



BASEPLATE KIT INSTALLATION INSTRUCTIONS

KIT# 524475-5

09/24
RS

ROADMASTER, Inc.

6110 NE 127th Ave.

Vancouver, WA 98682

360-896-0407

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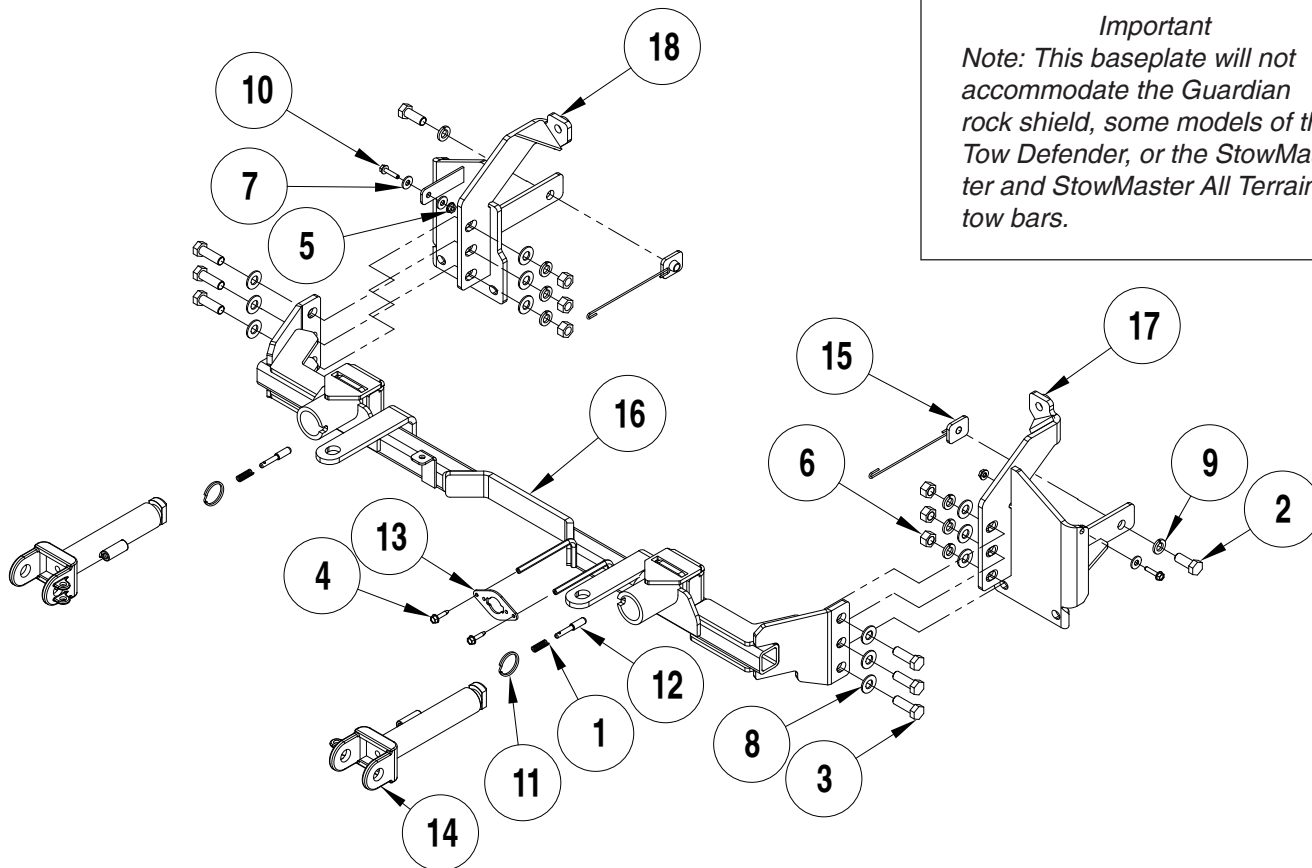
What You'll Need

Ratchets
7, 8, 10, 13 and 15mm sockets
3/4" and 3/8" sockets
11mm, 3/8", 3/4" wrenches
T30 driver

Drill
Panel tool
Small flathead
screwdriver

2 1/4" hole saw
Reciprocating saw
Permanent or paint marker
Torque wrench
Loctite© Blue or Red

*Important
Note: This baseplate will not
accommodate the Guardian
rock shield, some models of the
Tow Defender, or the StowMas-
ter and StowMaster All Terrain
tow bars.*



ITEM	QTY	DESCRIPTION	PART NUMBER
1	2	SPRING	200146-00
2	2	1/2" x 1 1/4" BOLT	350094-00
3	6	1/2" x 1 1/2" BOLT	350095-00
4	2	#10 x 3/4" SELF DRILLING SCREW	350247-35
5	2	1/4" WHIZ NUT	350251-20
6	6	1/2" HEX NUT	350258-00
7	3	1/4" FLAT WASHER	350300-00
8	12	1/2" SAE WASHER	350308-20
9	8	1/2" LOCK WASHER	350309-00
10	2	1/4" x 1" WHIZ BOLT	350400-20
11	2	RING	350520-00
12	2	LOCK PIN	A-000008
13	1	WIRE PLUG PLATE	A-003801
14	2	ARM	C-002383
15	2	1 1/4" x 1 1/2" THREADED BACKING PLATE W/ 6" ROD	C002077
16	1	MAIN RECEIVER	C003774
17	1	DRIVER SIDE BRACE	C003826
18	1	PASSENGER SIDE BRACE	C003827



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This is one of our direct-connect 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 two side braces, a crossbar, two removable front braces, and a hardware pack.

The braces mount to the frame and the crossbar. 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 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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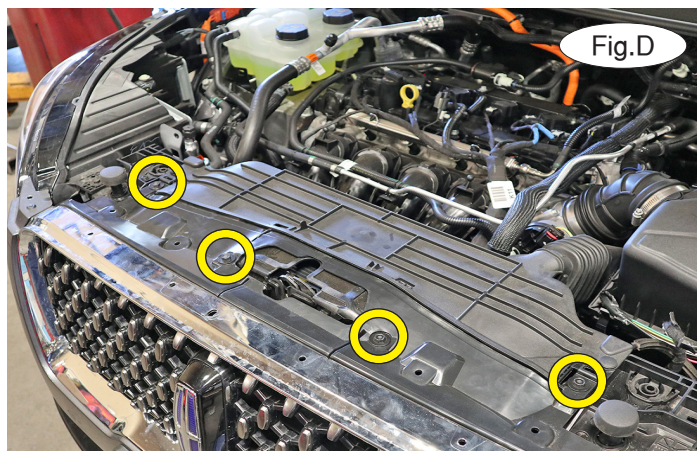
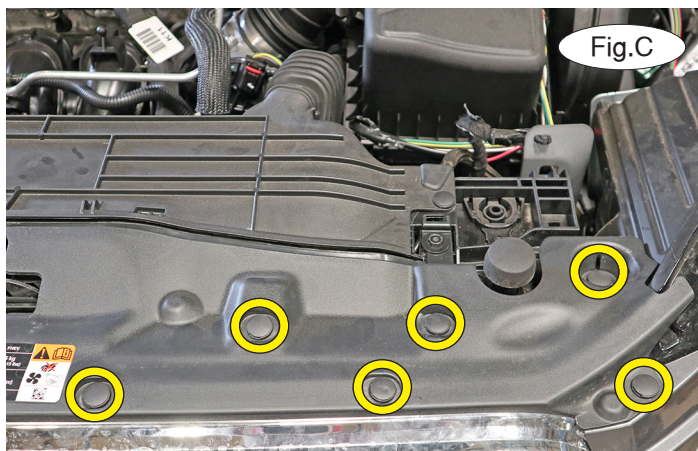
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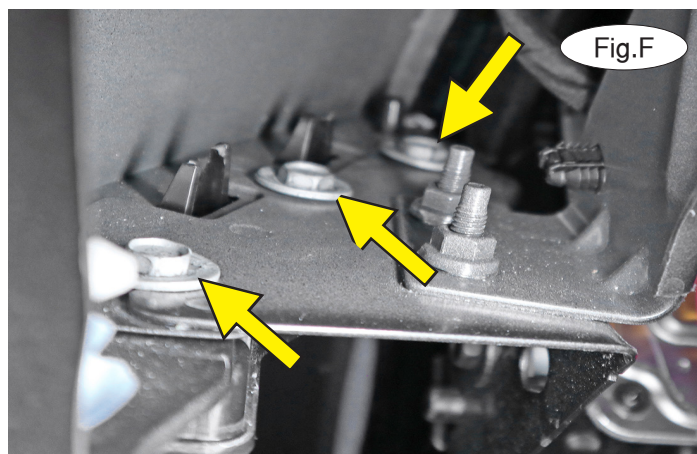
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Important: Please use all supplied bolts and parts and read all instructions carefully before beginning this installation. The majority of questions you may have can be answered within the text, and proper installation will ensure safe and secure travel.

1. On each side, remove six plastic fasteners attaching the radiator cover to the core support (Fig.C).
2. Remove four 10mm bolts attaching the top of the fascia to the radiator housing (Fig.D).
3. On each side, remove seven plastic fasteners attaching the fender well and fender trim to the fascia (Fig.E).



4. On each side, pull down the fender liner and remove three 10mm bolts attaching the fascia to the fender (Fig.F).
 5. On each side, peel back the fender trim about halfway and use a soft rag to prop it away from the vehicle (Fig.G). Then, on the passenger side only, disconnect the large wiring harness, the washer fluid line and front camera line (Fig.H).
- IMPORTANT! Under no circumstances should you unplug any of the orange-taped, high voltage harnesses.**





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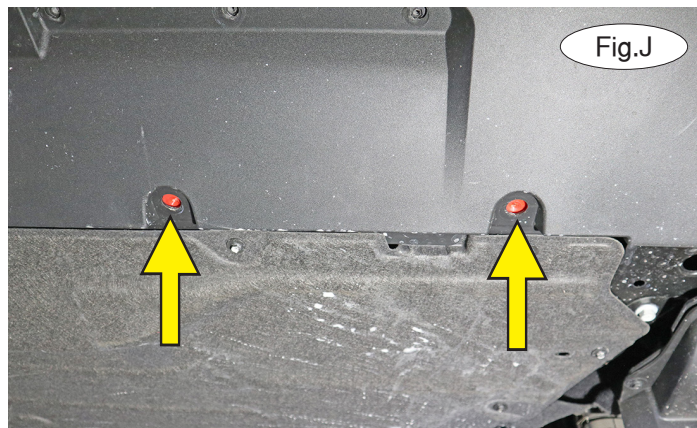
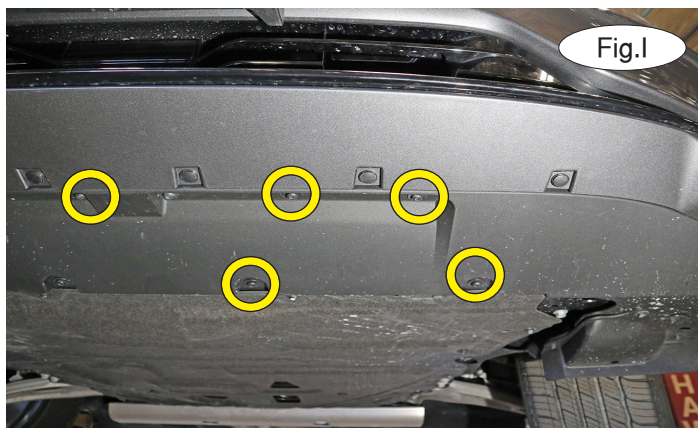
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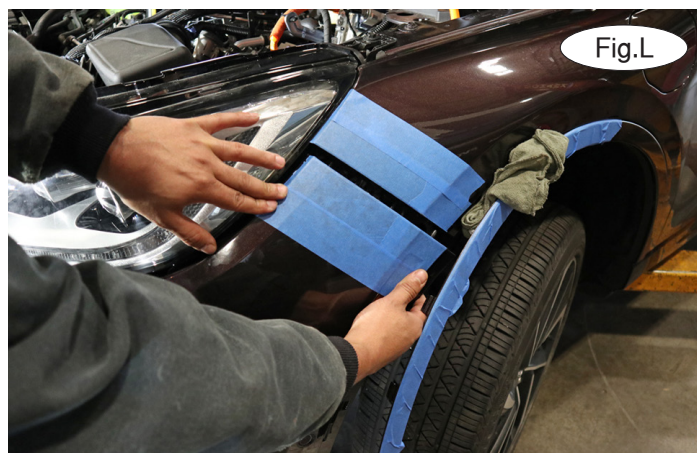
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6. On each side, remove five T30 torx screws attaching the lower splash shield to the subframe (Fig.I). Then, remove two 7mm bolts attaching the splash shield to the fascia (Fig.J).

7. On each side, apply downward pressure to the fascia to open the seam and then very carefully use a small flathead screwdriver to release the clips (Fig.K) and then pull down to release the fascia at the seam (Fig.L). Then, push forward on the fascia and release the retaining clip over the radiator (Fig.M). Set the fascia aside for now.



8. On each side, remove one plastic fastener attaching the air deflector to the radiator housing (Fig.N). Around the deflector, release eight clips as shown (Fig.O – next page) and set the housing aside. It will not be replaced.





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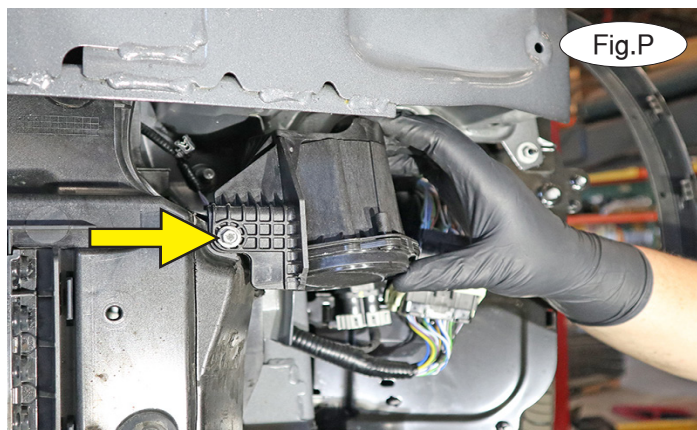
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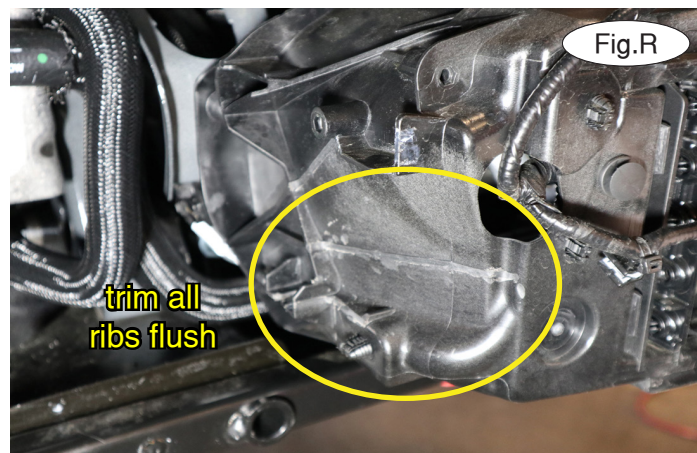
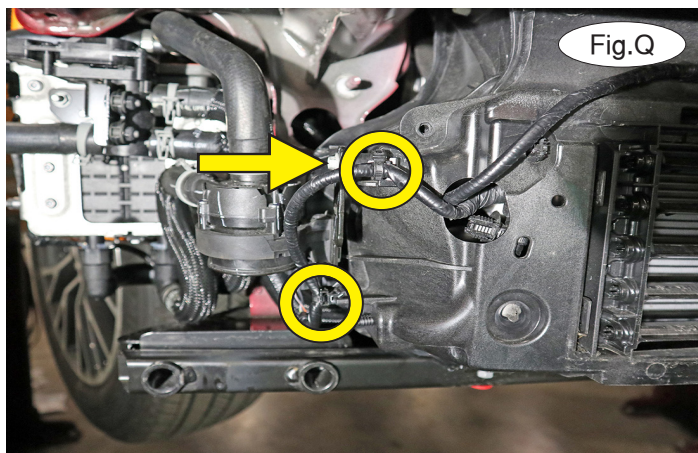
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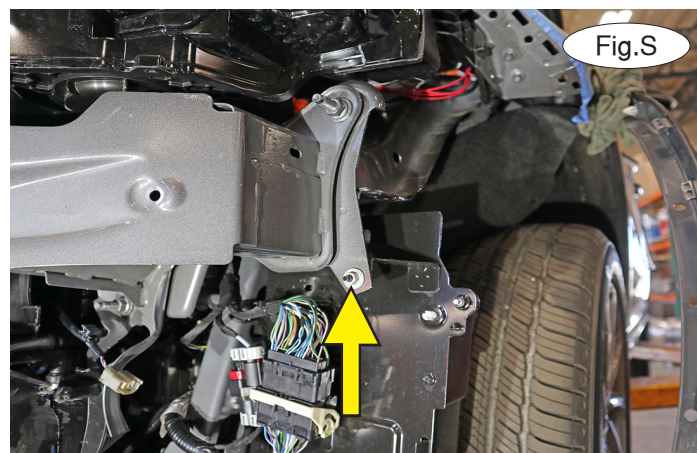
9. **If your vehicle does not have a pedestrian alert device (PAD):** Proceed to the next step. **If your vehicle has a PAD:** On the driver's side only, remove one 8mm screw attaching the PAD (Fig.P). Pull outward to release the retaining clip. Unplug the sensor and set it aside for now. Then, unclip the PAD harness from behind the radiator housing to extend its length for a future step.

10. Unplug the air switch pump and unclip the harness from the shutter housing (Fig.Q – circles). Then, remove one 8mm screw (Fig.Q – arrow) attaching the air pump to the shutter housing and pull out to release it. Let it hang down for now.



11. On each side, trim the shutter housing flush as shown to allow clearance for the main receiver brace (Fig.R – passenger side).

12. On the driver's side only, remove one 10mm nut attaching the computer box to the frame (Fig.S) and then push rearward to temporarily move it out of the way.





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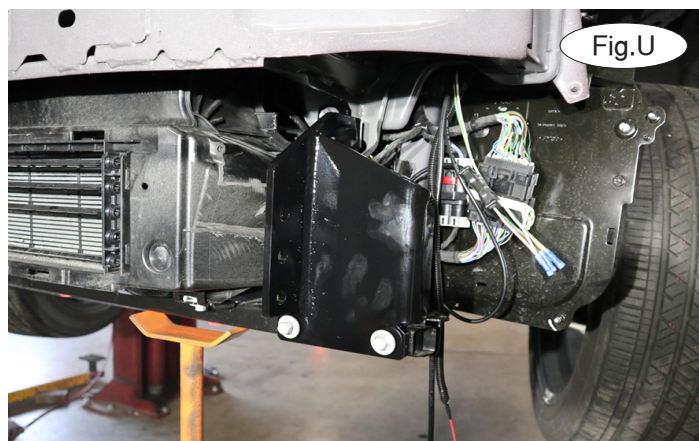
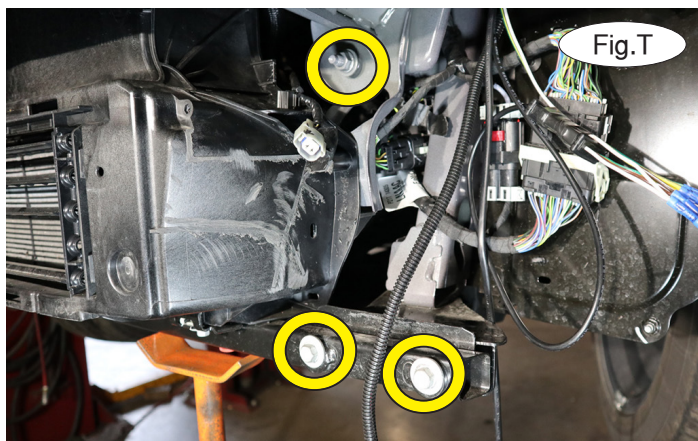
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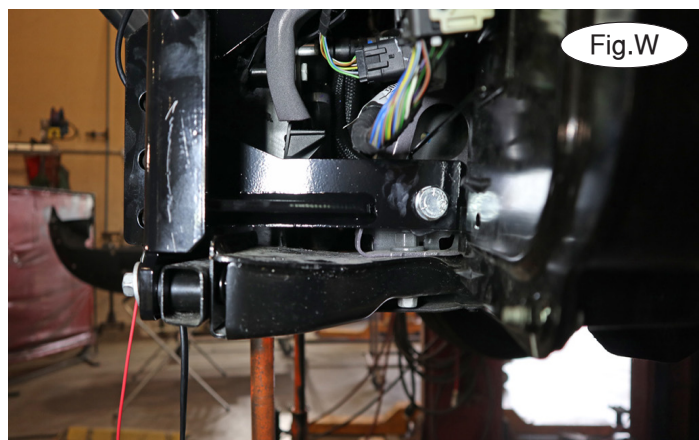
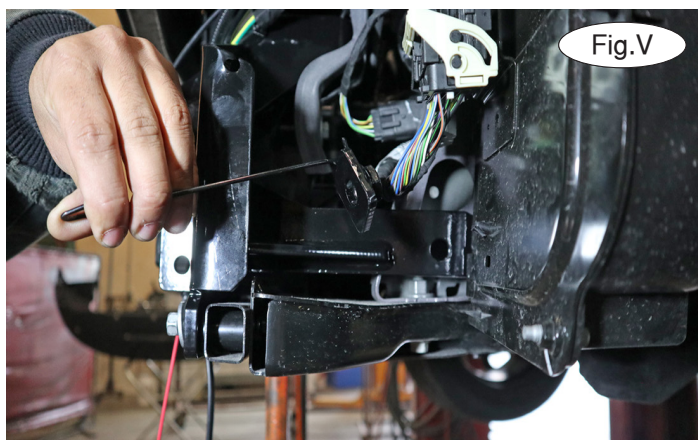
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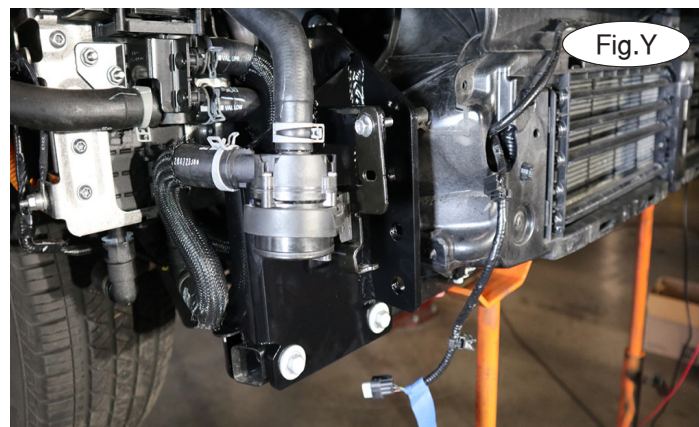
13. On each side, remove two 13mm bolts and one 15mm nut attaching the lower radiator support to the subframe (Fig.T).

14. Use a floor jack to support the subframe. Place the side-specific braces over the mounts you exposed in step 13 and replace the 15mm nuts and 13mm bolts (Fig.U). *Note: Use Loctite on the nut and bolts and torque them.*



15. Prepare two $\frac{1}{2}$ " x $1\frac{1}{4}$ " bolts with $\frac{1}{2}$ " lock washers and Loctite. Then, locate the two $\frac{3}{16}$ " x $1\frac{1}{4}$ " x $1\frac{1}{2}$ " threaded backing plates. On each side, place one of the plates up into the frame member behind the rear mounting hole of the brace (Fig.V). Then, bolt through the side-specific brace and into the backing plate. Tighten the bolt to the bolt torque requirements found at the end of these instructions (Fig.W). Bend the rod backward, or snap it off.

16. On the passenger side only, remove two retainer clips from the air pump mounting bracket (Fig.X). On the passenger side only, place a 6mm washer over a $\frac{1}{4}$ " x 1" bolt. Pass the bolt through the air pump mount and through the included tab on the brace. Finish with a 6mm washer and $\frac{1}{4}$ " whiz nut (Fig.Y).





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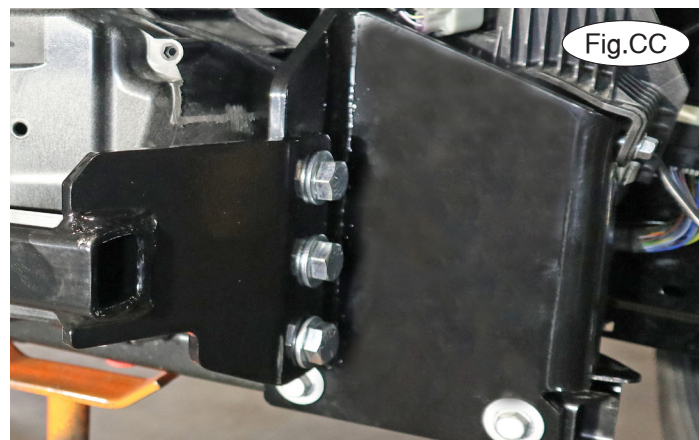
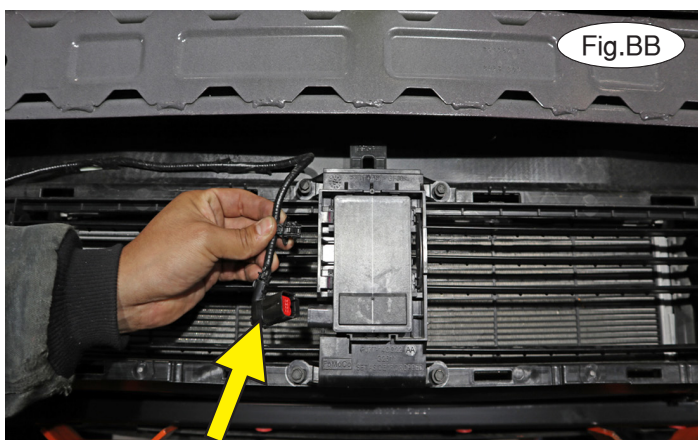
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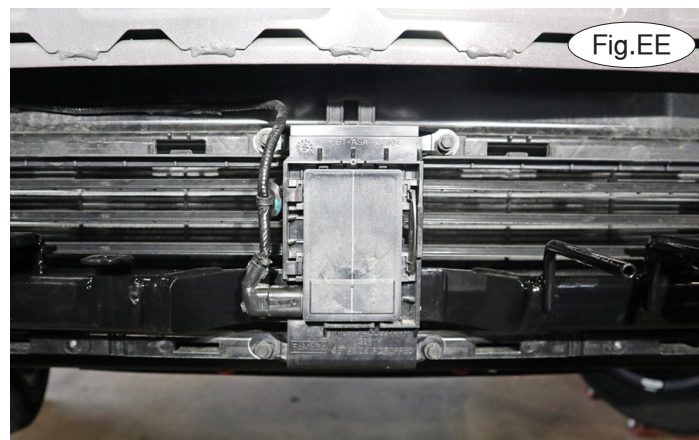
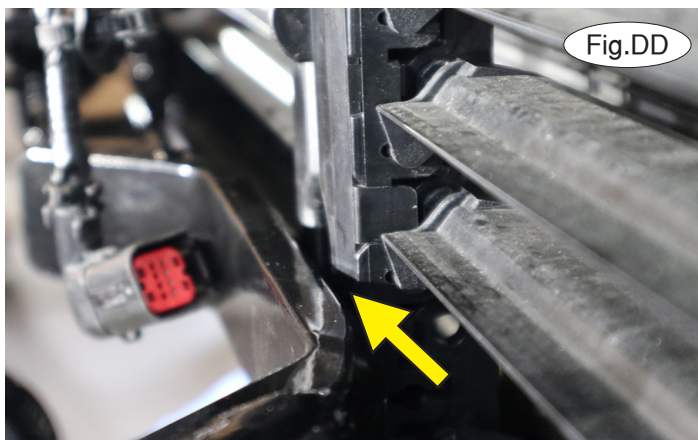


17. On the driver's side only, trim off the gusset on the back of the PAD mount, using the yellow lines in Figure Z as a guide. Then, reinstall the PAD by running its wiring through the gap between the frame and the baseplate. Bolt it into place on the side brace using a supplied $\frac{1}{4}$ " x 1" whiz bolt and $\frac{1}{4}$ " flat washer. Then, finish with a $\frac{1}{4}$ " whiz nut (Fig.AA).

18. **If the vehicle does not have ACC:** Proceed to the next step. **If the vehicle has ACC:** Disconnect the wiring harness on the ACC sensor (Fig.BB – arrow). Then, trace the outline of the four 8mm bolts before removing them (Fig.BB). This will ensure proper alignment when you replace the unit in the next step.



19. Place six $\frac{1}{2}$ " small flat washers over six $\frac{1}{2}$ " x $1\frac{1}{2}$ " bolts. With the assistance of a second person, place the crossbar around the side-specific brace mounts and then bolt it to the side-specific brace on each side using three of the $\frac{1}{2}$ " bolts. Finish the bolts with $\frac{1}{2}$ " lock washers and $\frac{1}{2}$ " nuts (Fig.CC). **Note: If the vehicle is equipped with ACC, under no circumstances should the mount touch the baseplate. Figure DD shows proper spacing. Now, ensure that the lower mount of the ACC is nested into the cutout on the baseplate and replace it by reversing step 18 (Fig.EE).**





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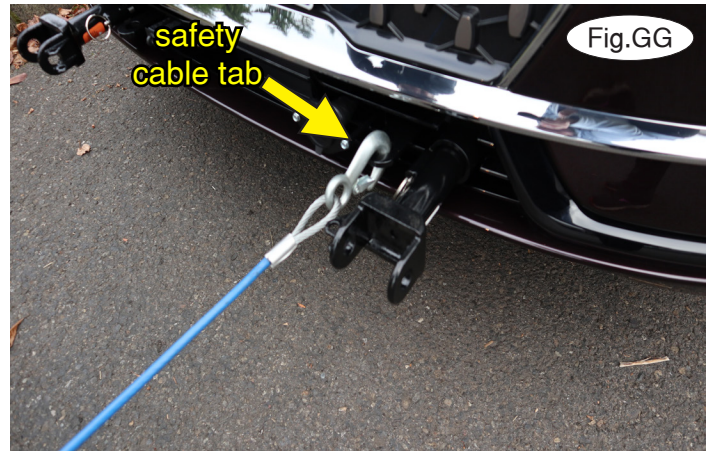
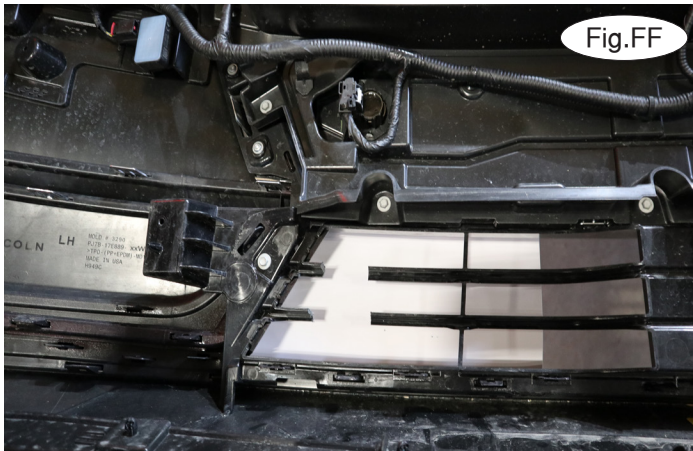
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20. If you are using a Brakeaway switch, bend the tab 90 degrees and mount it to the provided tab on the passenger side of the vehicle.

21. On each side, trim the fascia as shown in Figure FF.

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

23. On each side, insert the removable front arm into the front receiver 90 degrees from its final towing position, depressing the spring-loaded pin against the receiver. Twist back 90 degrees until the spring-loaded pin snaps into place in the notch on the receiver, locking the arm into place in its final towing position. **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.**

24. Install the tow bar to the baseplate, according to the manufacturer's instructions.

IMPORTANT!

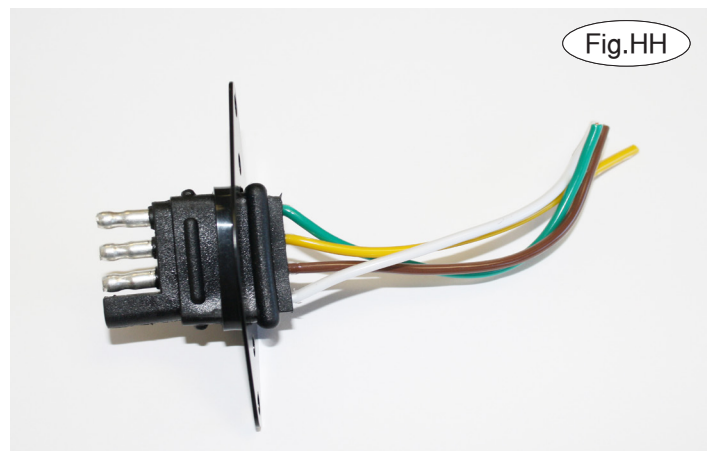
Safety cables are required by law. When towing, connect safety cables to the safety cable tabs illustrated on the first page and in Figure GG. Make certain there is adequate slack in the cables to allow a full turning radius; otherwise, damage will result. If necessary, longer cables or cable extensions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

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.HH). 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.





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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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