

INTAKE AIR TEMPERATURE (IAT) SENSOR INSPECTION[L3 Turbo]

id0140b6802200

Resistance Inspection

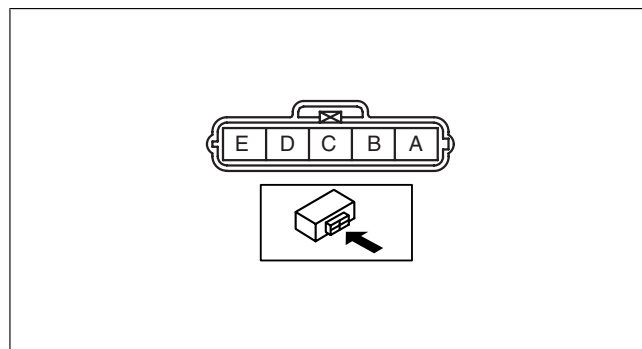
Note

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

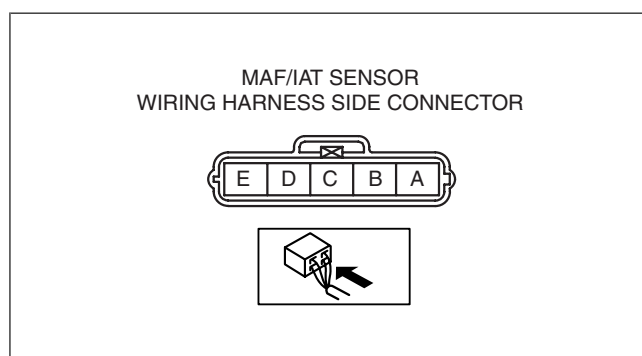
- Disconnect the MAF/IAT sensor.
- Measure the resistance between the MAF/IAT sensor terminals D and E using a tester.
 - If not as specified, replace the MAF/IAT sensor. (See INTAKE AIR SYSTEM REMOVAL/INSTALLATION[L3 Turbo].)
 - If the MAF/IAT sensor is normal, but the PID is out of specification, perform the "Circuit Open/Short Inspection".

Specification

Ambient temperature (°C {°F})	Resistance (kilohm)
20 {68}	2.21—2.69
60 {140}	0.493—0.667



Circuit Open/Short Inspection



PCM WIRING HARNESS-SIDE CONNECTOR																							
2BE	2BA	2AW	2AS	2AO	2AK	2AG	2AC	2Y	2U	2Q	2M	2I	2E	2A	1BE	1BA	1AW	1AS	1AO	1AK	1AG	1AC	1Y
2BF	2BB	2AX	2AT	2AP	2AL	2AH	2AD	2Z	2V	2R	2N	2J	2F	2B	1BF	1BB	1AX	1AT	1AP	1AL	1AH	1AD	1Z
2BG	2BC	2AY	2AU	2AQ	2AM	2AI	2AE	2AA	2W	2S	2O	2K	2G	2C	1BG	1BC	1AY	1AU	1AQ	1AM	1AI	1AE	1AA
2BH	2BD	2AZ	2AV	2AR	2AN	2AJ	2AF	2AB	2X	2T	2P	2L	2H	2D	1BH	1BD	1AZ	1AV	1AR	1AN	1AJ	1AF	1AB

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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.
 - MAF/IAT sensor terminal D and PCM terminal 1M
 - MAF/IAT sensor terminal E and PCM terminal 1AR

Short circuit

- If there is continuity, there is a short circuit. Repair or replace the wiring harness.
 - MAF/IAT sensor terminal E and power supply
 - MAF/IAT sensor terminal D and power supply
 - MAF/IAT sensor terminal D and body ground