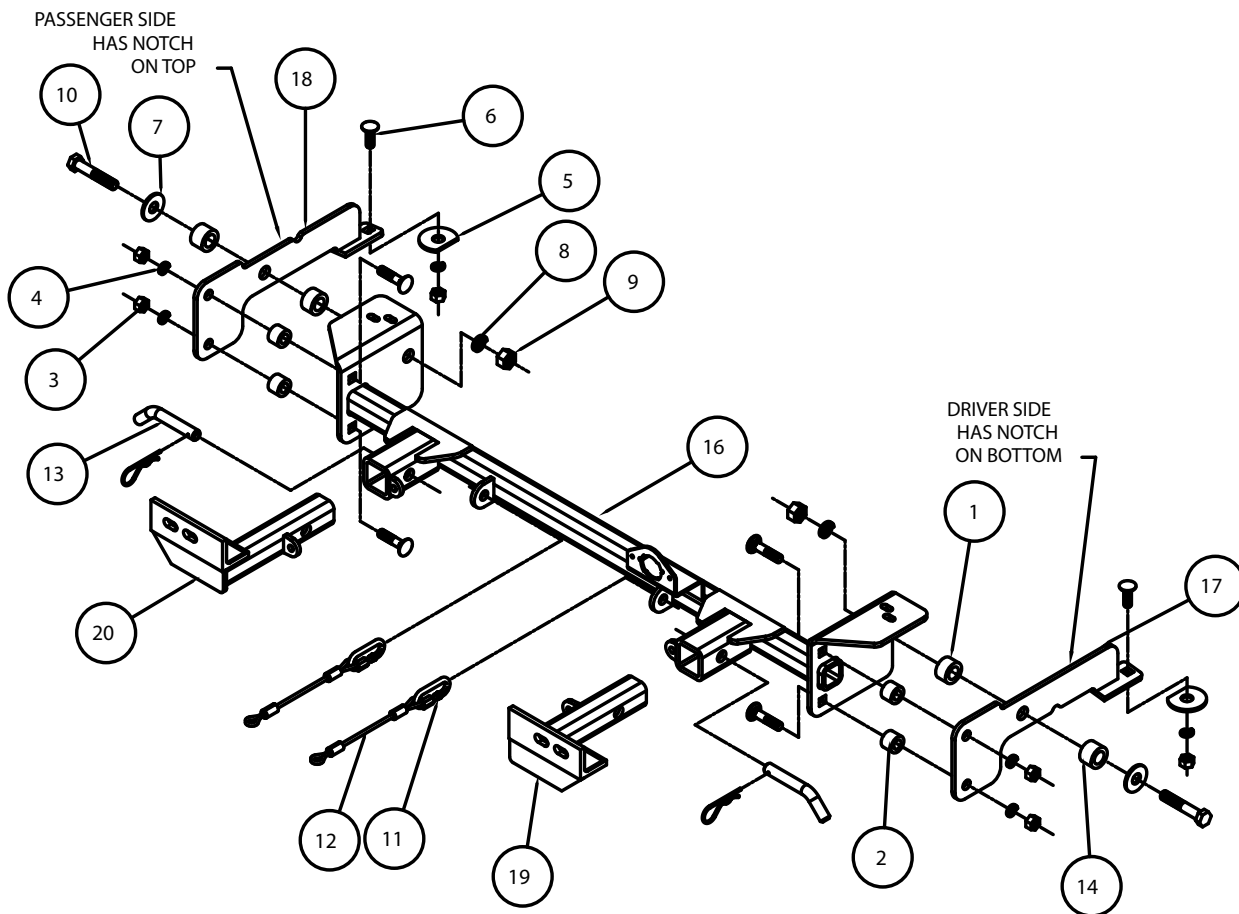




# MOUNTING BRACKET KIT INSTALLATION INSTRUCTIONS

**KIT# 1541-3**

04/18/12



ITEM	QTY	NAME	MATERIAL
1.....	2.....	1 1/4" x 3/4" x .250 WALL ROUND TUBE .....	150096-00
2.....	4.....	1" x 3/4" x .219 WALL ROUND TUBE .....	150044-00
3.....	6.....	1/2" NUT .....	350258-00
4.....	6.....	1/2" LOCK WASHER .....	350309-00
5.....	2.....	1/2" PLATE WASHER.....	A-003086
6.....	6.....	1/2" x 2" CARRIAGE BOLT.....	350373-00
7.....	2.....	5/8" FLAT WASHER.....	350312-00
8.....	2.....	5/8" LOCK WASHER .....	350313-00
9.....	2.....	5/8" NUT .....	350262-00
10.....	2.....	5/8" x 3 1/2" BOLT.....	350163-00
11.....	2.....	CABLE CONNECTOR.....	200008-00
12.....	2.....	10" SAFETY CABLES.....	500646-10
13.....	2.....	DRAW PIN / SPRING PIN .....	357035-00
14.....	2.....	1 1/4" x 7/8" x .250 WALL ROUND TUBE .....	150096-00
15.....	2.....	7" ZIP TIE.....	300140-00
16.....	1.....	MAIN RECEIVER.....	C-000292
17.....	1.....	DRIVER SIDE FRAME BRACE.....	C-000295
18.....	1.....	PASSENGER SIDE FRAME BRACE .....	C-000296
19.....	1.....	DRIVER SIDE ARM.....	C-000356
20.....	1.....	PASSENGER SIDE ARM .....	C-000357

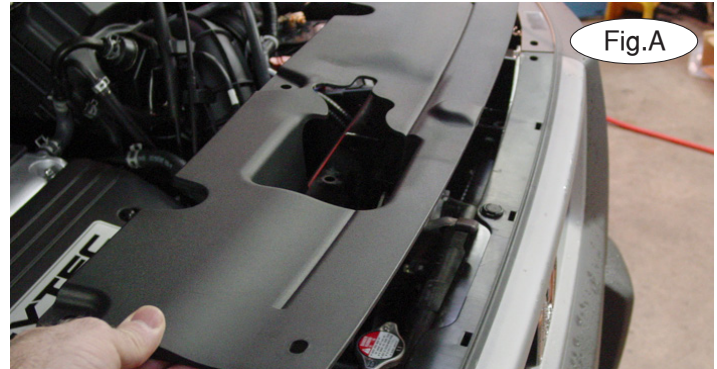


# MOUNTING BRACKET KIT INSTALLATION INSTRUCTIONS

**KIT# 1541-3**

04/18/12

This bracket kit is one of our XL series, which is designed to be partly removable (Fig.A). The kit consists of the main receiver brace, front braces, rear side braces and a hardware pack. The main receiver brace replaces the bumper core behind the front bumper fascia and mounts to the front frame and radiator support area on each side. The front braces insert into the receivers on each side. Start by laying the kit out according to the illustration. This will give you a visual idea of how the kit installs and also confirm that the kit components are present and accounted for.



**IMPORTANT:** All brackets **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

ROADMASTER Limited Warranty, including One-Year Conditional Warranty Text and Product Registration Card, in Carton.

## **WARNING**

Failure to follow these instructions can result in property damage, personal injury or even death.

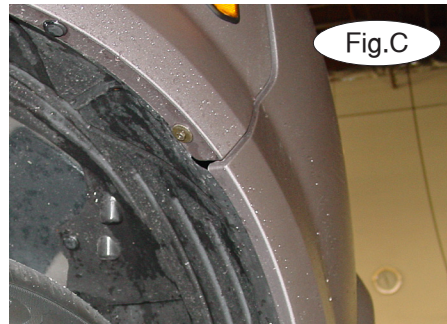
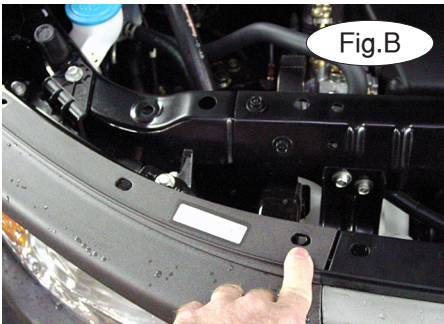
- Installation of most mounting brackets requires moderate mechanical aptitude and skills. We strongly recommend professional installation by an experienced installer.
- The installer must read the instructions and use all bolts and parts supplied. Failure to do so could result in loss of the towed vehicle.
- Use Loctite® Red on all bolts used for mounting this bracket.
- 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 mounts and brackets for cracks or other signs of fatigue every 3,000 miles. Failure to do so could result in loss of the towed vehicle.
- 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.
- If running changes were made by the vehicle manufacturer after this bracket 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 that the bracket is securely fastened to the vehicle and fitted with the correct hardware to account for these changes. Failure to securely fasten the bracket 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 bracket. Do not install the bracket if any structural frame damage is found. Failure to repair the damage could result in the loss of the towed vehicle.
- Roadmaster manufactures many styles of brackets. If your bracket 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, resulting in non-warranty damage or personal injury.
- Some motorhome chassis have such a tight turning radius that you can damage your motorhome, towed vehicle, tow bar or bracket 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 bracket is designed for use with ROADMASTER tow bars and ROADMASTER adaptors only. Using this bracket with other brands, without an approved ROADMASTER adaptor, may result in non-warranty damage or injury.
- Do not use this document for custom fabrication, as it may not show all parts or structural components. Custom fabrication or an attempt to copy this bracket design could result in loss of the towed vehicle.
- Upon final installation, the installer must inspect the bracket to ensure adequate clearance, particularly around hoses, air conditioner lines, radiators, etc., or non-warranty damage to the towed vehicle will result.
- This bracket is only warranted for the original installation. Installing a used bracket on another vehicle is not recommended and will void the warranty.



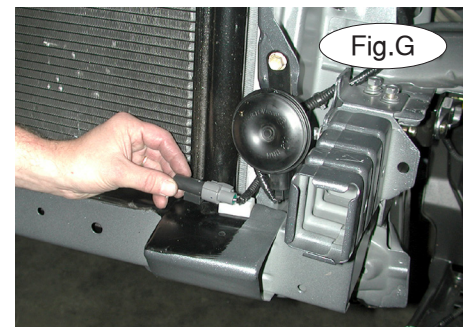
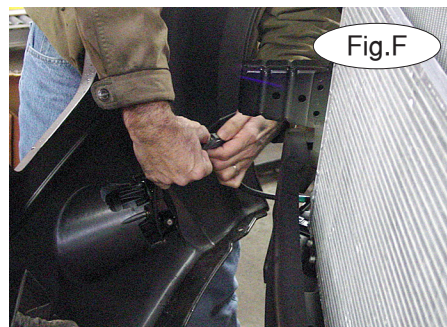
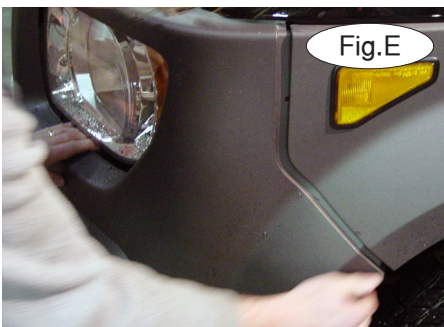
# MOUNTING BRACKET KIT INSTALLATION INSTRUCTIONS

**KIT# 1541-3**

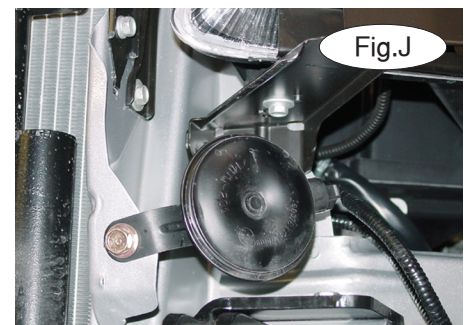
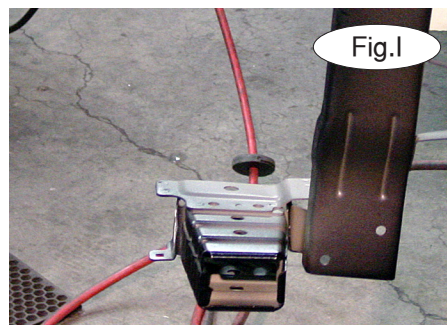
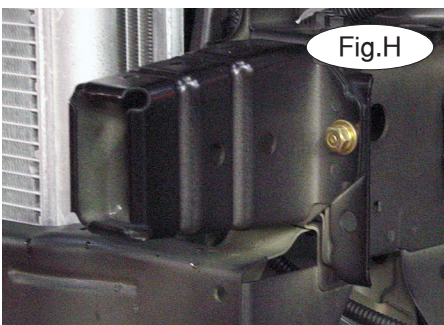
04/18/12



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 the plastic fasteners in the top plastic grille cover. You will have five to seven plastic fasteners and a 10mm (head) bolt next to the battery, depending on which model your vehicle is. Once the fasteners are removed, simply lift the cover off and set aside (Fig.B). The Honda Element will have three more plastic fasteners over the headlight area that will have to be removed (Fig.C).



2. Remove three 10mm (head) screws on each side. One is located in the top of the fender well (Fig.D) and two are underneath on each side (Fig.E). Some vehicles may have more fasteners in the fenderwells. Remove the remaining plastic fasteners in the bottom of the fascia. Pull forward on the fascia (Fig.F), disconnect the foglights (Fig.G) then set aside.



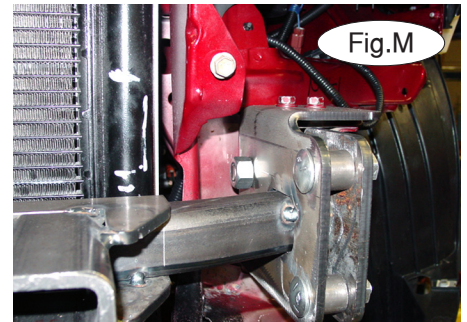
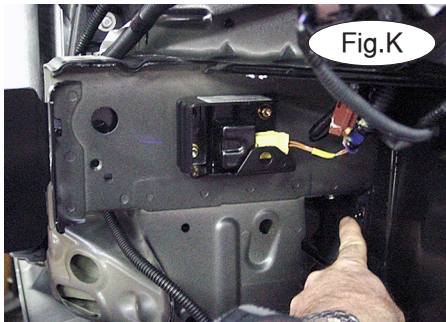
3. Remove the outside temperature sensor from the bumper core and use the two supplied zip ties to reattach the temperature sensor to the main brace after installation. (Fig.H). Now, find seven to eight 10mm (head) bolts four or five on the passenger side and three on the driver side, holding the steel bumper core and mounts, remove these bolts on each side (Fig.I) then pull forward to remove the bumper core and the bumper core supports (Fig.J). The bumper core is replaced by the receiver brace and will not be reinstalled. *Note:* retain the bumper core and attachment hardware so that it can be replaced if the bracket is ever removed.



# MOUNTING BRACKET KIT INSTALLATION INSTRUCTIONS

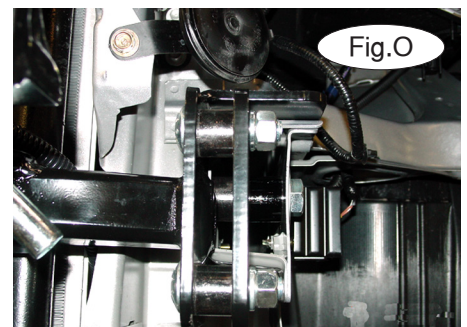
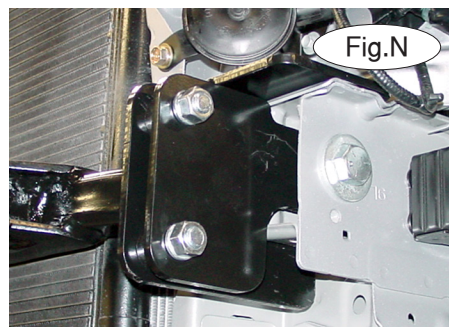
**KIT# 1541-3**

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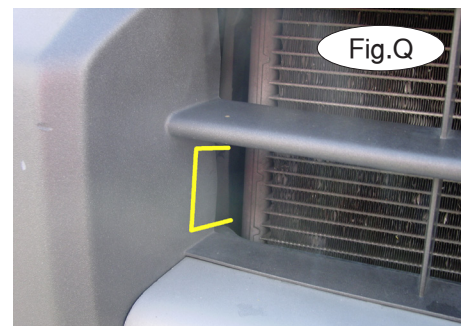
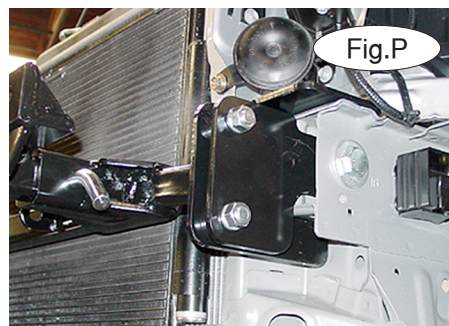


4. Loosen the horns, one 10mm head bolt in each mount (Fig.K).
5. Working on the driver's side, put a  $\frac{1}{2}$ " x 2" carriage bolt through the rear mounting hole in a rear side mounting brace. Insert this brace into the front of the formed frame tube with the rear bolt through a corresponding hole in the bottom of the frame. Secure with a  $\frac{1}{2}$ " nut, clipped plate washer, lock washer and nut (Fig.L). Leave loose at this time.
6. Repeat step 5 for the passenger side. *Note:* an additional fender well fastener can be removed and the fender liner pushed back to allow access to the rear mounting bolt on the passenger side (Fig.M).

7. Hold the main receiver brace between the frame tubes and bolt through the two top holes on each side with four of the bolts removed from the bumper core in step 3 (Fig.N). Leave loose at this time.



8. Now looking at your illustration, take a  $\frac{5}{8}$ " x  $3\frac{1}{2}$ " bolt,  $\frac{5}{8}$ " flat washer,  $\frac{7}{8}$ " x  $1\frac{1}{4}$ " o.d. pipe spacer,  $\frac{3}{4}$ " x  $1\frac{1}{4}$ " o.d. pipe spacer, lock washer and nut (Fig.O,P). Put a  $\frac{5}{8}$ " flat washer on the bolt then insert through a existing frame side hole, a spacer, the rear side brace, a spacer then the other side of the frame and the main receiver brace side plate. Finish with a  $\frac{5}{8}$ " lock washer and nut. Do this on both sides (Fig.O,P). *Note:* be sure to place the  $\frac{7}{8}$ " long pipe spacer on the outside of the rear braces.



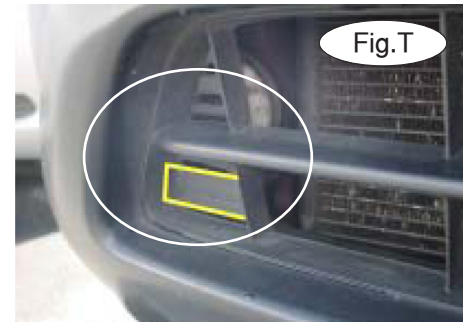
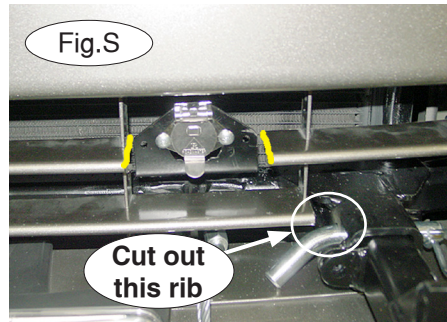
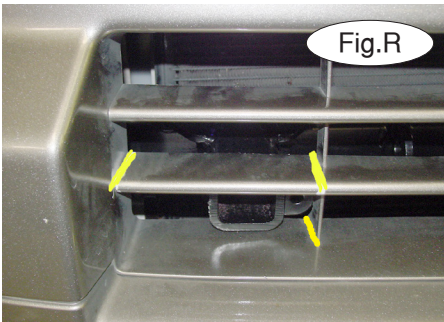
9. Bolt through the two front holes on each side in the receiver brace and side braces with  $\frac{1}{2}$ " x 2" carriage bolts, flat washers,  $\frac{3}{4}$ " x 1" spacers, lock washers and nuts (Fig.O,P,Q).



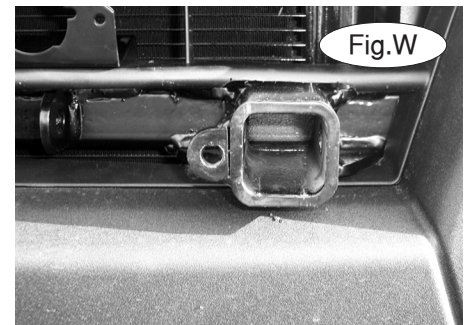
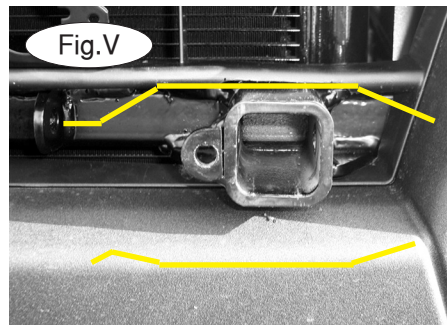
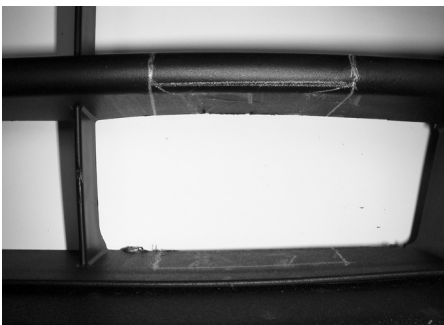
# MOUNTING BRACKET KIT INSTALLATION INSTRUCTIONS

**KIT# 1541-3**

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10. Torque all bolts to the bolt torque requirements found at the end of this document.
11. Tighten the horns loosened in step 4, bending or displacing the mounting to prevent the horns from touching any part of the vehicle or brace. *Note:* any contact with any object other than the horn mount will either alter or prevent sound output.
12. Reverse steps 1 through 3 to reinstall the bumper fascia and top cover. **For 2003 to 2008 Element models:** you may need to trim the fascia on both sides to accommodate the main receiver brace and the light plug. Refer to the yellow marker lines in Figures R, S and T for correct trimming. **For 2002 to 2004 CRV models:** refer to the yellow lines in Figure U for correct trimming. **For 2009 to 2011 Element models:** refer to the yellow lines in Figure V as a guide for trimming. Figure W shows the installed bracket after the trimming.



13. Insert the front braces into the receiver tubes and secure with 5/8" draw pins and spring pins .
14. Install the tow bar according to the manufacturer's instructions.
15. Attach one end of the 10" safety cables to the front holes on the receiver cross bar on each side of the receiver brace with the included cable connectors. Connect the other end to the tow vehicle's safety cables and the tow bar.

## 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.