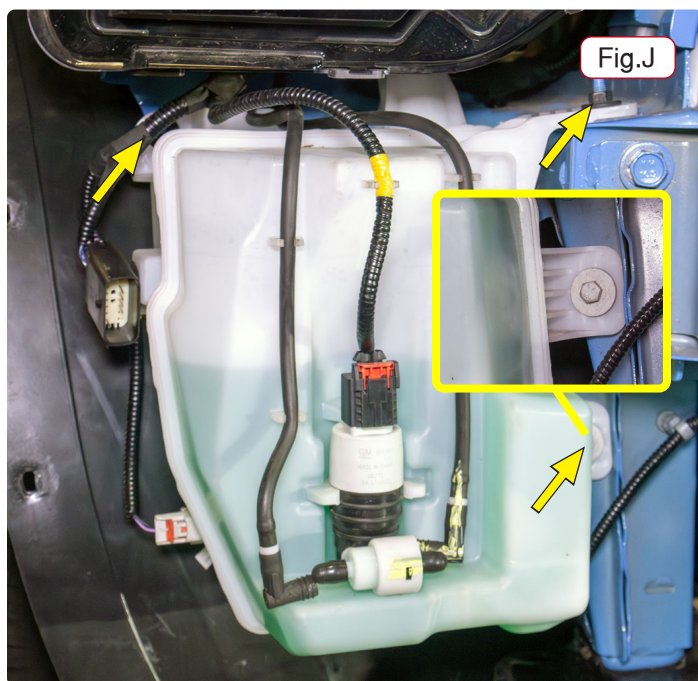


Fig.J

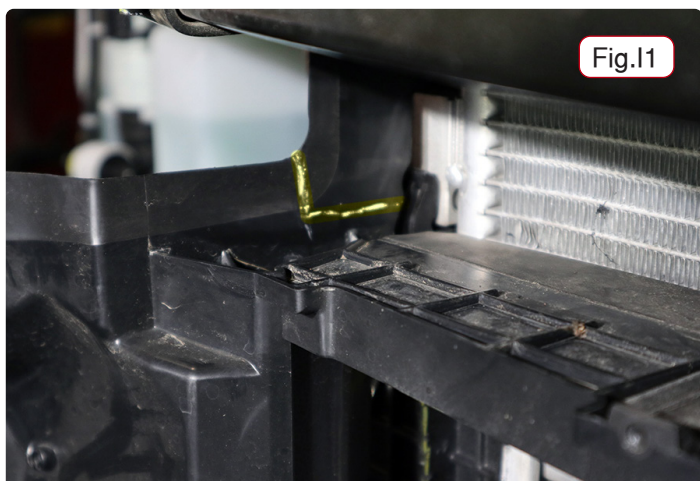


Fig.I1

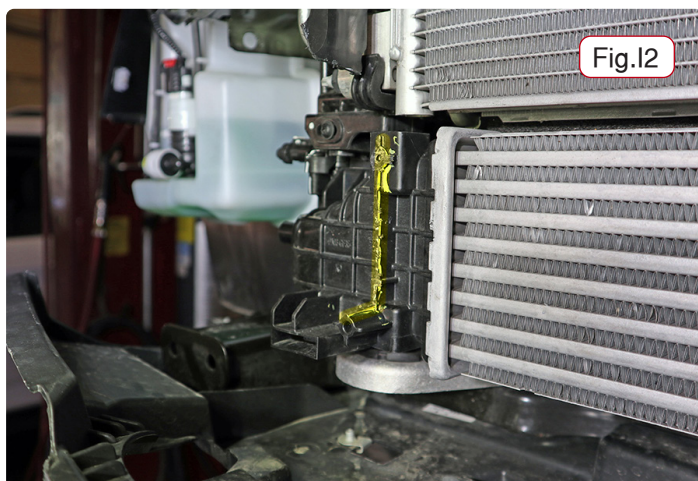


Fig.I2

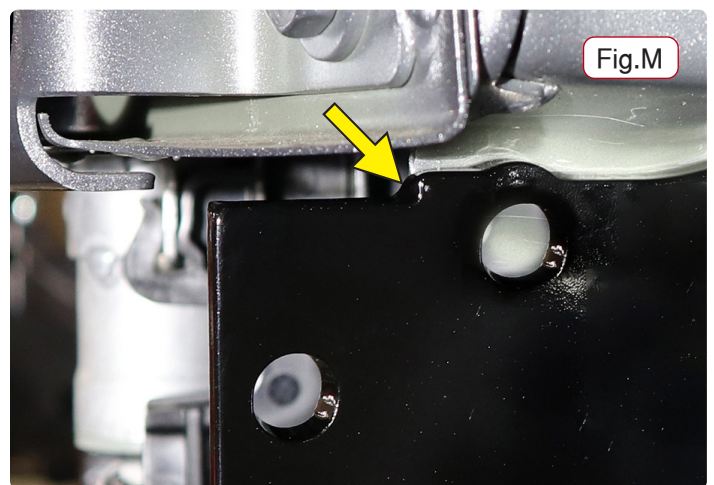
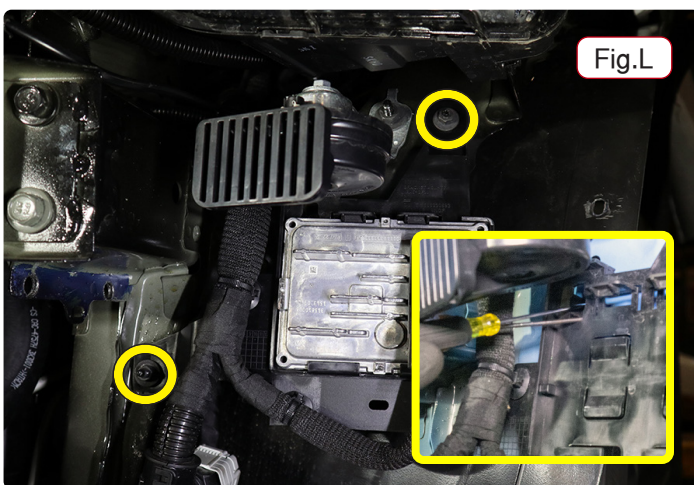


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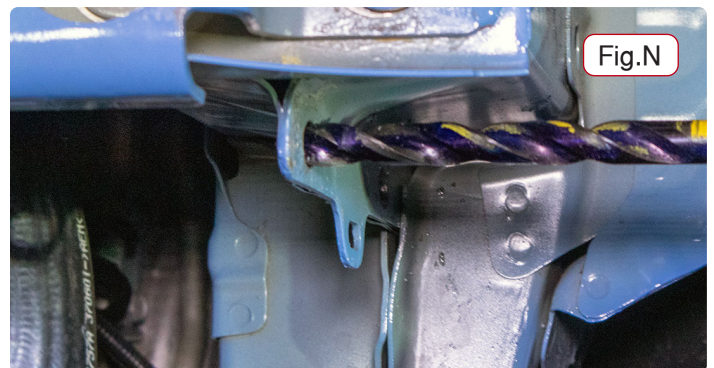


forward edge of the pinch weld.

13. Use a 13/32" drill bit and drill to drill out the two holes that were marked in the prior step (Fig. N).

14. **Working on the driver's side;** use the diagram on the front page and locate the side-specific brace (Item 21) and plate. Place two of the supplied 3/8" x 1-1/4" bolts with SAE washer through the upper side-specific plate and pinch weld holes that were drilled in the previous step. Finish the bolts with 3/8" washer, 3/8" lock washers and 3/8" nuts (Fig. O1).

15. Then, place two 3/8" x 1-1/4" bolts and 3/8" SAE washer through the brace and into the plate above it. Finish with a





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3/8" SAE washer, lock washer, and nut. Finger tighten for now (Fig. O2, Prior Page).

16. Finally, place through the bottom of the subframe into the side-specific brace with a 3/8" x 2" bolt, 3/8" flat washer finished with a 3/8" flat washer, lock washer, and nut. Keeping things finger tight for now (Fig. O3).

17. Remove the four 15mm bolts attaching the bumper core to the frame (Fig. P, Shown Removed).

18. Insert two of the 1" O.D. x .188 wall x 1-5/8" spacers over the innermost holes that were exposed in the prior step (Fig. Q).

19. Place a M10 lock washer and 3/8" flat washer over four M10 x 1.5 x 75mm bolts. With the assistance of another person, lift the baseplate over the bumper core and pass the M10 bolts through the baseplate and the piper spacers, installed in prior step, then thread the bolts in just another to hold the baseplate in place. Keeping things finger tight for now (Fig. R).

20. On the two outermost holes on each side, place a 1" O.D. x .188 wall x 1-1/2" pipe spacer between the bumper core and the baseplate. Then, bolt through the baseplate, the piper spacer and into the bumper core mounts using the two remaining M10 bolts, M10 lock washers, and 3/8" flat washers (Fig. S).

21. Bolt the plate to the main receiver (the baseplate) using the supplied 1/2" x 1-3/4" bolts and 1/2" SAE washers and finish with 1/2" lock washers and 1/2" nuts. Place a 3/8" flat washer and threadlocker over a 3/8" x 2" bolt and bolt up through the existing hole in the bottom of the subframe, through the lower mount, and finish with a 3/8" flat washer, 3/8" lock washer and 3/8" nut (Fig. T, Next Page).

22. Then do the same as steps 13 to 22 but for the passenger side. Once complete, then tighten all bolts to the torque requirements found at the end of these instructions. Figure U, next page, shows an ideal order of operations for tightening these bolts to prevent issues with installation. *Note: Use threadlocker on all nuts and bolts!*

23. If you are using our Breakway system, use the included

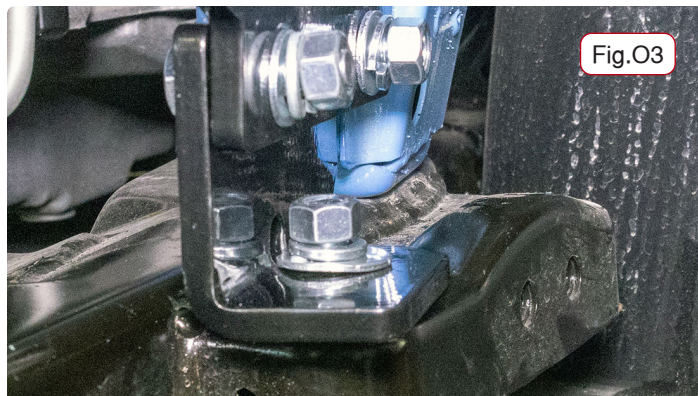


Fig.O3

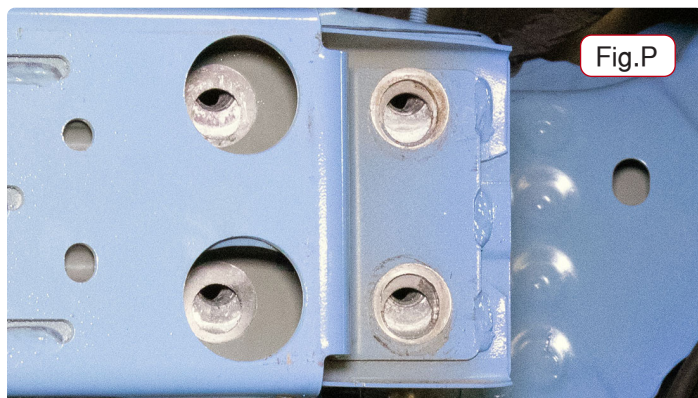


Fig.P

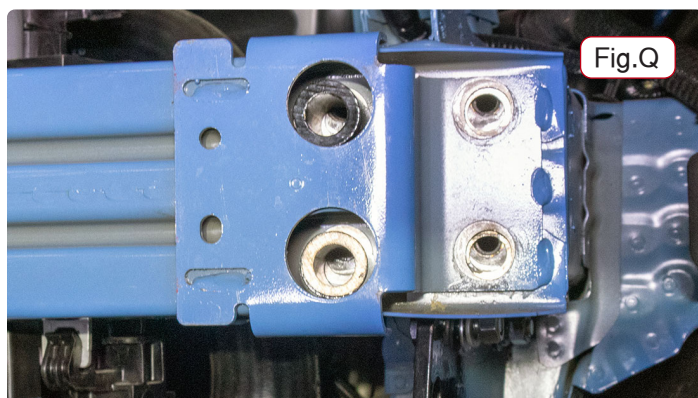


Fig.Q

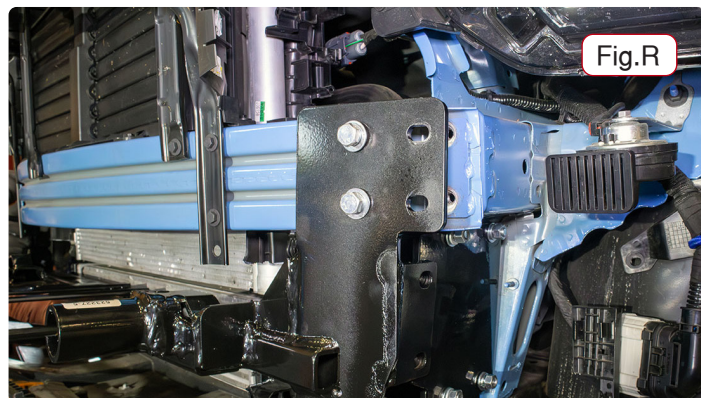


Fig.R



Fig.S

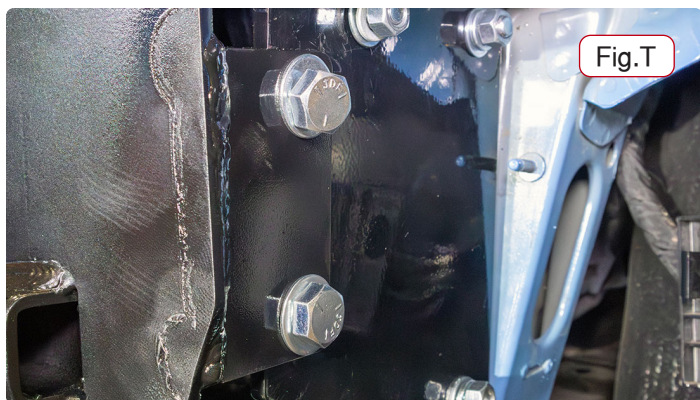


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mount as shown in Figure V.

24. Hold the fascia up to the vehicle and mark it for trimming to allow clearance for the receivers, safety cable tabs and the Brakeaway mount, if applicable (Fig. W1 and W2).

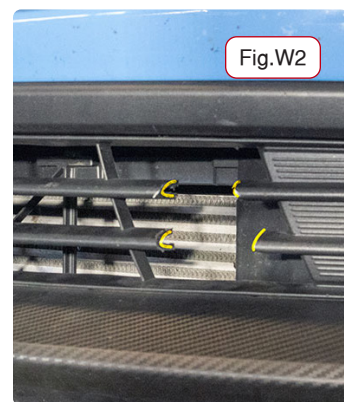
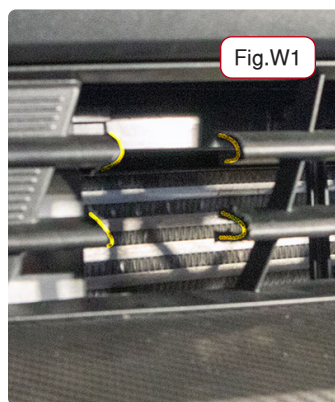
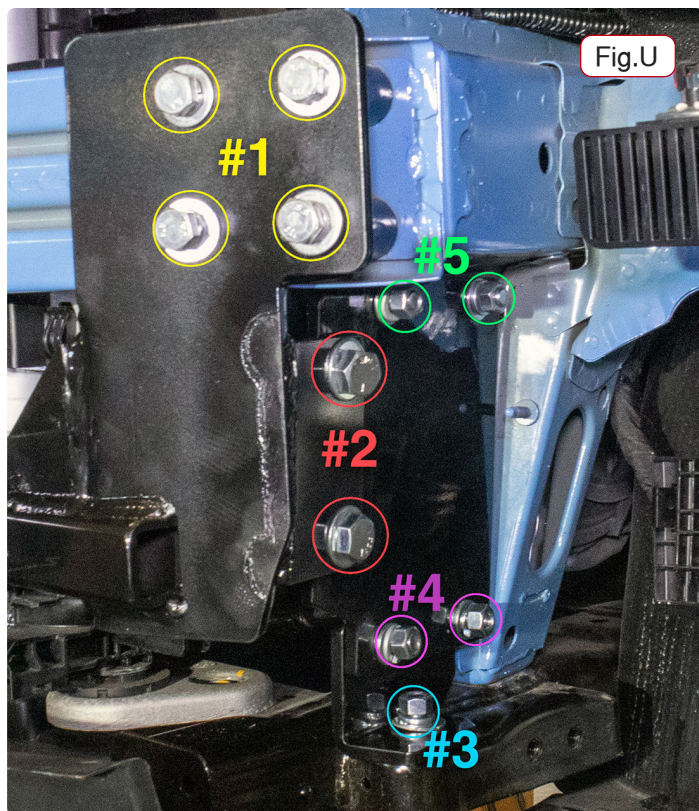
25. Trim the foam shock absorption pad and fascia as indicated in Figure X and Insets show before cutting.

26. Reconnect the computer on the drivers side.

27. Reconnect the washer bottle and air flow sensor.

28. Reinstall the fascia, reversing the steps used to remove it.

Important: Please note, it is the owner's responsibility to ensure the locking of the pins before towing. Otherwise, failure of the towing system will result.





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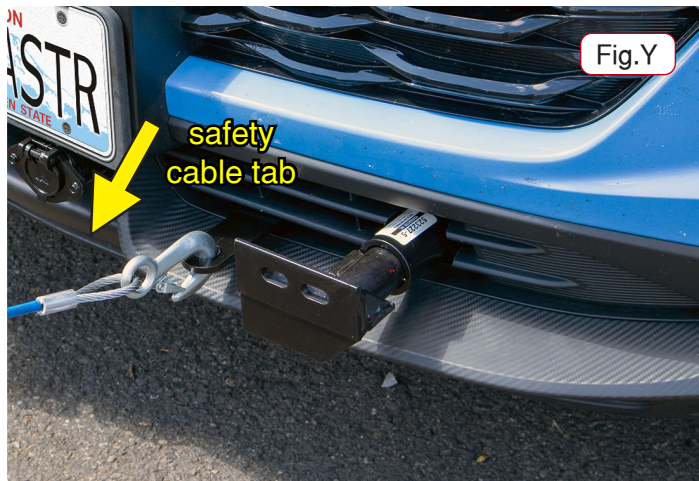
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IMPORTANT!

Safety cables are required by law. When towing, connect safety cables to the safety cable tabs illustrated on the separate insert with the drawing and parts list and in Figure Y. Make certain there is adequate slack in the cables to allow a full turning radius; otherwise, damage will result. If necessary, longer cables or cable extensions are available.

WARNING!

If you do not use Loctite Threadlocker Red on all bolts in this kit and torque to the specified values, it could cause failure of the towing system.



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.

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

For six-wire plugs: Use the two supplied 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 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 3/4" self-tapping screws to attach the mounting plate to the rods on the front of the main receiver brace.

