

# INTAKE AIR TEMPERATURE (IAT) SENSOR INSPECTION [ZJ, Z6]

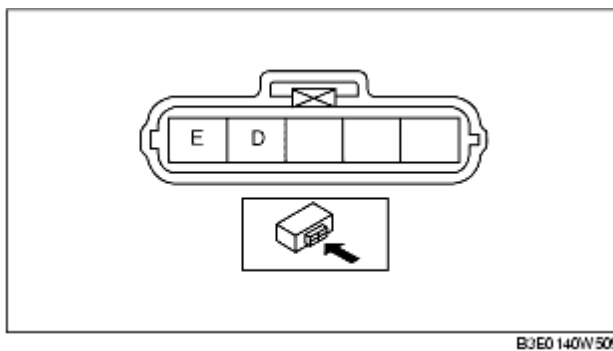
B3E014018840W06

## Note

- Before performing the following inspection, make sure to follow the procedure as indicated in the troubleshooting flowchart. (See [Troubleshooting Procedure](#).)

## Resistance Inspection

1. Disconnect the MAF/IAT sensor connector.
2. Verify that the resistance between terminals D and E is within the specification.



- If not within the specification, replace the MAF/IAT sensor. (See [MASS AIR FLOW \(MAF\)/INTAKE AIR TEMPERATURE \(IAT\) SENSOR REMOVAL/INSTALLATION \[ZJ, Z6\]](#).)
- If the monitor item condition/specification (reference) is not within the specification, even though there is no malfunction, perform the "Circuit Open/Short Inspection".

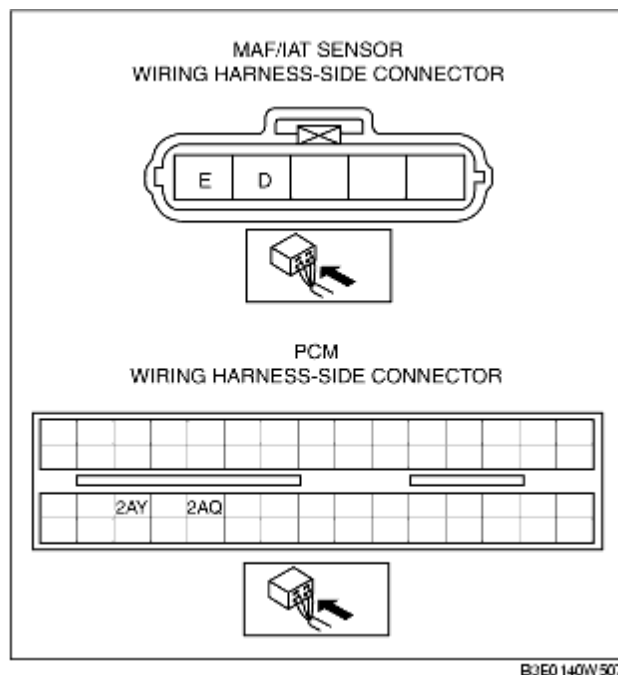
### IAT sensor resistance

Ambient temperature (°C {°F})	Resistance (kilohm)
-20 {-4}	13.618.4
20 {68}	2.212.69
60 {140}	0.4930.667

### IAT sensor characteristics graph (reference)

## Circuit Open/Short Inspection

1. Remove the PCM connector cover.
2. Disconnect the PCM connector. (See [INTAKE-AIR SYSTEM REMOVAL/INSTALLATION \[ZJ, Z6\].](#))
3. Inspect the following wiring harness for 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 2AQ
  - MAF/IAT sensor terminal E and PCM terminal 2AY

### Short circuit

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