

**AFFECTED VEHICLE****MAKE** HYUNDAI**MODEL** TUCSON (JM)**VERSION** 2.0 (G4GC) 104 KW 141 HP 1975 Cm3**SYMPTOMS:**

**P0011** - Camshaft position A. Timing over-advanced or out of range. System failure.

**P0021** - Camshaft position sensor. Advanced performance. (Bank 2).

The vehicle displays one or several of the above-mentioned fault codes.

Fault codes recorded in the engine control unit.

Engine warning light (MIL) ON.

Unstable idling.

Poor acceleration.

Power loss.

Poor combustion.

Difficulty when starting the engine.

**NOTE:** This informative bulletin only affects those vehicles with variable valve timing control.

**POSSIBLE CAUSE/S:**

Defect in the variable timing valve.

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**NOTE:** The above-mentioned fault codes may be accompanied by other fault codes related to variable timing.

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### **SOLUTION:**

#### **Repair procedure:**

- Read the fault codes recorded in the engine control unit using the diagnostic tool.
- Confirm that the fault codes related to the variable timing valve are recorded.
- Confirm that the symptoms mentioned in the field symptoms of this bulletin are reproduced.
- Check the condition of the variable timing valve and the connection (rust on the contacts).
- Check the condition of the variable timing valve wiring, and repair it if necessary.
- Check that the variable timing valve is supplied with the correct oil pressure and that it is not clogged.
- Disconnect the variable timing valve.
- **Check the resistance between the two pins of the connector at an ambient temperature of 20 °C (68 °F):**

**Siemens:** Resistance between 6.8 and 8 Ohm.

**Denso:** Resistance between 6.9 and 7.9 Ohm.

**Delphi:** Resistance between 6.7 and 7.7 Ohm.

- Replace the variable timing valve if the values are not correct.
- Remove the variable timing valve if the values are correct.
- Check the variable valve for mechanical damage or metal chips. Clean it with compressed air or replace it if necessary. See picture 1.

#### **See image:**

**A** - Variable timing valve.

IMAGE:

