



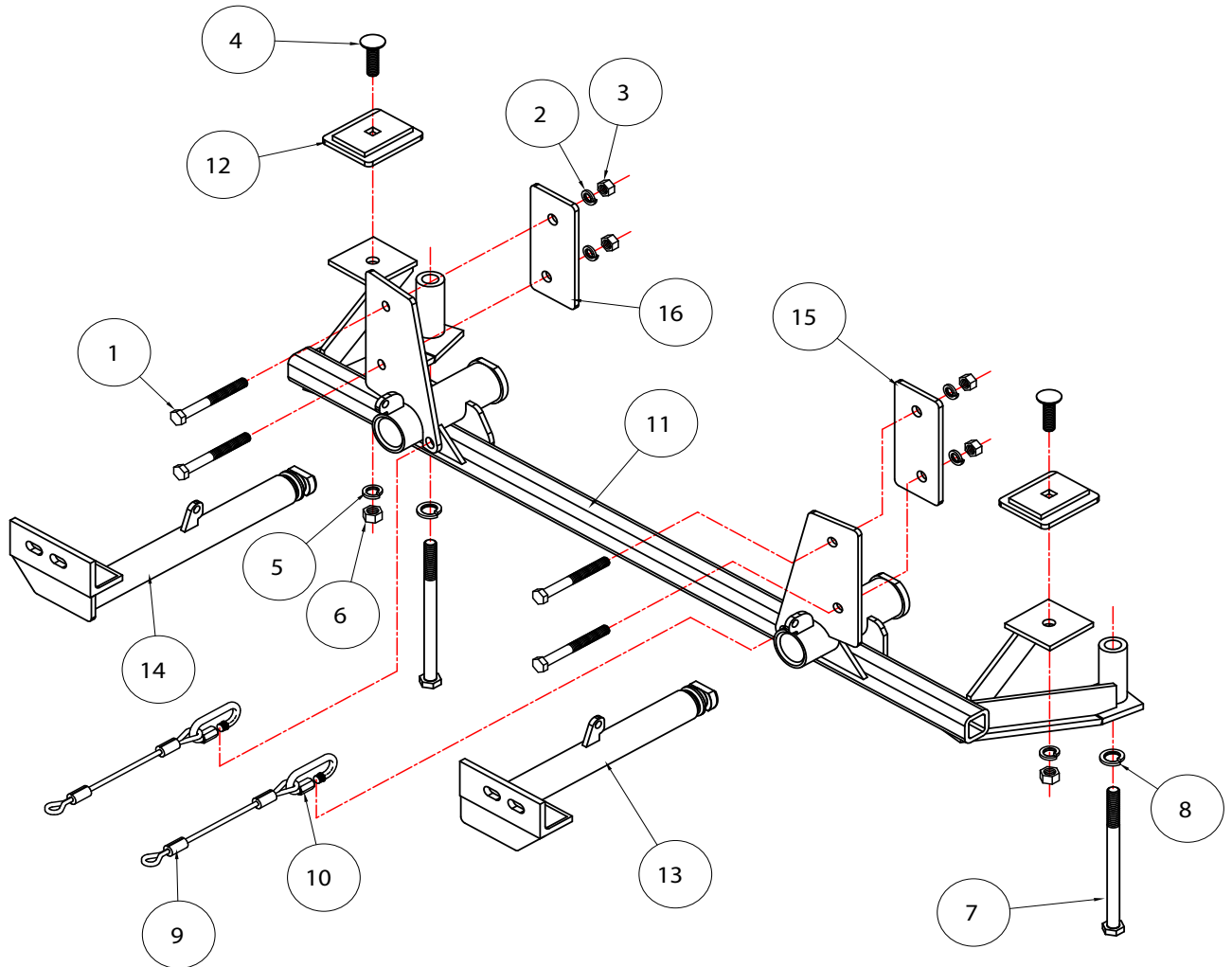
BASEPLATE KIT INSTALLATION INSTRUCTIONS

KIT# 523133-5

02/16/05

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

ROADMASTER, INC.



Item	Qty.	Length	Width	Description	Part #
1.....	4	4"	7/16"	BOLT	350084-00
2.....	4		7/16"	LOCK WASHER.....	350307-00
3.....	4		7/16"	NUT.....	350256-00
4.....	2	1 3/4"	1/2"	CARRIAGE BOLT	350363-00
5.....	2		1/2"	LOCK WASHER.....	350309-00
6.....	2		1/2"	NUT.....	350258-00
7.....	2	200mm	14mm	14mm X 2.0 X 200mm BOLT	355910-20
8.....	2		14mm	LOCK WASHER.....	355740-00
9.....	2	8"		SAFETY CABLES	500646-08
10.....	2			CABLE CONNECTOR	200008-00
11.....	1			MAIN RECEIVER BRACE WELDMENT.....	C-001208
12.....	2			BACKING PLATE WELDMENT	C-001211
13.....	1			DRIVER SIDE ARM WELDMENT.....	C-001213
14.....	1			PASSENGER SIDE ARM WELDMENT	C-001214
15.....	1			DRIVER SIDE REAR BACKING PLATE.....	A-001939
16.....	1			PASSENGER SIDE REAR BACKING PLATE	A-001940



BASEPLATE KIT INSTALLATION INSTRUCTIONS

KIT# 523133-5

02/16/05

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

This is one of our EZ series brackets, which allows the visible front portion of the brackets to be easily removed from the front of the vehicle (Fig.A and Fig.B). The bracket consists of a main receiver brace, two removable front bracket arms, and a hardware pack.

The main receiver brace mounts to the bumper core, the frame, and the subframe. The removable front bracket arms fit into the main receiver brace.

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 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.



BASEPLATE KIT INSTALLATION INSTRUCTIONS

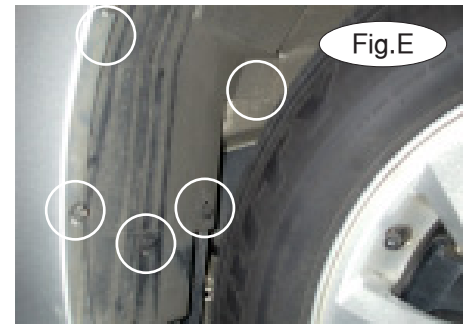
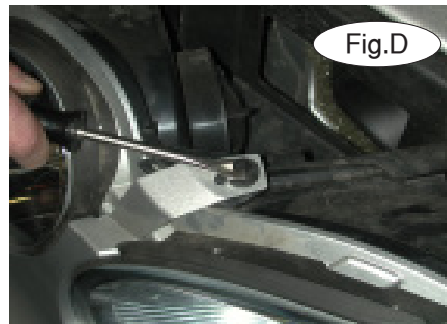
KIT# 523133-5

02/16/05

ROADMASTER, Inc. 6110 NE 127th Ave. Vancouver, WA 98682 360-896-0407 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. Start by removing six plastic fasteners across the front of the fascia (Fig.C), and one plastic fastener (on each side) between the headlights (Fig.D).

2. Remove five 7mm (head) bolts, on each side, holding the fender liner to the fascia, frame rail and splash shield (Fig.E).



3. On each side, remove two 7mm bolts on the lower front of the fascia (Fig.F). Then, remove four plastic fasteners attaching the center splash shield to the fascia (Fig.G), and three 10mm bolts attaching the rear of the splash shield to the radiator support (Fig.H).

4. Pull one of the fender liners away from the fascia (Fig.I).



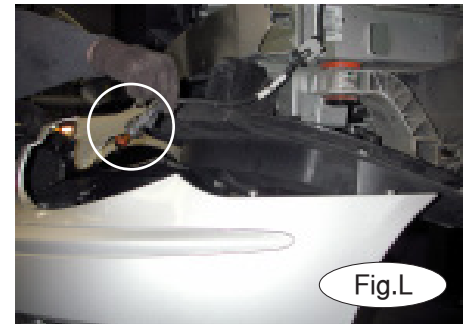
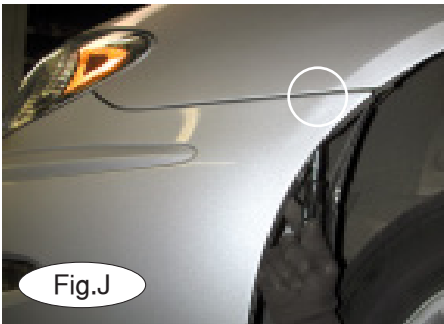


BASEPLATE KIT INSTALLATION INSTRUCTIONS

KIT# 523133-5

02/16/05

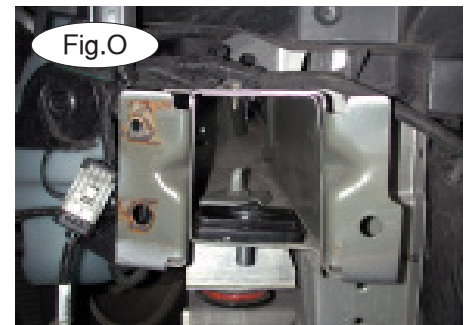
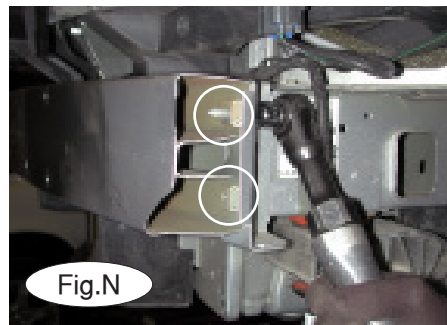
ROADMASTER, Inc. 6110 NE 127th Ave. Vancouver, WA 98682 360-896-0407 fax 360-735-9300 www.roadmasterinc.com



5. With the fender liner pulled to one side, remove two 10mm nuts holding the fascia to the fender. One nut is located at the edge of the fender well (Fig.J); the other is located about a foot in from the fender well. Figure K shows the location of the fasteners for both nuts, after the nuts have been removed.

Repeat for the other side.

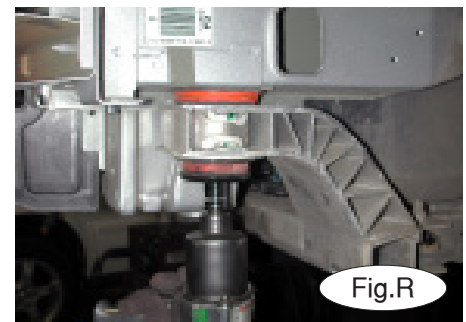
6. Unplug the turn signal lights from both sides (Fig.L). Pull forward and down to remove the fascia.



7. Remove the splash shield – Remove one plastic fastener on each side of the splash shield (Fig.M), and pull forward to detach the splash shield from the center tab.

8. Remove the bumper core by removing three 13mm head bolts on each side. The first two bolts are on the outside (Fig.N); the third is approx. a foot from the outside.

9. Position one of the supplied 3 1/2" x 3" backing plates, with a 1/2" x 1 3/4" carriage bolt, into the existing hole in the front of the frame, at the bottom of one of the frame rails (Fig.O). Repeat for the other side.



10. Reattach the bumper core, reversing step 8 (Fig.P).

11. Support the subframe (Fig.Q).

12. Remove an 18mm (head) front subframe bolt, as well as a bushing cup, from each side (Fig.R).

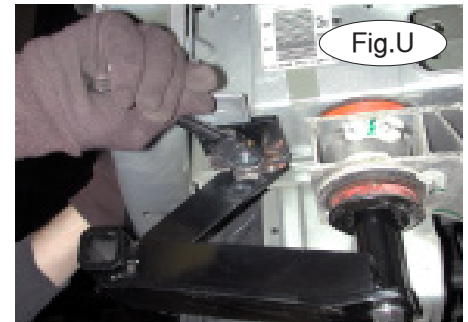
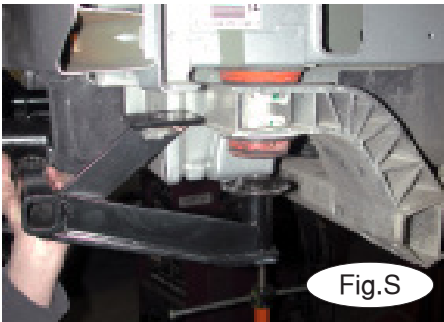


BASEPLATE KIT INSTALLATION INSTRUCTIONS

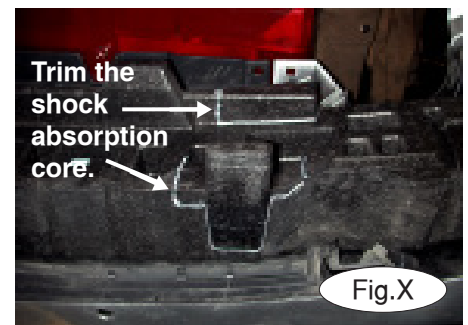
KIT# 523133-5

02/16/05

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



13. Bolt the main receiver brace to the subframe and the frame rail – align the holes in the main receiver brace over the holes for the front subframe bolts you removed in the previous step, and also under the carriage bolts you positioned in step 9 (Fig.S). Temporarily hold the bracket in place by threading a 1/2" nut onto both of the carriage bolts.
14. Set one of the bushing cups you removed in step 12 between the main receiver brace and the subframe. Slide a 14mm lock washer onto one of the supplied 14mm x 2.0 x 200mm bolts. Apply thread lock to the bolt, then thread the bolt through the rear support of the main receiver brace and into the subframe (Fig.T). Repeat for the other side.
15. Remove the two 1/2" nuts over the carriage bolts in the frame rails, slide one of the supplied 1/2" lock washers onto each carriage bolt, and thread the 1/2" nuts back in place (Fig.U).
16. Torque all bolts to the specifications at the bottom of these instructions.
17. Remove the subframe support.



18. Attach the main receiver brace to the bumper core – Using the **top hole** in the receiver brace as a template, drill a 1/2" through the front and rear of the bumper core and, to allow clearance for the top mounting bolt, approx. 3/4" of an inch into the plastic hood latch support. *Note:* To maintain structural integrity, do not drill completely through the hood latch support. Repeat for the other side.
19. Now, using the **lower hole** in the bracket brace as a template, drill a 1/2" hole through the front and rear of the bumper core. Repeat for the other side.
20. The backing plates for the bumper core mounting bolts are specific to one side only. Select the backing plate which matches the pattern for the driver side. Insert the backing plate behind the bumper core on the driver side (Fig.W). *Note:* be careful to move the wiring harness out of the way. Then, bolt through the main brace, bumper core and backing plate with one of the supplied 7/16" x 4" bolts, lock washers and nuts. Thread the other bolt, lock washer and nut into place, then repeat for the passenger side.
21. Torque all bolts to the specifications at the bottom of these instructions.
22. Before reattaching the fascia, trim the shock absorption core (on each side) to accommodate the bracket, as indicated by the white marker lines in Figure X.



BASEPLATE KIT INSTALLATION INSTRUCTIONS

KIT# 523133-5

02/16/05

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

23. The grill will have to be trimmed on each side – one vertical rib and a section of both horizontal ribs – in order to allow the removable front bracket arms to extend through it. Use the white marker lines in Figure Z as a reference.

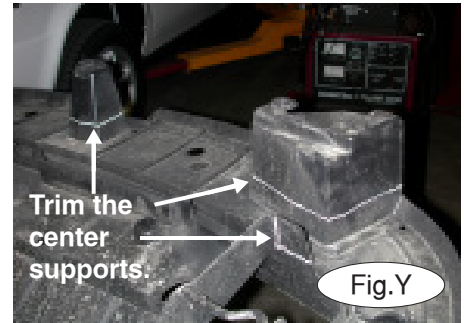
24. Reinstall the fascia, reversing steps 1 through 6.

25. Reinstall the splash shield after you have reinstalled the fascia. The center supports on the splash shield will have to be removed in order to accommodate the bracket – use the white marker lines in Figure Y as a reference. Reattach the splash shield to the fascia.

26. Insert the removable front braces into the main receiver brace and twist 90 degrees to lock. Attach the 10" safety cables with the cable connectors (Q-Links) to the front of the receiver braces.

27. Attach the ends of the safety cables to the tow vehicle's safety cables and tow bar.

28. Install the tow bar to the mounting bracket according to the manufacturer's instructions.



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.