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2003 CHEVROLET Celta - 3 doors OEM Service and Repair Workshop Manual

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- DTC P0016, P0030, P0036, P0053, P0054, P0056, P0059, P0060, P0101, P0102, P0103, P0106, P0107, P0108, P0111, P0112, P0113, P0114, P0116, P0117, P0118, P0128, P0131–P0135, P0137, P0138, P013A, P013B, P013C, P013D, P013E, P013F, P0140, P0141, P0151– P0155, P0157, P0158, P015A, P015B, P015C, P015D, P0160, P0161, P0201–P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, P0283, P0300–P0308, P0340, P0341, P0442, P0443, P0446, P0449, P0452, P0453, P0455, P0458, P0459, P0496, P0498, P0499, P1248, P1249, P124A, P124B, P124C, P124D, P124E, P124F, P2147, P2148, P2150, P2151, P2153, P2154, P2156, P2157, P216B, P216C, P216E, P216F, P217B, P217C, P217E, P217F, P219A, P219B, P2227, P2228, P2229, P2230, P2270, P2271, P2272, or P2273 is not set.
- The barometric pressure is greater than 70 kPa (10.2 PSI).
- The manifold absolute pressure is between 0–200 kPa (0–29 PSI).
- The intake air temperature is between –20°C and +200°C (-4 and +392°F).
- The start up engine coolant temperature is warmer than –20°C (–4°F).
- The fuel control intrusive diagnostics are not active.
- The engine is operating under light acceleration or cruise conditions.
- DTCs P2096, P2097, P2098, and P2099 run continuously when the conditions above have been met.

Conditions for Setting the DTC

The correction limit for a condition causing a rich or lean air/fuel ratio has been exceeded.

Action Taken when the DTC Sets

DTCs P2096, P2097, P2098, and P2099 are Type B DTCs.

Conditions for Clearing the MIL/DTC

DTCs P2096, P2097, P2098, and P2099 are Type B DTCs.

Diagnostic Aids

- The post catalyst fuel trim diagnostic is very sensitive to heated oxygen sensor (HO2S) design. A non-OE sensor or an incorrect part number may cause a DTC to set.
- Certain aftermarket air filters may cause a DTC to set.

Refer to Circuit/System Testing.

- **If no DTC is set**

4. Operate the vehicle within the Conditions for Running the DTC. You may also operate the vehicle within the conditions that you observed in the Freeze Frame/Failure Records data.
5. Verify DTC P2096, P2097, P2098, or P2099 is not set.
   - **If a DTC is set**

     Refer to Circuit/System Testing.
   - **If no DTC is set**
6. All OK.

Circuit/System Testing

Verify none of the conditions listed below exist:

P2096 or P2098

- Air intake duct collapsed or restricted.
- Air filter dirty or restricted.
- Contamination of the mass air flow sensor with oil or other foreign material
- Objects blocking the throttle body.
- Excessive fuel in the crankcase. Change engine oil as necessary.
- Rich fuel injectors. Refer to Fuel Injector Diagnosis.
- Excessive fuel system pressure. Refer to Fuel System Diagnosis.
- Fuel contamination. Refer to Alcohol/Contaminants-in-Fuel Diagnosis.
- Fuel saturation of the evaporative emissions (EVAP) canister.
- Stuck open or leaking EVAP purge valve.
- Restricted exhaust. Refer to Symptoms - Engine Exhaust.
- Improper operation of the crankcase ventilation system.

P2097 or P2099

- Exhaust system leaks. Refer to Symptoms - Engine Exhaust.

YOUR CURRENT VEHICLE

DTC P2122, P2123, P2127, P2128, or P2138

DTC P2122, P2123, P2127, P2128, or P2138

Diagnostic Instructions

- Perform the Diagnostic System Check - Vehicle prior to using this diagnostic procedure.
- Review Strategy Based Diagnosis for an overview of the diagnostic approach.
- Diagnostic Procedure Instructions provides an overview of each diagnostic category.

DTC Descriptors

DTC P2122	Accelerator Pedal Position (APP) Sensor 1 Circuit Low Voltage
DTC P2123	Accelerator Pedal Position (APP) Sensor 1 Circuit High Voltage
DTC P2127	Accelerator Pedal Position (APP) Sensor 2 Circuit Low Voltage
DTC P2128	Accelerator Pedal Position (APP) Sensor 2 Circuit High Voltage
DTC P2138	Accelerator Pedal Position (APP) Sensors 1-2 Not Plausible

Diagnostic Fault Information

Circuit	Short to Ground	High Resistance	Open	Short to Voltage	Signal Performance
Accelerator Pedal Position (APP) Sensor 1 5 V Reference Circuit	P06A3	P2138	P2122	P06A3	P2138

Circuit	Short to Ground	Open	Short to Voltage
Parameter Normal Range: APP Sensor 2 0.39–0.59 V			
5 V Reference	0.00 V	0.00 V	1–3 V
Signal	0.00 V	0.00 V	2–5 V
Low Reference	—	4–5 V	—

Circuit/System Description

The accelerator pedal assembly contains 2 accelerator pedal position (APP) sensors. The APP sensors are mounted to the accelerator pedal assembly and are not serviceable. The APP sensors provide a signal voltage that change relative to pedal position. The engine control module (ECM) supplies each APP sensor with a 5 V reference circuit, a low reference circuit, and a signal circuit.

Both the APP sensors 1 and 2 signal percentages increase as the pedal is depressed, from approximately 0 percent at rest to above 95 percent when fully depressed.

Conditions for Running the DTC

P2122, P2123, P2127, or P2128

- DTC P06A3 or P0697 are not set.
- The ignition is ON or the engine is operating.
- The ignition voltage is greater than 6.41 V.
- The DTCs run continuously when the above conditions are met.

P2138

- DTCs P06A3, P0697, P2122, P2123, P2127, or P2128 are not set.
- The ignition is ON or the engine is operating.
- The ignition voltage is greater than 6.41 V.
- The ECM is not commanding reduced power.
- The DTC runs continuously when the above conditions are met.