



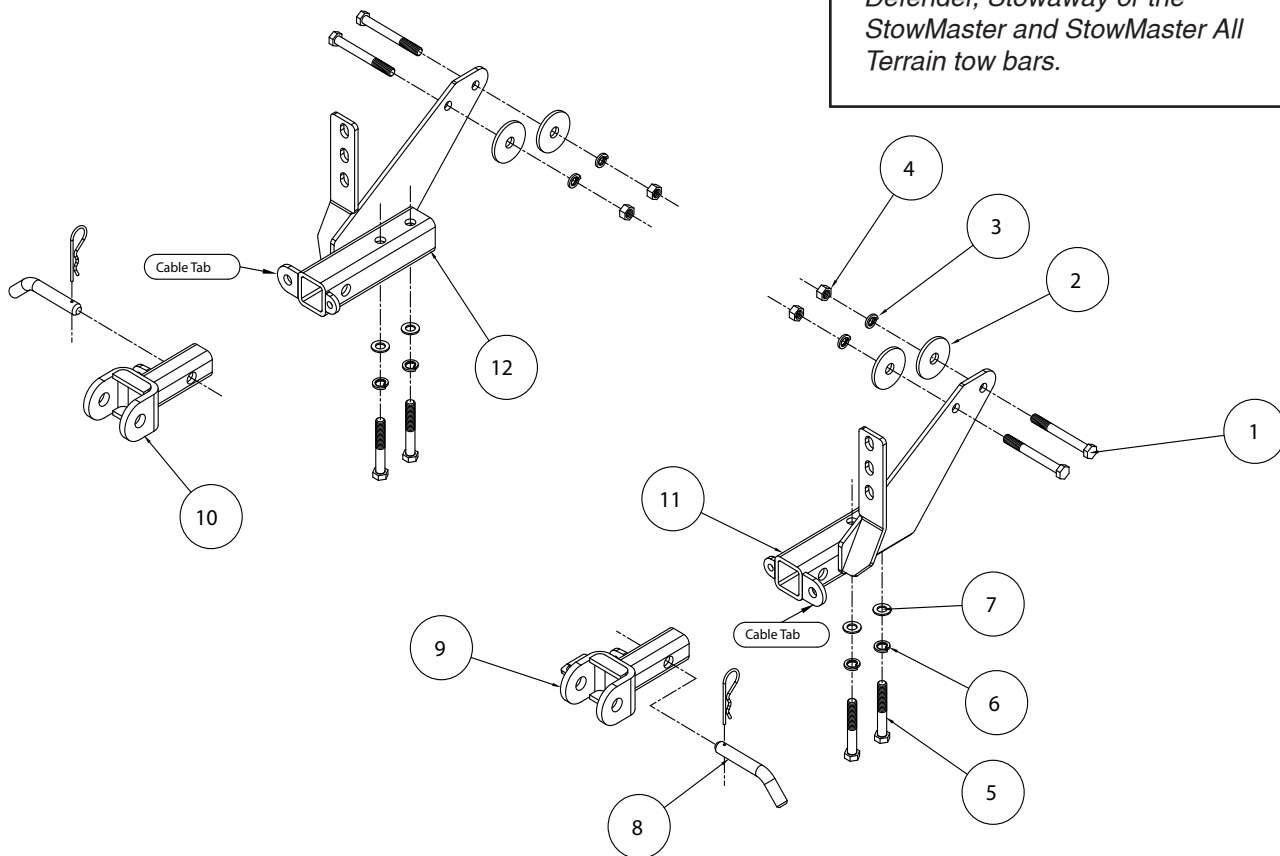
BASEPLATE KIT INSTALLATION INSTRUCTIONS

KIT# 1186-3

12/07/15
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	MATERIAL
1.....	4	7/16" x 4" BOLT.....	350084-00
2.....	4	1/2" PLATE WASHER.....	350354-00
3.....	4	7/16" LOCK WASHER	350307-00
4.....	4	7/16" HEX NUT	350256-00
5.....	4	12mm x 1.25 x 80mm BOLT	357111-00
6.....	4	12mm LOCK WASHER.....	355725-00
7.....	4	12mm FLAT WASHER.....	355720-00
8.....	2	5/8" DRAW PIN / W CLIP.....	357035-00
9.....	1	DRIVER SIDE ARM.....	C-001476
10.....	1	PASSENGER SIDE ARM	C-001477
11.....	1	DRIVER SIDE RECEIVER.....	C-001519
12.....	1	PASSENGER SIDE RECEIVER.....	C-001520



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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 kit consists of a passenger and driver side main receiver brace, two removable front braces and a hardware pack. The main receiver braces mount to the frame rails and 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.

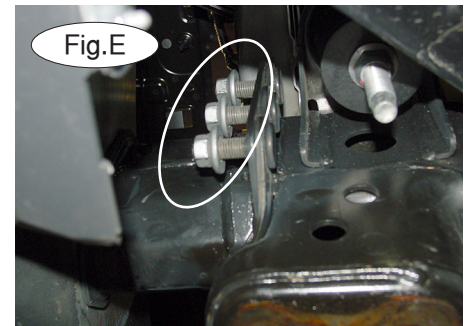
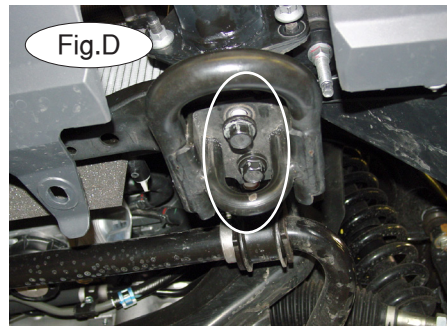
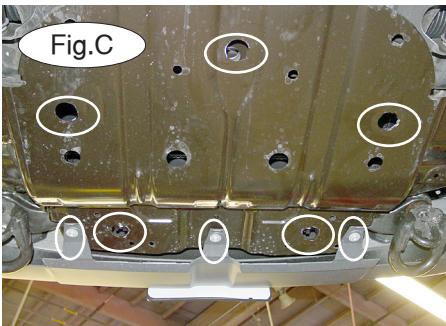


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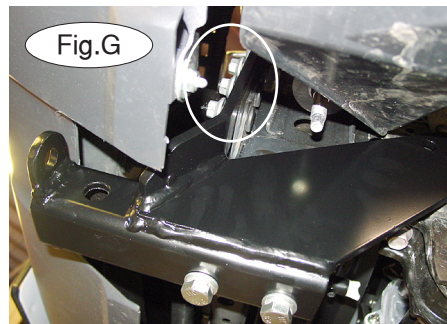
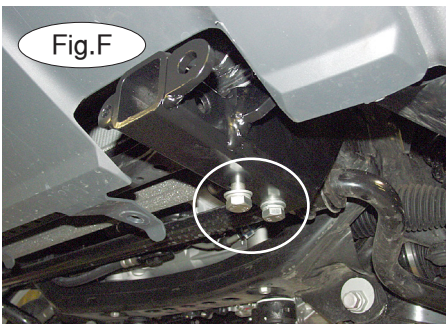
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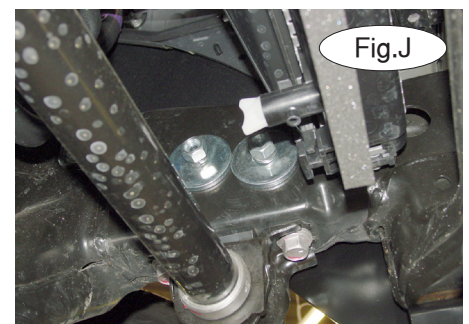
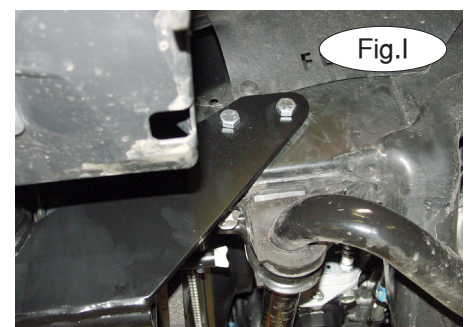
1. **Important:** please use all supplied bolts and parts and read all instructions carefully before beginning this installation. The majority of questions you may have can be answered within the text, and proper installation will ensure safe and secure travel. Now, begin the installation by removing three 10mm (head) bolts attaching the fascia to the skid plate (Fig.C). Then, remove five 13mm (head) bolts attaching the skid plate to the subframe (Fig.C). Now, to remove the skid plate, slide it toward the passenger side to unlock the hooks.

2. On both sides, remove the tow hooks by removing the two 17mm (head) bolts (Fig.D). *Note:* the tow hooks will not be replaced. They should be retained in case the bracket is ever removed.

3. On both sides, remove the three outside 14mm (head) nuts attaching the bumper core to the frame rails (Fig.E). These are located up inside the fascia.



4. Beginning with the driver's side, place one of the main receiver braces over the bumper core studs from step 3, and against the bottom of the subframe. Using the supplied 12mm x 1.25 x 80mm bolts, lock washers and nuts, bolt through the bottom of the main receiver brace and into the weld nuts you removed the tow hooks from (Fig.F).



5. Now, replace the three 14mm (head) nuts removed in step 3 (Fig.G).

6. Tighten all bolts and nuts to the torque specifications listed at the end of these instructions, starting with the lower 12mm bolts.

7. Using the forward most side mounting point in the main receiver brace as a template, drill through the hole and into the frame rail using a 7/16" drill bit (Fig.H). *Note:* use caution not to drill into any engine components.

8. Next, bolt through the side of the main receiver brace using the two supplied 7/16" x 4" bolts, lock washers, flat washers and nuts (Fig.I). *Note:* place the flat washers on the inside of the frame rails (Fig.J).

9. Tighten all bolts to the torque specifications listed at the end of these instructions.

10. Repeat steps 4 through 9 for the passenger side.



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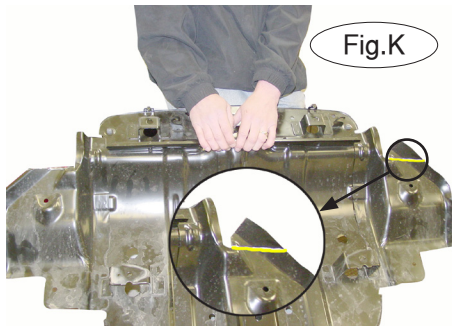


Fig.K

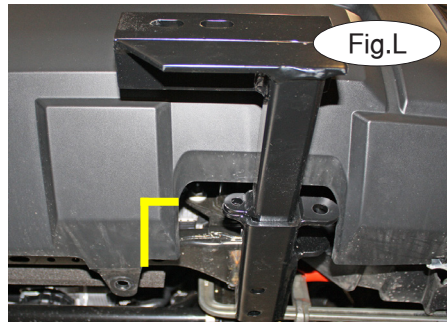


Fig.L

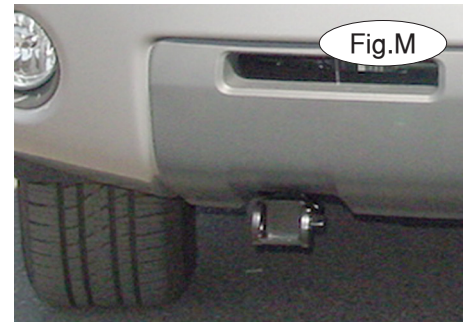


Fig.M

11. On both sides, use the yellow marker line in Figure K as a guide for correct trimming before reinstalling the skid plate.
12. **For '14 Tundra models only:** trim the back corner of the tow hook opening as shown in Figure L to allow clearance for the draw pin.
13. Reinstall the skid plate you removed in step 1.
14. 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.M).
15. 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.

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.