CCS OIL CATCH CAN KIT FOR GEN 5 CAMARO SS W/ L99 ENGINE (AUTO TRANS)

PART NO. CCS-GM-105

MADE IN USA



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

For contact information, visit www.improvedracing.com

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Rev 251218

PARTS CHECK

- Visit the website product page for technical data and to confirm all parts have arrived by checking the images.

INSTALLATION INSTRUCTIONS

BEFORE YOU BEGIN

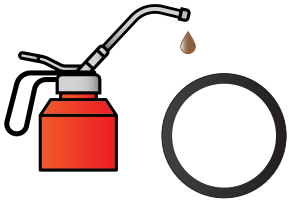
⚠ **WARNING: This product should be installed by a qualified mechanic.**

⚠ **WARNING: Improper installation could result in severe engine damage.**

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.

Use aluminum tools to avoid damaging the aluminum fittings.



PREPARE THE CAR

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

1. Open the hood to access the engine compartment.
2. Remove the engine cover.
3. Disconnect the battery.

Use zip-ties to secure the battery wires from contacting the terminals.

4. Remove the factory PCV hose shown in Figure 1:
    a. Consider removing the EVAP solenoid cylinder head bracket for more work space.
    b. Consider unplugging the MAF harness for more work space.
    c. Remove the factory PCV tube connected to the intake manifold and left side, rear valve cover by lifting and rotating the lock tabs.
    d. Leave parts off/unplugged until reassembly.

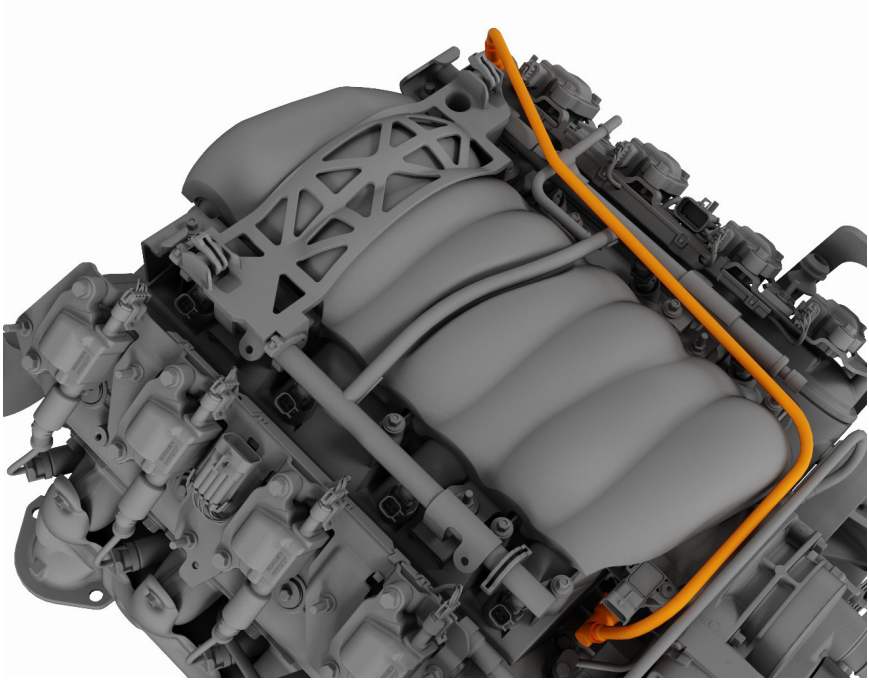


Figure 1 - Factory PCV Hose (Highlighted Orange)

5. Remove the stud from the right side cylinder head shown in Figure 2 and set the stud aside.

6. Remove the metal wire harness clamps shown in Figure 2 and set aside.

The wire harness is rigid and stays in place without the clamps.



Figure 2 - Stud and Clamps to Remove from Right Side Cylinder Head

7. Flatten the tab on the ring terminal using pliers.
8. Use the short screw supplied with the kit to move the wire terminal into the lower cylinder head hole shown in Figure 3.



Figure 3 - Ground Wire Relocated

9. Torque the screw to 20 lb-ft (27 N-m).

INSTALL THE BRACKET & CAN

1. Review the included CCS product manual.
2. Fasten the 90° catch can bracket onto the engine bracket using a 10 mm tool and all three M6 flange screws from the kit.

Secure the lanyard cord to one of the screws.

3. Torque the M6 screws to 100 lb-in (11 N-m).
4. Use a 15 mm tool and the long screw included in the kit to install the spacer and bracket onto the cylinder head as shown in Figure 4.

The bracket and spacer interlock with each other, and to the corner of the cylinder head, shown in Figure 4.

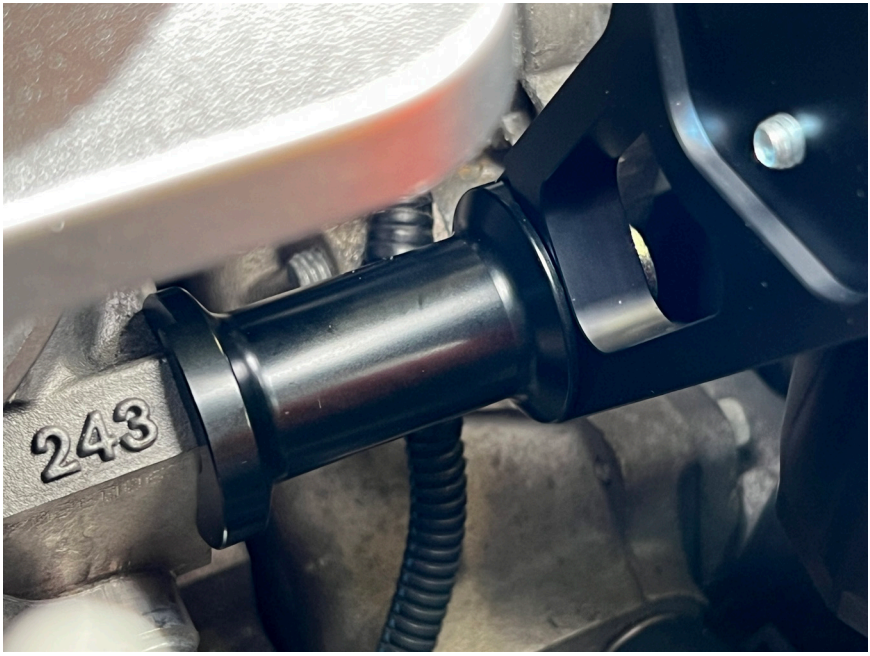


Figure 4 - Bracket & Spacer Mounted to Cylinder Head

5. Torque the screw to 33 lb-ft (44 N-m).
6. Insert the catch can through the large hole in the mounting bracket.
7. Position the catch can pin into the bracket hole shown in Figure 5.

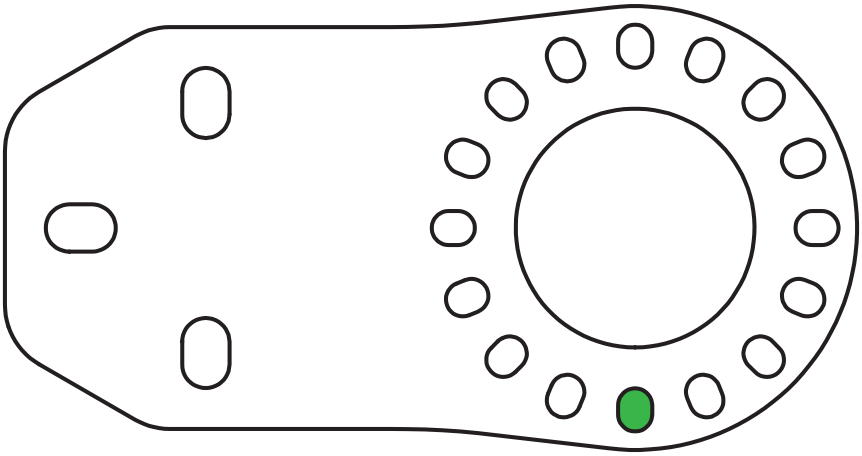


Figure 5 - Bracket Hole for Catch Can

8. Thread the nut onto the catch can and tighten with a $^{5}/_{8}$" wrench.

If hand tightening is preferred, smear a dab of anti-seize into the threads to guarantee the nut is properly tightened.

9. Thread each adapter fitting into the catch can.
10. Torque the fittings between 13 to 16 lb-ft (17 to 22 N-m).
11. Follow the same path as the original hose to connect the longer hose as follows:
    a. 90° fitting to the valve cover.
    b. Route the hose under the throttle body, not over like factory.
    c. Straight fitting to the catch can "IN" port.
12. Connect the shorter hose as follows:
    a. 90° fitting to the catch can "OUT" port.
    b. Straight hose to the intake manifold.

COMPLETE THE INSTALL

1. Reinstall the EVAP bracket and reconnect the MAF harness if removed for installation.
2. Reconnect the battery.
3. Test fit the engine cover and mark for trimming.
4. Remove the cover and trim using your preferred tool.
5. Replace the engine cover and confirm fit is similar to Figure 6.



Figure 6 - Trimmed Engine Cover

6. Start the vehicle and check for signs of a vacuum leak.
   a. Troubleshoot and check connections if necessary.
7. Confirm the safety lock clip is installed in the can before closing the hood.

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