

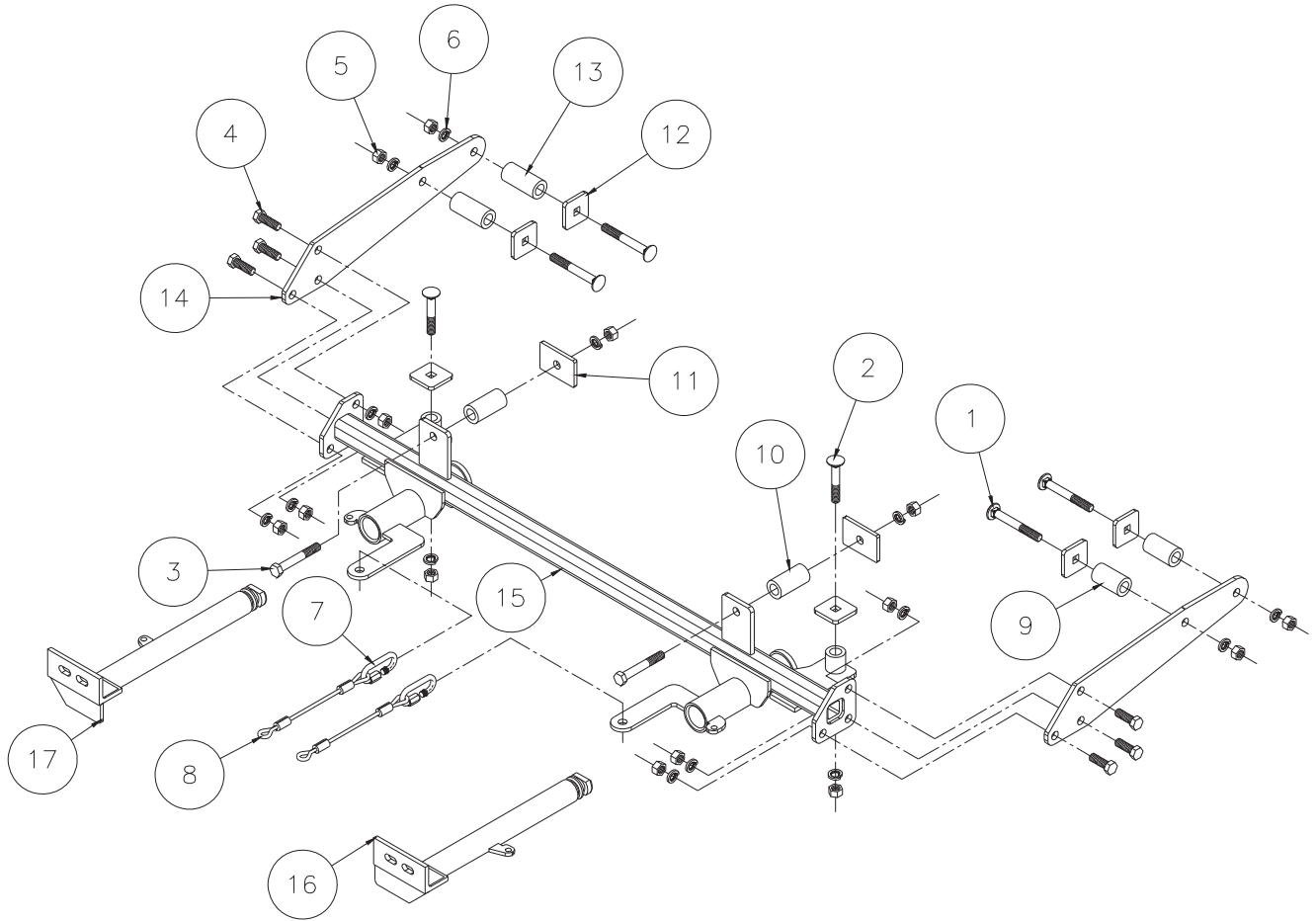


BASEPLATE KIT INSTALLATION INSTRUCTIONS

KIT# 52496-1

07/13/09
KS

ROADMASTER, Inc. 6110 NE 127th Ave. Vancouver, WA 98682 1-800-669-9690 fax 360-735-9300 www.roadmasterinc.com



ITEM	QTY	NAME	MATERIAL
1	4	1/2" x 4" CARRIAGE BOLT	350124-00
2	2	1/2" x 3" CARRIAGE BOLT	350123-00
3	2	1/2" x 3 1/2" BOLT	350103-00
4	6	1/2" x 1 1/2" BOLT	350095-00
5	14	1/2" HEX NUT	350258-00
6	14	1/2" LOCK WASHER	350309-00
7	2	QUICK LINK	200008-00
8	2	SAFETY CABLE 8"	650646-08
9	2	1 1/4" O.D. x 0.250 WALL x 2 1/4" PIPE SPACER	A-001460
10	2	1 1/4" O.D. x 0.250 WALL x 1 1/2" PIPE SPACER	A-001596
11	2	1/4" x 2" x 3" ROUND HOLE BACKING PLATE	A-000147
12	6	1/4" x 2" x 2" SQUARE HOLE BACKING PLATE	A-000189
13	2	1 1/4" O.D. x 0.250 WALL x 2 3/4" PIPE SPACER	A-001494
14	2	SIDE PLATE	A-001492
15	1	MAIN RECEIVER	C-000970
16	1	DRIVER SIDE ARM	C-000868A
17	1	PASSENGER SIDE ARM	C-000869A



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This is one of our EZ bracket series, which allows the visible front portion of the brackets to be easily removed from the front of the vehicle (Fig.A).

The bracket kit consists of the main receiver brace, front braces, side braces and a hardware pack. The rear receiver brace mounts to the bottom and side of the frame and protrudes through the lower grill below the bumper core. The front braces insert into the rear brace and then rotate 90 degrees to lock in place. The radiator air deflectors have to be trimmed to fit around the receiver braces.

Before starting the installation, lay out the kit components as illustrated. This will give you a visual idea of how the components work and 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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Fig.B



Fig.C

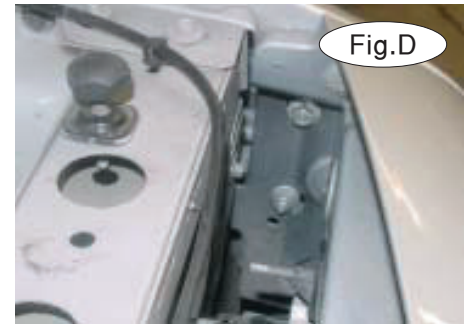


Fig.D

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 three plastic fasteners in the top radiator between the headlights (Fig.B), then set aside (Fig.C).

2. Remove two nuts (7/16") on each side holding the corner light assemblies (Fig.D).



Fig.E



Fig.F



Fig.G

3. Pull the marker light assemblies loose, disconnect and set aside (Fig.E).

4. Remove two exposed bolts in the fender fascia joint (7/32" side and 5/16" top) (Fig.F), then remove three plastic fasteners in each fender well (Fig.G).



Fig.H



Fig.I



Fig.J

5. Go to the bottom of the fascia and remove six fasteners (5/16" head) (Fig.H), then pull out on each side (Fig.I) and pull forward to remove the fascia and set aside (Fig.J).



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Fig.K



Fig.L

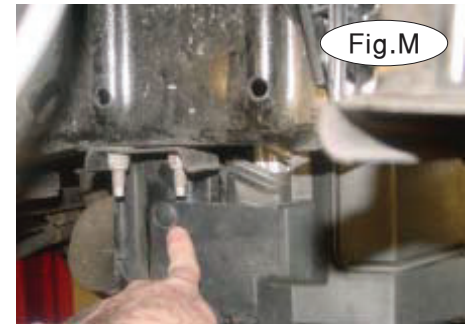


Fig.M

6. Next, remove the steel bumper core (four ½" nuts per side) (Fig.K,L).

7. Remove the lower plastic fasteners in the side of the radiator air deflectors in preparation for trimming later (Fig.M).



Fig.N



Fig.O

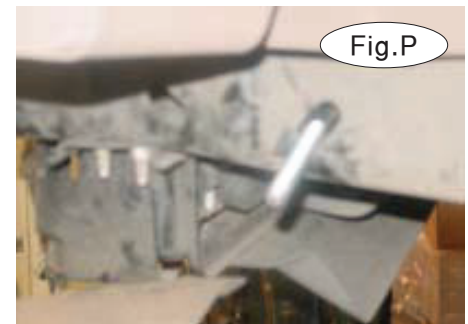


Fig.P

8. The next steps are preparation for mounting the side plates to the side of the frame rails, collect four ½" x 4" carriage bolts, four 2" x 2" backing plates, two 2¼" spacers (driver's side), two 2¾" spacers (passenger side) lock washers and nuts (Fig.N).

9. Fish wire the ½" x 4" carriage bolts and backing plates through the front of frame into two existing slotted holes in the side of the frame rail on each side (Fig.O,P).

10. On the drivers side assemble two 2¼" spacers on the bolts as shown (Fig.Q), then repeat for the passenger side using 2¾" spacers.



Fig.Q



Fig.R



Fig.S



Fig.T

11. Put a side plate over the spacers on the bolts and bolt in place using ½" lock washers and nuts (Fig.R).

12. Find an existing bottom hole in the frame close to the front opening on each side and insert a ½" x 3" carriage bolt, 2" x 2", backing plate through the front of the frame and into the bottom hole on each side (Fig.S,T). *Note:* the hole may have a slug attached which should be broken off.



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Fig.U

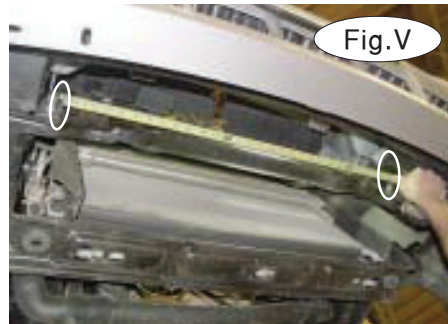


Fig.V

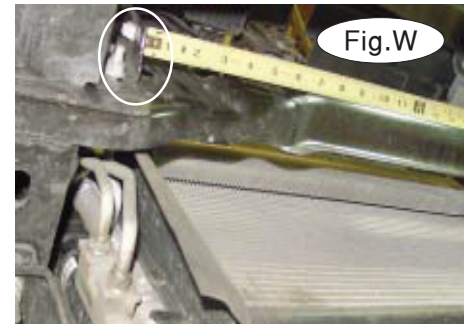


Fig.W



Fig.X

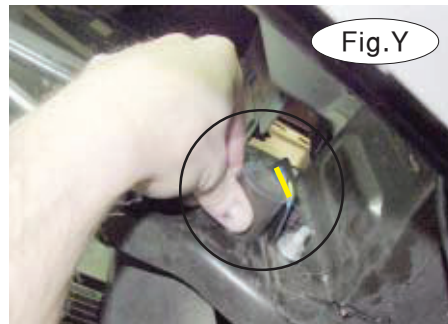


Fig.Y

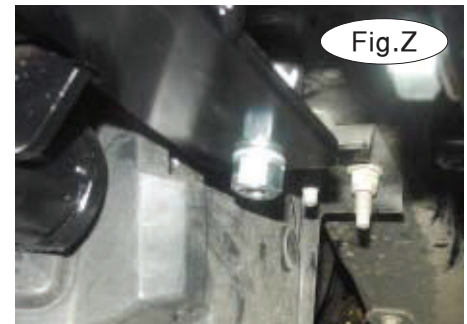


Fig.Z

13. Now, reinstall the bumper core reversing step 6 (Fig.U).

14. Due to frame variances, the distance between the upper air deflectors mounting points for the 2006 - 2007 models may be different. Measure the distance between the air deflectors mounting points (Fig.V,W). If the distance is less the 29" (Fig.X), the ends of the mounting bracket will need to be trimmed so it will not hang over more then 1½". Hold the spacer against the mounting point and mark for trimming (Fig.Y). Once the bumper core is installed, hold the main receiver brace to the bottom of the frame between the side plates on each side and bolt in place using ½" nuts and lock washers on the carriage bolts installed in step 12 (Fig.Z).

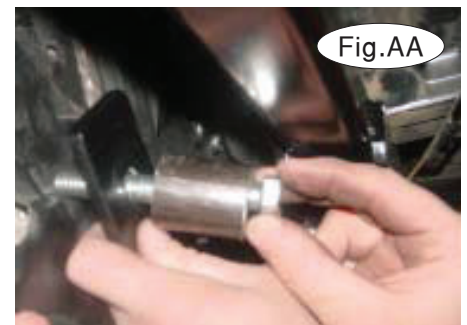


Fig.AA

15. Bolt through the top receiver brace mounts and the radiator cross member with two ½" x 3½" bolts, using 1½" spacers and 2" x 3" backing plates. Finish with ½" lock washers and nuts (Fig.AA,BB).

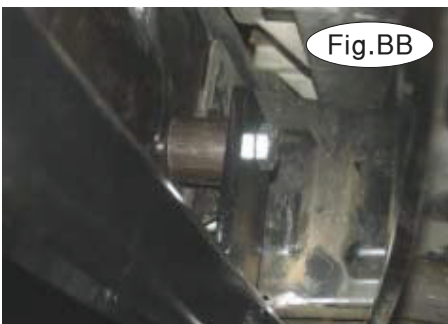


Fig.BB



Fig.CC

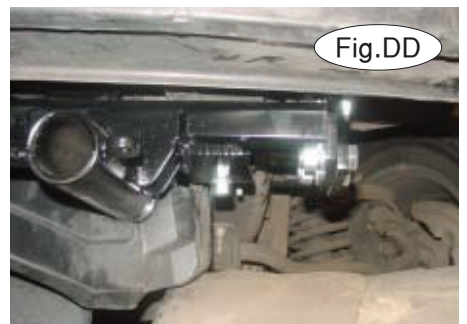


Fig.DD

16. Now, bolt the side plates and the main receiver brace together on each side with three ½" x 1½" bolts, lock washers and nuts (Fig.CC).

17. Tighten all mounting bolts to the torque specifications found at the end of these instructions (Fig.DD).



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Fig.EE



Fig.FF

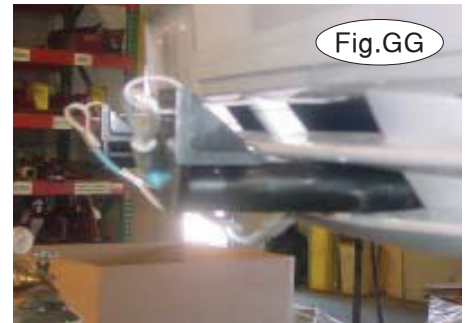


Fig.GG

18. Trim the radiator air deflectors to fit around the receiver brace (Fig.EE).
19. Replace the fascia, lights and radiator cover reversing steps 1 through 5.
20. Install the front braces in the receivers (Fig.FF), then then turn 90 degrees to lock in place (Fig.GG).
21. Connect the 8" safety cables to the cable tabs located on the side of the receivers with the included cable connectors (Fig.HH). Connect the other end to the tow vehicle's safety cables.
22. Mount the tow bar according to the manufacturer's instructions.



Fig.HH

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.