

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

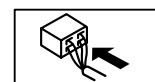
- Drain the engine coolant. (See COOLING SYSTEM SERVICE WARNINGS[L3 Turbo].)
- Remove the ECT sensor (located above the starter).
- Place the ECT sensor in water with a thermometer, and heat the water gradually.
- Measure the resistance between the ECT sensor terminals A and B using a tester.
 - If not 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

ECT SENSOR
WIRING HARNESS SIDE CONNECTOR

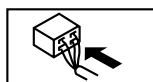


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PCM
WIRING HARNESS-SIDE CONNECTOR

2BE	2BA	2AW	2AS	2AO	2AK	2AG	2AC	2Y	2U	2Q	2M	2I	2E	2A
2BF	2BB	2AX	2AT	2AP	2AL	2AH	2AD	2Z	2V	2R	2N	2J	2F	2B
2BG	2BC	2AY	2AU	2AQ	2AM	2AI	2AE	2AA	2W	2S	2O	2K	2G	2C
2BH	2BD	2AZ	2AV	2AR	2AN	2AJ	2AF	2AB	2X	2T	2P	2L	2H	2D

1BE	1BA	1AW	1AS	1AO	1AK	1AG	1AC	1Y	1U	1Q	1M	1I	1E	1A
1BF	1BB	1AX	1AT	1AP	1AL	1AH	1AD	1Z	1V	1R	1N	1J	1F	1B
1BG	1BC	1AY	1AU	1AQ	1AM	1AI	1AE	1AA	1W	1S	1O	1K	1G	1C
1BH	1BD	1AZ	1AV	1AR	1AN	1AJ	1AF	1AB	1X	1T	1P	1L	1H	1D



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- Disconnect the PCM connector. (See PCM REMOVAL/INSTALLATION[L3 Turbo].)
- 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