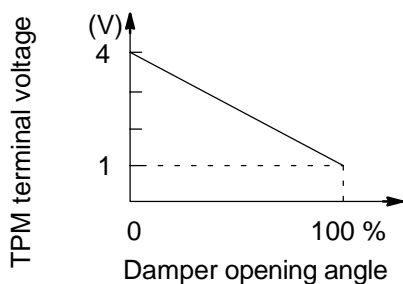


DTC	B1433/33	Air Outlet Damper Position Sensor Circuit
------------	-----------------	--

DTC	B1443/43	Air Outlet Damper Position Sensor Circuit
------------	-----------------	--

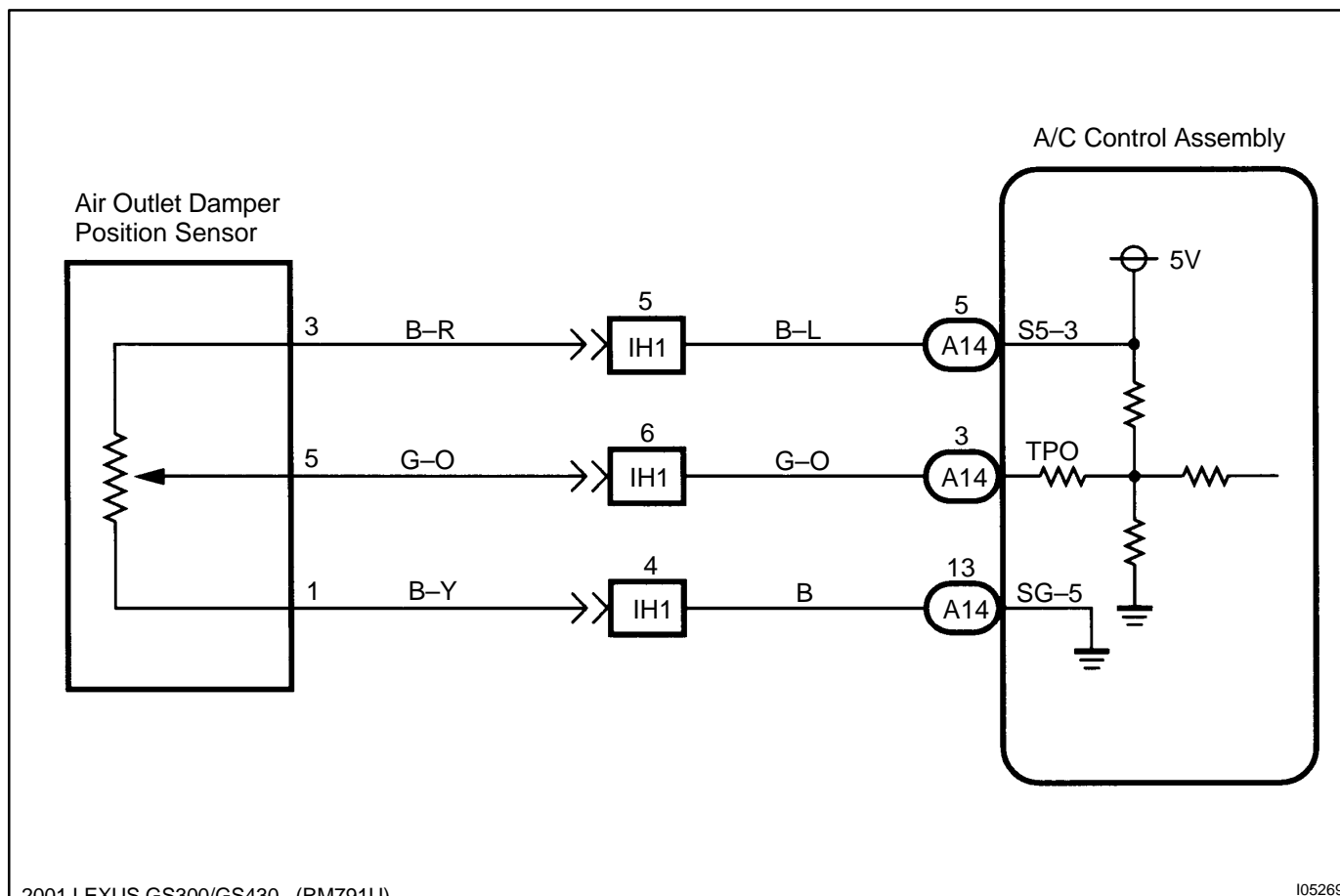
CIRCUIT DESCRIPTION



This sensor detects the position of the air mix damper and sends the appropriate signals to the A/C control assembly. The position sensor is built into the air outlet damper control servomotor assembly.

DTC No.	Detection Item	Trouble Area
B1433/33	Short to ground or power source circuit in air outlet damper position sensor circuit.	<ul style="list-style-type: none"> • Air outlet damper position sensor.
B1443/43	Air outlet damper position sensor value does not change even if A/C control assembly operates air outlet damper control servomotor.	<ul style="list-style-type: none"> • Harness or connector between air outlet damper control servomotor assembly and A/C control assembly. • A/C control assembly.

WIRING DIAGRAM



INSPECTION PROCEDURE

HINT:

In case of using the LEXUS hand-held tester, start the inspection from step1 and in case of not using the LEXUS hand-held tester, start from step2.

1 Check air outlet damper position using LEXUS hand-held tester.

PREPARATION:

Connect the LEXUS hand-held tester to the DLC3.

CHECK:

Check the current position of air outlet damper and the target position of air outlet damper.

OK:

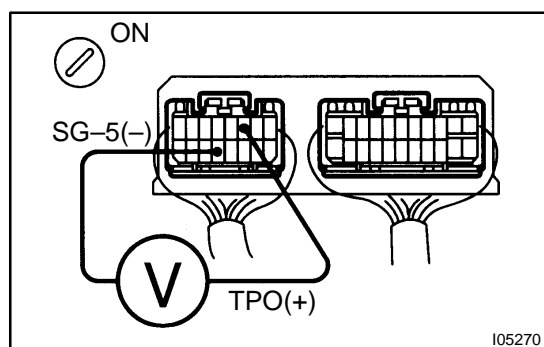
The current position and target position are almost similar.

OK

Check and replace A/C control assembly.

NG

2 Check voltage between terminals TPO and SG-5 of A/C control assembly connector.



PREPARATION:

- Remove A/C control assembly with connectors still connected.
- Turn ignition switch ON.

CHECK:

Measure the voltage between terminals TPO and SG-5 of A/C control assembly.

OK:

FRS-REC Switch	Voltage
VENT	3.5 – 4.5 V
DEF	0.5 – 1.5 V

HINT:

As the air outlet damper control servomotor is moved from VENT side to DEF side, the voltage decreases gradually without interruption.

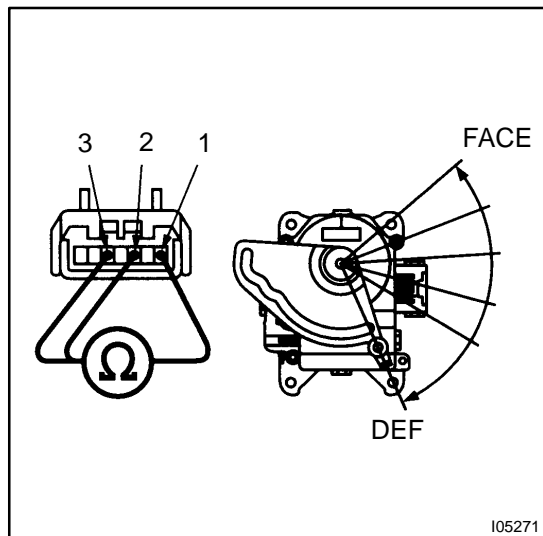
NG

Go to step 3.

OK

Proceed to next circuit inspection shown on problem symptoms table (See page [DI-1309](#)). However, if DTC B1434/34 or B1444/44 is displayed, check and replace A/C control assembly.

3 Check air outlet damper position sensor.



PREPARATION:

- Remove heater unit (See page [AC-24](#)).
- Disconnect air outlet damper control servomotor assembly connector.

CHECK:

Measure resistance between terminals 1 and 3 of air outlet servomotor assembly connector.

OK:

Resistance : 4.2 – 7.8 kΩ

CHECK:

While operating air outlet damper control servomotor as in the procedure on page [DI-1354](#), measure resistance between terminals 1 and 3 of air outlet damper control servomotor.

OK:

Resistance:

Damper Position	Resistance
DEF	0.5 – 1.1 kΩ
VENT	3.6 – 6.8 kΩ

HINT:

As the air outlet servomotor moves from DEF side to FACE side, the resistance decreases gradually without interruption.

NG

Replace max. cool damper control servomotor assembly.

OK

4 Check harness and connector between A/C control assembly and max. cool damper control servomotor assembly (See page [IN-32](#)).

NG

Repair or replace harness or connector.

OK

Check and replace A/C control assembly.