

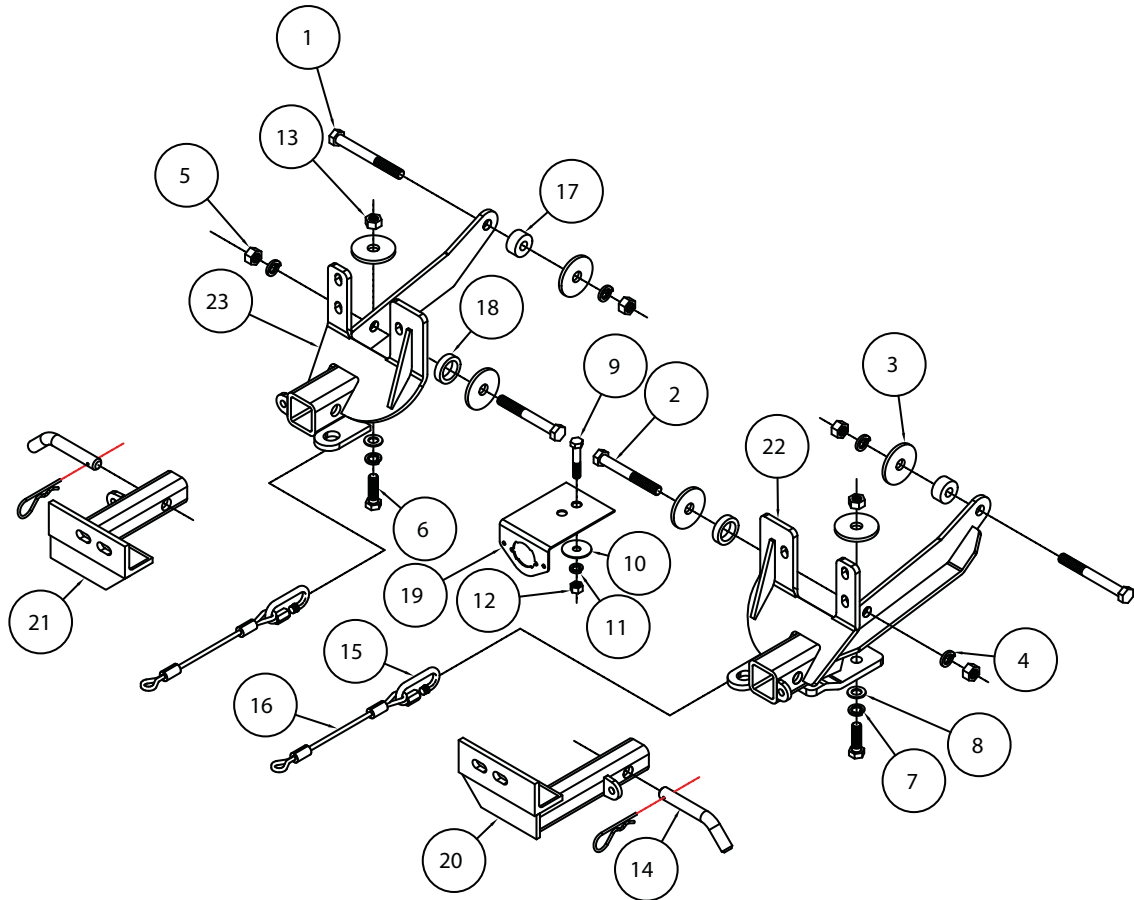


# MOUNTING BRACKET KIT INSTALLATION INSTRUCTIONS

**KIT# 1175-1**

02/24/12  
KS

ROADMASTER, Inc. 6110 NE 127th Ave. Vancouver, WA 98682 1-800-669-9690 fax 360-735-9300 www.roadmasterinc.com



ITEM	QTY	NAME	MATERIAL
1.....2.....	2	1/2" x 4 1/2" BOLT.....	350106-00
2.....2.....	2	1/2" x 4" BOLT.....	350105-00
3.....6.....	6	1/2" PLATE WASHER.....	350354-00
4.....4.....	4	1/2" LOCK WASHER.....	350309-00
5.....4.....	4	1/2" HEX NUT.....	350258-00
6.....2.....	2	12mm x 1.25 x 40mm BOLT.....	357003-00
7.....2.....	2	12mm LOCK WASHER.....	355725-00
8.....2.....	2	12mm FLAT WASHER.....	355720-00
9.....1.....	1	3/8" x 2" BOLT.....	350059-00
10.....1.....	1	3/8" FENDER WASHER.....	350305-10
11.....1.....	1	3/8" LOCK WASHER.....	350305-00
12.....1.....	1	3/8" HEX NUT.....	350254-00
13.....2.....	2	12mm HEX NUT.....	356240-00
14.....2.....	2	5/8" DRAW PIN WITH CLIP.....	357035-00
15.....2.....	2	QUICK LINK.....	200008-00
16.....2.....	2	8" SAFETY CABLE.....	650646-08
17.....2.....	2	1 1/4" x 5/8" PIPE SPACER.....	A-000908
18.....2.....	2	1 1/2" x 0.219 x 3/8" PIPE SPACER.....	A-001826
19.....1.....	1	WIRE PLUG CONNECTOR PLATE.....	B-000777
20.....1.....	1	DRIVER SIDE ARM.....	C-001142
21.....1.....	1	PASSENGER SIDE ARM.....	C-001143



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

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 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.

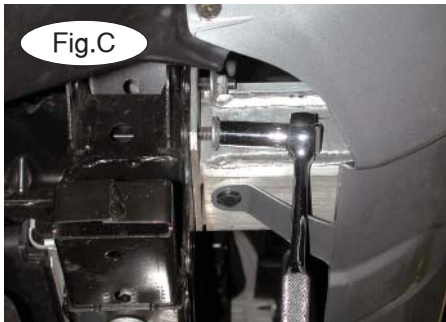


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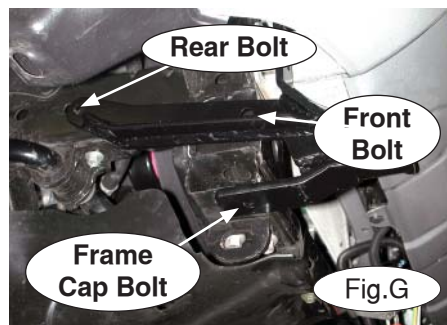
1. **Important:** please use all supplied bolts and parts and read all instructions carefully before beginning this installation. The majority of questions you may have can be answered within the text, and proper installation will ensure safe and secure travel. Now, begin the installation by removing the plastic fastener at the top of the fascia, near the center (Fig.C). Start by removing, on each side, three 14mm (head) nuts on the bumper support – two on the outside, and one on the inside (Fig.C).

2. Next, on each side, remove the 17mm (head) bolt holding the frame cap (Fig.D). Then, remove the frame caps. *Note:* the frame caps are only on 4-wheel drive and Prerunner models. The standard two-wheel drive models do not have a frame cap, and a hole must be drilled in the frame to mount the bracket. See the note in step 6 below.

3. If the vehicle is equipped with a larger tow hook (Fig.E), remove the tow hook.

4. Position the driver's side and the passenger side main receiver braces – first, slide each brace over the bumper support (Fig.F). Then, slide the brace back over the bumper support studs. Figure G shows a brace in position to be bolted, as well as the location of the three bolts which will hold it in place.

5. Replace the three 14mm (head) nuts, on each side of the bumper support, which you removed in step 1 (Fig.H).



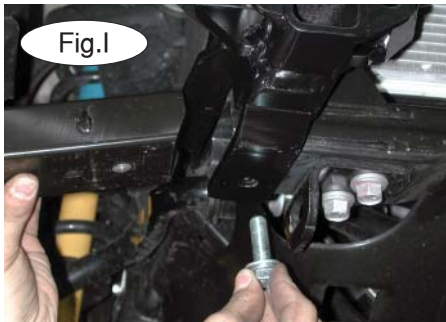


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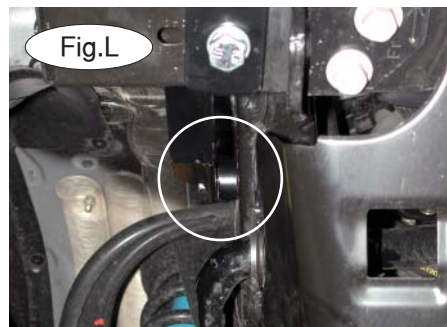


6. Replace the frame caps you removed in step 2, and bolt through the lower part of each main brace with a 12mm x 1.25" x 40mm bolt, flat washer and lock washer (Fig.I).

*Note:* standard two-wheel drive models do not have a frame cap, and a hole must be drilled in the frame rail to mount each main receiver bracket. Figure J shows where the hole is to be drilled on each frame rail.

Once the main brace is positioned over the frame rail, use the hole in the main receiver brace as a template, and drill a 1/2" hole through the bottom of the frame rail. Bolt through with a 12mm x 1.25 x 4mm bolt and flat washer from the bottom. On the inside of the frame rail, put a 1/2" plate washer over the bolt, and finish with a 12mm lock washer and nut. Repeat for the other side.

7. Next, bolt the rear of the main braces to the frame. On the outside of the frame, insert one of the 4 1/2" bolts through the existing hole in the frame, with a 1 1/4" x 5/8" pipe spacer between the brace and the frame (Fig.K). Figure L shows the bolt in place, with the pipe spacer between the brace and the frame. Repeat for the other side. *Note:* due to manufacturing variances, the rear holes may need to be enlarged if existing or drilled if non-existent.



8. Next, from the inside of the frame, thread a 1/2" plate washer, 1/2" lock washer and 1/2" nut onto each rear bolt to secure them in place (Fig.M).



9. To mount the front bolts, insert a 1 1/2" x 3/8" pipe spacer between the frame and the brace. From the outside of the frame, bolt through the existing hole with a 1/2" x 4" bolt (Fig.M). From the inside of the frame, thread a 1/2" plate washer, lock washer and nut onto the bolt to secure it (Fig.O). Repeat for the other side.



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10. Bolt the supplied light plug bracket to the frame cross member, using one of the pre-existing holes. Use a 1-3/8" x 2" bolt, fender washer, lock washer and nut (Fig.P).
11. Tighten all bolts to the torque specifications at the bottom of these instructions.
12. If the vehicle is equipped with a rock guard, it must be removed and trimmed on each side to accommodate the mounting bracket and receiver braces. Figure Q shows the approximate amount to trim on each side; Figure R shows the trimmed rock guard and bracket.
13. Fit the front bracket arms into the receiver braces, and secure them in place with the supplied 5/8" draw pins and spring clips (Fig.S).
14. Attach the 8" safety cables with the cable connectors (Q-Links) to the front of the receiver braces (Fig.S).
15. Attach the ends of the safety cables to the tow vehicle's safety cables and tow bar.
16. 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.