

# 2015–2016 WRX BAFFLED CATCH CAN

## PARTS LIST AND INSTALLATION GUIDE



### PARTS LIST

- 2 PC | APPLICATION-SPECIFIC MOUNTING BRACKETS
- 2 PC | BLACK, ANODIZED 6061 ALUMINUM CATCH CANS
- 4 PC | SILICONE HOSES
- 4 PC | PLASTIC BARBED FITTINGS
- 4 PC | WORM-GEAR CLAMPS
- 2 PC | BRONZE FILTERS
- 2 PC | AIR DIVERTERS
- 2 PC | INTERNAL BAFFLES & RODS
- 2 PC | 3/8" NPT PLUGS
- 2 PC | LARGE O-RINGS
- MOUNTING HARDWARE

### TOOLS NEEDED

- |                                |                         |
|--------------------------------|-------------------------|
| 2.5MM ALLEN KEY                | 3/8" DRIVE RATCHET      |
| 7MM SOCKET                     | 3/8" DRIVE EXTENSION(S) |
| 10MM SOCKET                    | 10MM WRENCH             |
| UNIVERSAL 1/4" SWIVEL          | 17MM WRENCH             |
| 1/4" DRIVE RATCHET             | FLATHEAD SCREWDRIVER    |
| 1/4" DRIVE 3" EXTENSION        | PANEL TOOL              |
| 10MM RATCHETING WRENCH         | NEEDLENOSE PLIERS       |
| 12MM DEEP SOCKET               | LONG NEEDLENOSE PLIERS  |
| 14MM SOCKET (SHALLOW AND DEEP) | DIAGONAL PLIERS         |

**INSTALLATION TIME** 2 HOURS

**INSTALL DIFFICULTY**

### DISCLAIMER

- Raise vehicle only on jack stands or on a vehicle lift.
- Allow vehicle to cool completely prior to attempting installation.
- Do not run the engine or drive the vehicle while overheating; serious damage can occur.
- Please dispose of any liquids properly.
- 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.

### INSTALLATION INSTRUCTIONS

**Maintenance Note:** It is recommended that you check and drain the contents of the catch cans every 1000 miles until a baseline for oil accumulation is established. This will be different for every car and will change based on ambient temperatures and driving conditions.

01. Assemble the catch cans. The small Allen bolts and washers will be used to secure the cans to the brackets. The tall bracket and small fittings will be installed on the PCV-side catch can. The L-shaped bracket and larger fittings will be installed on the CCV-side catch can. Thread the fittings into the catch cans and snug them down with a wrench. These fittings have a tapered thread so they will not be completely flush with the can when installed. Now attach the brackets to the catch cans with the provided Allen bolts and washers. (4x 2.5mm Allen bolts, 4x washers)



02. Remove the two pop-clips that secure the intake air duct to the radiator support. Then remove the intake air duct. (2x pop-clips)



03. Remove the two pop-clips that secure the back of the plastic engine cover. Then remove the engine cover from the vehicle by lifting it from the front edge. The front edge is held on with two pegs and grommets. (2x pop-clips)

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# 01

# 2015-2016 WRX BAFFLED CATCH CAN INSTALLATION GUIDE



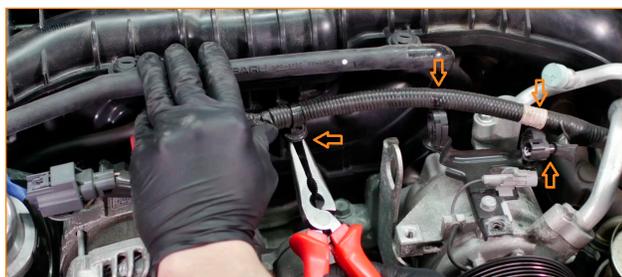
- 04.** Remove the two bolts that secure the support bracket to the engine. Then remove the bracket. (2x 10mm bolts)



- 05.** Take note of how the belt is routed and draw a diagram for later. Then take the tension off the belt and remove it from the AC compressor pulley. The tensioner bolt is a 14mm fastener.



- 06.** Release the harness clips that secure the alternator cable and disconnect the electrical harness from the AC compressor. Then lift the alternator cable out of the harness clips and tuck it back. Disconnect the alternator cable from the intake manifold by compressing the tabs on the clip and sliding it out of the manifold.



- 07.** Remove the four bolts that secure the AC compressor and engine hook. Then remove the engine hook and move the compressor forward to expose the CCV port underneath. (4x 14mm bolts)



- 08.** Remove the pop-clips that secure the crankcase vent hose to the intake manifold. (2x pop-clips)



- 09.** Reach down behind the AC compressor and compress the clamp that secures the CCV hose to the engine. Then separate the hose from the engine. (1x spring-clamp)



- 10.** Follow the CCV hose down to the port where it connects to the turbocharger inlet. Compress the clamp that secures this connection, and then disconnect the hose. Separate the CCV hose from the clip that secures it, and then remove the CCV hose from the vehicle. (1x spring-clamp)



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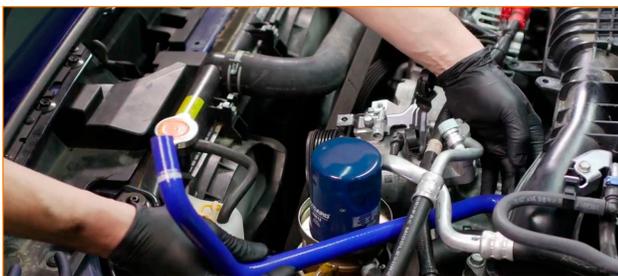
# 2015–2016 WRX BAFFLED CATCH CAN INSTALLATION GUIDE



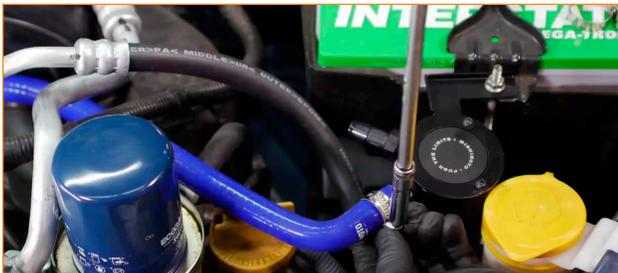
11. Remove the forward nut from the battery tie-down and install the catch can with the L-shaped bracket over the stud on the tie-down. Then secure the can with the provided lock nut. (1x 10mm Nyloc nut)



12. Locate the hose with three bends in your kit. Lead the end with the 90° bend under the electrical harness and AC lines as shown here. Slip a worm-gear clamp over the end of the hose and install it to the CCV port on the engine. Now tighten the clamp to secure the hose. (1x worm-gear clamp)

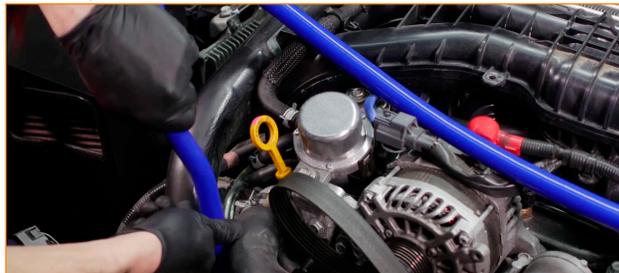


13. Slip a hose clamp over the other end of this hose and install it to the port marked IN on the catch can. (1x worm-gear clamp)



14. Reinstall the AC compressor and engine hoist bracket. Secure them with the original bolts. (4x 14mm bolts)
15. Secure the alternator cable with the harness clips and reattach the wiring harness to the AC compressor.
16. Locate the long hose in your kit. This will connect the CCV-side catch can to the turbocharger inlet.

17. Route the end with the bends down between the intercooler pipe and the radiator hose. Slip a worm-gear clamp over the end of this hose and install it to the port on the turbocharger inlet. Then secure the hose with the clamp. (1x worm-gear clamp)



18. Lead the hose so it follows the intake manifold across the engine bay. Slip it under the AC line and install a worm-gear clamp over the end of the hose. Attach the hose to the port marked OUT on the catch can. Then tighten the clamp to secure the hose. (1x worm-gear clamp)

19. Locate the zip-tie tree clips included with your kit. Install the zip ties around the CCV hose as shown here, and then secure the CCV hose to the intake manifold. Check to make sure the hose is properly routed, then tighten the zip ties and trim off the excess. (2x zip-tie tree clips)



20. Reinstall the serpentine belt. Leave one of the smooth-edged idler pulleys until the end to make installation easier.
21. Reinstall the support bracket and secure it with the two bolts. (2x 10mm bolts)
22. Now go back and tighten the bolts that secure the catch can to the bracket.
23. The excess hose on the CCV-side can allows for easy access to the oil filler cap when it's time to perform service.

CONTINUED ON NEXT PAGE

# 2015–2016 WRX BAFFLED CATCH CAN INSTALLATION GUIDE



- 24.** Loosen the clamps at the inlet and outlet of the intercooler. (2x worm-gear clamps)



- 25.** Remove the bolts that secure the driver-side intercooler mounting bracket. Then remove the bracket. Note that the longer bolt is the one that secures the intercooler to the bracket. (3x 12mm bolts)



- 26.** Remove the bolt that secures the intercooler mounting bracket on the passenger side. (1x 12mm bolt)
- 27.** Separate the intercooler pipe from the passenger side of the intercooler, and then remove the intercooler.
- 28.** Locate the PCV hose behind the intake manifold. This is a short hose running from a valve on top of the engine to a port on the back of the intake manifold. Compress the clamps that secure the hose and slide them off the connections. Then remove the hose. If you are having trouble getting to the manifold side of the hose, separate the harness connector from the bracket by pressing the lock tab on the underside of the connector.



- 29.** Install the PCV-side catch can to the radiator support. Slip the catch can and bracket underneath the radiator support and align it with the holes as shown here. Locate the washers included with your kit and place them over the holes. The larger washer goes over the slotted hole and the small washer goes over the round hole. Secure the catch can with the remaining bolts and Nyloc nuts. (2x 10mm bolts, 1x large washer, 1x small washer, 2x 10mm Nyloc nuts)



- 30.** Locate the hose with the single 90° bend. Note that one end of this hose has a larger diameter outlet. Slip a worm-gear clamp over the end with the 90° bend, then install this to the port marked OUT on the catch can. Lead the wide end of the hose under the wiring harness. Lead it underneath the hoses at the back of the manifold and install a worm-gear clamp over the end. (1x worm-gear clamp)



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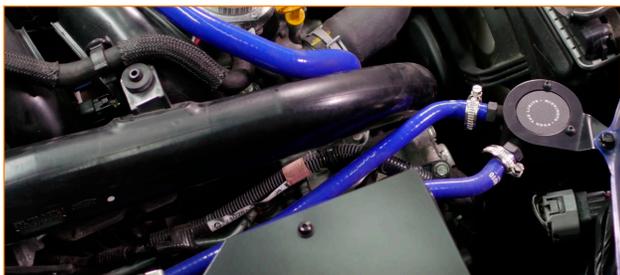
# 2015–2016 WRX BAFFLED CATCH CAN INSTALLATION GUIDE



31. Locate the last hose in the kit. Note that one end of the hose has a sharper bend than the other. Install a hose clamp over the end with the sharper bend and lead it alongside the hose you just installed. Now connect the hose to the PCV valve on the top of the engine block, slide the worm-gear into place and tighten it to secure the hose. (1x worm-gear clamp)
32. Now attach the wide end of the first hose you led to the port on the intake manifold. Slip the worm-gear into place and tighten it to secure the hose. (1x worm-gear clamp)
33. Slip a worm-gear clamp over the last hose end and connect it to the port marked IN on the catch can. Slide the clamp down the hose and then tighten both clamps at the catch can. (1x worm-gear clamp)



34. Check the routing on your hoses. The hose connected to the IN port on the catch can should be attached to the PCV valve on the engine block. The hose connected to the OUT port on the catch can should be attached to the port on the intake manifold.



35. Now tighten the bolts that secure the catch can to the bracket.
36. Reinstall the intercooler. Connect the hot-side intercooler pipe first, then connect the cold-side pipe.
37. Install the driver-side intercooler mounting bracket, and thread in the three bolts that secure it. Remember that the longer bolt secures the intercooler to the bracket. Then install the bolt that secures the passenger side of the intercooler and tighten it. Now go back and tighten the bolts on the driver side and reconnect the brake booster hose to the bracket. (4x 12mm bolts)
38. Tighten the clamps at the intercooler inlet and outlet.
39. Install the intake air duct and secure it with the pop-clips. (2x pop-clips)
40. Reinstall the engine cover. Press the two pegs at the front of the cover into the grommets on the support bracket, and adjust the catch can hoses so they will not be pinched by the cover. Then secure the top of the cover with the two pop-clips. (2x pop-clips)

**Congrats! You just finished installing the 2015-2016 WRX Baffled Catch Can!**