



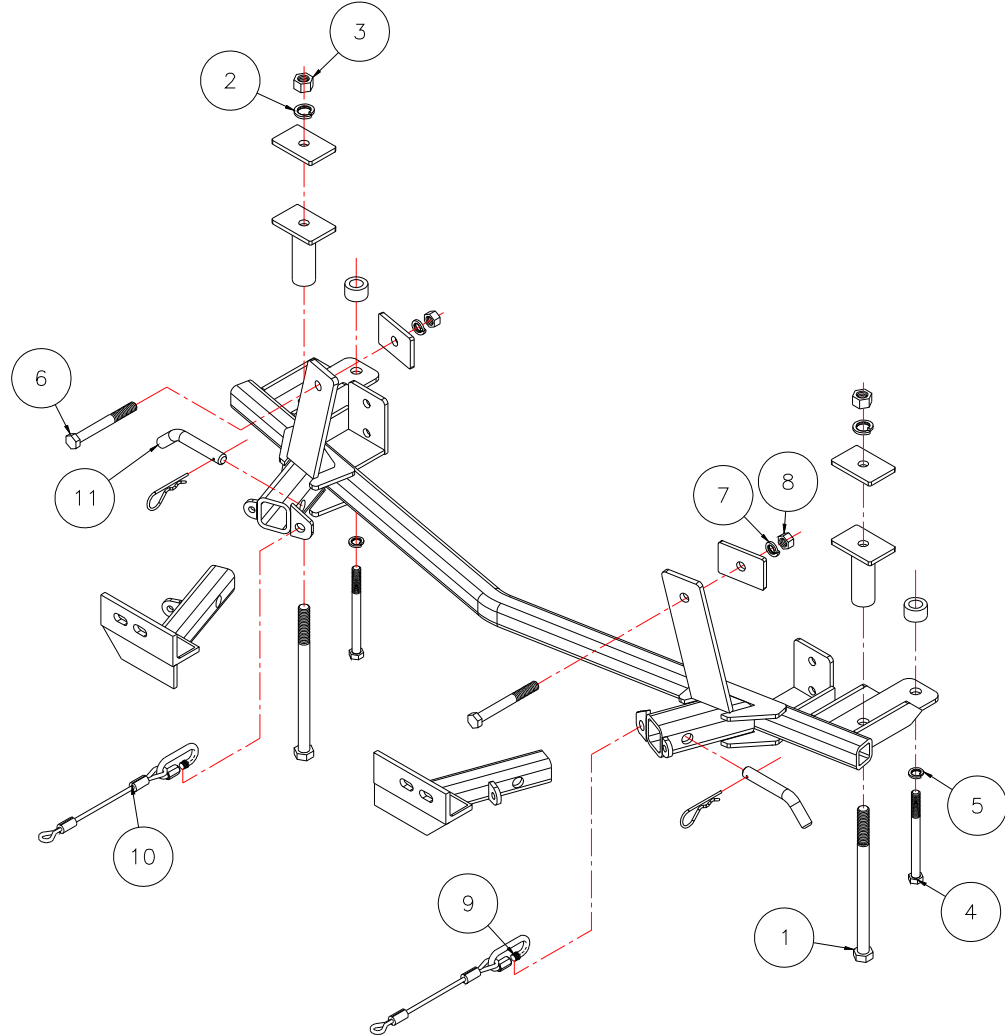
BASEPLATE KIT INSTALLATION INSTRUCTIONS

KIT# 3124-1

1/07/08

KS

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



ITEM	QTY	Length	Width	HARDWARE	PART NO.
1	2	10"	5/8"	BOLT	350381-00
2	2		5/8"	LOCK WASHER	350313-00
3	2		5/8"	NUT	350262-00
4	2	160MM	.14MM	14MM x 2.0MM x 160MM	355910-16
5	2		14MM	LOCK WASHER	355740-00
6	2	4 1/2"	1/2"	BOLT	350106-00
7	2		1/2"	LOCK WASHER	350309-00
8	2		1/2"	NUT	350266-00
9	2			CABLE CONNECTOR	200008-00
10	2	8"	8"	CABLE	500646-08
11	2			DRAW PIN/SPRING PIN	357035-00



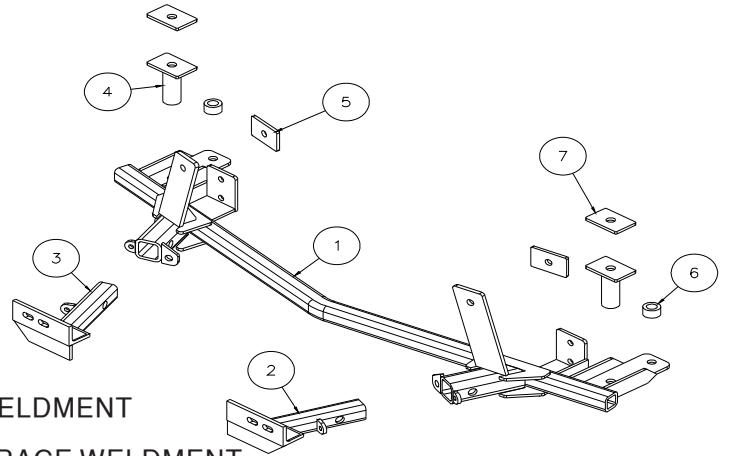
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ITEM	QTY	PART NO.	ASSEMBLY
1	1	C-000892	RECEIVER BRACE WELDMENT
2	1	C-000893	DRIVER SIDE ARM BRACE WELDMENT
3	1	C-000894	PASSENGER SIDE ARM BRACE WELDMENT
4	2	C-000903	BACKING PLATE WELDMENT
5	2	A-000147	1/4" x 2" x 3" BACKING PLATE
6	2	A-000559	1 1/4" O D x 3/4" x 250 WALL THICK

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
- Use lock washers on all fasteners

WARNING

Failure to follow the below warnings and the installation instructions may result in voiding your warranty, property damage, the loss of your towed vehicle, personal injury or even death.

- Installation of most baseplates requires moderate mechanical aptitude and skills. We strongly recommend professional installation by an experienced installer.
- The installer must read the instructions and use all bolts and parts supplied.
- Use Loctite® Red on all bolts used for mounting this baseplate.
- Every 3,000 miles, the owner must inspect the fasteners for proper torque, according to the bolt torque requirements chart on the last page of these instructions. The owner must also inspect all mounting points for cracks or other signs of fatigue every 3,000 miles.
- The owner must check the vehicle manufacturer's instructions for the proper procedure(s) to prepare the vehicle for towing. Some vehicles must be equipped with a transmission lube pump, an axle disconnect, driveline disconnect or free-wheeling hubs before they can be towed. Failure to properly equip the vehicle will cause severe damage to the transmission.
- Do not weld. This baseplate is designed to be bolted to the vehicle. Welding will void the warranty.
- Do not use this document for custom fabrication, as it may not show all parts or structural components could result in loss of the towed vehicle.
- 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.
- If running changes were made by the vehicle manufacturer after this kit was designed, some bolts or other fasteners in the hardware pack may no longer be the correct size. It is the installer's responsibility to verify this kit is securely fastened to the vehicle and fitted with the correct hardware to account for these changes.
- 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 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, motorhome and/or towed vehicle.
- 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. Refer to the cable instructions for proper routing. Failure to leave enough slack in the safety cables, or failure to connect the safety cables frame to frame, will result in 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.
- Upon final installation, the installer must inspect the baseplate to ensure adequate clearance, particularly around hoses, air conditioner lines, radiators, etc.
- 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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This bracket kit is one of our MX series, which is hidden for the most part behind the front bumper fascia and grille (Fig.A). The kit consists of a main receiver brace, two front braces and a hardware kit. The front braces install in the receiver brace and are pinned in place with drift pins and spring clips. Start by laying the kit out and making sure all the components are present.



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. The bumper fascia and lower splash

panels will have to be removed to install the main brace. Start at the top of the fascia by removing five plastic fasteners from the top of the fascia (Fig.B), then move to the fender wells and remove five more (7mm head) fasteners from each fender well (Fig.C,D).



2. Move under the fascia and remove two fasteners (7mm head) under the fascia on each side (Fig.E) and six more plastic fasteners under the middle of the fascia (Fig.F).

3. Pull the splash panels away (Fig.G), then remove one 10mm head bolt and nut from each fascia fender junction (Fig.H).

4. Disconnect the driving lights on each side (Fig.I) then pull forward to remove and set aside the fascia.





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Fig.J



Fig.K

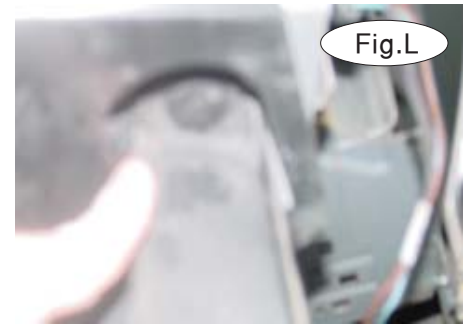


Fig.L

5. Before removing the large radiator air deflector that is mounted behind the fascia mark it as shown in (Fig.J and K). This will aid in trimming to fit around the receiver brace later. Move beneath and remove two plastic fasteners (Fig.L) and three bolts (10mm head) (Fig.M) from the bottom of the air deflector plastic then remove. Also, remove the energy absorption foam from the front of the bumper core at this time.



Fig.M



Fig.N



Fig.O

6. The top plastic deflector located near the isolation damper will have to be trimmed as shown for brace clearance on both sides (Fig.N).

7. Support or block the subframe (Fig.O).



Fig.P



Fig.Q



Fig.R

8. Remove the small auxiliary brackets located on each side bolted to the frame and the isolation dampers (Fig.P,Q) (two 13mm head bolts and one 15mm nut). These braces will be replaced by the receiver brace.

9. Locate the large hole in the bottom of the frame on each side, center punch the top of the frame in the middle of the hole and drill a 17/64" hole through the top of the frame on each side (Fig.R).



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Fig.S



Fig.T



Fig.U

10. Remove the suspension support bolts on each side (18mm head) (Fig.S).

11. Hold the main receiver brace in position under the bumper core and over the isolation dampeners (Fig.T) then bolt through the brace into the subframe on each side with 14mm x 2.0 x 160 mm bolts (Fig.U). Be sure to use the $\frac{3}{4}$ " spacers between the brace and the suspension damper on each side (Fig.V).



Fig.V



Fig.W



Fig.X

12. Now insert the upper spacer backing plate weldment between the brace and frame on each side and line up with the holes drilled in the frames in step 10 (Fig.W). Bolt through the main receiver brace, spacers, frame and top 2" x 3" backing plates with 5/8" x 10" bolts, lock washers and nuts (Fig.X,Y).



Fig.Y



Fig.Z

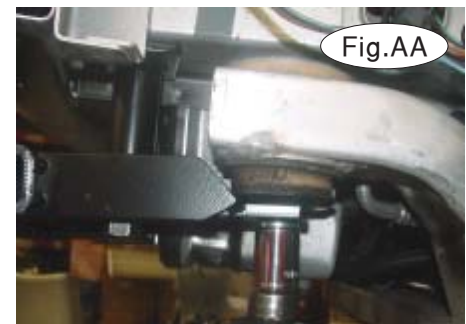


Fig.AA

13. Bolt through the front of the receiver brace on each side with the stock 13mm (head) bolts removed in step 9 (Fig.Z).

14. Tighten all the mounting bolts to the torque specifications on the last page.



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Fig. AA



Fig. BB



Fig. CC

15. Using the two upper receiver mounts as a drill guide, drill through the bumper core using a plate behind the bumper core to protect the radiator (Fig. AA). *Note:* be sure the wiring harness is also clear before drilling (Fig. BB).

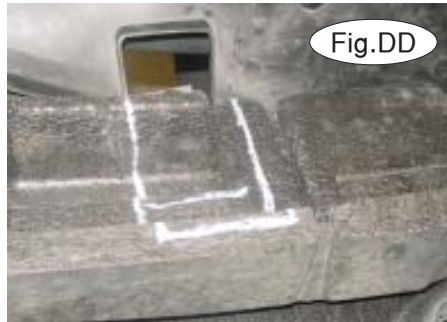


Fig. DD



Fig. EE

16. Bolt through the upper receiver mounts and the bumper core with 1/2" x 4 1/2" bolts, 2" x 3" backing plates, lock washers and nuts (Fig. CC).

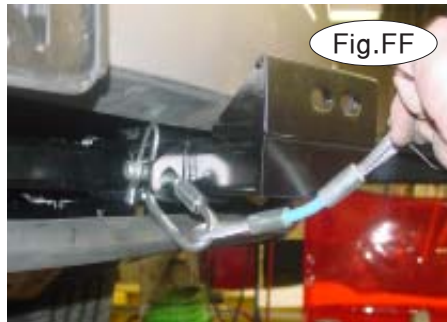


Fig. FF



Fig. GG

17. Trim the lower air deflector plastic marked in step 6 to fit around the receiver brace then reinstall reversing step 5 (Fig. DD).

18. Trial fit the energy absorbing foam then trim to fit around the upper receiver brace mounts (Fig. DD).

19. Reinstall the bumper fascia reversing steps 1 through 4.

20. Install the front braces into the receivers and secure with 5/8" draw pins and 3/16" spring pins (Fig. FF).

21. Connect one end of the 8" safety cables to the receiver brace as shown with the included cable connectors and the other end to the tow vehicle's safety cables and tow bar (Fig. GG).

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.