



BASEPLATE KIT INSTALLATION INSTRUCTIONS

KIT# 521557-1

02/25
RS

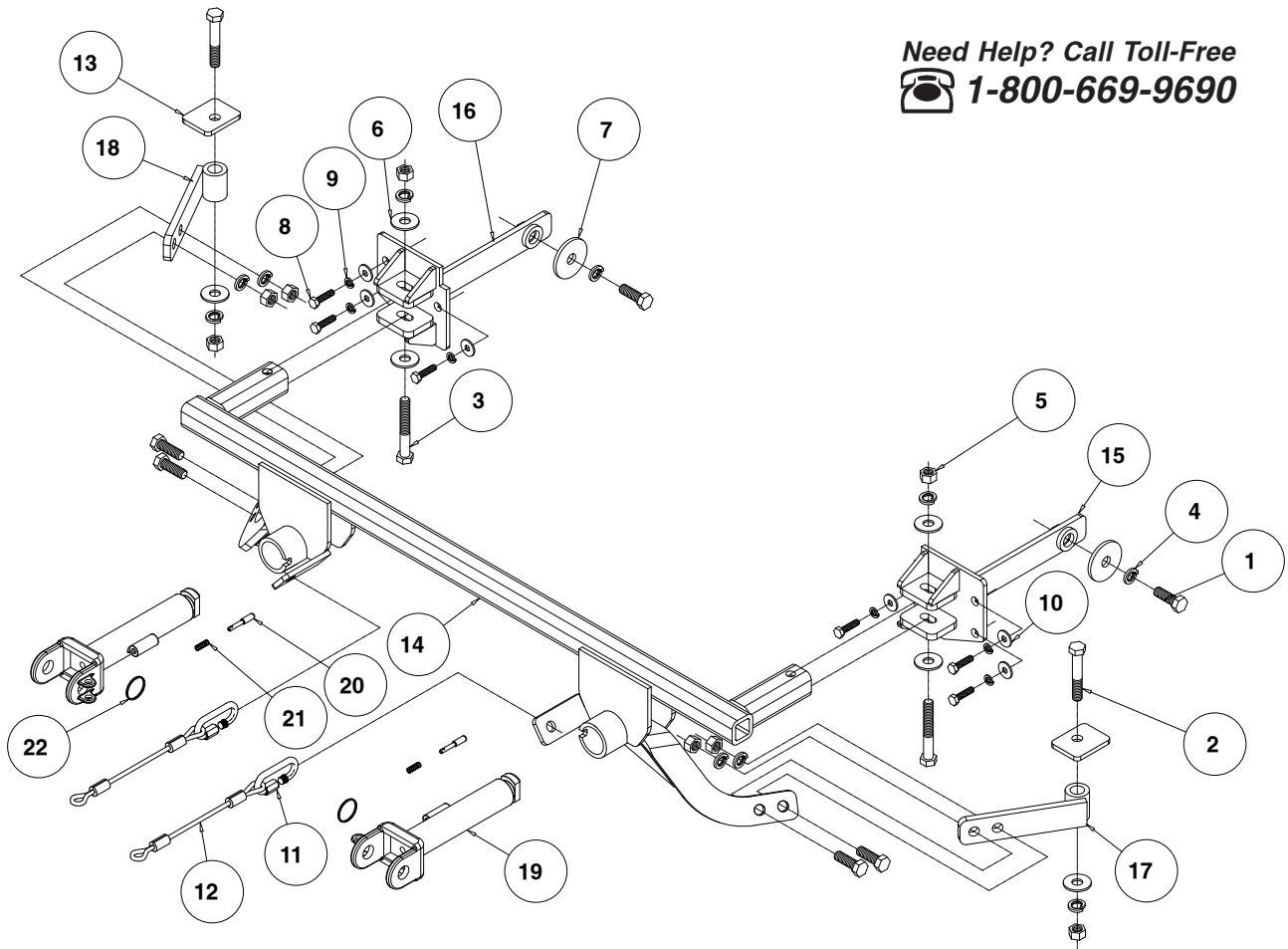
ROADMASTER, Inc.

6110 NE 127th Ave.

Vancouver, WA 98682

360-896-0407

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1-800-669-9690

ITEM..	QTY	NAME	MATERIAL
1.....	6	1/2" X 1 1/2" BOLT	350095-00
2.....	2	1/2" x 3" BOLT	350101-00
3.....	2	1/2" x 3 1/2" BOLT	350103-00
4.....	10	1/2" LOCK WASHER.....	350309-00
5.....	10	1/2" HEX NUT	350258-00
6.....	6	1/2" FLAT WASHER	350308-20
7.....	2	1/2" PLATE WASHER	A-003086
8.....	6	M8 x 1.25 x 30 mm BOLT.....	356001-00
9.....	6	M8 LOCK WASHER.....	355705-00
10.....	6	M8 FENDER WASHER.....	355702-00
11.....	2	QUICK LINK.....	200008-00
12.....	2	8" SAFETY CABLE	650646-08
13.....	2	3/16" x 2" x 2 1/2" BACKING PLATE.....	A-002161
14.....	1	MAIN RECEIVER.....	C-001343
15.....	1	DRIVER SIDE BRACE.....	C-001346
16.....	1	PASSENGER SIDE BRACE	C-001347
17.....	1	DRIVER SIDE LOWER BRACE.....	C-001348
18.....	1	PASSENGER SIDE LOWER BRACE	C-001349
19.....	2	ARM	C-002383
20.....	2	LOCK PIN.....	A-000008
21.....	2	SPRING.....	200146-00
22.....	2	RING	350520-00



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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 upper braces, two lower braces, two tubular removable front braces and a hardware pack. The main receiver brace mounts to the upper and lower braces. The upper braces mount to the frame rail and the main receiver brace. The lower braces mount to the sub frame and the main receiver brace. The tubular front arms 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 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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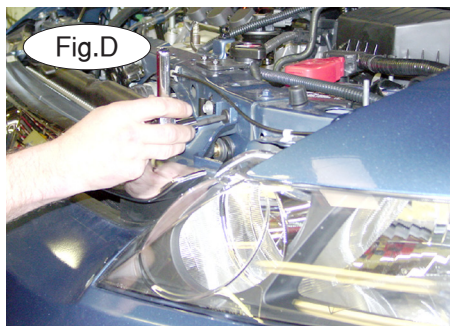
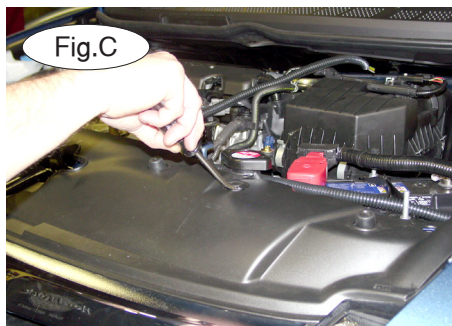
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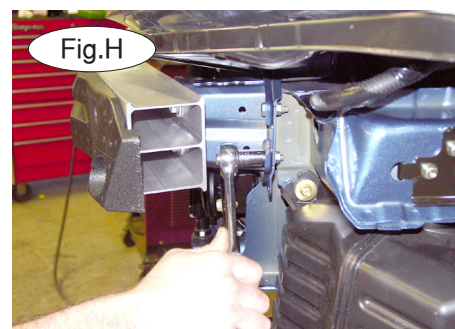
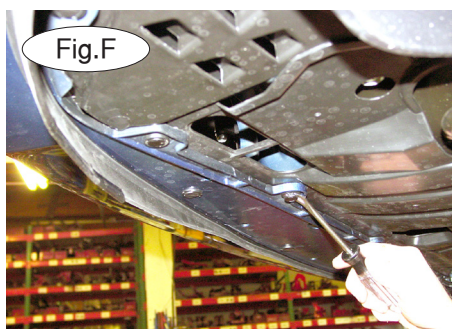
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1. **Important:** please use all supplied bolts and parts and read all instructions carefully before beginning this installation. The majority of questions you may have can be answered within the text, and proper installation will ensure safe and secure travel. Now, begin the installation. Start by removing four plastic fasteners attaching the radiator cover to the core support (Fig.C). Then remove the radiator cover.

2. Remove one 5mm (head) Allen bolts attaching the fascia to the core support (Fig. D). Repeat for the other side.
3. On both sides, remove one Phillips (head) screw attaching the corner of the fascia to the fender (Fig.E).

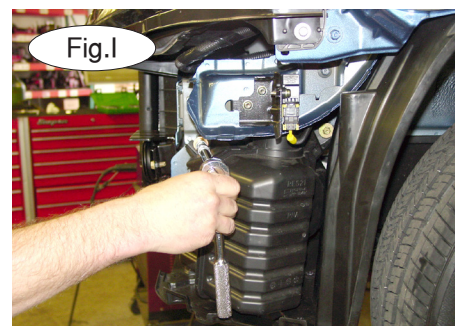


4. Next, on the underside of the fascia, remove eight plastic fasteners attaching the splash shield to the fascia (Fig.F). *Note:* remove only the row of fasteners closest to the rear of the car. Now, for both sides, remove three plastic fasteners attaching the fender liner to the fascia.

5. To remove the fascia pull out and forward on both corners (Fig.G).

6. On both sides, remove three 12mm (head) bolts attaching the bumper core mounts to the end of the frame rails (Fig.H). Then remove the bumper core and the bumper core mounts. The bumper core and bumper core mounts will not be reassembled. *Note:* the main receiver brace will replace the bumper core; however, retain the bumper core and attachment hardware so that it can be replaced if the bracket is ever removed.

7. Remove two 10mm (head) bolts to remove the air box (Fig.I)





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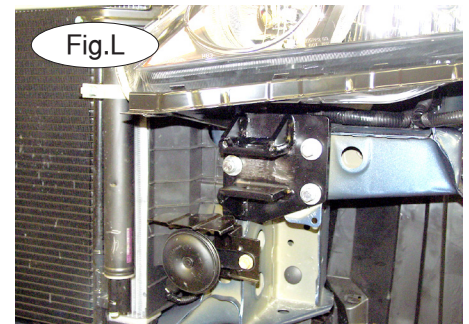
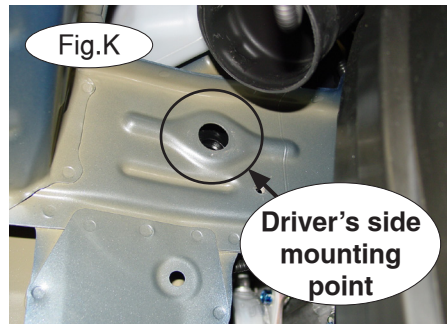
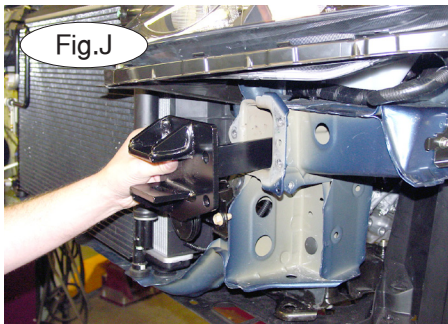
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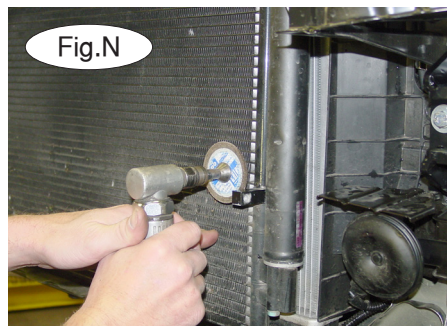
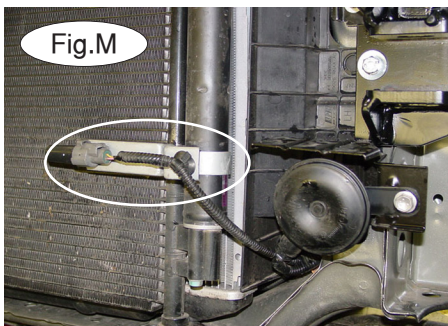
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8. Starting with the passenger's side, insert the upper brace into the frame rail (Fig.J). Using the ½" x 1½" bolt, lock washer and plate washer, bolt the upper brace into place through the existing hole located towards the rear of the frame rail (Fig.K). Repeat for the other side. *Note:* the driver's side upper brace bolts through the outside of the frame rail (Fig.K); the passenger's side upper brace bolts through the inside of the frame rail through the engine compartment.

9. Using the three 8mm x .125 x 30mm bolts, fender washers and lock washers, bolt one of the upper braces to the end of the frame rail (Fig.L) Repeat for the other side.

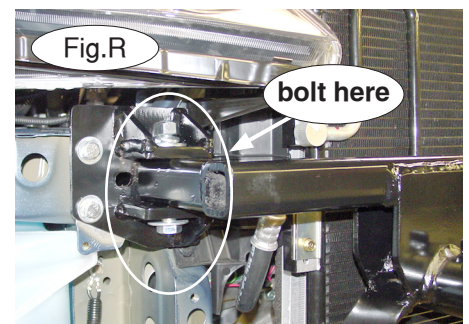
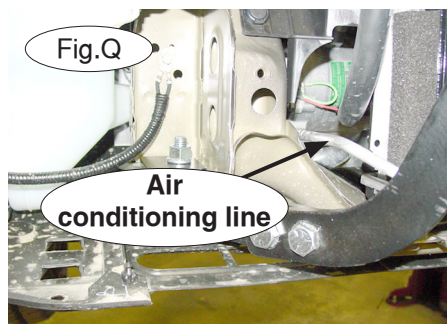
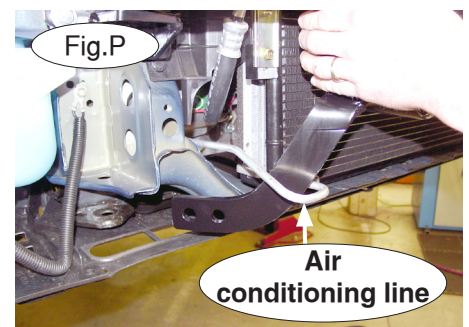


10. Starting with the 8mm bolts on the front, tighten the upper braces to the torque specifications listed at the end of these instructions.

11. If your vehicle is equipped with a ambient temperature sensor, remove the 10mm (head) bolt to remove the bracket (Fig.M). Now, remove the mounting post by cutting it off (Fig.N)

12. Now, position the main receiver brace to attach to the upper braces (Fig.O). Note: the lower passenger's side support inserts between the air-conditioning line (Fig.P) and the two door models lower passenger's side support is positioned on the outside of the air conditioning line (Fig.Q).

13. On both sides, bolt the main receiver brace to the upper braces using the supplied ½" x 3½" bolts, four flat washers (two per side), lock washers and nuts (Fig.R).





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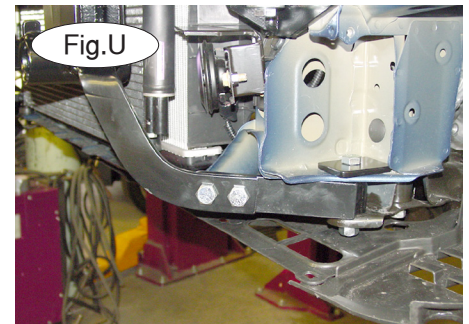
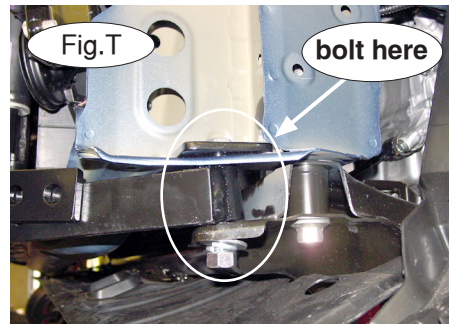
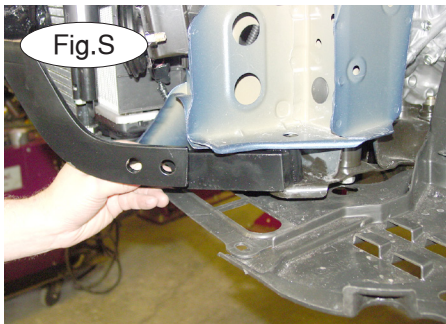
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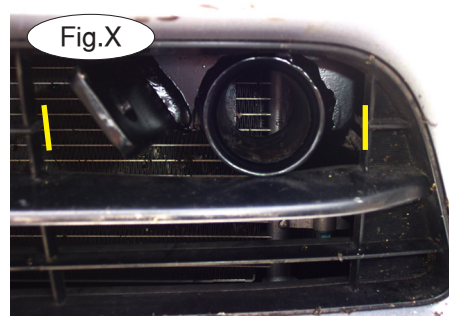
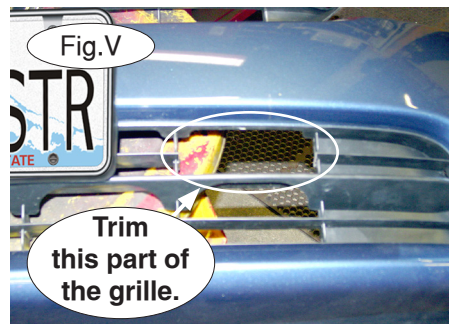


14. Next, insert one of the lower braces between the bottom of the core support and the sub frame (Fig.S). Bolt into place using the supplied 3/16" x 2" x 2 1/2" backing plate (with a 9/16" hole), 1/2" x 3" bolt, flat washer, lock washer and nut (Fig.T). Repeat for the other side.

15. Bolt one of the lower braces to the lower support arm on the main brace using two 1/2" x 1 1/2" bolts, lock washers and nuts (Fig.U). Repeat for the other side.

16. Torque all remaining bolts to the torque specifications listed at the end of these instructions.

17. **For 2006 to 2008 sedan models:** use Figure V as a reference for trimming. *Note:* refer to Figure W for correct trimming on the two door model.



18. **For 2009 sedan models:** use the yellow lines in Figure X as a reference for trimming.

19. Reassemble the air box, fascia and the radiator cover reversing steps 1 through 7

20. 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.Y). Attach the ends of the safety cables to the tow vehicle's safety cables and tow bar.

21. Install the tow bar to the mounting brackets 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
5/16-18	5	13 ft./lb.
3/8-16	5	23 ft./lb.
7/16-14	5	37 ft./lb.
1/2-13	5	57 ft./lb.
5/8-11	5	112 ft./lb.

METRIC BOLTS

Thread Size	Grade	Torque
6mm-1.0	8.8	6 ft./lb.
8mm-1.0	8.8	18 ft./lb.
8mm-1.25	8.8	16 ft./lb.
10mm-1.25	8.8	36 ft./lb.
10mm-1.5	8.8	31 ft./lb.

METRIC BOLTS

Thread Size	Grade	Torque
12mm-1.25	8.8	64 ft./lb.
12mm-1.5	8.8	60 ft./lb.
12mm-1.75	8.8	55 ft./lb.
14mm-2.0	8.8	88 ft./lb.