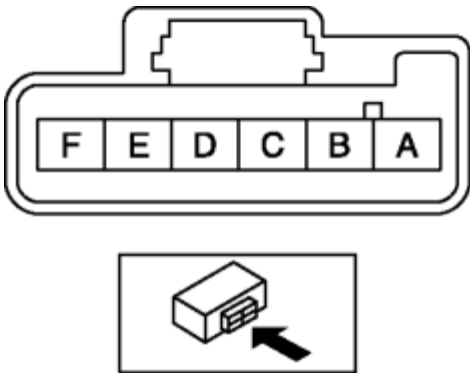


2012 - Mazda6 - Engine

INTAKE AIR TEMPERATURE (IAT) 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.
1. Disconnect the negative battery cable. (See [BATTERY REMOVAL/ INSTALLATION \[MZI 3.7 V6\]](#) .)
 2. Disconnect the MAF/IAT sensor connector.
 3. Measure the resistance between MAF/IAT sensor terminals A and F.

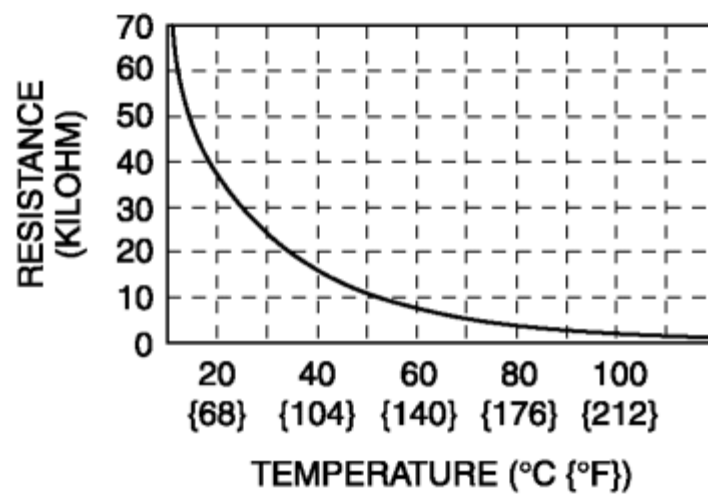


- If not within the specification, replace the MAF/IAT sensor. (See [MASS AIR FLOW \(MAF\)/ INTAKE AIR TEMPERATURE \(IAT\) SENSOR REMOVAL/ INSTALLATION \[MZI 3.7 V6\]](#) .)

IAT sensor resistance

IAT (°C {°F})	Resistance (kilohm)
10 {50}	Approx. 58.75
20 {68}	Approx. 37.30
30 {86}	Approx. 24.27
60 {140}	Approx. 7.70

IAT sensor characteristics graph (reference)



[< Previous](#) [Next >](#)

[Back to Top](#)

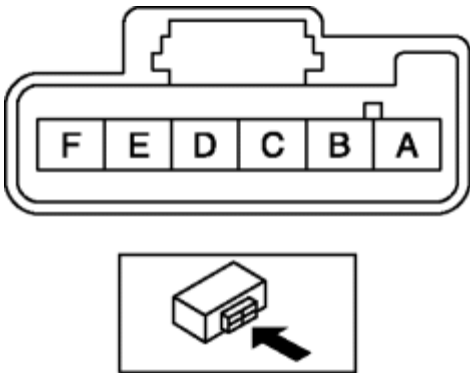
© 2011 Mazda North American Operations, U.S.A.

2012 - Mazda6 - Engine

INTAKE AIR TEMPERATURE (IAT) 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.
1. Disconnect the negative battery cable. (See [BATTERY REMOVAL/ INSTALLATION \[MZI 3.7 V6\]](#) .)
 2. Disconnect the MAF/IAT sensor connector.
 3. Measure the resistance between MAF/IAT sensor terminals A and F.

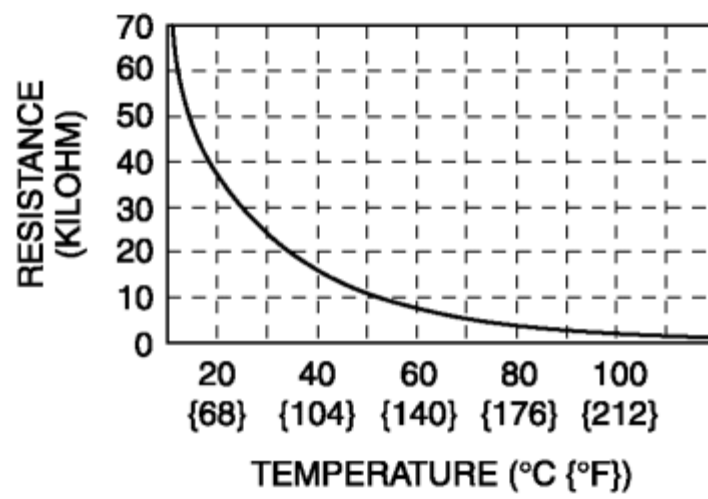


- If not within the specification, replace the MAF/IAT sensor. (See [MASS AIR FLOW \(MAF\)/ INTAKE AIR TEMPERATURE \(IAT\) SENSOR REMOVAL/ INSTALLATION \[MZI 3.7 V6\]](#) .)

IAT sensor resistance

IAT (°C {°F})	Resistance (kilohm)
10 {50}	Approx. 58.75
20 {68}	Approx. 37.30
30 {86}	Approx. 24.27
60 {140}	Approx. 7.70

IAT sensor characteristics graph (reference)



[< Previous](#) [Next >](#)

[Back to Top](#)

© 2011 Mazda North American Operations, U.S.A.