

INSTALLATION INSTRUCTIONS

CATCH CAN KIT

2017+ Honda Civic Type-R

Document: 19-0193

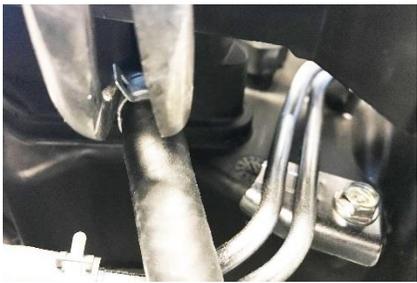
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20-0424 PCV Catch Can Installation: Follow Steps 1-24
20-0425 CCV Catch Can Installation: Follow Steps 25-52
20-0426 Dual Catch Can Installation: Follow Steps 1-52

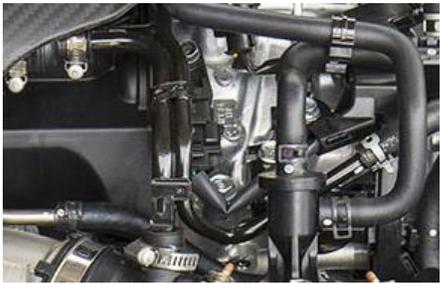
STEP	TOOLS NEEDED	INSTRUCTIONS	PHOTO	
1	10mm socket	<p>INSTALLATION: 20-0424 CATCH CAN KIT, PCV, CIVIC TYPE-R</p> <p>Prop the hood and disconnect the battery.</p> <p>Unscrew the five M6 engine cover bolts and remove the engine cover from the vehicle.</p>		
2		<p>To release the plastic wiring harness carrier on the valve cover, squeeze the locking tabs.</p>		
3		<p>Dislodge the plastic wiring harness carrier and pull up and away from the valve cover.</p>		
4		<p>Pull the wiring harness out of the valve cover retainers.</p> <p>Allowing the wiring harness to freely move will permit additional space for working with the PCV system.</p>		

5	Pliers	When pulling the plastic wiring harness carrier out of the way, the OEM PCV hose will be clearly visible, as shown. NOTE: The PCV valve is integrated into the valve cover.	
		Loosen the OEM spring clamps (shown) on both sides of the hose. Pull the hose off each barb and remove from the vehicle.	
		The OEM spring clamps and PCV hose will NOT be reused.	
6	10mm Socket	There are two M6 bolts that secure the fuel line bracket to the firewall. Because these bolts are hidden, the fuel line assembly will first need to be removed.	
		Unscrew the two exposed M6 bolts that secure the metal cover to the fuel line bracket. Temporarily remove the metal fuel line cover from the vehicle.	
7	Flat Blade	To release the fuel line from the bracket, push the plastic mounting tab lock downwards. When disengaged, the plastic tab will rotate forward and down, as shown.	
8		Unclip the OEM fuel line, as shown.	
9		To dislodge, pull the OEM fuel line away from the firewall. This will expose the two M6 bolts that secure the fuel line bracket to the firewall.	
10	10mm Socket	Unscrew the two M6 bolts that hold the fuel line bracket to the firewall. Remove the bracket (shown) from the vehicle.	

11	Thread locker	Find the catch can and the four M5 countersink screws provided in the kit. Apply a medium-strength thread locker to the threads. Install the Radium Engineering mount to the catch can, as shown.	
	3mm Allen Wrench		
12	1-1/8" Socket	Orientate and tighten the 6AN banjo fittings to the catch can ports so that the AN fittings are pointing opposite the mounting bracket. Use the torque specification shown on the head of the green bolts. NOTE: Be sure the black banjo fittings are oriented so the AN male portion is at the highest point. The hose end will not clear the catch can if the banjo fitting is installed upside.	
	Torque Wrench		
13		Place the Radium Engineering mount behind the OEM fuel line bracket. Line up the 2 mounting holes and place the OEM M6 bolts through, as shown.	
14	10mm Socket	Line up the 2 OEM bolts to the threaded bosses on the firewall. While holding the mount in place, reinstall the OEM fuel line bracket.	
15		Resecure the OEM fuel line like factory.	
16	10mm Socket	Reinstall the metal fuel line cover using the two OEM M6 bolts.	

17	Oil Lubrication	<p>Find the 2 ft long 5/16" PCV hose included in the kit. Apply a liberal amount of oil to lubricate the PushLok barbs.</p> <p>When installing the PushLok hose ends into each end of the hose, a large amount of force will be required. First install the fitting into a vice. In one motion, firmly push the hose down over the barbs using your body weight. NOTE: hose clamps are NOT required for PushLok hose ends.</p> <p>Next, cut the hose at the mid point, creating two equal-length hoses.</p>	
	Hose Cutter		
	Vice		
18	Pliers	<p>Slide the included spring clamps to the new hoses on the ends that were just created.</p>	
19		<p>Loosely install the hose ends to the catch can fittings. Route the hoses so they are positioned downwards, as shown.</p> <p>Route the catch can top port hose towards the valve cover barb.</p> <p>Route the catch can side port hose down to the intake manifold barb.</p>	
20	Hose Cutter	<p>Cut each hose to length. Below are only examples. Test before cutting. Enough slack should be allowed for normal engine movement.</p> <p>Catch Can Top Port Hose to Valve Cover: 11 inches (279 mm)</p> <p>Catch Can Side Port Hose to Intake Manifold: 8 inches (203 mm)</p>	
21	Pliers	<p>Slide the catch can side port hose onto the intake manifold barb. Install the spring clamp.</p>	
22	Pliers	<p>Slide the catch can top port hose onto the valve cover barb. Install the spring clamp.</p>	

23	11/16" Wrench	Position the hose ends and tighten with a non-marring aluminum wrench.	
		PCV CATCH CAN INSTALLATION COMPLETE	
		<i>Servicing:</i> Check dipstick regularly. All vehicles are unique. Unscrew bottom portion of catch can and properly dispose as needed. Do NOT reinsert contents back into the engine. If needed, stainless steel condensing media can be cleaned with a degreaser.	
24	10mm Socket	INSTALLATION: 20-0425 CATCH CAN KIT, CCV, CIVIC TYPE-R	
		Prop the hood and disconnect the battery.	
		Unscrew the five M6 engine cover bolts and remove the engine cover from the vehicle.	
25	3mm Allen Wrench	Find the catch can and the four M5 countersink screws provided in the kit.	
	Thread locker	Apply a medium-strength thread locker to the threads. Install the Radium Engineering mount to the catch can, as shown.	
26		Orientate and <u>hand</u> tighten the 6AN banjo fittings to the crankcase vent (CCV) catch can ports, as shown.	
		NOTE: Be sure the black banjo fittings are oriented so that the AN male portion is at the highest point. The hose end will not clear the catch can if the banjo fitting is installed upside.	
27	19mm Socket	Remove the 2 motor mounts bolts shown.	
28	19mm Socket	Place the catch can assembly onto the motor mount as shown. Retighten the OEM bolts to 85-95 ft-lbs.	
		NOTE: If an aftermarket motor mount is used, minor modifications may be required.	

29		Removing the CCV breather line will differ depending on the air intake system that is installed in the vehicle.	
		Honda OEM intakes (shown), and some aftermarket intakes, use the OEM hard crankcase vent tube. NOTE: this OEM hard tube is attached to a coolant tube as well.	
		Disengage the CCV hard tube from the rubber valve cover reducer and the intake coupler.	
30		Other aftermarket intake systems bypass the OEM CCV portion of the hard tube and leave the coolant tube connected. These systems utilize a male port on the intake tube (shown red) and include a rubber CCV hose and a male to male coupler (shown white).	
		Disengage and remove the rubber CCV hose and male to male coupler from the engine.	
31		Remove the OEM tamper-proof worm drive clamps (with the long tails) from each end of the CCV hard tube.	
		NOTE: There are SMALL spring clamps and 2 LARGE spring clamps included in the kit. These 2 OEM tamper-proof worm drive clamps will be replaced by the LARGE spring clamps in later steps.	
32	Pliers	The coolant portion of the OEM hard tube will also be bypassed.	
		Find the heater hose supplied in the kit. NOTE: do not confuse the heater hose with the PCV hose included in the kit. Install one of the provided Radium spring clamps near the end of the hose.	
		Next, follow the OEM hose towards the front of the vehicle to find the end. As shown, loosen and slide the OEM spring clamp away from the connection. Pull the OEM rubber hose off the barb and quickly install the supplied heater hose. Some coolant will spill. Be prepared with a rag.	
33	Pliers	Install the Radium spring clamp to finish the connection.	
34	Pliers	As a more difficult but cleaner option, the new heater hose can bypass the connection in the following steps and can route directly to the throttle body barb (shown). However, the battery and compressor pipe will need to be removed and more coolant will be lost.	
		For an easier install, proceed with the following steps.	

35	Pliers	On top of the engine, loosen and slide the OEM spring clamp away from the connection on the other side of the coolant hard tube.	
		Pull the OEM rubber hose off the coolant hard tube. Some coolant will spill. Be prepared with a rag.	
36		Permanently remove the OEM hard tube assembly (shown) from the vehicle. This will NOT be reused.	
37	Oil Lubrication	Lubricate the upper OEM coolant hose and the included stainless steel barb to barb coupler. Fully insert the barbed coupler to the hose. This will be tight. Secure using the supplied spring clamp, as shown.	
	Pliers		
38		Run the heater hose provided in the kit upwards and secure it to the OEM clip, as shown. Snake the hose around the nearby components and run it towards the upper OEM coolant hose.	
39	Hose Cutter	Cut the new heater hose to length.	
40	Oil Lubrication	Lubricate the Radium heater hose and the stainless steel barb to barb coupler. Fully insert the hose to the barbed coupler. This will be tight. Secure using the supplied spring clamp, as shown.	
	Pliers		

41		Organize all of the hose routing. Make sure nothing is overly-stressed or getting chaffed.	
42	10mm Socket	Remove the two M6 bolts that secure the OEM coolant hard tube to the front cast aluminum intake pipe. These bolts will NOT be reused.	
43	5mm Allen Wrench	As shown, install the two black aluminum clamps with bolts and the 2 hard tubes included in the kit.	
44		Find the two PushLok hose ends provided in the kit. Hand tighten the 45 degree hose to the catch can top port fitting. Hand tighten the straight hose end to the catch can side port fitting.	
45		Near the catch can, temporarily pull out the rubber vacuum tubing from the 2 OEM clips shown.	
46		To provide clearance for the catch can lines, gently bend the steel vacuum tube shown for added clearance. Try to line it up with the vacuum tube next to it. Reinsert the rubber vacuum tubing into the OEM clips.	

47	Oil Lubrication	<p>Find the 3 ft long PCV hose included in the kit. Lubricate the 45 degree PushLok hose end barbs. When installing the PushLok hose end, a large amount of force will be required. First install the fitting into a vice. In one motion, firmly push the hose down over the barbs using your body weight. NOTE: hose clamps are NOT required for PushLok hose ends.</p> <p>Cut Length: Catch Can Top Port to Rear Tube: 8.5 inches (216 mm). NOTE: The measurement above is only an example. Test before cutting.</p> <p>Lubricate the hard tube and secure using the provided spring clamp.</p>	
	Hose Cutter		
	Pliers		
	Vice		
48	Oil Lubrication	<p>Lubricate the straight PushLok hose end barbs. When installing the PushLok hose end, a large amount of force will be required. In one motion, firmly push the hose down over the barbs using your body weight. NOTE: hose clamps are NOT required for PushLok hose ends</p> <p>Cut Length: Catch Can Side Port to Front Tube: 9.5 inches (241 mm). NOTE: The measurement above is only an example. Test before cutting.</p> <p>Lubricate the hard tube barb and secure using the provided spring clamp, as shown.</p>	
	Hose Cutter		
	Pliers		
49	Oil Lubrication	<p>Lubricate one of the plastic 90 degree elbows and fully install to the end of the rubber PCV hose included in the kit. Secure using the included spring clamp. Insert the plastic 90 degree elbow into the OEM reducing coupler and secure with the LARGE spring clamp included in the kit.</p> <p>Cut Length: Valve Cover to Rear Hard Tube: 5.7 inches (145 mm) NOTE: The measurement above is only an example. Test before cutting.</p> <p>Lubricate the hard tube barb and secure using the provided spring clamp, as shown.</p>	
	Hose Cutter		
	Pliers		
50	Oil Lubrication	<p>This step will be determined by the air intake system installed to the vehicle. Use the second included plastic 90 degree elbow for OEM style connections. Or connect the hose directly, as pictured, for some aftermarket air intake systems.</p> <p>Secure everything using the included spring clamps. Use the last LARGE spring clamp if the plastic 90 degree elbow is used.</p>	
	Hose Cutter		
	Pliers		
51	1-1/8" Wrench	<p>Position the banjo fittings and tighten.</p> <p>NOTES:</p> <ol style="list-style-type: none"> 1. Allow enough hose slack for the engine to freely move when loaded. 2. An aluminum wrench will prevent surface finish marring. 	
52	11/16" Wrench	<p>Position the hose end fittings and tighten with a non-marring aluminum wrench.</p> <p>CRANKCASE CATCH CAN INSTALLATION COMPLETE</p> <p><i>Servicing:</i> Check dipstick regularly. All vehicles are unique. Unscrew bottom portion of catch can and properly dispose as needed. Do NOT reinsert contents back into the engine. If needed, stainless steel condensing media can be cleaned with degreaser.</p>	