

# From No-Start to Finish

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**2004 Nissan Sentra 1.8L, Eng Des QG18DE** Jeff Stitt - MoCo

**Hotline Archive** *With OEM Direct diagrams, components, TSBs, and R&R procedures* [« Back](#) [Remove Bookmark](#) [Print Preview](#) [Print](#)

**Number:** 374027

**Vehicle Application:** 2004 Sentra 1.8

**Customer Concern:** Check engine light is on with code P0183, Fuel Temperature sensor.

**Average Reported Mileage:** 0

**Tests/Procedures:**

1. Remove the rear seat, locate and remove the fuel pump access cover, there should be a 5 pin Grey connector. Backprobe the Orange wire using a voltmeter, the Engine Control Module (ECM) sends out a 5 V reference to the fuel tank temperature sensor, there should be 3.5V on the Orange wire at 70°F and 2.2V at 122°F.
2. If the voltage is incorrect, replace the fuel tank temperature sensor.
3. If there is no 5 V reference on the Orange wire at fuel tank temperature sensor, check the ECM terminal 107 for a 5 V reference.

**Tech Tips:** The fuel tank temperature sensor is used to detect the fuel temperature inside the fuel tank.

**Author:** [Eric Betts](#)

**Diagnostic Codes**

- P0183

**Potential Causes**

- With OEM Direct diagrams, components, TSBs, and R&R procedures*
- [Engine Control Module \(ECM\)](#)
- [Fuel Tank Pressure \(FTP\) Sensor Connector](#)
- [Fuel Tank Temperature Sensor](#)

**Confirmed Fix Summary**

- Confirmed Fix**
- With OEM Direct diagrams, components, TSBs, and R&R procedures*
- 3 - Fuel Tank Temperature Sensor
  - [Wiring Diagrams](#)
  - [Remove and Replace](#)
  - [REMOVAL AND INSTALLATION \(DTC P0181 FTT SENSOR\)\(QG18DE\)\(EC - ENGINE CONTROL SYSTEM\)\(B: ENGINE\)](#)
  - [REMOVAL AND INSTALLATION \(DTC P0182, P0183 FTT SENSOR\)\(QG18DE\)\(EC - ENGINE CONTROL SYSTEM\)\(B: ENGINE\)](#)
  - [REMOVAL AND INSTALLATION \(DTC P1279 A/F SENSOR 1\)\(EC - ENGINE CONTROL SYSTEM\)\(B: ENGINE\)](#)
  - [REMOVAL AND INSTALLATION \(DTC P0181 FTT SENSOR\)\(QR25DE\)\(EC - ENGINE CONTROL SYSTEM\)\(B: ENGINE\)](#)
  - [REMOVAL AND INSTALLATION \(DTC P0182, P0183 FTT SENSOR\)\(QR25DE\)\(EC - ENGINE CONTROL SYSTEM\)\(B: ENGINE\)](#)
  - [A/F FUEL RATIO SENSOR](#)
  - [REMOVAL \(FUEL LEVEL SENSOR UNIT, FUEL FILTER AND FUEL PUMP ASSEMBLY\)\(FL - FUEL SYSTEM\)\(B: ENGINE\)](#)

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[Specifications/Capacities](#)  
[Component Locations](#)  
[Pin-Out/Connector Views](#)  
[Other](#)

- 2 - Fuel Pump / Sending Unit Assembly

**Confirmed Fix Details**

Tech	Reported Fix Details	Confirmed Fix
Mike Trippiedi October 07, 2009	2004 Nissan Sentra, 1.8L, Eng Des QG18DE Fuel Tank Temperature Sensor - FTT SENSOR. INSTALLED 2 DIFFERENT AFTERMARKET FUEL PUMPS FOR A DRIVEABILITY ISSUE. MIL LIGHT KEPT COMING ON WITH A P0183 CODE. IT WAS THEN I REALIZED THE NEW PUMPS DIDNT NOT COME WITH A SENSOR. CUT OUT THE SENSOR FROM THE OLD PUMP AND SOLDERED ON THE NEW PUMP PROBLEM SOLVED.	Fuel Tank Temperature Sensor

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Removal and Installation

**DTC P0182, P0183 FTT SENSOR [QR25DE]**

**DTC P0182, P0183 FTT SENSOR** PFP:22500  
 U98034RT  
 EC

**Component Description**

The fuel tank temperature sensor is used to detect the fuel temperature inside the fuel tank. The sensor modifies a voltage signal from the ECM. The modified signal returns to the ECM as the fuel temperature input. The sensor uses a thermistor which is sensitive to the change in temperature. The electrical resistance of the thermistor decreases as temperature increases.

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