

## 2012 - Mazda6 - Transmission/ Transaxle

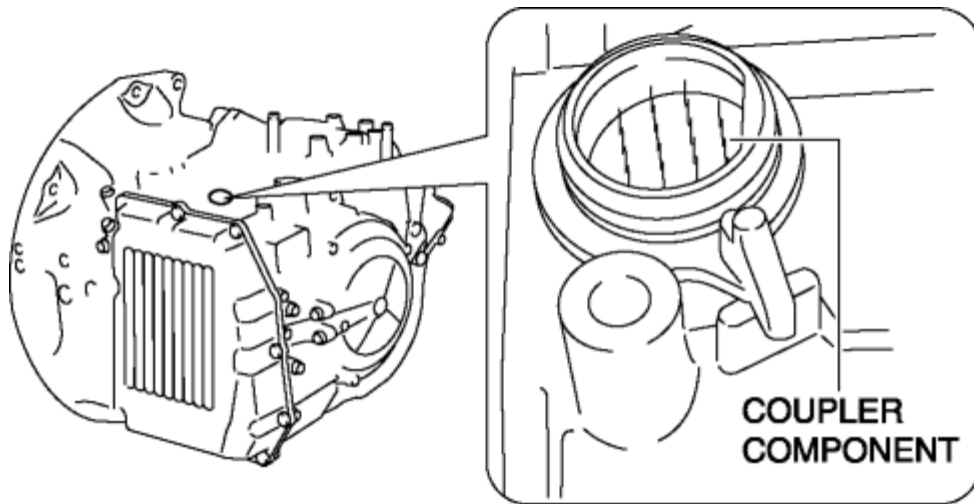
### TRANSAXLE FLUID TEMPERATURE (TFT) SENSOR INSPECTION [AY6A-EL]

#### CAUTION:

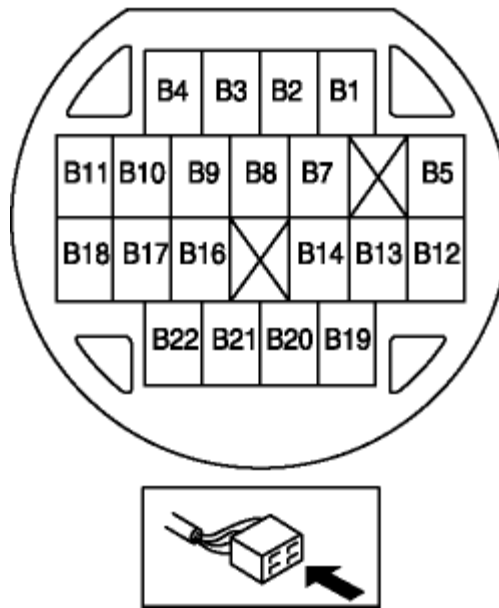
- Water or foreign objects entering the connector can cause a poor connection or corrosion. Be sure not to drop water or foreign objects on the connector when disconnecting it.
- Do not damage the terminals.

#### On-Vehicle Inspection

1. Disconnect the negative battery cable.
2. Remove the fresh-air duct and air cleaner component as a single unit. (See [INTAKE-AIR SYSTEM REMOVAL/ INSTALLATION \[MZI 3.7 V6\]](#) .)
3. Remove the TCM. (See [TCM REMOVAL/ INSTALLATION \[AY6A-EL\]](#) .)
4. Measure the resistance between coupler component terminals B7 and B8.



## COUPLER COMPONENT



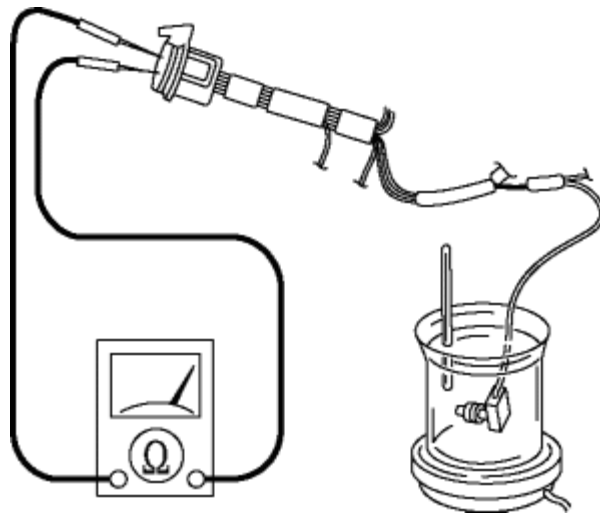
- If there is any malfunction, inspect the coupler component for continuity. (See [COUPLER COMPONENT INSPECTION \[AY6A-EL\]](#).)
- If coupler component has no malfunction, perform the "Off-vehicle inspection". (See [Off-Vehicle Inspection.](#))

### TFT sensor specification

| ATF temperature (°C {°F}) | Resistance (kilohm) |
|---------------------------|---------------------|
| 10 {50}                   | 5.62—7.31           |
| 25 {77}                   | Approx. 3.5         |
| 110 {230}                 | 0.22—0.27           |

### Off-Vehicle Inspection

1. Place the TFT sensor and a thermometer in ATF as shown in the figure, and heat the ATF gradually.

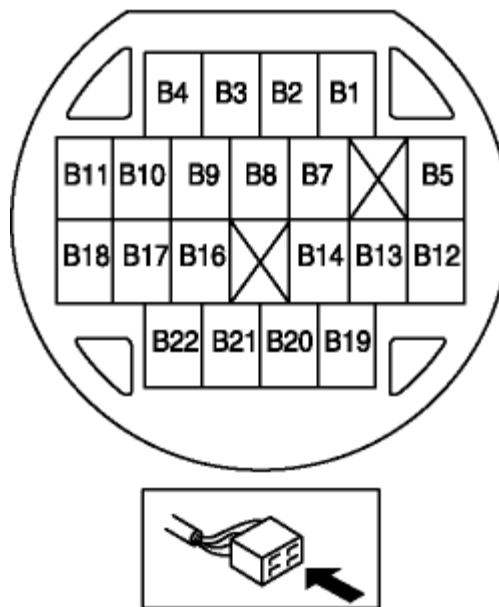


#### WARNING:

- A hot ATF and beaker can cause severe burns. Do not touch them.

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#### COUPLER COMPONENT



- If there is any malfunction, replace the coupler component.

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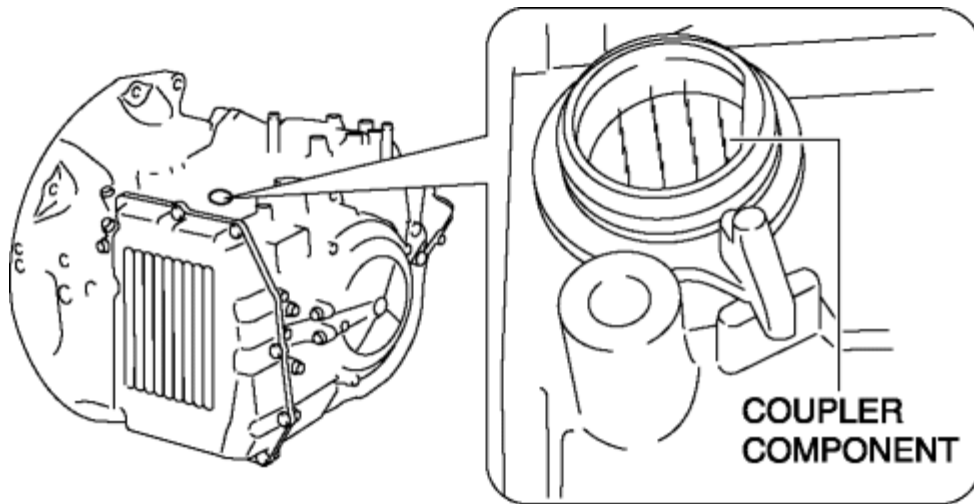
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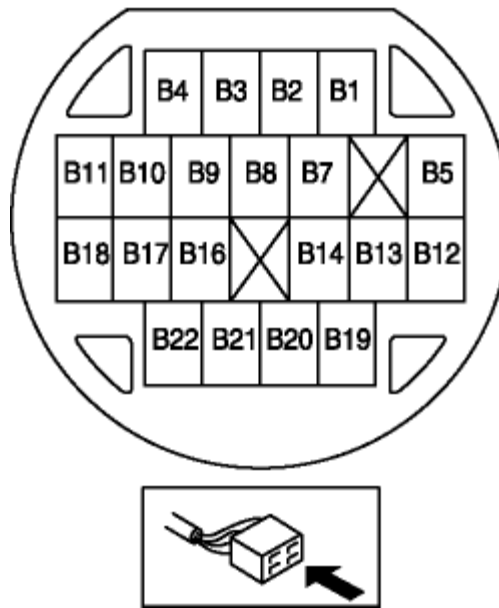
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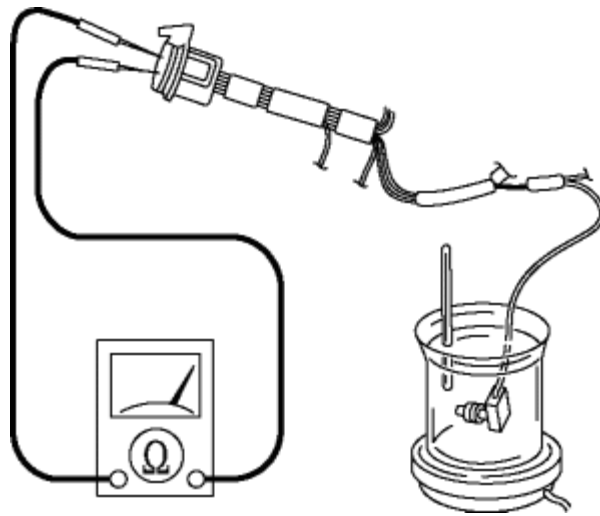
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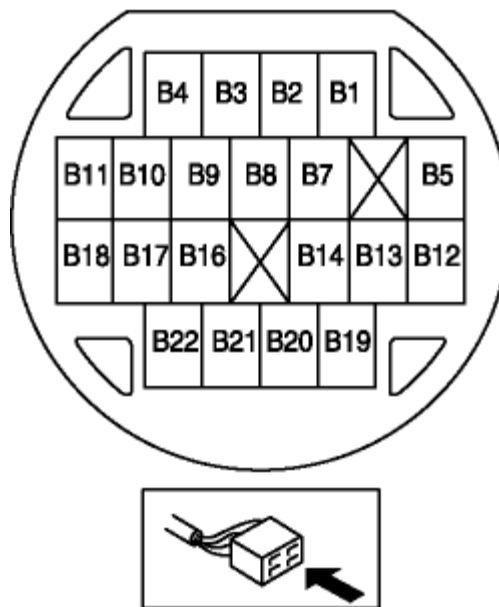


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