

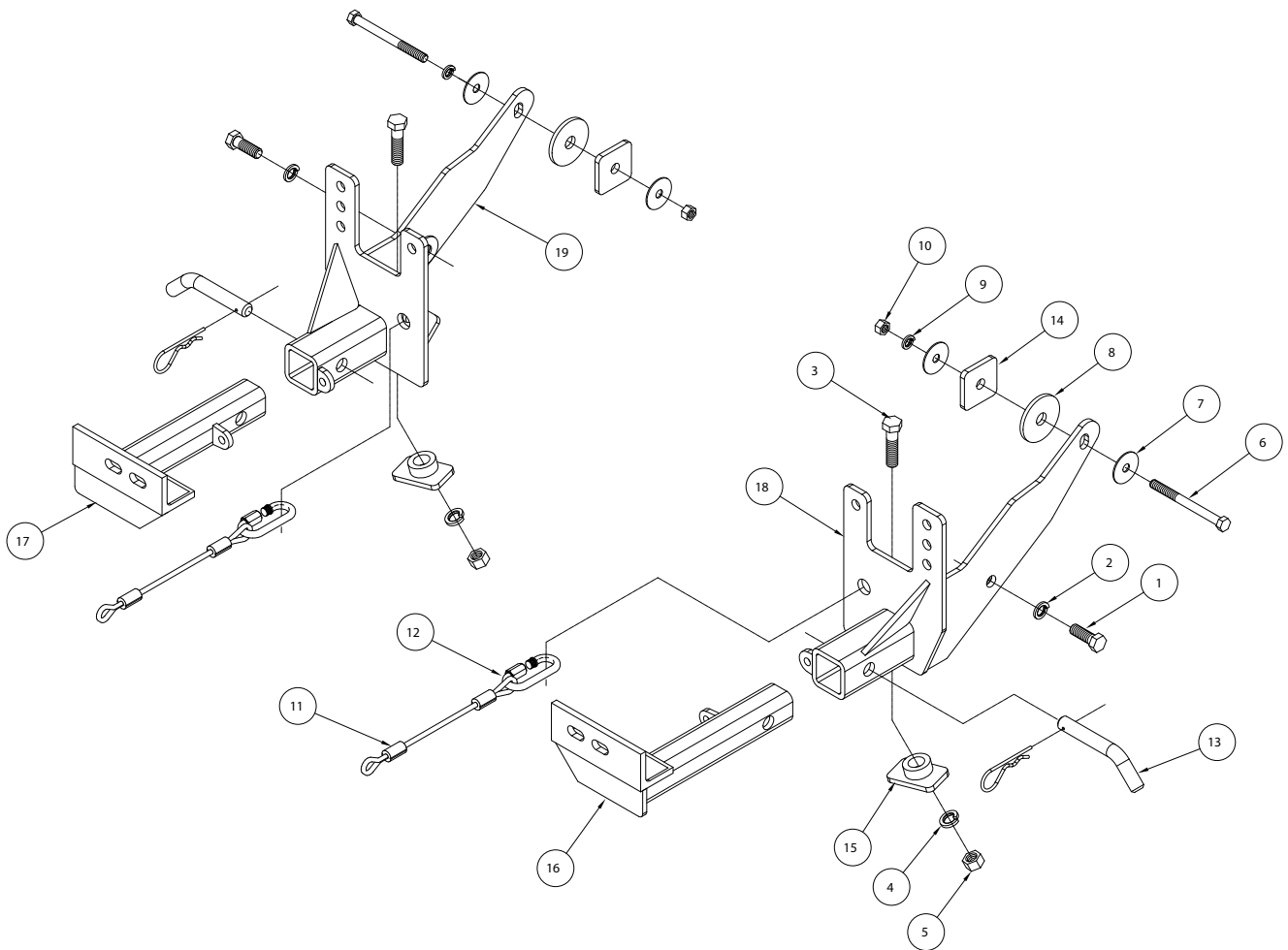


# BASEPLATE KIT INSTALLATION INSTRUCTIONS

**KIT# 1185-1**

03/01/21  
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.....	2.....2.....	12mm x 1.25 x 35mm BOLT .....	357002-00
2.....2.....	2.....2.....	12mm LOCK WASHER.....	355725-00
3.....2.....	2.....2.....	1/2" x 2" BOLT.....	350097-00
4.....2.....	2.....2.....	1/2" LOCK WASHER .....	350309-00
5.....2.....	2.....2.....	1/2" HEX NUT .....	350258-00
6.....2.....	2.....2.....	3/8" x 4" BOLT.....	350067-00
7.....4.....	4.....4.....	3/8" x 1 1/2" FENDER WASHER .....	350305-10
8.....2.....	2.....2.....	1/2" PLATE WASHER .....	350351-00
9.....2.....	2.....2.....	3/8" LOCK WASHER .....	350305-00
10.....2.....	2.....2.....	3/8" HEX NUT .....	350254-00
11.....2.....	2.....2.....	SAFETY CABLES 12".....	650648-12
12.....2.....	2.....2.....	3/8" QUICK LINK .....	200008-00
13.....2.....	2.....2.....	5/8" PIN W/ CLIP.....	357035-00
14.....2.....	2.....2.....	BACKING PLATE 3/16" x 2" x 2" .....	A001066
15.....2.....	2.....2.....	BACKING PLATE 3/16" x 1 1/2" x 2 1/2" .....	C001405
16.....1.....	1.....1.....	DRIVER SIDE ARM .....	C001403
17.....1.....	1.....1.....	PASSENGER SIDE ARM.....	C001404
18.....1.....	1.....1.....	DRIVER SIDE RECEIVER.....	C001502
19.....1.....	1.....1.....	PASSENGER SIDE RECEIVER .....	C001503



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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 passenger and driver side main receiver brace, two removable front braces and a hardware pack. The main receiver braces mount to the frame rails and the tow hooks, the removable front braces install in the main receiver braces.

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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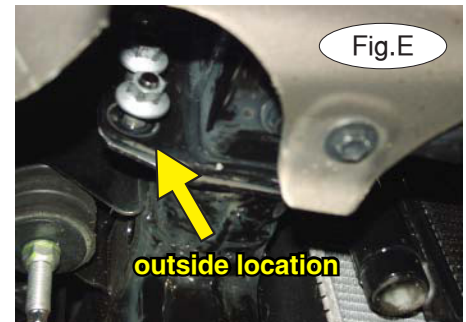
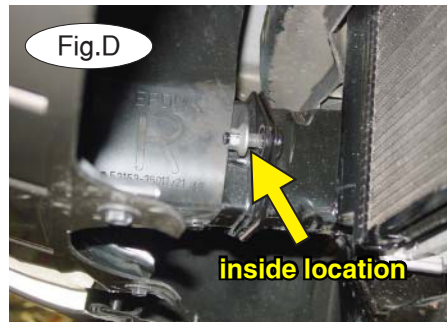
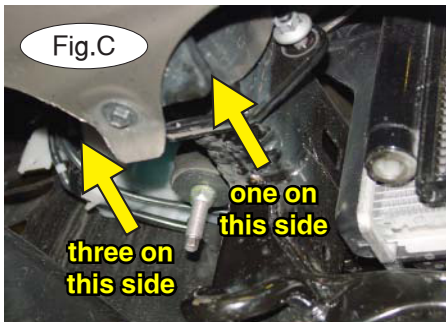
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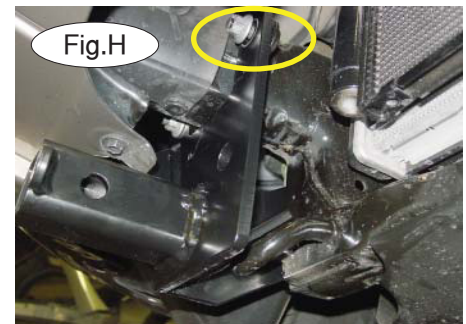
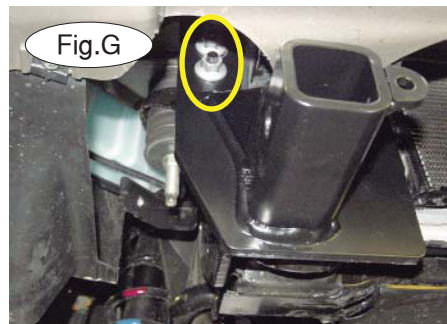
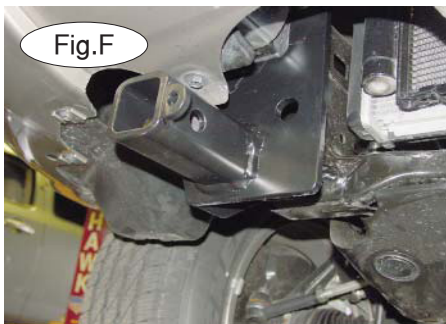
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## '06-'07 Lexus GX470 and '06 and later Toyota 4Runner models

This baseplate kit fits the '06-'07 Lexus GX470, and '06 and later Toyota 4Runner models. For '06-'07 Lexus GX470 and the '06-'09 Toyota 4Runner models: Follow the instructions below. For '10 and later Toyota 4Runner models: See the separate section included in these instructions.



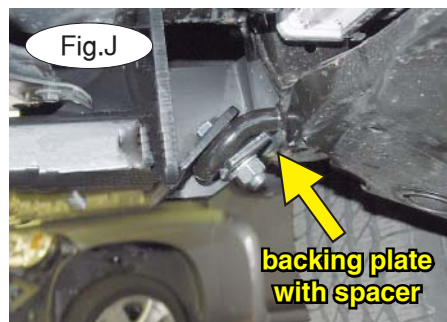
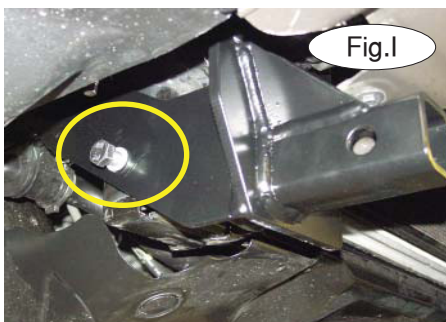
1. **Important:** please use all supplied bolts and parts and read all instructions carefully before beginning this installation. The majority of questions you may have can be answered within the text, and proper installation will ensure safe and secure travel. Now, begin the installation. Starting on the passenger side, remove four 14mm (head) nuts attaching the bumper core to the frame rail (Fig.C). One is located on the inside of the vehicle (Fig.D). The remaining three are located on the opposite side toward the outside of the vehicle (Fig.E). *Note:* due to manufacturing variances, the nuts may be bolts instead.



2. Next, place one of the main receiver braces over the studs you removed the nuts from in the previous step (Fig.F). Now, replace the four nuts (Fig.G,H) and tighten to the torque specifications listed at the end of these instructions.

3. Using the supplied 12mm x 1.25 x 35mm bolt and lock washer, bolt through the lower side hole in the main receiver brace and into the factory weld nut in the frame (Fig.I).

4. Now, bolt the main receiver brace to the tow hook. Place the 3/16" x 1 1/2" x 2 1/2" backing plate with spacer on the back side of the tow hook. Bolt into place using the supplied 1/2" x 2" bolt, lock washer and nut (Fig.J).



5. Using the upper hole in the side of the main receiver brace as a template, drill through the side of the frame rail using a 1/2" drill (Fig.K). *Note:* use caution not to drill through any engine components which may be on the other side.

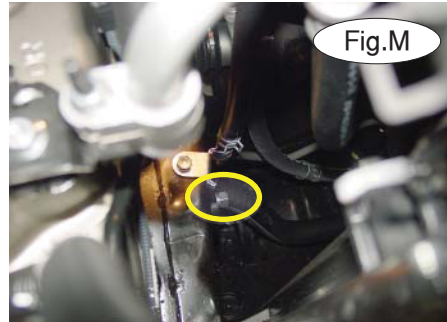
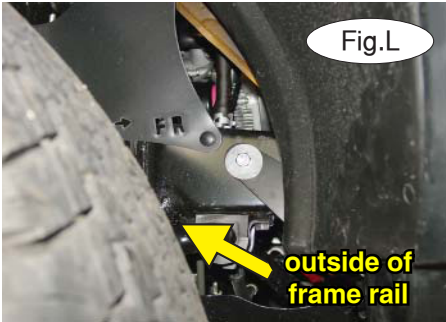


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6. Now, bolt through the hole in the main receiver brace and the hole you drilled through the frame rail using a 3/8" x 4" bolt, fender washer and plate washer (the fender washer goes on the outside of the main receiver brace, the plate washer goes between the main receiver brace and the frame rail – Fig.L). Finish with a 3/16" x 2" x 2" backing plate and 3/8" flat washer, lock washer and nut (on the opposite side of the frame rail – Fig.M).
7. Repeat steps 1 through 6 for the driver side of the vehicle.
8. Tighten all bolts to the torque specifications listed at the end of these instructions, starting with the 14mm (head) nuts.
9. Fit the removable front braces into the front receiver braces, and secure them in place with the supplied 5/8" draw pins and spring pins (Fig.N).
10. 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.



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## Supplemental Instructions for '10 and later Toyota 4Runner models

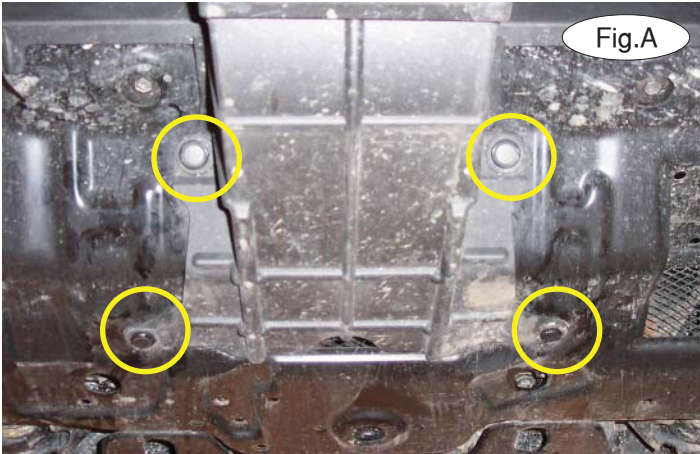


Fig.A

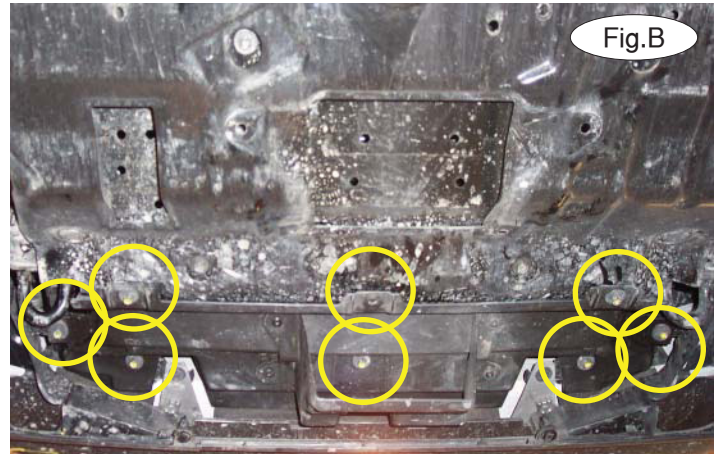


Fig.B

1. Remove four plastic fasteners attaching the air intake ducting to the rock guard (Fig.A)
2. Remove five 10mm (head) bolts attaching the center splash shield to the bottom of the fascia, and three 10mm (head) bolts attaching the center splash shield to the rock guard (Fig.B). *Note:* due to manufacturing variances, there may be three 10mm (head) bolts in the back and two in the front, along with one plastic fastener.



Fig.C



Fig.D

3. On each side, remove four 10mm (head) bolts attaching the outer splash shield to the bottom of the fascia (Fig.C – driver's side).
4. On each side, remove four 14mm (head) bolts attaching the bumper core to the frame rail.
5. Complete steps 2 through 8 in the main installation instructions and then return to step 6 in this supplement.
6. Now, trim the rear splash shield using the yellow lines in Figure D as a guide for trimming.



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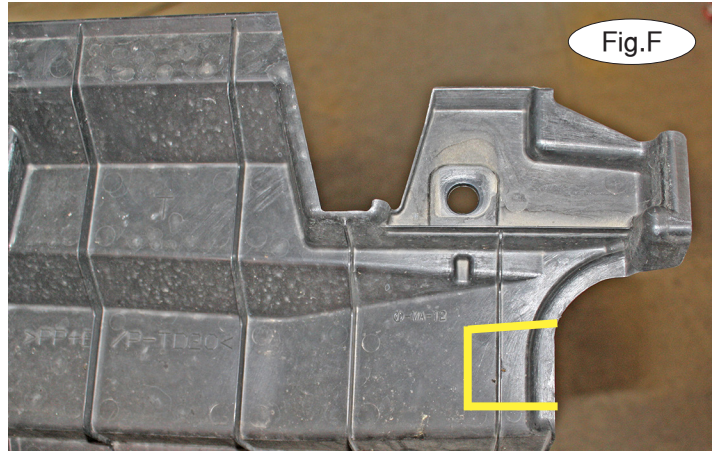
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Fig.E



Fig.F



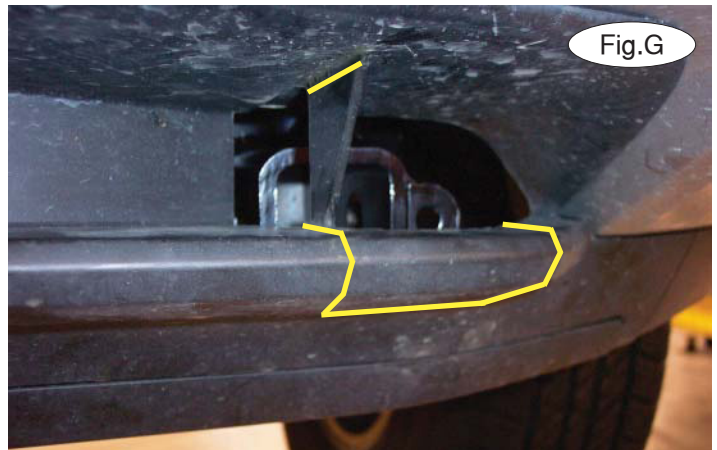
7. If your center splash shield looks like **Figure E**: Use the yellow lines as a guide for trimming. If your center splash shield looks like **Figure F**: Use the yellow lines as a guide for trimming.

8. Trim the fascia using the yellow lines in Figure G as a guide for trimming.

9. Fit the removable front braces into the front receiver braces, and secure them in place with the supplied 5/8" draw pins and spring pins.

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

Fig.G



## BOLT TORQUE REQUIREMENTS

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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.

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