

June 2017

Topic

Upstream oxygen sensor requirement on 2005 Chrysler/Dodge Caravan, Grand Caravan, Pacifica, and Town & Country equipped with 3.3L/3.8L engines

Issue

Should the pre-catalyst or upstream oxygen sensor on the vehicles listed above require replacement, a MIL illumination for DTC P0135 – 02 Sensor Bank 1 Sensor 1 Heater Performance may occur.

In mid-2004, Chrysler introduced a new pre-catalyst oxygen sensor specification for the 3.3L/3.8L engines. The new specification sensor runs on 100% duty cycle unlike the previous sensor that ran on a prescribed duty cycle and switched off the heater once the desired operating temperature had been achieved.

Installing the incorrect or previous model year sensors on 2005 and UP model year vehicles will lead to premature heater degradation and higher heater resistance.

Solution

Verify that the correct Pre-Catalyst oxygen sensor is installed.

2005 Model Year Upstream Oxygen Sensor

NTK Part #	OEM Part #	Production Date	Heater Resistance	Notes
23568	56029052AA	Up to July 8, 2004	2.0 to 2.8 ohms	with blue wire in sensor pigtail
23566	56029085AA	From July 9, 2004	7.5 to 10 ohms	

Additional information

If after the correct sensor replacement is performed, and if the problem still persists, reprogramming of the PCM is required.

For more information on reprogramming the PCM, refer to Chrysler service bulletin no: 18-010-05 REV.A

