

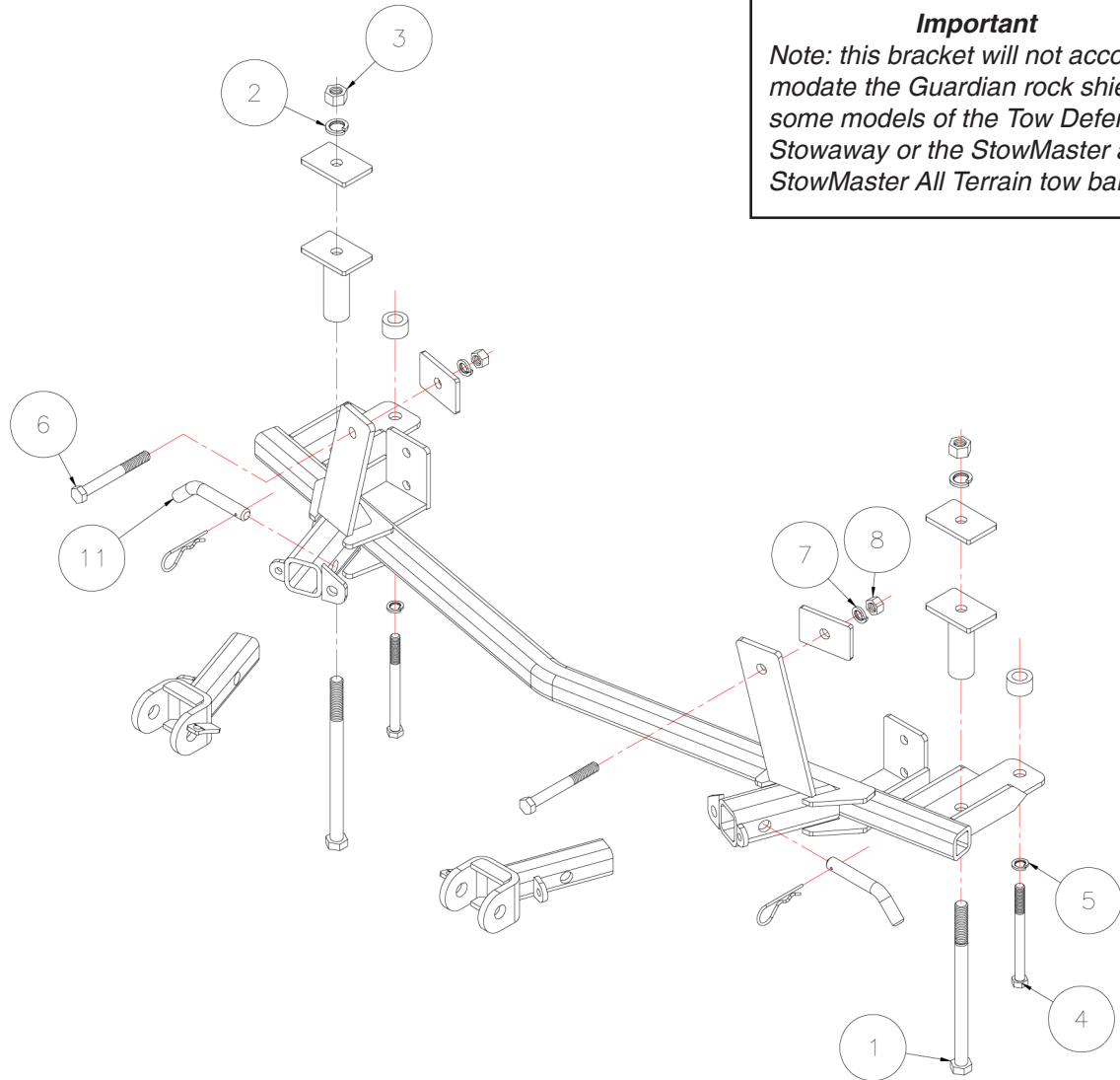


# BASEPLATE KIT INSTALLATION INSTRUCTIONS

**KIT# 3124-3**

1/07/08  
KS

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



**Important**  
Note: this bracket will not accommodate the Guardian rock shield, some models of the Tow Defender, Stowaway or the StowMaster and StowMaster All Terrain tow bars.

ITEM	QTY	Length	Width	HARDWARE	PART NO.
1	2	10"	5/8"	BOLT	350381-00
2	2		5/8"	LOCK WASHER	350313-00
3	2		5/8"	NUT	350262-00
4	2	160MM	14MM	14MM x 2.0MM x 160MM	355910-16
5	2		14MM	LOCK WASHER	355740-00
6	2	4 1/2"	1/2"	BOLT	350106-00
7	2		1/2"	LOCK WASHER	350309-00
8	2		1/2"	NUT	350266-00
11	2			DRAW PIN/SPRING PIN	357035-00

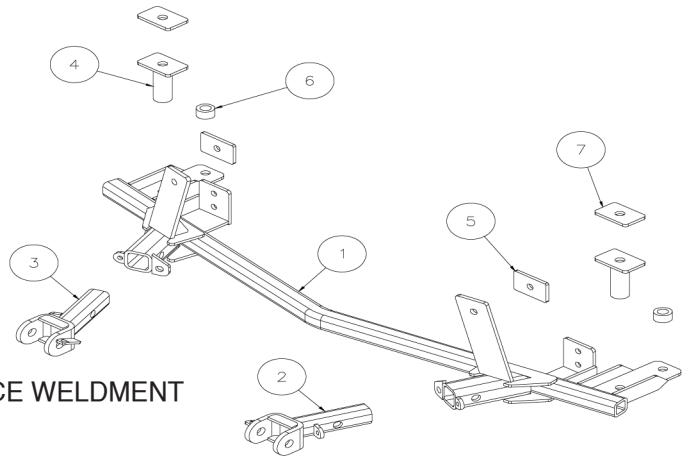


# BASEPLATE KIT INSTALLATION INSTRUCTIONS

**KIT# 3124-3**

1/07/08  
KS

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



ITEM	QTY	PART NO.	ASSEMBLY
1.....	1.....	C-000892.....	RECEIVER BRACE WELDMENT
2.....	1.....	C-000893.....	DRIVER SIDE ARM BRACE WELDMENT
3.....	1.....	C-000894.....	PASSENGER SIDE ARM BRACE WELDMENT
4.....	2.....	C-000903.....	BACKING PLATE WELDMENT
5.....	2.....	A-000147.....	1/4" x 2" x 3" BACKING PLATE
6.....	2.....	A-000559.....	1 1/4" O.D. x 3/4" x .250 WALL TUBE
7.....	2.....	A-000164.....	1/4" x 2" x 3" BACKING PLATE 5/8" HOLE

**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.



# BASEPLATE KIT INSTALLATION INSTRUCTIONS

**KIT# 3124-3**

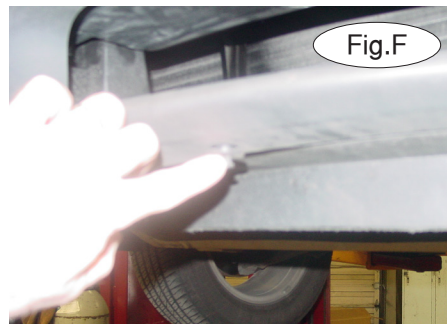
1/07/08  
KS

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

This bracket kit is one of our MX series, which is hidden for the most part behind the front bumper fascia and grille (Fig.A). The kit consists of a main receiver brace, two front braces and a hardware kit. The front braces install in the receiver brace and are pinned in place with drift pins and spring clips. Start by laying the kit out and making sure all the components are present.



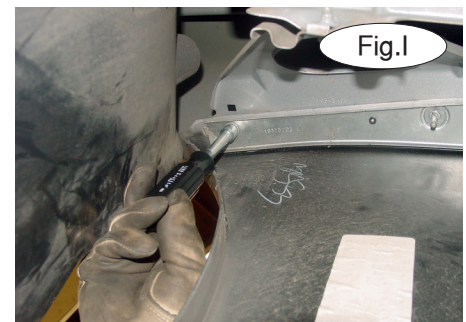
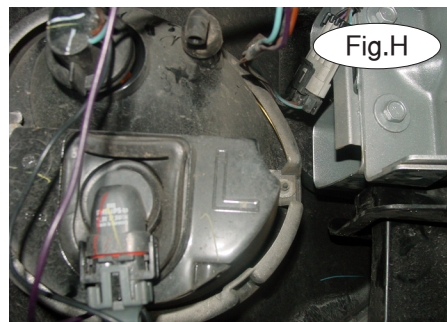
1. **Important:** please use all supplied bolts and parts and read all instructions carefully before beginning this installation. The majority of questions you may have can be answered within the text, and proper installation will ensure safe and secure travel. Now, begin the installation. The bumper fascia and lower splash panels will have to be removed to install the main brace. Start at the top of the fascia by removing five plastic fasteners from the top of the fascia (Fig.B), then move to the fender wells and remove five more (7mm head) fasteners from each fender well (Fig.C,D).



2. Move under the fascia and remove two fasteners (7mm head) under the fascia on each side (Fig.E) and six more plastic fasteners under the middle of the fascia (Fig.F).

3. Pull the splash panels away (Fig.G), then remove one 10mm head bolt and nut from each fascia fender junction (Fig.H).

4. Disconnect the driving lights on each side (Fig.I) then pull forward to remove and set aside the fascia.



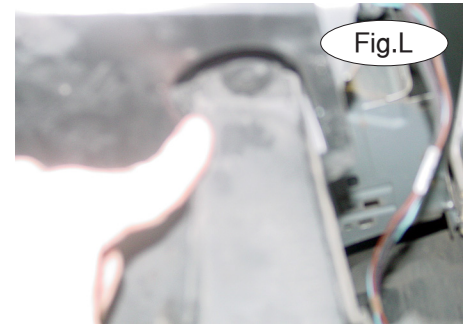
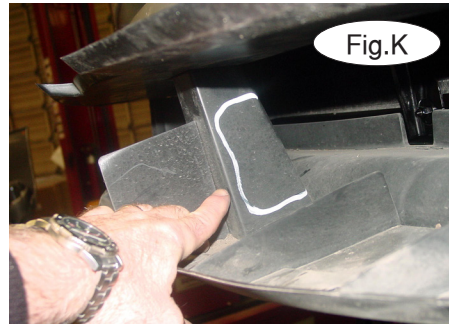
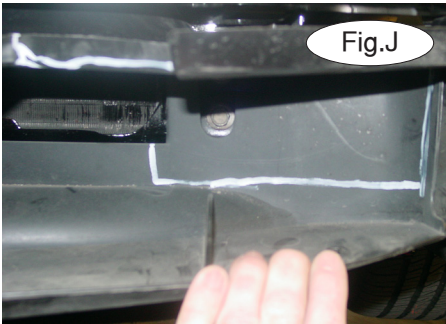


# BASEPLATE KIT INSTALLATION INSTRUCTIONS

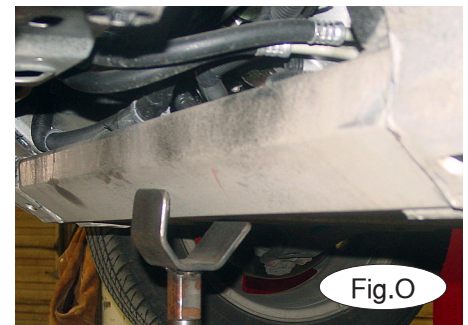
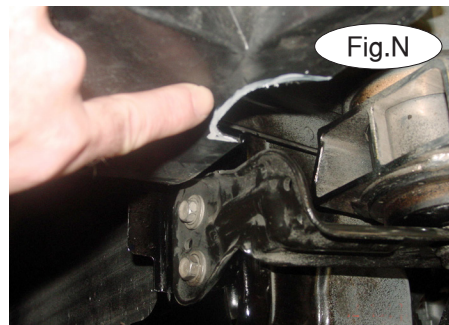
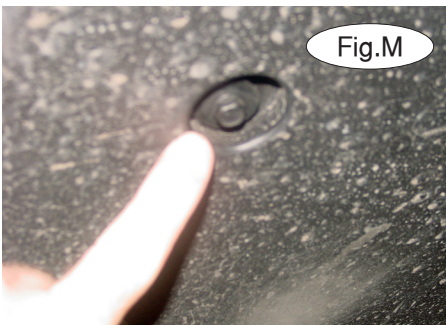
**KIT# 3124-3**

1/07/08  
KS

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

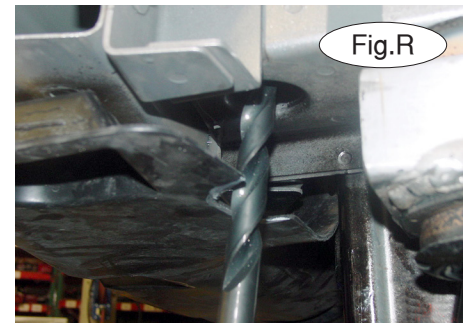
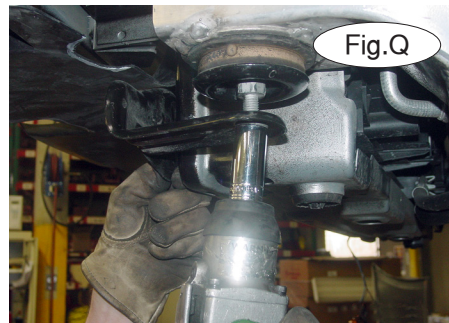
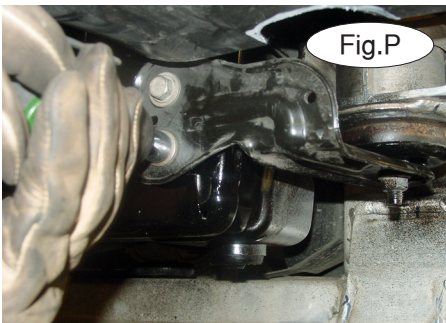


5. Before removing the large radiator air deflector that is mounted behind the fascia mark it as shown in (Fig.J and K). This will aid in trimming to fit around the receiver brace later. Move beneath and remove two plastic fasteners (Fig.L) and three bolts (10mm head) (Fig.M) from the bottom of the air deflector plastic then remove. Also, remove the energy absorption foam from the front of the bumper core at this time.



6. The top plastic deflector located near the isolation damper will have to be trimmed as shown for brace clearance on both sides (Fig.N).

7. Support or block the subframe (Fig.O).



8. Remove the small auxiliary brackets located on each side bolted to the frame and the isolation dampers (Fig.P,Q) (two 13mm head bolts and one 15mm nut). These braces will be replaced by the receiver brace.

9. Locate the large hole in the bottom of the frame on each side, center punch the top of the frame in the middle of the hole and drill a 17/64" hole through the top of the frame on each side (Fig.R).



# BASEPLATE KIT INSTALLATION INSTRUCTIONS

**KIT# 3124-3**

1/07/08  
KS

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

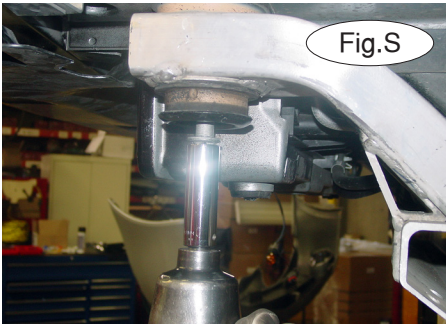


Fig.S



Fig.T

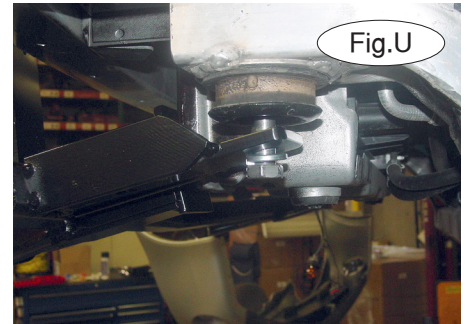


Fig.U

10. Remove the suspension support bolts on each side (18mm head) (Fig.S).

11. Hold the main receiver brace in position under the bumper core and over the isolation dampeners (Fig.T) then bolt through the brace into the subframe on each side with 14mm x 2.0 x 160 mm bolts (Fig.U). Be sure to use the  $\frac{3}{4}$ " spacers between the brace and the suspension damper on each side (Fig.V).



Fig.V

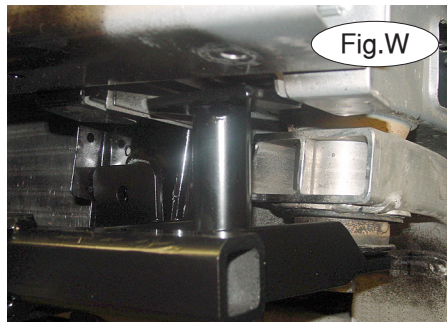


Fig.W

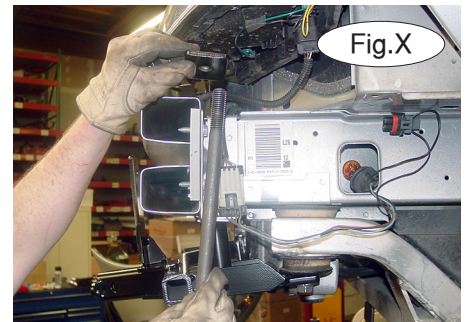


Fig.X

12. Now insert the upper spacer backing plate weldment between the brace and frame on each side and line up with the holes drilled in the frames in step 10 (Fig.W). Bolt through the main receiver brace, spacers, frame and top 2" x 3" backing plates with 5/8" x 10" bolts, lock washers and nuts (Fig.X,Y).

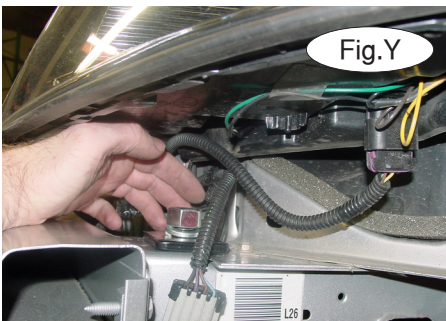


Fig.Y

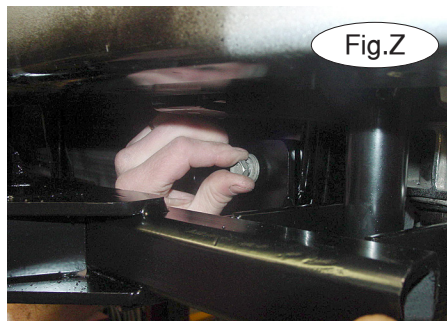


Fig.Z

13. Bolt through the front of the receiver brace on each side with the stock 13mm (head) bolts removed in step 9 (Fig.Z).

14. Tighten all the mounting bolts to the torque specifications on the last page.



# BASEPLATE KIT INSTALLATION INSTRUCTIONS

**KIT# 3124-3**

1/07/08  
KS

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

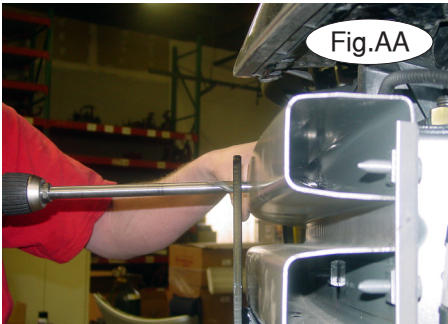


Fig. AA

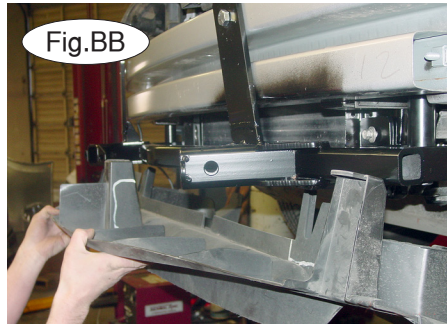


Fig. BB



Fig. CC

15. Using the two upper receiver mounts as a drill guide, drill through the bumper core using a plate behind the bumper core to protect the radiator. *Note:* be sure the wiring harness is also clear before drilling.

16. Bolt through the upper receiver mounts and the bumper core with 1/2" x 4 1/2" bolts, 2" x 3" backing plates, lock washers and nuts (Fig. AA).

17. Trim the lower air deflector plastic marked in step 6 to fit around the receiver brace then reinstall reversing step 5 (Fig. BB).

18. Trial fit the energy absorbing foam then trim to fit around the upper receiver brace mounts (Fig. CC).

19. Reinstall the bumper fascia reversing steps 1 through 4.

20. Install the front braces into the receivers (Fig. DD) and secure with 5/8" draw pins and 3/16" spring pins.

21. Attach the safety cables to the main receiver brace.

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



Fig. DD

## 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.