

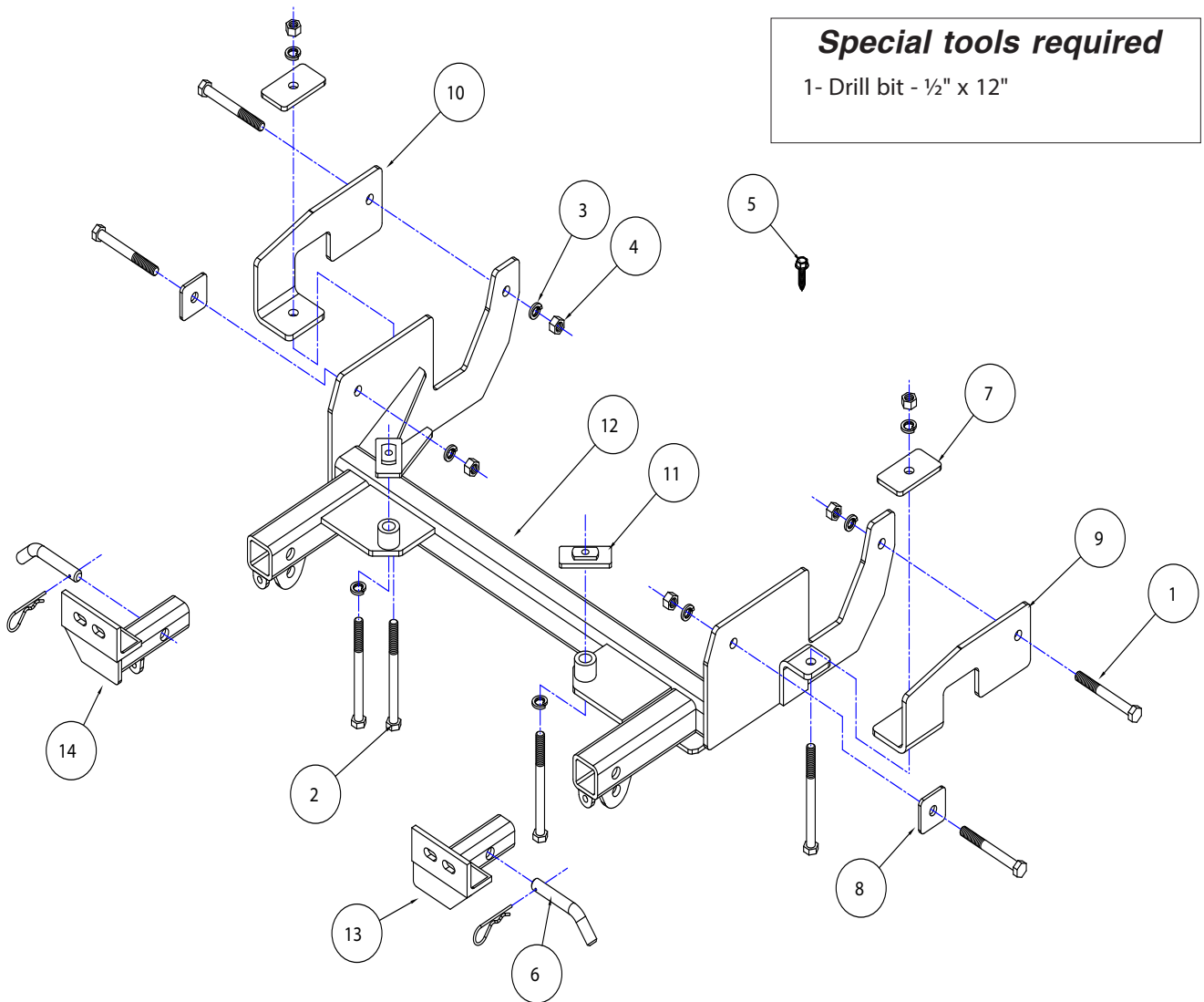


BASEPLATE KIT INSTALLATION INSTRUCTIONS

KIT# 279-1

08/28/17
KS

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Special tools required
1- Drill bit - 1/2" x 12"

ITEM	QTY	NAME	PART #
1.....	4.....	1/2" x 4 1/2" BOLT	350106-00
2.....	4.....	1/2" x 6" BOLT	350109-00
3.....	8.....	1/2" LOCK WASHER.....	350309-00
4.....	6.....	1/2" NUT	350258-00
5.....	1.....	3/8" x 1 1/2" SELF TAPPING SCREW	350007-37
6.....	2.....	DRAW PIN, SPRING PIN.....	357035-00
7.....	2.....	1/4" x 2" x 3 1/2" BACKING PLATE	A-000165
8.....	2.....	3/16" x 2" x 2" BACKING PLATE	A-001066
9.....	2.....	DRIVER SIDE SIDE BRACE.....	B-000863
10.....	1.....	PASSENGER SIDE SIDE BRACE	B-000864
11.....	2.....	1 1/2" x 3" THREADED BACKING PLATE	C-000053
12.....	1.....	MAIN RECEIVER BRACE.....	C-001271
13.....	1.....	DRIVER SIDE ARM	C-001272
14.....	1.....	PASSENGER SIDE ARM.....	C-001273



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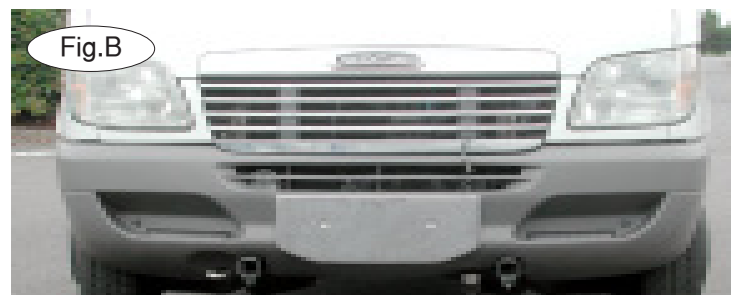
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This is one of our crossbar-style brackets, which allows the visible front portion of the bracket to be easily removed from the front of the vehicle (Fig.A and Fig.B). The bracket consists of a main receiver brace, two removable front braces and a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

The main receiver brace mounts to the frame rails. 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 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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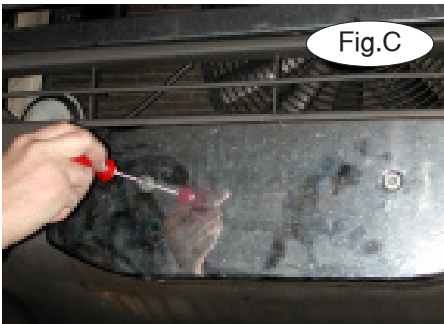


Fig.C

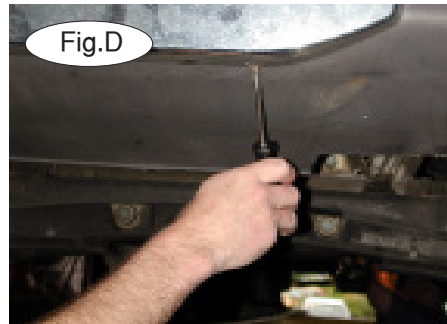


Fig.D



Fig.E



Fig.F



Fig.G



Fig.H

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 two T20 Torx screws from the license plate holder (Fig.C).

2. Then, remove two plastic fasteners from the bottom of the licence plate holder (Fig.D).

3. Remove the ambient air sensor (Fig.E) – by pulling forward on the center of the plastic clip, the sensor will release from the housing.

4. Remove two 13mm (head) bolts from the center of the fascia (Fig.F).

5. Remove two plastic fasteners on the fascia (one on each side, Fig.G).

6. Now, remove the fascia by pulling forward on each side (Fig.H).



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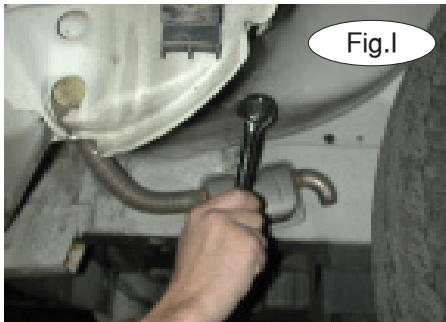


Fig.I

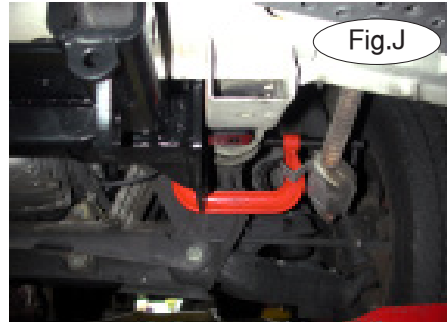


Fig.J



Fig.K

7. If the vehicle is equipped with an optional muffler for an auxiliary heating system on the driver's side, remove it by removing a 10mm nut (Fig.I).

8. Lift the main receiver brace into position between the frame rails. The main receiver brace must fit flush against the inside of the frame rails and the bumper core. Clamp the bracket in place on each side (Fig.J).

9. Using the pre-drilled hole at the front of the main receiver brace as a template, drill a 1/2" hole through both sides of the frame rail (Fig.K). *Note:* before drilling, check to make sure all hoses, fittings and other engine components are out of the way. Repeat for the other side.

10. Using the two holes you just drilled, attach the main receiver brace to the frame rails. Use a 1/2" x 4 1/2" bolt, a 1/4" x 2" x 2" backing plate (with a 9/16" hole), and a lock washer and nut at each end (Fig.L). Tighten the two bolts to the torque specifications at the bottom of these instructions.



Fig.L

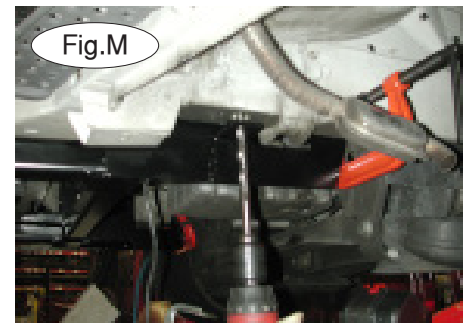


Fig.M

11. Using the pre-drilled hole at the bottom of the main receiver brace as a template, drill a 1/2" hole into the top of the frame rail (Fig.M). This hole will align with a pre-existing hole at the bottom of the frame rail. *Note:* before drilling, check to make sure all hoses, fittings and other engine components are out of the way. Repeat for the other side.

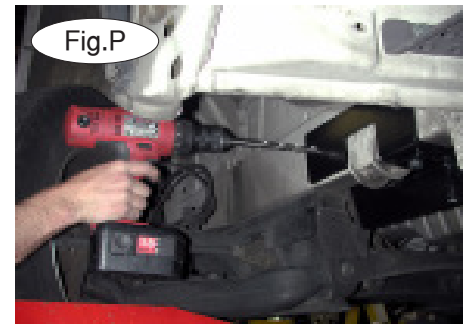
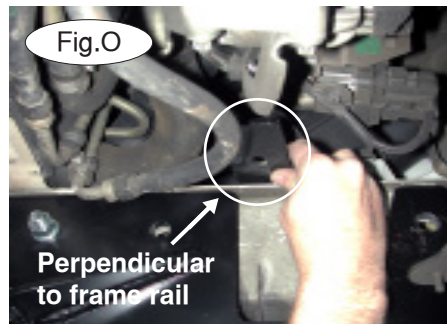


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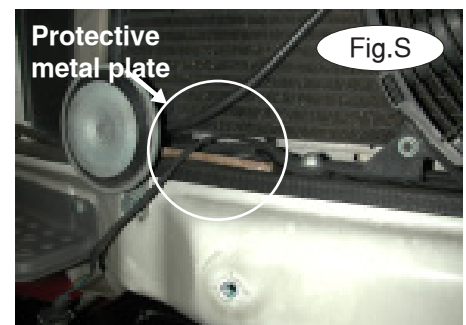
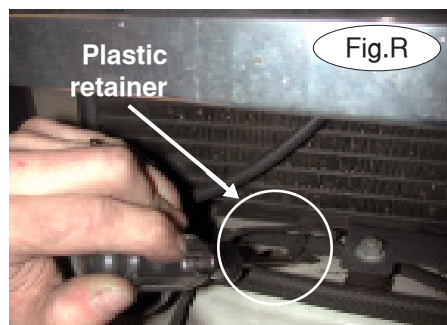
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12. Set one of the supplied side plates in place, with the lower flange between the main receiver brace and the frame rail (Fig.N). From the bottom, bolt through the main receiver brace, the side brace, and the top and bottom of the frame rail with a $\frac{1}{2}$ " x 6" bolt. Then, use a $1\frac{1}{4}$ " x 2" x $3\frac{1}{2}$ " backing plate and a lock washer and nut to secure the side plate. *Note:* position the backing plate across the top of the frame rail (perpendicular to the frame rail), so that the ends of the backing plate align to both sides of the frame rail (Fig.O). Repeat for the other side, then tighten both bolts to the torque specifications at the bottom of these instructions.

13. Remove the clamps used in step 8.

14. In order to drill the next two attachment points, turn the front wheels completely to one side, and then to the other. Using the pre-drilled hole at the rear of one of the side plates as a template, drill through both sides of the frame rail (Fig.P). Then, slide a $\frac{1}{2}$ " x $4\frac{1}{2}$ " bolt through the hole you just drilled, and secure it in place with a lock washer and nut (Fig.Q). Repeat for the other side.



15. Before drilling the two center attachment points in the core support, remove the two plastic retainer clips holding the wiring harness. The clips are located on both the passenger and driver side, on top of the core support and below the radiator (Fig.R).

16. Before drilling the two center attachment points, place a metal plate between the core support and the radiator (Fig.S), in order to protect the radiator from possible damage.



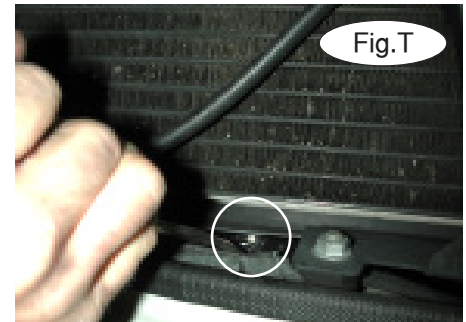
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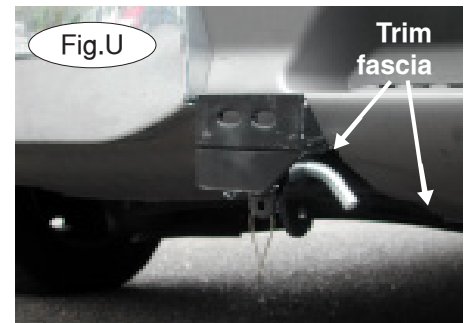
17. Using the pre-drilled hole in the main receiver brace as a template, drill a 1/2" hole from the bottom of the main receiver brace through both the bottom and top of the core support. Bolt through the main receiver brace and the core support with a 1/2" x 6" bolt. Attach a lock washer to the bolt, and then secure the bolt in place with a 1/4" x 1 1/2" x 3" nutted backing plate. The nutted backing plate will rest on top of the bumper core, below the radiator (Fig.T).



18. Ensure that all bolts are tightened to the torque specifications at the bottom of these instructions.

19. In order to accommodate the two removable front braces, an area at the bottom of the fascia, on both sides, will need to be trimmed. Before reinstalling it, test-fit the fascia and mark the area to be trimmed. Trim a small section and test-fit the fascia, then repeat, if necessary, until you have trimmed enough.

20. Reinstall the fascia and the optional auxiliary heating system muffler (if the vehicle is so equipped), reversing steps 1 through 6. *Note:* reattach the auxiliary heating system muffler at a slightly higher location. Use a 3/8" x 1 1/2" self-tapping screw.



21. Fit the front bracket arms into the front receiver braces, and secure them in place with the supplied 5/8" draw pins and spring pins (Fig.U).

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

Note: This bracket requires 10,000-pound rated safety cables to be attached to the main brace of the towing vehicle.

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.