

## DIAGNOSTIC TROUBLE CODE (DTC) CHARTS AND DESCRIPTIONS > P1117 - ENGINE COOLANT TEMPERATURE (ECT) SENSOR CIRCUIT INTERMITTENT - DTC CHART

### P1117 - ENGINE COOLANT TEMPERATURE (ECT) SENSOR CIRCUIT INTERMITTENT - DTC CHART

**Description:** This DTC sets when the ECT circuit is intermittently open or short while the engine is running.

**Possible Causes:**

- Damaged ECT harness or connector
- Damaged ECT sensor
- ECT circuit open
- ECT circuit short to ground
- Low engine coolant

**Diagnostic Aids:** Monitor the ECT PID on a scan tool. Look for sudden changes in the reading when the harness is wiggled or the sensor is tapped.

| Application | Key On Engine Off        | Key On Engine Running | Continuous Memory |
|-------------|--------------------------|-----------------------|-------------------|
| All         | GO to Pinpoint Test DX . |                       |                   |

## DIAGNOSTIC TROUBLE CODE (DTC) CHARTS AND DESCRIPTIONS > P111B - ENGINE COOLANT WARM-UP NOT DETECTED - DTC CHART

### P111B - ENGINE COOLANT WARM-UP NOT DETECTED - DTC CHART

**Description:** This DTC sets when the engine coolant temperature does not rise by a calibrated threshold value when compared to the inferred engine coolant temperature.

**Possible Causes:**

- Low engine coolant
- Damaged heater core shut off valve
- Damaged coolant bypass valve
- Damaged ECT sensor

**Diagnostic Aids:** Verify the engine cooling system is operating correctly. Refer to the service information , Engine Cooling.

| Application | Key On Engine Off        | Key On Engine Running | Continuous Memory |
|-------------|--------------------------|-----------------------|-------------------|
| All         | GO to Pinpoint Test DX . |                       |                   |