



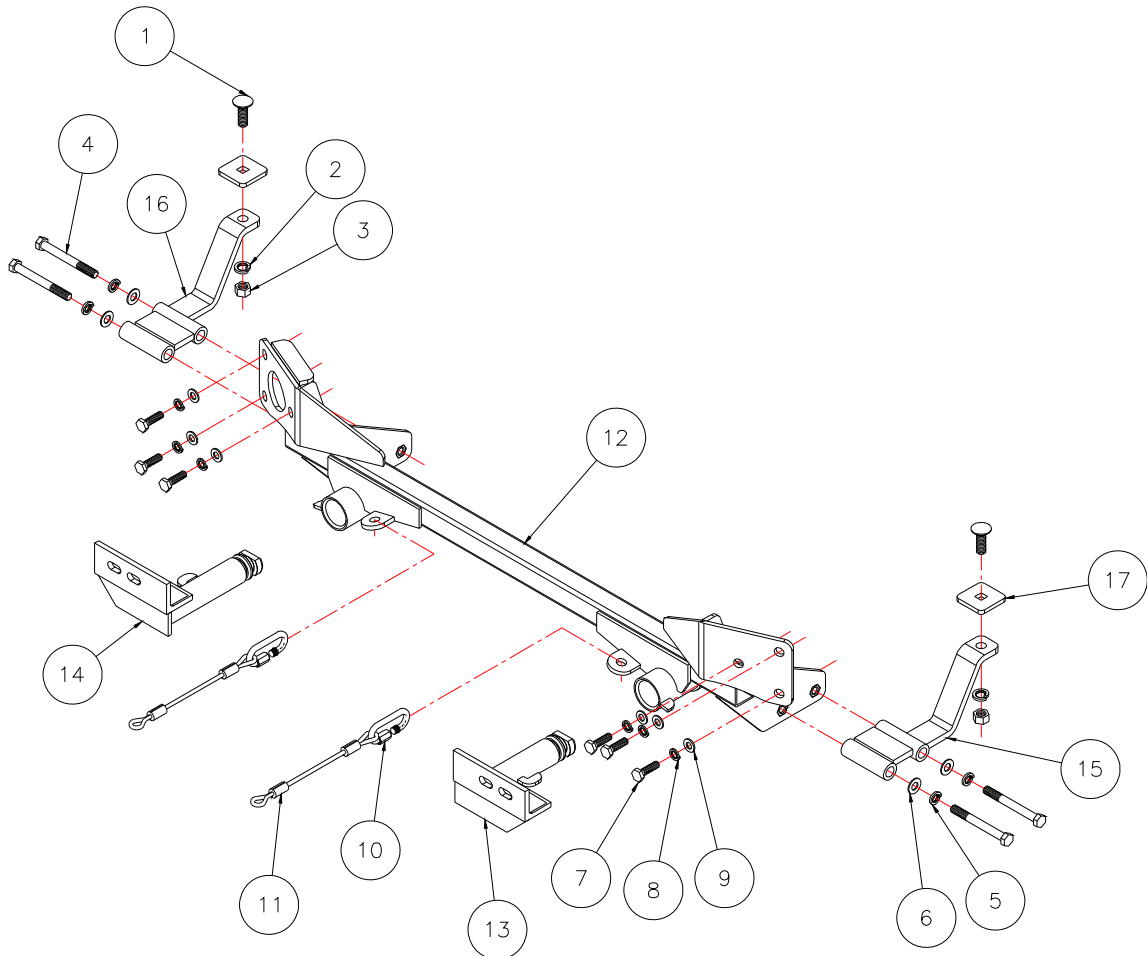
BASEPLATE KIT INSTALLATION INSTRUCTIONS

KIT# 521181-1

10/09/07
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.	Length	Width	Description	Part#
1	2	1 1/2"	1/2"	CARRIAGE BOLT	350362-00
2	2		1/2"	LOCK WASHER	350309-00
3	2		1/2"	NUT	350258-00
4	4	4"	7/16"	BOLT	350084-00
5	4		7/16"	LOCK WASHER	350307-00
6	4		7/16"	FLAT WASHER	350345-00
7	6	35mm	10mm	10mm x 1.25 x 35mm BOLT	356202-00
8	6		10mm	LOCK WASHER	355715-00
9	6		10mm	FLAT WASHER	355710-00
10	2			CABLE CONNECTOR	200008-00
11	2	8"		SAFETY CABLE	500646-08
12	1			MAIN RECEIVER BRACE WELDMENT	C-001350
13	1			DRIVER SIDE ARM WELDMENT	C-001772
14	1			PASSENGER SIDE ARM WELDMENT	C-001773
15	1			DRIVER SIDE REAR WELDMENT	C-001353
16	1			PASSENGER SIDE REAR WELDMENT	C-001334
17	2			BACKING PLATE	A-000189



BASEPLATE KIT INSTALLATION INSTRUCTIONS

KIT# 521181-1

10/09/07
KS

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

This is one of our EZ series brackets, which allows the visible front portion of the bracket to be rotated and easily removed from the front of the vehicle (Fig.A and Fig.B). The bracket kit consists of a main receiver brace, two rear braces, two removable front braces and a hard-ware pack. The main receiver brace mounts to the frame rails and the rear braces. The two rear braces mount to the main receiver brace and the frame rails. The removable front braces are inserted into the main receiver brace and rotated 90 degrees to lock them in place.

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.



Fig.A



Fig.B

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.



BASEPLATE KIT INSTALLATION INSTRUCTIONS

KIT# 521181-1

10/09/07
KS

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



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 five plastic fasteners that attach the fascia to the core support (Fig.C). *Note:* push down on the center of the plastic fasteners to remove them (Fig.C).

2. Next, on each side, remove one plastic fastener attaching the corner of the fascia to the fender well (Fig.D). *Note:* push down on the center of the plastic fastener to remove it.

3. On both sides, remove two 10mm (head) bolts attaching the splash shields to the frame rails (Fig.E).

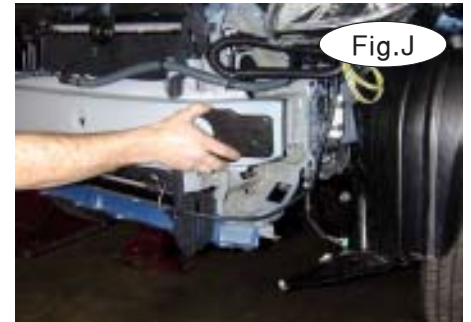


4. Remove nine 10mm (head) screws attaching the splash shields to the bottom of the fascia. Then, remove the splash shields (Fig.F).

5. Remove two 10mm bolts attaching the lower fascia to the core support (Fig.G).

6. On both sides, pull back the fender liner and disconnect the fog lights, if the vehicle is so equipped (Fig.H).

7. Remove the fascia by pulling out and forward on both corners (Fig.I).



8. Remove the two foam shock absorption pads by pulling forward on them (Fig.J). *Note:* these will not be reinstalled but should be put aside for reinstallation should the bracket ever be removed.

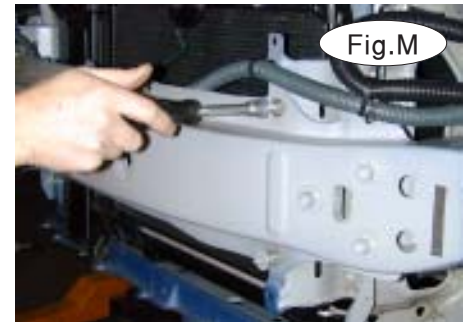
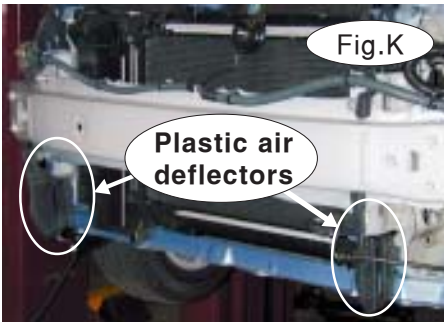


BASEPLATE KIT INSTALLATION INSTRUCTIONS

KIT# 521181-1

10/09/07
KS

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



9. Remove the four plastic air deflectors located between the bumper core and core support. Squeeze together on the back of the plastic tabs attached to the air deflectors to remove the air deflectors (Fig.K).

10. Next, remove six plastic fasteners attaching the wiring harness to the bumper core. Remove the fasteners by squeezing together on the backs of the plastic tabs (Fig.L).

11. On both sides, remove two 10mm (head) bolts attaching the bumper core to the metal air deflectors (Fig.M).



12. On both sides, remove three 14mm (head) bolts attaching the bumper core to the frame rails (Fig.N). Then remove the bumper core. *Note:* the bumper core will not be reinstalled. Retain the bumper core and attachment hardware so that it can be replaced if the bracket is ever removed.

13. On the passenger's side, remove two 10mm (head) bolts attaching the washer bottle to the frame rail and pull the washer bottle off to the side (Fig.O). This is necessary to allow access to the frame rail end on the passenger's side. *Note:* do not remove the washer bottle.

14. Now, remove four 14mm (head) bolts attaching one of the frame rail ends to the frame rail (Fig.P). Remove the frame rail end. Repeat for the other side.

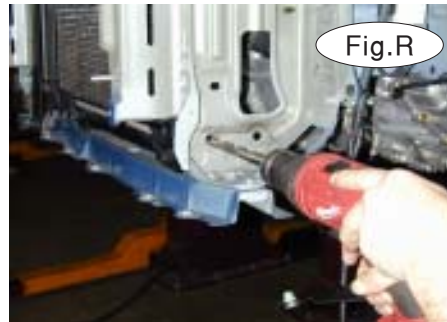
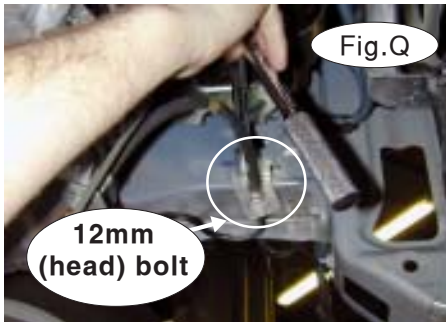


BASEPLATE KIT INSTALLATION INSTRUCTIONS

KIT# 521181-1

10/09/07
KS

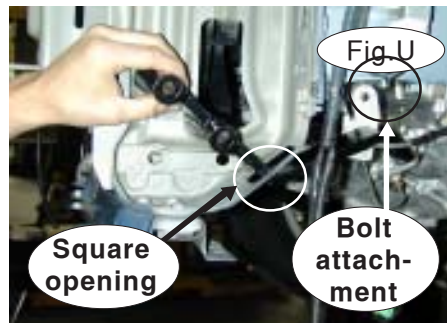
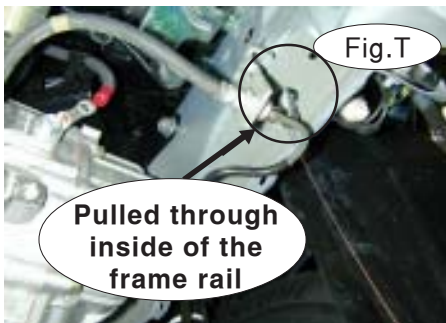
ROADMASTER, Inc. 6110 NE 127th Ave. Vancouver, WA 98682 1-800-669-9690 fax 360-735-9300 www.roadmasterinc.com



15. On the driver's side, remove one 12mm (head) bolt attaching the clutch slave cylinder hydraulic line to the frame rail (Fig.Q).

16. On both sides, drill out the two existing holes located on the lower radiator support (Fig.R). Use a 9/16" drill bit.

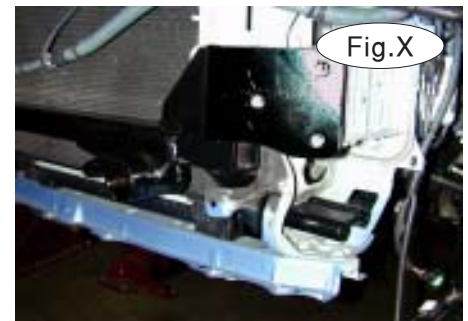
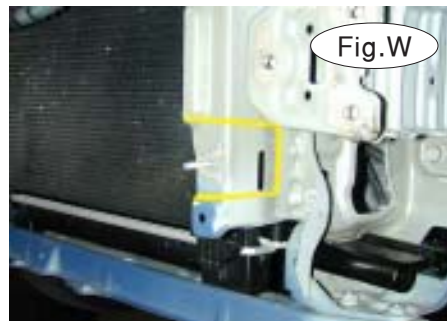
17. Fishwire one of the 1/2" x 1 1/2" carriage bolts and 1/4" x 2" x 2" square hole backing plates. Place through one of the openings in the front of the frame rail (Fig.S). Next, fishwire through the existing hole located approximately 2" inside of the frame rail (Fig.T). Repeat for the other side.



18. Place the driver's side rear brace through the square opening in the radiator support and over the 1/2" bolt you fishwired in the previous step (Fig.U). Bolt into place using the 1/2" lock washer and nut (Fig.V). Leave finger tight. Repeat for the passenger's side.

19. Replace the frame rail ends and the washer bottle bolts, reversing steps 12 and 13. Torque the frame rail end bolts to the specifications listed at the end of these instructions.

20. Before installing the main receiver brace trim or remove the metal air deflectors on each side. If trimming, use the yellow marker line in Figure W as a reference. *Note:* if you remove the metal air deflectors, you will not be able to reinstall the plastic air deflectors.



21. Now place the main receiver brace over the frame rails and between the radiator and radiator support (Fig.X).



BASEPLATE KIT INSTALLATION INSTRUCTIONS

KIT# 521181-1

10/09/07
KS

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

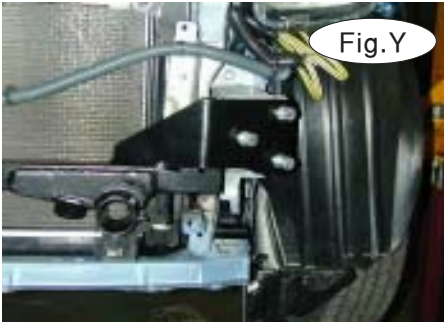


Fig.Y



Fig.Z

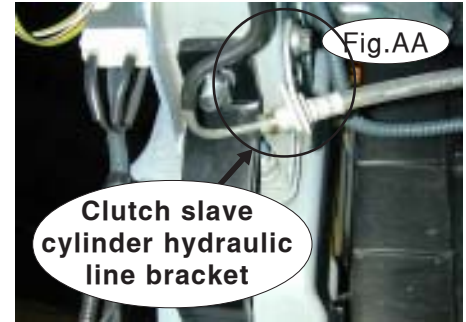


Fig.AA

Clutch slave cylinder hydraulic line bracket

22. Bolt the main receiver brace to the frame rail ends using the three supplied 10mm x 1.25 x 35mm bolts, 10mm plate washers and lock washers (Fig.Y) on each side.

23. Next, bolt through the rear brace, the radiator support and into the weld nuts in the main receiver brace using the two supplied 7/16" x 4" bolts, flat washers and lock washers (Fig.Z). Repeat for the other side.

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

25. Now, replace the clutch slave cylinder hydraulic line you removed in step 15. Note: if the hydraulic line is touching the nut, bend the bracket until it no longer touches the nut (Fig.AA).

26. To accommodate the main receiver brace, trim the fascia on both sides. Also, trim the center cross brace. Refer to Figure BB. The grill can be removed or trimmed. Use the yellow marker line in Figure BB as a guide for trimming.

27. Reassemble the wiring harness, plastic air deflectors, fascia and the splash shields, reversing steps 1 through 10.

28. Insert the front braces into the main receiver braces and twist 90 degrees to lock. Attach the 8" safety cables with the cable connectors (Q-Links) to the front of the receiver braces (Fig.CC). Attach the ends of the safety cables to the tow vehicle's safety cables and tow bar.

29. Install the tow bar to the mounting brackets according to the manufacturer's instructions.

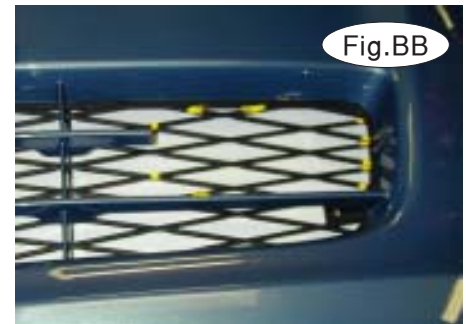


Fig.BB



Fig.CC

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.