

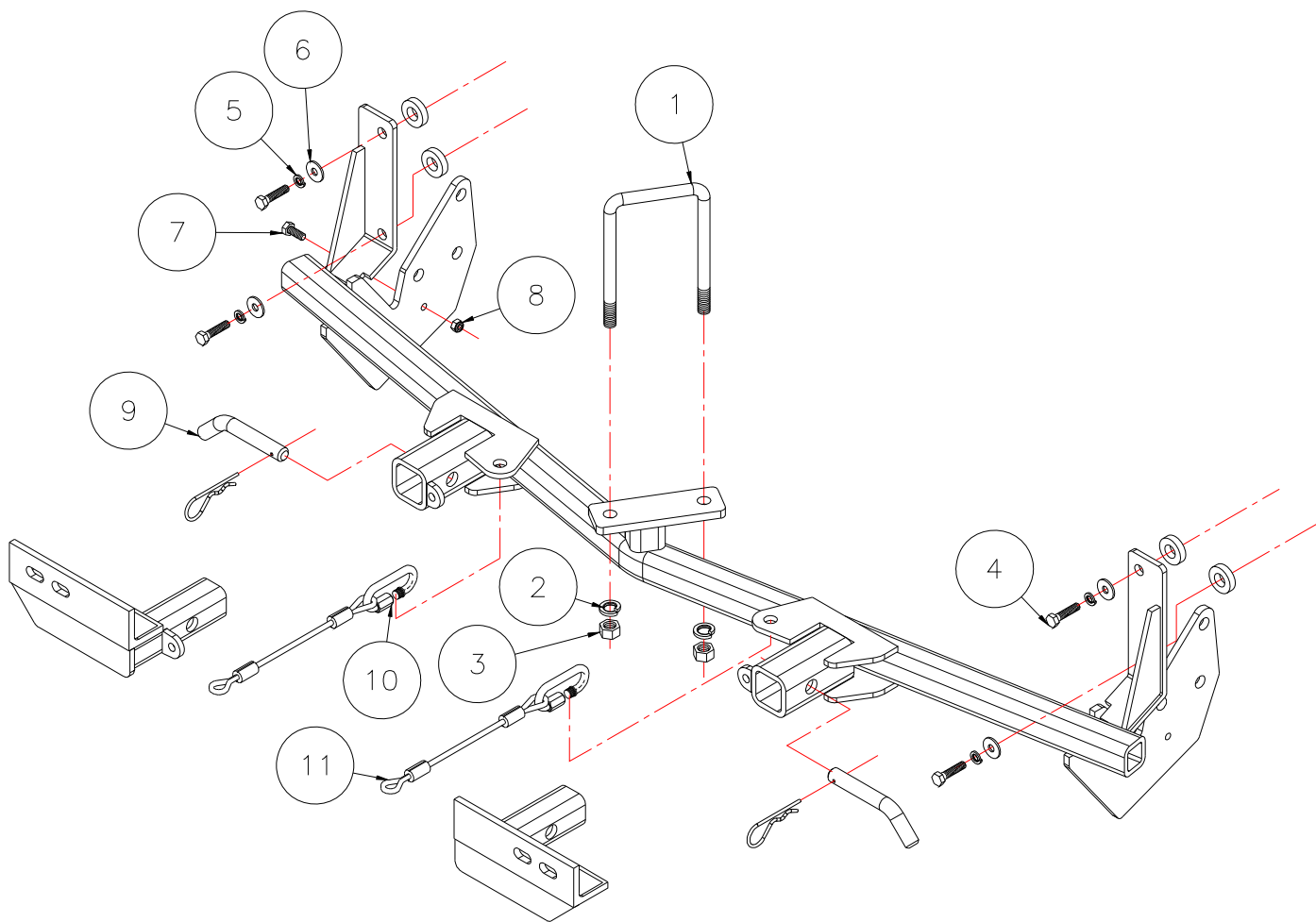


BASEPLATE KIT INSTALLATION INSTRUCTIONS

KIT# 343-1

06/14/04

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



| ITEM | QTY | Length | Width | HARDWARE | PART NO. |
|------|-----|--------|--------|--------------------------|-----------|
| 1 | 1 | 6" | 3 1/2" | 1/2" x 3 1/2" x 6" UBOLT | 357021-00 |
| 2 | 2 | | 1/2" | LOCK WASHER | 350309-00 |
| 3 | 2 | | 1/2" | NUT | 350258-00 |
| 4 | 4 | 35MM | 8MM | 8MM x 1.25MM x 35MM BOLT | 356002-00 |
| 5 | 4 | | 8MM | LOCK WASHER | 355705-00 |
| 6 | 4 | | 8MM | FENDER WASHER | 355702-00 |
| 7 | 1 | 20MM | 6MM | 6MM x 1.0MM x 20MM SCREW | 355750-00 |
| 8 | 1 | 6MM | 6MM | 6MM x 1.0MM NY-LOCK NUT | 355760-00 |
| 9 | 2 | | | DRAW PIN/SPRING PIN | 357035-00 |
| 10 | 2 | | | CABLE CONNECTOR | 200008-00 |
| 11 | 2 | 10" | 10" | CABLE | 500646-10 |



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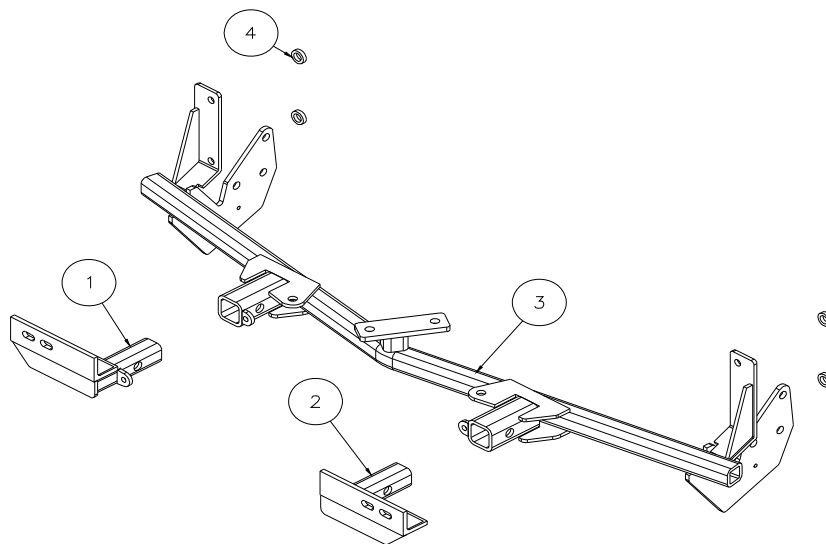
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IMPORTANT: All brackets *must* be assembled with all the bolts left loose for final adjustment & positioning (before tightening) unless otherwise instructed. All bolts *must* be torqued for proper strength. If more than one bolt is used per fastening 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 00018 | RECEIVED BRACE WELDMENT |

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
- Use lock washers on all fasteners

WARNING

Failure to follow the below warnings and the installation instructions may result in voiding your warranty, property damage, the loss of your towed vehicle, personal injury or even death.

- Installation of most baseplates 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.
- Use Loctite® Red on all bolts used for mounting this baseplate.
- 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 mounting points for cracks or other signs of fatigue every 3,000 miles.
- 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.
- Do not weld. This baseplate is designed to be bolted to the vehicle. Welding will void the warranty.
- Do not use this document for custom fabrication, as it may not show all parts or structural components 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 baseplate. Do not install the baseplate if any structural frame damage is found.

- If running changes were made by the vehicle manufacturer after this kit 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 this kit is securely fastened to the vehicle and fitted with the correct hardware to account for these changes.
- 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 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 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.
- Upon final installation, the installer must inspect the baseplate to ensure adequate clearance, particularly around hoses, air conditioner lines, radiators, etc.
- 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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This bracket kit is one of our XL series with removable front braces. The kit consists of a receiver brace which mounts to the side of the front frame tubes, two removable front braces and a hardware packet. Everything but the front arm braces install behind the bumper fascia (Fig. A). The front fascia and grille will have to be removed for the installation.



2. 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 top of the fascia, remove two plastic fasteners on each side (Fig.B) then push in on the center of four plastic fasteners in the grill cover (Fig.C,D).



3. Remove the grill cover and set aside (Fig.F), then remove two more fasteners in the top of grille (Fig.F). Pull forward and up to remove the grille and set aside.

4. Move under the front fascia and remove five plastic fasteners from the front of the lower splash shield and fascia (Fig.G).



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Fig.H



Fig.I



Fig.J

5. Remove two phillip head fasteners from the lower fascia on each side (Fig.H) then pull down to disconnect the marker lights (Fig.I).
6. Pull the splash panel down to access the fender fascia joint and remove two phillip head screws located in the front and back of the joints on each side (Fig.J).



Fig.K



Fig.L

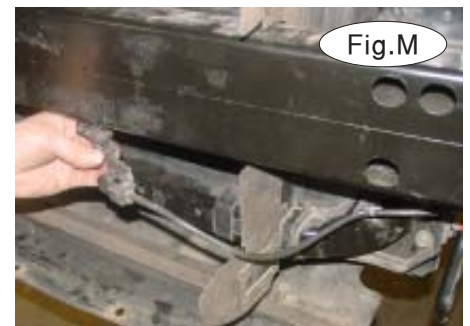


Fig.M

7. Pull the fascia forward on each side to disengage the tabs under the head lights and remove (Fig.K).
8. Remove the energy absorption foam from the front of the bumper core (Fig.L) then loosen the ambient air sensor (Fig.M).



Fig.N



Fig.O



Fig.P

9. Trim the radiator air deflectors to clear the main receiver brace (Fig.N).
10. Remove the tie down plates on each side (three 14mm head bolts) (Fig.O). Discard the plates and keep the bolts for reinstallation. On the passenger side, remove two lower washer reservoir mounting bolts (10mm head) to access the tie down plates and loosen the top bolt (Fig.P,Q).



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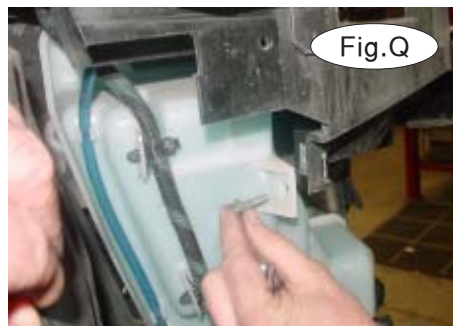


Fig.Q

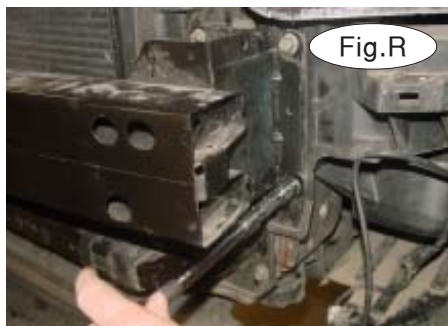


Fig.R



Fig.S

11. Remove the two outside bumper core bolts (12mm head) on each side (Fig.R), then hold the receiver brace in position under the bumper core (Fig.S) and secure in the middle with the mounting u-bolt and two 1/2" bolts and lock washers (Fig.T).



Fig.T



Fig.U



Fig.V

12. Reinstall the bolts removed in step 10, bolting through the receiver brace on both sides (Fig.U). Don't tighten at this time.

13. Put small 1/4" spacers behind the brace as shown in (Fig.V) before bolting through the front of the receiver brace with 8mm x 1.25 x 35mm bolts, lock washers and fender washers on each side. Tighten these bolts then tighten all the bolts including the center U-bolt to the torque specifications on the last page.



Fig.W

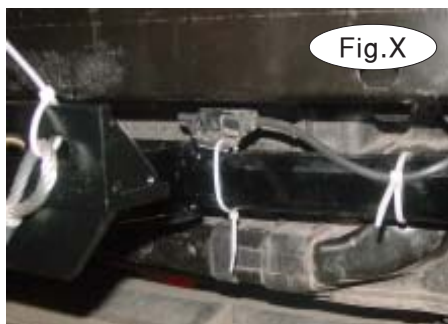


Fig.X

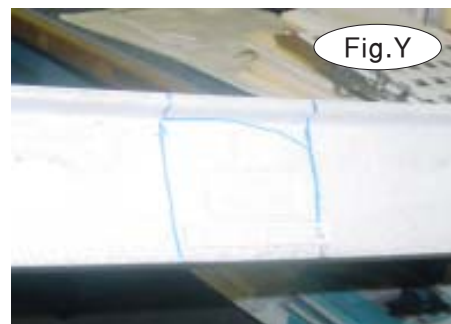


Fig.Y

14. Replace the bottom bolt on the passenger side water reservoir with a 8mm x 1.0 x 20mm bolt and lock nut through the side of the receiver brace side plate (Fig.W).

15. Remount the ambient air sensor with the included zip ties on the receiver brace cross bar as shown in (Fig.X).

16. Trim the energy absorption foam to fit (Fig.Y), then reinstall.



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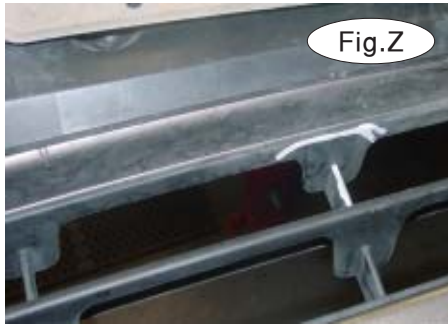


Fig.Z



Fig.AA

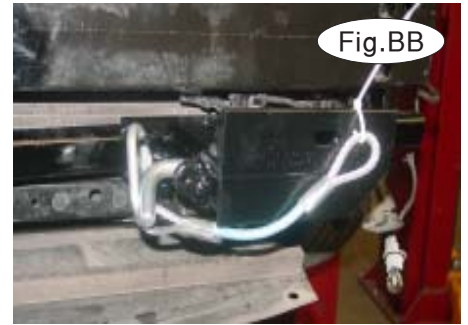


Fig.BB

17. Trim the fascia to fit in the areas shown (Fig.Z,AA) then the fascia reversing steps 2 through 7.
16. Install the front braces in the receiver tubes a pin in place with 5/8" draw pins and 3/16" spring pins (Fig.BB).
20. Attach the 10" safety cables to the RECEIVER BRACE with the included cable connectors (Fig.42). Connect the other ends to the TOW VEHICLES safety cables and tow bar.
21. Install the tow bar according to the manufacture's instructions and torque all bolts to the torque specifications below.

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. | | | | | | |

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.