



# BASEPLATE KIT INSTALLATION INSTRUCTIONS

**KIT# 2507-3**

11/2025  
MS

ROADMASTER, Inc.

6110 NE 127th Ave.

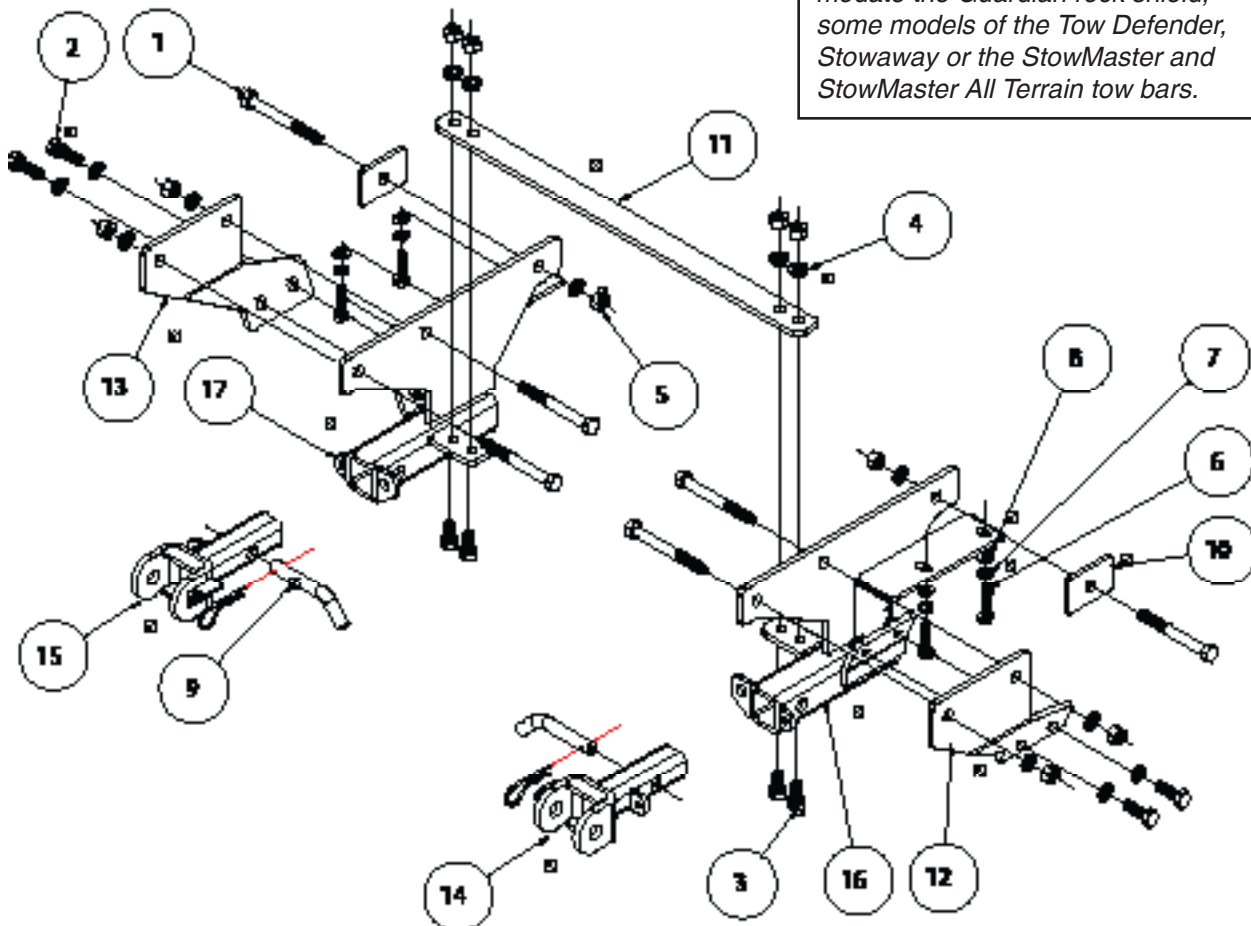
Vancouver, WA 98682

360-896-0407

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	MATERIAL
1.....	6	1/2" x 4 1/2" BOLT	350106-00
2.....	4	1/2" x 1 1/2" BOLT	350095-00
3.....	4	1/2" x 1 1/4" BOLT	350094-00
4.....	14	1/2" LOCK WASHER	350309-00
5.....	10	1/2" HEX NUT	350258-00
6.....	4	M10 x 1.5 x 40mm BOLT	356103-00
7.....	4	M10 LOCK WASHER	355715-00
8.....	4	M10 FLAT WASHER	355710-00
9.....	2	DRAW PIN W/ CLIP	357035-00
10.....	2	1/4" x 2" x 3" BACKING PLATE W/ 9/16" HOLE	A-000147
11.....	1	CROSS BRACE	A-002513
12.....	1	DRIVER SIDE PLATE	B-001103
13.....	1	PASSENGER SIDE PLATE	B-001104
14.....	1	DRIVER SIDE ARM	C-000985
15.....	1	PASSENGER SIDE ARM	C-000986
16.....	1	DRIVER SIDE RECEIVER	C-001608
17.....	1	PASSENGER SIDE RECEIVER	C-001609



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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 a main receiver brace, two removable front braces and a hardware pack.

The main receiver brace mounts to the frame rails. 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 Threadlocker 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" or more 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 the towing system's 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 check and 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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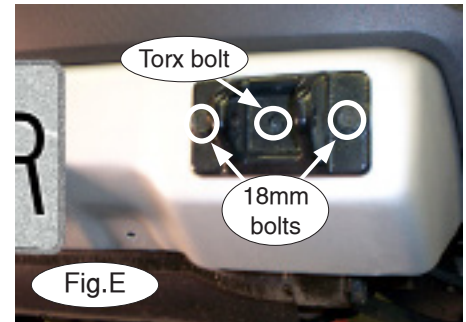
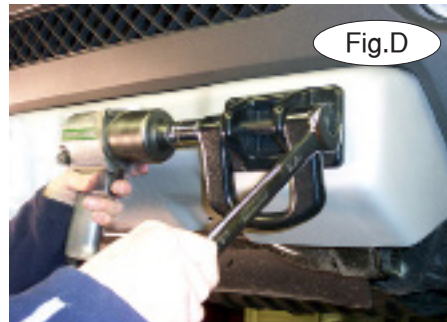
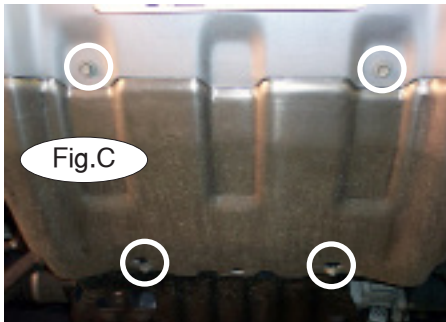
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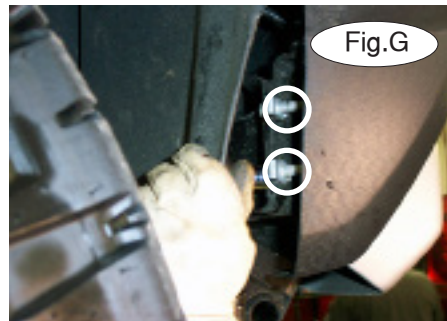
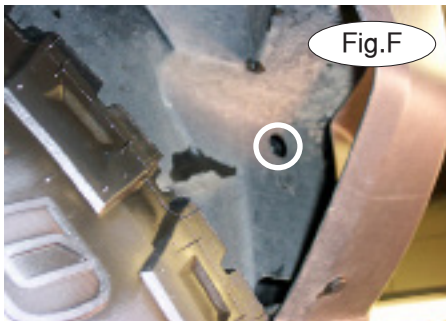
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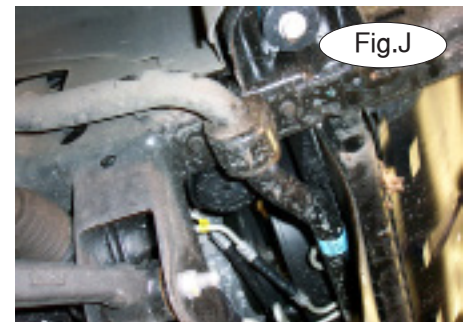
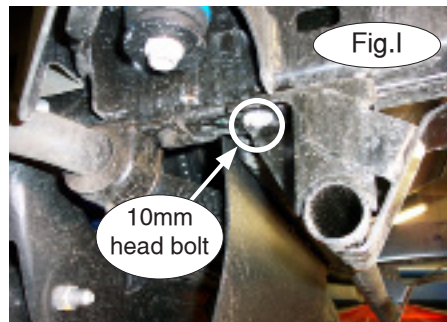
1. **Important:** please use all supplied bolts and parts and read all instructions carefully before beginning this installation. The majority of questions you may have can be answered within the text, and proper installation will ensure safe and secure travel. Now, begin the installation. Start by removing four 13mm (head) bolts attaching the rock guard to the subframe and front bumper (Fig.C).

2. On each side, remove the tow hook loops by removing one 24mm nut (Fig.D).
3. On each side, remove two 18mm (head) bolts attaching the base of the tow hook to the bumper (Fig.E).
4. On each side, remove one T30 Torx bolt attaching the tow hook to the bumper core (Fig.E).



5. On each side, remove one plastic fastener attaching the fender liner to the side of the frame rail (Fig.F).
6. On each side, pull back the fender liner and remove two 13mm (head) bolts attaching the bumper support to the bumper (Fig.G).
7. Disconnect the fog lights, if the vehicle is so equipped.
8. Pull forward to remove the bumper (Fig.H).

9. On each side, remove one 10mm (head) bolt attaching the bumper support to the subframe (Fig.I). Remove the bumper support. *Note:* the bumper support will be replaced by the main receiver braces. The bumper support and all attachment hardware should be retained in case the bracket is ever removed.



10. On each side, remove two 10mm (head) bolts attaching the sway bar bushings to the subframe (Fig.J). This will allow the sway bar to be temporarily lowered.



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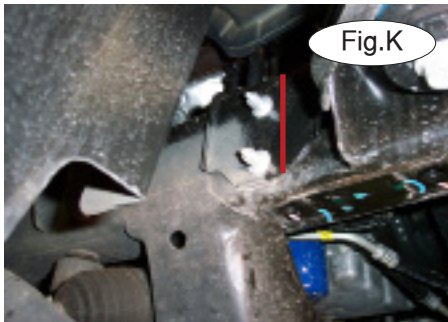


Fig.K



Fig.L

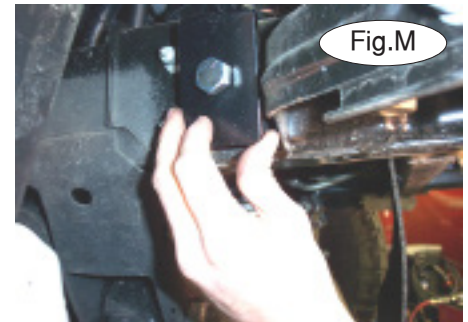


Fig.M

11. For vehicles equipped with an auxiliary air pump, the passenger side front mounting bracket must be trimmed with a die-grinder to gain access to a pre-existing hole that will be used to mount the main receiver brace. Use the red line in Figure K as a guide for trimming. First, you will need to remove a plastic fastener from the fender liner (Fig.L).

12. Now, place a  $\frac{1}{2}$ " x  $4\frac{1}{2}$ " bolt over a  $\frac{1}{4}$ " x 2" x 3" backing plate and into the hole now visible in the frame rail (Fig.M).

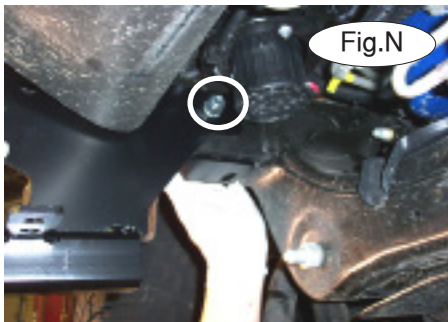


Fig.N

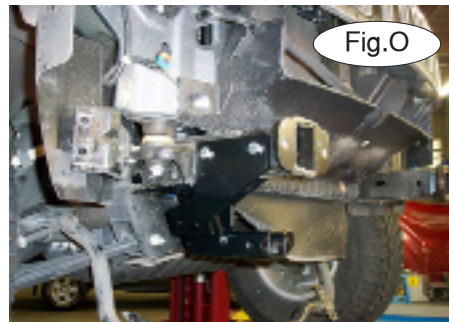


Fig.O

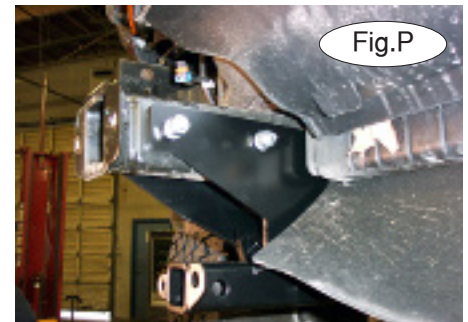


Fig.P

13. Align the rear hole of the main receiver brace over the  $\frac{1}{2}$ " x  $4\frac{1}{2}$ " bolt placed through the frame rail in the previous step and secure it with a  $\frac{1}{2}$ " nut and lock washer (Fig.N).

Bolt the passenger side plate to the side of the frame rail using the two supplied  $\frac{1}{2}$ " x  $1\frac{1}{2}$ " bolts and lock washers. Figure O shows the outside of the plate and Figure P shows the inside of the plate after the installation of these bolts.

14. Bolt the side brace to the main receiver brace using the supplied  $\frac{1}{2}$ " x  $1\frac{1}{2}$ " bolts and lock washers.

15. Repeat steps 12 through 14 for the driver's side of the vehicle.

16. Using the supplied 10mm x 1.5 x 40mm bolts, lock washers and flat washers, bolt the sway bar through the sway bar mounts, frame rail and main receiver brace (Fig.Q).

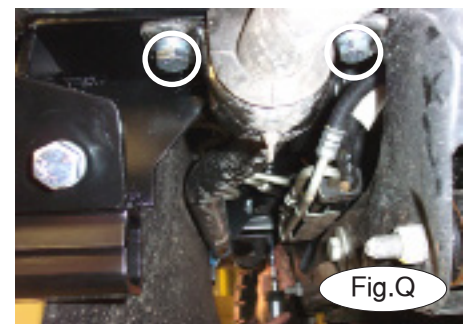


Fig.Q



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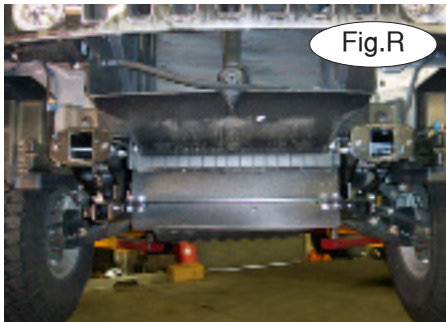


Fig.R

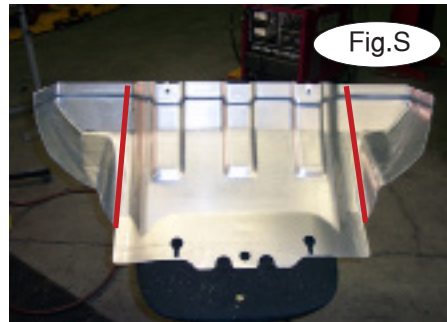


Fig.S

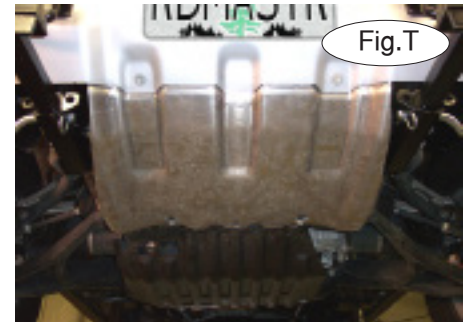


Fig.T

17. Bolt the cross brace into place using the supplied 1/2" x 1 1/4" bolts, lockwashers and nuts (Fig.R).
18. Tighten all bolts to the bolt torque requirements found at the end of this document.
19. Reassemble the bumper, fender liners and tow hooks, reversing steps 2 through 8. *Note:* the T30 Torx bolts removed in step 4 will not be replaced. Retain the bolts in case the bracket is ever removed from the vehicle.
20. Trim the rock guard with a die-grinder before reattaching it. It can also be left off the vehicle. If it is being trimmed, use the red lines in Figure S as a guide.
21. Reinstall the rock guard, reversing step 1 (Fig.T).
22. Install the tow bar according to the manufacturer's instructions.
23. Attach the safety cables to the main receiver brace.

## 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.