



C7 CORVETTE & GEN V SBC CRATE ENGINE CCS OIL CATCH CAN KIT

PART NO. CCS-GM-100

MADE IN USA



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

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APPLICATIONS

- 2014-2019 Chevrolet Corvette LT1 V8
- Generation 5 LT / Vortec engines with a PCV outlet on the front of the valley cover connecting to the front of the intake manifold.
 - The hoses supplied with the kit are specific to this configuration.
- The hole shown in Figure 1 must be present on the cylinder head otherwise the included bracket does not install.
 - The L82, L84 and L87 engines are not guaranteed to have the cylinder head hole shown in Figure 1.
 - Revised Generation 5 engines (engines with Dynamic Fuel Management instead of Active Fuel Management) may be missing this mounting hole.
- Does not fit 2016+ Chevrolet Camaro LT1 V8 due to interference with the factory air box. May fit with some aftermarket cold air intakes.

PARTS LIST

Item	Qty	Part Number	Description
1	1	CCS-80	Catch Can Top
2	1	CCS-73	3.5 fl oz Reservoir w/Drain
3	1	CCS-31	Catch Can Bracket
4	1	HSC-6000	Drain Plug to -6 ORB
5	1	CCS-GM-100-01	Engine Bracket
6	1	HSC-1041	M8x1.25x20 Mounting Screw for Engine Bracket
7	3	HSC-1040	M6x1.00x12 Mounting Screws for Catch Can
8	1	OQ-06-M10	Straight Catch Can Adapter Fitting
9	1	OQ-090-06-M10	90° Catch Can Adapter Fitting
10	1	CCS-GM-100-50	Hose: Engine Outlet to Can Inlet
11	1	CCS-GM-100-51	Hose: Can Outlet to Intake
12	1	CCS-41-01	Catch Can Lock

MOUNTING LOCATION ON ENGINE

The billet bracket will install onto the left cylinder head. This is shown in Figure 1. The factory wire harness mounting bracket installs on top of the billet bracket.

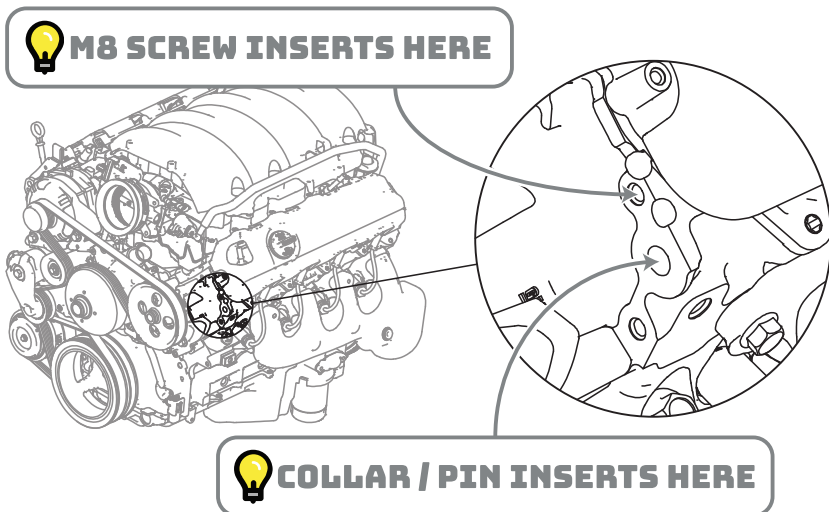



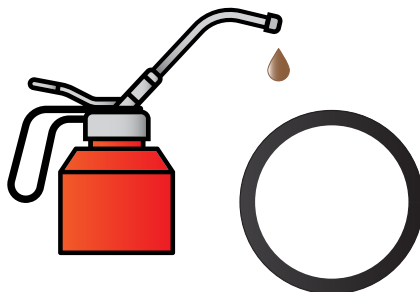



Figure 1 - Bracket Location on Cylinder Head

BEFORE YOU BEGIN

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

INSTALLATION INSTRUCTIONS

PREPARING THE CAR

1. Open the hood to access the engine compartment.
2. Gently pull upward to remove the plastic engine cover on the left side of the engine.
3. Remove the wire harness bracket screw from the cylinder head using a 13 mm tool, shown in Figure 2.

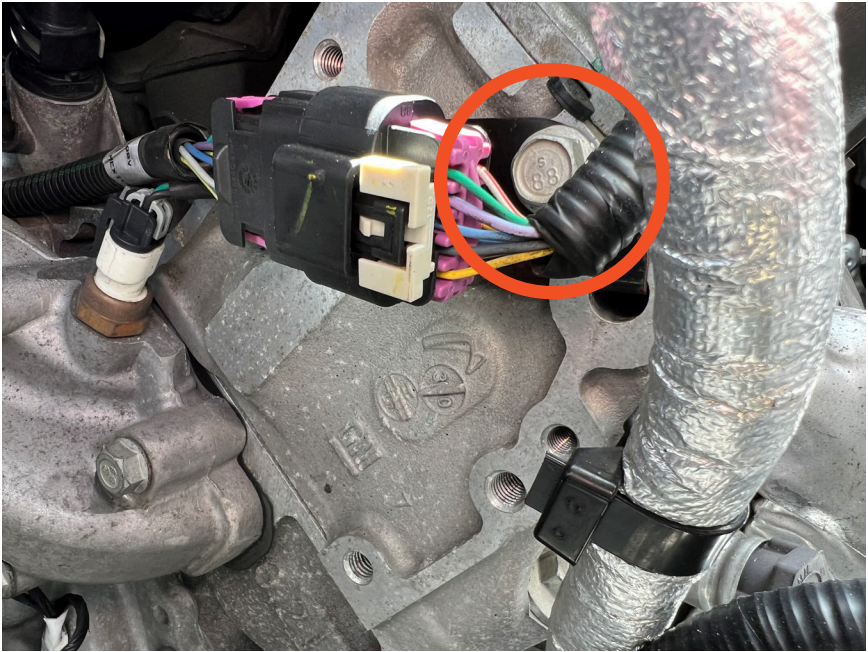


Figure 2 - Removing the Wire Harness Bracket

4. Depress the buttons on each fitting to remove the factory PCV hose from the intake and valley cover, highlighted red in Figure 3.



Figure 3 - Remove the Factory PCV Tube

INSTALLING THE BRACKET & CAN

1. Review the included CCS product manual.
2. Use a 12 mm tool to install the M8 screw, the wire harness mount and the billet bracket onto the cylinder head, as shown in Figure 4.

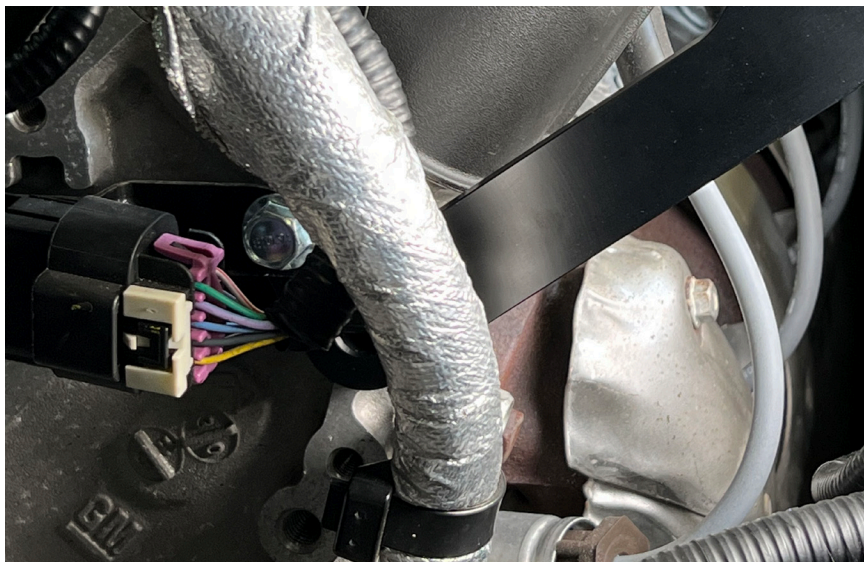


Figure 4 - Bracket with Harness Mount Installed

3. Torque the M8 screw to 24 lb-ft (33 N-m).
4. Install the 90° catch can bracket onto the billet engine bracket using all three M6 screws.
5. Use a 10 mm tool to torque the M6 screws to 10 lb-ft (13 N-m).
6. Remove the green nut and install the catch can into the bracket as shown in Figure 5.



Figure 5 - Catch Can Orientation in Engine Bay

7. Firmly tighten the green nut once the catch can is positioned as shown in Figure 6.
- 💡 Apply anti-seize onto the threads when hand-tightening the green nut because this increases the clamping force and properly secures the can.



Figure 6 - Using an Aluminum Wrench to Tighten the Green Nut

8. Install the adapter fittings as shown in Figure 5:
 - a. Inlet Port = Straight
 - b. Outlet Port = 90°
 - c. Torque fittings between 13 to 16 lb-ft (17 to 22 N-m).

CONNECTING THE LINES


1. Connect the hose with the 45° fitting as follows:
 - a. Connect the 45° fitting to the PCV outlet on the engine valley cover.
 - b. Connect the straight fitting to the catch can "IN" port.
2. Connect the other hose as follows:
 - a. Connect the straight fitting to the catch can "OUT" port.
 - b. Connect the straight fitting to the intake manifold.
3. An example completed installation on a 7th Generation Corvette is shown in Figure 7.



Figure 7 - Completed Installation

COMPLETING THE INSTALL

1. Replace the engine cover.
2. Start the vehicle and check for signs of a vacuum leak. Troubleshoot and check connections if necessary.
3. Install the safety lock clip before closing the hood.

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