INSTALLATION INSTRUCTIONS
NISSAN SKYLINE GT-R (R32)
OIL CATCH CAN KITS

Document: 19-0270
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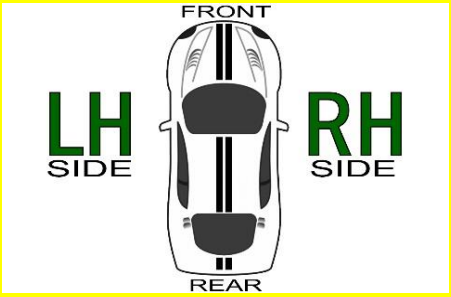
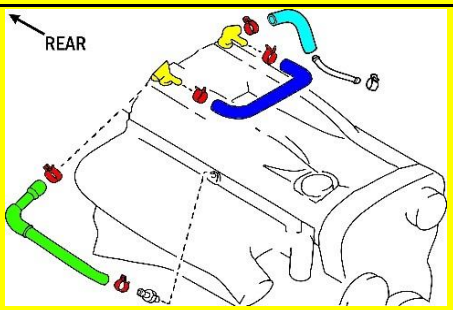
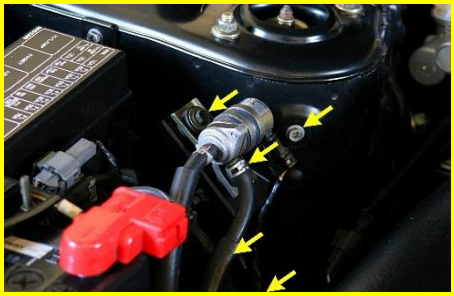
CATCH CAN SERVICING

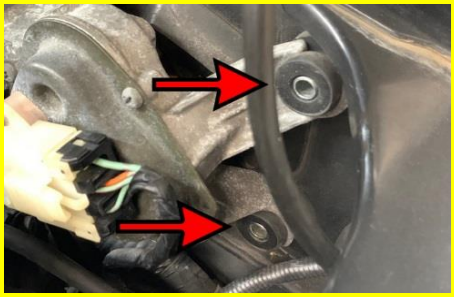
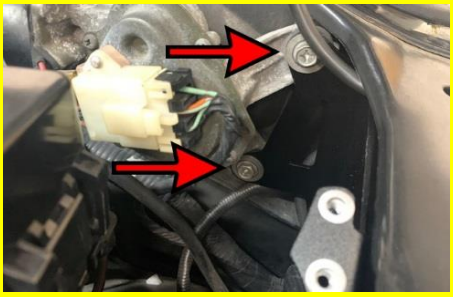
Check the dipstick regularly. All vehicles are unique and will accumulate oil contaminants at different rates. Unscrew the bottom portion of the catch can and properly dispose of contents as needed. Do NOT return the contents back into the engine. If needed, the stainless steel media can be cleaned with a degreaser.

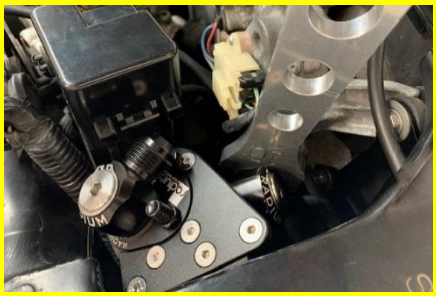
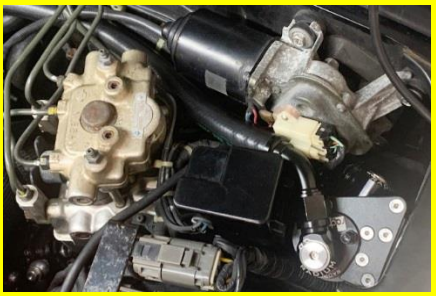
STEP	TOOLS NEEDED	INSTRUCTIONS	PHOTO
1	10mm Socket Wrench	NOTE: The terms "driver-side" and "passenger-side" will NOT be referenced. As depicted, these instructions will always reference "LH" and "RH" areas of the vehicle. Open the hood and disconnect the battery's negative terminal. CAUTION: Disconnecting the battery may cancel fault memories of some control units. Consequently, before disconnecting the battery, always cross examine any fault memories.	
2	Pliers	Remove all components shown in color. These will NOT reused.	
3		There are many ways to remove the OEM press-in fittings on the valve covers. One way is to insert an object, such as a large socket, into both barbs. Spin and pull repeatedly until they are released. Next, place the included Radium Engineering press-in fittings into a freezer for 5-10 minutes. This will slightly decrease its size.	
4	Oil Lubrication Hammer	Lubricate the press-in portion of the fitting and the valve cover hole. Place an object, such as as a 14mm socket, onto the center of the fitting, contacting only the stainless steel material. Use a mallet and gently tap each fitting into the valve covers. Check often to make sure the fitting is going in straight. Be cautious to not contact the black aluminum portion of the fitting when driving the press-fit into the valve covers.	

5	10mm Socket Wrench	The wastegate solenoid and the injector resistor box is mounted to a steel bracket. To remove this bracket and the two aforementioned components, unscrew the five M6x1mm bolts shown. NOTE: If still present, the OEM wastegate solenoid will need to be relocated. This procedure will not be discussed.	
6	10mm Socket Wrench	If reusing the OEM injector resistor box (shown), unscrew the two M6x1mm bolts that secure it to the steel bracket. Next, mount the injector resistor box using the exact same threads in the unibody that the steel bracket used. NOTE: Fortunately, the bolt hole distance is the exact same.	
7	6mm Allen Wrench	Secure one of the 10AN banjo fittings to the PCV catch can side port. NOTE: Lubricate the O-rings prior to assembly.	
8	Threadlocker 3mm Allen Wrench	Apply a medium strength threadlocker to the 4 short M5x0.8mm bolts included in the kit. Position the catch can bracket in place and secure the bolts.	
9	6mm Allen Wrench	Temporarily remove the catch can dipstick. Install one of the 10AN banjo fittings to the top port. Lubricate the O-ring prior to assembly. Reinstall the catch can dipstick.	
10	10mm Socket Wrench	Position the catch can assembly to the RH strut tower and secure the bracket using the provided flanged hex M6x1mm bolts.	

11	Hose Cutter	Cut a short section of the 5/8" (10AN) hose to 2" (51mm) length.	
12	Pliers	Insert the short hose to the PCV valve barb and secure using the provided spring clamp.	
13	Oil Lubrication	Lubricate the barbs on one side of the included 90 degree barb elbow. Fully seat the 90 degree barb elbow, as shown. NOTE: This connection does NOT require a clamp.	
14	Oil Lubrication	Lubricate the barbs on the opposing side of the 90 degree barb elbow. From the front of the vehicle, fully seat the provided 5/8" (10AN) hose, as shown. NOTE: This connection does NOT require a clamp.	
15	Hose Cutter Oil Lubrication	Loosely install a 90 degree PushLok hose end to the catch can side port fitting. Run the hose from the PCV valve to this hose end. Cut the hose to length factoring in some additional slack for engine movement. Lubricate the barbs on the PushLok hose end and fully seat into the hose, as shown. NOTE: PushLok hose ends do NOT require clamps.	
16	1" Wrench	As shown, tighten the hose end to the side catch can fitting. NOTE: An aluminum wrench will prevent surface finish marring.	

17	Oil Lubrication	Lubricate the barbs on the other 90 degree PushLok hose end. Fully seat the hose end into the leftover cut hose. NOTE: PushLok hose ends do NOT require clamps.	
18	1" Wrench	As shown, tighten the hose end to the top catch can fitting. NOTE: An aluminum wrench will prevent surface finish marring. Route this hose along the PCV valve hose from the previous steps.	
19	Hose Cutter Oil Lubrication Pliers	A "balance hose" hose will be constructed that connects the 2 press-in valve cover fittings. It will be located towards the front of the engine on top of the coil cover and igniter box. First, cut a short section of hose to 4.75" (121mm) length. Next, find 2 of the 45 degree SAE quick connector hose ends in the kit. Lubricate the barbs and install each into the short hose. As shown, secure with one of the provided spring clamps.	
20	Oil Lubrication	Swivel the press-in valve cover fittings so they are oriented 90 degrees apart. Lubricate the male portion of all the SAE quick connector fittings. To install the short hose, push the SAE quick connector hose ends into the SAE quick connect fittings until they "click" into place.	
21	Hose Cutter Oil Lubrication Pliers	Temporarily install the other 45 degree SAE quick connect hose end to the exhaust valve cover fitting and the 90 degree SAE quick connect hose end to the intake valve cover fitting. Lineup the hose coming from the PCV catch can top port towards the 90 degree SAE quick connect hose end (intake valve cover). Cut to length factoring in some additional slack for engine movement. Lubricate the 90 degree SAE quick connect hose end barbs and fully seat the hose. Secure with one of the provided spring clamps.	
22	Cutters	To secure the connection, push the SAE quick connect hose end onto the SAE quick connect fitting until it "clicks" into place. Use the provided cable zip ties to secure the hoses together. Be sure to keep the hoses away from hot areas, sharp areas, and moving parts. After cinched, cut the tails off the cable zip-ties.	

23	10mm Socket Wrench	Find the windshield wiper motor on the LH side of the firewall. Remove the two M6x1mm bolts in the locations shown.	
24	10mm Socket Wrench	Lineup the catch can bracket and secure using the OEM M6x1mm bolts.	
25	Oil Lubrication 6mm Allen Wrench	Temporarily remove the CCV catch can dipstick. Lubricate the O-rings and install the 10AN adapter fittings to the catch can ports. Reattach the dipstick to the catch can.	
26	Thread Locker 3mm Allen Wrench	Apply a medium strength threadlocker to the 4 short M5x0.8mm screws. Position the catch can mount in place and secure.	
27	Oil Lubrication	Lubricate the barbs on one of the 60 degree PushLok hose ends. Fully seat the hose end into the leftover cut hose. NOTE: PushLok hose ends do NOT require clamps.	
28		Loosely install the hose end to the catch can side port fitting, as shown. Do NOT tighten.	

29		First, insert the hose down underneath the windshield wiper motor and pull it out on the other side.	
30	3mm Allen Wrench	For added space for ABS vehicles: 1. The black plastic cap for the ABS relay can be temporarily removed. 2. The Torx bolt for the ABS relay can be temporarily removed. With some effort, this step can be performed without either of the above performed. When lowering the catch can down into the location shown, know that the side port fitting can swivel and the hose end can rotate. Secure the mount to the bracket using the 3 long M5x0.8mm screws.	
31	1" Wrench	Tighten the hose end once it is rotated appropriately.	
32	Hose Cutter Pliers	Route the hose to the turbo inlet barb and cut to length. NOTE: For aftermarket turbo inlet pipes, the barb must have a 5/8" (16mm) outer diameter. As shown, secure the connection using the provided spring clamp.	
33	Oil Lubrication	Lubricate the barbs on the other 60 degree PushLok hose end. Fully seat the hose end into the leftover hose. NOTE: PushLok hose ends do NOT require clamps.	
34	1" Wrench	As shown, route the hose between the windshield wiper motor and the ABS relay (if equipped). Install and tighten the hose end to the catch can top port fitting.	

35	Hose Cutter Oil Lubrication Pliers	Lineup the hose coming from the CCV catch can top port towards the SAE quick connect hose end (exhaust valve cover). Cut to length factoring in some additional slack for engine movement. Lubricate the barbs on the SAE quick connect hose end and fully seat into the hose. As shown, secure the connection using the provided spring clamp. FInally, push the SAE quick connect hose end onto the SAE quick connect fitting until it "clicks" into place.	
36	10mm Socket Wrench	Reconnect the battery. Start the engine and check for leaks. **INSTALLATION COMPLETE**