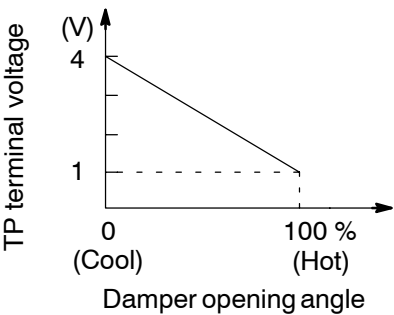


DTC	B1436/36	Air Mix Damper Position Sensor Circuit (Driver side)
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DTC	B1446/46	Air Mix Damper Position Sensor Circuit (Driver side)
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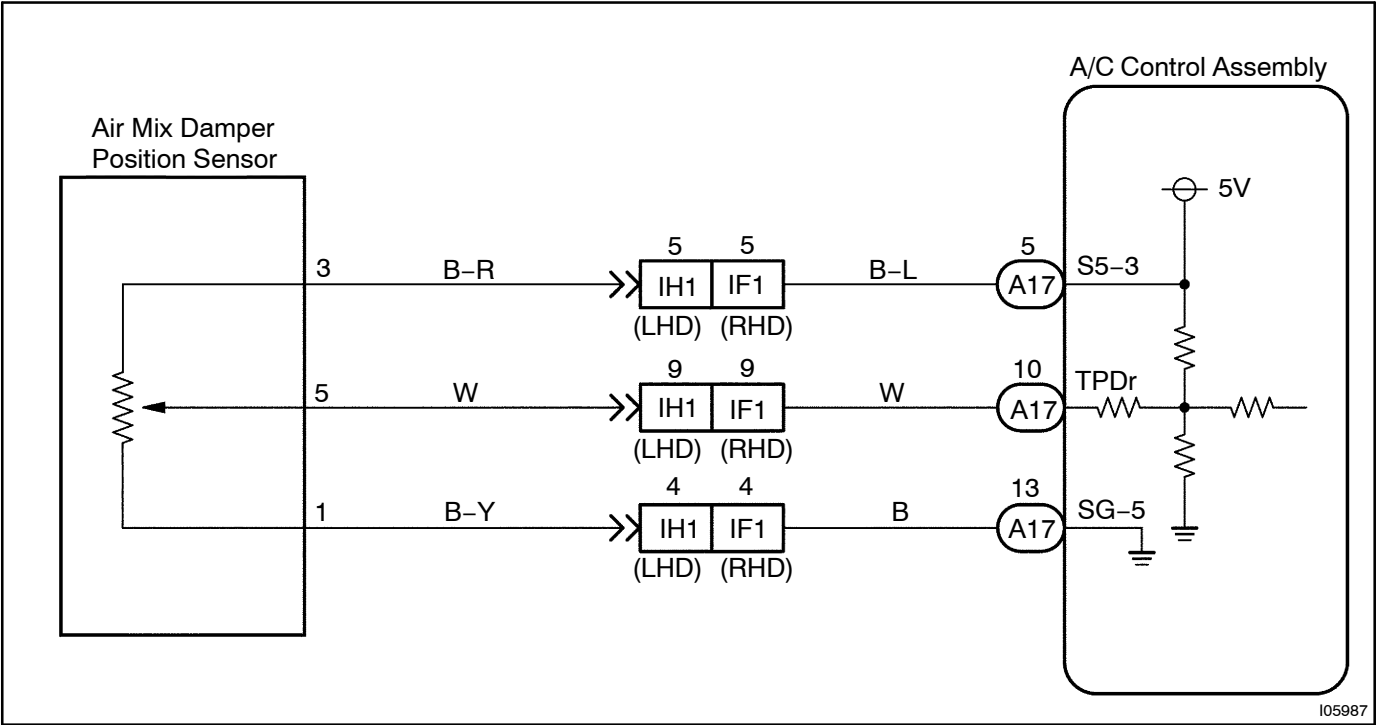
CIRCUIT DESCRIPTION



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 mix damper control servomotor assembly.

DTC No.	Detection Item	Trouble Area
B1436/36	Short to ground or power source circuit in air mix damper position sensor circuit.	<ul style="list-style-type: none">• Air mix damper position sensor.• Harness or connector between air mix damper control servomotor assembly and A/C control assembly.• A/C control assembly.
B1446/46	Air mix damper position sensor value does not change even if A/C control assembly operates air mix damper control servomotor.	

WIRING DIAGRAM



INSPECTION PROCEDURE

HINT:

In case of using the LEXUS hand-held tester, start the inspection from step 1 and in case of not using the LEXUS hand-held tester, start from step 2.

- 1 Check air mix damper position (Driver Side) using LEXUS hand-held tester.

PREPARATION:

Connect the LEXUS hand-held tester to the DLC3.

CHECK:

Check the current position of air mix damper (Driver Side) and the target position of air mix damper (Driver Side).

OK:

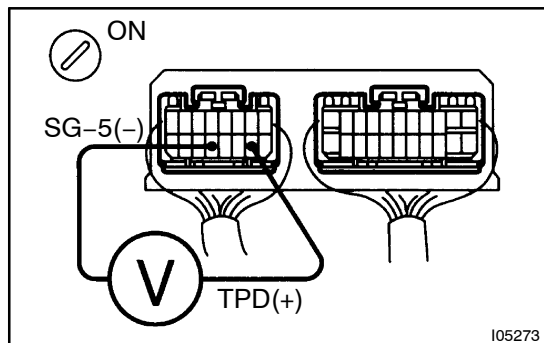
The current position and target position are almost similar.

OK

Check and replace A/C control assembly.

NG

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



PREPARATION:

Remove A/C control assembly with connectors still connected.

CHECK:

- Turn ignition switch ON.
- Change the set temperature to activate the air mix damper control servomotor, and measure the voltage between terminals TPD and SG-5 of A/C control assembly connector each time when the set temperature is changed.

OK:

Set Temperature	Voltage
Max. cool	3.5 - 4.5V
Max. hot	0.5 - 1.5V

HINT:

As the set temperature increases, the voltage decreases.

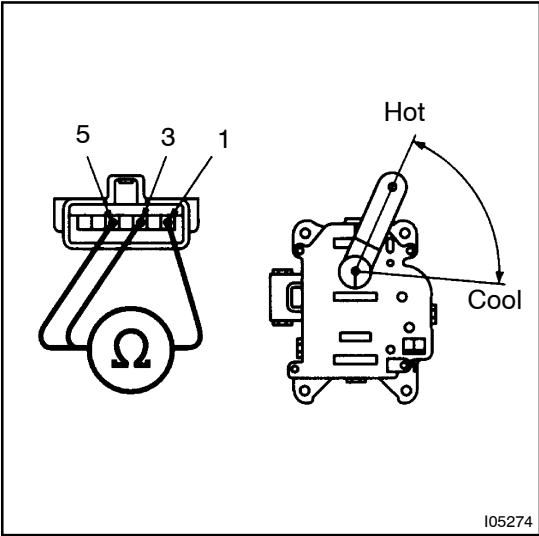
NG

Go to step 3.

Ok

Proceed to next circuit inspection shown on problem symptoms table (See page DI-912). However, if DTC B1436/36 or B1446/46 displayed, check and replace A/C control assembly.

3 Check air mix damper position sensor.



PREPARATION:

- (a) Remove heater unit (See page AC-26)
- (b) Disconnect air mix damper control servomotor assembly connector.

CHECK:

Measure resistance between terminals 1 and 3 of air mix damper control servomotor assembly connector.

OK:

Resistance 4.2 - 7.8 kΩ

CHECK:

While operating air mix damper control servomotor, following the procedure on page DI-959, measure resistance between terminals 1 and 5 of air mix damper control servomotor assembly connector.

OK:

Position	Resistance
Max. Cool	3.6 - 6.8 kΩ
Max. Hot	0.5 - 1.1 kΩ

HINT:

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

NG

Replace air mix damper control servomotor assembly.

OK

4 Check harness and connector between A/C control assembly and air mix damper control servomotor assembly (See page IN-29).

NG

Repair or replace harness or connector.

OK

Check and replace A/C control assembly.