

INSTALLATION INSTRUCTIONS

CATCH CAN KIT

2017+ Honda Civic Type-R

Kit# 20-0424-FL, 20-0825-FL, 20-0826-FL

Document: 19-0393







Support: info@radiumauto.com






20-0424-FL PCV Catch Can Installation: Follow Steps 1-23
 20-0825-FL CCV Catch Can Installation: Follow Steps 24-60
 20-0826-FL Dual Catch Can Installation: Follow Steps 1-60










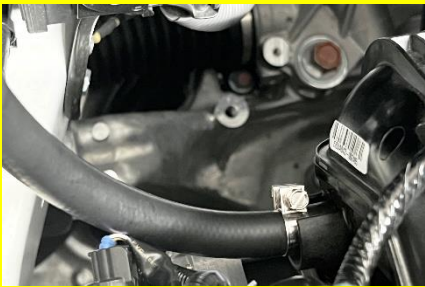




20-0826-FL	
Item Description	Qty
Bracket, PCV, 2017+ CTR	1 ea
Bracket, Crankcase, 2017+ CTR	1 ea
Catch Can, Fluid Lock 2, Preassembled	2 ea
3/8 PCV/FUEL HOSE	5 ft
3/8 PCV/FUEL HOSE	2 ft
5/16 HEATER HOSE	2 ft
THERMAL INSULATING SLEEVE, 18MM ID	1 ft
PUSHLOK HOSE END, 6AN 90DEG	2 ea
EFI HOSE CLAMP, #15, SS	2 ea
10AN ORB SWIVEL BANJO TO 6AN MALE	2 ea
CATCH CAN SERVICE INTERVAL STICKER	1 ea
PUSHLOK HOSE END, 6AN STRAIGHT	1 ea
PUSHLOK HOSE END, 6AN 45DEG	1 ea
PUSHLOK HOSE END, 6AN 90DEG	1 ea
CCV Hard Tube, 17-21 CTR	2 ea
2-Way Hose Separator Clamp, Top	2 ea
2-Way Separator Clamp, Bottom	2 ea
SPRING CLAMP, 3/8" HOSE	9 ea
SPRING CLAMP, 1/2" HOSE	2 ea
CATCH CAN SERVICE INTERVAL STICKER	1 ea
10AN ORB SWIVEL BANJO TO 6AN MALE	2 ea
Plastic Barbed Tube Fittings, 90deg	2 ea
Barbed Tube Fitting, Straight, 3/8" Tube	1 ea
SHCS, M6 x 1.0, 25mm Long, SS	2 ea







STEP	TOOLS NEEDED	INSTRUCTIONS	PHOTO
1	10mm socket	20-0424-FL CATCH CAN KIT, PCV, 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.	

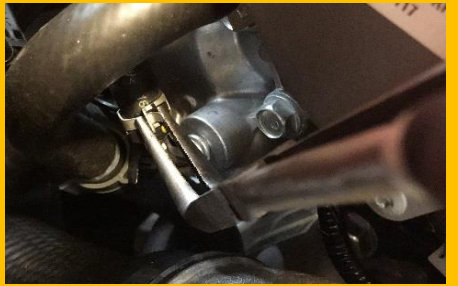





2		<u>20-0424-FL CATCH CAN KIT, PCV, CIVIC TYPE-R</u>	
3		<u>20-0424-FL CATCH CAN KIT, PCV, CIVIC TYPE-R</u>	
4		<u>20-0424-FL CATCH CAN KIT, PCV, CIVIC TYPE-R</u>	
5	Pliers	<u>20-0424-FL CATCH CAN KIT, PCV, CIVIC TYPE-R</u>	
6	10mm Socket	<u>20-0424-FL CATCH CAN KIT, PCV, CIVIC TYPE-R</u>	
7	Flathead Screwdriver	<u>20-0424-FL CATCH CAN KIT, PCV, CIVIC TYPE-R</u>	

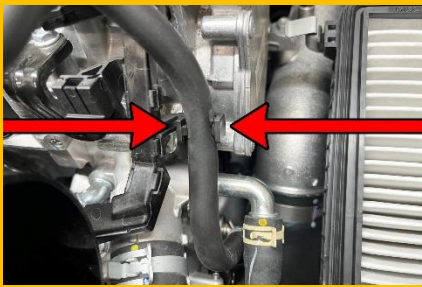
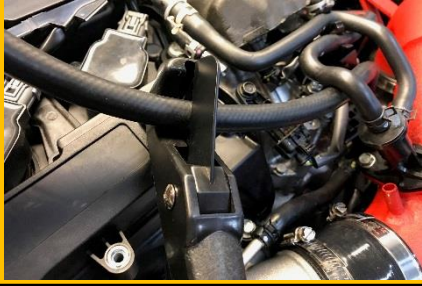





8	Pick	<u>20-0424-FL CATCH CAN KIT, PCV, CIVIC TYPE-R</u>	
		Honda FL5 Civic Type-R Depicted	
		To release the fuel line from the bracket, push the plastic mounting tab lock from the backside. When disengaged, the plastic tab will rotate up and forward, as shown.	
9		<u>20-0424-FL CATCH CAN KIT, PCV, CIVIC TYPE-R</u>	
		Honda FK8 Civic Type-R Depicted	
		Unclip the OEM fuel line, as shown.	
		To dislodge the OEM fuel line, pull it away from the firewall. This will expose the two M6 bolts that secure the fuel line bracket to the firewall.	
10		<u>20-0424-FL CATCH CAN KIT, PCV, CIVIC TYPE-R</u>	
		Honda FL5 Civic Type-R Depicted	
		To release the fuel line from the bracket, push the plastic mounting tab lock from the frontside. When disengaged, the plastic tab will rotate, as shown.	
		To dislodge the OEM fuel line, pull it away from the firewall. This will expose the two M6 bolts that secure the fuel line bracket to the firewall.	
11	10mm Socket	<u>20-0424-FL CATCH CAN KIT, PCV, CIVIC TYPE-R</u>	
		Unscrew the two M6x1mm bolts that hold the fuel line bracket to the firewall. Temporarily remove the bracket (shown).	
12	10mm Socket	<u>20-0424-FL CATCH CAN KIT, PCV, CIVIC TYPE-R</u>	
		NOTE: Regarding the 4 holes on the Radium catch can bracket, all Type-Rs will use the pair of holes furthest from the catch can. This position will space the catch can away from the OEM fuel line.	
		Place the Radium Engineering catch can bracket behind the OEM fuel line bracket. 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.	
13	10mm Socket	<u>20-0424-FL CATCH CAN KIT, PCV, CIVIC TYPE-R</u>	
		Resecure the OEM fuel line like just factory.	
		Reinstall the metal fuel line cover using the two OEM M6x1mm bolts.	


14		<u>20-0424-FL CATCH CAN KIT, PCV, CIVIC TYPE-R</u> Remove the oil dipstick from the top of the catch can. Install the banjo fittings to the catch can exactly as shown.	
		NOTES:	
		1. For kits manufactured prior to August 2020, green banjo fittings are included (not shown). Use a torque wrench with a 1-1/8" socket.	
		2. For kits manufactured after August 2020, stainless steel banjo fittings are included (shown). Tighten using a 4mm Allen wrench.	
15	Thread Locker	<u>20-0424-FL CATCH CAN KIT, PCV, CIVIC TYPE-R</u>	
	3mm Allen Wrench	Apply a medium-strength thread locker to the four M5x0.8mm countersink screws provided in the kit.	
		Place the catch can in the bracket from underneath. As shown, secure the 4 screws. Rotate the top banjo to face the side, then reinstall the oil dipstick.	
16	Oil Lubrication	<u>20-0424-FL CATCH CAN KIT, PCV, CIVIC TYPE-R</u>	
	Hose Cutter	Find the 3/8" (6AN) PCV hose included in the kit. Apply a liberal amount of oil to lubricate the PushLok bars.	
		When installing the PushLok hose ends into each end of the hose, a large amount of force will be required. NOTE: hose clamps are NOT required for PushLok hose ends.	
		Next, cut the hose at the mid point, creating two equal-length hoses.	
17		<u>20-0424-FL CATCH CAN KIT, PCV, CIVIC TYPE-R</u>	
		Slide the included clamps over the ends to the hoses just created.	
		NOTES:	
		1. Early kits that include spring clamps require pliers.	
		2. Newer kits that include EFI clamps require a screwdriver.	
18		<u>20-0424-FL CATCH CAN KIT, PCV, CIVIC TYPE-R</u>	
		Loosely install the hose ends to the catch can fittings. Route the hoses so they are positioned downwards, as shown.	
		Route the catch can top port hose towards the valve cover barb.	
		Route the catch can side port hose down to the intake manifold barb.	
19	Hose Cutter	<u>20-0424-FL CATCH CAN KIT, PCV, CIVIC TYPE-R</u>	
		Cut each hose to length. Below are only examples. Test before cutting. Enough slack should be allowed for normal engine movement.	
		Catch Can Top Port Hose to Valve Cover: 11-12 inches (279-305 mm)	
		Catch Can Side Port Hose to Intake Manifold: 7-8 inches (178-203 mm)	

20		<u>20-0424-FL CATCH CAN KIT, PCV, CIVIC TYPE-R</u>	
		When connecting the catch can side port hose to the intake manifold barb, as shown, the exact process will depend on which clamps were provided in your specific kit.	
		Reference the steps below to see if you have an early kit or a newer kit.	
21	Screwdriver	<u>20-0424-FL CATCH CAN KIT, PCV, CIVIC TYPE-R</u>	
		For newer kits that include EFI clamps, first tighten the clamp on the hose just enough to collapse the clamp slightly. Slide the clamp through the slotted area of the intake manifold barb and tighten.	
22	Pliers	<u>20-0424-FL CATCH CAN KIT, PCV, CIVIC TYPE-R</u>	
		For early kits that include spring clamps, simply slide the catch can side port hose onto the intake manifold barb and install the spring clamp through the slotted area of the intake manifold barb, as shown.	
23	Screwdriver	<u>20-0424-FL CATCH CAN KIT, PCV, CIVIC TYPE-R</u>	
	Pliers		
	11/16" Wrench	For the valve cover connection, simply slide the catch can top port hose onto the barb and install the provided clamp.	
		Position the hose ends and tighten with a non-marring aluminum wrench.	
		PCV CATCH CAN INSTALLATION COMPLETE	
24	10mm Socket	<u>20-0825-FL CATCH CAN KIT, CCV, CIVIC TYPE-R</u>	
		NOTE: Because this kit is compatible with both the FK8 and FL5 Civic Type-R, some parts will not be used depending on the model.	
		First, prop the hood and disconnect the battery.	
		Unscrew the 5 engine cover bolts and remove the engine cover from the vehicle.	
25	3mm Allen Wrench	<u>20-0825-FL CATCH CAN KIT, CCV, CIVIC TYPE-R</u>	
	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.	

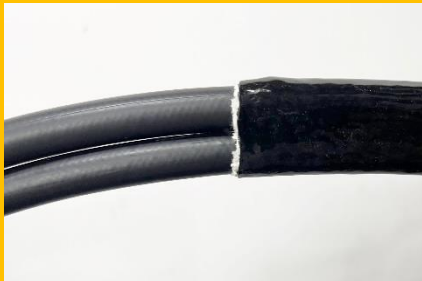

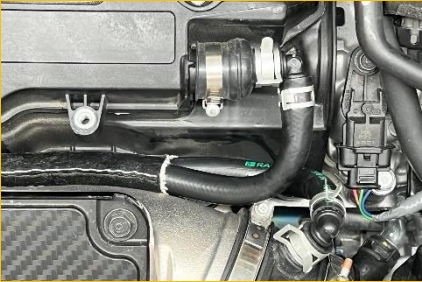


26	4mm Allen Wrench	<u>20-0825-FL CATCH CAN KIT, CCV, CIVIC TYPE-R</u>	
		Install banjo fittings to the catch can. Orient the banjos so the AN fittings are pointing in the directions shown.	
		NOTES:	
		For kits manufactured before August 2020, green banjo fittings are included (not shown).	
27	19mm Socket	<u>20-0825-FL CATCH CAN KIT, CCV, CIVIC TYPE-R</u>	
		Remove the 2 motor mounts bolts shown.	
28	19mm Socket	<u>20-0825-FL CATCH CAN KIT, CCV, CIVIC TYPE-R</u>	
	Torque Wrench	Place the catch can assembly onto the motor mount as shown. Retighten the OEM bolts to 69 ft-lbs (93 nM).	
		NOTE: If an aftermarket motor mount is used, minor modifications may be required.	
29		<u>20-0825-FL CATCH CAN KIT, CCV, CIVIC TYPE-R</u>	
		The CCV breather line is integrated with a coolant tube. Removing this will differ depending on the intake system installed in the vehicle.	
		Some aftermarket intake systems (shown) 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).	
30		<u>20-0825-FL CATCH CAN KIT, CCV, CIVIC TYPE-R</u>	
		Honda OEM intakes (shown) use the OEM hard crankcase vent tube. Remove the 2 OEM tamper-proof worm drive clamps from each end of the CCV hard tube. Do not remove the OEM tamper-proof worm drive clamp from the valve cover side.	
		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.	
31		<u>20-0825-FL CATCH CAN KIT, CCV, CIVIC TYPE-R</u>	
		Disengage the CCV hard tube from the rubber valve cover reducer and the intake coupler.	
		NOTE: The coolant line of the OEM hard tube will be bypassed in the next few steps.	

32	Pliers	<u>20-0825-FL CATCH CAN KIT, CCV, CIVIC TYPE-R</u> Find the 5/16" heater hose supplied in the kit. Install one of the provided small spring clamps near the end of the hose.	
33	Pliers	<u>20-0825-FL CATCH CAN KIT, CCV, CIVIC TYPE-R</u> Install the Radium spring clamp to finish the connection.	
34	Pliers	<u>20-0825-FL CATCH CAN KIT, CCV, CIVIC TYPE-R</u> 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	<u>20-0825-FL CATCH CAN KIT, CCV, CIVIC TYPE-R</u> 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		<u>20-0825-FL CATCH CAN KIT, CCV, CIVIC TYPE-R</u> Permanently remove the OEM hard tube assembly (shown) from the vehicle. This will NOT be reused.	
37	Oil Lubrication	<u>20-0825-FL CATCH CAN KIT, CCV, CIVIC TYPE-R</u>	
	Pliers	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.	

38		<u>20-0825-FL CATCH CAN KIT, CCV, CIVIC TYPE-R</u>	
		Run the heater hose provided in the kit upwards and secure it back 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	<u>20-0825-FL CATCH CAN KIT, CCV, CIVIC TYPE-R</u>	
		Cut the new heater hose to length.	
40	Oil Lubrication	<u>20-0825-FL CATCH CAN KIT, CCV, CIVIC TYPE-R</u>	
	Pliers		
		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.	
41		<u>20-0825-FL CATCH CAN KIT, CCV, CIVIC TYPE-R</u>	
		Organize all of the hose routing. Make sure nothing is overly-stressed or getting chaffed.	
42	10mm Socket	<u>20-0825-FL CATCH CAN KIT, CCV, CIVIC TYPE-R</u> 17-21 CIVIC TYPE-R ONLY	
		The CCV hoses can be routed 2 different ways. Reference the instructions for the 2023+ Type-R in the following section that uses the thermal sleeve to protect the hoses from heat. If the OEM turbo inlet is still installed however, use the following 17-21 Type-R instructions.	
43	5mm Allen Wrench	<u>20-0825-FL CATCH CAN KIT, CCV, CIVIC TYPE-R</u> 17-21 CIVIC TYPE-R ONLY	
		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			
		As shown, install the two black aluminum clamps with bolts and the 2 hard tubes included in the kit.	

44		<u>20-0825-FL CATCH CAN KIT, CCV, CIVIC TYPE-R</u>	
		17-21 CIVIC TYPE-R ONLY	
		There are 3 hose ends provided. The 17-21 Type-R will use the straight and 45 degree hose ends. The 90 degree hose end will NOT be used.	
		To understand how the hose ends will route, hand tighten the 45 degree hose end to the catch can top fitting and the straight hose end to the catch can side fitting.	
45		<u>20-0825-FL CATCH CAN KIT, CCV, CIVIC TYPE-R</u>	
		17-21 CIVIC TYPE-R ONLY	
		Near the catch can, temporarily pull out the rubber vacuum tubing from the 2 OEM clips shown.	
46		<u>20-0825-FL CATCH CAN KIT, CCV, CIVIC TYPE-R</u>	
		17-21 CIVIC TYPE-R ONLY	
		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	<u>20-0825-FL CATCH CAN KIT, CCV, CIVIC TYPE-R</u>	
		17-21 CIVIC TYPE-R ONLY	
		Find the 3/8" (6AN) PCV hose included in the kit. Lubricate the PushLok hose end barbs. A large amount of force will be required when assembling the PushLok hose ends. NOTE: hose clamps are NOT required for PushLok hose ends.	
48	Hose Cutter	<u>20-0825-FL CATCH CAN KIT, CCV, CIVIC TYPE-R</u>	
	Pliers	17-21 CIVIC TYPE-R ONLY	
		Cut each PCV hose to length.	
		Lubricate the hard tube barbs and secure the hoses using the provided spring clamps, as shown.	
49	Oil Lubrication	<u>20-0825-FL CATCH CAN KIT, CCV, CIVIC TYPE-R</u>	
	Hose Cutter	17-21 CIVIC TYPE-R ONLY	
	Pliers	Lubricate one of the plastic 90 deg elbows and install to the PCV hose. Secure using an included spring clamp. Now insert the elbow into the OEM reducing coupler. Secure with the provided large spring clamp.	
		Cut the hose to length. Lubricate the hard tube barb and secure using the provided spring clamp, as shown.	

50	Oil Lubrication	<u>20-0825-FL CATCH CAN KIT, CCV, CIVIC TYPE-R</u>	
	Hose Cutter	17-21 CIVIC TYPE-R ONLY	
	Pliers	This step is determined by the intake system installed. Use the second included 90 degree elbow for OEM style connections. Or connect the hose directly, as pictured, for aftermarket air intake systems.	
		Cut the hose to length and secure everything using the included spring clamps. Use the last large spring clamp if the 90 degree elbow is used.	
51	Hose Cutter	<u>20-0825-FL CATCH CAN KIT, CCV, CIVIC TYPE-R</u>	
		2023+ CIVIC TYPE-R ONLY	
		Cut the provided 3/8" (6AN) PCV hose in half.	
52	Oil Lubrication	<u>20-0825-FL CATCH CAN KIT, CCV, CIVIC TYPE-R</u>	
		2023+ CIVIC TYPE-R ONLY	
		There are 3 PushLok hose ends included in the kit. The 2023+ Civic Type-R will use the 45 degree and 90 degree hose ends. The straight hose end will NOT be used for this vehicle.	
		Lubricate the PushLok barbs on both provided hose ends. When installing to the hoses, a large amount of force will be required. NOTE: hose clamps are NOT required for PushLok hose ends.	
53		<u>20-0825-FL CATCH CAN KIT, CCV, CIVIC TYPE-R</u>	
		2023+ CIVIC TYPE-R ONLY	
		Loosely install the 45 degree hose end to the catch can side port fitting and the 90 degree hose end to the catch can top port fitting.	
		These hoses will route though a very tight area. The next few steps are necessary to permit the OEM engine cover to be reused.	
54		<u>20-0825-FL CATCH CAN KIT, CCV, CIVIC TYPE-R</u>	
		2023+ CIVIC TYPE-R ONLY	
		Temporarily pull the wire harness (shown) out of the valve cover clips.	
55		<u>20-0825-FL CATCH CAN KIT, CCV, CIVIC TYPE-R</u>	
		2023+ CIVIC TYPE-R ONLY	
		Temporarily pull the wire harness (shown) out of the valve cover clips.	

56		<u>20-0825-FL CATCH CAN KIT, CCV, CIVIC TYPE-R</u>	
		2023+ CIVIC TYPE-R ONLY	
		Slide the provided thermal insulating sleeve over both hoses. NOTE: This is designed to be very streamline (as depicted).	
		Push the sleeve over the hoses just far enough until it lines up with the center of the valve cover.	
57		<u>20-0825-FL CATCH CAN KIT, CCV, CIVIC TYPE-R</u>	
		2023+ CIVIC TYPE-R ONLY	
		To keep the hoses tucked down low, first route the hoses underneath the wire harness (depicted in blue).	
		Carefully push the hoses down between the backside of the turbo inlet and the frontside of the valve cover. For OEM engine cover fitment, be sure to get the hoses past the threaded boss (depicted in red).	
58	Oil Lubrication	<u>20-0825-FL CATCH CAN KIT, CCV, CIVIC TYPE-R</u>	
	Hose Cutter	2023+ CIVIC TYPE-R ONLY	
	Pliers	Lubricate the included plastic 90 degree elbows. Using the provided spring clamps, fully install one to the intake coupler and one to the valve cover reducing coupler.	
		Route the top port catch can hose to the valve cover and the side port catch can hose to the intake. Cut each hose to length. Secure each hose to the elbows using the provided spring clamps, as shown.	
59	10mm Socket	<u>20-0825-FL CATCH CAN KIT, CCV, CIVIC TYPE-R</u>	
		Install the engine cover.	
60	11/16" Wrench	<u>20-0825-FL CATCH CAN KIT, CCV, CIVIC TYPE-R</u>	
		Tighten both 6AN hose ends.	
		CCV CATCH CAN INSTALLATION COMPLETE	
SERVICING	It is recommended to check catch can fluid level every 5,000 miles (8,000km). It may be necessary to check more frequently in cases of extreme use.	Catch can contents can be monitored using the dipsticks. When collected fluid reaches a certain level, a float ball in the catch can will block the passage into the collection chamber and the catch can will not collect any additional fluid. To empty the catch cans, unbolt the catch can bracket from the vehicle body. Lift the assembly up as high as possible. Unscrew the bottom half of the catch cans. Carefully drain contents into an oil-safe container and dispose of in the same manner as used motor oil.	