

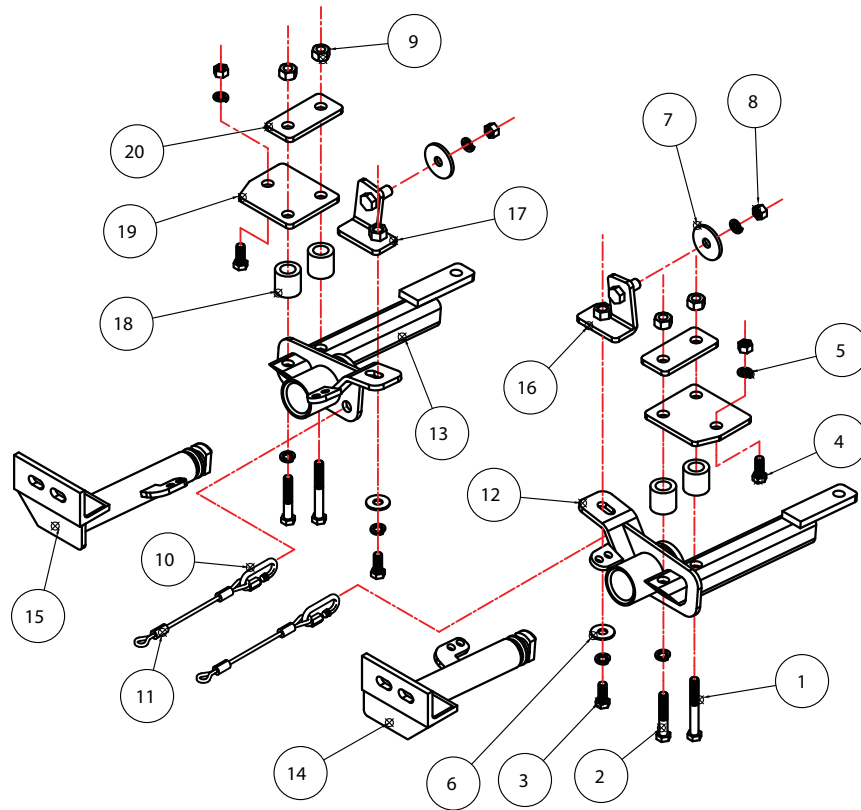


MOUNTING BRACKET KIT INSTALLATION INSTRUCTIONS

KIT# 521423-1

05/18/11
KS

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



Item	Qty.	Description	Part No.
1.....	2.....	1/2" x 4 1/2" BOLT	350106-00
2.....	2.....	1/2" x 3" BOLT	350101-00
3.....	2.....	1/2" x 1 1/4" BOLT	350094-00
4.....	2.....	1/2" x 1 1/2" BOLT	350095-00
5.....	8.....	1/2" LOCK WASHER	350309-00
6.....	2.....	1/2" FLAT WASHER	350308-00
7.....	2.....	1/2" PLATE WASHER.....	A-003086
8.....	4.....	1/2" HEX NUT	350258-00
9.....	4.....	1/2" NYLOCK NUT	350259-00
10.....	2.....	QUICK LINK	200008-00
11.....	2.....	8" SAFETY CABLE.....	650646-08
12.....	1.....	DRIVER SIDE RECEIVER BRACE	C-000419
13.....	1.....	PASSENGER SIDE RECEIVER BRACE	C-000420
14.....	1.....	DRIVER SIDE ARM BRACE	C-000421
15.....	1.....	PASSENGER SIDE ARM BRACE.....	C-000422
16.....	1.....	DRIVER SIDE BUMPER CORE BRACE	C-000208
17.....	1.....	PASSENGER SIDE BUMPER CORE BRACE.....	C-000209
18.....	4.....	1 1/4" O.D. x 1 1/4" ROUND TUBE	A-000964
19.....	2.....	BACKING PLATE - 3 HOLES	A-000965
20.....	2.....	BACKING PLATE - 2 HOLES	A-000966
21.....	8.....	3/16" x 1" PLASTIC PULL RIVET	350431-00



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This is one of our EZ 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 consists of two main receiver braces, two removable front braces and a hardware pack.

The main receiver brace mounts below the bumper core behind the front bumper fascia and through existing openings in the bumper fascia. The front grille and bumper fascia have to be removed to install the receiver braces. Fascia fender rivets will have to be removed and replaced with new rivets included in the hardware kit. The removable front braces install in the receiver braces by inserting and twisting 90 degrees to lock.

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.



Fig.A



Fig.B

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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Notice – 2005-07 Jeep Liberty installation supplement

To remove the fascia on 2005-2007 Jeep Liberty installations, proceed to the supplement on the last two pages of these instructions. The supplement supersedes steps 1 through 5 below.



Fig.C



Fig.D



Fig.E

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 four bolts (10mm head) from the middle of the lower fascia (Fig.C).

2. Go to the top of the vehicle between the headlights and remove four grill fasteners (*20 torx). Pull forward and down to remove the grill (Fig.D, E).



Fig.F



Fig.G



Fig.H

3. Remove four plastic fasteners holding the top of the fascia between the headlights (Fig.F).

4. Drill four rivets in each fender well lip holding the fascia to the fender well lip and remove (Fig.G).

5. Pull out on the fascia lip while simultaneously squeezing the side clips to release, starting with the bottom clip on each side (Fig.H) then lift up to unhook the fascia, pull forward and off (Fig.I).



Fig.I

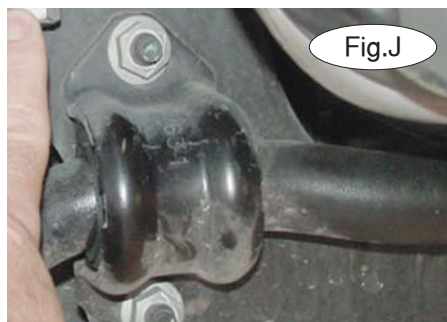


Fig.J



Fig.K

6. Remove four nuts (17mm or 18mm) holding the stabilizer bar to the bottom of the frame (two per side) then remove the stabilizer bar mounts and pull down on the stabilizer bar (Fig.J).

7. Remove the black covers over the frame openings on each side (two 10mm head bolts) (Fig.K).

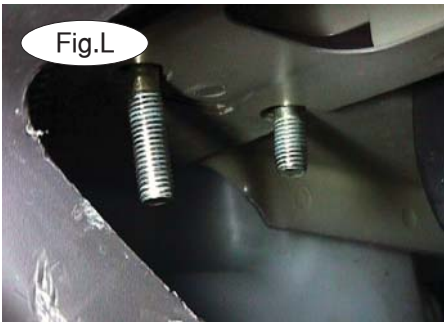


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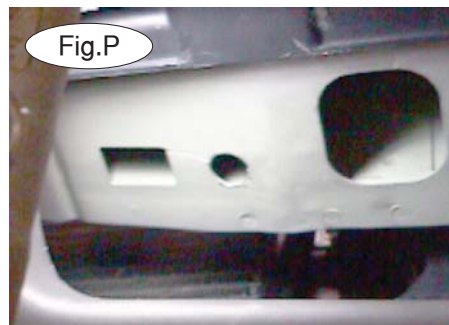
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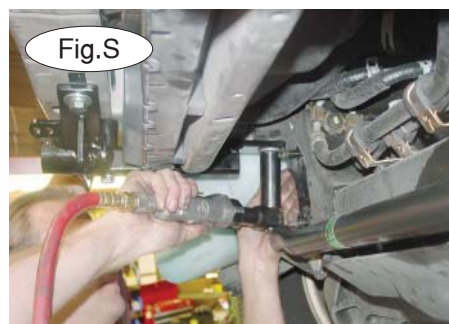
8. If tow hooks are present, remove at this time, (three 15mm nuts per hook) and the mounting u-bolt and spring nut (Fig.L, M, N). Keep them for replacement if the towing system is ever removed from the vehicle.

9. Enlarge the tow hook mounting holes to 17/32" (two holes per side under the frame) (Fig.L).



10. Insert the two hole backing plates in the frame on each side over the tow hook mounting holes (Fig.O).

11. Look under the bumper core and locate the large square holes in the bottom of the bumper core on each side (Fig.P). Put the driver side backing plate weldment through these holes on each side over the existing holes located approximately 1½" inboard from the large access holes. Put the bolts in the braces through existing holes in the back of the bumper core. If they don't line up you may have the drivers side in the passenger side. Try switching them around (Fig.Q). Bolt the braces to the rear of the bumper core into the upper braces with ½" nuts, plate washers and lock washers. The bottom of the braces should be in line with the existing holes in the bottom of the bumper core at this time. *Note:* use Loctite® Red on all bolts used for mounting this bracket.



12. Starting with the driver side, remove a large sub frame bolt (19mm or 21mm head) located above the sway bar mounting area (Fig.R). Take the driver side receiver brace and bolt through the rear-mounting hole with this bolt (Fig.S, Fig.T).

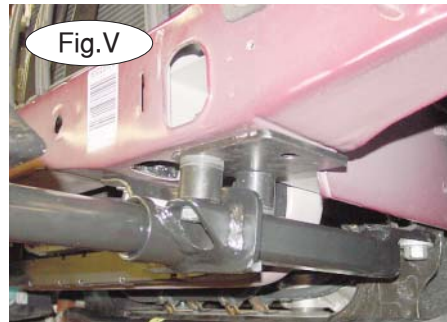


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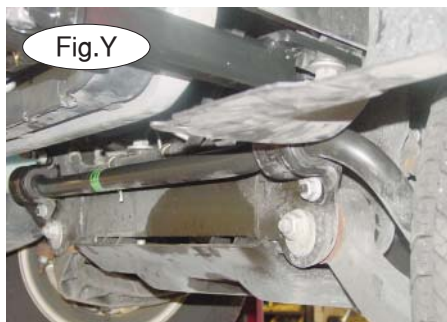
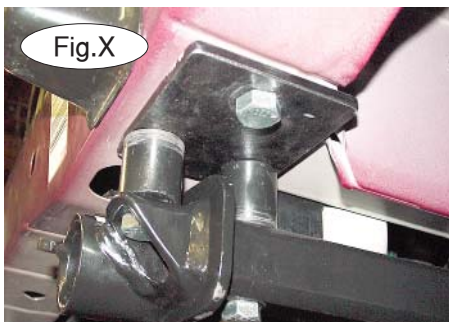
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13. There are two holes located in the front outside of the receiver braces. Using one of the supplied 1/2" x 4" bolts and nylock nuts, bolt through the second hole back in the driver side receiver brace, one of the supplied three-hole lower backing plates, the frame, and one of the supplied two-hole backing plates and 1 1/4" spacers (Fig.U).
14. Bolt through the front mounting hole in the receiver brace, three hole backing plate, frame and two hole backing plate and 1 1/4" spacer with a 1/2" x 3" bolt, and Nylock nut (Fig.V).
15. Bolt through the lower side of the receiver brace into the bottom of the bumper core and top brace installed in step 11, with a 1/2" x 1 1/2" lock washer and flat washer.
16. Torque all mounting bolts to the specifications listed at the bottom of these instructions. Then, using the three hole plates as drill templates, drill two 17/32" holes into the frame (Fig.W).



17. Bolt through these holes with 1/2" x 1 1/2" bolts, lock washers and nuts (Fig.X). *Note:* loosen the water bottle on the passenger side (two 10mm head bolts) to gain access to the rear of the frame, then remount (Fig.X).
18. Reinstall the sway bar, reversing step 6 (Fig.Y). Reinstall the bumper fascia and grille, reversing steps 3 through 6. *Note:* new rivets are supplied in the hardware pack.
19. Insert the removable front braces into the main receiver braces, and twist each one 90 degrees to lock (Fig.Z). Attach the 8" safety cables with the cable connectors (Q-links) to the front of the receiver braces.
20. Attach the ends of the safety cables to the tow vehicle's safety cables and tow bar.
21. Install the tow bar to the mounting bracket according to the manufacturer's instructions.

Note: if the bracket is so equipped, the holes in the alignment tabs which are welded to the arms and main receiver braces are for padlocks only. Under no circumstances should you bolt the alignment tabs together. Bolting the alignment tabs together may result in non-warranty damage to the bracket.

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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Fascia Removal Supplement – 2005-07 Jeep Liberty

This supplement supersedes steps 1 through 5 in the mounting bracket installation instructions.

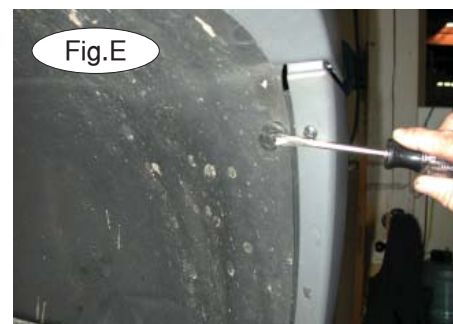


1. Unsnap the six plastic tabs on the top of the grille (Fig.A) and remove the grille. (Some models may have two T25 Torx bolts on the grille. If this is the case, remove them as well.)

2. If the vehicle is equipped with fog lights, use a T30 Torx to remove the fog light mounting bolt (Fig.B).

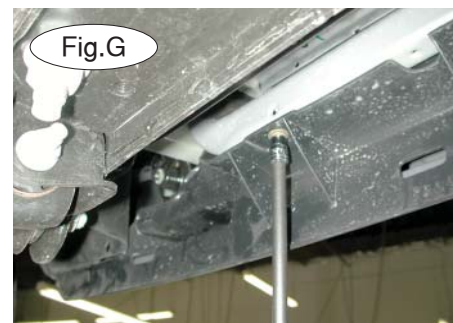
3. Unplug the wiring harness. Lift the plastic and pull the harness through to remove the fog light (Fig.C).

4. Remove the two 10mm bolts on the fascia. There is one on each side (Fig.D).



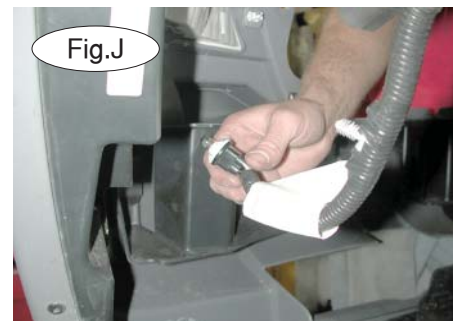
5. On each fender well, remove the two plastic fasteners that connect the fascia to the fender liner (Fig.E).

6. On the underside of the fascia, remove the two 10mm bolts (Fig.F) and the two plastic fasteners (Fig.G).



7. Pull down and away on each side of the front fascia (Fig.H), and remove the marker lights (Fig.I) and the turn signal plugs (Fig.J). Remove the fascia.

Fascia Removal Supplement continues on next page.





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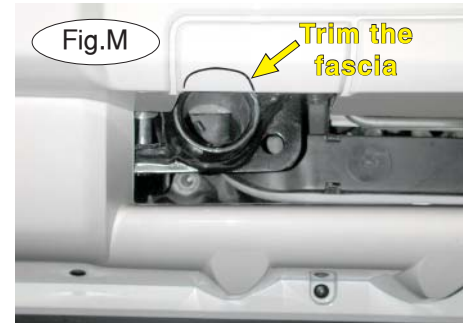
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Fascia Removal Supplement – 2005-07 Jeep Liberty

continued from preceding page

This supplement supersedes steps 1 through 5 in the mounting bracket installation instructions.



8. Due to manufacturing variances, some vehicles may be equipped with two radiator cowlings on the back of the fascia. These will need to be trimmed off in order to allow clearance for the main receiver brace. The two cowlings are shown in Figures K and L.

9. Reinstall the fascia by reversing steps 1 through 7 in this supplement.

10. Some models do not have tow hook openings in the fascia. If this is the case, a small portion of the fascia (on each side) will have to be trimmed to accommodate the removable front bracket arms. Use the black line in Figure M as a reference. Figure N shows the fascia trimmed, and Figure O shows the removable front bracket arm in place.



Proceed to step 6 in the mounting bracket kit installation instructions.