



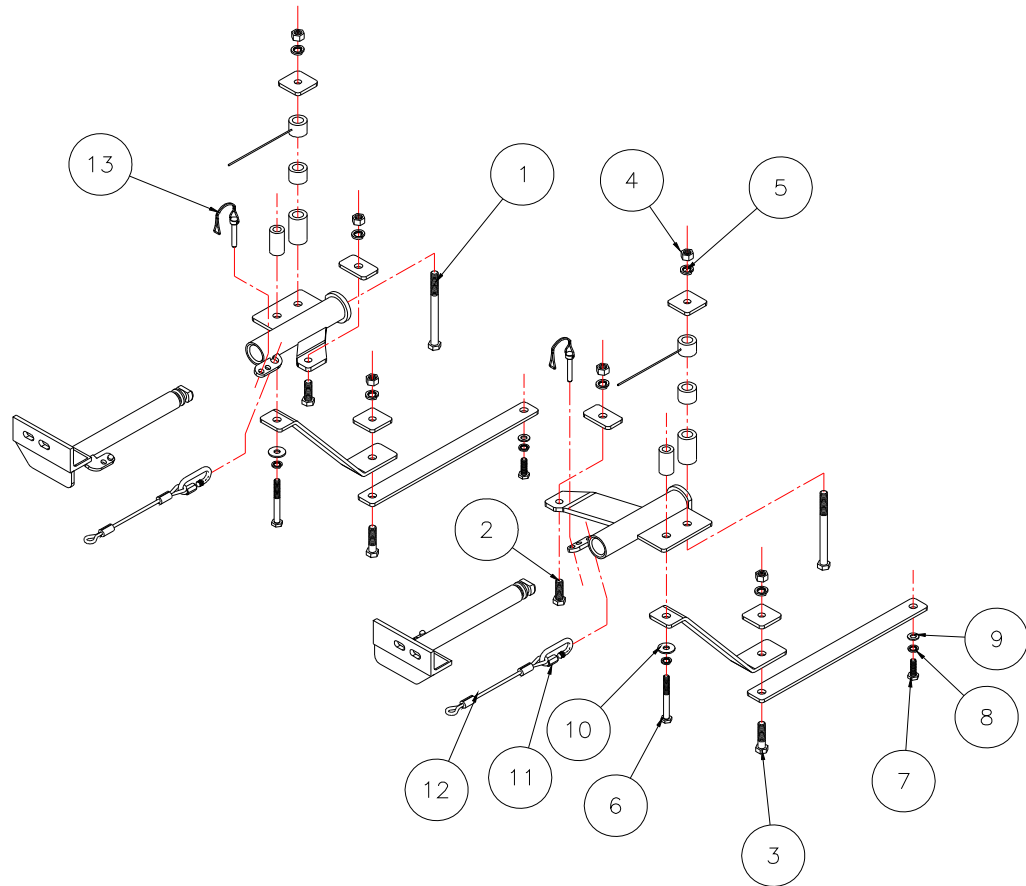
BASEPLATE KIT INSTALLATION INSTRUCTIONS

KIT# 521548-1

04/04/08

KS

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	2	6"	1/2"	1/2" x 6" BOLT	350109-00
2	2	1 1/2"	1/2"	1/2" x 1 1/2" BOLT	350095-00
3	2	2"	1/2"	1/2" x 2" BOLT	350097-00
4	6		1/2"	NUT	350258-00
5	6		1/2"	LOCK WASHER	350309-00
6	2	90mm	10mm	10mm x 1.25 x 90mm BOLT	356211-00
7	2	30mm	10mm	10mm x 1.25 x 30mm BOLT	356201-00
8	4		10mm	LOCK WASHER	355715-00
9	2		10mm	FLAT WASHER	355710-00
10	2		10mm	FENDER WASHER	355716-00
11	2			CONNECTOR	200008-00
12	2	8"		SAFETY CABLES	500646-08
13	2			SAFETY PIN	356997-00



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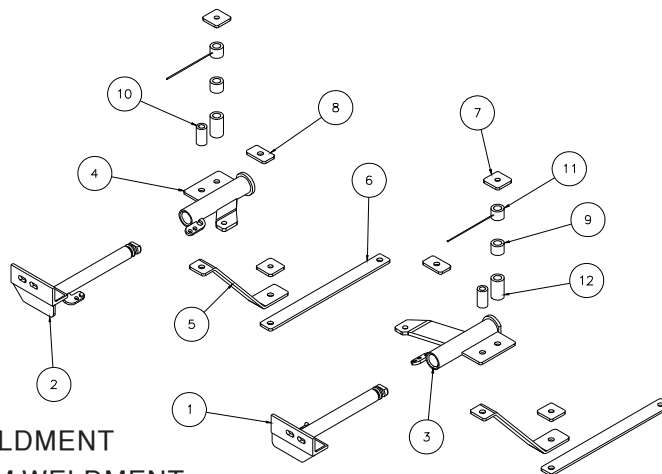
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IMPORTANT: All brackets **must** be assembled with all the bolts left loose for final adjustment & positioning (before tightening) unless otherwise instructed. All bolts **must** be torqued for proper strength. If more than one bolt is used per fastening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

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



Item	Qty	Name	Assembly
1	1	C-000569	DRIVER SIDE ARM WELDMENT
2	1	C-000570	PASSENGER SIDE ARM WELDMENT
3	1	C-000571	DRIVER SIDE RECEIVER BRACE WELDMENT
4	1	C-000572	PASSENGER SIDE RECEIVER BRACE WELDMENT
5	2	B-000406	LOWER CORE SUPPORT BRACE
6	2	A-000989	LOWER REAR MOUNTING BRACE
7	4	A-001066	1/4" x 2" x 2" BACKING PLATE

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 non-warranty 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 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 is one of our EZ lock bracket series, which allows the visible front portion of the brackets to be easily removed from the front of the car by rotating the front braces (Fig.A). The bracket kit consists of two main receiver braces, two tubular front braces and a hardware pack. The rear receiver braces mount to the bottom frame and the bumper core.

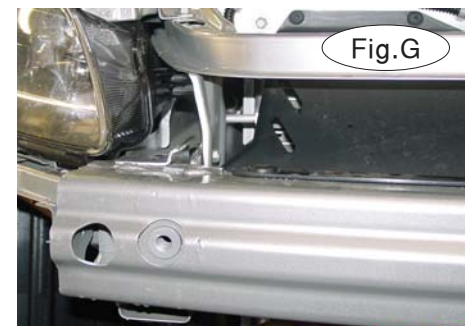


Before starting the installation, lay out the kit components as it is illustrated. This will give you a visual idea of how the components work and also confirm that everything is present and accounted for.

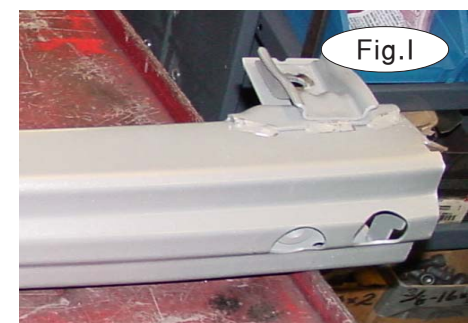
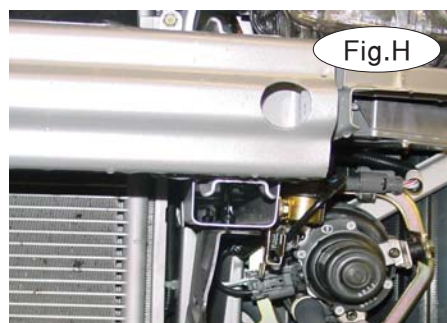


1. **Important:** please use all supplied bolts and parts and read all instructions carefully before beginning this installation. The majority of questions you may have can be answered within the text, and proper installation will ensure safe and secure travel. Now, begin the installation. Begin by removing nine 10mm (head) lower fasteners from the fascia (Fig.B).

2. Remove the front fascia, starting with five top plastic fasteners and trim (Fig.C), then two 10mm (head) screws in the side fender fascia joints (Fig.D) and two 9mm (head) screws on the bottom of the fender fascia joint (Fig.E). Pull forward to remove it (Fig.F).



3. Remove the steel bumper core (four 13mm head mounting bolts) and set it aside (Fig.G,H,I).





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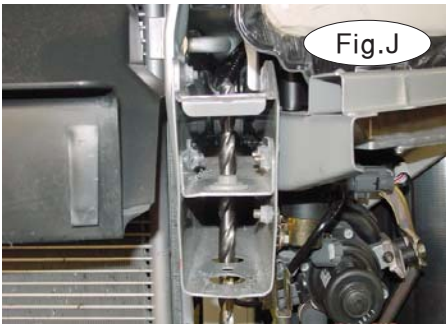


Fig.J

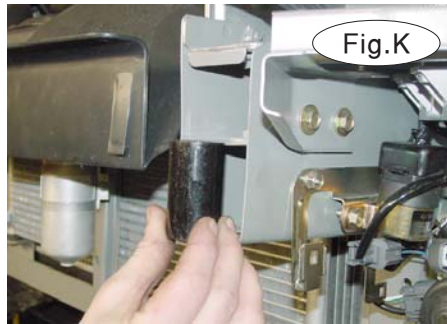


Fig.K



Fig.L

4. Using the rear existing holes as drill guides, drill through the top of the frame on each side with a 11/32" drill bit (Fig.J).

5. Once the holes are drilled on each side, put 2 1/8" spacers in the lower frame section (Fig.K) then two 1" spacers in the top of the frame (Fig.L) and a 2" square backing plate on top of the frame over the drilled holes (Fig.M). *Note:* a small handle has been added to two of the 1" spacers to help facilitate the spacer installation.

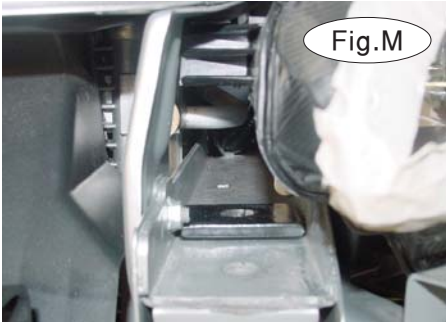


Fig.M

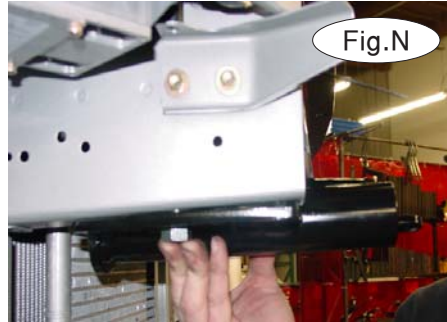


Fig.N

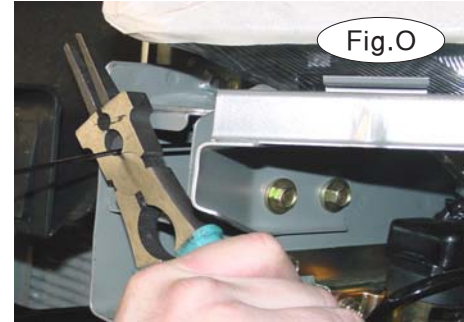


Fig.O

6. Hold a receiver brace in position as shown (Fig.N) and bolt through the rear mounting hole, frame, spacers and backing plate with a 1/2" x 6" bolt, lock washer and nut then do the same thing to the remaining side.

7. Trim or bend your wire handle on the spacer in preparation for mounting the bumper core (Fig.O).

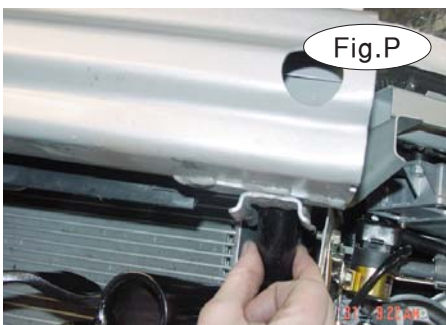


Fig.P

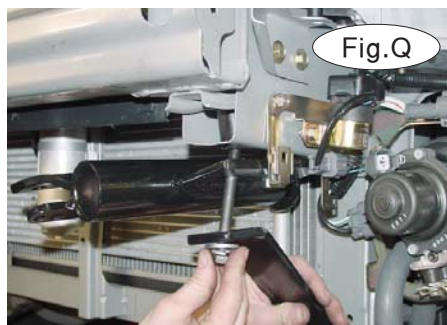


Fig.Q



Fig.R

8. Mount the bumper core with the original top bolts (Fig.P).

9. Insert 1 1/2" spacers in the lower frame below the bumper core mounting holes on both sides (Fig.P,Q).

10. Find the lower front braces and bolt through the braces and the spacer into the frame with 10mm x 1.25 x 90mm bolts, lock washers, and fender washers on each side (Fig.Q).

11. Unbolt the rear suspension struts and sandwich the lower rear braces between the frame and struts then bolt with 10mm x 1.25 x 30mm bolts (Fig.R).



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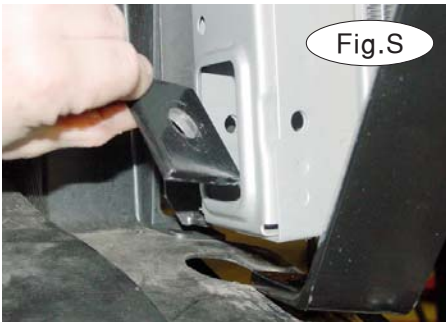


Fig.S



Fig.T

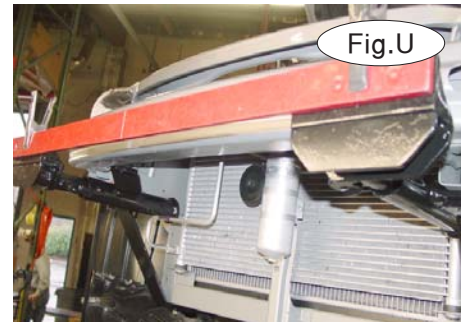


Fig.U

12. Insert 2" sq. backing plates into the bottom frame on each side (Fig.S).

13. Bolt through the front of the lower rear braces, the lower front braces, the lower frame and the backing plates with $\frac{1}{2}$ " x 2" bolts lock washers and nuts (Fig.T).

14. Insert the front braces into the receiver braces, twist up 90 degrees to lock. Then, check the front alignment. Torque all mounting bolts to the torque specifications found at the end of this document, starting with the rear bolts first (Fig.U). *Note:* on the driver's side, you may have to temporarily remove a vacuum pump to access the rear bolt for tightening (two 10mm head bolts, two 12mm head bolts) (Fig.V). Once these bolts are tight, reinstall the pump.

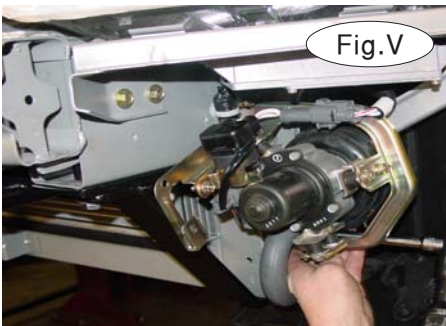


Fig.V

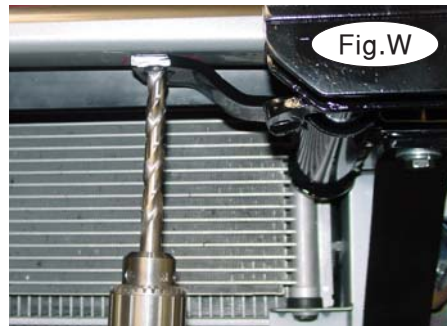


Fig.W



Fig.X

15. Now, drill two $\frac{17}{32}$ " holes in the bottom of the bumper core using the main receiver braces as hole templates (Fig.W).

16. Bolt through the receiver braces and bumper core with two $\frac{1}{2}$ " x 2" bolts and $\frac{1}{4}$ " x $1\frac{1}{2}$ " x $2\frac{1}{2}$ " backing plates, lock washers and nuts. Install the nuts and backing plates through the back of the bumper then torque to the torque specifications found at the end of this document (Fig.X).

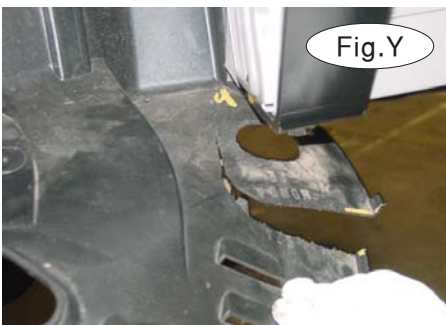


Fig.Y

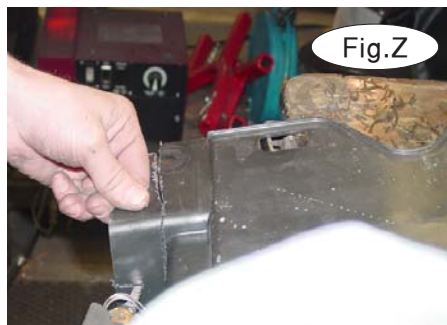


Fig.Z

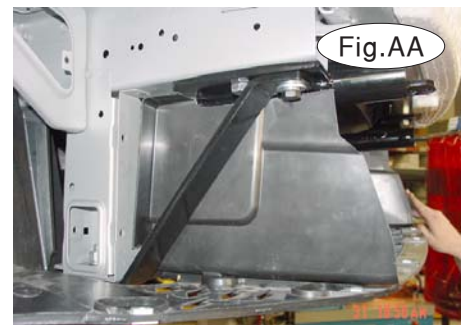


Fig.AA

17. Trim the side (Fig.Y) and center splash panel (Fig.Z), as well as the air deflector (Fig.AA) to fit.



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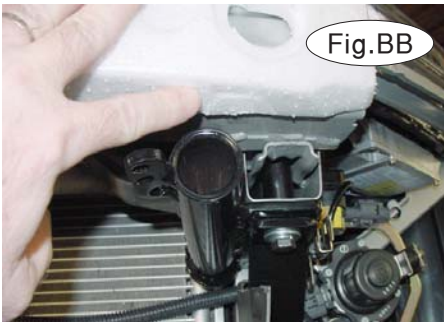


Fig.BB

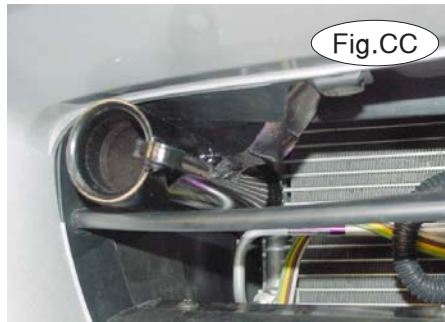


Fig.CC

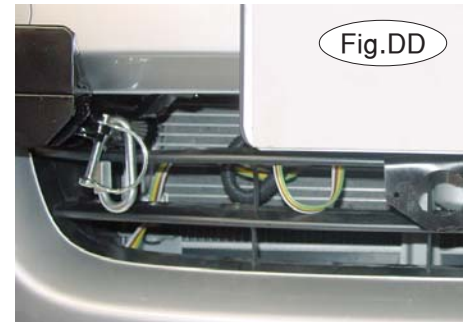


Fig.DD

18. Reinstall the bumper foam and trim to fit over the receiver tubes (Fig.BB).
19. Reinstall fascia trimming to fit where necessary (Fig.CC).
20. Install the front braces by inserting with front braces vertical to the ground, push in and twist up 90 degrees to lock in place (Fig.DD).
21. Mount the tow bar according to the tow bar manufacturer's instructions. Install the 8" safety cables to the side of the main receiver portion of the bracket with quick links provided. Attach the other end to the tow vehicle's 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

Thread Size	Grade	Torque
5/16	5	13 ft./lb.
3/8	5	23 ft./lb.
7/16	5	37 ft./lb.
1/2	5	56 ft./lb.
5/8	5	150 ft./lb.

METRIC BOLTS

Thread Size	Grade	Plated / Unplated
8mm-1.0	8.8	20 ft./lb. 18 ft./lb.
8mm-1.25	8.8	19 ft./lb. 18 ft./lb.
10mm-1.25	8.8	38 ft./lb. 36 ft./lb.
10mm-1.5	8.8	37 ft./lb. 35 ft./lb.

METRIC BOLTS

Thread Size	Grade	Plated / Unplated
12mm-1.25	8.8	70 ft./lb. 65 ft./lb.
12mm-1.5	8.8	66 ft./lb. 61 ft./lb.
12mm-1.75	8.8	65 ft./lb. 60 ft./lb.
14mm-2.0	8.8	104 ft./lb. 97 ft./lb.

All illustrations and specifications contained herein are based on the latest information available at the time of publication approval.
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