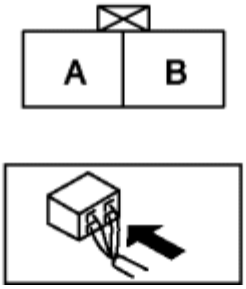
2012 - Mazda6 - Engine

FAN CONTROL MODULE INSPECTION [MZI 3.7 V6]

1. Connect the M-MDS to the DLC-2.
2. Start and warm up the engine.
3. Monitor the engine coolant temperature with the M-MDS.
4. Measure the voltage at terminal A of the fan control module connector (2 terminals) as shown in the table.

FAN CONTROL MODULE CONNECTOR



- If not within the specification, inspect the input signals from the following parts.
  - Cylinder Head Temperature (CHT) sensor
  - Refrigerant pressure switch (middle)

Fan control module [A/C OFF (Ambient temp. −5—43 °C {23—109 °F})]

Inspection	Result	
Engine coolant temp. (°C {°F})	PID FAN_DUTY	Voltage
100 {212}	0 %	0 V
100—104 {212—219}	0—70 %	0—9.6 V
106 {223}	100 %	13.0 V

Fan control module [A/C ON (Ambient temp. −1—43 °C {31—109 °F})]

Inspection	Result	
Refrigerant pressure (MPa{kgf/cm^2, psi})	PID FAN_DUTY	Voltage

less than 1.20 {12.2, 174}	43 %	5.9 V
more than 1.96 {20.0, 284}	100 %	13.0 V

5. If all the above parts are normal, replace the fan control module.

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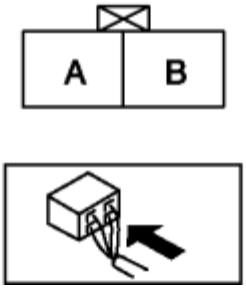

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