



2015-2023 (LD) DODGE CHALLENGER & CHARGER 6.2L HEMI OIL CATCH CAN KIT

PART NO. CCS-CH-100

MADE IN USA



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

For contact information, visit www.improvedracing.com
Copyright © 2008-2023 Improved Racing Products, LLC. All rights reserved.




APPLICATIONS

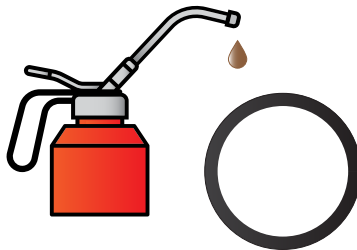
- 2015-2023 Dodge Charger SRT Hellcat and Hellcat Redeye
- 2015-2023 Dodge Challenger SRT Hellcat, Hellcat Redeye, Demon, and Super stock

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-30	Catch Can Bracket
4	1	HSC-6000	Drain Plug
5	1	CCS-CH-100-01	Chassis Tab Mounting Bracket
6	1	HTS-1002	M6x1.00 Thumb Screw
7	1	HSC-1072	M10x1.50 Mounting Screw for Chassis Bracket
8	2	HWA-6010	Silicone Washers for Paint Protection
9	2	OQ-090-06-10	90° Catch Can Adapter Fitting
10	1	CCS-CH-100-50	Hose: Engine Outlet to Can Inlet
11	1	CCS-CH-100-51	Hose: Can Outlet to Intake
12	1	CCS-41-01	Catch Can Lock Clip
13	1	HSC-6001	Drain Plug to -6 SAE ORB

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 CATCH CAN

1. Install the drain plug with the included O-ring (Item #4) into the bottom of the reservoir, if not using a remote drain kit.
2. Torque the drain plug to 20 lb-ft (27 N-m).
3. Position the flat bracket onto the catch can as shown in Figure 1.

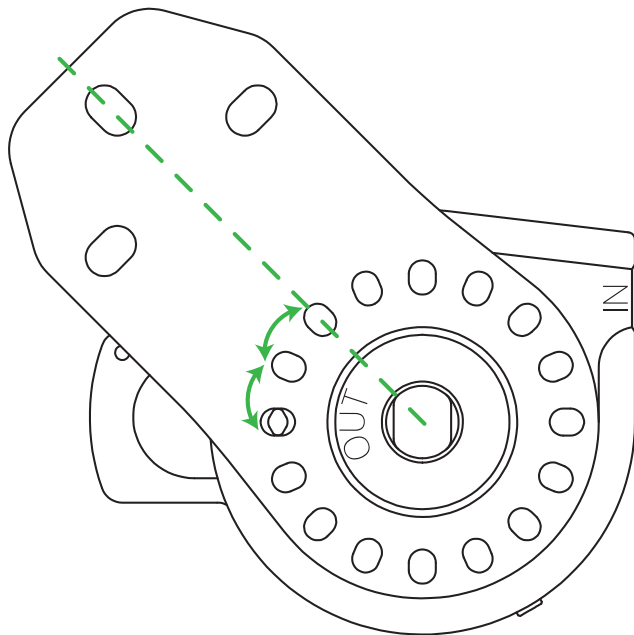


Figure 1 - Preparing the Can Bracket

4. Thread the green nut onto the catch can and tighten.
- 💡 When hand tightening, smear a dab of anti-seize in the threads of the green nut. This guarantees the nut is properly tightened.
5. Install the lock clip (refer to general CCS manual for more).
6. Thread the 90° adapter fittings into the catch can:
 - a. Spin the nut until flush with the silver washer.
 - b. Position the fittings as shown in Figure 2.
 - c. Torque the nuts between 13 to 16 lb-ft (17 to 22 N-m).

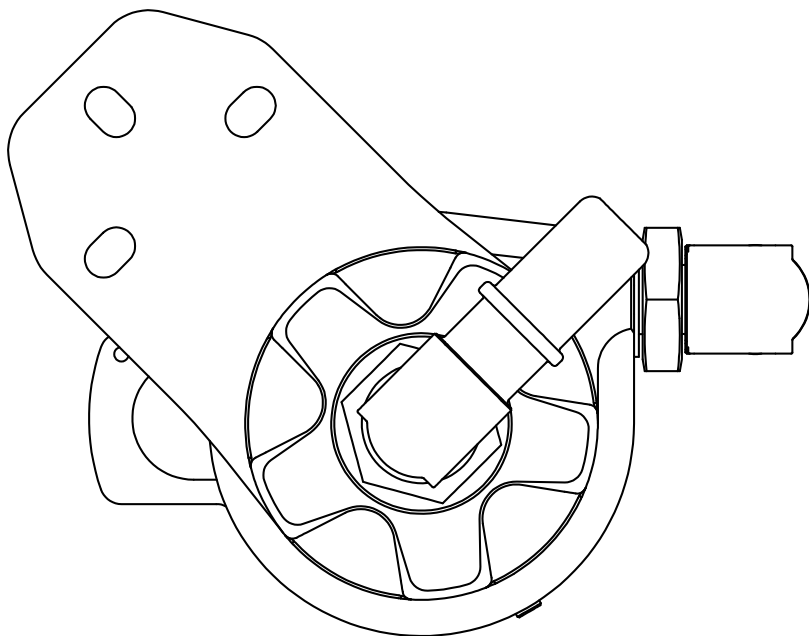


Figure 2 - Preparing the Adapter Fittings

7. If applicable, prepare the optional drain kit:
 - a. Install the drain adapter fitting with the included O-ring into the bottom of the can (Item #13).
 - b. Torque the drain adapter fitting to 20 lb-ft (27 N-m).
 - c. Install a -6 adapter fitting into the previously installed adapter fitting.
 - d. Slide one of the included hose clamps over the catch can drain hose and connect it to the drain fitting.
 - e. Secure the hose clamp.
- 💡 The ideal hose length is approximately 21 in (53 cm). Trim The hose now or after the catch can installation.

REMOVING THE FACTORY PCV HOSE

1. Remove the factory PCV hose highlighted in Figure 3.
 - a. Depress the button on the intake manifold fitting and remove the fitting from the intake manifold.
 - b. Lift the front of the plastic engine cover to gain better access to the factory PCV hose.
 - c. Rotate the hose and locate the release lever on the valve cover fitting.
 - d. Pull the lever clockwise then slide up to remove the fitting from the valve cover.



Figure 3 - Removing the Factory PCV Hose

INSTALLING THE CATCH CAN


1. Loosely install the tab bracket (Item #5) onto the chassis tab shown in Figure 4 using the included hardware.
-  The included silicone washers are placed between the bracket, chassis tab and flange screw to protect the paint.



Figure 4 - Mounting the Tab Bracket Near the Windshield Washer Fluid Reservoir

2. Route the 45° fitting on the inlet hose between the two black boxes in the engine bay shown in Figure 5.

💡 Leave the hose disconnected from the valve cover.

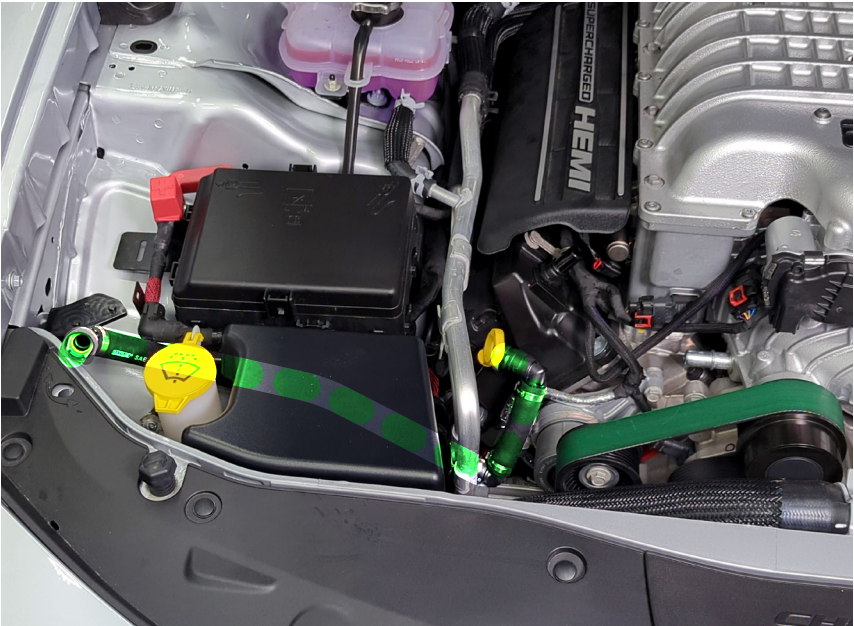


Figure 5 - Inlet Hose Routing: Leave Disconnected

3. If using our optional drain kit, insert the drain hose through the opening next to the windshield washer fluid reservoir as shown in Figure 6.



Figure 6 - Drain Hose Routing

4. Install the catch can onto the tab bracket as shown in Figure 7:



Tight Space! Use caution to avoid scratching parts.

- a. Before securing the assembly to the tab bracket, connect the 45° fitting on the inlet hose to the catch can “IN” port.
- b. Lower and align the flat bracket slots with the pins on the tab bracket.
- c. Temporarily tighten the assembly using the included thumb screw.
- d. Position the assembly to avoid rubbing or contact on the vehicle.
- e. Use a 15 mm tool and tighten the tab bracket until the silicone washers are lightly compressed.



Do not overtighten.



Figure 7 - Installing the CCS to the Chassis Tab Bracket

5. Connect the hose with the two 45° fittings to the catch can “OUT” port and intake manifold as shown in Figure 8.
6. Connect the inlet hose to the valve cover as shown in Figure 8.

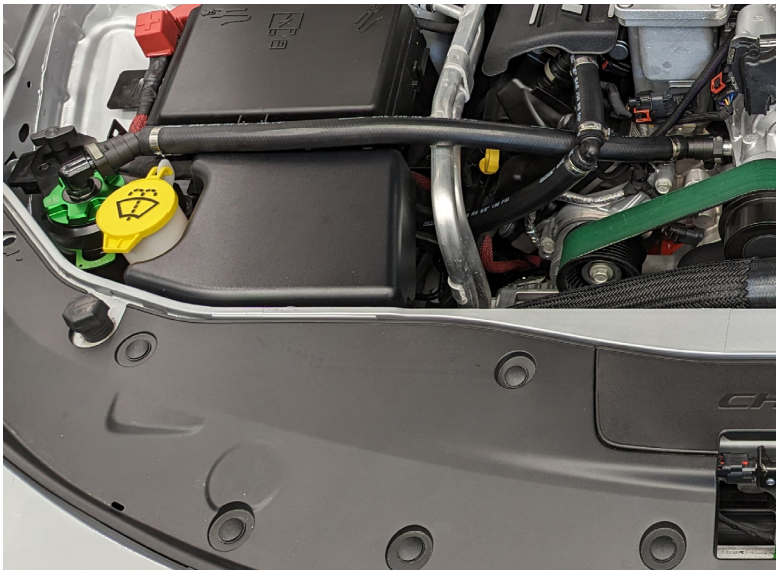


Figure 8 - Connecting the Hoses

COMPLETING OPTIONAL DRAIN KIT INSTALLATION

1. Safely lift the front of the vehicle.
2. Referring to Figure 9, remove the two plastic splash guards:
 - a. Use a 10mm tool to remove four screws (orange arrows), then remove the rear splash guard.
 - b. Use a 7mm tool to remove ten screws (green arrows).
 - c. Use a plastic clip prying tool to remove ten push-clips shown (white arrows), then remove the front splash guard.

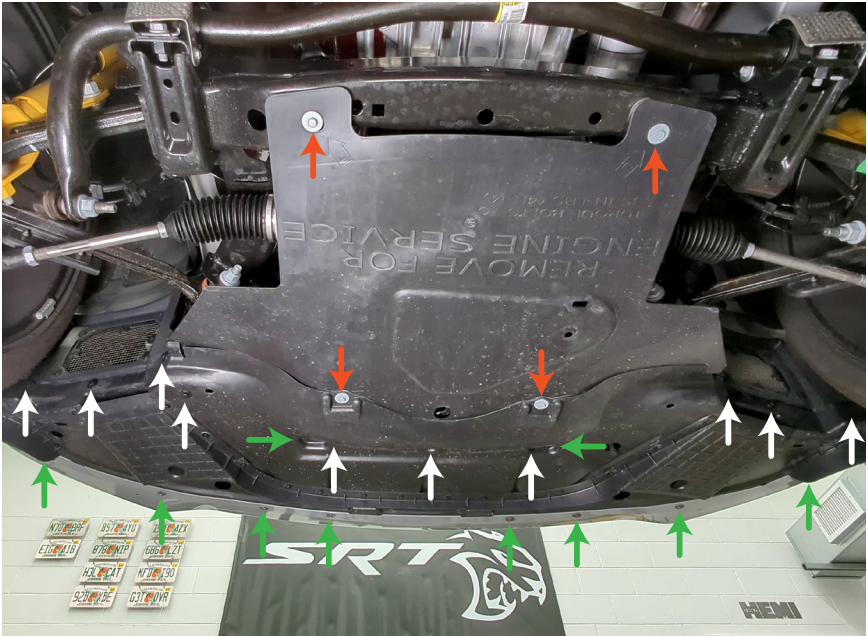


Figure 9 - Splash Guard Hardware Removal

3. Find the catch can drain hose and position it next to the radiator drain hose as shown in Figure 10.
- 💡 The catch can drain hose passes through the radiator drain hole in the splash guard for easy servicing.
 - 💡 Adjust/trim the catch can drain hose so the ball-valve is on the inter-cooler abrasion sleeve as shown in Figure 10.

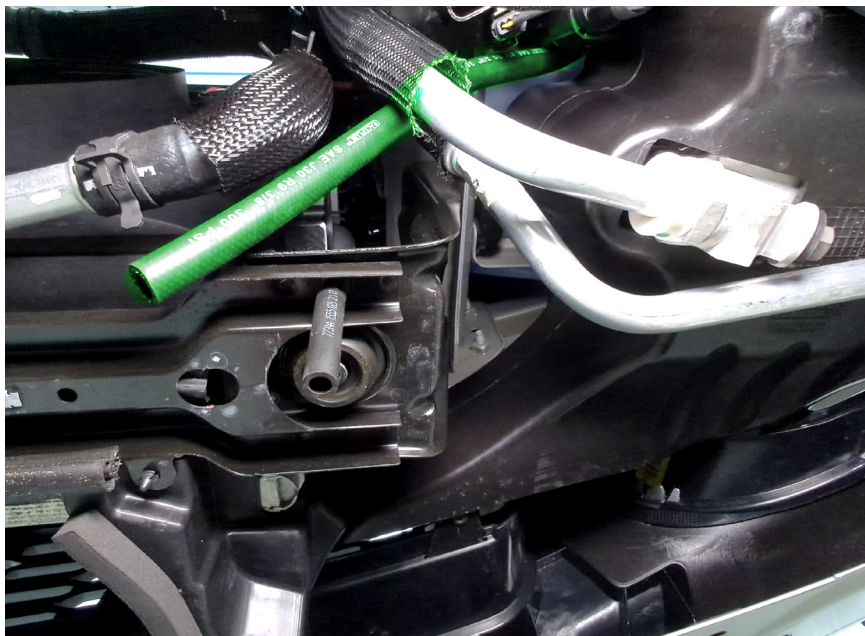


Figure 10 - Finding the Drain Hose

4. Slide one of the included hose clamps over the catch can drain hose and connect the ball-valve to the drain hose.
5. Secure the hose clamp.
6. Using the extra hose, cut a piece to a length of 4.5 in (114 mm).
7. Connect the other side of the ball-valve to the short section of hose.
8. Secure the hose clamp.
- 💡 This short length of hose passes through the hole in the splash guard.
9. Use two zip-ties to secure the ball-valve to the intercooler hose as shown in Figure 11.
10. Reinstall the splash guards by referring to Figure 9.
- 💡 Confirm the drain hose inserts through the radiator drain hose hole.

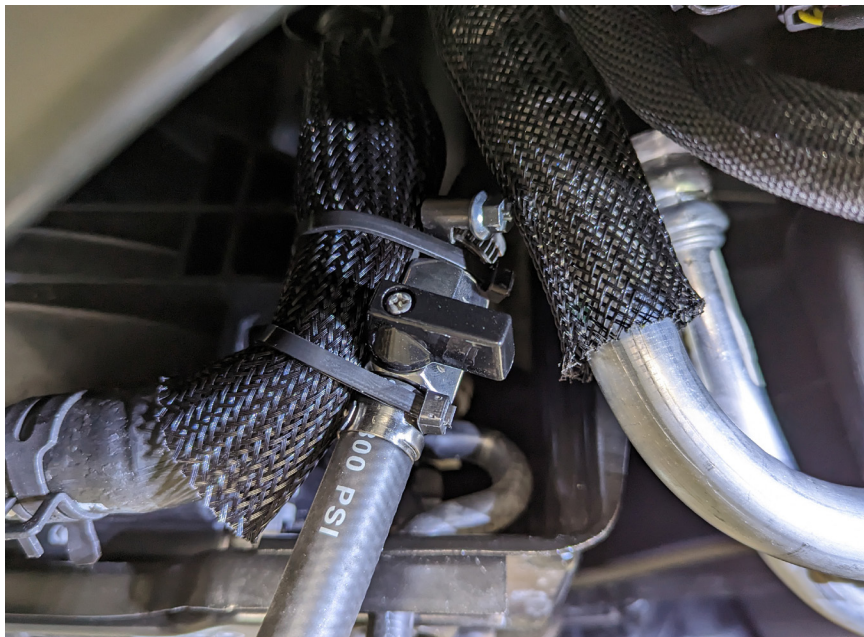


Figure 11 - Securing the Ball Valve


11. Shown in Figure 12, the ball-valve is now accessible during oil changes by removing only the oil pan splash guard.




Figure 12 - Drain Line Passing Thru Splash Guard

COMPLETING THE INSTALL


1. Confirm all mounting hardware is properly fastened.
2. Confirm all hoses are properly connected.
3. Replace the engine cover if necessary.
4. Start the vehicle and check for signs of a vacuum leak.
 - a. Troubleshoot and check connections if necessary.

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



WHEN TO DRAIN YOUR CATCH CAN


- The recommended draining interval for this catch can is after each oil change or track event.
-  Fluid will only start to appear in the reservoir after the filter is fully saturated, which occurs after approximately 200 miles of street driving.

DRAINING THE CATCH CAN WITHOUT A DRAIN LINE

-  Draining the catch can without a drain line only takes about 30 seconds.
1. Remove the thumb screw.
 2. Disconnect the “OUT” fitting.
 3. Carefully lift the catch can and disconnect the “IN” fitting.
 4. Remove the reservoir and drain.
 5. Reinstallation is the reverse of removal.

DRAINING THE CATCH CAN WITH A DRAIN LINE KIT

-  Drain the reservoir when the engine bay is warm to speed up the process.
1. Safely lift the front of the vehicle.
 2. Use a 10mm tool to remove the plastic splash guard screws marked with orange arrows in Figure 9.
-  If necessary, remove a push-clip from the front splash guard for better access.
3. Open the valve and drain the reservoir into an oil drain pan.

4. Close the valve once draining is complete.
5. Spray degreaser into the hose to fully clean the hose.
-  Performing this step prevents oil stains on garage floors and driveways.
6. Reinstall the oil pan splash guard.