

2012 - Mazda6 - Transmission/ Transaxle

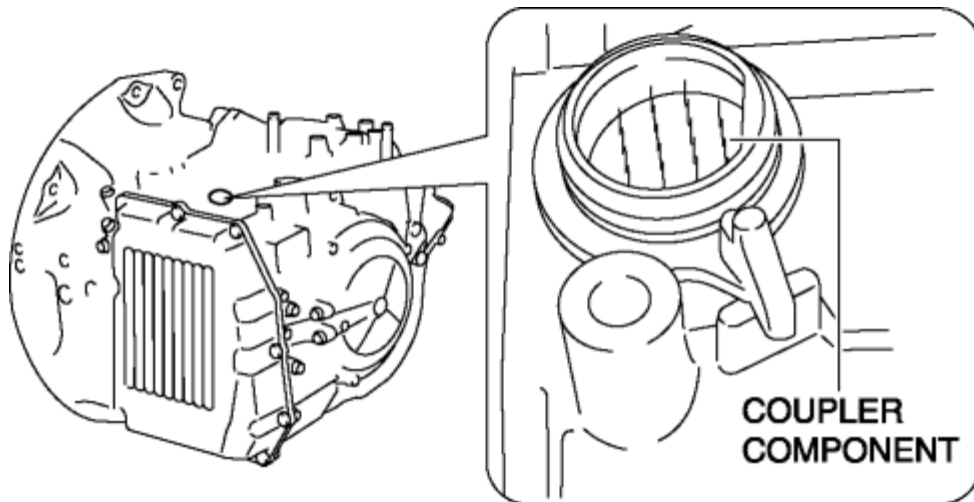
SHIFT SOLENOID E INSPECTION [AY6A-EL]

CAUTION:

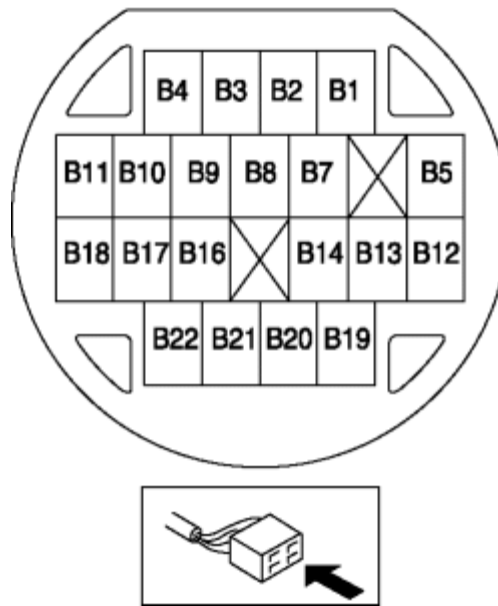
- Water or foreign objects entering the connector can cause a poor connection or corrosion. Be sure not to drop water or foreign objects on the connector when disconnecting it.
- Do not damage the terminals.

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 B14 and B22.



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.](#))

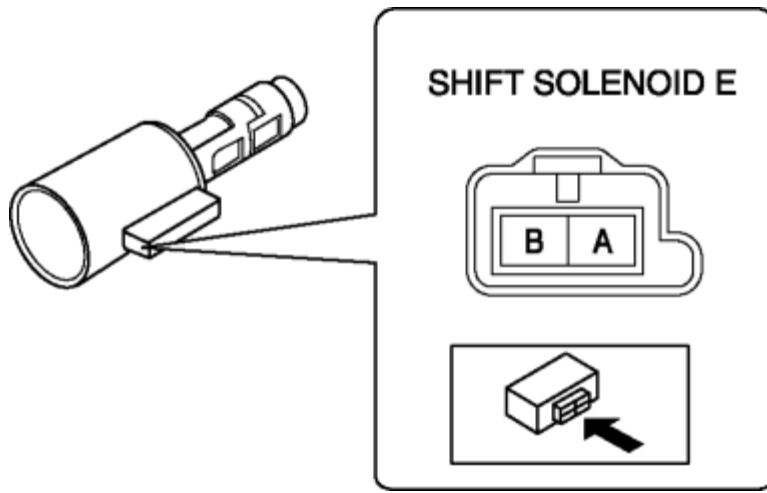
Shift solenoid E specification

ATF temperature (°C {°F})	Resistance (ohm)
20 {68}	5.0—5.6

Off-Vehicle Inspection

Resistance inspection

1. Measure the resistance shift solenoid E terminals A and B.



- If there is any malfunction, replace the control valve body.

Shift solenoid E specification

Ambient temperature (°C {°F})	Resistance (ohm)
20 {68}	5.0—5.6

Operation inspection

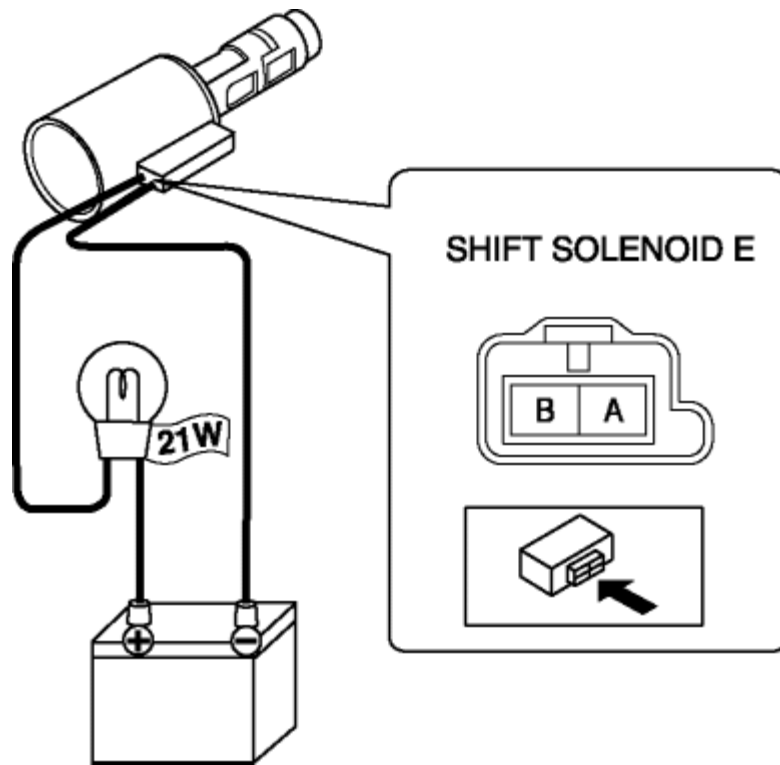
CAUTION:

- Do not apply battery positive voltage to terminals for more than 3 s.

NOTE:

- Because the operation sound of the shift solenoid E is small, perform inspection in a quiet place.

1. Connect the positive battery terminal to terminal B of shift solenoid E via the **12—21 W** bulb and connect the negative battery terminal to terminal A of shift solenoid E.



CAUTION:

- Do not apply impact to shift solenoid E.
- Do not damage the terminals.

2. Verify that operating sound is heard from the shift solenoid E.

- If there is any malfunction, replace the control valve body.

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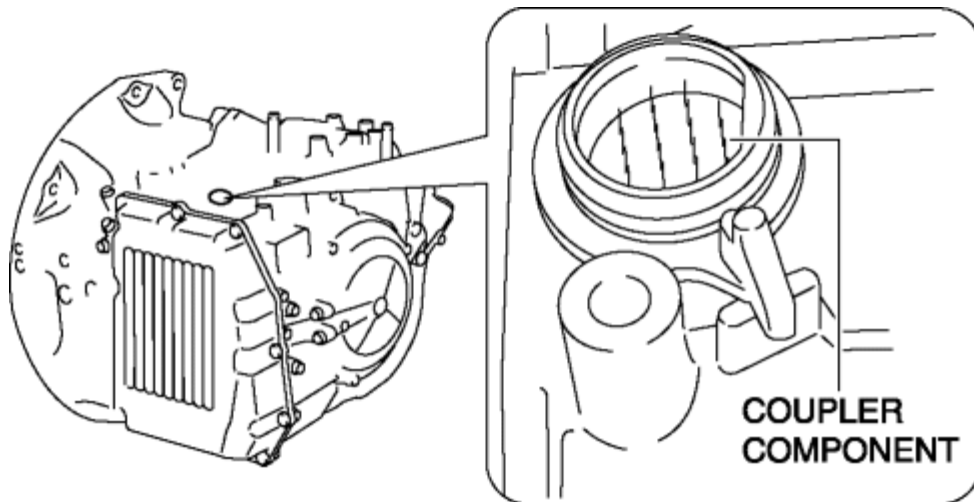
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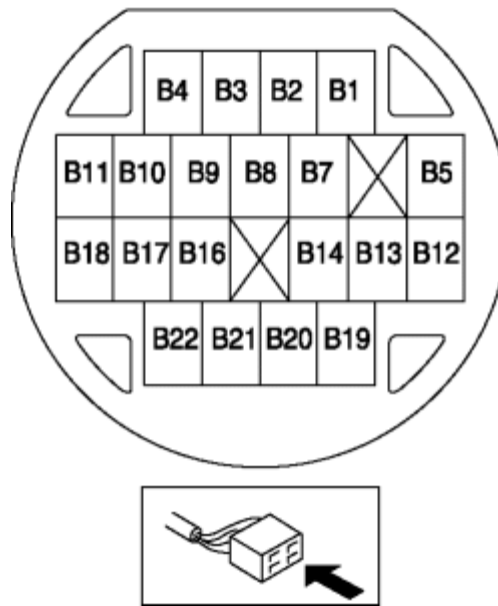
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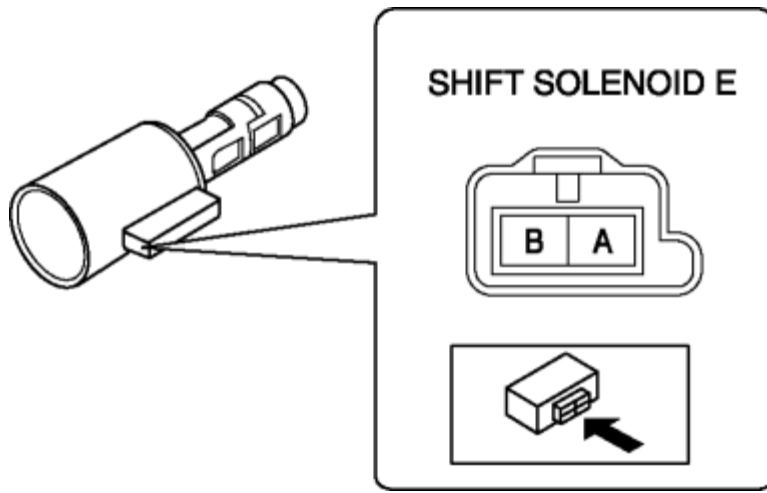
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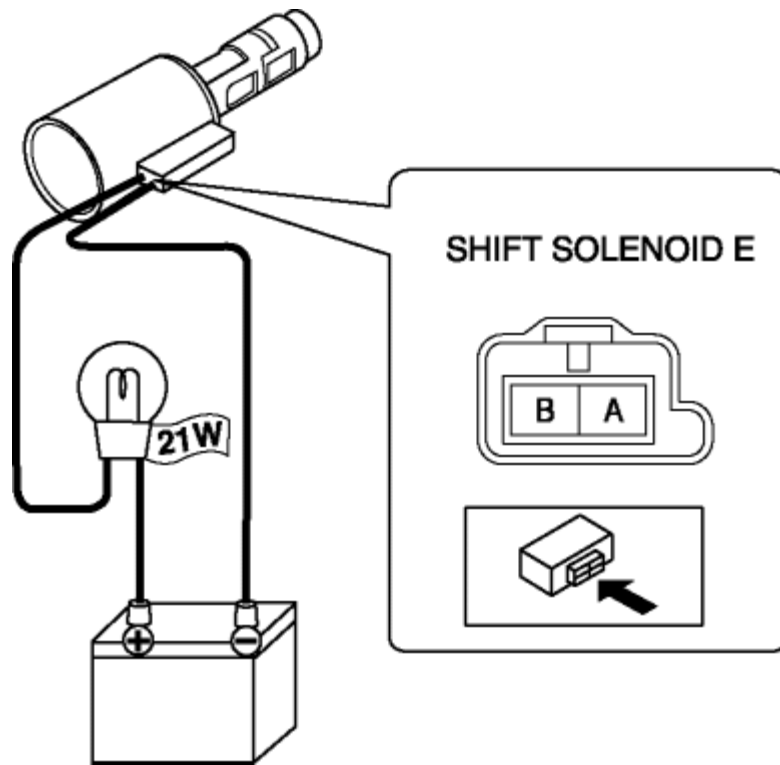
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