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2001 CHEVROLET Celta - 3 doors OEM Service and Repair Workshop Manual

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- **If DTC P0070 is set**

8. Perform all necessary programming and setup procedures for the control module:P16 Instrument Cluster
9. Verify DTC P0070 is not set.
    - **If the DTC is not set**

      All OK.
    - **If DTC P0070 is set**
10. Perform all necessary programming and setup procedures for the control module:K9 Body Control Module
11. Verify DTC P0070 is not set.
    - **If the DTC is not set**

      All OK.
    - **If DTC P0070 is set**
12. Perform all necessary programming and setup procedures for the control module:K20 Engine Control Module
13. Verify DTC P0070 is not set.
    - **If the DTC is not set**

      All OK.
    - **If DTC P0070 is set**
14. Replace the control module: K20 Engine Control Module

Repair Instructions

Perform the Diagnostic Repair Verification after completing the repair: Diagnostic Repair Verification

- For control module replacement, programming, and setup refer to: Control Module References

Typical Scan Tool Data

ECT Sensor

Circuit	Short to Ground	Open	Short to Voltage
Operating Conditions: Engine operating in Closed Loop **Parameter Normal Range:** Varies with oil temperature			
ECT Sensor Signal	140°C (284°F)	−40°C (−40°F)	−40°C (−40°F)
Low Reference	—	−40°C (−40°F)	—

Circuit/System Description

The engine oil temperature (EOT) sensor is a variable resistor that measures the temperature of the engine oil. The engine control module (ECM) supplies 5 volts on the EOT sensor signal circuit and a ground for the low reference circuit. This diagnostic checks for an open, short to ground, or an intermittent circuit condition between the ECM and EOT sensor.

Conditions for Running the DTC

P0196 or P0199

- The engine speed is greater than 25 RPM.
- The engine oil temperature EOT is between −35 to +170°C (−31 to +338°F).
- The DTC runs continuously when the above enable conditions are met for greater than 10 seconds.

P0197

This DTC runs continuously.

P0198

- The engine is running for greater than 20 s.

  OR

- The ignition is ON and the engine coolant temperature (ECT) is greater than −20°C (−4°F).
- This DTC runs continuously when the above conditions are met.

Scan Tool Reference

Control Module References for scan tool information

Circuit/System Verification

1. Ignition ON.
2. Verify the scan tool EOT Sensor parameter is between −39 to +120°C (−38 to +248°F) and changes with engine run time.
   - **If not between −39 to +120°C (−38 to +248°F) or does not change**

     Refer to Circuit/System Testing.
   - **If between −39 to +120°C (−38 to +248°F) and changes**
3. Operate the vehicle within the Conditions for Running the DTC. You may also operate the vehicle within the conditions that you observed from the Freeze Frame/Failure Records data.
4. Verify the DTC does not set.
   - **If the DTC sets**

     Refer to Circuit/System Testing.
   - **If the DTC does not set**
5. All OK.

Circuit/System Testing

1. **NOTE**

   Note

   You must perform the Circuit/System Verification before proceeding with Circuit/System Testing.

   Ignition OFF and all vehicle systems OFF, disconnect the harness connector at the B36 Engine Oil Temperature Sensor. It may take up to 2 minutes for all vehicle systems to power down.
2. Test for less than 10 Ω between the low reference circuit terminal A and ground.
   - **If 10 Ω or greater**
     1. Ignition OFF, disconnect the harness connector at the K20 Engine Control Module.
     2. Test for less than 2 Ω in the low reference circuit end to end.

- Displays and Gauges Component Replacement Reference
- Control Module References for control module replacement, programming, and setup