



Technical Service Bulletin

Model Sorento [BL], Sedona [GQ]

Group Fuel System(14)

Number KT2007040401

Date Wednesday, April 04, 2007

Area N. America

Subject

**Sorento/Sedona Throttle Position Sensor W/3.5L Engine
(Fuel System - 013)**

- Description

This bulletin provides information related to the Throttle Position Sensor (TPS) for Sorento & Sedona models. Some Sorento & Sedona vehicles may exhibit diagnostic trouble codes P0121 and/or P1121. This condition mainly occurs in high ambient or desert areas, and can be related to the occasional increase in contact resistance due to excessive wear of the inner elements of the TP sensor. This bulletin describes the proper service and adjustment procedure for replacing the TP Sensor.

***NOTICE**

This Service Bulletin applies to vehicles equipped with a 3.5L Engine only.

- Effective Vehicle Information

2003-2006 Sorento 3.5L

2002-2005 Sedona 3.5L

- Parts Information

Part Name	Previous Part No.	New Part No.
Throttle Position Sensor	35102 39000	35102 39000FFF

- Service Procedure

Replacement Procedure:

1. Turn ignition OFF. Remove engine cover and disconnect electrical connector from TP Sensor.

2. Remove two (2) retaining screws from TP Sensor and remove from throttle body.



3. Install new TP Sensor to throttle body. Install retaining screws and hand tighten lightly. Adjustment will be required. Re-install electrical connector to TP Sensor.

4. Install Global Diagnostic System.

a. Select "System Option"

b. Select "Idle RPM Adjust Mode"

c. Apply Parking Brake



5. Select Neutral position and place engine in idle condition with A/C OFF.

***NOTICE**

During this test, the MIL will be ON.



6. Remove rubber plug and adjust using instructions provided on screen.

Set Base idle between 800~900 rpm

***NOTICE**

Re-install the removed rubber plug when idle speed adjustment is complete.



Adjust TPS:

7. Using the GDS scan tool, monitor current data using two (2) parameters:

- Closed Throttle Position Switch
- Throttle Position Voltage Value

8. Open throttle by hand very slowly until idle switch status switches to OFF. Note the TPS voltage value.

Voltage: _____

9. Close throttle and record the TPS voltage.

Voltage: _____

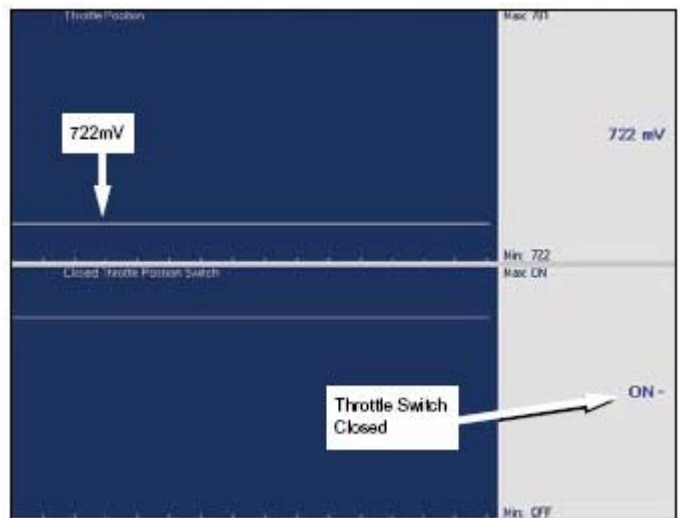
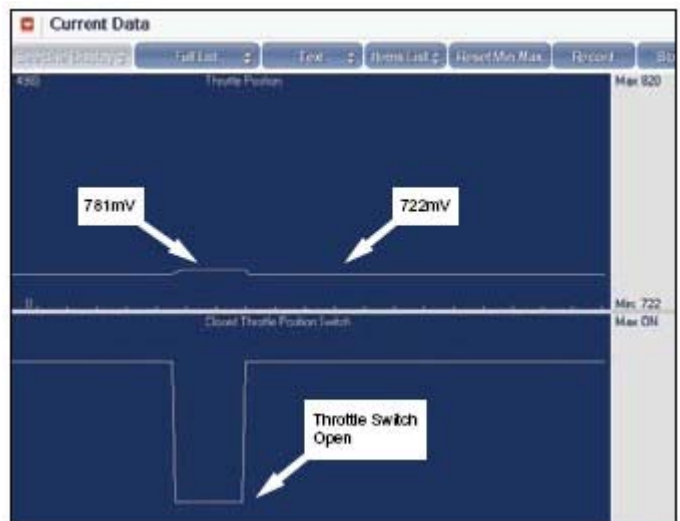
Closed throttle voltage should be 30~65mV less than the voltage noted in step eight (8).

Adjust TP Sensor and repeat test as required.

Example:

- Open Throttle Switch Voltage: 781mV
- Closed Switch Voltage: 722mV (subtract from Open Switch value)

Voltage Difference: .59mV (**Spec:30~65mV**)



10. Tighten TP Sensor screws as required. Torque is 12~18 inch lbs. Verify switching of throttle switch with throttle plate movement.

11. Install engine cover.

12. Clear any stored DTC which may have set during service procedure. Remove GDS tool from vehicle.

WARRANTY CLAIM INFORMATION:

Claim Type	Causal P/N	Qty.	N Code	C Code	Repair Description	Labor Op Code	Time	Related Parts	Qty.
W	35102 39000	1	N69	C11	R&R Throttle Position Sensor	30102F00	0.3	35102 39000FFF	1