

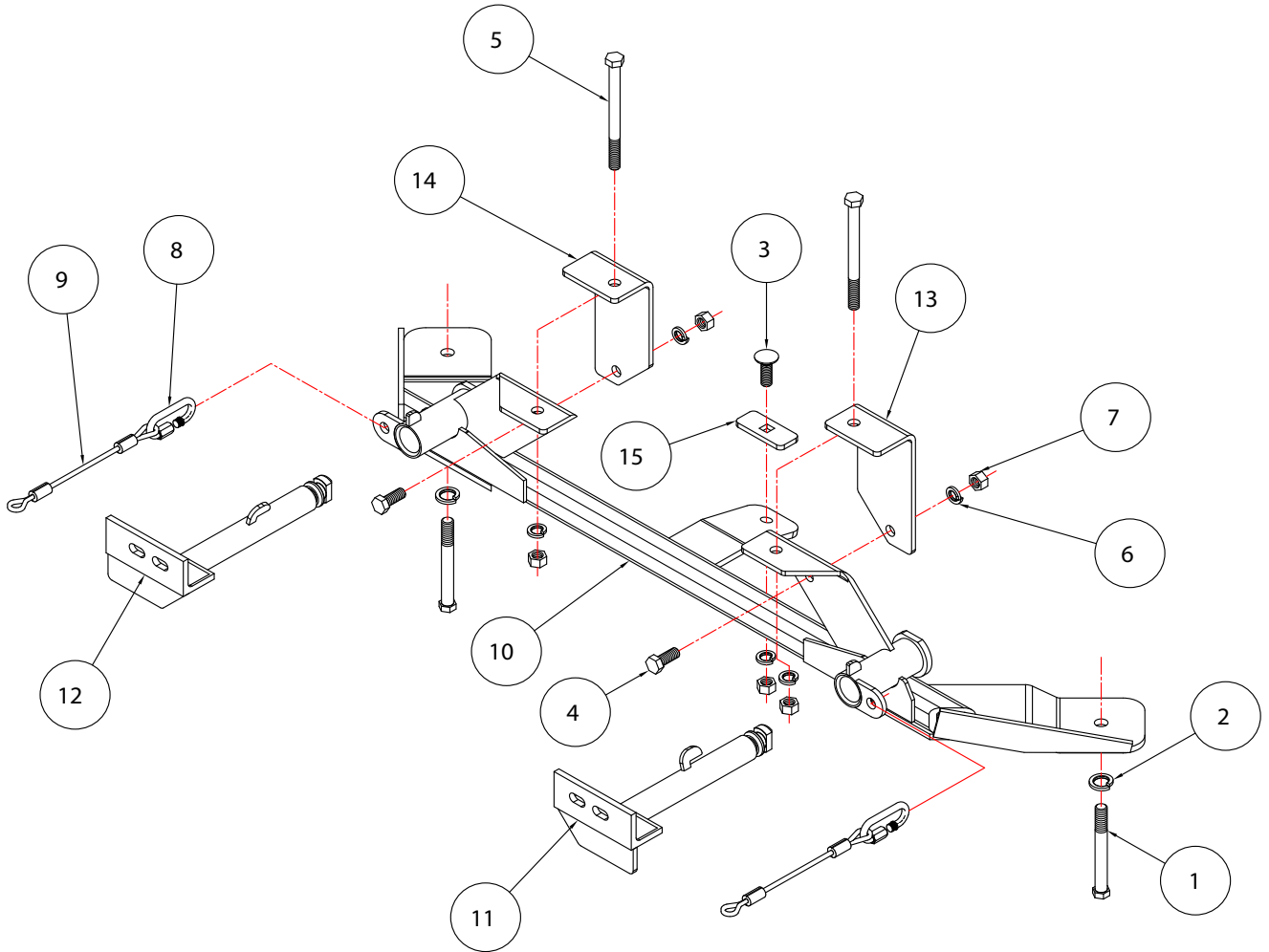


BASEPLATE KIT INSTALLATION INSTRUCTIONS

KIT# 523143-1

07/03/18
KS

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



Item	Qty.	Length	Width	Description	Part #
1.....	2.....	140mm.....	14mm	14mm x 2.0 x 140 BOLT	355910-00
2.....	2.....	.....	14mm	LOCK WASHER	355740-00
3.....	1.....	1 1/2"	1/2"	CARRIAGE BOLT	350362-00
4.....	2.....	1 1/4"	1/2"	BOLT.....	350094-10
5.....	2.....	6"	1/2"	BOLT.....	350109-00
6.....	5.....	.....	1/2"	LOCK WASHER	350309-00
7.....	5.....	.....	1/2"	NUT.....	350258-00
8.....	2.....	.....	.....	CABLE CONNECTOR.....	200008-00
9.....	2.....	8" .....	.....	SAFETY CABLE	500646-08
10.....	1.....	.....	.....	MAIN RECEIVER BRACE WELDMENT	C-001371
11.....	1.....	.....	.....	DRIVER SIDE ARM WELDMENT	C-001372
12.....	1.....	.....	.....	PASSENGER SIDE ARM WELDMENT.....	C-001373
13.....	1.....	.....	.....	DRIVER SIDE UPPER PLATE	B-000933
14.....	1.....	PASSENGER SIDE UPPER PLATE.....	B-000934
15.....	1.....	1/4" x 1 1/4" x 3" BACKING PLATE.....	A-000691



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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 tubular front braces and a hardware pack.

The main receiver brace mounts to the subframe, radiator support and bumper core. The tubular front braces are inserted into the receiver braces and rotated 90 degrees to lock them in place.

Before starting the installation, lay out the kit components in order. 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.

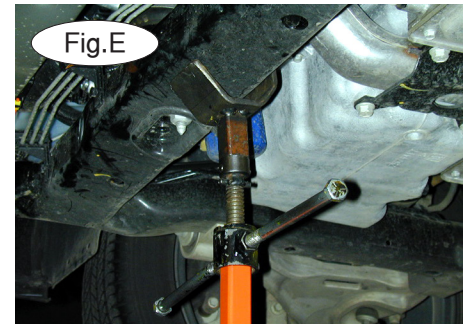
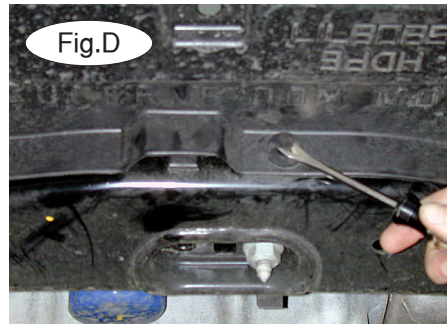


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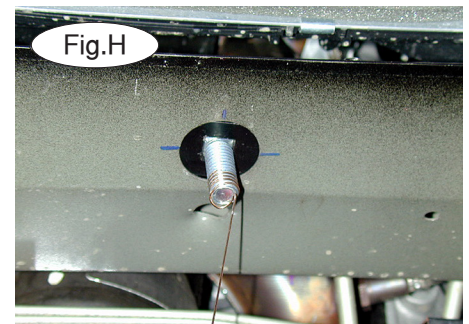
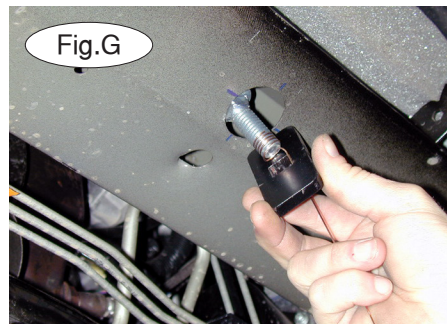
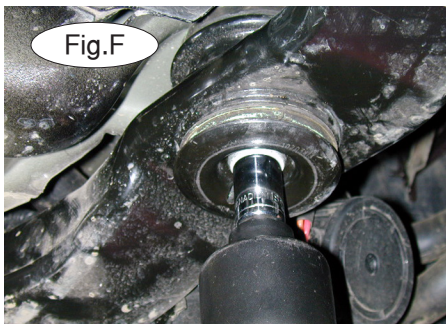
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1. **Important:** please use all supplied bolts and parts and read all instructions carefully before beginning this installation. The majority of questions you may have can be answered within the text, and proper installation will ensure safe and secure travel. Now, begin the installation. Start by removing eight plastic fasteners across the top of the radiator cover (Fig.C). Then, remove the radiator cover.

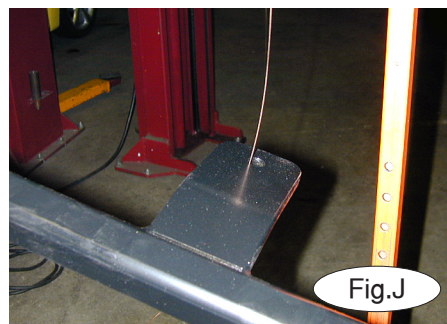
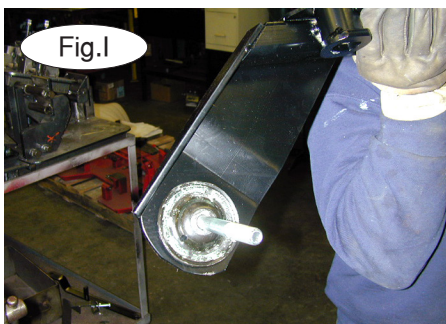
2. Next, remove the splash shield – remove nine plastic fasteners across the bottom of the splash shield (Fig.D), and two plastic fasteners at the bottom of each fender well.

3. Support the subframe (Fig.E).



4. Now, remove the two 18mm (head) front subframe bolts (one on each side – Fig.F), as well as the bushing cups.

5. Next, fishwire the $\frac{1}{4}$ " x $1\frac{1}{4}$ " x 3" backing plate and the $\frac{1}{2}$ " x $1\frac{1}{2}$ " carriage bolt into the hole in the center of the radiator support (Fig.G and Fig.H).



6. At each side of the main receiver brace, thread one of the 14mm x 2.00 x 140mm bolts and lock washers through the pre-drilled hole and through one of the bushing cups you removed in step 4 (Fig.I).

7. Extend the fishwire from the center hole in the radiator support to the center mounting point on the main receiver brace (Fig.J).

8. Lift the main receiver brace into position, over the two front subframe mounts, and bolt the main receiver brace into place (Fig.K). Torque the two 14mm x 2.00 x 140mm bolts to the specifications at the bottom of these instructions.



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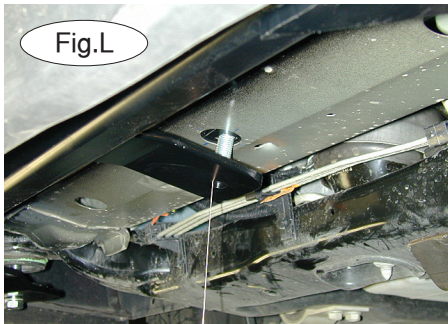


Fig.L



Fig.M

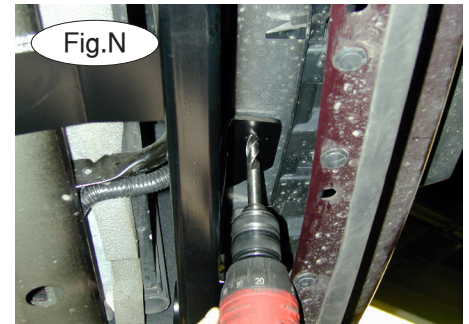


Fig.N

9. Remove the fishwire from the center mounting point (Fig.L). Then, thread a $\frac{1}{2}$ " nut and lock washer over the $\frac{1}{2}$ " x $1\frac{1}{2}$ " carriage bolt, and tighten the nut and lock washer (Fig.M) to attach the main receiver brace to the radiator support at the center mounting point.

10. On each side, use the upper mounting point of the main receiver brace (the pre-drilled hole) as a template, and drill entirely through the bumper core (Fig.N).

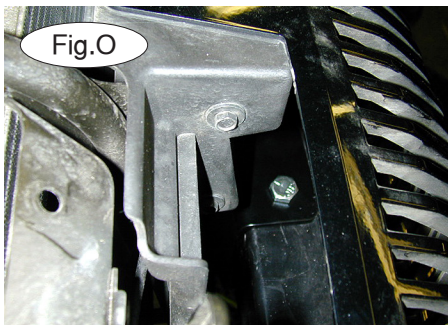


Fig.O

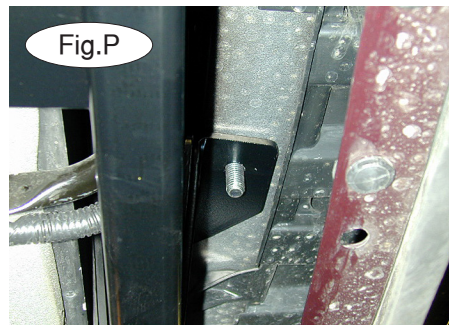


Fig.P

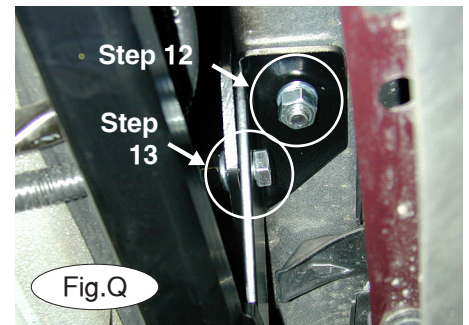


Fig.Q

11. Use the opening at the top of the grille to position the two L-brackets (each with two $\frac{9}{16}$ " holes) over the holes you drilled in step 10. Then, insert a $\frac{1}{2}$ " x 6" bolt through each L-bracket, the bumper core, and the main brace (Fig.O and Fig.P).

12. Thread a $\frac{1}{2}$ " lock washer and nut onto each bolt (Fig.Q).

13. Attach both backing plates to the main brace, using a $\frac{1}{2}$ " x $1\frac{1}{4}$ " bolt, a $\frac{1}{2}$ " lock washer and a $\frac{1}{2}$ " nut on each side (Fig.Q).

14. Tighten all bolts to the specifications at the bottom of these instructions.

15. The splash shield can be discarded or reinstalled. If the splash shield is reinstalled, trim it to accommodate the main receiver brace – use the yellow marker line in Figure R as a reference.

16. Reinstall the radiator cover, which you removed in step 1.

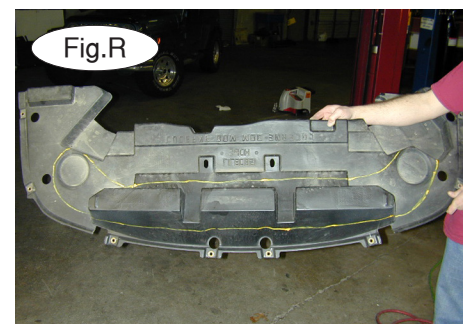


Fig.R



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17. Insert the tubular front braces into the main receiver brace, and twist 90 degrees to lock (Fig.S).

Note: Remove the tubular front braces when not towing, unless a cross bar or tow bar is in place.

Attach the safety cables with the cable connectors (Q-links) to the front of the tubular front braces (Fig.S). Attach the ends of the safety cables to the tow vehicle's safety cables and tow bar.

18. 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.