

## PARTS INCLUDED

- 1PC** Application-Specific Mounting Bracket
- 1PC** Black, Anodized 6061 Aluminum Catch Can
- 2PC** High-Torque Worm Gear Clamps
- 2PC** Direct-Fit Oil Resistant Hoses
- 2PC** CNC-Machined Aluminum Barbed Fittings
- 1PC** Bronze Filter
- 1PC** Air Diverter
- 1PC** Internal Baffle & Rod
- 1PC** 3/8" NPT Plug
- 1PC** Large O-Ring
- 4PC** Zip Ties
- 2PC** Zip Tie Tree Clips
- Mounting Hardware

## TOOLS NEEDED

- 7mm Socket
- 8mm Socket
- 17mm Wrench
- 4mm Allen Key
- 2.5mm Allen Key
- 1/4" Drive Ratchet
- 1/4" Extension
- Philips Head Screwdriver
- Pick Tool

**INSTALL TIME** 1.5 Hours

**INSTALL DIFFICULTY** 

## DISCLAIMER

- Allow vehicle to cool completely prior to attempting installation.
- Mishimoto is not responsible for any vehicle damage or personal injury due to installation errors, misuse, or removal of Mishimoto products.
- Mishimoto suggests that a trained professional install all Mishimoto products.

## INSTALL PROCEDURE

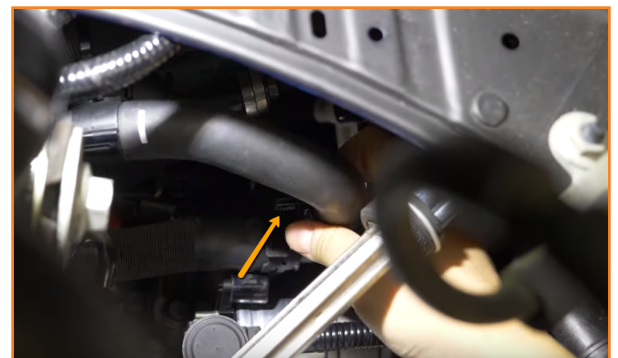
1. Remove the clips on the engine splash guard. (8x pop-clips)



2. Pull back the splash guard.
3. Disconnect the electrical harness under the coolant hose.



4. Pull the coolant hose from the clip that holds it in place. (1x pop-clip)

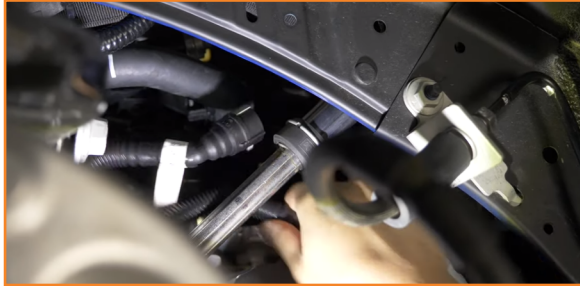


5. Slide the tabs on the PCV quick-disconnects and remove the hose.

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**01**

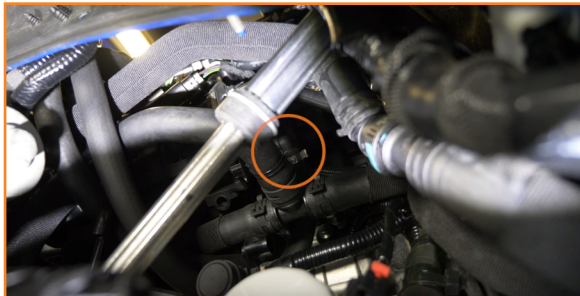
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6. Run the hose with a 90° bend up through the engine bay.
7. Attach the quick-disconnect on the other end to the red port.



8. Run the straight hose parallel with the first hose. Attach the quick-disconnect on the other end to the yellow port. Make sure neither hose has a kink in it.



9. Secure the coolant hose.
10. Reconnect the electrical harness.
11. Reroute the hose so it sits above the coolant line.
12. Assemble the can and attach the fittings. Snug them down with a wrench.
13. Remove the clips that secure the radiator sight shield. (5x pop-clips)

14. Remove the bolts that secure the air duct. (2x 8mm bolts)
15. Remove the radiator sight shield.
16. Install the catch can bracket. (2x 4mm Allen bolts, 2x washers, 2x locking nuts)
17. Attach the catch can to the bracket. (3x 2.5mm Allen bolts)



18. Attach the bend to the inlet port on the catch can. (1x worm gear clamp)



19. Attach the straight hose to the outlet port on the catch can. (1x worm gear clamp)
20. Use zip ties to secure both hoses.



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# 02

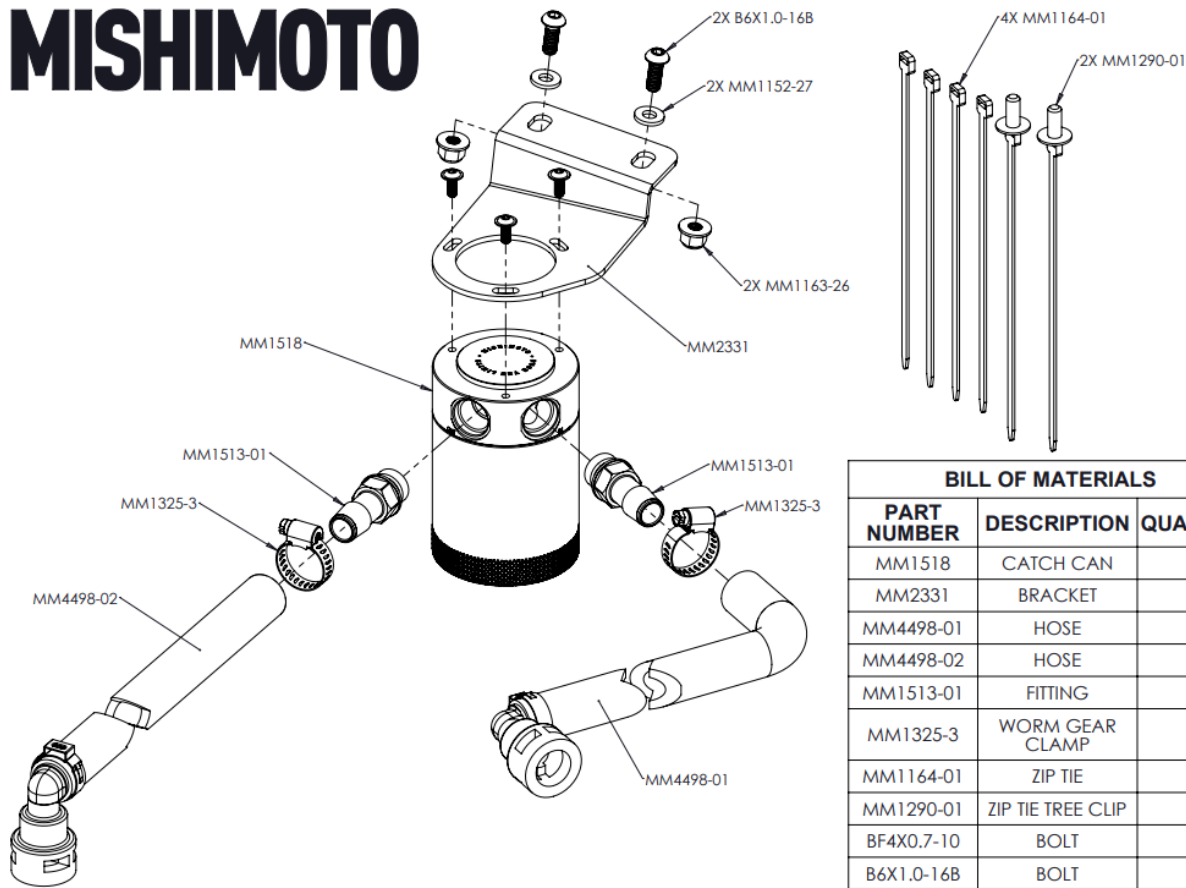
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21. Reinstall the radiator sight shield. (5x pop-clips)
22. Secure the air duct. (2x 8mm bolts)
23. Reinstall the engine splash guard. (8x pop-clips)

**Congratulations! You have finished installing the Mishimoto 2019+ Ford Ranger Baffled Oil Catch Can, PCV Side.**

Below is the hardware list and an exploded view of the catch can layout for information on the parts included and setup.



BILL OF MATERIALS		
PART NUMBER	DESCRIPTION	QUANTITY
MM1518	CATCH CAN	1
MM2331	BRACKET	1
MM4498-01	HOSE	1
MM4498-02	HOSE	1
MM1513-01	FITTING	2
MM1325-3	WORM GEAR CLAMP	2
MM1164-01	ZIP TIE	4
MM1290-01	ZIP TIE TREE CLIP	2
BF4X0.7-10	BOLT	3
B6X1.0-16B	BOLT	2
MM1152-27	WASHER	2
MM1163-26	LOCKING NUT	2