

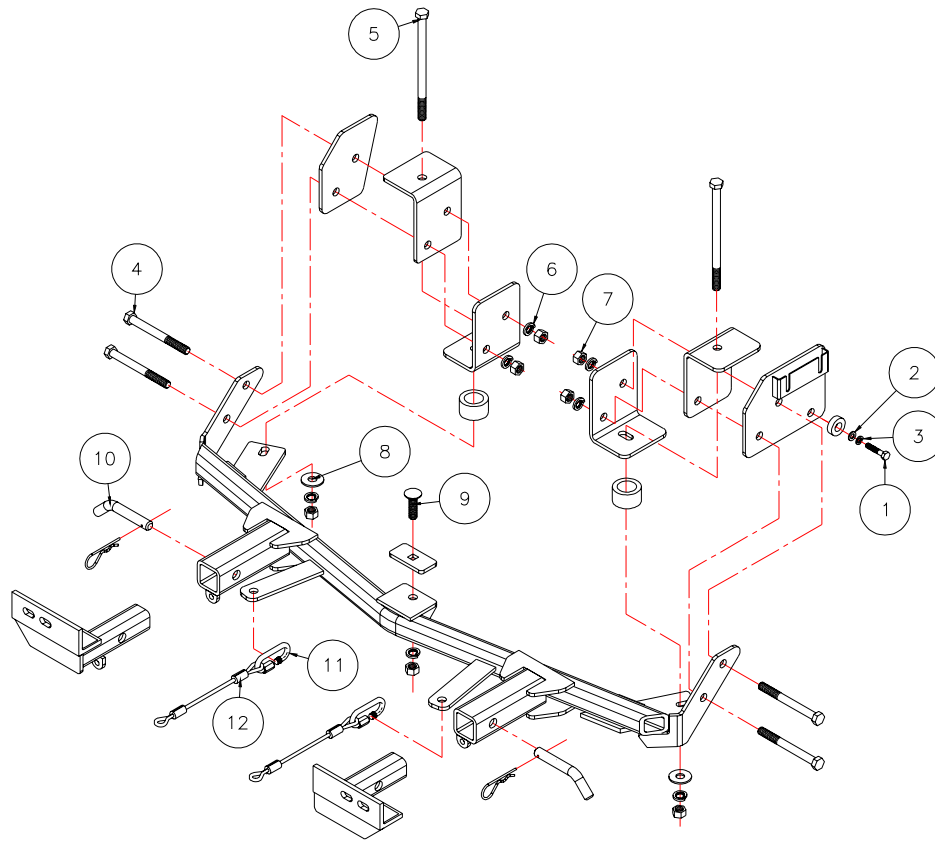


MOUNTING BRACKET KIT INSTALLATION INSTRUCTIONS

KIT NO. 270-1

01/27/04

ROADMASTER, Inc. 5602 N.E. Skyport Way Portland, OR 97218 1-800-669-9690 Fax 1-503-288-8900 www.roadmasterinc.com



Item	Qty	Length	Width	Hardware	Part No.
1	1	40mm	6mm	6mm x 1.0 x 40mm	355751-00
2	1		6mm	FENDER WASHER	355755-00
3	1		6mm	LOCKWASHER	355761-00
4	4	5"	1/2"	BOLT	350107-00
5	2	8"	1/2"	BOLT	350113-00
6	7		1/2"	LOCKWASHER	350309-00
7	7		1/2"	NUT	350258-00
8	2		1/2"	FLAT WASHER	350308-20
9	1	1 3/4"	1/2"	CARRIAGE BOLT	350362-00
10	2			DRAW PIN/SPRING PIN	357035-00
11	2			CABLE CONNECTOR	200008-00
12	2	10"		10" CABLE	500646-10
13	3	6"		ZIP TIE	300140-00

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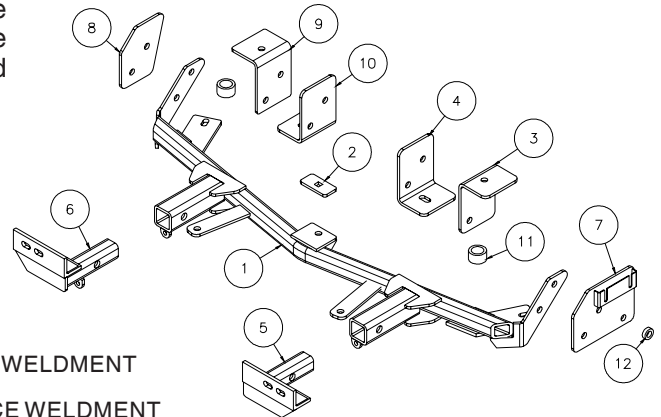
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IMPORTANT: All brackets **must** be assembled with all the bolts left loose for final adjustment & positioning (before tightening) unless otherwise instructed. All bolts **must** be torqued for proper strength. If more than one bolt is used per fastening point, the diagram may only show one.

- Use flat washers over all slotted holes
- Use lock washers on all fasteners



Item	Qty	Part No.	Assembly
1	1	C-000770	MAIN RECEIVER BRACE WELDMENT
5	1	C-000771	DRIVER SIDE ARM BRACE WELDMENT
6	1	C-000772	PASSENGER SIDE ARM BRACE WELDMENT
7	1	C-000773	DRIVER SIDE BACKING PLATE WELDMENT
8	1	A-001285	PASSENGER SIDE BACKING PLATE
2	1	A-000479	1/4" x 1 1/2" x 3" SQ. HOLE BACKING PLATE
3	1	B-000528	DRIVER SIDE UPPER MOUNTING ANGLE
4	1	B-000529	DRIVER SIDE LOWER MOUNTING ANGLE
9	1	B-000530	PASSENGER SIDE UPPER MOUNTING ANGLE
10	1	B-000531	PASSENGER SIDE LOWER MOUNTING ANGLE
11	2	A-001290	1 1/2" O.D. x 7/8" x 0.219 W TUBE SPACER
12	1	A-001445	1" O.D. X 5/16" X 0.25 W TUBE SPACER

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

WARNING

- Do not use this document for custom fabrication as it may not show all parts or structural components.
- ROADMASTER will not be responsible for any damage or injury resulting from any modification or alteration.
- The owner must inspect all mounts and brackets before each use for cracks or other signs of fatigue. Also, inspect the fasteners for proper torque, according to the torque chart.
- The owner must check the 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.
- The installer must read the instructions and use all bolts and parts supplied.
- If the towed vehicle has been in an accident, it must be properly repaired before attaching the brackets. Do not install the brackets if any structural frame damage is found. Failure to repair the damage may result in loss of your towed vehicle.
- Some motorhome chassis have such a tight turning radius that you can damage your motorhome, towed vehicle or tow bar while turning sharply. Before getting on the road, test your turning radius in an empty parking lot. Damage that results from turning too sharply is not covered by warranty.
- The driver must not back up the motorhome with the towed vehicle attached or non-warranty damage will occur to your towing system or towed vehicle.
- The safety cables must connect the towing vehicle to the towed vehicle frame to frame, with the cables crossed. Refer to the cable instructions for proper routing.
- Make sure there is enough slack in the safety cables at the motorhome to allow for sharp turns.
- Use caution when handling the tow bar — if your hands, fingers or any part of your body are caught between moving components, they can be pinched, cut or otherwise injured.
- This bracket is designed for use with ROADMASTER tow bars and ROADMASTER adaptors. Using this bracket with other brands, without an approved ROADMASTER adaptor, may result in non-warranty damage or injury.
- Important! This bracket is only warranted for the original installation. Installing a used bracket on another vehicle is not recommended and will void the warranty.
- Upon final installation, the installer must inspect the bracket to ensure adequate clearance, particularly around hoses, AC lines, radiators, etc., or non-warranty damage will result.



WARNING

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

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1. This is one of our XL bracket series, which allows the visible front portion of the brackets to be easily removed from the front of the vehicle (Fig.A). The bracket kit consists of a main receiver brace, front braces and a hardware pack. The rear receiver braces mount to the bottom and side of the frame and protrude through the lower grill below the bumper core. The front braces insert into the rear braces and pinned in place. The lower grille has to be trimmed to fit around the braces as well as the radiator air deflectors. Before starting the installation, lay out the kit components as illustrated. This will give you a visual idea of how the components work and also confirm that everything is present and accounted for.



2. Begin by removing the front fascia and headlights starting with the headlights. Remove two screws, one short and one long (10mm head) from each headlight (Fig.B), pull forward then disconnect and set aside (Fig.C). Remove six plastic fasteners in the top of the fascia between the headlights (Fig.D). Remove three screws (7mm head) in each fender well (Fig.E), then remove eight more plastic fasteners on the bottom of the fascia (Fig.F). Pull forward, disconnect the fog light connections (Fig.G), then remove and set aside (Fig.H).



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3. The bumper core has two formed plastic ends secured with screws (10mm head), remove one and set aside (Fig.I), then remove the ambient air sensor located on the bottom of the bumper core (Fig.J).
4. Two plastic air deflectors are located on each side of the radiator, remove by pulling down and out then set aside (two plastic fasteners each) (Fig.K). Pull the steering cooler line loose from the bottom of the bumper core (Fig.L).



5. Working on the drivers side first, remove the 10mm head bolt holding the black vacuum canister on the side of the frame (Fig.M), then lift the vacuum canister up and out of the frame retaining slots (Fig.N).





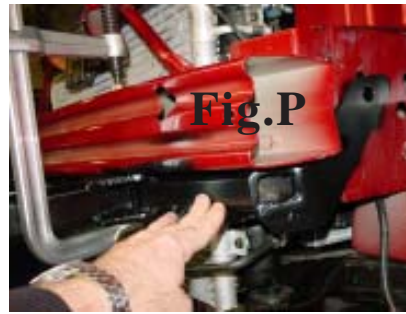
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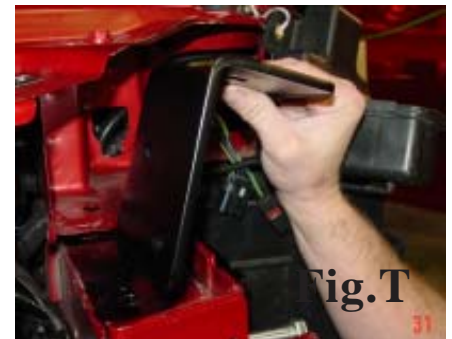
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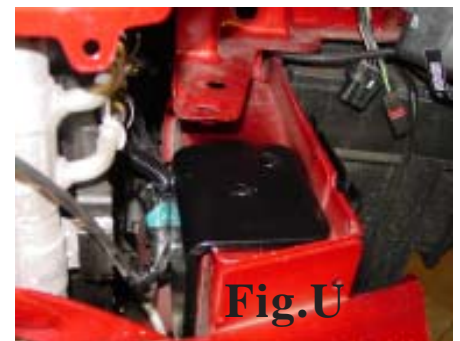
6. Now hold the main receiver brace to the bottom of the bumper core (Fig.O) against the front of the frame on each side. Make sure the back of the brace is against the frame on each side and the receiver tubes are parallel with the bottom of the bumper core. Once the brace is in position clamp to the bottom of the bumper core (Fig.P).



7. Once the brace is clamped and aligned, drill two 17/32" holes through the frame on each side using the receiver brace as a template (Fig.Q).



8. On the drivers side, find a 1/2" x 5" bolt, the large 3/16" x 5" x 7" backing plate. Slide the backing plate between the brace and the frame then bolt through the backing plate, frame, and receiver brace (Fig.R). The passenger side plate is different but installs the same (Fig.S). Start the bolt through the frame on each side to hold in position.



9. Take a upper angle brace and install on the top and inside of the frame as shown on each side (Fig.T,U).



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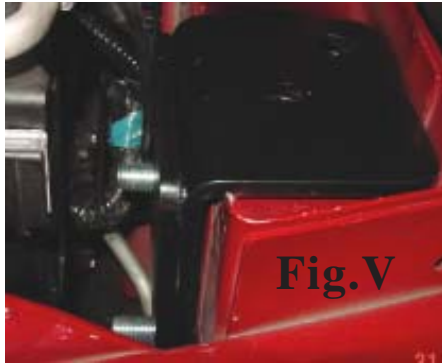


Fig.V



Fig.W

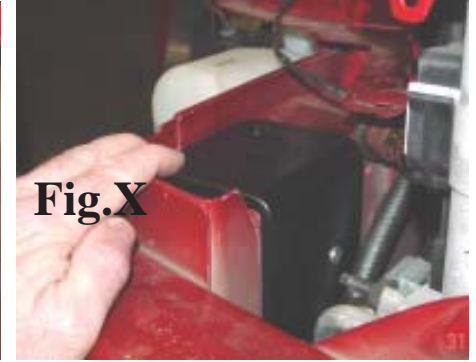


Fig.X

10. Hold a lower angle brace over the upper angle brace and against the bottom of the frame (Fig.V) and finish bolting through with the 5" bolt (Fig.W,X). Finish with a 1/2" lock washer and nut. Now bolt through with the second 5" bolt in the same manner.
11. Tighten the 5" bolts to hold position then using the upper and lower angle brace as a hole template drill 17/32" hole through the frame top and bottom (Fig.Y,Z).

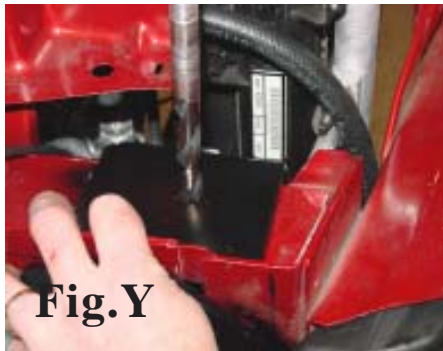


Fig.Y



Fig.Z



Fig.AA

12. Bolt through the upper and lower angle braces, receiver brace and 7/8" spacer (Fig.AA) with a 1/2" x 8" bolt (Fig.BB), flat washer, lock washer and nut (Fig.CC). Do this on both sides then tighten the mounting bolts to hold the receiver brace in position against the bottom of the bumper core.



Fig.BB

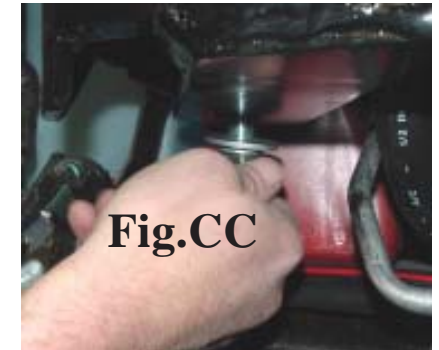


Fig.CC

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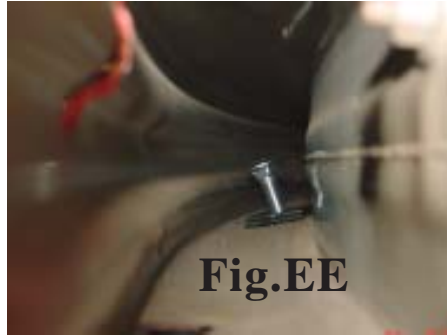
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13. Go to the center of the receiver brace and drill a 17/32" hole through the bottom of the bumper core using the brace as a drill template (Fig.DD).



14. Fish wire a 1/2" x 1 3/4" carriage bolt and 1 1/2" x 3" backing plate into the drilled hole through one end of the bumper core (Fig.EE) then finish with a lock washer and nut (Fig.FF).
15. Torque all the mounting bolts to the specifications on the last page starting with the carriage bolt you just installed (Fig.GG) then the side and bottom bolts (Fig.HH).



16. Go back to the drivers side and hang the accumulator bottle removed in step 5 on the new slots provided (Fig.II). The new slots will change how the accumulator lower mount lines up. Drill another mounting hole in the plastic flange (Fig.JJ) then bolt in place using the supplied 6mm x 1.0 x 40mm bolt, fender washers and lock washer and 5/16" spacer (Fig.KK).





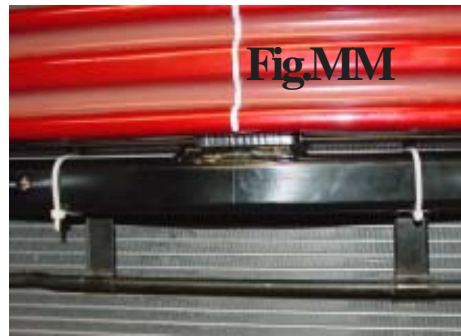
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17. Once the main brace is mounted, not much room exists to put the air seals removed in step 4 back. The lower half can be trimmed off and put back or you can elect to leave them intact by leaving them off as we have chosen to do.
18. Reinstall the plastic bumper end removed in step 3 then zip tie the ambient air sensor (Fig.LL) and the power steering cooling line (Fig.MM) to the receiver brace cross bar as shown. Be sure and position the power steering cooler lines so that adequate clearance exists for lines (Fig.NN).



19. Trim the fascia foam as shown to clear the brace (Fig.OO,PP).



20. To put the fascia back on, the grille must be trimmed to fit over the braces. Trim the lower grill lattice work as shown in in each lower corner (Fig.QQ,RR).

21. Reinstall the fascia reversing steps 2.





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- 22. Insert the front braces into the receivers and pin with 5/8" draw pins and 3/16" spring pins (Fig.QQ,RR).
- 23. Mount the tow bar according to the tow bar manufacturer's instructions. Install the 10" safety cables on the MAIN RECEIVER cross bar with quick links provided (Fig.RR). Attach the other end to the TOW VEHICLES 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			METRIC BOLTS			METRIC BOLTS		
Thread Size	Grade	Torque	Thread Size	Grade	Plated/Unplated	Thread Size	Grade	Plated/Unplated
5/16	5	13 ft./lb.	8mm-1.0	8.8	20 ft./lb. 18 ft./lb.	12mm-1.25	8.8	70 ft./lb. 65 ft./lb.
3/8	5	23 ft./lb.	8mm-1.25	8.8	19 ft./lb. 18 ft./lb.	12mm-1.5	8.8	66 ft./lb. 61 ft./lb.
7/16	5	37 ft./lb.	10mm-1.25	8.8	38 ft./lb. 36 ft./lb.	12mm-1.75	8.8	65 ft./lb. 60 ft./lb.
1/2	5	56 ft./lb.	10mm-1.5	8.8	37 ft./lb. 35 ft./lb.	14mm-2.0	8.8	104 ft./lb. 97 ft./lb.
5/8	5	150 ft./lb.						

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