ENGINE COOLANT TEMPERATURE (ECT) SENSOR INSPECTION[L3 Turbo]

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Note
- Before performing the following inspection, make sure to follow the procedure as indicated in the troubleshooting flowchart. (See HOW TO USE THIS MANUAL.)

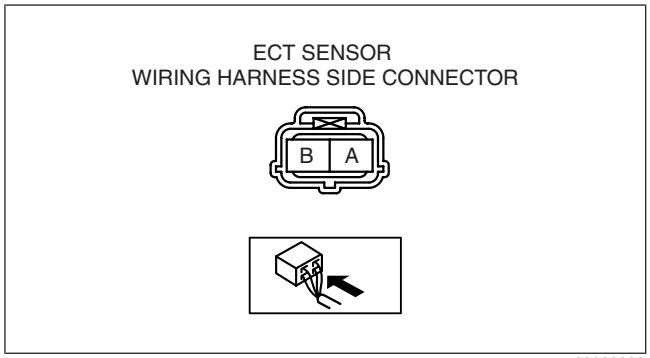
ECT Sensor Resistance Inspection

1. Drain the engine coolant. (See COOLING SYSTEM SERVICE WARNINGS[L3 Turbo].)
2. Remove the ECT sensor (located above the starter).
3. Place the ECT sensor in water with a thermometer, and heat the water gradually.
4. Measure the resistance between the ECT sensor terminals A and B using a tester.
   - If not as specified, replace the ECT sensor.
   - If the ECT sensor is normal, but PID value is out of specification, perform the “Circuit Open/Short Inspection”.

Specification

Water temperature (°C {°F})	Resistance (kilohm)
20 {68}	35.48—39.20
80 {176}	3.65—4.02

Circuit Open/Short Inspection



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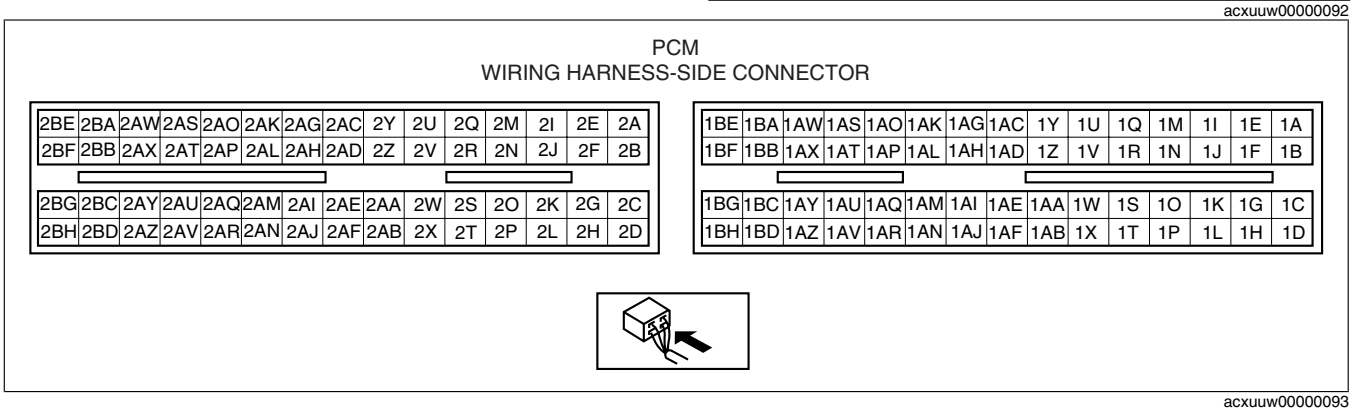

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1. Disconnect the PCM connector. (See PCM REMOVAL/INSTALLATION[L3 Turbo].)
2. Inspect the following wiring harnesses for an open or short circuit. (Continuity check)

Open circuit
- If there is no continuity, there is an open circuit. Repair or replace the wiring harness.
  - — ECT sensor terminal A and PCM terminal 2AH
  - — ECT sensor terminal B and PCM terminal 2AY

Short circuit
- If there is continuity, there is a short circuit. Repair or replace the wiring harness.
  - — ECT sensor terminal A and power supply
  - — ECT sensor terminal A and body ground
  - — ECT sensor terminal B and power supply