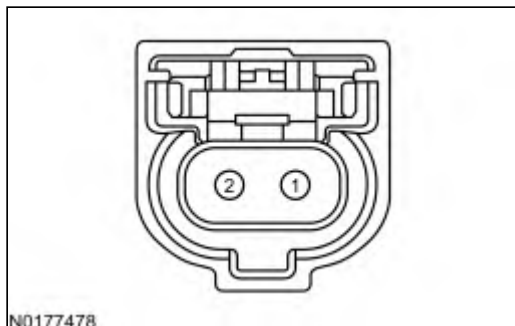


DS: Exhaust Gas Recirculation Temperature (EGRT) Sensor

This pinpoint test is intended to diagnose the following:

- harness circuits: EGRT12, and SIGRTN
- exhaust gas recirculation temperature bank 1, sensor 2 (EGRT12)

Exhaust Gas Recirculation Temperature Bank 1, Sensor 2 (EGRT12) Sensor Connector

Pin	Circuit
2	SIGRTN (Signal Return)
1	EGRT12 (Exhaust Gas Recirculation Temperature Bank 1, Sensor 2)

Powertrain Control Module (PCM) Connector

For PCM connector views or reference values, refer to Section 6, Reference Values.

Vehicle	Connector	Pin	Circuit
Corsair 2.5L, Escape/Kuga 2.5L	198 PIN	E35 E76	SIGRTN EGRT12
F-150	306 PIN	E99 E96	SIGRTN EGRT12
All other vehicles	198 PIN	E13 E69	SIGRTN EGRT12

DS1 CHECK FOR DTCS

Are DTCs P041B, P041C or P041D present?

Yes	GO to DS2 .
No	For symptoms without DTCs, GO to DS2 .

For all others, RETURN to Section 3, Symptom Charts for further direction.
--

DS2 CHECK THE EGRT12 SENSOR

- Inspect the EGRT12 sensor circuits at the sensor and the PCM.

Is a concern present?

Yes	REPAIR as necessary. Clear the PCM DTCs. REPEAT the self-test.
No	GO to DS3 .

DS3 CHECK FOR AN OPEN

- Ignition OFF.
- EGRT12 Sensor connector disconnected.
- PCM connector disconnected.
- Measure the resistance between:

(+) EGRT12 Sensor Connector, Harness Side	(-) PCM Connector, Harness Side
EGRT12 - Pin 1	EGRT12
SIGRTN - Pin 2	SIGRTN

Are the resistances less than 5 ohms?

Yes	GO to DS4 .
No	REPAIR the open circuit. Clear the PCM DTCs. REPEAT the self-test.

DS4 CHECK FOR A SHORT TO GROUND

- Measure the resistance between:

(+) EGRT12 Sensor Connector, Harness Side	(-)
EGRT12 - Pin 1	Ground

Is the resistance greater than 10K ohms?

Yes	GO to DS5 .
No	REPAIR the short circuit. Clear the PCM DTCs. REPEAT the self-test.

DS5 CHECK FOR A SHORT TO VOLTAGE

- Ignition ON, engine OFF.
- Measure the voltage between:

(+) EGRT12 Sensor Connector, Harness Side	(-)
EGRT12 - Pin 1	Ground

Is any voltage present?

Yes	REPAIR the short circuit. Clear the PCM DTCs. REPEAT the self-test.
No	GO to DS6 .

DS6 CHECK THE EGRT SENSOR OPERATION

- Ignition OFF.
- EGRT12 Sensor connector connected.
- PCM connector connected.
- Ignition ON, engine OFF.
- Access the PCM and monitor the EGRT12 (TEMP) PID.
- Record the PID value.
- Drive the vehicle while monitoring the PID.
- Engine at normal operating temperature.
- Record the PID value.

Does the PID value increase?

Yes	For symptoms without DTCs, RETURN to Section 3, Symptom Charts for further direction. For all others, GO to Pinpoint Test Z .
No	INSTALL a new EGRT sensor. REFER to the Workshop Manual Section 303-08, Engine Emission Control. Clear the PCM DTCs. REPEAT the self-test.