



GROUP Engine	MODEL Sedona, Sorento, Amanti, Optima, Rondo
NUMBER 044 [Revised]	DATE November 2009

## TECHNICAL SERVICE BULLETIN

**SUBJECT:**

ECM UPGRADE WITH TP SENSOR REPLACEMENT – MIL ON WITH DTC P2135 / P0638

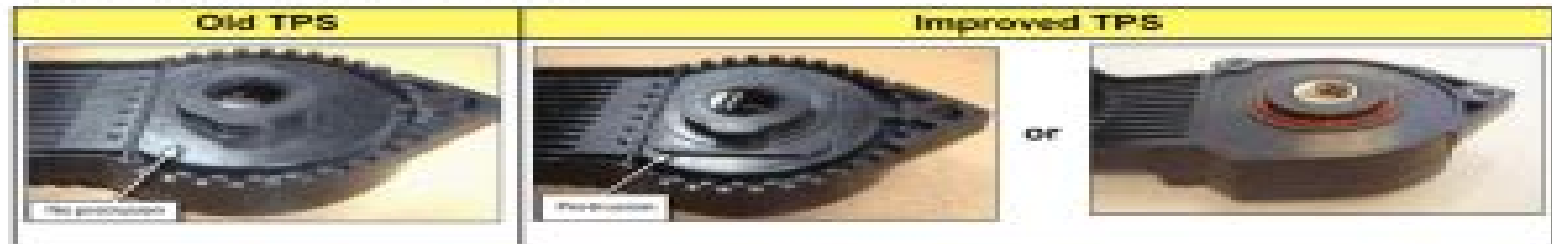
This bulletin provides information related to the ECM software and TP sensor upgrade on some Sedona (VQ), Sorento (BL) and Amanti (GH) with Delphi EMS, Optima (MG) and Rondo (UN) with 2.7L engines which may experience a Malfunction Indicator Lamp (MIL) illuminated with the Electronic Throttle Control (ETC) system-related DTC P2135 or P0638 or P2A00 or P2A03. Throttle body removal is not required to perform TP sensor replacement. The vehicle must have been produced prior to 4/1/2009.

- P2135: Throttle Position Sensor 1/2 Voltage Correlation
- P0638: Throttle Actuator Control Range / Performance
- P2A00, P2A03 or P2A04: Oxygen Sensor Related on 2.7L engine

These vehicles may set P1295 and/or P2106 as these are Forced Limited Power and Power Management DTC's. The main symptom of this condition is that the engine idles at a very low rate.

The ECM upgrade can improve DTC P0116 for vehicles equipped with block heater, catalyst damage related P0429, P0430 and P0300-306 (Due to poor fuel quality), oxygen sensor related DTC on Rondo (UN) equipped with 2.7L engine.

To correct this condition, the ECM should be reprogrammed using the GDS downloaded as described in this bulletin, and the TP Sensor replaced.



Global Diagnostic System (GDS)

File Under: Engine

Circulate To:  General Manager  Service Manager  Parts Manager  
 Service Advisor(s)  Technician(s)  Body Shop Manager  Fleet Repair

# Kia Technical Service Manuals

**United States. Department of the  
Army**



**Kia Technical Service Manuals:**

## **Kia Technical Service Manuals** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Kia Technical Service Manuals**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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