

# INSTALLATION INSTRUCTIONS

## OIL CATCH CAN KITS

1989-1994 Nissan 240SX

Nissan 180sx/Silvia

Kit # 20-0725-FL, 20-0726-FL, 20-0727-FL

Document: 19-0246

Support: info@radiumauto.com

20-0725 CATCH CAN KIT, PCV, NISSAN S13

Follow YELLOW areas below

20-0726 CATCH CAN KIT, CCV, NISSAN S13

Follow ORANGE areas below


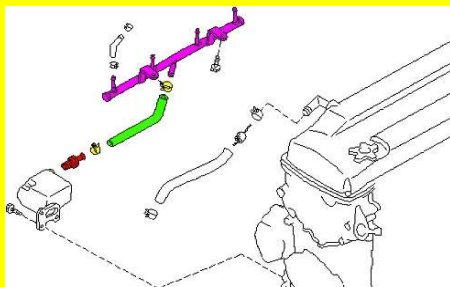

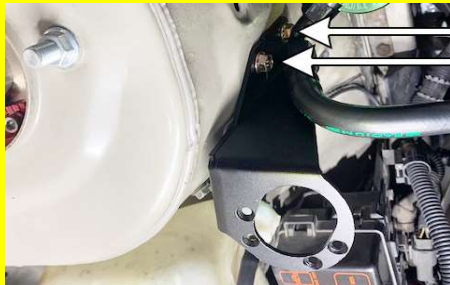


20-0727 DUAL CATCH CAN KIT, NISSAN S13

Follow GREEN areas below


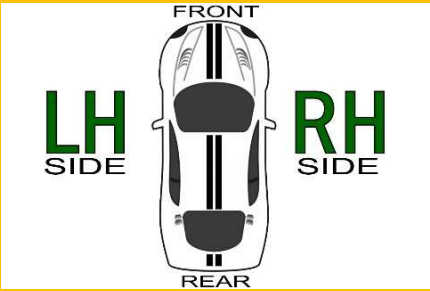








20-0727-FL	
Item Description	Qty
Bracket, S13, PCV	1
Bracket, S13, CCV	1
Catch Can, Fluid Lock 2, Preassembled	2
3/8 PCV/FUEL HOSE	4 ft
5/8 PCV/FUEL HOSE	10 ft
PUSHLOK HOSE END, 6AN 90DEG	2
PUSHLOK HOSE END, 10AN STRAIGHT	1
PUSHLOK HOSE END, 10AN 90DEG	1
10AN ORB SWIVEL BANJO TO 6AN MALE	2
10AN ORB SWIVEL BANJO TO 10AN MALE	2
HHCS, M6 x 1.0, 16mm long	4
Thread-Cutting Screw	1
Flanged Hex Nut, M6 x 1.0	1
10 inch Zip Tie, Black Nylon	4
EFI HOSE CLAMP, #15, SS	2
CATCH CAN SERVICE INTERVAL STICKER	1


STEP	TOOLS NEEDED	INSTRUCTIONS	PHOTO
1		<b>20-0725 CATCH CAN KIT, PCV, NISSAN S13</b>	
		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.	

2	10mm Socket Wrench	Open the hood and disconnect the battery's negative 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	Pliers	<b>Nissan KA24DE Engine ONLY</b>	
		The PCV valve (red) is in a box mounted to the engine block. Loosen the OEM spring clamps (yellow) to remove the OEM PCV hose (green) that attaches to the vacuum rail (purple) under the intake manifold. This hose will NOT be reused.	
4	Pliers	<b>Nissan SR20DET Engine ONLY</b>	
		The PCV valve is located on the intake side of the valve cover. Loosen the OEM spring clamps and remove the hose. The spring clamps and hose will not be reused.	
5	10mm Wrench	Position the catch can bracket to the RH strut tower and secure using the provided flanged hex M6 bolts, as shown.	
6	Oil Lubrication	Secure both included 6AN adapter fittings to the catch can, as shown. Prelubricate the O-rings.	
	4mm Allen Wrench		
7	Threadlocker	Apply a medium strength threadlocker to the four provided M5x0.8mm bolts. Position the catch can in place and secure with the four M5x0.8mm bolts.	
	3mm Allen Wrench		



14		Make sure the catch can assembly and hoses are not interfering with any other critical components such as fuel lines. Reconnect the battery and start the engine. Confirm there are no vacuum leaks.	
		<b>20-0725 PCV CATCH CAN KIT INSTALLATION COMPLETE</b>	
15		<b>20-0726 CATCH CAN KIT, CCV, NISSAN S13</b>	
		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.	
16	10mm Socket Wrench	Open the hood and disconnect the battery's negative terminal.	
		CAUTION: Disconnecting the battery may cancel fault memories of some control units. Consequently, before disconnecting the battery, always cross examine any fault memories.	
17	10mm Socket Wrench	Unbolt the windshield wiper relay in the LH area near the firewall.	
18	Pliers	Find the OEM hose that vents from the valve cover to the intake pipe. For the KA24DE engine, this will be on the intake side of the valve cover. On other engines, the OEM hose will be on the exhaust side of the valve cover.	
		Loosen and slide the OEM spring clamps to remove the hose. Both OEM spring clamps will be reused. The OEM CCV hose will not be reused.	
19	Oil Lubrication	Lubricate the O-ring and install the 10AN adapter fitting to the catch can side port. NOTE: the other adapter fitting will be installed later.	
	1" Wrench		

20	10mm Wrenches	Lineup the windshield wiper relay "peg" to the hole on the side of the mounting bracket. Secure in place using 1 of the provided M6x1mm bolts and the M6x1mm nut as shown.	
21	10mm Socket Wrench	Install the mounting bracket to the unibody where the windshield wiper relay was previously installed.	
	3/8" Socket Wrench		
		NOTE: Use the provided thread-forming bolt for the sheet metal hole and the other M6x1mm bolt for the threaded hole.	
22	Thread Locker	Apply a medium strength threadlocker to the four provided M5x0.8mm bolts. Position the catch can in place and secure with the four M5x0.8mm bolts.	
	3mm Allen Wrench		
23	Oil Lubrication	Temporarily remove the catch can dipstick.	
	6mm Allen Wrench	Lubricate the O-ring and install the low profile 10AN adapter fitting to the catch can top port.	
		Reattach the dipstick to the catch can.	
24	Oil Lubrication	As shown, lubricate the barbs on the included 90 degree PushLok hose end.	
25		Fully seat the 90 degree PushLok hose end into the provided hose. NOTE: PushLok hose ends do NOT require clamps.	
		This hose will install between the catch can side port fitting and intake pipe's CCV barb.	

26	Hose Cutter	Cut the hose to an appropriate length.	
		Install the hose to the intake pipe and secure using the OEM spring clamp.	
		NOTE: For SR20DET engines with an OEM intake, the hose will be roughly 19" long. For naturally aspirated KA24DE engines, the hose will travel a long distance.	
27		Connect the hose end to the catch can side port. NOTE: Because the 10AN catch can fitting can swivel, there are 2 options for hose end orientation. Because of interference, there is nothing in between.	
		1. Yellow depicts the direction of the "low" position. Great for engines where the CCV barb is in the LH side of the engine bay (SR20DET).	
		2. Red depicts the direction of the "high" position. Great for engines where the CCV barb is in the RH side of the engine bay (KA24DE). The hose can route along the firewall to the opposite side of the engine bay.	
28		Lubricate the barbs on the stright PushLok hose end and fully seat into the leftover hose. NOTE: PushLok hose ends do NOT require clamps.	
		Hand tighten the straight hose end into the catch can top port.	
29	Hose Cutter	Route the hose from the catch can top port towards the valve cover CCV barb. Allowing extra slack for engine movement, cut the hose to length.	
	Pliers	Secure the hose using the OEM spring clamp.	
		NOTE: Pictured is an add-on option (not included) for the SR20DET:	
		1. 20-0811 10AN press-in fitting (x1)	
		2. 14-0215 10AN hose end, 180 degree (x1)	
		3. 14-0211 10AN hose end, straight (x1)	
30	1" Wrench	Tighten both PushLok hose ends. NOTE: An aluminum wrench will prevent surface finishing marring.	
		Reconnect the battery and start the engine. Confirm there are no leaks.	
		<b>20-0726 CCV CATCH CAN KIT INSTALLATION COMPLETE</b>	
31		<b>20-0727 DUAL CATCH CAN KIT, NISSAN S13</b>	
		To install the dual catch can kit, simply follow all of the instructions above for the PCV and CCV catch can kits.	
		<b>20-0727 DUAL CATCH CAN KIT INSTALLATION COMPLETE</b>	

## 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 dipstick.

The contents can be emptied by one of three ways:

1. Unscrewing the bottom half of the catch can and dumping out the collected fluid.
2. Extracted through the dipstick hole using a hand vacuum pump and straw.
3. A remote drain hose can be installed on the bottom of the catch can (P/N 20-0024)

Carefully drain contents into an oil-safe container and dispose in the same manner as used motor oil.

