

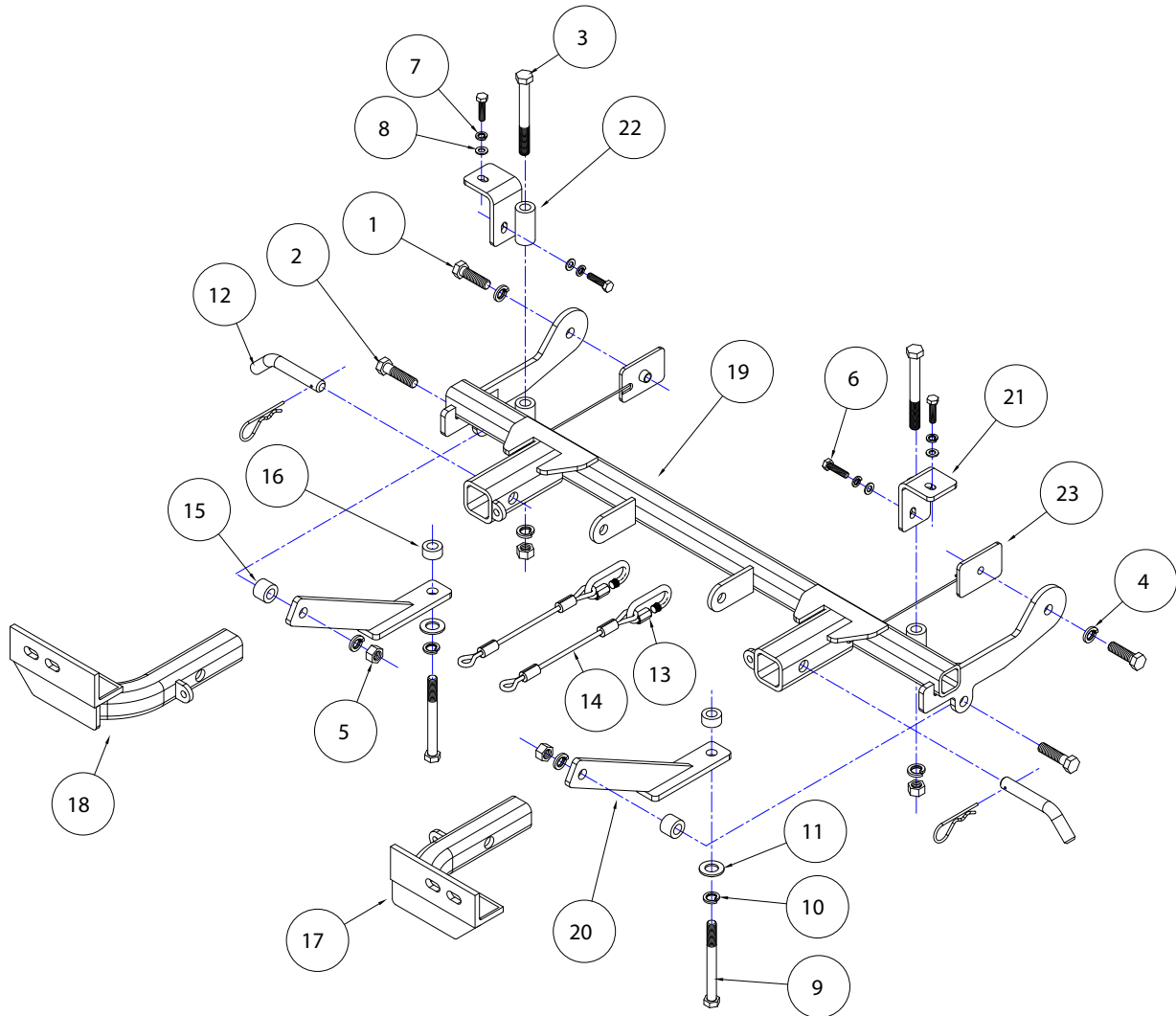


# BASEPLATE KIT INSTALLATION INSTRUCTIONS

**KIT# 1016-1**

07/16/20  
KS

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



| ITEM | QTY | NAME                                       | MATERIAL  |
|------|-----|--|-----------|
| 1    | 2   | 1/2" x 1 3/4" BOLT                         | 350096-00 |
| 2    | 2   | 1/2" x 2" BOLT                             | 350097-00 |
| 3    | 2   | 1/2" x 4 1/2" BOLT                         | 350106-00 |
| 4    | 6   | 1/2" LOCK WASHER                           | 350309-00 |
| 5    | 6   | 1/2" NUT                                   | 350258-00 |
| 6    | 4   | 8MM x 1.25 x 30MM BOLT                     | 356001-00 |
| 7    | 4   | 8MM LOCK WASHER                            | 355705-00 |
| 8    | 4   | 8MM FLAT WASHER                            | 355700-00 |
| 9    | 2   | 12MM x 1.25MM x 100MM BOLT                 | 357008-10 |
| 10   | 2   | 12MM LOCK WASHER                           | 355725-00 |
| 11   | 2   | 12MM FLAT WASHER                           | 355720-00 |
| 12   | 2   | DRAW PIN/SPRING PIN                        | 357035-00 |
| 13   | 2   | QUICK LINKS                                | 200008-00 |
| 14   | 2   | 13" SAFETY CABLES                          | 650646-13 |
| 15   | 2   | 1" O.D. x .219 WALL x 3/4" TUBE SPACER     | A-000558  |
| 16   | 2   | 1" O.D. x .219 WALL x 1/2" TUBE SPACER     | A-001437  |
| 17   | 1   | DRIVER SIDE ARM                            | C-000774  |
| 18   | 1   | PASSENGER SIDE ARM                         | C-000775  |
| 19   | 2   | MAIN RECEIVER                              | C-000776  |
| 20   | 2   | LOWER MOUNTING BRACE                       | C-000777  |
| 21   | 2   | DRIVER SIDE UPPER MOUNTING BRACE           | C-000778  |
| 22   | 2   | PASSENGER SIDE UPPER MOUNTING BRACE        | C-000779  |
| 23   | 2   | 2" x 3" THREADED BACKING PLATE WITH 8" ROD | C-003410  |



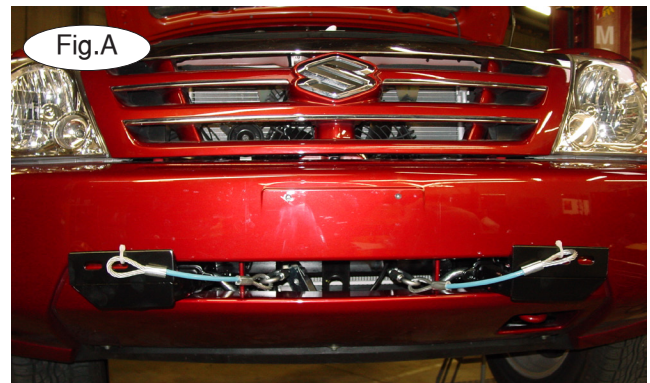
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This is one of our crossbar-style series, which allows the visible front portion of the baseplate to be easily removed from the front of the vehicle. The kit consists of a main receiver brace, two front braces, two lower braces and a hardware pack. The rear receiver brace mounts to the front and bottom of the frame and protrudes through the lower grill below the bumper. The front braces insert into the rear receiver tubes and are pinned in place. The lower bumper fascia will have to be trimmed slightly to fit around the rear portion of the main receiver braces. Before starting the installation, lay out the kit components as it is illustrated. This will give you a visual idea of how the components work and also confirm that everything is present and accounted for (Fig.A).



**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.

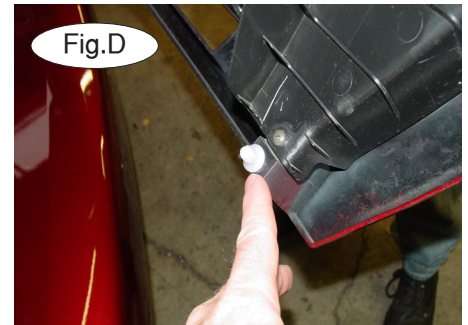


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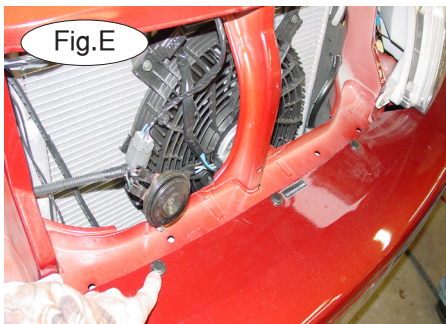


1. **Important:** please use all supplied bolts and parts and read all instructions carefully before beginning this installation. The majority of questions you may have can be answered within the text, and proper installation will ensure safe and secure travel.

Now, begin the installation by removing four plastic fasteners on the top of the front grill (Fig.B), carefully pull the grill straight forward to remove then set aside (Fig.C). This will expose the top plastic fasteners in the bumper fascia. *Note:* the side sockets that hold the grille in can be quite tight; a wire or hook may help in pulling loose (Fig.D).

2. Now remove seven plastic fasteners on top in the top of the fascia (Fig.E).

3. Remove the plastic and screw fasteners in the front of each fender (Fig.F), especially the hidden 10mm (head) screw located in the top junction of the fender and fascia on each side (Fig.G).



4. Remove three remaining (10mm head) bolts from the bottom sides and center (Fig.H). There are also two center Phillips screws to remove (Fig.I).

5. Disconnect the ambient air sensor from the fascia (Fig.J), then pull the fascia forward and set aside (Fig.K).



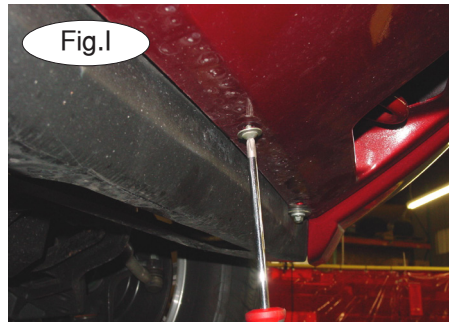


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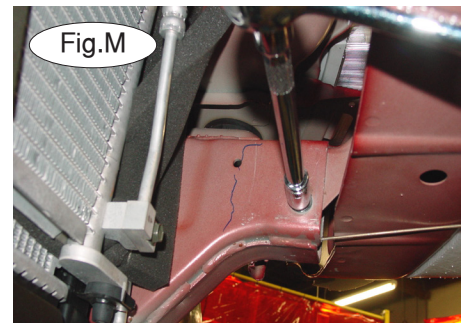
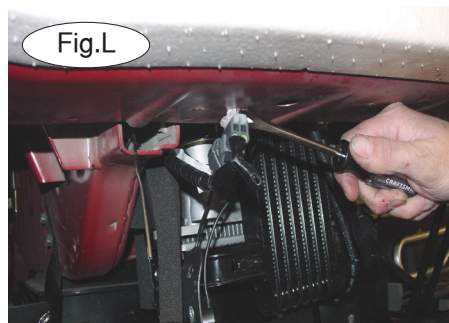
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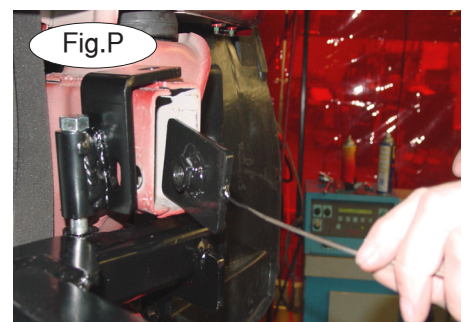
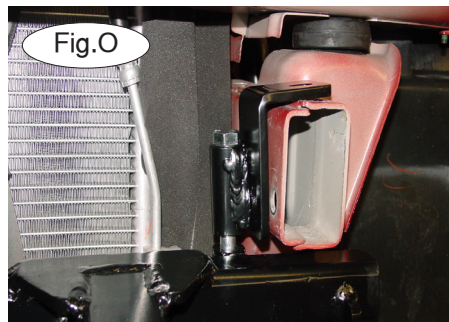
6. Locate and disconnect any wiring or the wiring harness from the bottom of the bumper core (Fig.L). *Note:* some models may have a vacuum pump which may have to be removed from the rear of the bumper core.

7. Remove the inner bumper core mounting bolt (Fig.M) and the 12mm (head) upper mounting bolt on both sides then pull forward to remove the bumper core. This will give you access to the inside of the frame tubes for the next step.



8. Find the upper mounting braces for each side and position on the top of the frame tubes (Fig.N) then mount the main receiver brace on the sides of the frame tubes as shown (Fig.O). Bolt through the upper braces and the main receiver brace with  $\frac{1}{2}$ " x  $4\frac{1}{2}$ " bolt, lock washer and nut on each side. This will support the brace in place.

9. Insert a  $\frac{1}{4}$ " x 2" x 3" threaded backing plate into the front of the frame tube and bolt through the existing frame hole and main brace with a  $\frac{1}{2}$ " x  $1\frac{3}{4}$ " bolt, lock washer on each side (Fig.P).



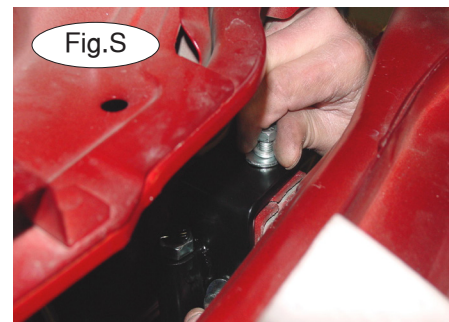
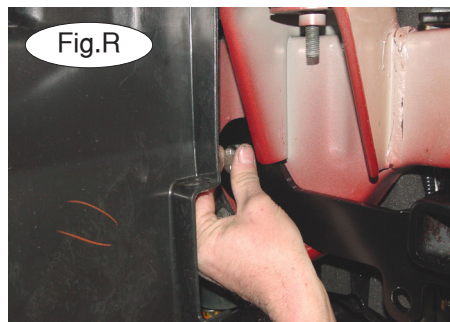
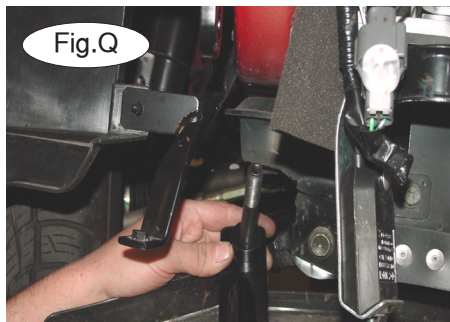


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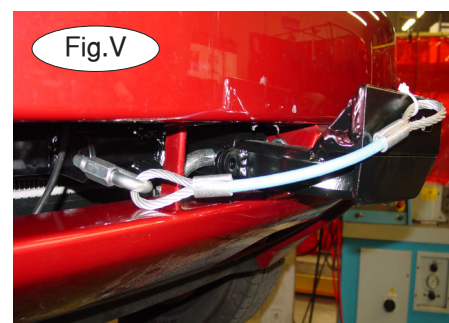
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10. Remove two 17mm (head) front lower suspension bolts (Fig.Q). Place two 12mm lock washers and flat washers over the supplied 12mm x 1.25 x 100mm bolts then bolt up through the lower brace, the 1/2" spacers and into the lower suspension. Now, using the two supplied 1/2" x 2" bolts, bolt through the top of the receiver, 3/4" spacers, and lower brace and finish with a 1/2" lock washer and nut (Fig.R). *Note:* later vehicles may have an additional lower metal air dam attached which will have to be trimmed to fit around the lower braces. If needed, trim now.

11. Reinstall the bumper core using the supplied 8mm x 1.25 x 30mm bolts, flat washers and lock washers to bolt through the upper braces into the bumper core (Fig.S).



12. Align the receiver brace then tighten all bolts to the specifications below (Fig.T).

13. Reinstall the fascia, reversing steps 2 through 7 (Fig.U).

14. Install the front braces by inserting and securing with 5/8" draw pins and 3/16" spring pins (Fig.V).

15. Replace the grille-reversing step 2.

16. Mount the tow bar according to the tow bar manufacturer's instructions. Install the 13" safety cables to the front of the main receiver portion of the bracket with the provided quick links. Attach the other ends to the tow vehicle's safety cables and tow bar.

## 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.