

2012 - Mazda6 - Engine

MASS AIR FLOW (MAF) SENSOR INSPECTION [MZI 3.7 V6]

NOTE:

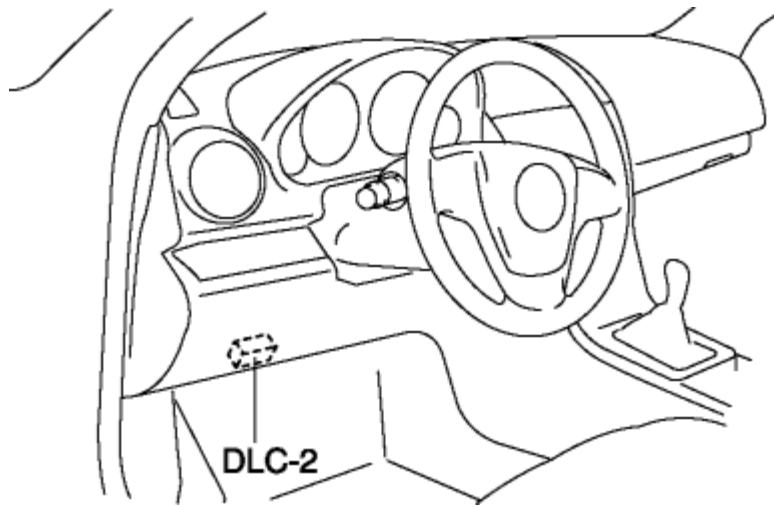
- The MAF sensor and IAT sensor cannot be removed as a single unit. When replacing the MAF sensor or IAT sensor, replace it together with the MAF/IAT sensor as a single unit.

Visual Inspection

1. Disconnect the negative battery cable. (See [BATTERY REMOVAL/ INSTALLATION \[MZI 3.7 V6\]](#) .)
2. Disconnect the MAF/IAT sensor connector.
3. Remove the MAF/IAT sensor. (See [MASS AIR FLOW \(MAF\)/ INTAKE AIR TEMPERATURE \(IAT\) SENSOR REMOVAL/ INSTALLATION \[MZI 3.7 V6\]](#) .)
4. Verify the following items of the MAF sensor.
 - Dirt, 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 \[MZI 3.7 V6\]](#) .)

Voltage Inspection

1. Disconnect the negative battery cable. (See [BATTERY REMOVAL/ INSTALLATION \[MZI 3.7 V6\]](#) .)
2. Remove the MAF/IAT sensor with the connector still connected.
3. Reconnect the negative battery cable. (See [BATTERY REMOVAL/ INSTALLATION \[MZI 3.7 V6\]](#) .)
4. Connect the M-MDS to the DLC-2.



5. Switch the ignition to ON.

6. Verify that the MAF sensor output voltage (PID: MAF) changes when wind is introduced gradually to the sensor part of the MAF sensor. (See [ON-BOARD DIAGNOSTIC TEST \[MZI 3.7 V6\]](#).)

- If it cannot be verified, replace the MAF/IAT sensor. (See [MASS AIR FLOW \(MAF\)/ INTAKE AIR TEMPERATURE \(IAT\) SENSOR REMOVAL/ INSTALLATION \[MZI 3.7 V6\]](#).)

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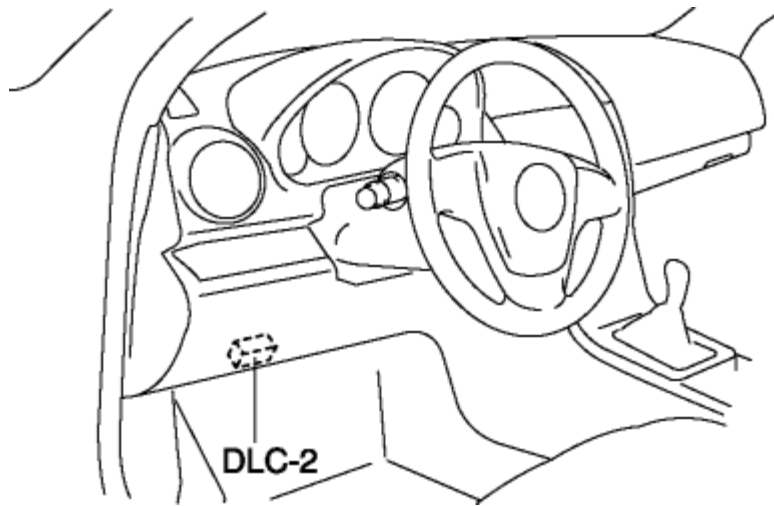
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