

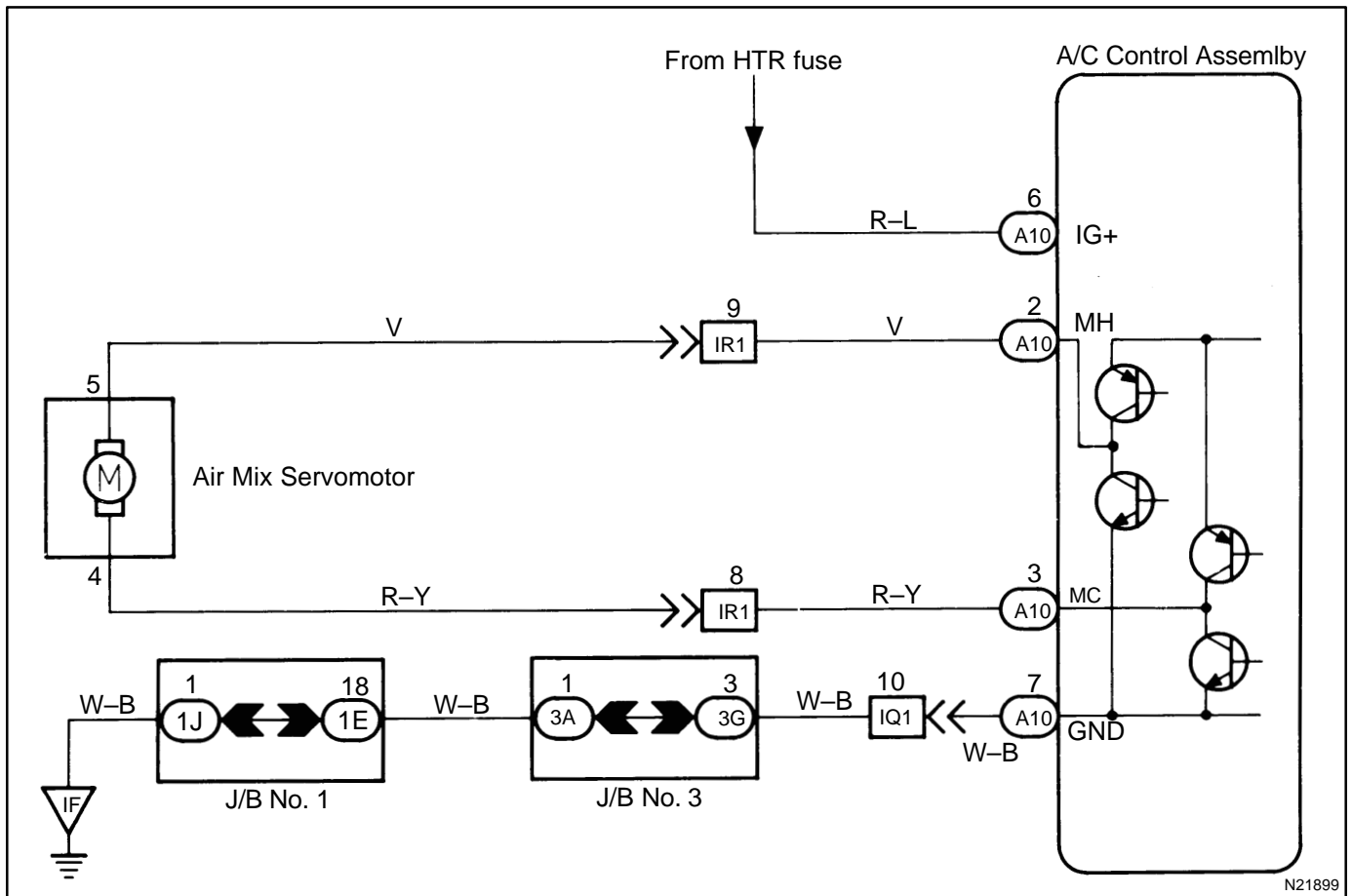
<b>DTC</b>	<b>41</b>	<b>Air Mix Servomotor Circuit</b>
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## CIRCUIT DESCRIPTION

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

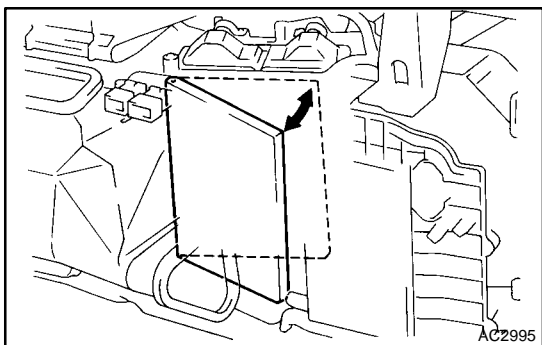
DTC No.	DTC Detecting Condition	Trouble Area
41	Air mix damper position sensor value does not change even if A/C control assembly operates air mix servomotor.	<ul style="list-style-type: none"> <li>• Air mix servomotor</li> <li>• Air mix damper position sensor</li> <li>• Harness or connector between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

## WIRING DIAGRAM



## INSPECTION PROCEDURE

## 1 Actuator check.

**PREPARATION:**

- (a) Warm up the engine.
- (b) Set to the actuator check mode (See page DI-813).
- (c) Press the FRS switch and change it to step operation.

**CHECK:**

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

**OK:**

Display Code	Air Mix Damper	Condition
0 – 2	0 % (Fully closed)	Cool air comes out
3, 4	50 %	
5 – 7	100 % (Fully opened)	Warm air comes out

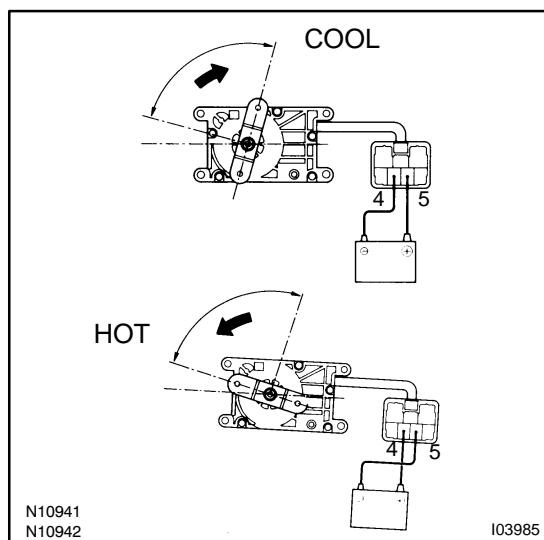
OK

Proceed to next circuit inspection shown on matrix chart (See page DI-821).

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Go to step 2.

## 2 Check air mix servomotor.

**PREPARATION:**

Remove air mix servomotor.

**CHECK:**

Connect positive  $\oplus$  lead to terminal 5 and negative  $\ominus$  lead to terminal 4.

**OK:**

The lever turns smoothly to cool side.

**CHECK:**

Connect negative  $\ominus$  lead to terminal 5 and positive  $\oplus$  lead to terminal 4.

**OK:**

The lever turns smoothly to hot side.

NG

Replace air mix servomotor assembly.

OK

3	Check for open and short in harness and connector between air conditioning control assembly and air mix servomotor assembly (See page <a href="#">IN-29</a> ).
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**NG**

Repair or replace harness or connector.

**OK**

Check and replace air conditioning control assembly.