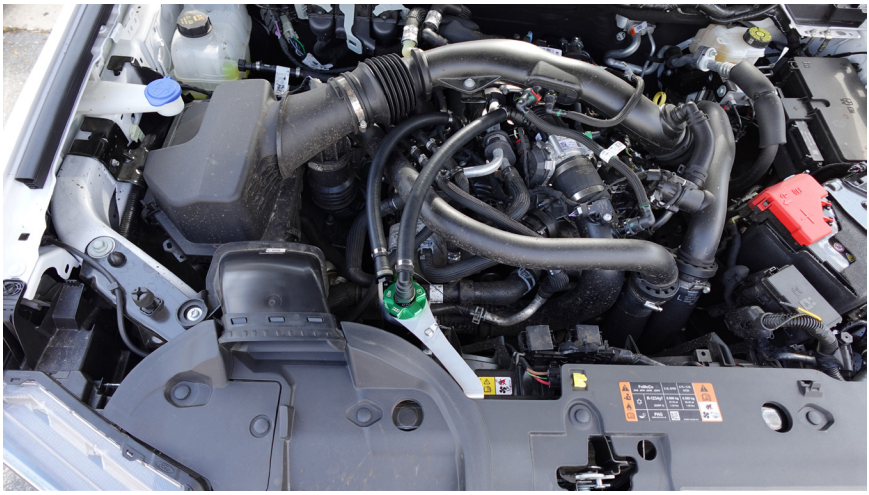
CCS OIL CATCH CAN KIT FOR FORD RANGER RAPTOR

PART NO. CCS-FR-107

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 260202

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.

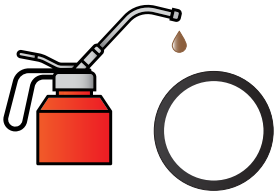
WARNING: Improper installation could result in severe engine damage.

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.



PREPARING THE CAR

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

1. Open the hood to access the engine compartment.
2. Find the tube on top of the engine, shown in Figure 1.

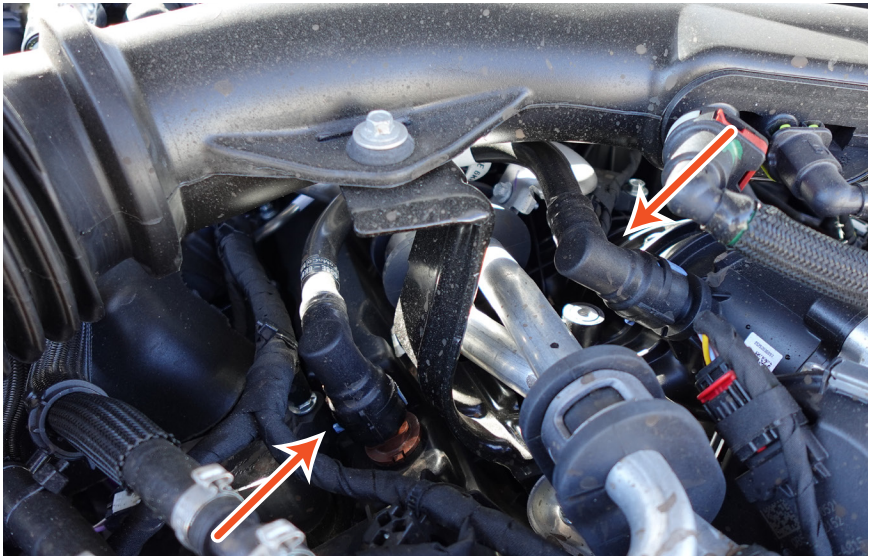


Figure 1 - PCV Tube Location on Engine

3. Remove the tube by lifting and rotating the tab, shown in Figure 2.

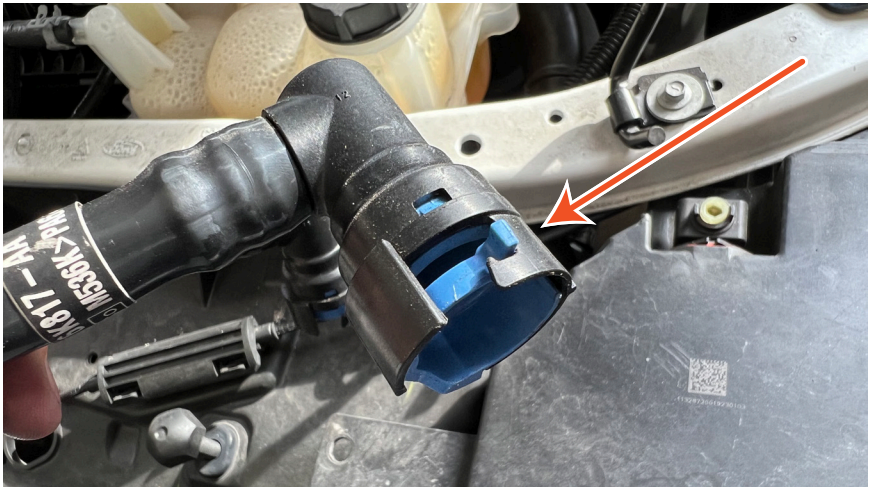


Figure 2 - Release Tab on Factory PCV Tube

4. Set the tube aside: This part will no longer be used.
5. Use a regular screwdriver or trim tool to release and remove the clips on the upper air guide, shown in Figure 3.

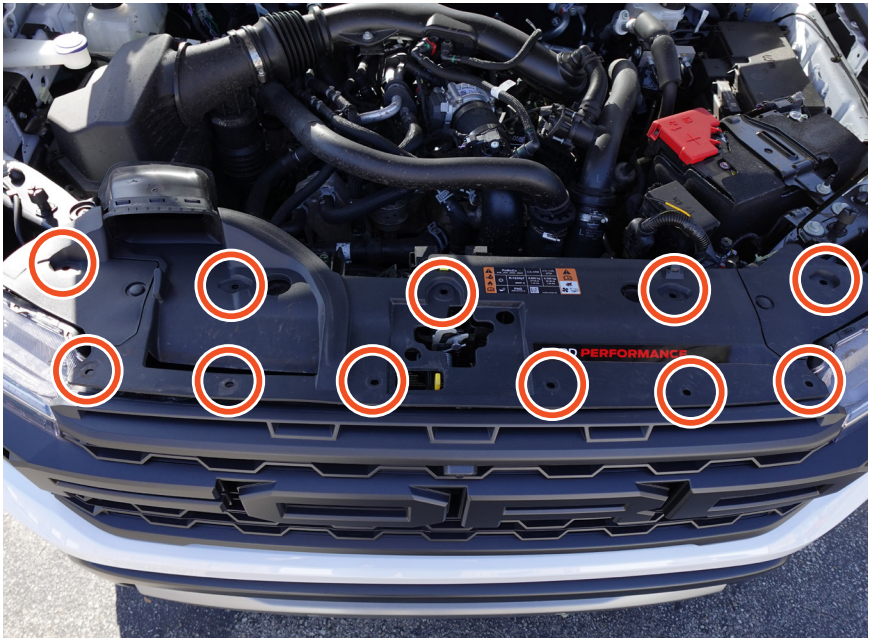


Figure 3 - Clip Locations on Upper Air Guide

6. Refer to Figure 4 and remove the upper air guide from the truck by:
   a. Lifting the air guide from this passenger side.
   b. Rotating the air guide out towards the driver side.

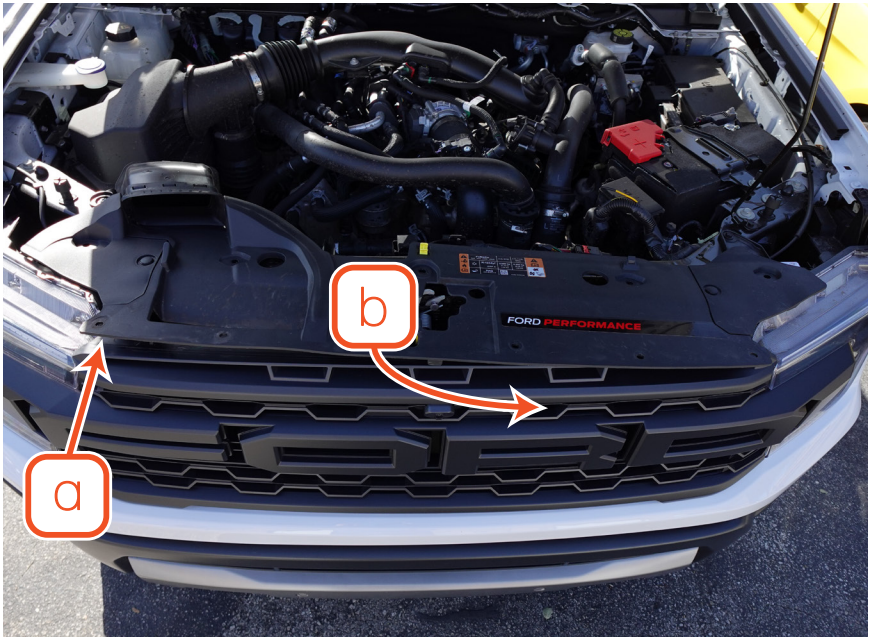


Figure 4 - Removing the Upper Air Guide

7. Use a 10 mm tool to remove the screw shown in Figure 5.

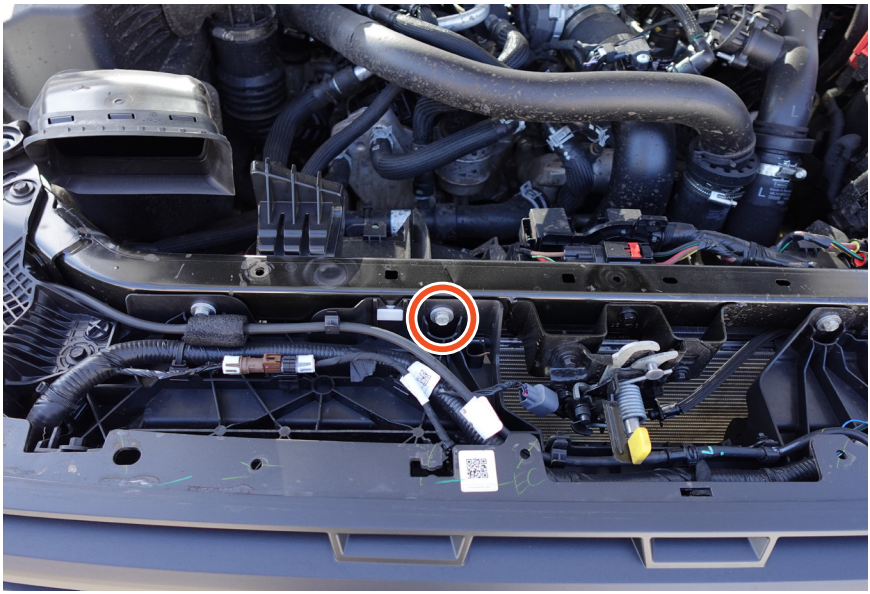


Figure 5 - Screw to Remove

MOUNT THE CATCH CAN BRACKET

1. Remove the washer from the screw in the last section and install the washer onto one of the screws included with this kit.
2. Use a 4 mm tool to reinstall the parts as shown in Figure 6.

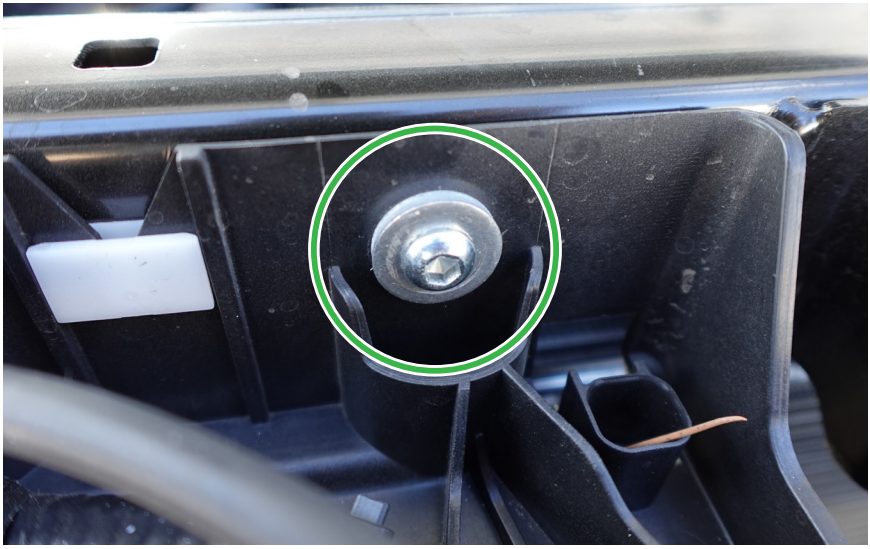


Figure 6 - New Screw & Washer Installed

3. Install the included clip nut onto the fan shroud as shown in Figure 7.

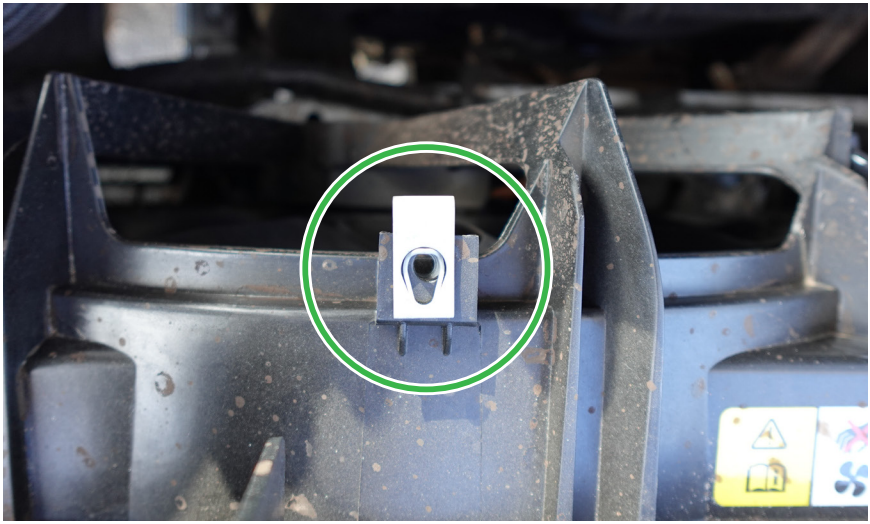


Figure 7 - Clip Nut Installed on Fan Shroud

4. Install the bracket using the spacer, remaining screw and flange nut included with the kit as shown in Figure 8.

- Connect the safety lanyard included with the kit as shown in Figure 8.

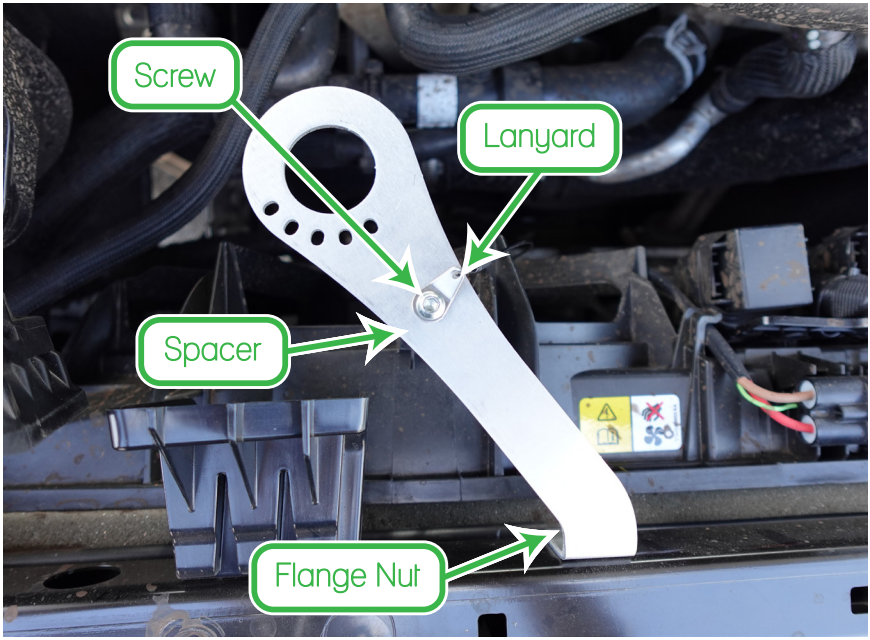


Figure 8 - Bracket Installed onto Truck

5. Use a 4 mm hex tool to tighten the long screw on the bracket.

- Use a 13 mm wrench to hold the clip nut as shown in Figure 9.
- The clip nut has distorted threads to prevent loosening.



Figure 9 - 13 mm Wrench Holding Clip Nut

6. Use a 10 mm tool to torque the flange nut to 55 in-lb (6.2 N-m).

MOUNT THE CATCH CAN

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. Remove the nut and reservoir from the catch can.
4. Insert the catch can top through the large hole in the mounting bracket.
5. Position the pin into the bracket hole shown in Figure 10.



Figure 10 - Correct Bracket Hole for Pin on Top of Catch Can

6. Thread the nut onto the catch can and tighten with a 16 mm ($^5/_8$") wrench.

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

CONNECTING THE LINES

1. Connect the lines according to Figure 11.

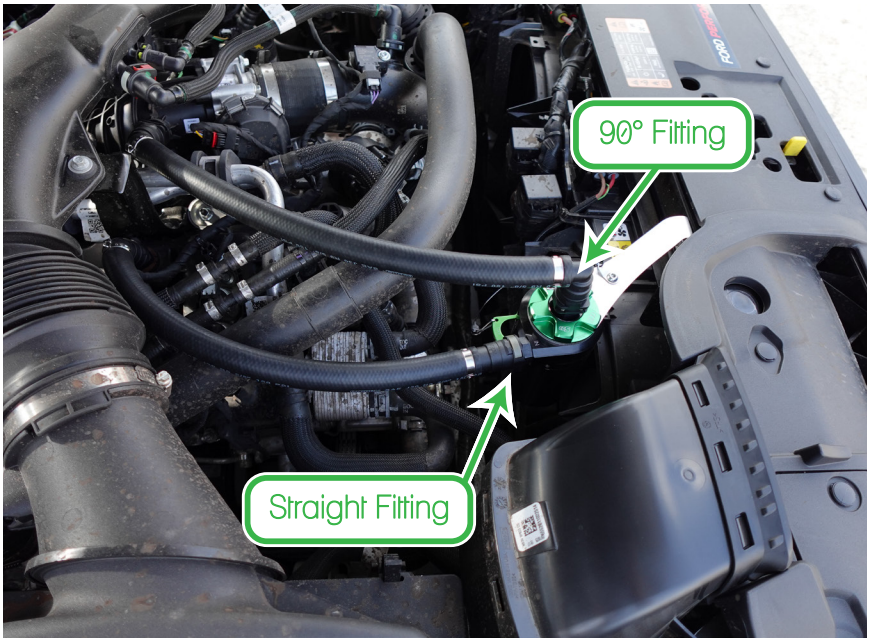


Figure 11 - Hoses Connected to Catch Can & Engine

COMPLETING THE INSTALL

1. Confirm all mounting hardware is properly fastened.
2. Reinstall the upper air guide and all clips.
3. Confirm all hoses are properly connected.
4. Reinstall the reservoir onto the catch can top.
5. Attach the safety lock clip to the lanyard and install onto the catch can.
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!