

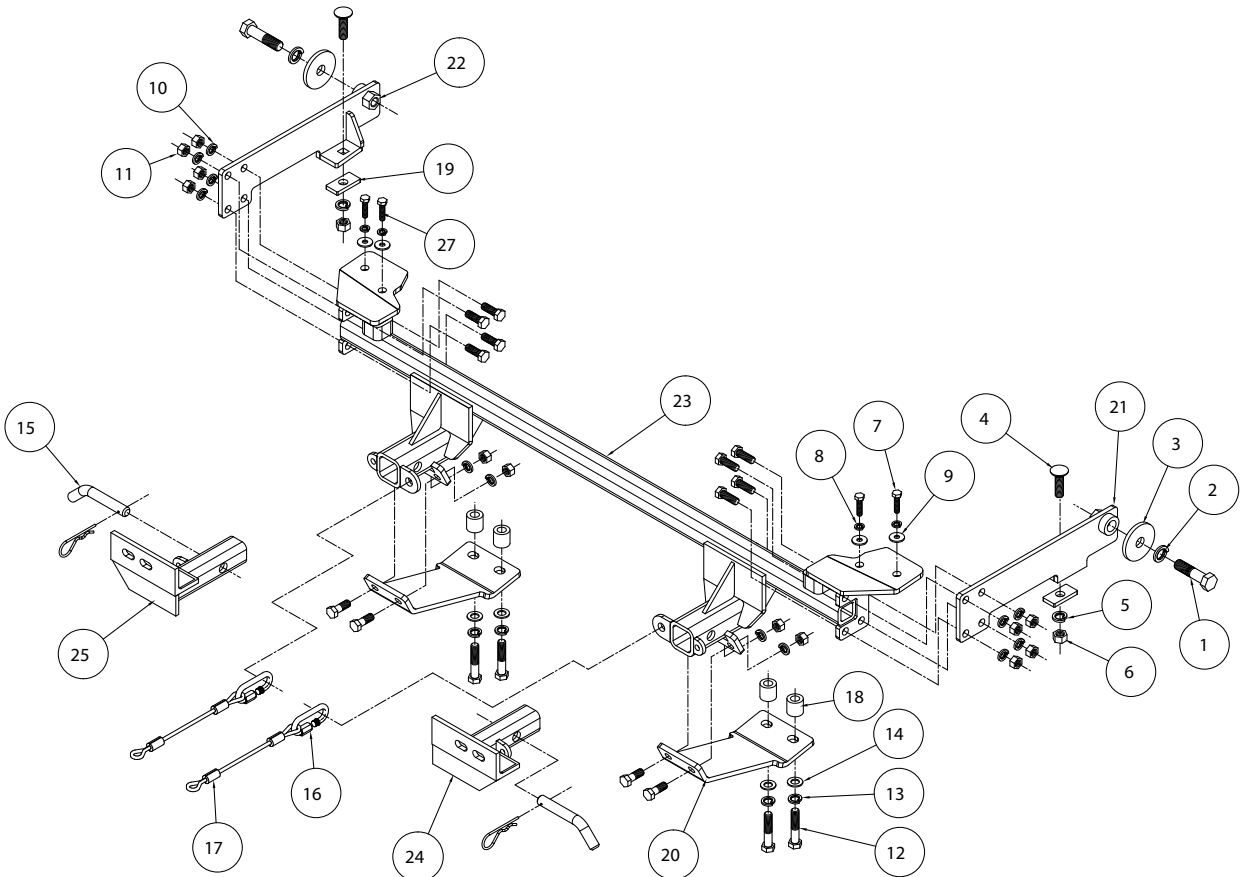


BASEPLATE KIT INSTALLATION INSTRUCTIONS

KIT# 1562-1

10/10/19
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	5/8" x 2 1/2" BOLTS	350150-20
2	2	5/8" LOCK WASHER	350313-00
3	2	5/8" PLATE WASHER	350352-00
4	2	1/2" x 1 3/4" CARRIAGE BOLT	350363-00
5	2	1/2" LOCK WASHER	350309-00
6	2	1/2" HEX NUT	350258-00
7	4	8mm x 1.25 x 30mm BOLT	356001-00
8	4	8mm LOCK WASHER	355705-00
9	4	8mm FENDER WASHER	355702-00
10	12	7/16" LOCK WASHER	350307-00
11	12	7/16" HEX NUT	350256-20
12	4	12mm x 1.25 x 60mm BOLT	357007-00
13	4	12mm LOCK WASHER	355725-00
14	4	12mm FLAT WASHER	355720-00
15	2	DRAW PIN W/ CLIP	357035-00
16	2	QUICK LINK	200008-00
17	2	SAFETY CABLE 8"	500646-08
18	4	1" O.D. x 1" PIPE SPACER	A-000028
19	2	1/4" x 1" x 2" RD. HOLE BACKING PLATE	A-000842
20	2	LOWER PLATE	B-001173
21	1	DRIVER SIDE BRACE	C-001133
22	1	PASSENGER SIDE BRACE	C-001132
23	1	MAIN RECEIVER	C-001704
24	1	DRIVER SIDE ARM	C-001705
25	1	PASSENGER SIDE ARM	C-001706
26	2	ZIP TIES	300140-8
27	12	7/16" x 1 1/4" BOLT	350073-00



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This bracket kit is one of our XL series, which allows the visible front portion of the brackets to be easily removed (Fig.A and Fig.B). The kit consists of the main receiver brace, removable front braces, rear braces, lower braces and a hardware pack.

The main receiver brace mounts to the front frame and bumper core on each side. The removable front braces insert into the receivers on each side and are secured with draw pins.

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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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 nine plastic fasteners attaching the radiator cover to the core support and fascia (Fig.C). Pull up and out to remove the radiator cover.

2. Remove two 10mm (head) bolts attaching the top of the fascia to the core support (Fig.D).



3. On each side, remove two Phillips screws attaching the fascia to the fender liner and the corner of the fascia to the fender (Fig.E).

4. Remove two 10mm (head) bolts and nine plastic fasteners attaching the bottom of the fascia to the radiator support (Fig. F – driver's side).

5. Pull out and forward on the corners of the fascia to remove it. Disconnect the fog lights and parking sensors, if the vehicle is so equipped (Fig.G).



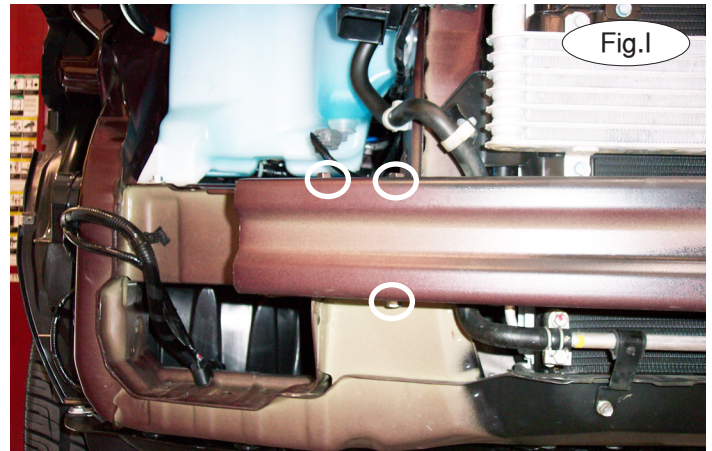


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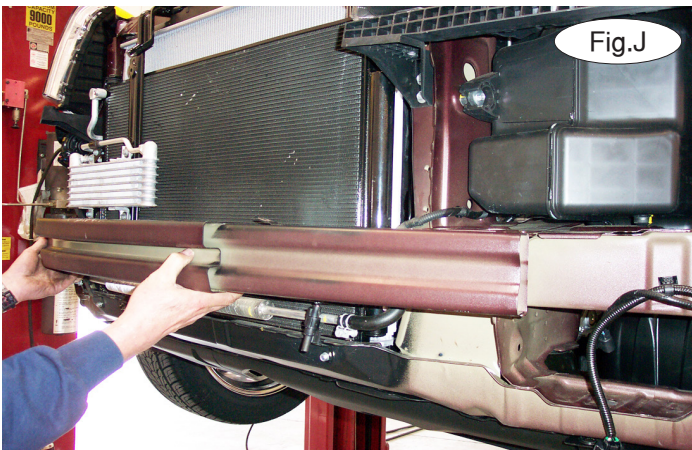
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6. Disconnect the ambient temperature sensor from the bumper core (Fig.H).

7. On each side, remove three 12mm (head) bolts attaching the bumper core to the ends of the frame rails (Fig.I). Pull out and forward to remove the bumper core (Fig.J). The bumper core will not be replaced. *Note:* retain the bumper core and attachment hardware so it can be replaced if the bracket is ever removed.



8. On each side, place a 1/2" x 1 3/4" carriage bolt in the rear brace and then place the rear brace in the end of the frame rail, letting the bolt drop through the pre-existing hole in the frame rail (Fig.K).

9. On each side, remove three plastic fasteners to remove the center splash shield (Fig.L – passenger side).



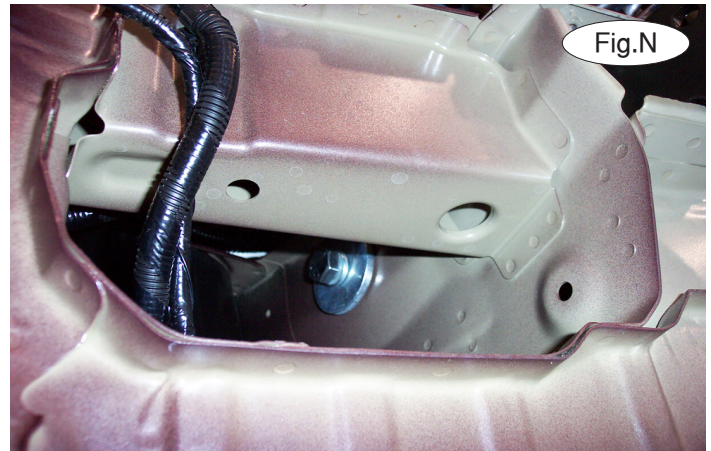
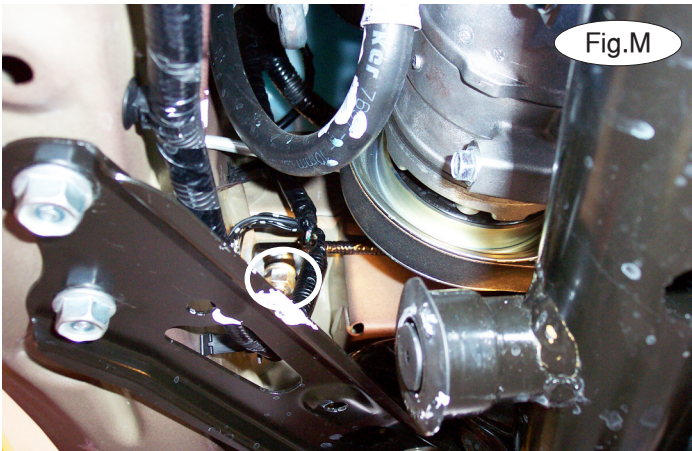


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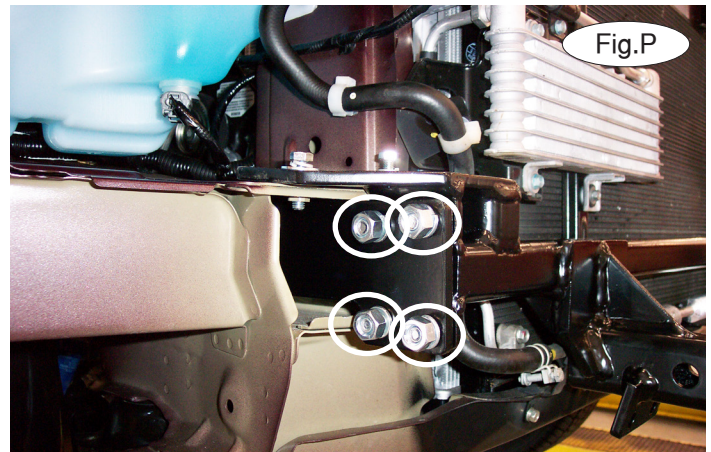
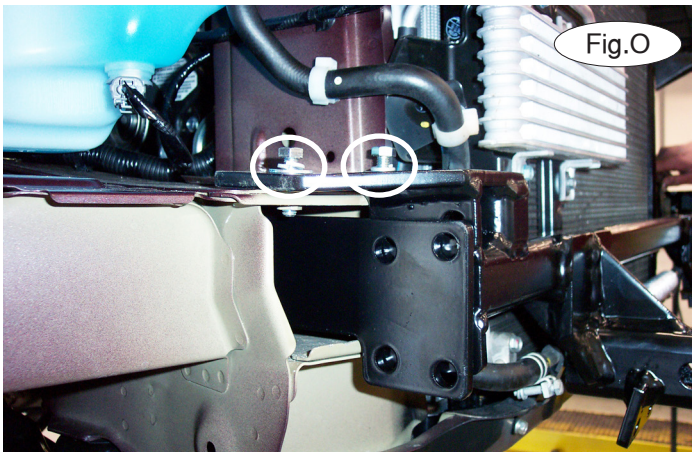
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10. On each side, place a $\frac{1}{4}$ " x $1\frac{1}{4}$ " x 2" backing plate over the $\frac{1}{2}$ " carriage bolt installed in the previous step. Bolt it into place using a $\frac{1}{2}$ " lock washer and nut (Fig.M – passenger side).

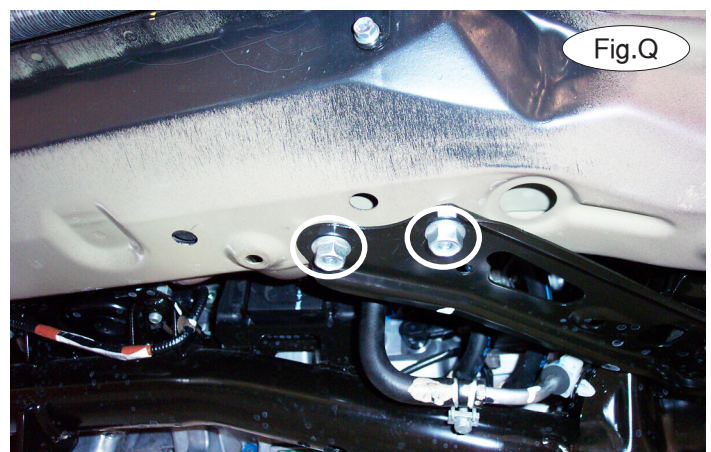
11. Starting on the passenger side, place the $\frac{5}{8}$ " lock washer and plate washer over the supplied $\frac{5}{8}$ " x $2\frac{1}{2}$ " bolt, and bolt through the existing hole in the side of the frame rail and into the end of the rear brace. Repeat for the driver's side. *Note:* on the driver's side, it is necessary to remove two 10mm (head) bolts attaching the air box to the side of the frame rail to gain access to the existing hole in the side of the frame rail (Fig.N).



12. On each side, set the main receiver brace in place over the ends of the frame rails. Using two 8mm x 1.25 x 30mm bolts, lock washers and fender washers, bolt through the top of the main receiver brace and into the top of the frame rail using the pre-existing holes (Fig.O).

13. On each side, using the four supplied $\frac{7}{16}$ " x $1\frac{1}{4}$ " bolts, lock washers and nuts, bolt the main receiver brace to the rear receiver brace (Fig.P).

14. On each side, remove two 17mm (head) bolts attaching the radiator support brace to the radiator support (Fig.Q).



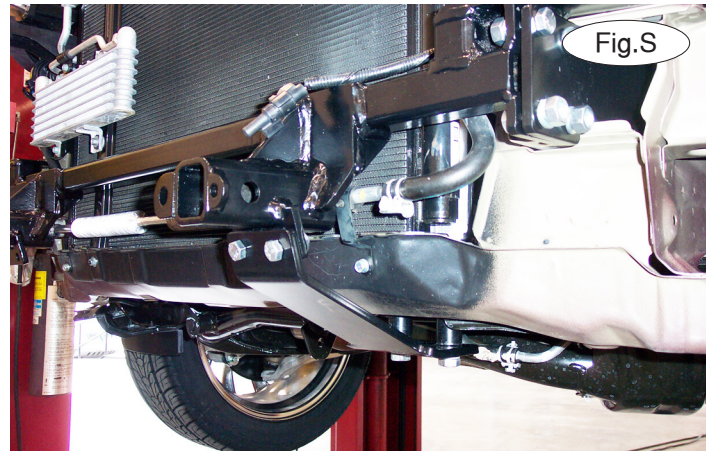


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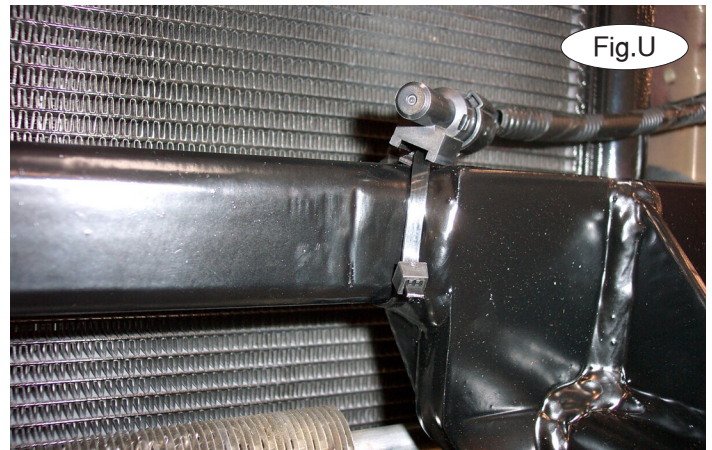
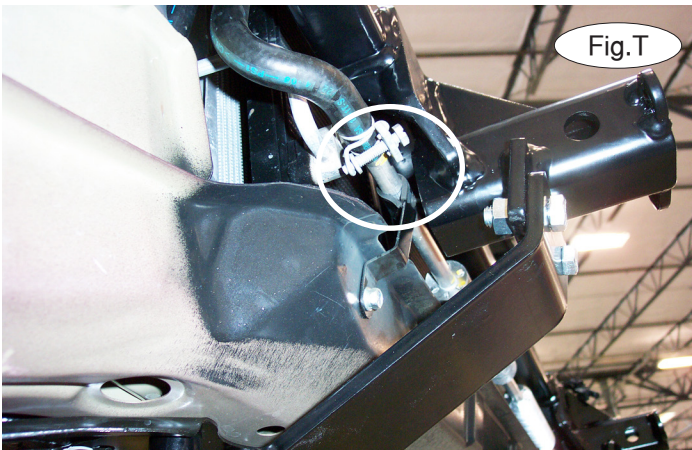
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15. Starting on the driver's side, place two of the supplied 12mm x 1.50 x 60mm bolts through a lower brace, place the 1" x 1" pipe spacers over the bolts, and temporarily bolt the brace to the radiator core (Fig.R).
16. Using two of the supplied 7/16" x 1 1/4" bolts, secure the lower brace to the main receiver brace (Fig.R).
17. Repeat steps 15 and 16 for the passenger side.



18. Tighten all the bolts to the bolt torque requirements found at the end of this document. *Note:* make certain the power steering cooler is not contacting any of the braces (Fig.T). If it is, bend the mounting bracket back until there is no contact.
19. Temporarily remove the lower braces and secure the air box.
20. Use a zip tie to reattach the ambient temperature sensor to the main receiver brace (Fig.U).
21. Trim the fascia to allow for clearance of the main receiver brace. Use the red lines in Figure V as a reference for trimming.
22. Reattach the center splash shield, reversing step 9. Reassemble the fascia, reversing steps 1 through 5.





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23. Reinstall the lower braces, repeating steps 15 and 16 (Fig.V). Tighten the bolts to the bolt torque requirements found at the end of this document.
24. Insert the removable front bracket arms into the front receiver braces, 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 front of the receiver braces (Fig.W).
26. Attach the ends of the safety cables to the tow vehicle's safety cables.
27. 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.