CCS OIL CATCH CAN KIT FOR 2020+ C8 CORVETTE Z06 CONVERTIBLE

PART NO. CCS-GM-C83

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 260727

PARTS CHECK

- Visit the website product page to confirm vehicle application and confirm all parts have arrived by checking the images:

BEFORE YOU BEGIN

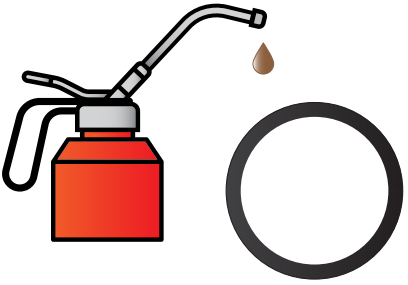
WARNING: This product should be installed by a qualified mechanic.

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.



This kit is supplied with a custom bracket pad, 3D printed from robust, carbon-fiber-infused nylon plastic. This polymer withstands temperatures up to 293 °F (145 °C) and is more than suitable for engine bays.

INSTALLATION INSTRUCTIONS

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

REMOVING THE FACTORY PCV TUBE

1. Open the hood to access the engine compartment.
2. Remove aftermarket engine covers when necessary.
3. Locate the factory PCV tube on the right side engine valve cover shown in Figure 1 and Figure 2.

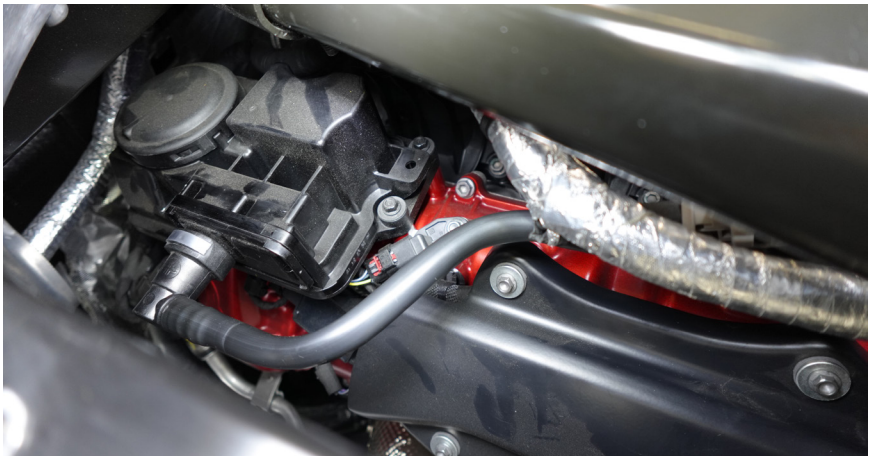


Figure 1 - PCV Tube Location on Engine

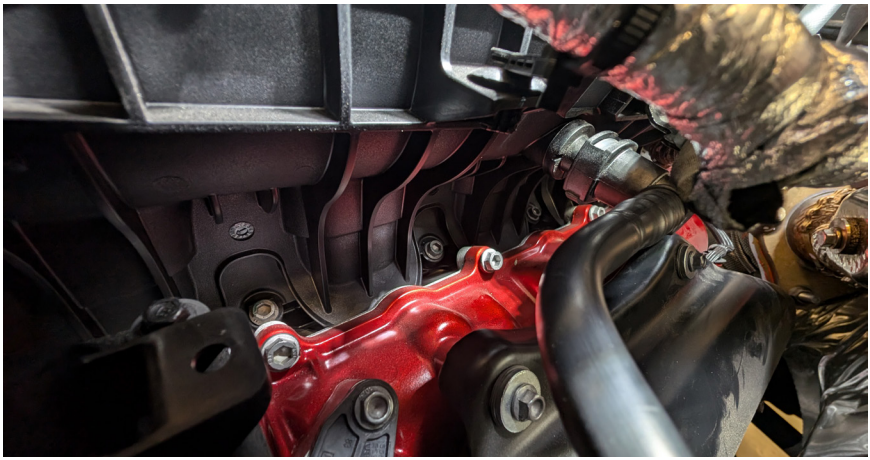


Figure 2 - PCV Tube Location on Engine

4. Depress the buttons on each end of the tube and remove the tube from the engine by gently pulling on each connection at the same time.
5. Set the tube aside: This part will no longer be used.

MOUNTING THE CATCH CAN BRACKET

1. Locate the rivet nut on the rear frame member, to the right of the coolant expansion tank, shown in Figure 3.

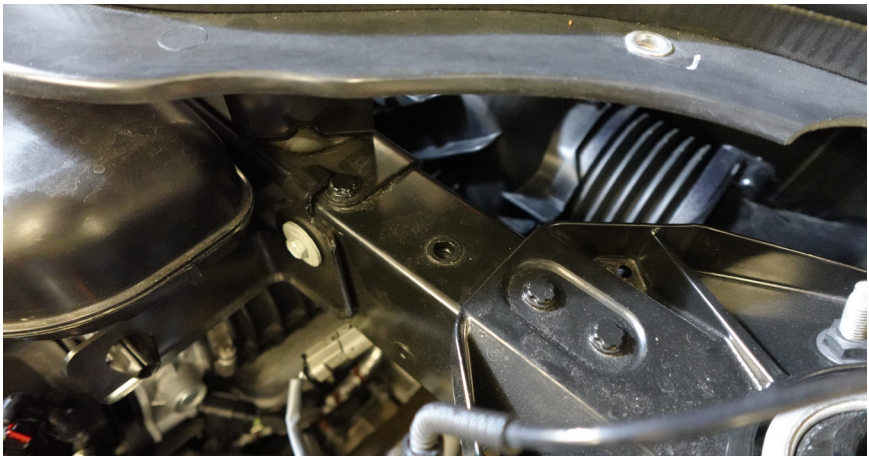


Figure 3 - Rivet Nut Mounting Location

2. Install the spacers into the 3D-printed bracket pad if not previously installed as shown in Figure 4.

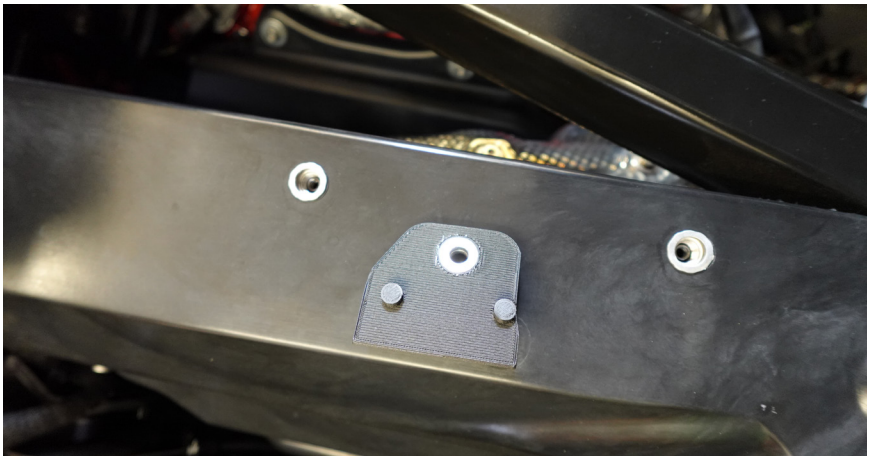


Figure 4 - Spacers Installed into Bracket Pad

3. Use the included screw to install the bracket pad, bracket and lanyard using a 10mm tool as shown in Figure 5.

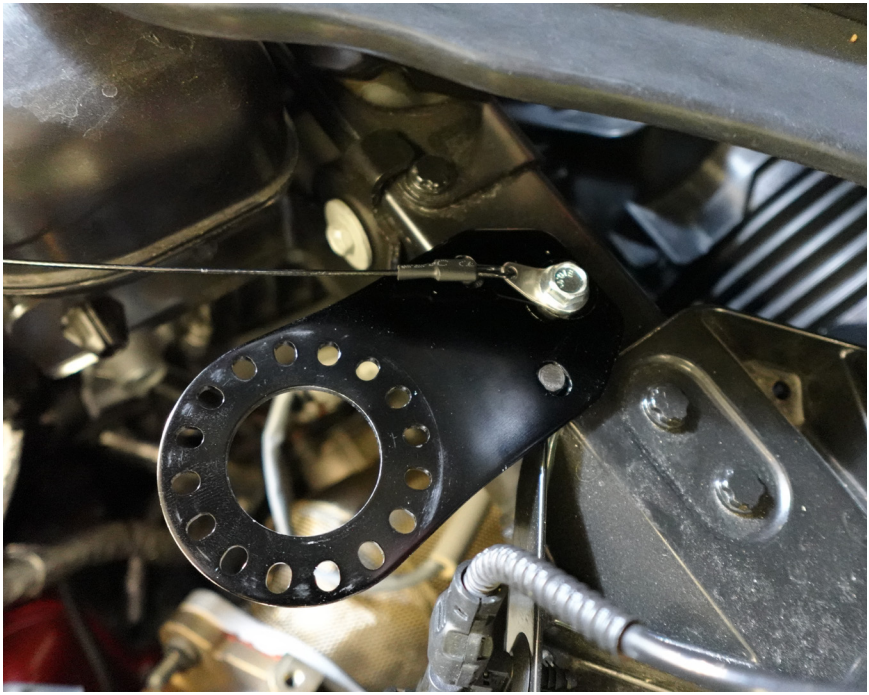


Figure 5 - Bracket Pad, Bracket and Lanyard Installed on Frame

4. Torque the screw to 80 lb-in (9 N-m).

MOUNTING THE CATCH CAN

1. Remove the nut from the catch can.
2. Install the straight fitting into the IN port on the catch can.
3. Torque the fitting between 13 to 16 lb-ft (17 to 22 N-m).
4. Install the 90° adapter fittings in the OUT port of the catch can:
   a. Confirm the O-ring is on the smooth part of the fitting.
   b. Turn the free spinning nut down flush to the O-ring.
   c. Install the fitting into the OUT port, confirming the nut remains flush and forces the O-ring completely inside the gland.
   d. Position the fitting to closely match the angle shown in Figure 6.
   e. Tighten the nut with a small adjustable wrench.



Figure 6 - OUT Fitting Angle

5. Insert the catch can through the large hole in the mounting bracket.
6. Position the pin into the bracket hole shown in Figure 7.

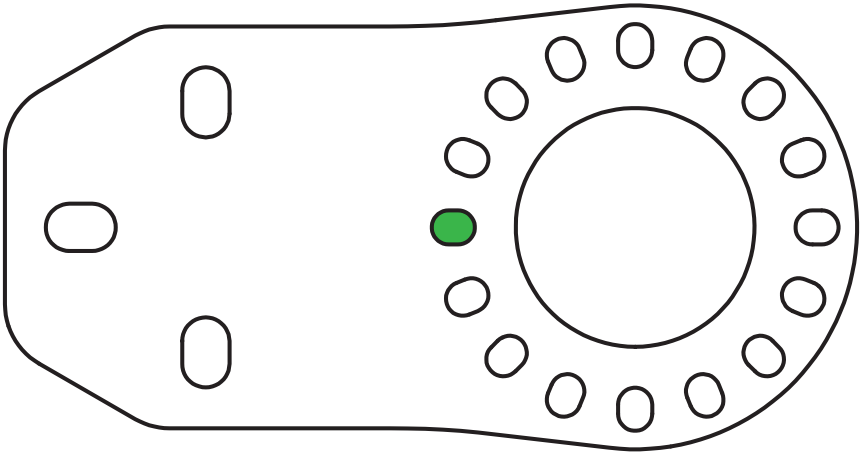


Figure 7 - Correct Bracket Hole for Pin on Top of Catch Can

7. Thread the nut onto the catch can and tighten with a 5/8" (16mm) wrench.

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

8. Attach the lock clip to the lanyard.
9. Install the lock clip into the catch can as shown in Figure 8.

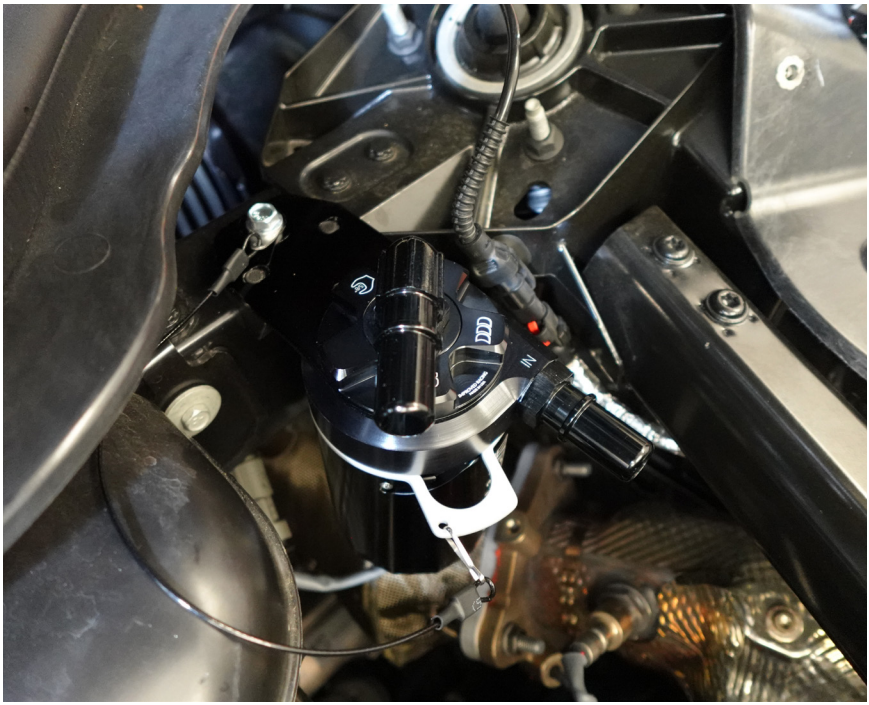


Figure 8 - Lock Clip Installed

CONNECTING THE LINES

1. Connect the shorter line:
    a. Route the hose between the EGT wire and intake manifold, and confirm the hose is under the wire harness on the valve cover.
    b. Connect the one fitting to the intake manifold.
    c. Connect the remaining fitting to the OUT adapter fitting on the catch can.
2. Connect the longer line:
    a. Route the hose under the frame brace bar.
    b. Connect the 90° fitting to the factory air-oil-separator.
    c. Connect the 45° fitting to the IN adapter fitting on the catch can.

Refer to the pictures on the website for additional detail.

COMPLETING THE INSTALL

1. Confirm all mounting hardware is correctly fastened.
2. Confirm all hoses are correctly connected.
3. Confirm the lanyard is attached to the safety lock clip and the safety lock clip is installed in the can before closing the hood.
4. Start the vehicle and check for signs of a vacuum leak.
   a. Troubleshoot and check connections if necessary.
5. Reinstall any aftermarket engine covers if applicable.
6. Close the hood.



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