INSTALLATION INSTRUCTIONS
2020+ CORVETTE COUPE, LT2
CATCH CAN KITS

P/Ns: 20-1385-FL, 20-1386-FL, 20-1387-FL

Document: 19-0452

Support: info@radiumauto.com

COLOR LEGEND FOR EACH STEP

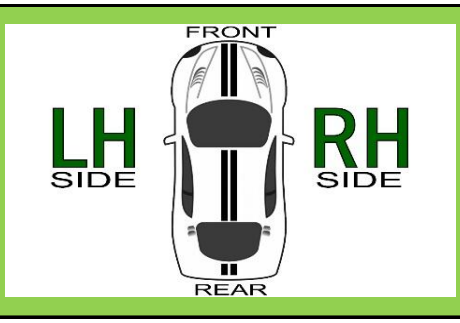
20-1385-FL CATCH CAN KIT, PCV, 2020+ CORVETTE COUPE, LT2. FLUID LOCK
Follow GREEN and YELLOW areas below

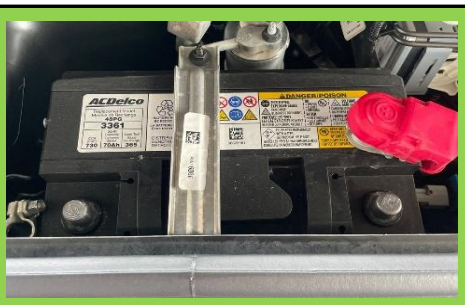
20-1386-FL CATCH CAN KIT, CCV, 2020+ CORVETTE COUPE, LT2, FLUID LOCK
Follow GREEN and ORANGE areas below

20-1387-FLDUAL CATCH CAN KIT, 2020+ CORVETTE COUPE, LT2, FLUID LOCK
Follow GREEN, YELLOW, and ORANGE areas below



20-1387-FL			
ITEM DESCRIPTION	**QTY**	**ITEM DESCRIPTION**	**QTY**
CATCH CAN, FLUID LOCK, PREASSEMBLED	2	FLAT HEAD CAP SCREW, M5X0.8X10, SS	8
BRACKET, PCV CATCH CAN, C8	1	BUTTON HEAD CAP SCREW, M6X1X16, SS	6
BRACKET, CCV CATCH CAN, C8	1	FLANGED HEX NUT, M6X1, ZINC-PLATED	2
10MM SAE FEMALE TO 3/8IN BARB, STRAIGHT	1	SPRING CLAMP, 3/8IN HOSE	8
10MM SAE FEMALE TO 3/8IN BARB, 45 DEG	5	SPRING CLAMP, 5/8IN HOSE	2
10MM SAE FEMALE TO 3/8IN BARB, 90 DEG	2	ZIP TIE, 10IN, BLACK NYLON	8
16MM SAE FEMALE TO 5/8IN BARB, 90 DEG	2	3/8IN PCV/FUEL HOSE	8FT
10AN ORB SWIVEL BANJO TO 10MM SAE MALE	1	5/8IN PCV/FUEL HOSE	1FT
10AN ORB SWIVEL BANJO PCV VALVE TO 10MM SAE MALE	1	CATCH CAN SERVICE INTERVAL STICKER	2
10AN ORB SWIVEL BANJO TO DUAL 10MM SAE MALE	1		
10AN ORB SWIVEL BANJO TO 16MM SAE MALE	1		

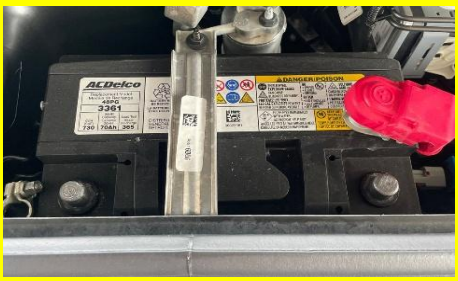
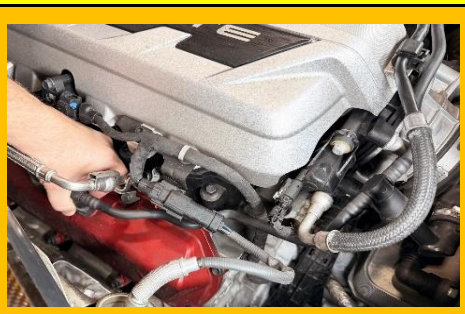
STEP	TOOLS NEEDED	INSTRUCTIONS	PHOTO
1		NOTES: a. The terms "driver-side" and "passenger-side" will NOT be referenced. As depicted, these instructions will always reference "LH" and "RH" areas of the vehicle. b. Aluminum wrenches are recommended to prevent surface marring on all anodized finishes. c. Lubricate all O-rings with engine oil prior to installation.	

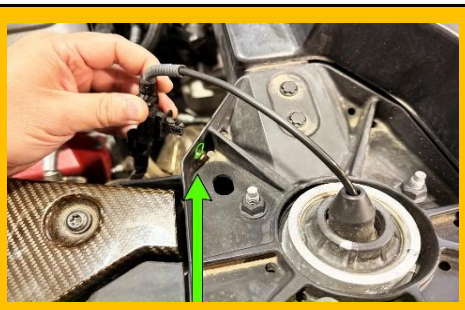
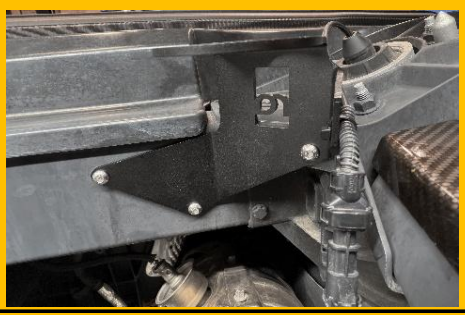
2	10mm Socket Wrench	Disconnect the negative battery terminal. CAUTION: Disconnecting the battery may cancel fault memories of some control units. Consequently, before disconnecting the battery, always cross examine any fault memories.	
3		Check the part number on the side of the product box _____ **20-1385-FL CATCH CAN KIT, PCV, 2020+ CORVETTE COUPE, LT2** **Follow YELLOW section.** _____ **20-1386-FL CATCH CAN KIT, CCV, 2020+ CORVETTE COUPE, LT2** **Follow ORANGE section.** _____ **20-1387-FL DUAL CATCH CAN KIT, 2020+ CORVETTE COUPE, LT2** **Follow YELLOW/ORANGE sections.**	
4		**<u>20-1385-FL PCV CATCH CAN KIT</u>** Find the SAE quick connector at the RH rear of the intake manifold. Push the connector further in, then squeeze the opposing side locks (as shown) and pull the connector off.	
5		While following this tubing towards the front of the engine, unclip the plastic retainers that secure it to the other nearby tubing.	
6		There is an SAE quick connector on the valley cover. It found at the RH front of the engine between cylinder 2 and 4 intake manifold runners. Push the connector further in, then squeeze the opposing side locks (as shown) and pull the connector off.	
7		Remove the OEM tubing from the vehicle. This will NOT be reused.	

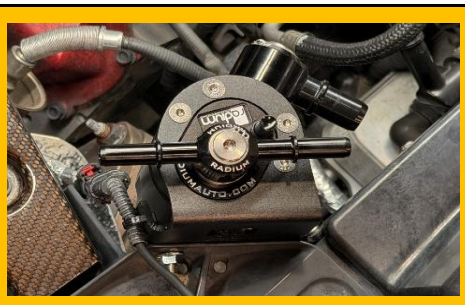
8	Needle Nose Pliers Pry Tool	Dislodge the plastic "christmas tree" stay that secures the RH rear MRC (magnetic ride control) connector.	
9		As shown, this is now one of the holes that will be used to secure the PCV catch can mounting bracket.	
10	Pry Tool	Pry the MRC connector tab downwards and slid the "christmas tree" off, as shown. This "christmas tree" will NOT be required.	
11	10mm Socket 10mm Wrench Cutter	Using the provided M6x1mm hardware (3 flange head screws and 1 flanged nut), install the PCV catch can mounting bracket, as shown. NOTES: 1. The flanged nut and one of the screws is used for the hole created by removing the plastic MRC connector stay. 2. Position the MRC wiring connector to the outer side of the bracket and secure to the bracket with one of the cable zip ties, as shown.	
12	Oil Lubrication 4mm Allen Wrench	Find the 10AN ORB PCV valve to 10mm SAE quick connect banjo fitting in the kit and lubricate the O-ring. CAUTION: Do NOT mistaken this banjo fitting for the other banjo fitting in the kit. This is a PCV valve and MUST BE installed into the side port of the catch can, as shown. It is denoted with "PCV VALVE" etching and it is a slightly taller fitting.	
13	Thread Locker 3mm Allen Wrench	Apply a medium-strength thread locker to the four provided M5x0.8mm flat head bolts. Now move the catch can in place and secure.	

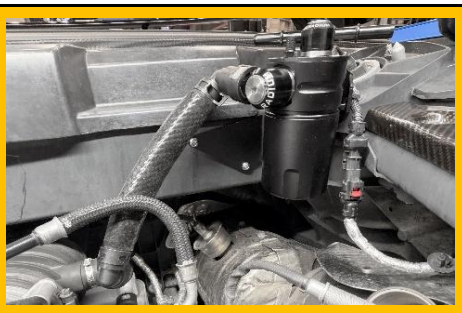
14	Oil Lubrication 4mm Allen Wrench	Find the other 10AN ORB to 10mm SAE quick connect banjo fitting. Lubricate the O-ring and install the fitting to the top port, as shown.	
15	Oil Lubrication	There will be 2 hoses to assemble. PCV Hose #1: Intake manifold port to side catch can port Grab one of the 45 degree SAE quick connectors in the kit. Lubricate the barbed areas shown.	
16	Pliers Oil Lubrication	Insert the 45 degree SAE quick connector into the provided 3/8" PCV hose. Secure using one of the 3/8" spring clamps, as shown. Lubricate the internal O-rings inside the SAE quick connector. Push the SAE quick connector onto the RH rear intake manifold fitting until a "click" is felt.	
17	Oil Lubrication Hose Cutter	Lubricate the internal O-rings inside the provided straight SAE quick connector and temporarily install it to the catch can side fitting. Route the intake manifold hose (from the previous step) towards this straight SAE quick connector and cut it to length. NOTES: 1. Be sure to add a little slack to compensate for engine movement. 2. The hose on this specific vehicle was cut at 10" (254mm) long.	
18	Oil Lubrication Pliers	Remove the straight SAE quick connector from the catch can and lubricate the barbed area. Insert the straight SAE quick connector into the cut 3/8" PCV hose. Secure using one of the 3/8" spring clamps, as shown.	
19		Push the straight SAE quick connector onto the side catch can port fitting and the 45 degree SAE quick connector onto the intake manifold port until they lock in place.	

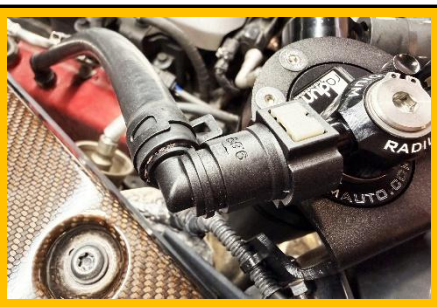
20	Oil Lubrication	PCV Hose #2: Valley cover port to catch can top port Grab the other 90 degree SAE quick connector in the kit. Lubricate the barbed areas shown.	
21	Pliers Oil Lubrication	Insert the 90 degree SAE quick connector into the spare 3/8" PCV hose. Secure using one of the 3/8" spring clamps, as shown. Lubricate the internal O-rings inside the SAE quick connector. Push the SAE quick connector onto the valley cover fitting until it locks in place.	
22	Oil Lubrication Hose Cutter	Lubricate the internal O-rings inside the last 45 degree SAE quick connector and temporarily install it to the catch can top fitting. Route the valley cover hose (from the previous step) towards this SAE quick connector and cut it to length. NOTES: 1. Be sure to add a little slack to compensate for engine movement. 2. The hose on this specific vehicle was cut at 22" (559mm) long.	
23	Oil Lubrication	Remove the 45 degree SAE quick connector from the catch can and lubricate the barbed areas shown.	
24	Pliers	Insert the 45 degree SAE quick connector into the 3/8" PCV hose. Secure using one of the 3/8" spring clamps, as shown. Lubricate the internal O-rings inside the SAE quick connector. Push the SAE quick connector onto the valley cover fitting until it locks in place.	
25		Push the 90 degree SAE quick connector onto the valley cover port fitting and the 45 degree SAE quick connector onto the catch can top port until they lock in place.	

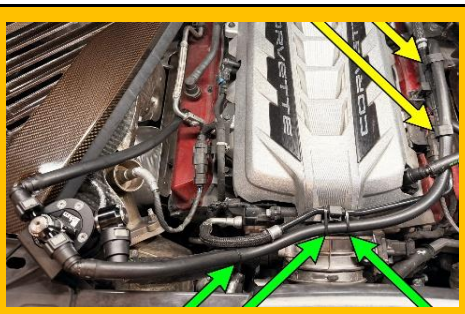
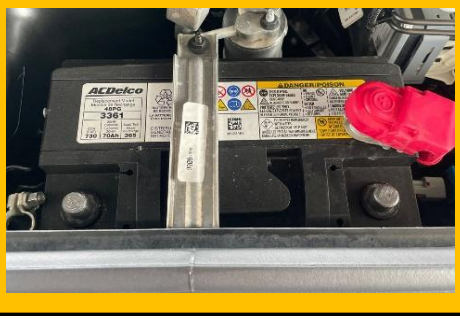
26	Cutter	Secure the hoses using the provided cable zip ties.	
27	10mm Socket Wrench	Reconnect the battery. Start the engine and check for any leaks or errors. **INSTALLATION COMPLETE**	
28		**20-1386-FL CCV CATCH CAN KIT** Find the SAE quick connector at the LH side of the valve cover. Push the connector further in, then squeeze the opposing side locks (as shown) and pull the connector off.	
29		Find the SAE quick connector at the RH rear side of the valve cover. Push the connector further in, then squeeze the opposing side locks (as shown) and pull the connector off.	
30		Find the large SAE quick connector on the rubber intake tube (pre throttle body). Push the connector further in, then squeeze the opposing side locks (as shown) and pull the connector off.	
31		Remove the OEM tubing from the vehicle. This will NOT be reused.	

32	Pry Tool Pliers	Dislodge the plastic "christmas tree" stay that secures the LH rear MRC (magnetic ride control) connector. As shown, this is now one of the holes that will be used to secure the CCV catch can mounting bracket.	
33	Pry Tool	Pry the MRC connector tab downwards and slid the "christmas tree" off, as shown. This "christmas tree" will NOT be required.	
34	10mm Socket 10mm Wrench Cutter	Using the provided M6x1mm hardware (3 flange head screws and 1 flanged nut), install the CCV catch can mounting bracket, as shown. NOTES: 1. The flanged nut and one of the screws is used for the hole created by removing the plastic MRC connector stay. 2. Position the MRC wiring connector to the outer side of the bracket and secure to the bracket with one of the cable zip ties, as shown.	
35	Oil Lubrication 6mm Allen Wrench	Find the 10AN ORB to 16mm SAE quick connect banjo fitting in the kit. Lubricate the O-ring and install the fitting to the side port of the catch can, as shown.	
36	Thread Locker	Apply a medium-strength thread locker to the four provided M5x0.8mm flat head bolts. Now move the catch can in place and secure.	
37	3mm Allen Wrench	Now move the catch can in place and secure.	

38	Oil Lubrication 5mm Allen Wrench	Find the 10AN ORB to dual 10mm SAE quick connect banjo fitting. Lubricate the O-ring and install the fitting to the top port, as shown.	
39	Oil Lubrication	There will be 3 hoses to assemble. CCV Hose #1: Intake port to side catch can port Grab one of the large 90 degree 16mm SAE quick connectors in the kit. Lubricate the barbed areas shown.	
40	Pliers Oil Lubrication	Insert this large 90 degree 16mm SAE quick connector into the provided 5/8" PCV hose. Secure using one of the 5/8" spring clamps, as shown. Lubricate the internal O-rings inside the SAE quick connector. Push the SAE quick connector onto the intake port fitting.	
41	Oil Lubrication Hose Cutter	Lubricate the internal O-rings inside the other large 90 degree 16mm SAE quick connector and temporarily install it to the catch can side fitting. Route the intake hose (from the previous step) towards this large 90 degree 16mm SAE quick connector and cut it to length. NOTES: 1. Be sure to add a little slack to compensate for engine movement. 2. The hose on this specific vehicle was cut at 7.5" (190mm) long.	
42	Oil Lubrication	Lubricate the barbed areas shown on the large 90 degree 16mm SAE quick connector.	
43	Pliers	Insert the SAE quick connector into the 5/8" PCV hose. Secure using the other 5/8" spring clamp, as shown. The hose assembly will look as pictured. Push the SAE quick connector onto the valley cover fitting until it locks in place.	

44		Push the SAE quick connectors onto the side catch can port fitting and the intake port fitting until they lock in place.	
45	Oil Lubrication	CCV Hose #2: LH valve cover fitting to top LH catch can port Grab one of the 45 degree SAE quick connectors in the kit. Lubricate the barbed areas shown.	
46	Pliers Oil Lubrication	Insert the 45 degree SAE quick connector into the provided 3/8" PCV hose. Secure using one of the 3/8" spring clamps, as shown. Lubricate the internal O-rings inside the SAE quick connector. Push the SAE quick connector onto the LH valve cover port fitting.	
47	Oil Lubrication Hose Cutter	Lubricate the internal O-rings inside the provided small 90 degree SAE quick connector and temporarily install it to the catch can top fitting that points to the front RH side of the vehicle. Route the LH valve cover hose (from the previous step) towards this 90 degree SAE quick connector and cut it to length. NOTES: 1. Be sure to add a little slack to compensate for engine movement. 2. The hose on this specific vehicle was cut at 13.5" (343mm) long.	
48	Oil Lubrication	Remove the small 90 degree SAE quick connector from the catch can and lubricate the barbed area, as shown.	
49	Pliers	Insert the small 90 degree SAE quick connector into the cut 3/8" PCV hose. Secure using one of the 3/8" spring clamps, as shown.	

50		Push the 90 degree SAE quick connector onto the top LH catch can port fitting and the 45 degree SAE quick connector onto the LH valve cover port until they lock in place.	
51	Oil Lubrication	CCV Hose #3: Front RH valve cover fitting to top RH catch can port Grab one of the 45 degree SAE quick connectors in the kit. Lubricate the barbed areas shown.	
52	Pliers Oil Lubrication	Insert the 45 degree SAE quick connector into the leftover 3/8" PCV hose. Secure using one of the 3/8" spring clamps, as shown. Lubricate the internal O-rings inside the SAE quick connector. Push the SAE quick connector onto the front RH valve cover port fitting.	
53	Oil Lubrication Hose Cutter	Lubricate the internal O-rings inside the last 45 degree SAE quick connector and temporarily install it to the catch can top fitting that points to the RH rear portion of the vehicle. Route the front RH valve cover hose (from the previous step) towards this SAE quick connector and cut it to length. NOTES: 1. Be sure to add a little slack to compensate for engine movement. 2. The hose on this specific vehicle was cut at 35" (889mm) long.	
54	Oil Lubrication	Remove the 45 degree SAE quick connector from the catch can and lubricate the barbed areas shown.	
55	Pliers	Insert the 45 degree SAE quick connector into the cut 3/8" PCV hose. Secure using one of the 3/8" spring clamps, as shown. Push the SAE quick connectors onto the top RH catch can port fitting and the front RH valve cover port until they lock in place.	

56	Cutter	If still present the OEM plastic clamps (shown yellow) can be used to secure the hose above the RH valve cover. Now secure the hoses using the provided cable zip ties (shown green).	
57	10mm Socket Wrench	Reconnect the battery. Start the engine and check for any leaks or errors. **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 extreme cases.	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, unscrew the bottom half of the catch can. Carefully drain contents into an oil-safe container and dispose of in the same manner as used motor oil. Contents may also be drawn out through the dip stick hole using a hand vacuum pump and a straw.	