CCS OIL CATCH CAN KIT FOR C8 CORVETTE ZR1 & ZR1X COUPE

PART NO. CCS-GM-C84

MADE IN USA



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

For contact information, visit www.improvedracing.com
Copyright © 2008-2026 Improved Racing Products, LLC. All rights reserved.

Rev 260831

PARTS CHECK

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

BEFORE YOU BEGIN

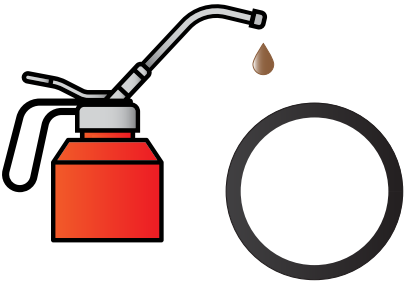
WARNING: This product should be installed by a qualified mechanic.

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.



INSTALLATION INSTRUCTIONS

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

PREPARING THE VEHICLE FOR INSTALL

1. Open the rear hatch to access the engine compartment.
2. Use a T-40 Torx driver to remove the two screws securing the driver's side engine bay cover, shown in **Figure 1**. Remove the cover and set it aside.

Retain the cover and both screws. They are reinstalled at the end of this procedure.

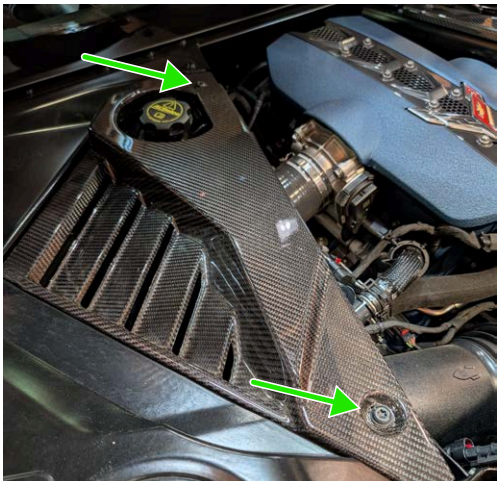


Figure 1 - Driver's Side Engine Bay Cover

3. Use a 10mm socket to remove the screws securing the charge cooler tank to the strut brace, shown in **Figure 2**.

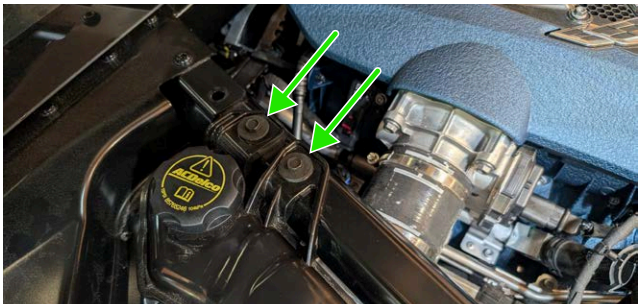


Figure 2 - Charge Cooler Tank Mounting Screws

REMOVING THE FACTORY PCV LINE

1. Lift the charge cooler tank to gain access to the factory PCV line.
2. Unclip the line shown in **Figure 3** by squeezing the button and gently pulling the line out.

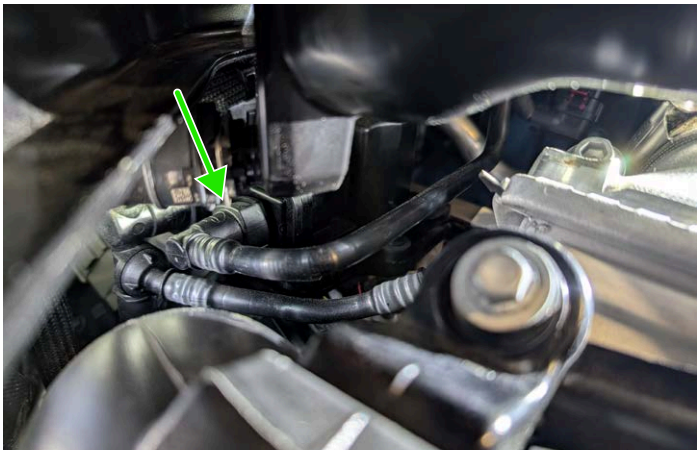


Figure 3 - Factory PCV Line Connection

3. The other end of the line is connected to the intake manifold. Unclip the line at the location shown in **Figure 4** and remove the line completely.

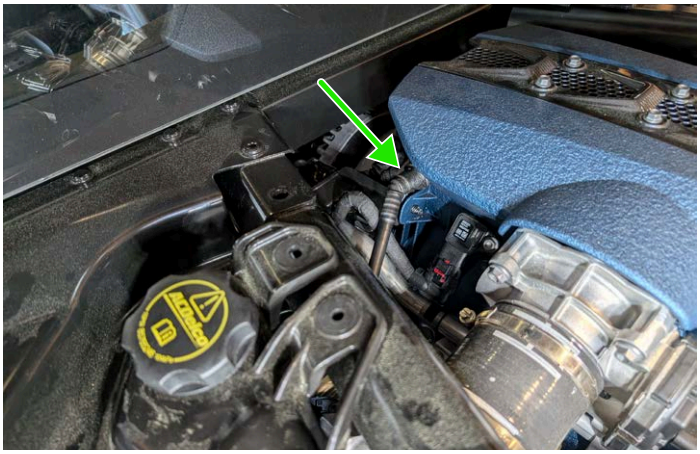


Figure 4 - Factory PCV Line Connection at the Intake Manifold

4. Set the factory PCV line aside. This part will no longer be used.

ROUTING THE CATCH CAN HOSES

1. Connect the 90° end of the Improved Racing crankcase hose (shorter hose) to the factory barb on the PCV outlet, as shown in **Figure 5**, then route the hose to the rear of the vehicle and under the strut brace.



Figure 5 - Crankcase Hose Connected

2. Connect the 45° end of the Improved Racing intake manifold hose (longer hose) to the factory barb on the intake manifold, as shown in **Figure 6**.



Figure 6 - Intake Manifold Hose Connected

INSTALLING THE BRACKETS

1. Secure the adapter bracket to the rear firewall using the two included M6 x 30mm hex flange screws, as shown in **Figure 7**.
   a. Pass the screw indicated by the green arrow through the lock clip lanyard eyelet.
   b. Install both screws and tighten securely with a 10mm socket. Do not overtighten.

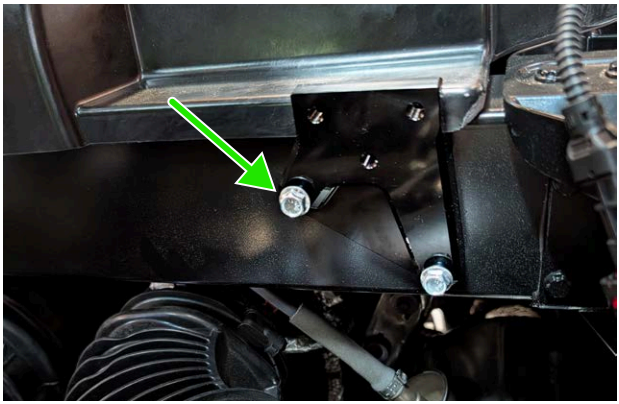


Figure 7 - Adapter Bracket Installed

2. Secure the 90° catch can mounting bracket to the adapter bracket using the three included M6 x 12mm hex flange screws, as shown in **Figure 8**. Tighten securely with a 10mm socket.

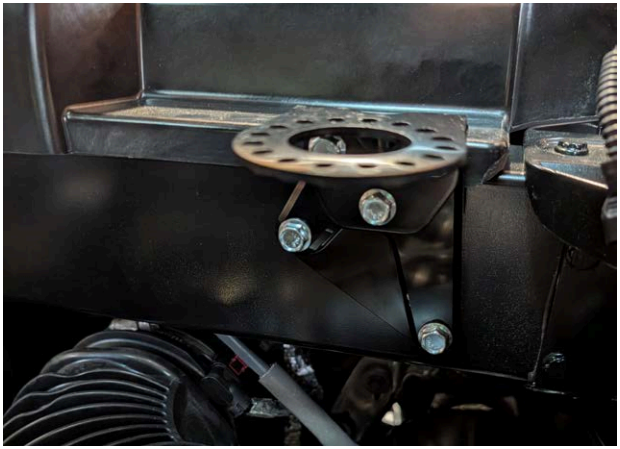


Figure 8 - Mounting Bracket Installed on the Adapter Bracket

INSTALLING THE CATCH CAN

1. Position the catch can in the mounting bracket, seating the pin on top of the catch can into the bracket hole shown in **Figure 9**. Confirm the IN port points directly to the front of the vehicle.

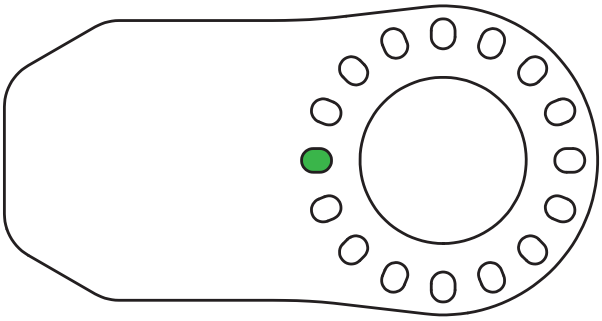


Figure 9 - Correct Bracket Hole for Pin on Top of Catch Can

2. Secure the catch can to the mounting bracket using the lock nut as shown in **Figure 10**. Tighten the lock nut 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.



Figure 10 - Catch Can Secured

3. Install the straight adapter fitting into the IN port of the oil catch can. Torque the fitting between 13 to 16 lb-ft (17 to 22 N-m).
4. Back the jam nut on the 90° adapter fitting until it bottoms out against the fitting. Thread the fitting into the OUT port of the oil catch can until it bottoms out, then back it off approximately one half turn. Do not tighten yet.

The 90° fitting will be clocked to its final position and locked down later, once the intake manifold hose is connected.

CONNECTING THE HOSES

1. Locate the hose mounting tab shown in **Figure 11**.

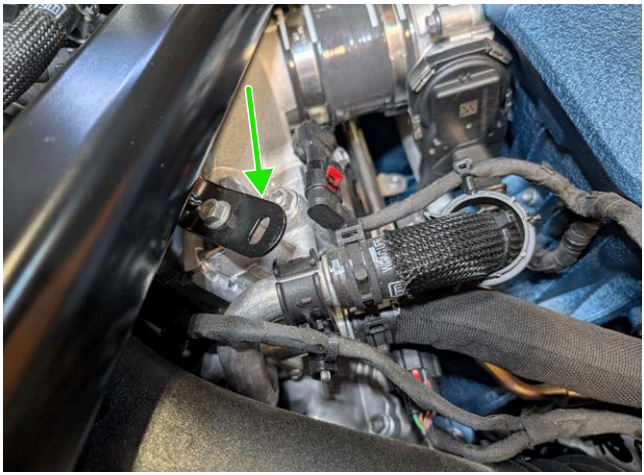


Figure 11 - P-Clamp Mounting Tab Location

2. Secure the intake manifold hose to the mounting tab using the included cushioned P-clamp, M6 x 20mm hex flange screw and M6 nut, as shown in **Figure 12**, on the next page. Tighten securely with a 10mm socket and wrench.



Figure 12 - P-Clamp Securing the Intake Manifold Hose

3. Connect the remaining end of the crankcase hose to the fitting in the IN port on the oil catch can. Push the quick connect on until it clicks into place.
4. Connect the remaining end of the intake manifold hose to the fitting in the OUT port of the oil catch can. Push the quick connect on until it clicks into place.
    a. Confirm the hose is routed so that it will not rub on any sharp corners and is not pinched or kinked.
    b. Clock the 90° fitting, as shown in **Figure 13** on the next page, then lock it in place by tightening the jam nut down against the catch can.



Figure 13 - Hoses Connected to the Catch Can

5. Use the two included zip ties to secure the intake manifold hose to the strut brace as shown in **Figure 14**.

Do not overtighten the zip ties. Overtightening can restrict air flow through the hose.

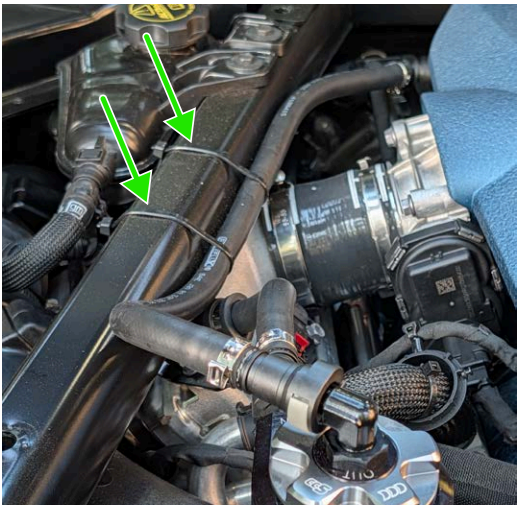


Figure 14 - Zip Ties Securing Intake Manifold Hose to Strut Brace

6. Attach the free end of the lock clip lanyard to the lock clip, then install the lock clip in the catch can.

COMPLETING THE INSTALL

1. Confirm all mounting hardware is correctly fastened.
2. Confirm all hoses are correctly connected.
3. Confirm the lock clip is installed in the catch can.
4. Start the vehicle and check for signs of a vacuum leak.
   a. Troubleshoot and check connections if necessary.
5. Lower the charge cooler tank into position and reinstall the two screws using a 10mm socket.
6. Reinstall the driver's side engine cover using the two T-40 Torx screws.
7. Close the rear hatch.

The completed installation will resemble **Figure 15**.



Figure 15 - Completed Installation

Installation is now complete.

Thank you for purchasing an Improved Racing product!