

BASEPLATE KIT INSTALLATION INSTRUCTIONS

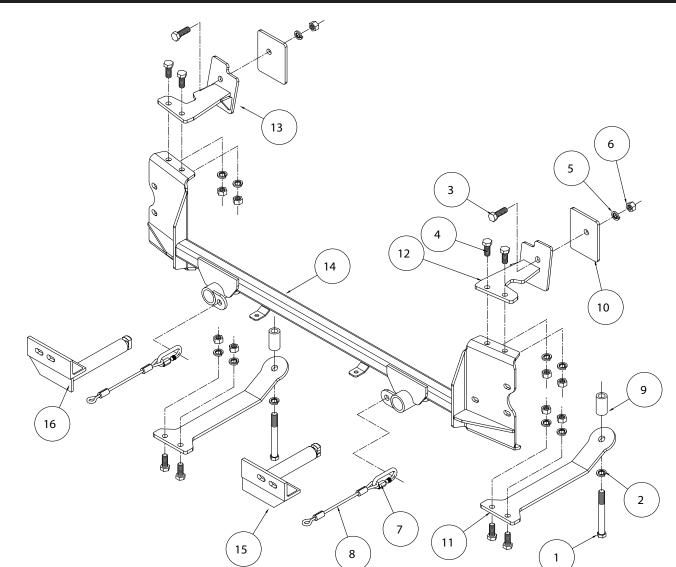
KIT# 523163-1A 09/03/20 KS

ROADMASTER, Inc.

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ITEM QTY NAME	MATERIAL
12	
2	
3	
4	
5	350309-00
6	
7	
8	650646-08
9	
102	A002964
112LOWER BRACE	B002454
121DRIVER SIDE BRACE	C001879
131PASSENGER SIDE BRACE	C001880
141MAIN RECEIVER	C001933
151DRIVER SIDE ARM	C001934
161PASSENGER SIDE ARM	
174ZIP TIE	



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his is one of our crossbar-style baseplates, which allows the visible front portion to be easily removed from the front of the vehicle (Fig.A and Fig.B). The kit consists of a main receiver brace, two rear support braces, two upper support braces, two removable front braces and a hardware pack.

The main receiver brace mounts to the bumper core and frame rails. The rear support braces are attached to the main receiver brace and frame rails. The upper support braces are attached to the main receiver brace and the frame. 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.

\Lambda 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 four plastic fasteners and four T20 Torx bolts attaching the top of the fascia to the core support (Fig.C).

2. On each side, remove one T20 Torx bolt and three plastic fasteners attaching the edge of the fender liner to the fascia (Fig.D).



3. On each side, remove two 7mm (head) bolts attaching the bottom of the fascia to the fender liners (Fig.E).

4. Disconnect the fog lights, if the vehicle is so equipped. Pull forward to remove the fascia (Fig.F).

5. Remove two 10mm screws attaching the power steering cooler to the bumper core (Fig.G).







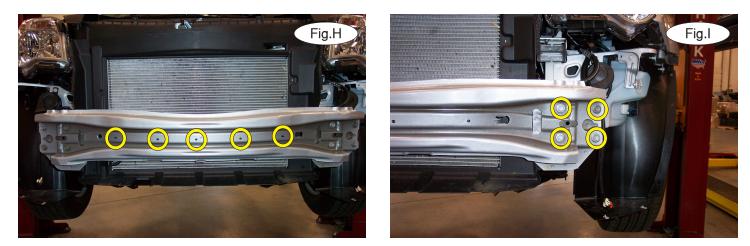
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6. Unsnap five plastic clips to remove the wiring harness from the back of the bumper core (Fig.H).

7. On each side, remove four 13mm (head) bolts attaching the bumper core to the frame rails (Fig.I). The bumper core will not be replaced. Retain the bumper core in case the baseplate is ever removed. Note: due to manufacturing variances, the upper inside hole may not be present.

Now, unsnap one plastic clip on each side attaching the wiring harness to the end of the frame rail and one plastic fastener attaching the ambient temperature sensor to the core support.



8. Place thread lock on six of the eight bolts you removed in the previous step and use them to attach the main receiver brace to the ends of the frame rails (Fig.J). Note: due to manufacturing variances, one of the mounting holes may be where the yellow arrow is instead. Tighten the bolts to the bolt torgue requirements found at the end of these instructions.

9. Working on the driver's side, remove the 18mm subframe bolt. Note: do not remove both subframe bolts without supporting the frame (Fig.K).

10. Using one of the supplied 14mm x 2.0 x 160mm bolts, bolt through the lower rear brace and a 1" x 1 7/8" pipe spacer and into the subframe (Fig.L). Note: use Loctite® Red on all bolts used for mounting this baseplate.





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.



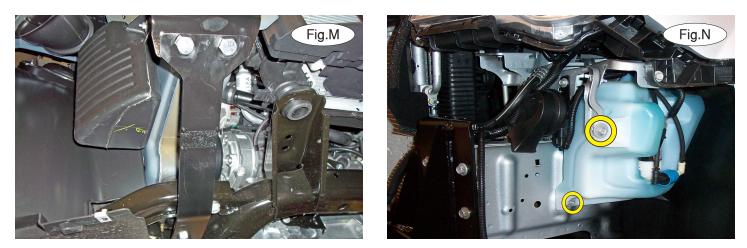
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11. Using two of the supplied 1/2" x 11/4" bolts, lock washers and nuts, bolt the lower brace to the main receiver brace (Fig.M). Tighten the bolts to the bolt torque requirements found at the end of this document.

12. Repeat steps 9 through 11 for the passenger side of the vehicle.

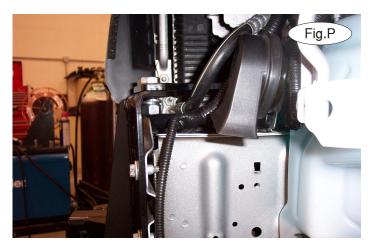


13. Working on the driver's side, loosen the 10mm bolt and 10mm nut attaching the washer bottle to the frame rail (Fig.N).

14. Position the upper rear brace over the top of the main receiver brace (Fig.O).

15. Using two of the supplied 1/2" x 11/4" bolts, lock washers and nuts, bolt the upper rear brace to the main receiver brace (Fig.P).

16. Place one of the $3\frac{1}{2}$ " x $4\frac{1}{2}$ " backing plates through the opening in the side of the frame behind the upper rear brace (Fig.Q).







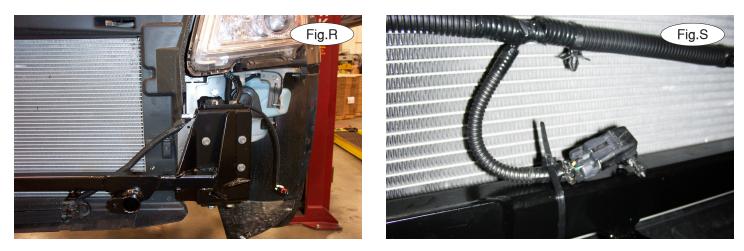
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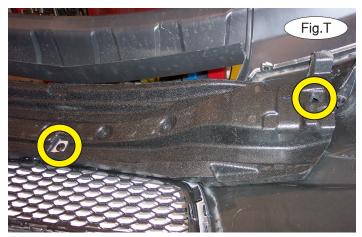
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17. Bolt the upper brace into place using one of the supplied ½" x 1½" bolts, lock washers and nuts (Fig.R).

18. Repeat steps 13 through 17 for the passenger side of the vehicle. Torque the bolts to the bolt torque requirements found at the end of this document.

19. Using two of the supplied zip ties, remount the ambient temperature sensor to the cross member of the main receiver brace (Fig.S).



20. Remove the foam shock absorption pad from the back of the fascia by removing two plastic clips and one screw. Figure T only shows one clip and the screw. *Note:* due to manufacturing variances, some vehicles may have four clips.

21. Remove the two slip nuts located on the bottom of the bumper core (Fig.U).

22. Place the two slip nuts on the mounting points of the main receiver brace and bolt the power steering cooler to the main receiver brace using the screws you removed in step 5.

Now, using four of the supplied zip ties, attach the wiring harness to the main receiver brace (Fig.V).



Fig.U





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23. Reassemble the fascia by reversing steps 1 through 4. 24. Insert the removable front braces into the main receiver brace and twist 90 degrees to lock them in place. Note: due to manufacturing variances, it is expected that the passenger side rear cam will contact the ambient temperature sensor slightly. Relocate the ambient temperature sensor so that it doesn't contact the cam.

25. Attach the 8" safety cables with the cable connectors (Q-Links) to the front of the receiver braces (Fig.W).

26. Attach the ends of the safety cables to the tow vehicle's safety cables.

27. Install the tow bar to the baseplate according to the manufacturer's instructions.



Note: if the baseplate 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 baseplate.

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
5/16-18	5	13 ft./lb.
3/8-16	5	23 ft./lb.
7/16-14	5	37 ft./lb.
1/2-13	5	57 ft./lb.
5/8-11	5	112 ft./lb.

METRIC BOLTS			
Thread Size	Grade	Torque	
6mm-1.0	8.8	6 ft./lb.	
8mm-1.0	8.8	18 ft./lb.	
8mm-1.25	8.8	16 ft./lb.	
10mm-1.25 .	8.8	36 ft./lb.	
10mm-1.5	8.8	31 ft./lb.	

METRIC BOLTS

Thread Size	Grade	Torque
12mm-1.25 .	8.8	64 ft./lb.
12mm-1.5	8.8	60 ft./lb.
12mm-1.75 .	8.8	55 ft./lb.
14mm-2.0	8.8	88 ft./lb.

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