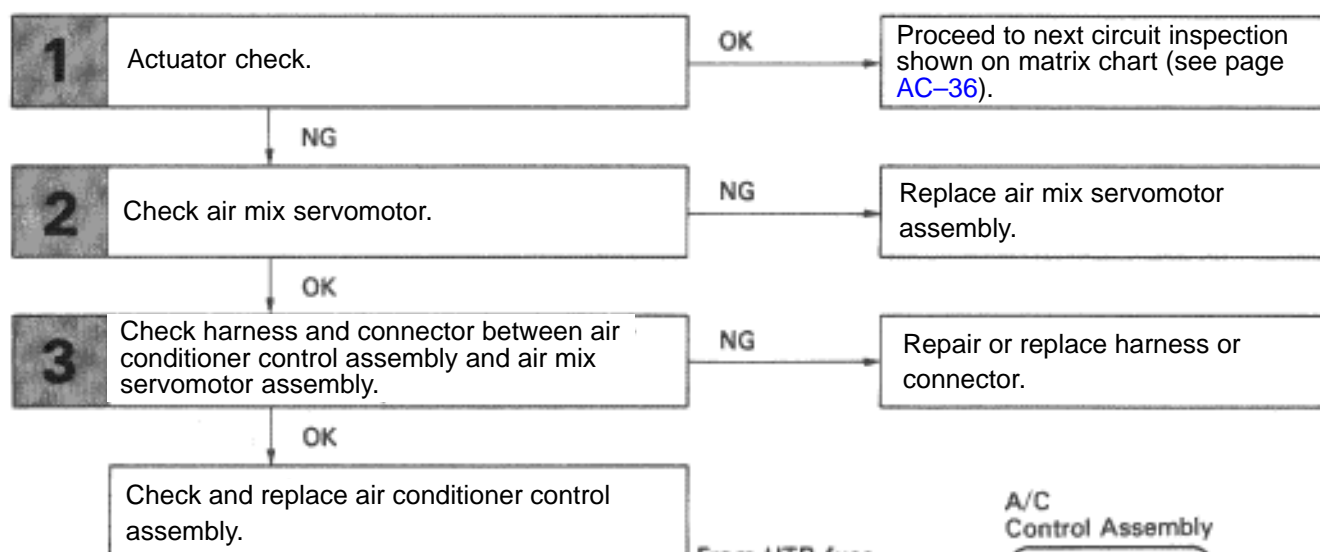
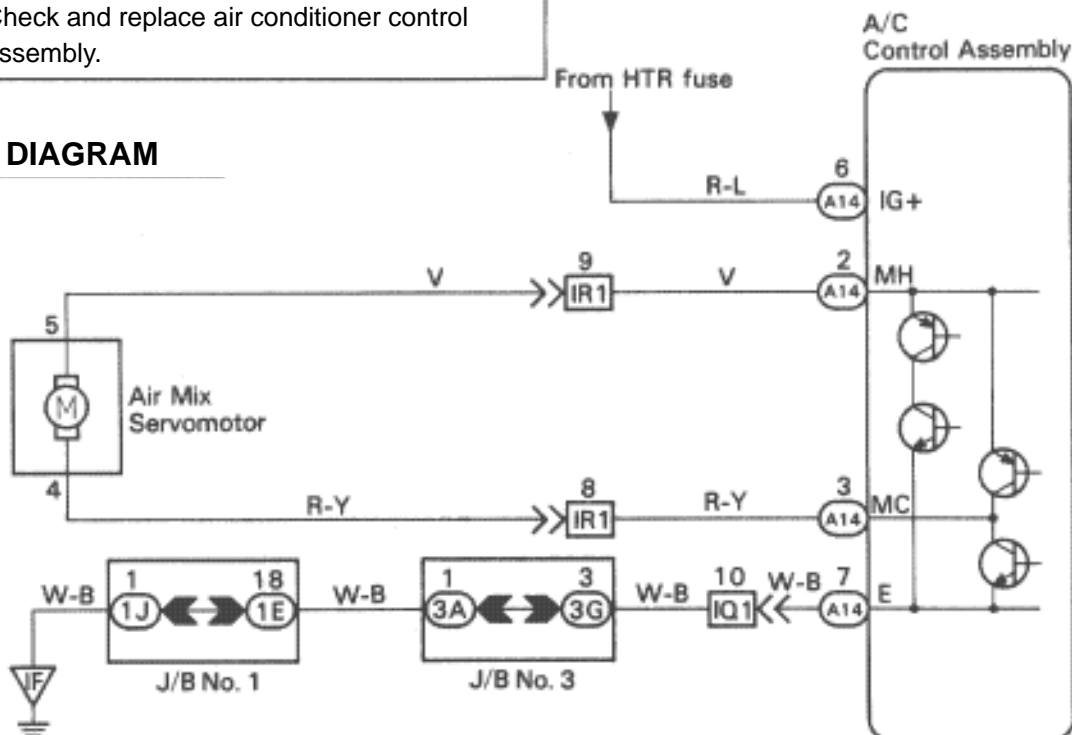


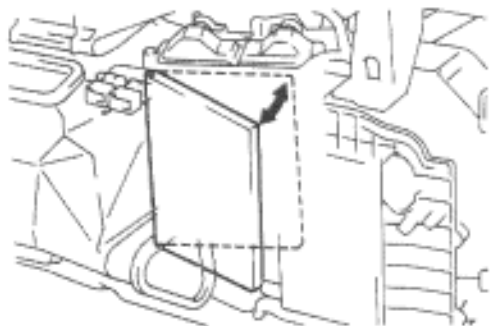
**Diag. Code 41****Air Mix Servomotor Circuit****— CIRCUIT DESCRIPTION —**

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

Code No.	Diag. Code Detecting Condition	Trouble area
<b>41</b>	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>

**— DIAGNOSTIC CHART —****WIRING DIAGRAM**

## INSPECTION PROCEDURE

6. **1 Actuator check.**

AC2995

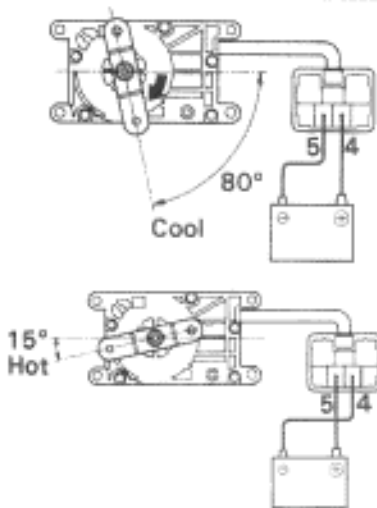
- P** 3. 1. Warm up the engine.  
 4. 2. Set to the actuator check mode (see page AC-30).  
 5. 3. Press the FRS switch and change it to step operation.
- C** Press the FRS switch and check the operation of the air mix damper and the condition of the blower.

**OK**

Display Code	Air Mix damper	Condition
20 ~ 22	0% (Fully closed)	Cool air comes out
23 ~ 24	50%	
25 ~ 27	100% (Fully opened)	Warm air comes out

**NG****OK**

Proceed to next circuit inspection shown on matrix chart (see AC-36).

**2 Check air mix servomotor.**AC2922  
AC2921

- P** Remove heater unit
- C** Connect positive  $\oplus$  lead to terminal 4 and negative  $\ominus$  lead to terminal 5.
- OK** The lever turns smoothly to cool side.
- C** Connect negative  $\ominus$  lead to terminal 4 and positive  $\oplus$  lead to terminal 5.
- OK** The lever turns smoothly to hot side.

**OK****NG**

Replace air mix servomotor assembly.

**3 Check for open and short in harness and connector between air conditioner control assembly and air mix servomotor assembly (see page IN-27).****OK****NG**

Repair or replace harness or connector.

Check and replace air conditioner control assembly.