CCS OIL CATCH CAN KIT FOR GEN 6 CAMARO SS

PART NO. CCS-GM-103

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 260804

PARTS CHECK

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

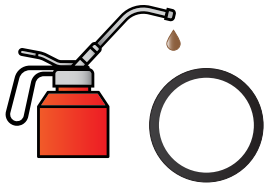
INSTALLATION INSTRUCTIONS

BEFORE YOU BEGIN

⚠ **WARNING: This product should only 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.



MOUNTING LOCATION ON ENGINE

- The bracket included with the kit installs onto the thermostat housing.
  - This is shown in **Figure 1**.
- Two extra thermostat housing studs are included.
  - These are GM part 11547383, listed in the Parts List.
- Some engines may not have these studs from the factory.
  - If your engine does not have the studs, install the included studs as shown in **Figure 1**.
  - Remove, replace and properly torque one screw/stud at a time.
- Improved Racing strongly recommends that our customers purchase a metal thermostat housing based on cracking problems Camaro owners have voiced on the forums.
  - Advanced Modern Performance, Brian Tooley Racing and Granatelli Motor Sports each offer this housing, and are brands Improved Racing recommends.

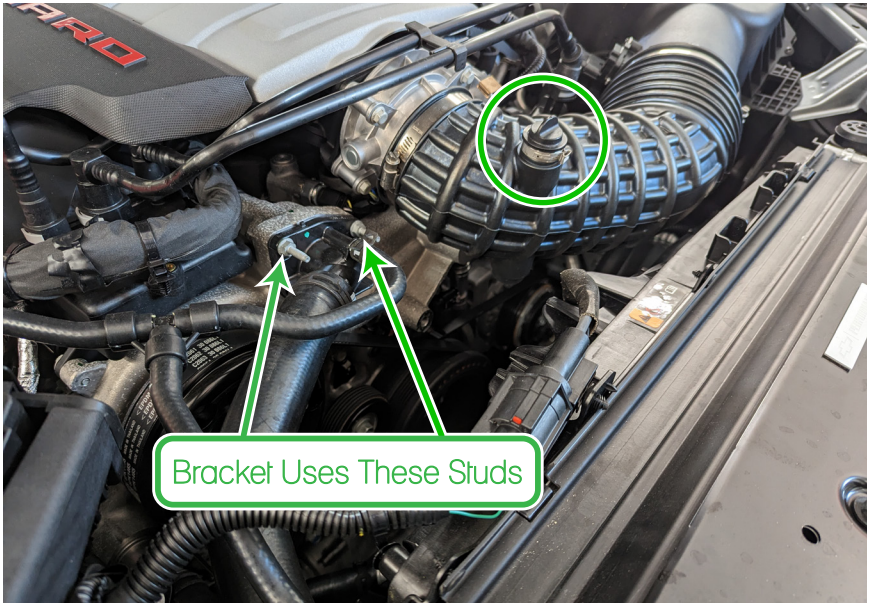


Figure 1 - Bracket Mounting & Plugged Intake Location

INTAKE-TO-CABIN SOUND PIPE

- When equipped, it is required to remove the sound pipe, shown in **Figure 2**, prior to the installation of this kit.

Figure 1 shows an example of plugging the intake.

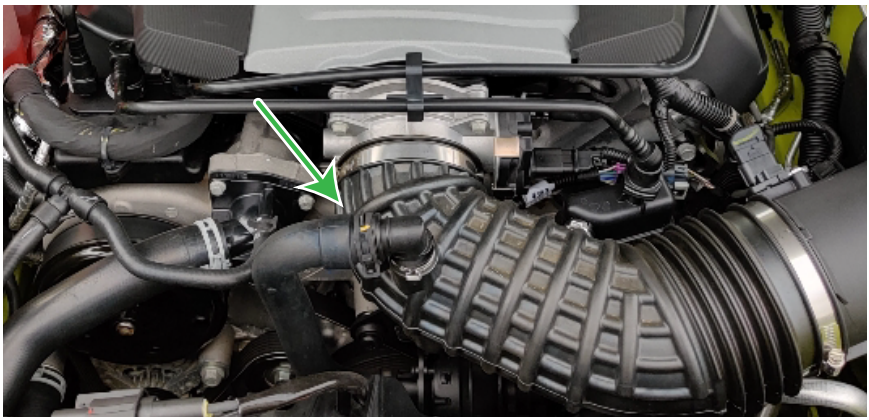


Figure 2 - Intake-to-Cabin Sound Pipe Location

- Purchase the KGM-200-A Intake to Cabin Sound Duct Delete Kit from Improved Racing here.
    - The kit includes plugs for the intake duct and firewall.

The KGM-200-A plug files are also free to download and 3D print at home here. Just source your own hose clamp for the intake duct.

PREPARE THE CAR

1. Open the hood to access the engine compartment.
2. Gently pull upward to remove the black plastic engine cover on the left side of the engine.
3. Remove the factory PCV tube by depressing the buttons on each fitting, shown removed in **Figure 3**.

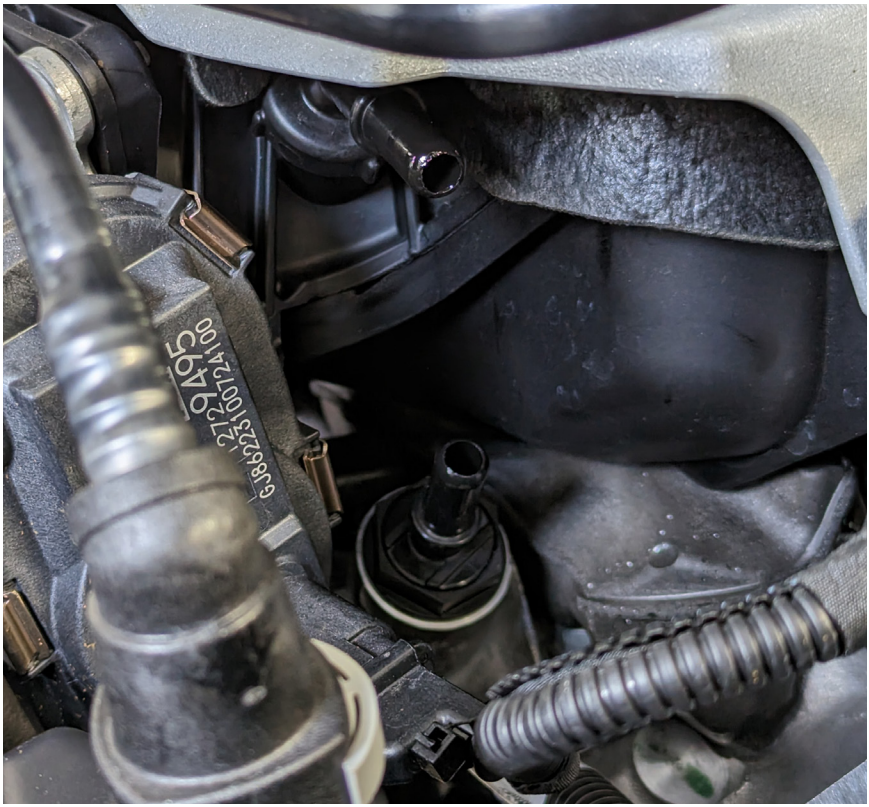


Figure 3 - Factory PCV Tube Removed

MOUNT THE BRACKET & CAN

1. Review the included CCS product manual.
2. Install the included GM studs when applicable, otherwise proceed.
   a. Torque to 100 lb-in (11 N-m).
3. Place a M6 washer onto each stud, followed by the bracket.
4. Hand tighten the M6 flange nuts onto the bracket.
5. Brace the stud nuts with a 10 mm wrench so that it does not tighten further, THEN tighten each flange nut using a deep 10 mm socket.
   a. Torque to 100 lb-in (11 N-m).
6. Connect one hose to the valley cover fitting and connect the other hose to the intake manifold.
7. Install the catch can as shown in **Figure 5**.
   a. The 90° adapter fitting is for the OUT port.
   b. The straight adapter fitting is for the IN port.
   c. Torque fittings between 13 to 16 lb-ft (17 to 22 N-m).
   d. Position the CCS in hole 14 of the bracket as shown in **Figure 4** and tighten the nut.
   e. Connect the valley cover hose to the IN port.
   f. Connect the intake manifold hose to the OUT port.

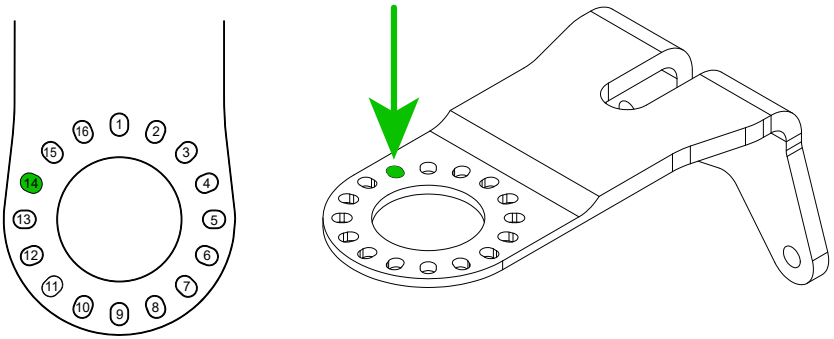


Figure 4 - Catch Can Bracket Position

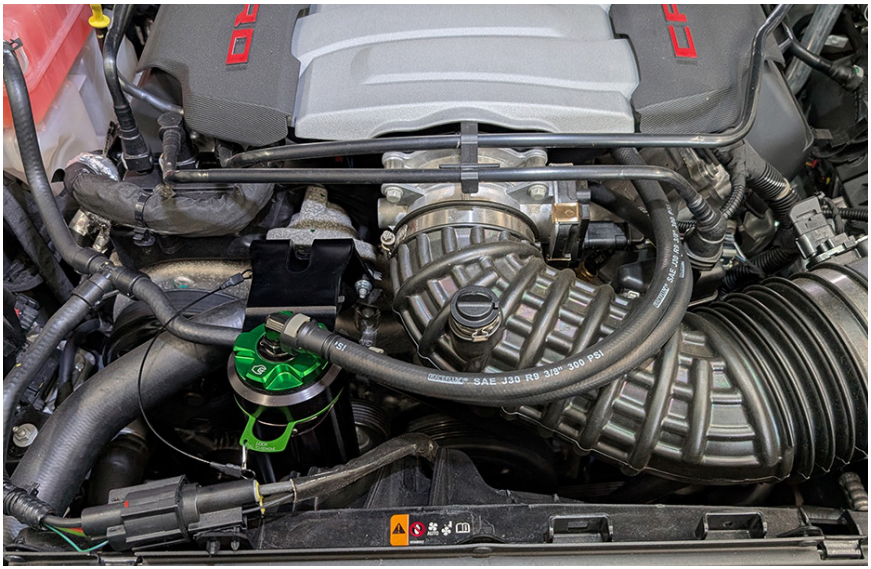


Figure 5 - Catch Can Installed

COMPLETE THE INSTALL

1. Confirm all mounting hardware is properly fastened.
2. Confirm all hoses are properly connected.
3. Reinstall the reservoir onto the catch can top.
4. Attach the safety lock clip to the lanyard and install onto the catch can.
5. Start the vehicle and check for signs of a vacuum leak.
   a. Troubleshoot and check connections if necessary.
6. 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!