



BASEPLATE KIT INSTALLATION INSTRUCTIONS

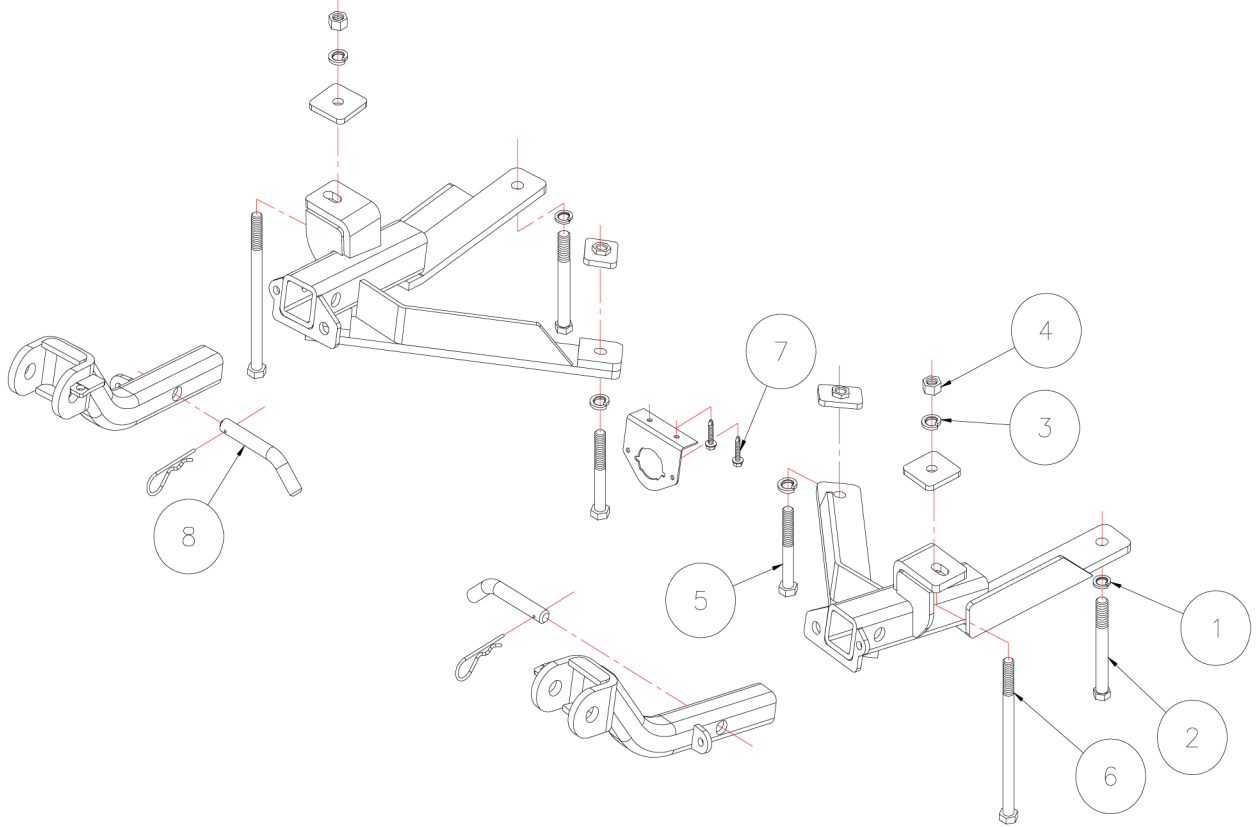
KIT# 3127-3

12/04/07
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 | Length | Width | Description | Part # |
|------|-----|--------|-------|-------------------------|-----------|
| 1 | 2 | | 14mm | LOCK WASHER | 355740-00 |
| 2 | 2 | 120mm | 14mm | 14mm x 2.0 x 120mm BOLT | 355910-40 |
| 3 | 4 | | 1/2" | LOCK WASHER | 350309-00 |
| 4 | 4 | | 1/2" | NUT | 350266-00 |
| 5 | 2 | 4" | 1/2" | 1/2" x 4" BOLT | 350105-00 |
| 6 | 2 | 8" | 1/2" | 1/2" x 8" | 350113-00 |
| 7 | 2 | 1 1/4" | | 10-16 x 1 1/4 | 357247-00 |
| 8 | 2 | | 5/8" | DRAW PIN, SPRING PIN | 357035-00 |

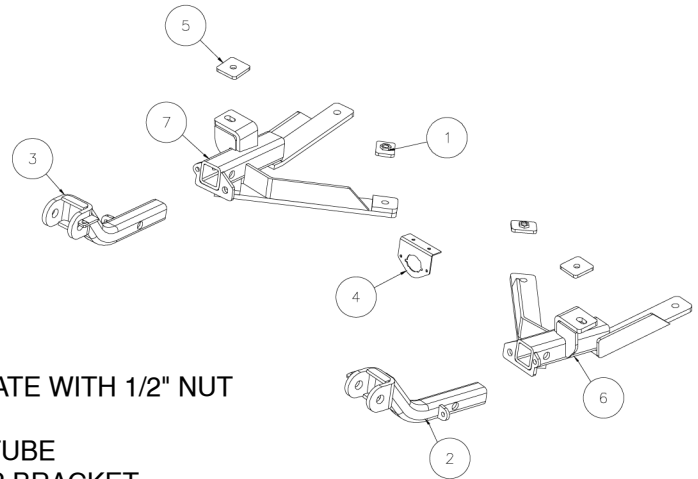


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| Item | Qty. | Part # | Description |
|--------|---------|----------|---|
| 1..... | 2 | C-001010 | ...THREADED BACKING PLATE WITH 1/2" NUT |
| 2..... | 1 | C-001011 | ...DRIVER SIDE ARM TUBE |
| 3..... | 1 | C-001012 | ...PASSENGER SIDE ARM TUBE |
| 4..... | 1 | B-000045 | ...WIRE PLUG CONNECTOR BRACKET |
| 5..... | 2 | A-001106 | ...1/4" x 2" x 2" BACKING PLATE |
| 6..... | 1 | C-001006 | ...DRIVER SIDE RECEIVER BRACE WELDMENT |
| 7..... | 1 | C-001007 | ...PASSENGER SIDE RECEIVER BRACE WELDMENT |

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.



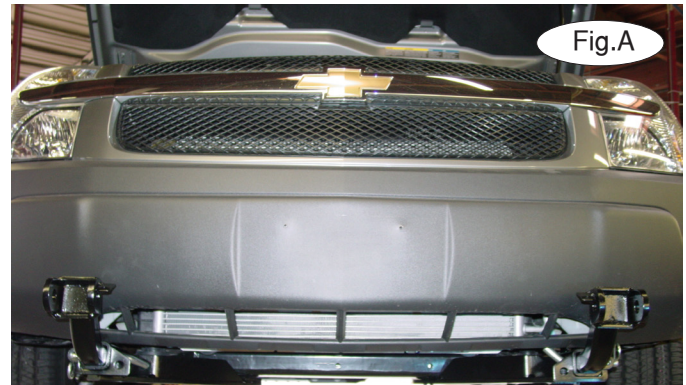
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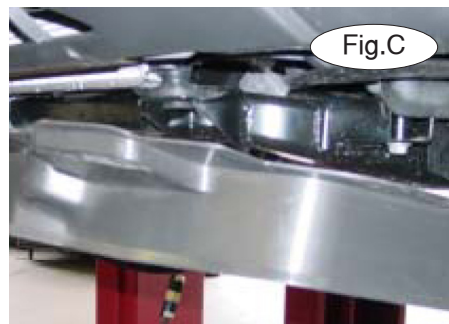
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This bracket kit is one of our XL series, which is designed to be partly removable. The kit consists of two main receiver braces, front arm braces, and a hardware pack. The main receiver brace mounts under the front bumper fascia to the frame and subframe on each side (Fig.A). The front braces insert into the receivers on each side. Start by laying the kit out according to the illustration. This will give you a visual idea of how the kit installs and also confirm that the kit components are present and accounted for.

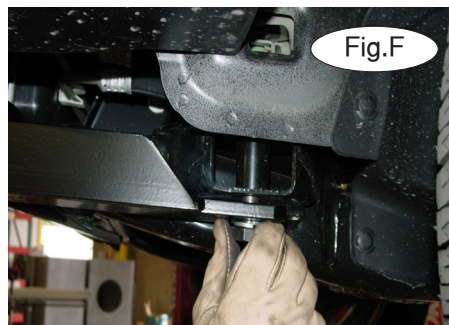
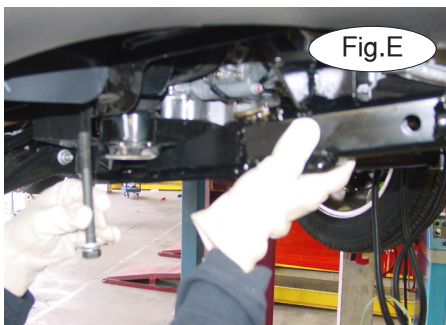


1. **Important:** please use all supplied bolts and parts



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. Remove 13 plastic fasteners from the lower air dam and then remove the air dam (Fig.B,C).

2. Working on one side at a time, remove the front subframe bolt (Fig.D).



3. Hold a receiver brace under the subframe as shown (Fig.E) and bolt through the rear mounting hole with a 14mm x 2.0 x 120mm bolt, lock washer and flat washer (Fig.F).

4. Tighten to hold the receiver brace in position .

5. On the lower subframe near the inner mounting plates on the receiver braces locate existing holes and drill up through the top. Bolt through the inside mounting hole up through the middle of the subframe using a 1/2" x 4" bolt, lock washer and threaded backing plate. Hand tighten for now.

6. Repeat steps 4 through 7 for the remaining side.

7. Now install the wire plug bracket using the supplied 10 x 1 1/4" self-tapping screws (Fig.G).



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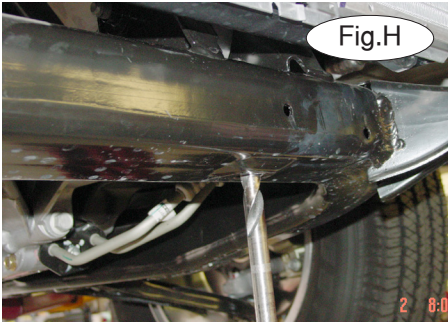


Fig.H

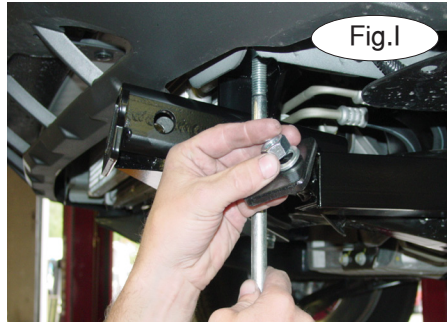


Fig.I

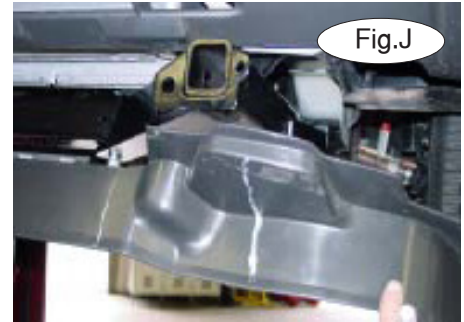


Fig.J

8. Align the braces and tighten in place. *Note:* the braces should now be aligned and even across the front and the remaining front mounting holes in the receiver braces should be lined up with existing holes in the bottom of the frame on each side.

9. Using the receiver braces as drill templates, enlarge the existing holes in the bottom of the frames and drill all the way through the frame with a long 17/32" drill bit (Fig.H). *Note:* use a metal plate on top of the frame to protect the wiring harness and other plumbing.

10. Bolt through the mounting holes in the receiver braces and the frame with 1/2" x 8" bolts, 1/4" x 2" x 2" backing plates, lock washers and nuts (Fig.I).



Fig.K

11. Torque all mounting bolts to the torque specifications at the end of these

12. At this time, the lower air dam can be cut to fit around the braces and reinstalled reversing step 2 or left off for future replacement if the bracket is ever removed. (Figures J and K) show the air dam as it would fit if installed and Figure L shows the installation minus the lower air dam.

13. Install the front braces in the receiver tubes and pin from the top with 5/8" draw pins and spring pins.

14. Install the tow bar according to the manufacturer's instructions and torque all mounting bolts to the specifications below.



Fig.L

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.