



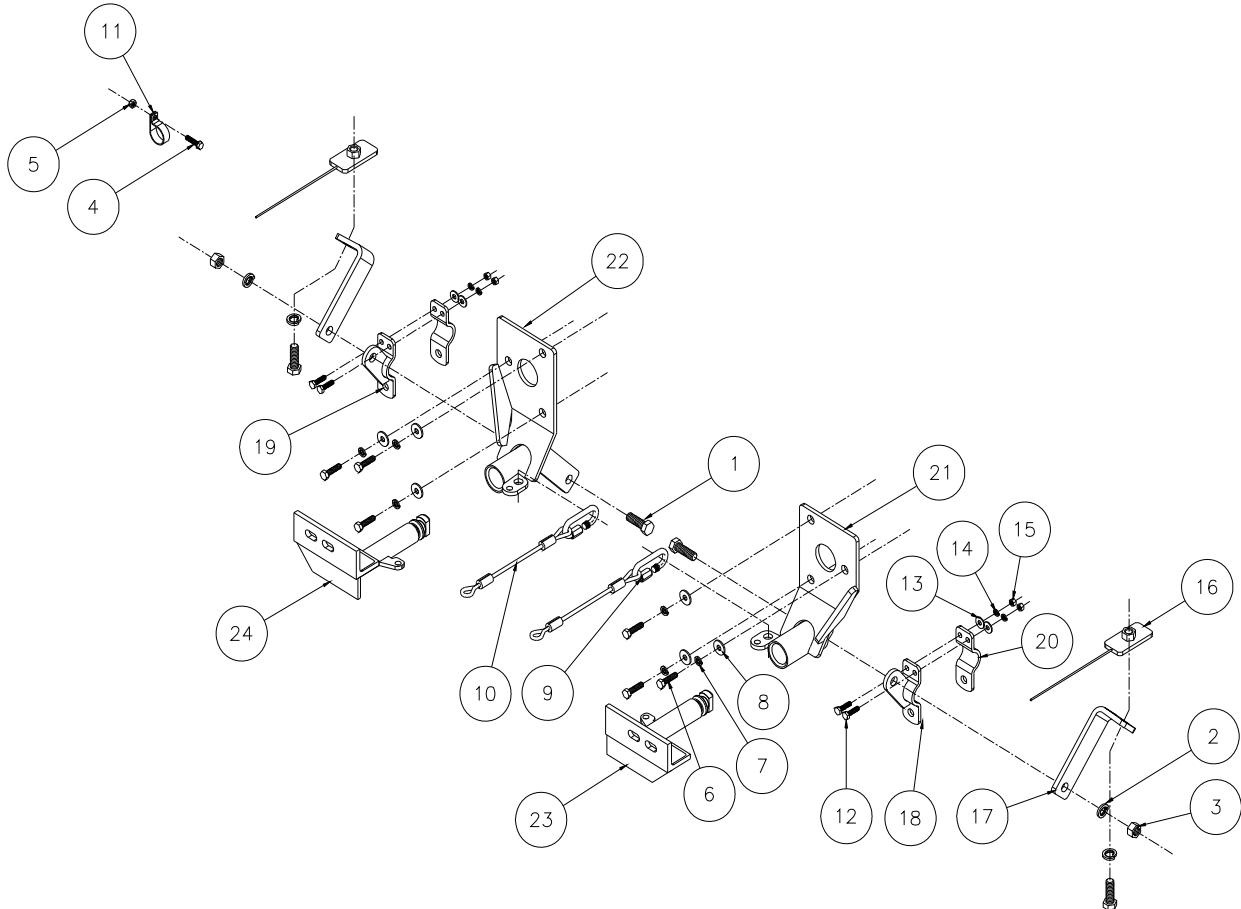
BASEPLATE KIT INSTALLATION INSTRUCTIONS

KIT# 521001-1

09/25/08
KS

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

ROADMASTER, INC.



ITEM	QTY	NAME	MATERIAL
1	4	1/2" x 1 1/2" BOLT	350095-00
2	4	1/2" LOCK WASHER	350309-00
3	2	1/2" HEX NUT	350258-00
4	1	1/4" x 1" LOCK BOLT	350400-20
5	1	1/4" LOCK NUT	350251-20
6	6	8mm x 1.25 x 30 mm BOLT	356001-00
7	6	8mm LOCK WASHER	355705-00
8	6	8mm FENDER WASHER	355702-00
9	2	QUICK LINK	200008-00
10	2	8" SAFETY CABLE	500646-08
11	1	1 1/4" O.D. STRAP	208105-00
12	4	1/4" x 1" BOLT	350005-00
13	4	1/4" FLAT WASHER	350300-00
14	4	1/4" LOCK WASHER	350301-00
15	4	1/4" HEX NUT	350250-00
16	2	1/4" x 1 1/2" x 3" THREADED BACKING PLATE W/ ROD	C-001301
17	2	REAR BRACE	B-001075
18	1	DRIVER SIDE SWAY BAR MOUNT	C-001558
19	1	PASSENGER SIDE SWAY BAR MOUNT	C-001559
20	2	SWAY BAR CLAMP	B-001078
21	1	DRIVER SIDE RECEIVER	C-001560
22	1	PASSENGER SIDE RECEIVER	C-001561
23	1	DRIVER SIDE ARM	C-001562
24	1	PASSENGER SIDE ARM	C-001563



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This is one of our EZ2 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 bracket arms and a hardware pack. The main receiver braces mount to the frame rails, rear brace and the sway bar. The rear braces mount to the frame rails. The removable front brackets 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.



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.

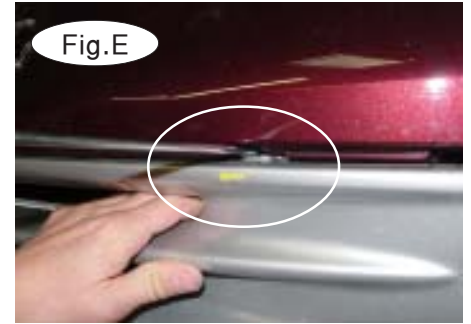


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1. **Important:** please use all supplied bolts and parts and read all instructions carefully before beginning this installation. The majority of questions you may have can be answered within the text, and proper installation will ensure safe and secure travel. Now, begin the installation. Start by removing one screw (per side) to remove the two upper grilles (Fig.C).

2. Next, remove the center grille by unsnapping seven plastic fasteners (Fig.D use a small, thin screwdriver to slip between the fascia and the grille (Fig.E). The yellow marker lines in Figure D mark the location of the plastic fasteners.



3. Remove the two T25 Torx bolts located just inside the turn signals (Fig.F), attaching the fascia to the core support.

4. Unscrew and remove the antenna (Fig.G).

5. Working on one side at a time, remove the four T25 Torx bolts and one plastic fastener located on the inside of the door jam (Fig.H).



6. Now, remove the plastic panel located directly in front of the rear view mirror by pulling out on the bottom of the panel (Fig.I). Then, remove one T25 Torx bolt attaching the top of the fascia to the body (Fig.J).

7. Repeat steps 5 and 6 for the other side of the vehicle.

8. On the bottom of the fascia, push back and pull on the fascia to release the two plastic tabs (Fig.K) attaching the bottom of the fascia to the splash panel.



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Fig.L



Fig.M

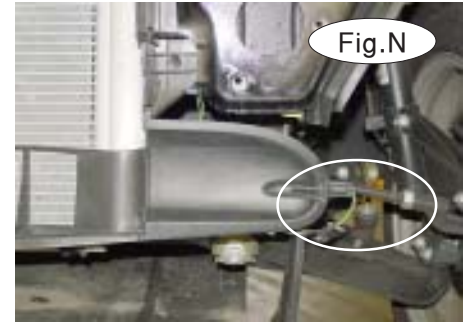


Fig.N

9. Remove the fascia first, pull out on both sides closest to the door (Fig.L). Then, lift and raise the fascia forward, clearing the headlights (Fig.M). Disconnect the turn signals and the side marker lights on each side before removing the fascia completely. *Note:* we recommend using two people to remove the fascia.

10. Temporarily remove the ambient temperature sensor (Fig.N).

11. Follow the yellow marker lines in Figure O for correct trimming of the radiator support on the driver side. Repeat for the other side.

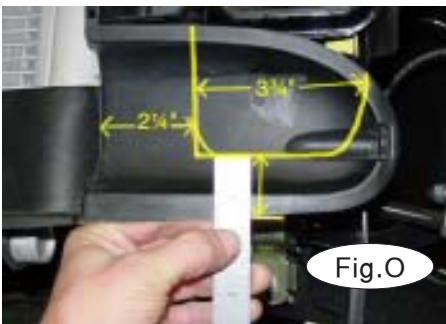


Fig.O



Fig.P



Fig.Q

12. On both sides, remove two 8mm bolts attaching the splash shield to the frame rails (Fig.P, Q). Allow the splash shield to hang down.

13. Remove the two front sway bar clamps by removing one 18mm nut per side (Fig.R).



Fig.R

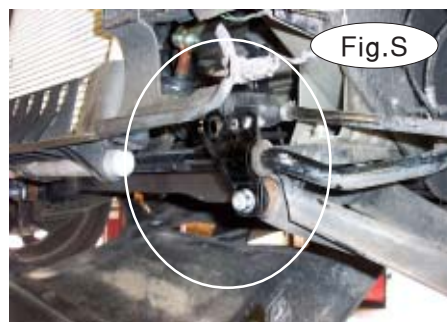


Fig.S



Fig.T

14. Replace the factory sway bar clamps with the supplied sway bar clamp weldment (Fig.S). Place the front and rear half of the clamp over the stud and bolt it into place using the factory nut removed in the previous step.

15. On both sides, bolt the top of the sway bar clamp together using the two supplied 1/4" x 1" bolts, flat washer, lock washers and nuts (Fig.S).

16. Remove the bumper core by removing three T40 Torx bolts per side (Fig.T).

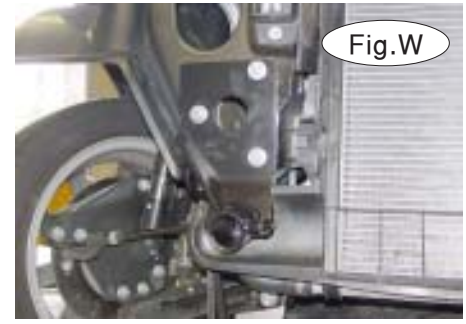
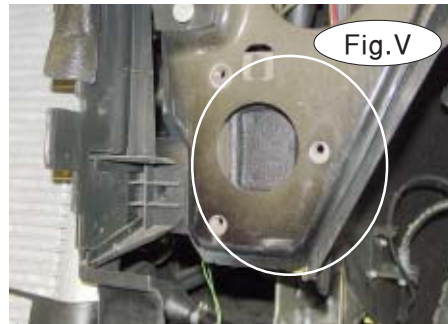
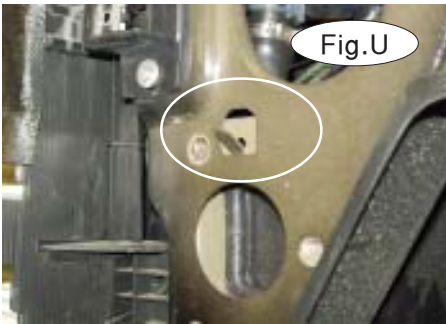


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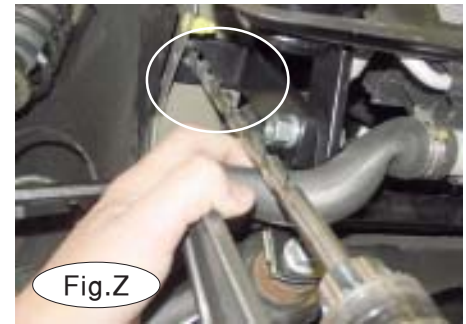
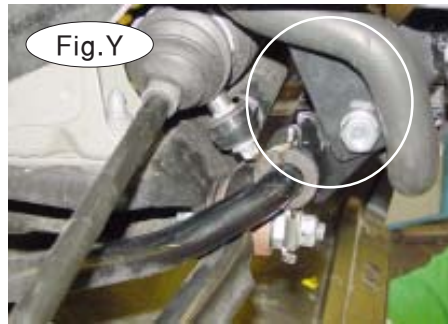
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17. Bend the bumper core hanger tabs on each side back against the frame (Fig.U).
18. Remove the two foam inserts located inside the ends of the frame rails (Fig.V). *Note:* these will not be replaced.
19. Starting with the passenger side, use the three supplied 8mm x 1.25 x 30mm bolts, fender washers and lock washers to bolt the main receiver brace to the ends of the frame rails using the existing weld nuts in the frame (Fig.W).
20. Place the supplied $\frac{1}{2}$ " x $1\frac{1}{2}$ " bolt through the lower support in the main receiver brace and the sway bar mount (Fig.X). Now, place the rear support over the end of the $\frac{1}{2}$ " x $1\frac{1}{2}$ " bolt with the upper part of the brace square against the bottom of the frame rail. Bolt into place using a lock washer and nut (Fig.Y). Torque to 56ft./lbs. *Note:* make sure the brace stays square against the bottom of the frame.



21. Using the hole in the rear support as a template, drill through the bottom of the frame rail (Fig.Z). *Note:* pull the radiator hose down and out of the way while drilling.
22. Now, place the $1\frac{1}{4}$ " x $1\frac{1}{2}$ " x $2\frac{3}{4}$ " nutted backing plate inside the frame rail (Fig.AA). Then, bolt through the rear support, frame rail and into the nutted backing plate (Fig.BB). Torque to 56ft./lbs.



23. Using a pair of pliers, break off the wire attached to the backing plate.

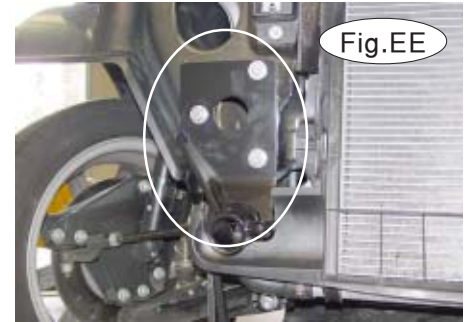
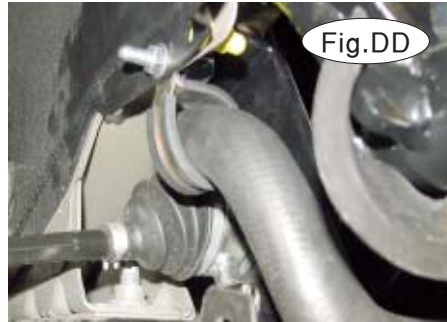
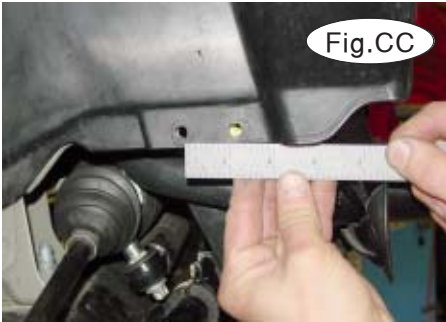


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24. Using a 1/4" drill, drill a hole through the lip on the frame rail 1 1/4" behind the front splash panel mounting point (Fig.CC). Place the 1 1/4" hose clamp around the radiator hose. Then, bolt through the hose clamp and the edge of the frame rail using a 1/4" x 1" bolt, lock washer and nut. Tighten against the radiator hose so it is not touching the main receiver brace or steering linkage (Fig.DD).

25. Repeat steps 18 through 22 for the driver side. *Note:* the hose clamp is only on the passenger side.

26. Remove the six 8mm bolts (3 per side) attaching the main receiver brace to the frame rails (Fig.EE).

27. Place the bumper core over the main receiver braces and bolt it into place with the 8mm bolts you removed in step 25 (Fig.FF).

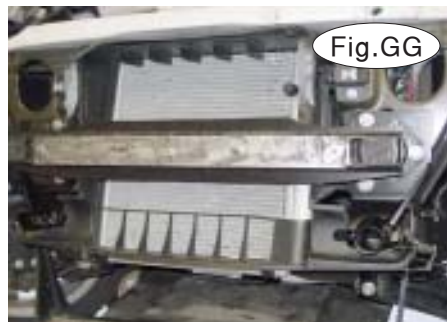
28. Remove the foam from the bumper core (Fig.GG). *Note:* use a scraper to remove the foam bumper core.

29. Reassemble the ambient temperature sensor, fascia, antenna and the upper and lower grilles, reversing steps 1 through 10.

30. Attach the safety cable and cable connectors to the front of the receiver braces, then insert the front arm braces into the receiver braces and twist 90 degrees to lock in place (Fig.HH).

31. Attach the other end of the 8" safety cables to the tow vehicle's safety cables and tow bar.

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



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.