

Description: This DTC sets when the cylinder head temperature (CHT) sensor is out of self-test range. The engine is not at a normal operating temperature.

Possible Causes:

- Cold engine
- Engine overheating
- Low engine coolant level
- Damaged CHT harness connector
- Damaged CHT sensor

Diagnostic Aids: Bring the engine to operating temperature and repeat the self-test. If the engine overheats, check the cooling system. Refer to the service information , Engine Cooling, to diagnose the engine overheats symptom.

Application	Key On Engine Off	Key On Engine Running	Continuous Memory
All	GO to Pinpoint Test DL .		

DIAGNOSTIC TROUBLE CODE (DTC) CHARTS AND DESCRIPTIONS > P1021 - CYLINDER HEAD TEMPERATURE SENSOR 2 CIRCUIT RANGE/PERFORMANCE - DTC CHART

P1021 - CYLINDER HEAD TEMPERATURE SENSOR 2 CIRCUIT RANGE/PERFORMANCE - DTC CHART

Description: This DTC sets when the cylinder head temperature value is higher than the calibrated value and could prevent one or more on board diagnostic (OBD) monitors from completing. The PCM runs this logic after an engine off and a calibrated soak period (typically 6 hours). This soak period allows the intake air temperature and the cylinder head temperature to stabilize and not differ by greater than a calibrated value. This DTC sets when all of the following conditions are met:
The cylinder head temperature at engine start exceeds the intake air temperature at engine start by greater than a calibrated value, typically 17°C (30°F).
The cylinder head temperature exceeds a calibrated value, typically 107°C (225°F).
The fuel system, heated oxygen and misfire monitors have not completed.
The calibrated time to set this DTC has expired.

Possible Causes:

- Cylinder head temperature 2 (CHT2) sensor
- Coolant system concern

Diagnostic Aids: Make sure the intake air temperature and the cylinder head temperature are similar when the engine is cold. Also make sure the CHT sensor and the actual engine operating temperatures are the same.