

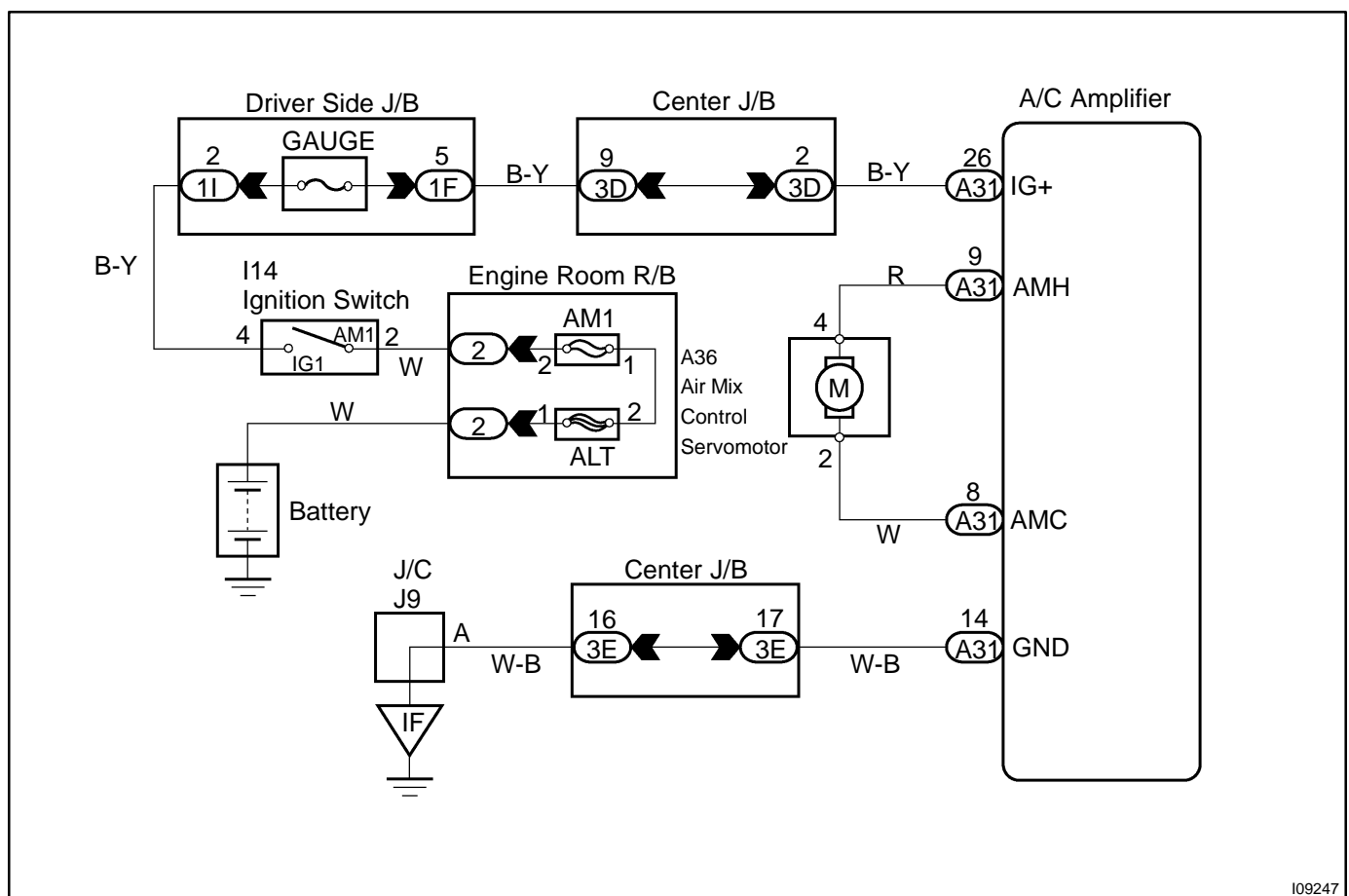
<b>DTC</b>	<b>41</b>	<b>Air Mix Control Servomotor Circuit</b>
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## CIRCUIT DESCRIPTION

This air mix control servomotor is controlled by the A/C control assembly and moves the air mix damper to the desired position.

DTC No.	Detection Item	Trouble Area
41	Air mix damper position sensor value does not change even if A/C control assembly operates air mix control servomotor.	<ul style="list-style-type: none"> <li>• Air mix control servomotor</li> <li>• Air mix damper position sensor</li> <li>• Harness or connector between A/C control assembly and air mix control servomotor, air mix damper position sensor</li> <li>• A/C control assembly</li> </ul>

## WIRING DIAGRAM



I09247

## INSPECTION PROCEDURE

<b>1</b>	<b>Actuator check</b>
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### PREPARATION:

- (a) Warm up the engine.
- (b) Set to the actuator check mode (See page [DI-578](#) ).
- (c) Press the DEF switch and change it to step operation.

### CHECK:

Press the DEF switch and check the operation of the air mix damper and the condition of the blower.

### OK:

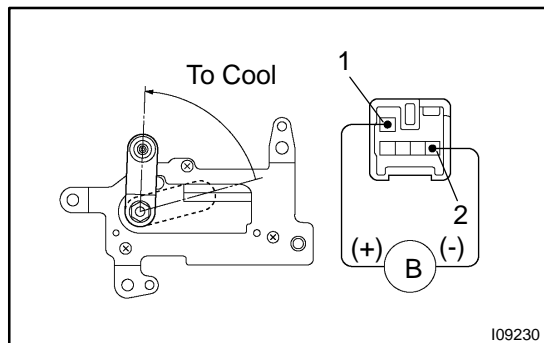
Display Code	Air Mix Damper	Condition
0 - 3	0 % (Fully closed)	Cool air comes out
4 - 5	50 %	
6 - 9	100 % (Fully opened)	Warm air comes out

**OK**

**Proceed to next circuit inspection shown on problem symptoms table (See page [DI-586](#) ).**

**NG**

## 2 Check air mix control servomotor.

**PREPARATION:**

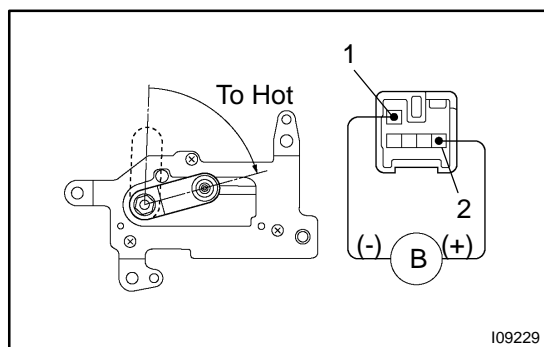
Remove air mix control servomotor (See page [AC-34](#)).

**CHECK:**

Connect positive (+) lead to terminal 1 and the negative (-) lead to terminal 2.

**OK:**

The lever turns smoothly to **COOL** side.

**CHECK:**

Connect negative (-) lead to terminal 1 and positive (+) lead to terminal 2.

**OK:**

The lever turns smoothly to **HOT** side.

**NG**

Repair or replace harness or connector.

**OK**

3	Check harness and connector between A/C control assembly and air mix control servomotor (See page <a href="#">IN-28</a> ).
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Repair or replace harness or connector.

OK

Check and replace A/C control assembly  
(See page [IN-28](#) ).