



Service Bulletin

PRELIMINARY INFORMATION

Subject: 2014 Chevrolet Cruze Diesel P0133 And Or P22FA

Models: 2014 Chevrolet Cruze
Equipped with the 2.0L (RPO-LUZ) 4-cyl Diesel Engine

The following diagnosis might be helpful if the vehicle exhibits the symptom(s) described in this PI.

Condition/Concern

A dealer may encounter a customer concern of a Service Engine Soon (SES) light on. During diagnosis the dealer may find DTCs P0133 and / or P22FA.

Recommendation/Instructions

If DTCs P0133 or P22FA are found, remove and inspect the Heated Oxygen Sensor (HO2S) and the NOx Sensor 1 (NOx1) for soot build up.

If found to be covered with soot, replace both sensors and continue with the remaining steps of this PI.



Soot Covered HO2S



Soot Covered NOx 1 Sensor

Refer to the latest versions of PIP5134 and PIP5145 for HO2S and NOx1 sensor ordering information.

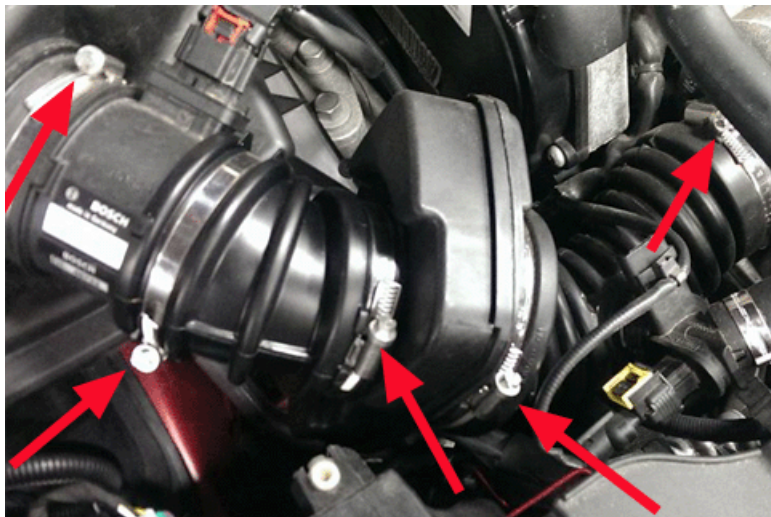
If the sensors are not covered with soot, complete the current SI diagnostic for the DTCs set or symptoms present.

Note: During replacement of the HO2S and NOx1 sensors be sure to transfer the retention features from the original sensors to the replacement sensors. There is a clip to transfer for the HO2S and a rubber grommet to transfer for the NOx1 sensor.

Tighten the Air Cleaner Outlet duct to PCV heater housing using welding wire, mechanic's wire (or similar) as shown below. The Air Cleaner Outlet Duct should be removed from the vehicle during this step.



Make sure all five (5) hose clamps between the air cleaner box and the turbocharger are tight. Refer to picture below for locations of the five hose clamps.



Conduct the Charge Air Cooler Diagnosis (Induction System Air Leak Test and Induction System Smoke Test) while manipulating the PCV heater and ductwork. To ensure all leaks are resolved, manipulate the ductwork and heater during the leak tests in the same manner in which you would expect them to move under normal driving conditions.

Parts Information

Part Number	Description	Qty	Reference PI Number
12641556	NOX 1 Sensor	1	PIP5134
12644786	Heated Oxygen Sensor	1	PIP5145

Warranty Information

For vehicles repaired under warranty use:

Labor Operation	Description	Labor Time
*4080738	Inspect NOX 1 Sensor and O2 Sensor	0.4 hr
Add	Replace NOx1 and O2 Sensor. Seal the Air Cleaner Outlet Duct to PCV heater housing. Make sure all five (5) hose clamps between air cleaner box and turbocharger are tight. Conduct Charge Air Cooler Diagnosis (Induction System Air Leak Test and Induction System Smoke Test)	1.1 hr

* This is a unique labor operation for bulletin use only. It will not be published in the Labor Time Guide.

Please follow this diagnostic or repair process thoroughly and complete each step.

GM bulletins are intended for use by professional technicians, NOT a "do-it-yourselfer". They are written to inform these technicians of conditions that may occur on some vehicles, or to provide information that could assist in the proper service of a vehicle. Properly trained technicians have the equipment, tools, safety instructions, and know-how to do a job properly and safely. If a condition is described, DO NOT assume that the bulletin applies to your vehicle, or that your vehicle will have that condition. See your GM dealer for information on whether your vehicle may benefit from the information.



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