

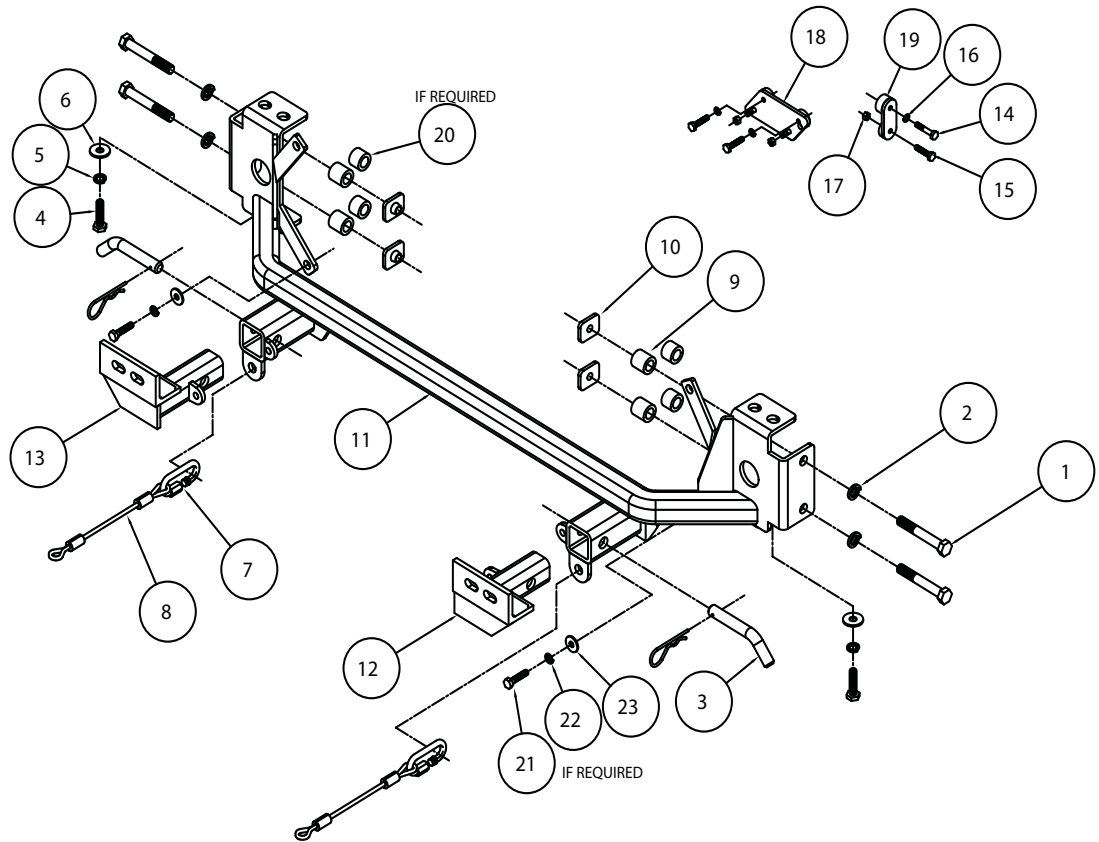


BASEPLATE KIT INSTALLATION INSTRUCTIONS

KIT# 4408-5

06/03/14
KS

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ITEM	QTY	NAME	MATERIAL
1	4	1/2" x 2 1/2" BOLT	350099-00
2	4	1/2" LOCK WASHER	350309-00
3	2	5/8" DRAW PIN W/ CLIP	357035-00
4	2	10MM x 1.5 x 40MM BOLT	356103-00
5	2	10MM LOCK WASHER	355715-00
6	2	3/8" FLAT WASHER	350304-00
7	2	QUICK LINK	200008-00
8	2	8" SAFETY CABLE	650646-08
9	4	PIPE SPACER 1" O.D. x 0.188 WALL x 1"	A-000028
10	4	3/16" x 1 1/4" x 1 1/2" THREADED BACKING PLATE	A-003075
11	1	MAIN RECEIVER WELDMENT	C-001510
12	1	DRIVER SIDE ARM WELDMENT	C-001508
13	1	PASSENGER SIDE ARM WELDMENT	C-001509
14	1	6MM x 1.0 x 35MM BOLT	355896-00
15	3	6MM x 1.0 x 25MM BOLT	355894-00
16	3	6MM LOCK WASHER	355761-00
17	3	6MM x 1.0 NYLON LOCK NUT	355760-00
18	1	ACC FRONT BRACKET	C-002109
19	1	ACC SIDE BRACKET	C-002110
20	4	1" O.D. x 0.188 WALL TUBE x 3/4"	A-000112
21	2	8MM x 1.25 x 35mm BOLT	356002-00
22	2	8MM LOCK WASHER	355705-00
23	2	5/16" FLAT WASHER	350303-20



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This is one of our XL series brackets, which allows the visible front portion of the bracket to be easily removed from the front of the vehicle (Fig.A and Fig.B). The bracket kit consists of a main receiver brace, two removable front braces and a hardware pack. The main receiver brace mounts to the frame rail; the removable front braces install in 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 brackets **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 these instructions can result in property damage, personal injury or even death.

- **Installation of most mounting brackets 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.** Failure to do so could result in loss of the towed vehicle.
- **Use Loctite® Red** on all bolts used for mounting this bracket.
- **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 mounts and brackets for cracks or other signs of fatigue every 3,000 miles.** Failure to do so could result in loss of the towed vehicle.
- **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.
- **If running changes were made** by the vehicle manufacturer after this bracket 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 that the bracket is securely fastened to the vehicle and fitted with the correct hardware to account for these changes. Failure to securely fasten the bracket 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 bracket. **Do not install the bracket if any structural frame damage is found.** Failure to repair the damage could
- Roadmaster manufactures many styles of brackets. **If your bracket 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, resulting in non-warranty damage or personal injury.
- Some motorhome chassis have such a tight turning radius that you can damage your motorhome, towed vehicle, tow bar or bracket 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 bracket is designed for use with ROADMASTER tow bars and ROADMASTER adaptors only. **Using this bracket with other brands, without an approved ROADMASTER adaptor, may result in non-warranty damage or injury.**
- **Do not use this document for custom fabrication,** as it may not show all parts or structural components. Custom fabrication or an attempt to copy this bracket design could result in loss of the towed vehicle.
- Upon final installation, **the installer must inspect the bracket to ensure adequate clearance, particularly around hoses, air conditioner lines, radiators, etc.,** or non-warranty damage to the towed vehicle will result.
- **This bracket is only warranted for the original installation.** Installing a used bracket on another vehicle is not recommended and will void

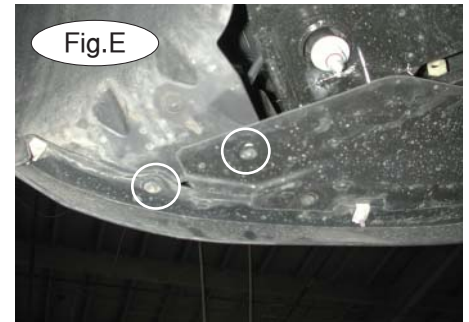
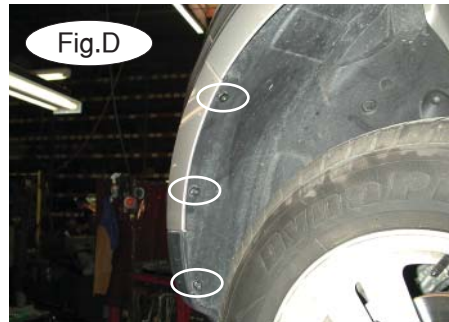


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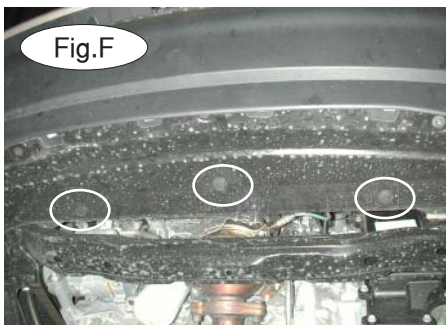
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1. **Important:** please use all supplied bolts and parts and read all instructions carefully before beginning this installation. The majority of questions you may have can be answered within the text, and proper installation will ensure safe and secure travel. Now, begin the installation by removing two 10mm bolts and four plastic fasteners attaching the top of the fascia to the core support (Fig.C). *Note:* due to manufacturing variances, there may be six plastic fasteners to remove.

2. Next, on each side, remove three 5.5mm (head) screws attaching the fender liner to the outer edge of the fascia (Fig.D).

3. On each side, remove two more 5.5mm (head) screws attaching the fender liner and center splash shield to the bottom of the fascia (Fig.E).



4. Remove three plastic fasteners attaching the center splash shield to the radiator support (Fig.F).

5. Pull back the fender liner and disconnect the fog lights, if the vehicle is so equipped.

6. Now, remove the fascia by pulling out and forward on both of the corners (Fig.G).

7. Support the radiator support (Fig.H). *Note:* you must support the radiator support before removing the bumper core. If you fail to do this, the upper half of the core support could be damaged.

8. Next, on each side, remove two 10mm (head) bolts attaching the bumper core to the core support (Fig.I).

9. On each side, remove three 13mm (head) bolts attaching the bumper core to the frame rails (Fig.J). Next, remove the bumper core.

Note: the bumper core will not be re-installed.

Note: retain the bumper core and attachment hardware so that it can be replaced if the bracket is ever removed.



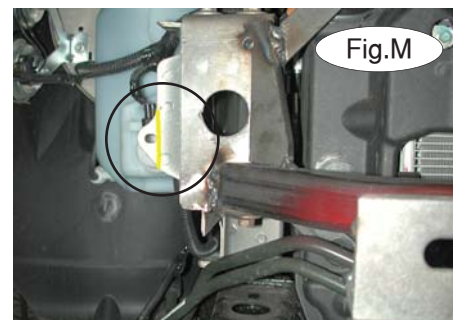
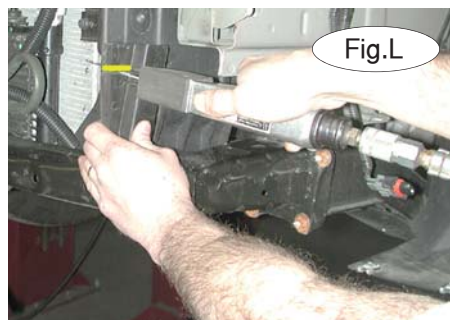
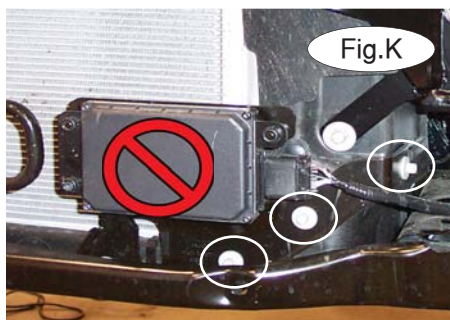


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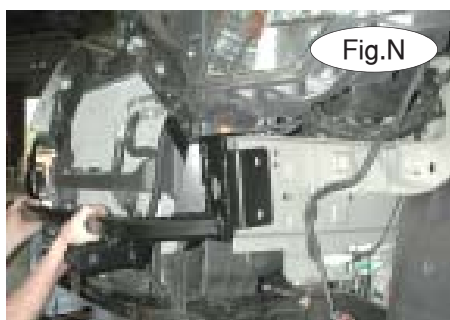


10. Remove three 8mm (head) bolts attaching the adaptive cruise control bracket and sensor to the radiator support (Fig.K) and let the unit hang down below the vehicle. *Note:* the bolts will not be replaced. Retain the bolts for replacement in case the bracket is ever removed. **Caution! Under no circumstances should you attempt to disconnect the ACC unit (indicated in red in Figure K). Doing so may cause cruise control malfunction and/or computer error codes that may require the dealership to repair or reset.**

11. Trim the small air deflectors on each side of the lower bumper core. Trim approximately 1" off from the top of each one (Fig.L). Use the yellow marker line in Figure K as a reference. Also, trim the flange on the passenger side using the yellow marker line as a reference (Fig.M).

12. Now, place the main receiver brace over the ends of the frame rails (Fig.N)

13. Bolt the main receiver brace into place using the bumper core mounting bolts you removed in step 9 (Fig.O). *Note:* use thread lock on the factory bolts prior to reinstalling them.



14. Next, reattach the core support to the main receiver brace using the 10mm (head) bolts you removed in step 8 on the upper holes only (Fig.P) and use the supplied 8mm x 1.25 x 35mm bolt, 8mm lock washer and 5/16 flat washer on the lower hole. *Note:* use thread lock on the factory bolts prior to reinstalling them. **Make certain that the power steering cooler lines are not contacting the main receiver brace.** If they are, bend them back (Fig.Q).



15. Tighten all main receiver bolts to the torque specifications listed at the end of these instructions.

16. Using the main receiver brace as a template, enlarge both of the existing holes in the side of the frame rail to 1/2" (Fig.R). Repeat for the other side.

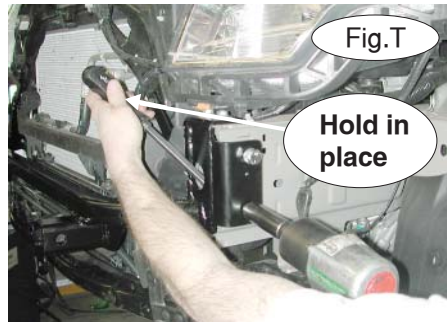
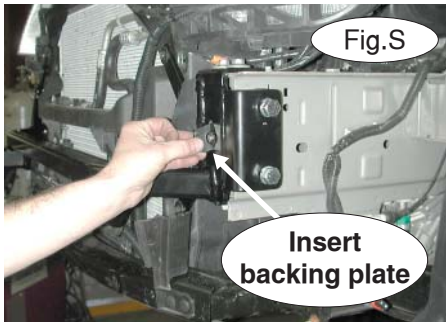


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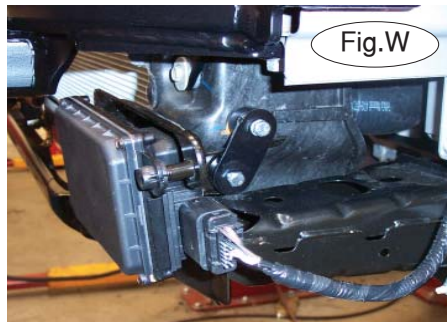
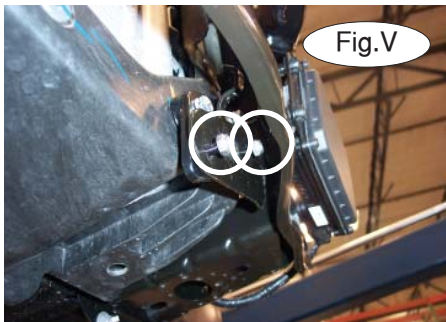
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17. On each side, place the two 1" x 1" pipe spacers between the main receiver brace and the side of the frame rail. Make sure to align them with the existing holes in the main receiver brace and the frame rail. Bolt into place using two 2½" bolts and lock washers; finish by placing two 1¼" x 1¾" backing plates inside the frame through the round opening and onto the bolts (Fig.S). *Note:* you may need to hold the backing plates in place when tightening the bolts in the side of the frame rail (Fig.T). *Note:* due to frame variances, the space between the outside point and the frame may vary from side to side. If this is the case, use the provided ¾" spacers.

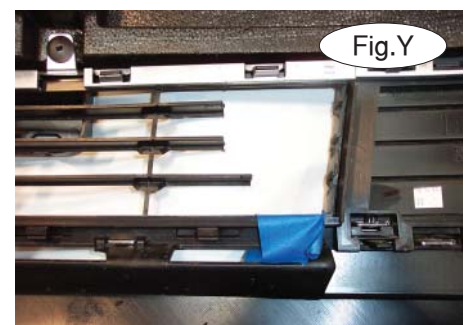
18. Using the larger of the two supplied adaptor brackets, place two 6mm lock washers over two 6mm x 1.0 x 25mm bolts, and bolt the adaptor into the existing holes in the radiator support (Fig.U).



19. Place the adaptive cruise control bracket and sensor over the existing 6mm studs in the adaptor bracket you installed in the previous step. Finish with two 6mm nylock nuts (Fig.V). **Caution! Make certain that the ACC unit is oriented exactly as it was prior to removing the bracket in step 10.**

20. Place one of the supplied 6mm lock washers over a 6mm x 1.0 x 35 mm bolt, and bolt through the larger of the two spacers on the supplied secondary adaptor and into the existing upper side mount for the adaptive cruise control.

21. Now, using one of the supplied 6mm x 2.0 x 25mm bolts, bolt through the secondary adaptor and into the existing lower side mount (Fig.W). Finish with a 6mm nylock nut. Tighten all adaptive cruise control mounting bolts to the bolt torque requirements found at the end of these instructions.



22. To allow clearance for the radius of the cross bar and the main receiver brace, the fascia will need to be trimmed. Refer to Figures X and Y for trimming.



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- 23. Now, reinstall the fascia reversing steps 1 through 6.
- 24. Fit the removable front braces into the front receiver brace, and secure them in place with the supplied 5/8" draw pins and spring pins.
- 25. Attach the 8" safety cables with the cable connectors (Q-Links) to the receiver braces and attach the ends of the safety cables to the tow vehicle's safety cables and tow bar.
- 26. 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.