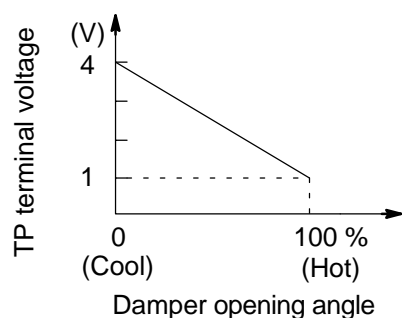


<b>DTC</b>	<b>B1436/36</b>	<b>Air Mix Damper Position Sensor Circuit (Driver side)</b>
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<b>DTC</b>	<b>B1446/46</b>	<b>Air Mix Damper Position Sensor Circuit (Driver side)</b>
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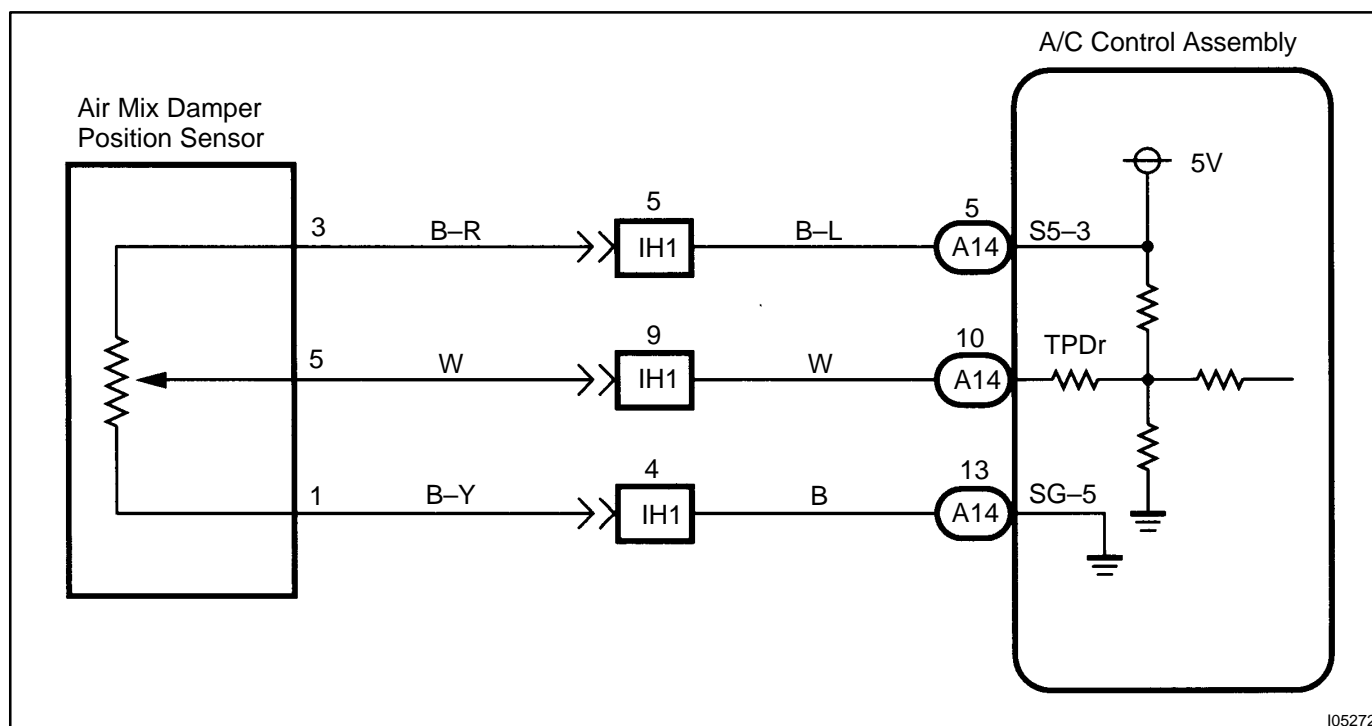
## CIRCUIT DESCRIPTION



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"> <li>• Air mix damper position sensor.</li> <li>• Harness or connector between air mix damper control servomotor assembly and A/C control assembly.</li> <li>• A/C control assembly.</li> </ul>
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



I05272

## 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.

- |          |  |
|----------|--|
| <b>1</b> | <b>Check air mix damper position (Driver Side) using LEXUS hand-held tester.</b> |
|----------|--|

### 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:

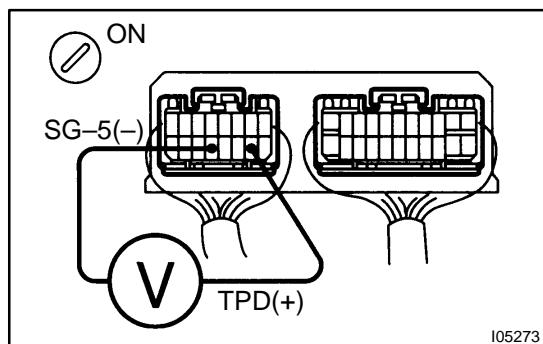
The current position and target position are almost similar.

**OK**

**Check and replace A/C control assembly.**

**NG**

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



### 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 – 4.5 V
Max. hot	0.5 – 1.5 V

### HINT:

As the set temperature increases, the voltage decreases.

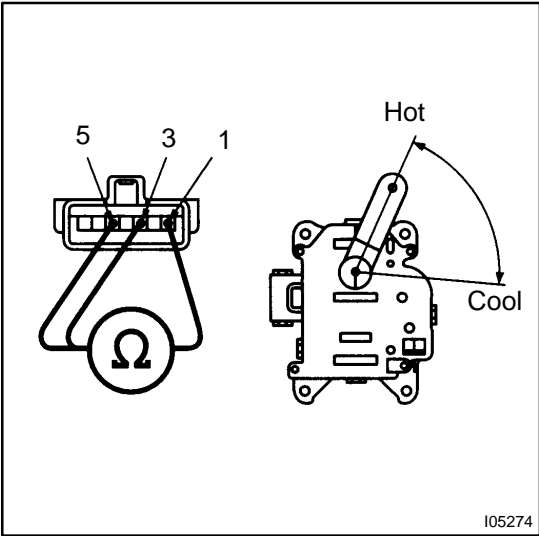
**NG**

**Go to step 3.**

**Ok**

**Proceed to next circuit inspection shown on problem symptoms table (See page DI-1309). 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-24](#))
- (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-1357](#), 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-32](#)).**

**NG**

**Repair or replace harness or connector.**

**OK**

**Check and replace A/C control assembly.**