CCS OIL CATCH CAN KIT FOR GEN 5 CAMARO SS & ZL1

PART NO. CCS-GM-109

MADE IN USA

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

For contact information, visit www.improvedracing.com

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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.

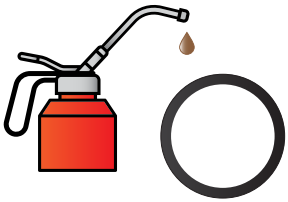
WARNING: Improper installation could result in severe engine damage.

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.

Read through this manual, in addition to the general CCS product manual prior to installation.



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. Remove the original PCV hose, highlighted orange in Figure 1:
   a. LS3 engines should consider removing the EVAP bracket from the cylinder head for more workspace.
   b. LSA engines should consider removing the vertical bracket holding the boost control solenoid, not the bypass actuator bracket, for more work space.

   This bracket is already removed in Figure 1.

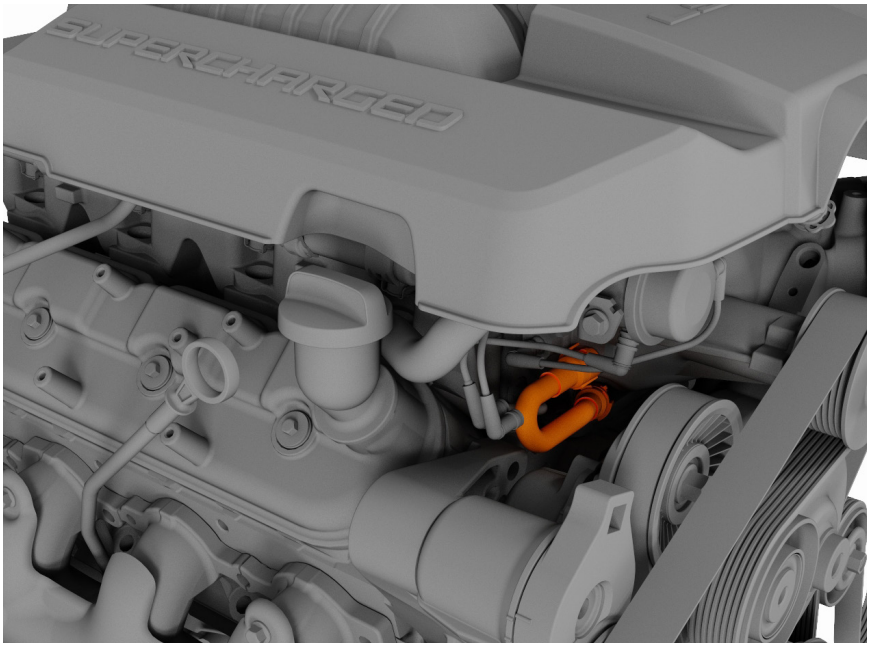


Figure 1 - PCV Hose Location on LS3 & LSA Engine

4. Set the hose aside: This part will no longer be used.

MOUNT THE CATCH CAN BRACKET

1. Refer to Figure 2 to see how the brackets mount on the radiator shroud.
2. Use a 10 mm tool to remove the factory radiator screws.
3. Use a 10 mm tool to install the brackets using all M6 flange screws included with the kit, shown in Figure 2.
4. Torque each radiator shroud screw to feel.

⚠ **DO NOT overtighten.**

5. Torque each screw clamping the brackets together to 100 lb-in (11 N-m).

💡 Secure the lanyard cord with one of the screws.

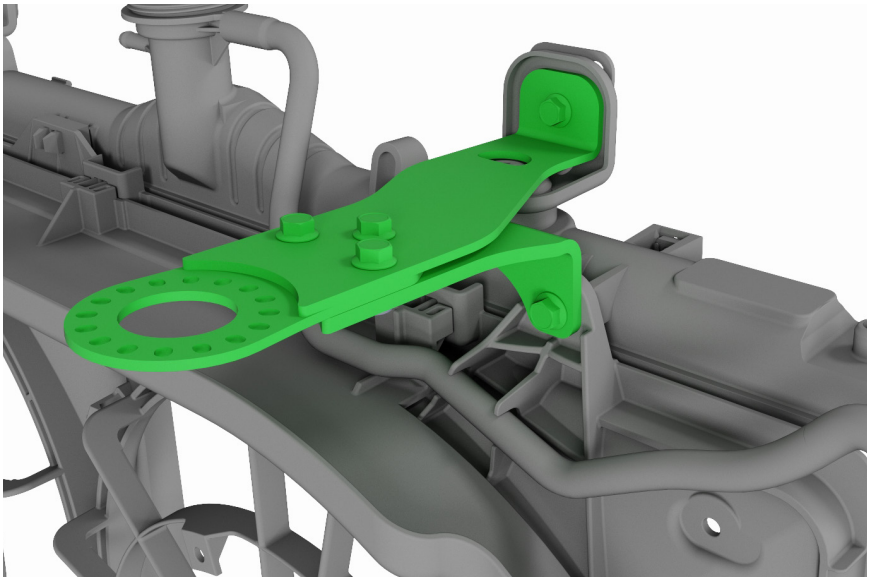


Figure 2 - Brackets Mounted on Radiator Shroud

MOUNT THE CATCH CAN

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

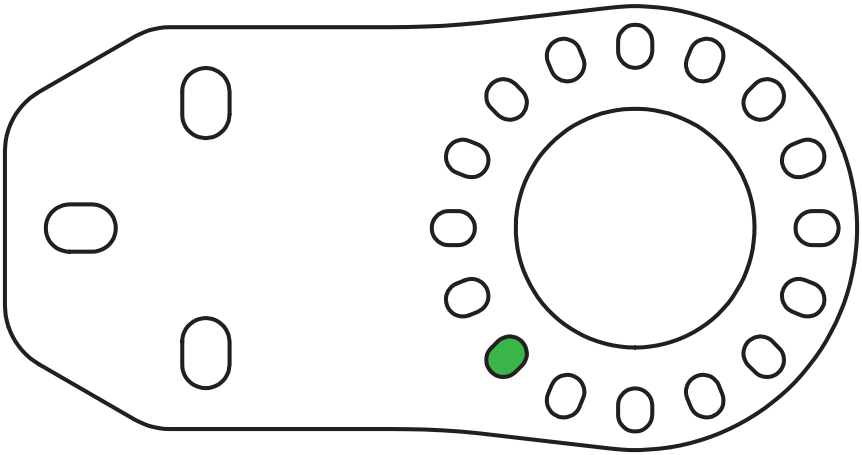


Figure 3 - Correct Bracket Hole for Pin on Top of Catch Can

4. Thread the nut onto the catch can and tighten with a $^{5}/_{8}$" (16 mm) wrench.

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

CONNECT THE LINES

1. Thread each adapter fitting into the catch can.
2. Torque the fittings between 13 to 16 lb-ft (17 to 22 N-m).
3. Connect the hose with a 45° fitting as follows:
   a. Connect the straight fitting to the valley cover.
   b. Connect the 45° fitting to the catch can IN port.
4. Connect the hose with a 90° fitting as follows:
   a. Connect the 90° fitting to the catch can OUT port.
   b. Connect the straight fitting to the intake manifold.

Refer to Figure 4 for hose routing.

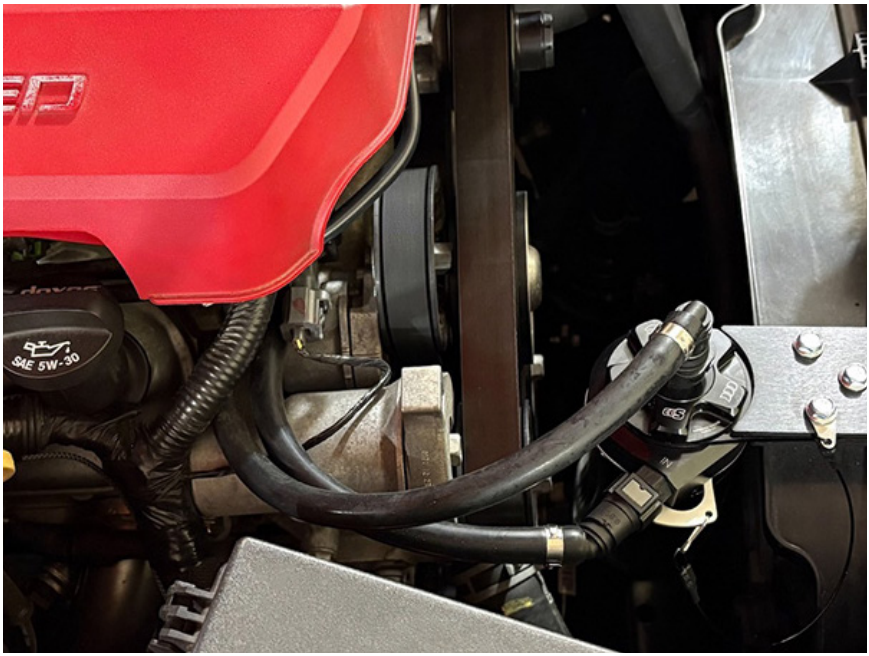


Figure 4 - Final Hose Routing

COMPLETE THE INSTALL

1. Confirm all mounting hardware is properly fastened.
2. Confirm all hoses are properly connected.
3. Attach the safety lock clip to the lanyard.
4. Reinstall any brackets removed for installation.
5. Reinstall the 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!