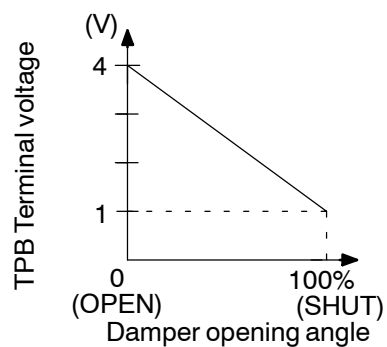


DTC	B1434/34	Cool Air Bypass Damper Position Sensor Circuit (Driver Side)
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CIRCUIT DESCRIPTION

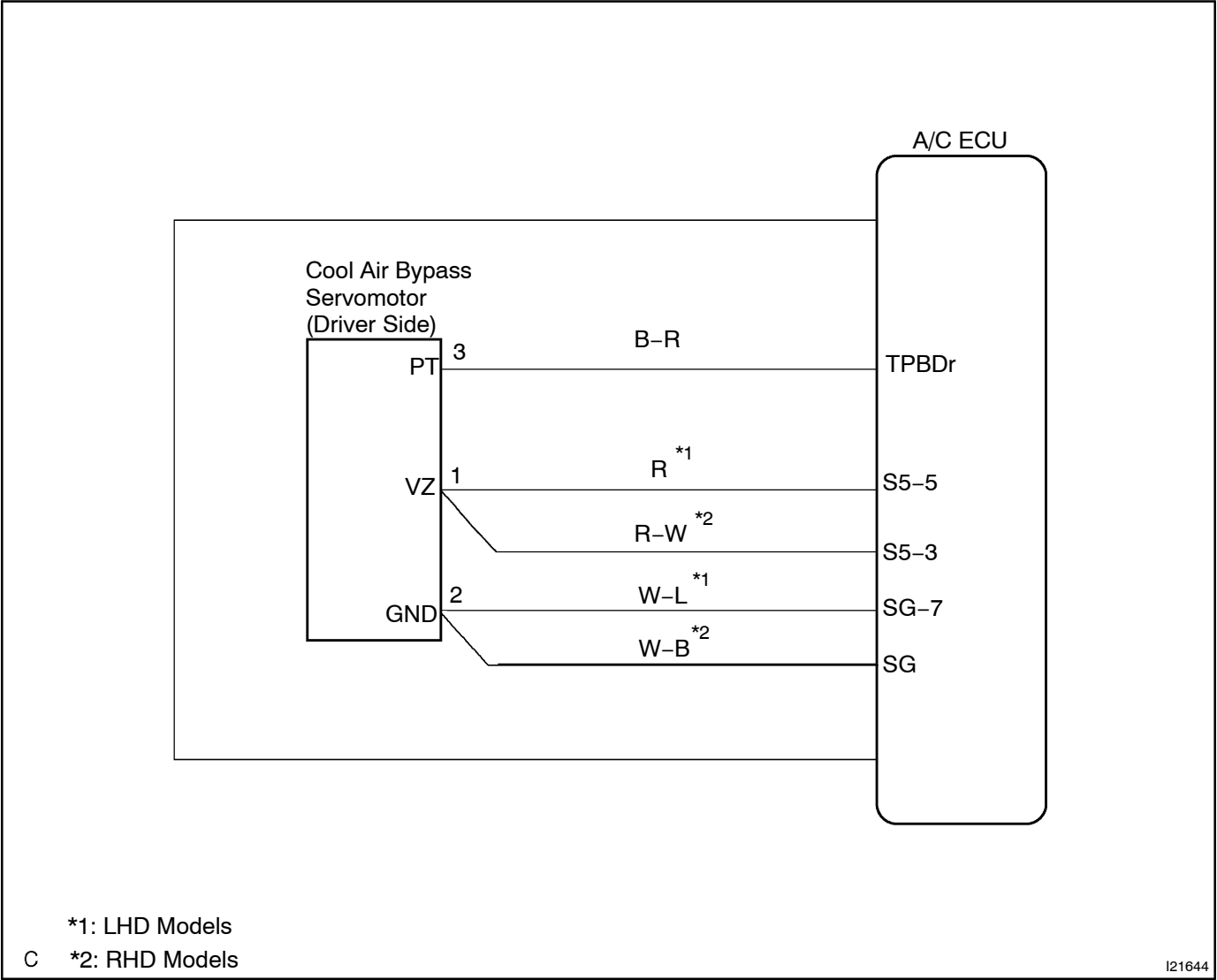


This sensor detects the position of the cool air bypass damper and sends the appropriate signals to the A/C ECU.

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

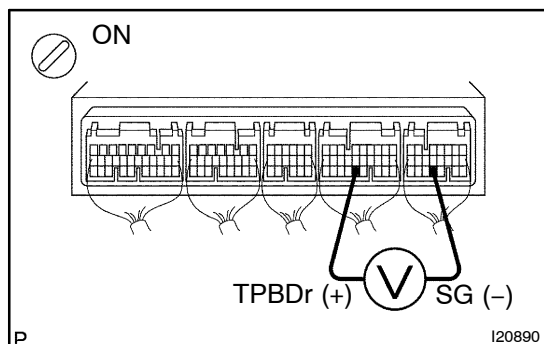
DTC No.	Detection Item	Trouble Area
B1434/34	Short to ground or power source circuit in cool air bypass damper position sensor circuit.	• Cool air bypass damper position sensor. • Harness or connector between cool air bypass damper control servomotor assembly and A/C ECU. • A/C ECU.

WIRING DIAGRAM



INSPECTION PROCEDURE

1 Check voltage between terminals TPBDr and SG 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 servomotor and measure voltage between terminals TPBDr and SG of A/C ECU connector each time when the set temperature is changed.

OK:

Set Temperature	Voltage
Max. cool	3.5 – 4.5 V
Max. hot	0.5 – 1.8 V

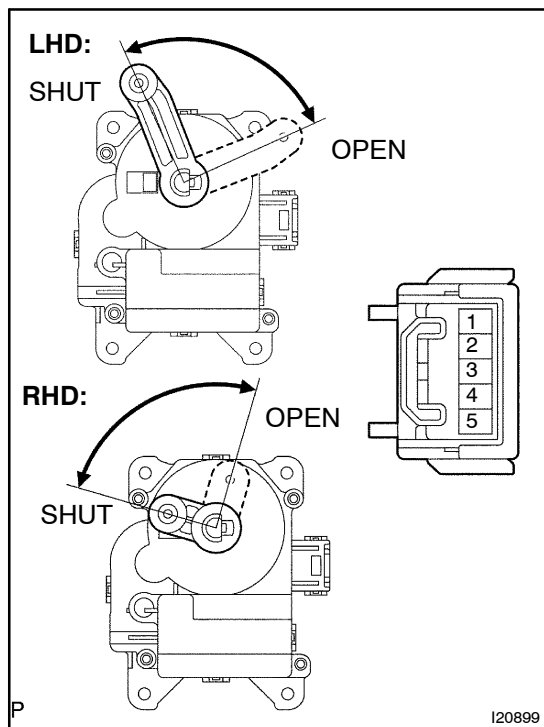
HINT:

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 B1434/34 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 max. cool damper control servomotor, following the procedure on page DI-1830, measure resistance between terminals 2 and 3 of max. cool 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 max cool 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.