

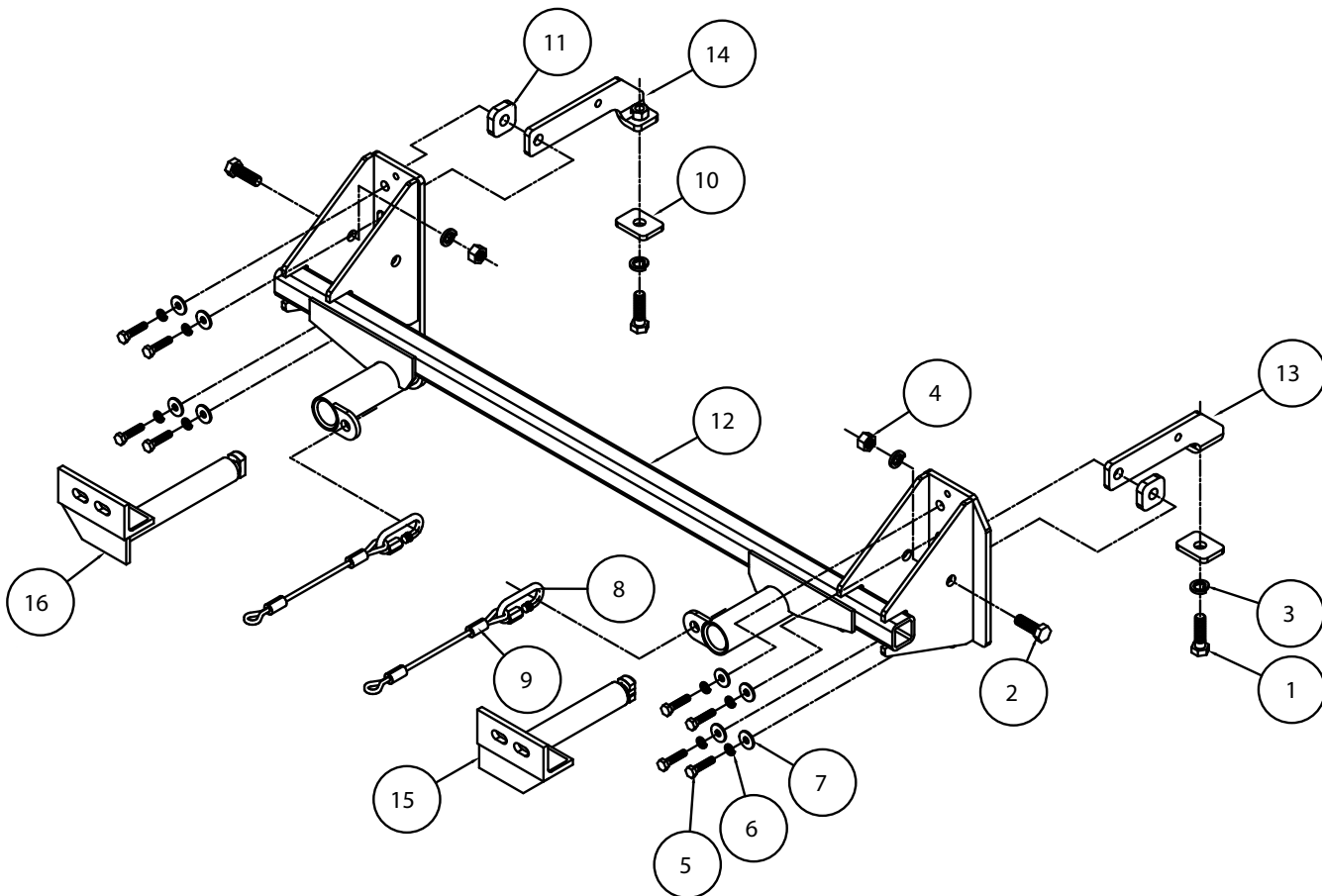


# BASEPLATE KIT INSTALLATION INSTRUCTIONS

**KIT# 522111-1**

11/05/12  
KS

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



ITEM	QTY	NAME	MATERIAL
1.....	2.....	1/2" x 1 3/4" BOLT .....	350096-00
2.....	2.....	1/2" x 1 1/2" BOLT .....	350095-00
3.....	4.....	1/2" LOCK WASHER.....	350309-00
4.....	2.....	1/2" HEX NUT.....	350258-00
5.....	8.....	8mm x 1.25 x 35mm BOLT.....	356002-00
6.....	8.....	8mm LOCK WASHER.....	355705-00
7.....	8.....	5/16" FLAT WASHER.....	350303-20
8.....	2.....	QUICK LINK.....	200008-00
9.....	2.....	8" SAFETY CABLES.....	650646-8
10.....	2.....	1/4" x 1 1/2" x 2" ROUND HOLE BACKING PLATE.....	A-00122
11.....	2.....	3/8" x 1 1/2" x 1 1/2" ROUND HOLE SPACER PLATE .....	A-001645
12.....	1.....	MAIN RECEIVER.....	C-001866
13.....	1.....	DRIVER SIDE BRACE.....	C-001867
14.....	1.....	PASSENGER SIDE BRACE.....	C-001868
15.....	1.....	DRIVER SIDE ARM.....	C-001869
16.....	1.....	PASSENGER SIDE ARM.....	C-001870
17.....	2.....	ZIP TIE .....	300140-8



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This is one of our EZ2 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 consists of a main receiver brace, two removable front braces, two center braces and a hardware pack.

The main receiver brace mounts to the frame rails and core support. 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 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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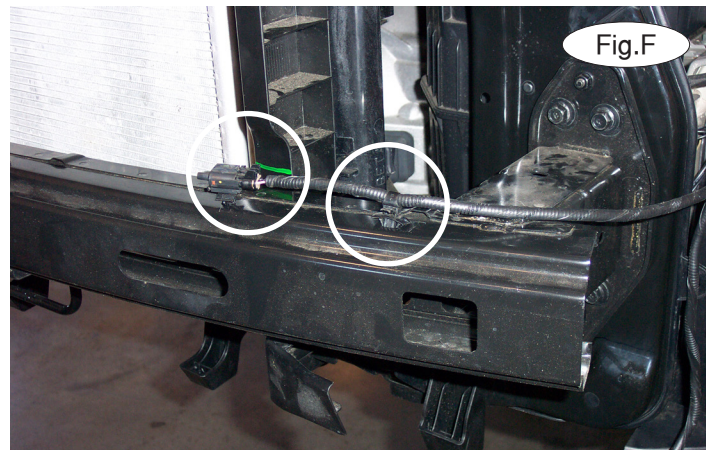
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1. **Important:** please use all supplied bolts and parts and read all instructions carefully before beginning this installation. The majority of questions you may have can be answered within the text, and proper installation will ensure safe and secure travel. Now, begin the installation by removing five plastic fasteners and two 10mm (head) bolts attaching the top of the fascia to the core support (Fig.C).

2. On each side, remove one Phillips screw attaching the fender liner to the fascia (Fig.D – driver's side).

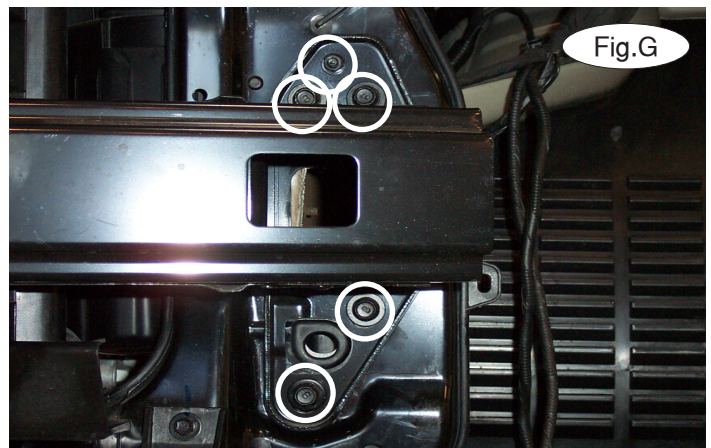


3. Remove eight plastic fasteners attaching the bottom of the fascia and fender liners to the bottom of the core support. *Note:* the fasteners are located toward the inside edge of the fascia.

4. Pull out on the corners of the fascia to remove it (Fig.E).

5. Remove two clips attaching the ambient temperature sensor to the bumper core (Fig.F).

6. On each side, remove four 12mm (head) bolts and a 10mm nut attaching the bumper core to the frame rails and remove it (Fig. G – driver's side). It will not be replaced. *Note:* retain the bumper core and attachment hardware so that it can be replaced if the bracket is ever removed.





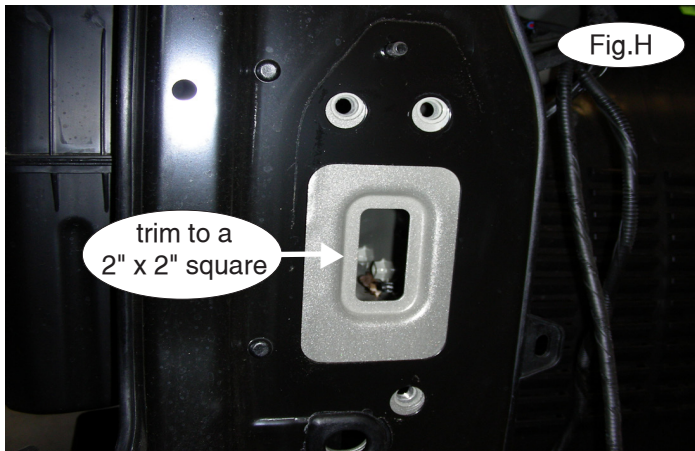


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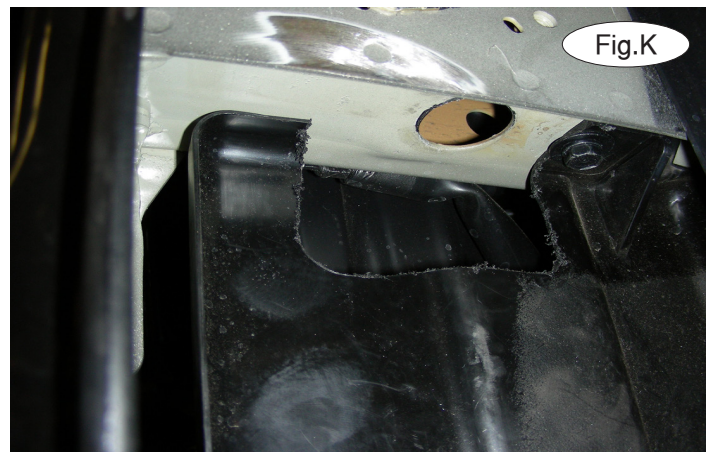
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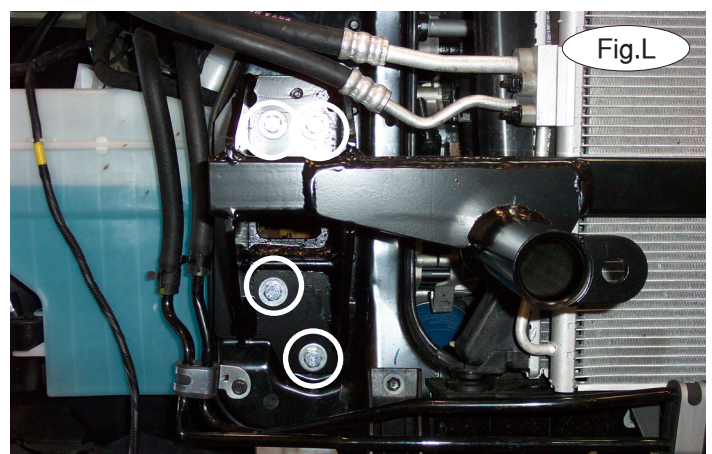


7. On each side, locate the opening in the end of the frame rail (Fig.H) and enlarge it to a 2" x 2" square (Fig.I).
8. Remove the air deflectors. They will not be replaced. *Note:* retain the air deflectors so that they can be replaced if the bracket is ever removed.



9. On each side, remove five 10mm head bolts attaching the lower splash shield to the frame rail and core support (Fig.J – driver's side). Trim the lower splash shield on both sides as shown in (Figure K – passenger side) and replace it.

10. Place the main receiver brace over the ends of the frame rails and on each side, bolt it into place using the four supplied 8mm x 1.25 x 35mm bolts, lock washers and 5/16" fender washers (Fig.L).





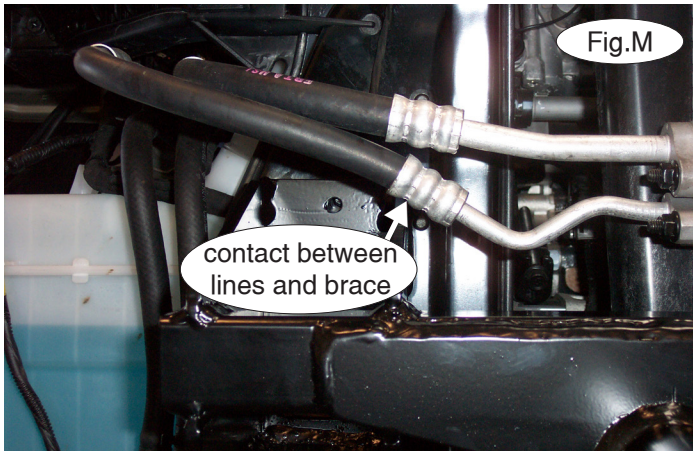


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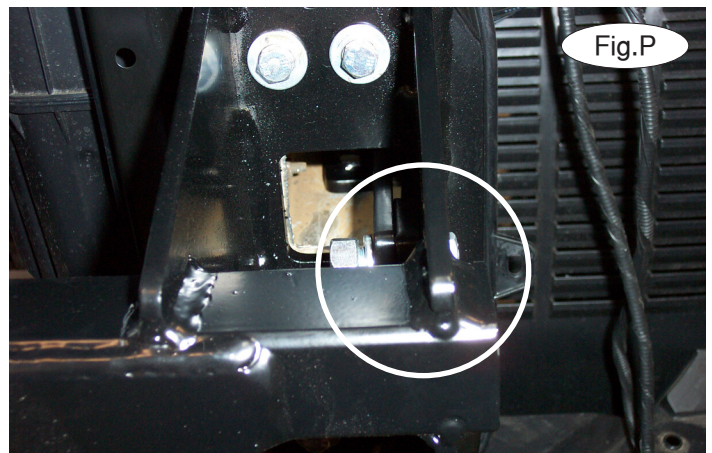
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11. Torque the bolts to 19 ft./lbs. or 228 in./lbs. *Note:* if the air conditioner line contacts the main receiver brace, bend it slightly out of the way (Fig.M).

12. Starting with the driver's side, place the rear brace in the opening of the frame rail (Fig.N).

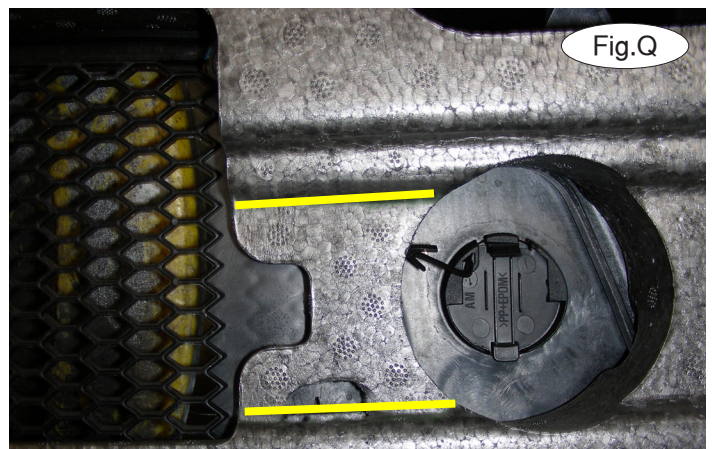


13. Place one of the  $\frac{1}{4}$ " x  $1\frac{1}{2}$ " x 2" backing plates over a  $\frac{1}{2}$ " x  $1\frac{3}{4}$ " bolt and lock washer, and bolt through the pre-existing hole in the bottom of the frame rail and into the rear brace (Fig.O).

14. Place one of the supplied  $\frac{3}{8}$ " x  $1\frac{1}{2}$ " x  $1\frac{1}{2}$ " spacers between the inside of the side plate and the rear support brace, and bolt through the side plate, rear support brace and the spacer using a  $\frac{1}{2}$ " x  $1\frac{1}{2}$ " bolt (Fig.P).

15. Repeat steps 12 and 14 for the passenger side. Torque all bolts to the bolt torque requirements found at the end of these instructions.

16. Trim the foam shock absorption pad on the back of the fascia using the green lines shown in Figure Q as a reference.





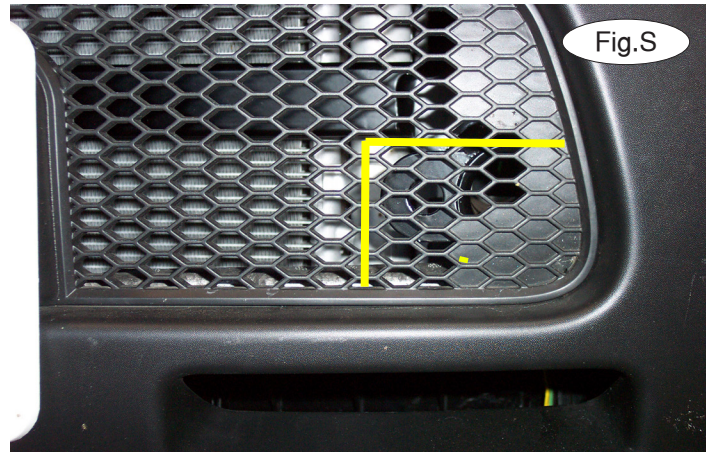
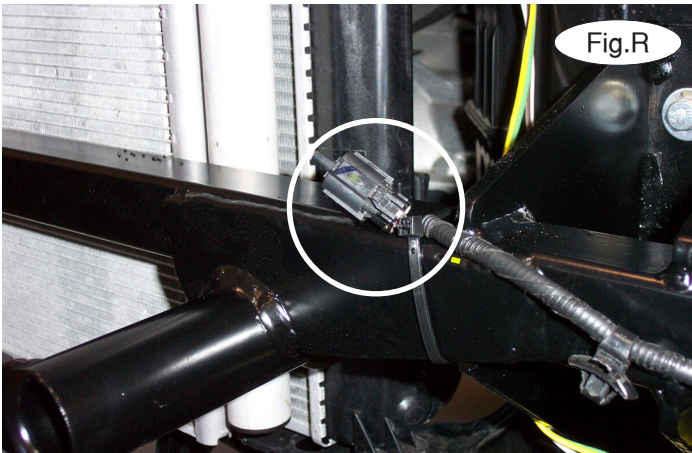


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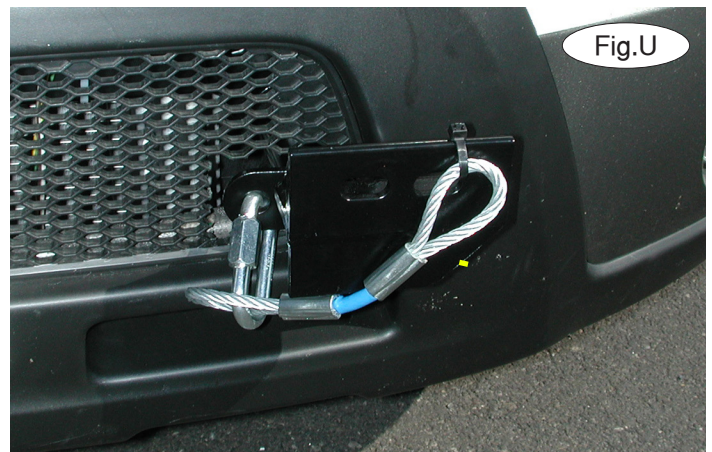
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17. Using the supplied zip ties, secure the ambient temperature sensor to the main receiver brace (Fig.R).
18. Hold the fascia over the main receiver brace and mark it for trimming (Fig.S). Figure T shows the completed trimming.



19. Reassemble the fascia, reversing steps 1 through 4.
20. Insert the removable front bracket arms into the front receiver braces, and twist each one 90 degrees to lock.
21. Attach the 8" safety cables with the cable connectors (Q-Links) to the front of the receiver braces (Fig.U).
22. Attach the ends of the safety cables to the tow vehicle's safety cables.
23. 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.