

2012 - Mazda6 - Transmission/ Transaxle

SHIFT SOLENOID B INSPECTION [AY6A-EL]

WARNING:

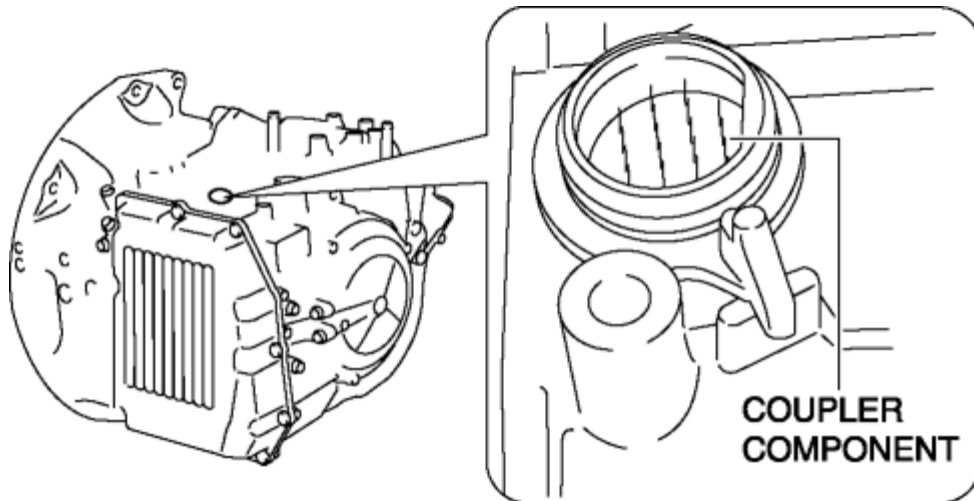
- Using compressed air can cause dirt and other particles to fly out, causing injury to the eyes. Wear protective eyeglasses whenever using compressed air.

CAUTION:

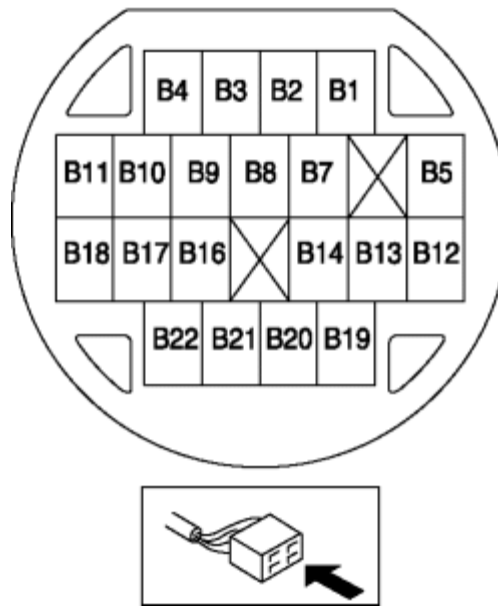
- Water or foreign objects entering the connector can cause a poor connection or corrosion. Be sure not to drop water or foreign objects on the connector when disconnecting it.
- Do not damage the terminals.

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 terminal B2 and GND.



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](#).)

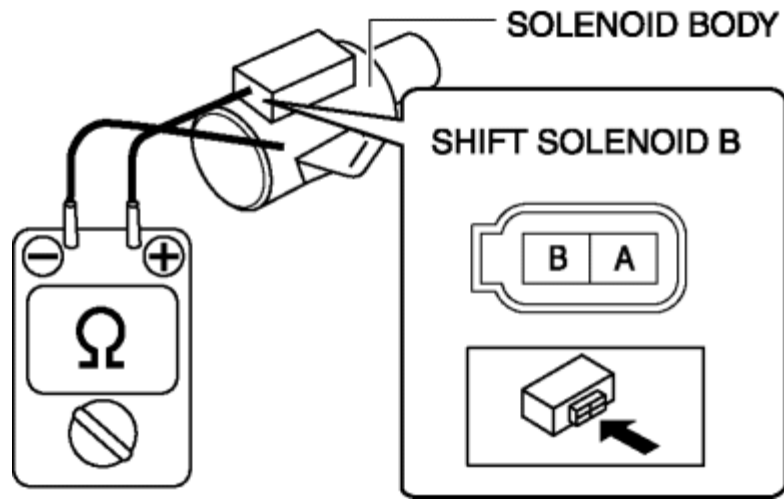
Shift solenoid B specification

ATF temperature (°C {°F})	Resistance (ohm)
20 {68}	11—15

Off-Vehicle Inspection

Resistance inspection

1. Measure the resistance between shift solenoid B terminal B and solenoid body.



- If there is any malfunction, replace the shift solenoid B.

Shift solenoid B specification

Ambient temperature (°C {°F})	Resistance (ohm)
20 {68}	11—15

Operation inspection

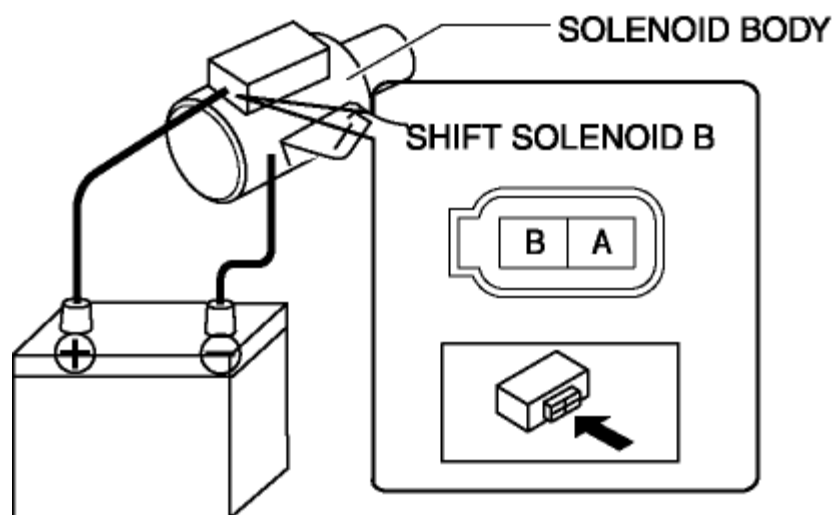
CAUTION:

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

NOTE:

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

1. Connect the shift solenoid B terminal B to the battery positive terminal, connect the battery negative terminal to solenoid body.



CAUTION:

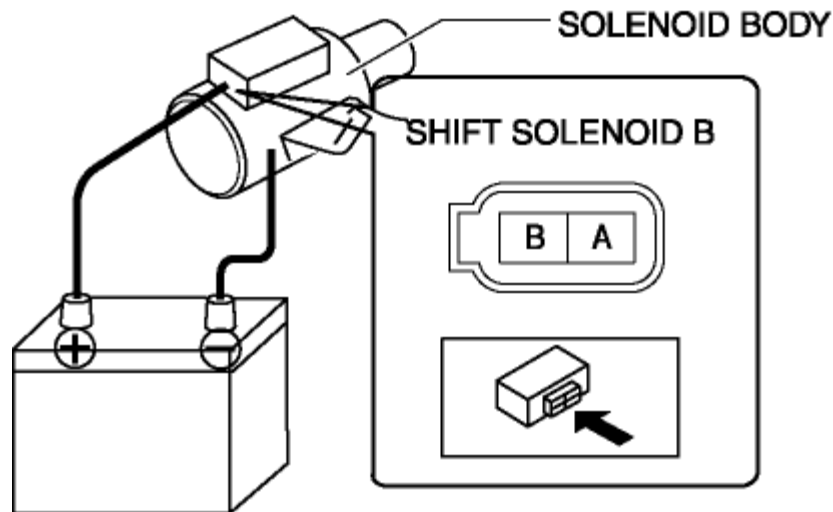
- Do not apply impact to shift solenoid B.
- Do not damage the terminals.

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

- If there is any malfunction, replace the shift solenoid B.

Airflow inspection

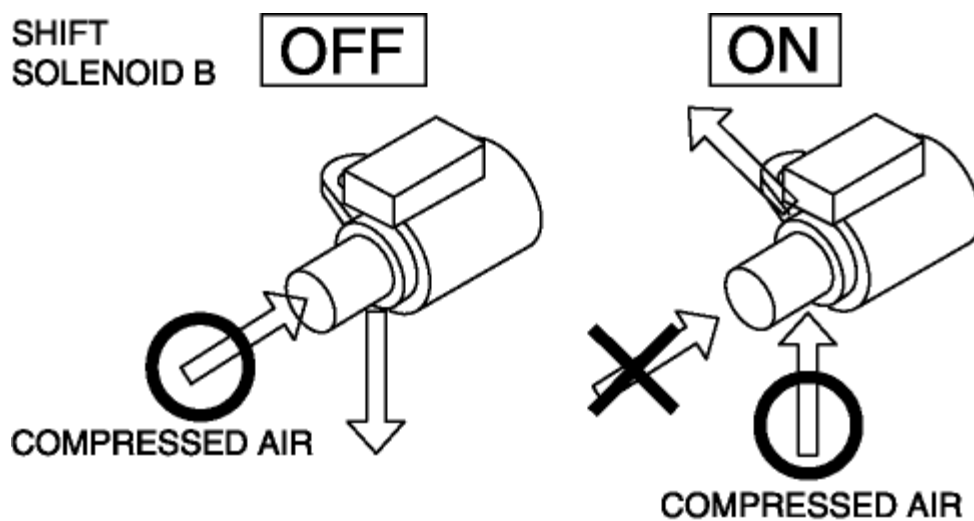
1. Connect the shift solenoid B terminal B to the battery positive terminal, connect the battery negative terminal to solenoid body.



CAUTION:

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

2. Blow compressed air to inspect the condition of the airflow shown in the figure.



- If there is any malfunction, replace the shift solenoid B.

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SHIFT SOLENOID B INSPECTION [AY6A-EL]

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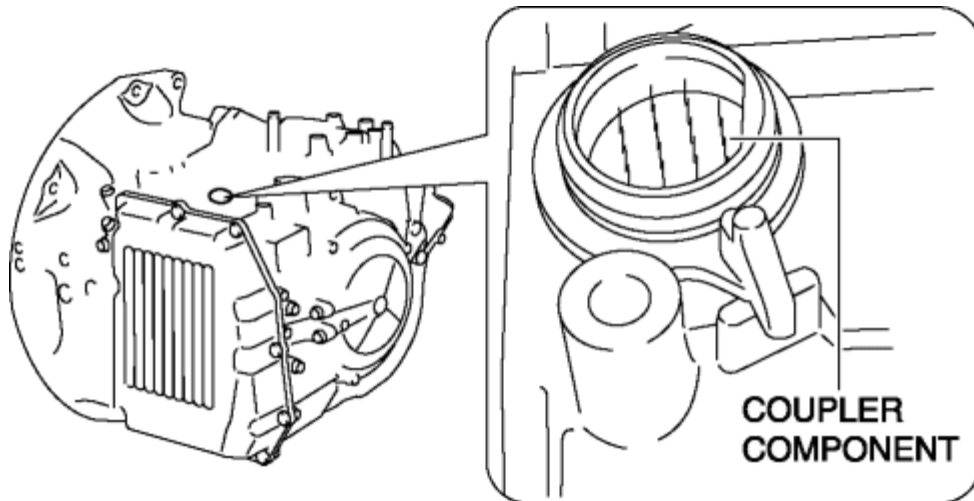
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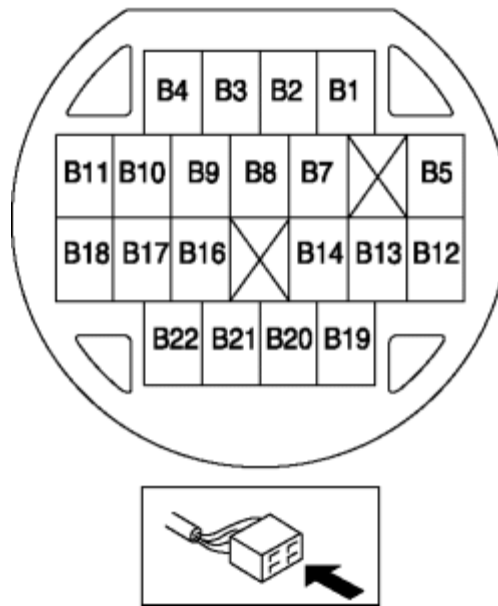
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On-Vehicle Inspection

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COUPLER COMPONENT



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- If coupler component has no malfunction, perform the "Off-vehicle inspection". (See [Off-Vehicle Inspection](#).)

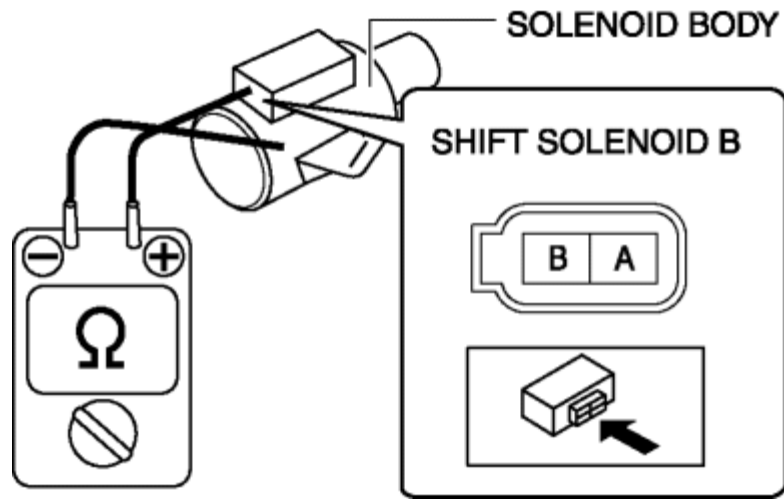
Shift solenoid B specification

ATF temperature (°C {°F})	Resistance (ohm)
20 {68}	11—15

Off-Vehicle Inspection

Resistance inspection

1. Measure the resistance between shift solenoid B terminal B and solenoid body.



- If there is any malfunction, replace the shift solenoid B.

Shift solenoid B specification

Ambient temperature (°C {°F})	Resistance (ohm)
20 {68}	11—15

Operation inspection

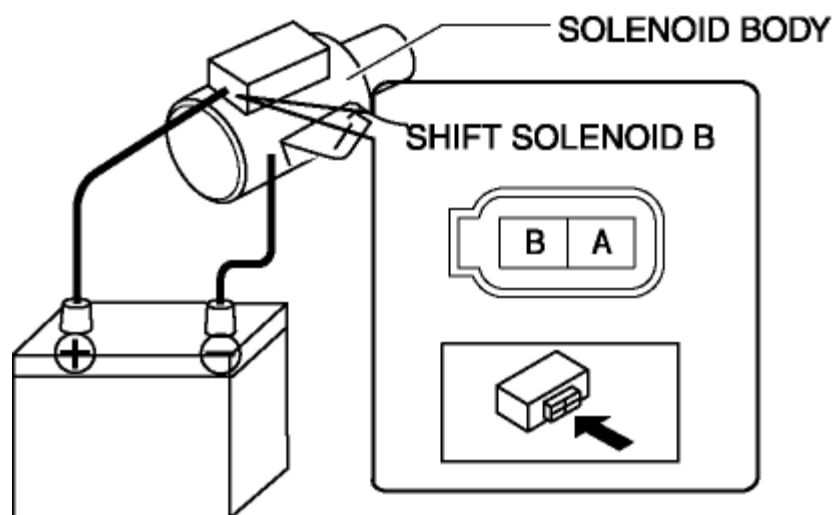
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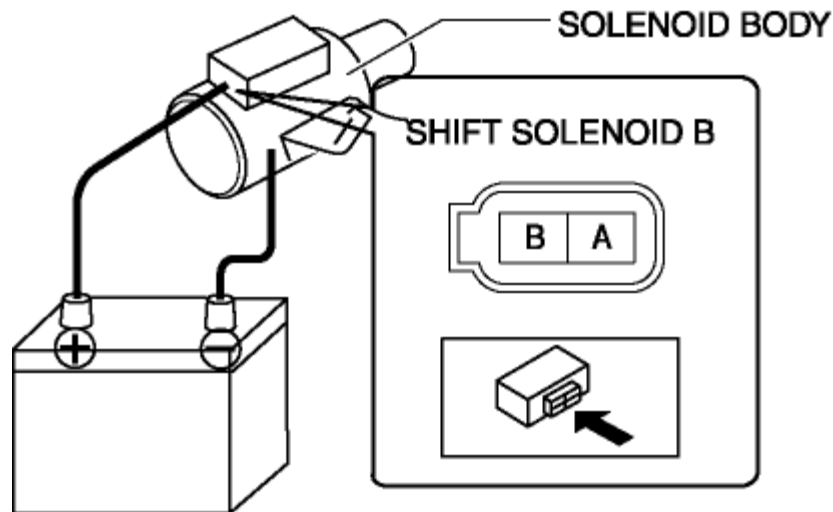
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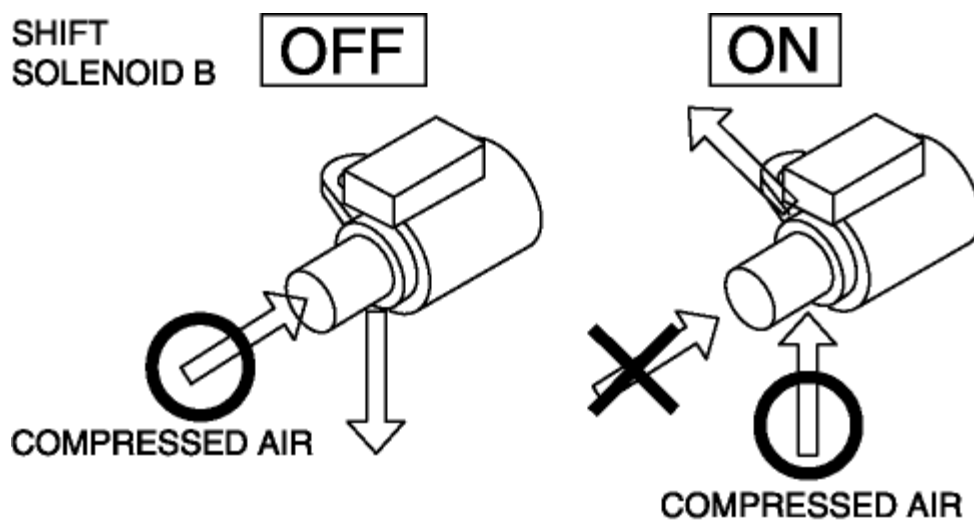
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