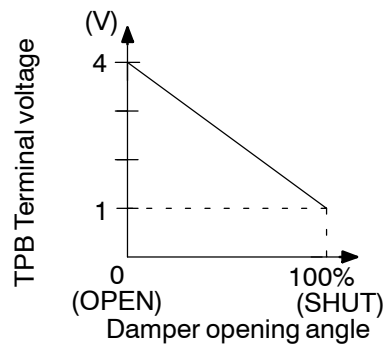


DTC	B1435/35	Cool Air Bypass Damper Position Sensor Circuit (Passenger Side)
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CIRCUIT DESCRIPTION

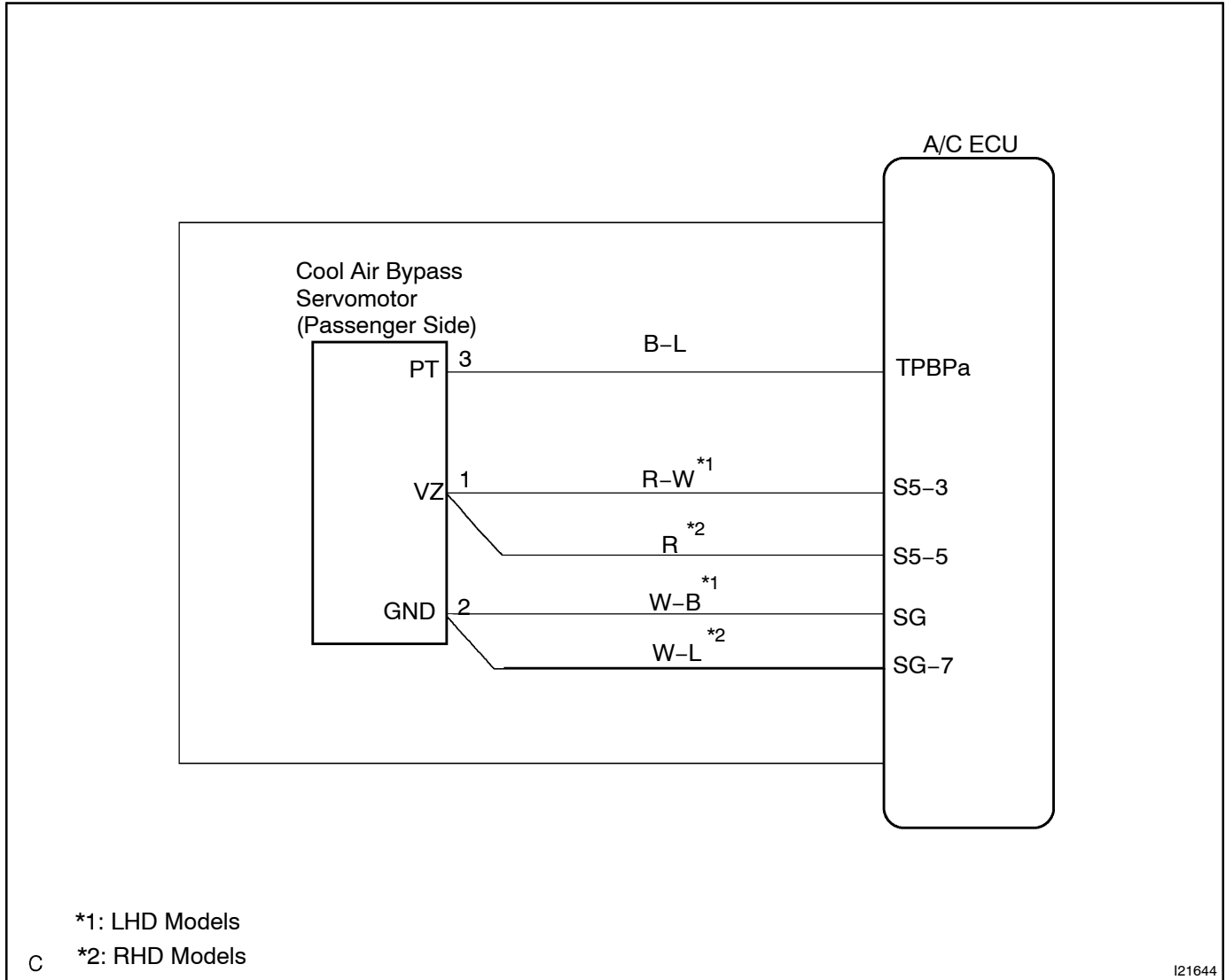


This sensor detects the position of the cool air bypass damper and sends the appropriate signals to the A/C ECU.

The position sensor is built into the cool air bypass damper control servomotor assembly.

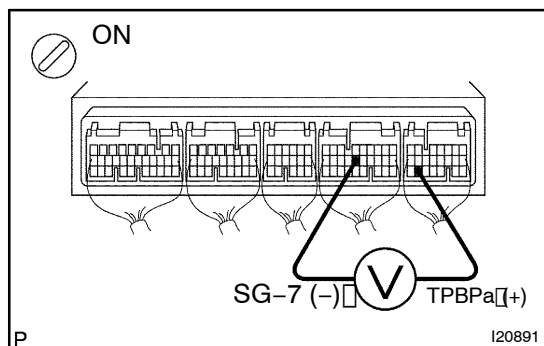
DTC No.	Detection Item	Trouble Area
B1435/35	Short to ground or power source circuit in cool air bypass damper position sensor circuit.	<ul style="list-style-type: none"> • Cool air bypass damper position sensor. • Harness or connector between cool air bypass damper control servomotor assembly and A/C ECU. • A/C ECU.

WIRING DIAGRAM



INSPECTION PROCEDURE

1 Check voltage between terminals TPBPa and SG-7 of A/C ECU connector.

**PREPARATION:**

Remove A/C ECU with connectors still connected.

CHECK:

- Turn ignition switch to ON.
- Change the set temperature to activate the cool air bypass damper control servomotor, and measure voltage between terminals TPBPa and SG-7 of A/C ECU each time when the set temperature is changed.

OK:

Set Temperature	Voltage
Max. Cool	3.5 - 4.5V
Max. Hot	0.5 - 1.8V

HINT:

As the set temperature increases, the voltage decreases.

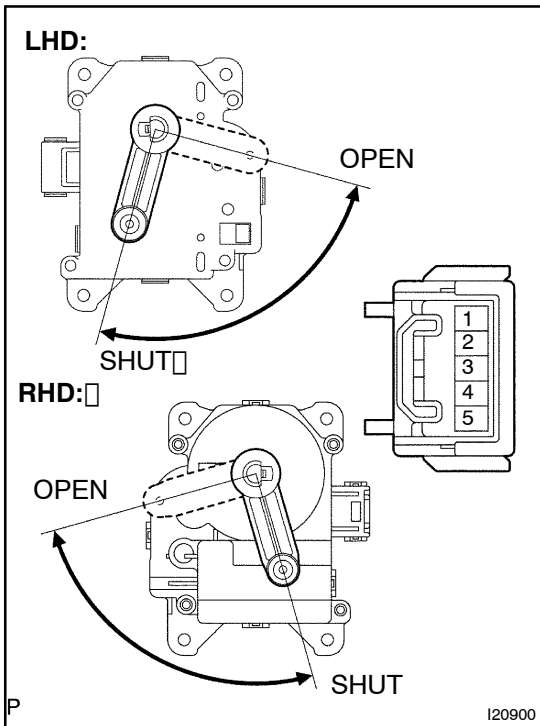
NG

Go to step 2.

OK

Proceed to next circuit inspection shown on problem symptoms table (See page DI-1772). However, if DTC B1435/35 is displayed, check and replace A/C ECU.

2 Check cool air bypass damper position sensor.



PREPARATION:

Remove cool air bypass damper control servomotor (See page AC-79).

CHECK:

Measure resistance between terminals 1 and 2 of cool air bypass damper control servomotor assembly connector.

OK:

Resistance: 4.2 - 7.2 kΩ

CHECK:

While operating cool air bypass damper control servomotor, following the procedure on page DI-1833, measure resistance between terminals 2 and 3 of cool air bypass damper control servomotor assembly connector.

OK:

Damper Position	Resistance
Max. Cool	3.33 - 4.03 kΩ
Max. Hot	0.80 - 1.60 kΩ

HINT:

As the cool air bypass damper control servomotor moves from the cool side to the hot side, the resistance decreases.

NG

Replace cool air bypass damper control servomotor assembly.

OK

3 Check harness and connector between A/C ECU and cool air bypass damper control servomotor assembly (See page IN-35).

NG

Repair or replace harness or connector.

OK

Check and replace A/C ECU.