

# ENGINE COOLANT TEMPERATURE (ECT) SENSOR INSPECTION [LF]

B3E014018840W08

## Resistance Inspection

### Note

- Before performing the following inspection, make sure to follow the procedure as indicated in the troubleshooting flowchart.

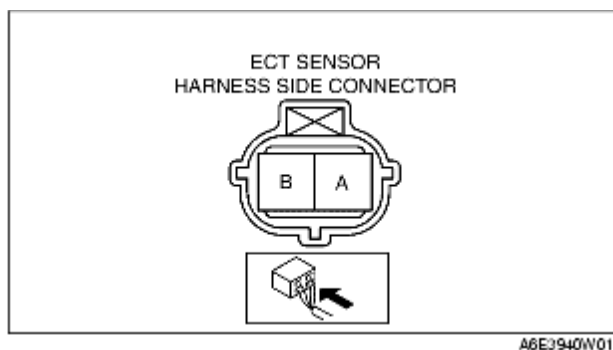
1. Disconnect the ECT sensor connector.
2. Remove the ECT sensor. (See [ENGINE COOLANT TEMPERATURE \(ECT\) SENSOR REMOVAL/INSTALLATION \[LF\]](#).)
3. Place the ECT sensor in the water and while increasing the water temperature, measure the resistance between ECT sensor terminals A and B.

- If the monitor item status/specification (reference) is not within the specification, even though the ECT sensor resistance is within the specification, perform the "Circuit Open/Short Inspection".
- If not within the specification, replace the ECT sensor.

### Standard

Water temperature (°C {°F})	Resistance (kilohm)
20 {68}	35.48-39.20
70 {158}	5.07-5.60
80 {176}	3.65-4.02

## Circuit Open/Short Inspection



1. Disconnect the PCM connector. (See [PCM REMOVAL/INSTALLATION \[LF\]](#).)
2. Inspect the following wiring harnesses for open or short. (Continuity check)

### Open circuit

- If there is no continuity, the circuit is open. Repair or replace the harness.

- ECT sensor terminal A and PCM terminal 2AK
- ECT sensor terminal B and PCM terminal 2AA

### **Short circuit**

- If there is continuity, the circuit is shorted. Repair or replace the harness.
- ECT sensor terminal A and power supply
- ECT sensor terminal A and body GND
- ECT sensor terminal B and power supply