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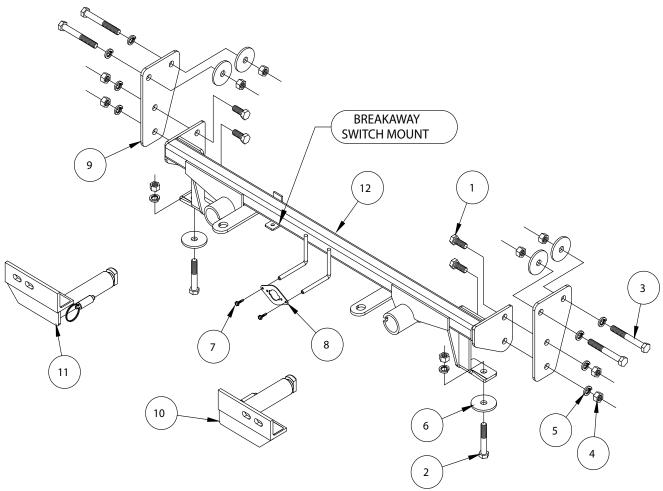
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09/12/16

ROADMASTER, Inc. 6110 NE 127th Ave. Vancouver, WA 98682 360-896-0407 fax 360-735-9300 www.roadmasterinc.com



ITEM QTY		PART #
1 4	1/2" x 1 1/4" BOLT	350094-00
22	1/2" x 3" BOLT	350101-00
3 4	1/2" x 4" BOLT	350104-00
4 10	1/2" NUT	350258-00
5 10	1/2" LOCK WASHER	350309-00
	1/2" PLATE WASHER	
7 2	#10 x 3/4" SELF DRILLING SCREW	350247-35
8 1	WIRE PLUG PLATE	A-003801
92	SIDE MOUNTING PLATE	A-005248
10 1	DRIVER SIDE ARM	C-003023
11 1	PASSENGER SIDE ARM	C-003024
12 1	MAIN RECEIVER BRACE	C-003025



KIT# 523185-4

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his is one of our EZ4 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 a main receiver brace, two rear braces, two removable front braces and a hardware pack.

The main receiver brace mounts to the end of the frame rails. The rear braces are attached to the frame, and the main receiver brace is attached to the rear braces and the end of the subframe. The removable front braces install in the main receiver brace.

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 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 and lock washers on all fasteners.

WARNING

Failure to heed these warnings or follow the installation instructions may result in a voided warranty, loss of towed vehicle, personal injury or death.

- Do not weld or modify this baseplate or its components. Welding or modification will void the warranty.
- Do not use this document as a basis to design/fabricate a baseplate, as it may not show all parts or structural components.
- We strongly recommend professional installation.
- 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.
- The installer must use all bolts and parts supplied. If running changes were made by the vehicle manufacturer after this kit was designed, some bolts or other fasteners may no longer be the correct size. It is the installer's responsibility to verify this kit is securely fastened to the vehicle.
- Use Loctite® Red on all bolts used to secure this baseplate. Torque all bolts to the specifications found at the end of these instructions. Do not over-torque the bolts or failure may occur.
- The installer must inspect the baseplate to ensure adequate clearance, particularly around hoses, air conditioner lines, radiators, etc. or non-warranty failure may result.
- 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 your 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 or vehicles.
- 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. See cable instructions for proper routing. Failure to do so will result in non-warranty damage and/or 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 nonwarranty damage or injury.
- Receiver extensions and out-of-level towing situations of 3 inches or more. This can cause the system to swing much higher and lower, causing excessive strain on the tow bar, baseplate and frame. That can cause the towing system to fail, causing property damage, personal injury or even death. If you must use a receiver extension or drop hitch to tow, it will reduce your receiver's weight capacity by 1/3 to avoid damaging your system. Never use more than one extension and/or drop hitch, as this will void your warranty.
- Every 3,000 miles, the owner must inspect all mounting points for cracks or fatigue, and check the fasteners for proper torque, according to the bolt torque requirements chart on the last page of these instructions.
- The owner must follow the vehicle manufacturer's instructions to prepare the vehicle for towing. Failure to do so may cause severe damage to the vehicle.
- This baseplate is only warranteed for the original installation.
 Installing a used baseplate 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 two 10mm (head) bolts and two plastic fasteners attaching the fascia to the core support (Fig.C).





- 2. On each side, remove two plastic fasteners attaching the fender liner to the fascia (Fig.D).
- 3. Remove three 10mm (head) bolts attaching the splash shield to the subframe (Fig.E).
- 4. On each side, remove two 7mm (head) screws attaching the fascia to the fender liner (Fig.F).
- 5. On each side, pull back the fender liner and remove one 7mm (head) screw attaching the fender to the fascia (Fig.G).





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- 6. Reach inside the fascia and unplug the fog lights, if the vehicle is so equipped (Fig.H).
- 7. On each side, pull up and out on the fascia, releasing the locking strip and setting it aside for now (Fig.I).





- 8. On each side, remove a fastener attaching the air dam to the bumper core. Them, trim off the top half of the air dam as shown in Figure J.
- 9. On the passenger side only, release the cooling line from the plastic clip indicated in Figure K and push it out of the way for now to allow clearance for drilling in the next step.
- 10. On each side, enlarge the two pre-existing holes in the side of the frame rail using a ½" drill bit. You will need to drill through the outer layer of the frame and the pre-existing holes on the inside of the frame rail (Fig.L). *Note:* use caution and an appropriately-sized drill bit to avoid drilling into engine components.





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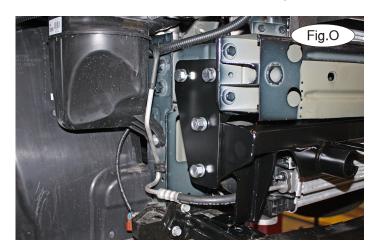
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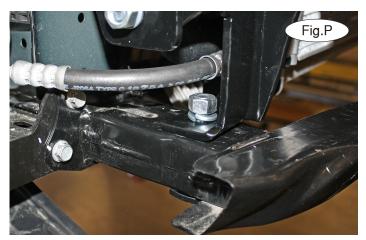
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11. On each side, place the rear brace over the side of the frame rail, aligning it with the holes you enlarged in the previous step. Then, bolt through the brace and the frame rail using two ½" x 4" bolts and ½" lock washers (Fig.M). Finish on the inside of the frame rail using the two supplied ½" plate washers and ½" nuts. *Note:* ensure proper alignment, as the bolts will receive Loctite® Red and will be torqued at the end of these instructions.





- 12. On each side, use a $\frac{1}{2}$ " drill to enlarge the pre-existing holes in the subframe (Fig.N). Then, place the main receiver brace under the bumper core and using two of the supplied $\frac{1}{2}$ " x $1\frac{1}{4}$ " bolts, lock washers and nuts, bolt through the main receiver brace and rear brace (Fig.O).
- 13. On each side, align the lower mount of the main receiver brace over the holes you drilled in the previous step. Then, bolt up through the subframe and lower mount using the supplied $\frac{1}{2}$ " plate washer over a $\frac{1}{2}$ " x 3" bolt and finish with a $\frac{1}{2}$ " lock washer and nut (Fig.P).
- 14. Torque the bolts to the bolt torque requirements found at the end of this document. *Note:* use Loctite® Red on all nuts and bolts.
- 15. Trim the fascia using the pattern in Figure Q as a reference for trimming.
- 16. Reassemble the fascia by reversing steps 1 through 7.





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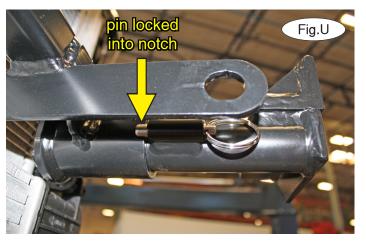




17. Note: the following four images are for illustration purposes only, as your specific application may be slightly different.

The spring-loaded pin on the removable arm snaps into a notch on the receiver, locking the removable arm into its final towing position. Before inserting each arm into the receiver, verify that the spring is working by ensuring that the spring-loaded pin moves easily back and forth within the barrel when pulled and that it can be pulled flush with the face of the barrel (Fig.R and Fig.S).





18. On each side, insert the removable front bracket arm into the front receiver 90 degrees from its final towing position, depressing the spring-loaded pin against the receiver (Fig.T). Now, twist back 90 degrees until the spring-loaded pin snaps into place in the notch on the receiver, locking the arm into place in its final towing position (Fig.U).

Please note: it is the owner's responsibility to ensure the locking of the pins before towing. Otherwise, failure of the towing system will result.

19. Install the tow bar to the mounting bracket according to the manufacturer's instructions.



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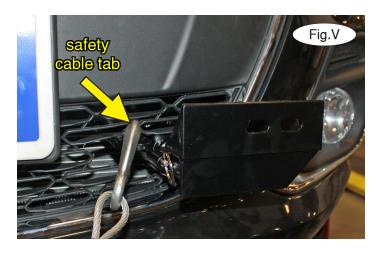
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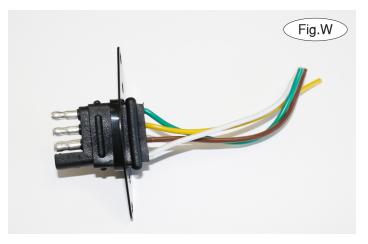
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IMPORTANT!

Safety cables are required by law. When towing, connect safety cables to the safety cable tabs illustrated in Figure V. Make certain there is adequate slack in the cables to allow a full turning radius; otherwise, damage will result. If necessary, longer cables or cable extensions are available.

Three options for attaching the wiring plug to the main receiver brace

For six-wire plugs: use the two supplied ¾" self-tapping screws to attach the electrical plug directly to the rods on the front of the main receiver brace.

For four-wire round plugs: attach to the plug mounting plate and then use the two supplied ¾" self-tapping screws to attach the mounting plate to the rods on the front of the main receiver brace.

For four-wire flat plugs: place the plug through the mounting plug plate, and then secure it using the supplied zip tie on the front of the plug (Fig.W). Use the two supplied ¾" self-tapping screws to attach the mounting plate to the rods on the front of the main receiver brace.

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.						