



CCS OIL CATCH CAN KIT FOR 2009- 2018 RAM 5.7L V8

PART NO. CCS-CH-105

MADE IN USA



Important: Read these instructions in their
entirety prior to installation.

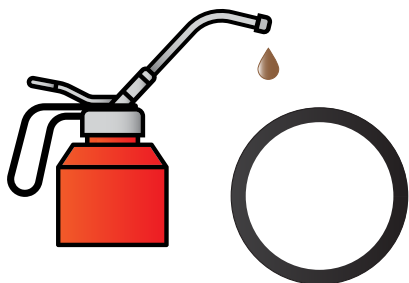
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PARTS CHECK

- Visit the website product page to confirm vehicle compatibility.
- Confirm that all parts are included by matching them to the images in this manual.

BEFORE YOU BEGIN

- ⚠ WARNING:** This product should be installed by a qualified mechanic.
- ⚠ WARNING:** Improper installation could result in severe engine damage.
- 💡 Use aluminum tools to avoid damaging the aluminum fittings.
- 💡 Lubricate all quick connect fitting barbs before connecting the hoses.
- 💡 Lubricate all visible O-rings prior to installation to prevent damage and ensure a leak-free seal.



INSTALLATION INSTRUCTIONS

- ⚠ WARNING:** Confirm the car is not hot prior to installation.

REMOVE FACTORY INTAKE

1. Remove MAF sensor plug located on intake tubing as seen in Figure 1.



Figure 1 - MAF Location

2. Unscrew the band clamp connecting the intake tubing to the throttle body.
3. Remove the accessory tube connected to the air filter box.
4. Unlatch metal clips securing upper air filter box.
5. Remove intake tubing and top of air filter box straight upwards.
6. Set intake aside.

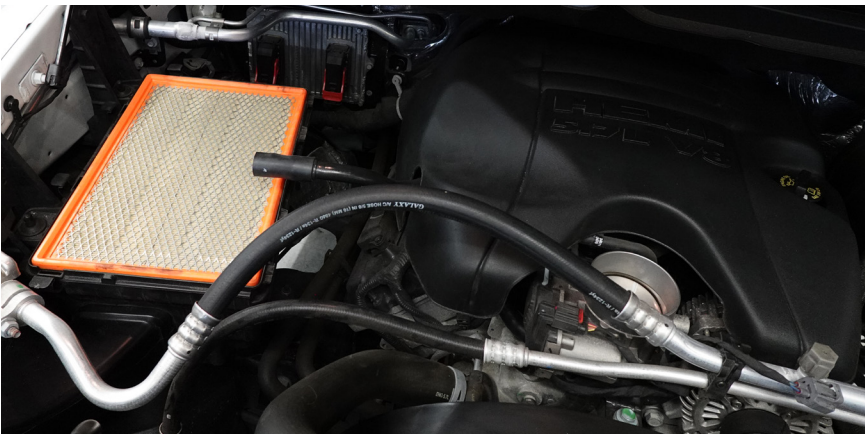


Figure 2 - Intake Removed

REMOVE FACTORY ENGINE COVER

1. Lift front of engine cover up until the front snaps have popped loose.
2. Pull the engine cover forward toward the radiator to remove the rear posts from the holes in the back of the intake manifold as seen in Figures 3 and 4.



Figure 3 - Intake Manifold Engine Cover Post Holes



Figure 4 - Engine Cover Rear Posts

3. Remove engine cover up and away.
4. Set engine cover aside.

REMOVE FACTORY PCV LINE

1. The PCV line connects from the rear of the intake manifold to the front of the intake manifold below the throttle body.
2. Remove the hose to expose the outlet and inlet as seen in Figures 5 and 6.



Figure 5 - PCV Crankcase Outlet

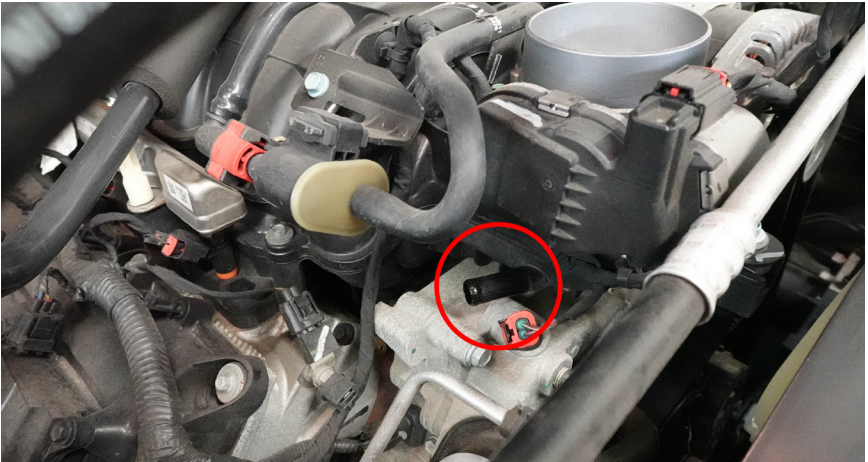


Figure 6 - PCV Return Inlet

3. Set hose aside. This will no longer be used.

MOUNTING THE CATCH CAN BRACKET

1. Locate and remove the factory screw on passenger side of the radiator shroud seen in Figure 7.

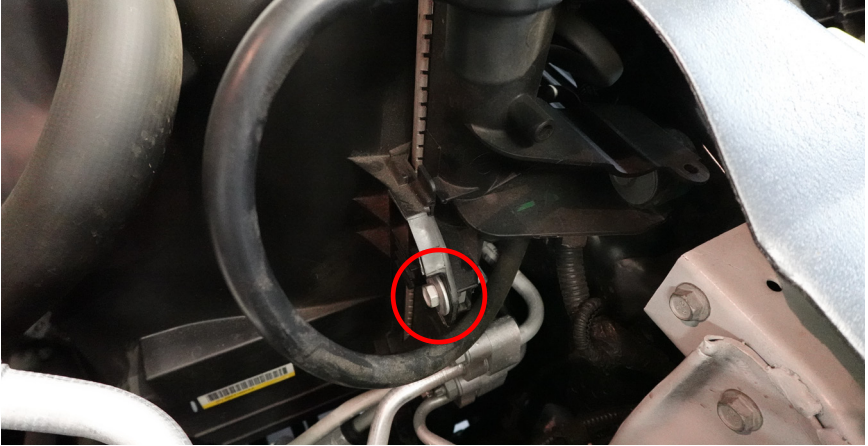


Figure 7 - Screw Location

2. Assemble the two supplied brackets together using the 3 M6 screws as seen in Figure 8
 - a. Secure the safety clip lanyard under one of the 3 screws.
 - b. Use a 10mm socket tool to torque the screws to 120 lb-in (10 lb-ft, 13 N-m).



Figure 8 - Assembled Bracket

3. Holding the bracket and the 3D printed bracket pad together, mount the two components to the radiator shroud with the supplied M8 screw as seen in Figure 9.



Figure 9 - Installed Catch Can Bracket

MOUNTING THE CATCH CAN

1. Remove the nut from the catch can.
2. Insert the catch can through the large hole on in the mounting bracket.
3. Position the pin into the bracket hole shown in Figure 10.

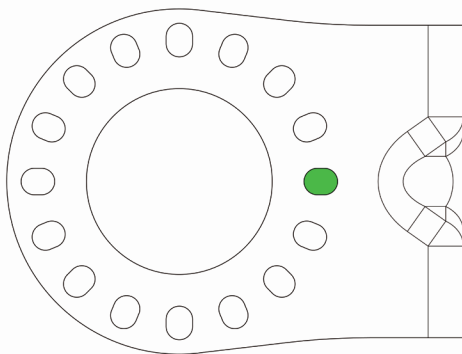


Figure 10 - Bracket Hole for Catch Can Pin

4. Thread the nut onto the catch can and tighten with a 5/8" wrench.
- 💡 When hand tightening, smear a dab of anti-seize around the threads to guarantee the nut is properly tightened.
5. Install the two straight quick connect fittings into the in and out port of the catch can.
 - a. Confirm the O-ring is installed.
 - b. Install the fitting, confirming the base of the hex sits flush and forces the O-ring completely in the gland.
 - c. Tighten fittings to between 13 to 16 lb-ft (17 to 22 N-m).

CONNECT CATCH CAN HOSES



Figure 11 - Installed Catch Can

1. Install the shorter line.
 - a. Connect the 90° quick release to the straight fitting on the outlet of the catch can.
 - b. Connect the open end to the barb on the intake manifold below the throttle body.
2. Connect the longer line.
 - a. Connect the straight quick release fitting to the straight fitting on the inlet of the catch can.
 - b. Connect the open end to the barb on the factory air oil separator at the rear of the intake manifold.



Figure 12 - Installed Catch Can Lines

COMPLETING THE INSTALL

⚠ Double check hoses are securely attached to the intake manifold barbs. They will be obscured by the engine cover.

1. Following the instructions from earlier in reverse order:
 - a. Reinstall the factory engine cover.
 - b. Reinstall the factory intake.
 - c. Reconnect the factory MAF plug.
2. Use a 3/16" hex tool to install the hose spacer onto the two hoses as shown.

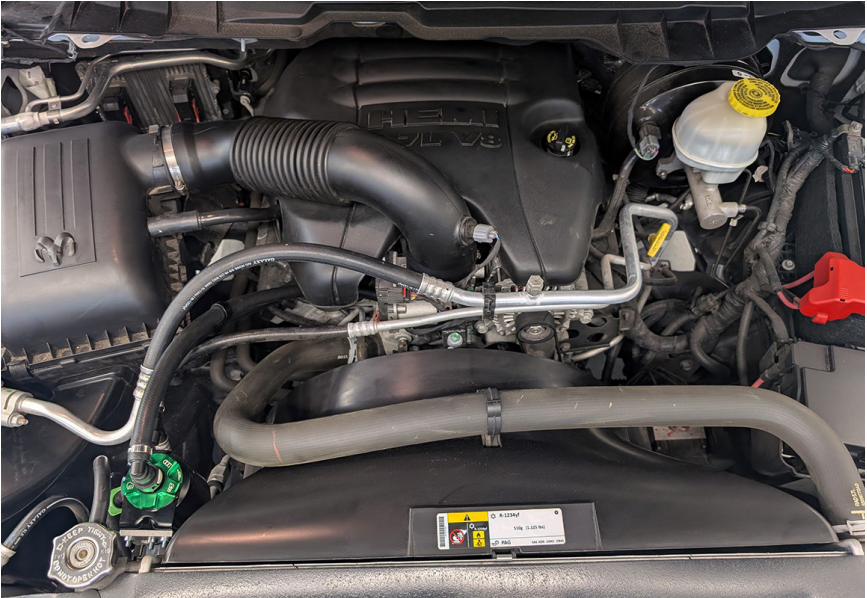


Figure 13 - Catch Can and Hose Spacer Fully Installed

3. Confirm all mounting hardware is properly fastened
4. Start the vehicle and check for signs of a vacuum leak.
 - a. Troubleshoot and check connections if necessary.

🏁 Installation is now complete. Thank you for purchasing an Improved Racing product!