

# MASS AIR FLOW (MAF) SENSOR INSPECTION [ZJ, Z6]

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B3E014013215W03

## Note

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

## Visual inspection

1. Visually inspect the MAF sensor for the following:

- Damage, cracks
- Rusted sensor terminal
- Bent sensor terminal
  - If there is any malfunction, replace the MAF/IAT sensor. (See [MASS AIR FLOW \(MAF\)/INTAKE AIR TEMPERATURE \(IAT\) SENSOR REMOVAL/INSTALLATION \[ZJ, Z6\]](#).)

## Voltage Inspection

1. Remove the MAF/IAT sensor without disconnecting the MAF/IAT sensor connector.
2. Turn the ignition switch to the ON position.
3. As the air gradually approaches the MAF detection part of the MAF/IAT sensor, verify that the MAF sensor output voltage (WDS PID: MAF) varies.

- If it cannot be verified even though the related wiring harnesses have no malfunction, replace the MAF/IAT sensor. (See [MASS AIR FLOW \(MAF\)/INTAKE AIR TEMPERATURE \(IAT\) SENSOR REMOVAL/INSTALLATION \[ZJ, Z6\]](#).)

## 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 A and PCM terminal 2BG
- MAF/IAT sensor terminal B and PCM terminal 2BC
- MAF/IAT sensor terminal C and PCM terminal 2AU

**Short circuit**

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