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DTC	B1441/41	Air Mix Damper Control Servomotor Circuit (Passenger Side)

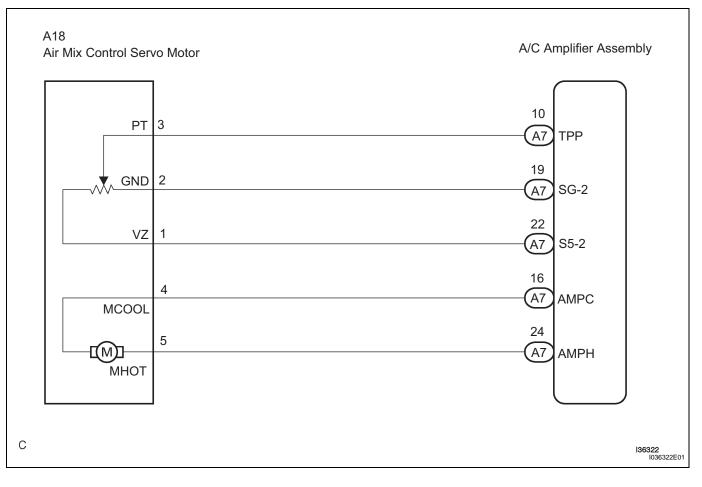
DESCRIPTION

The air mix control servo motor (air mix damper servo sub-assembly) is controlled by the A/C amplifier. The air mix control servo motor moves the air mix damper by rotating (normal, reverse) the motor with electrical power from the A/C amplifier assembly.

This adjusts the mix ratio of the air that passes through the evaporator and heater core and controls the air flow temperature. Air flow temperature changes when moving the air mix damper to the target point. The target point can be detected with the air mix damper position sensor.

DTC No.	DTC Detecting Condition	Trouble Area
B1441/41	Air mix damper position sensor value does not change even if air conditioning amplifier assembly operates air mix control servo motor.	 Air mix control servo motor Harness or connector between air mix control servo motor and A/C amplifier assembly A/C amplifier assembly

WIRING DIAGRAM



1	READ VALUE OF INTELLIGENT TESTER	
	(a)	Connect the intelligent tester to the DLC3.

(b) Turn the ignition switch ON and push the intelligent tester main switch on.

(c) Select the item in the DATA LIST, and read the display on the intelligent tester.

DATA LIST / AIR CONDITIONER

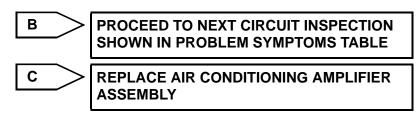
ltem	Measurement Item / Display (Range)	Normal Condition	Diagnostic Note
A/M DAMP POS-P	Air mix damper position (Passenger side) / min.: -14% max.: 113.5%	Damper is at "MAX. COOL": -5%	
A/M DAMP TARG-P	Air mix damper target position (Passenger side) / min.: -14% max.: 113.5%	Damper is at "MAX. HOT": 105%	-

OK:

When the target position is at the "MAX. COOL" (-5%), the actual opening angle is 19.0% or less. When the target position is at the "MAX. HOT" (105%), the actual opening angle is 81.0% or more.

Result

Result	Proceed to
NG	Α
OK (Checking from the PROBLEM SYMPTOMS TABLE)	В
OK (Checking from the DTC)	C



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PERFORM ACTIVE TEST BY INTELLIGENT TESTER

- (a) Connect the intelligent tester to the DLC3.
- (b) Turn the ignition switch ON and push the intelligent tester main switch on.
- (c) Select the item below in the ACTIVE TEST and then check that the air flow temperature by hand.

ACTIVE TEST / AIR CONDITIONER

Item	Test Details / Display (Range)	Diagnostic Note
AIR MIX DAMP-P	Air mix damper (Passenger side) / min.: -14% max.: 113.5%	-

OK:

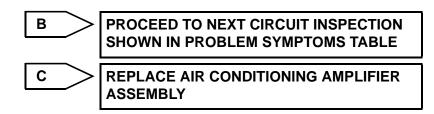
When the lever is moved to the "MAX. HOT" side, warm air comes out.

When the lever is moved to the "MAX. COOL" side, cool air comes out.

Result

Result	Proceed to
NG	A
OK (Checking from the PROBLEM SYMPTOMS TABLE)	В
OK (Checking from the DTC)	C





A

3

PERFORM ACTUATOR CHECK

- (a) Set the actuator check mode (See page AC-11).
 - (b) Press the UPDr switch and change to the step operation.
- (c) Check the air flow temperature by hand.

Display Code	Air Mix Damper Operation
0	"COOL" side (-5%)
1	"COOL" side (-5%)
2	"COOL" side (-5%)
3	"COOL" side (-5%)
4	"COOL"/"HOT" (50.0% opened)
5	"COOL"/"HOT" (50.0% opened)
6	"COOL"/"HOT" (50.0% opened)
7	"HOT" side (105%)
8	"HOT" side (105%)
9	"HOT" side (105%)

OK:

Air flow temperature changes in accordance with each display code.

Result

Result	Proceed to
NG	A
OK (Checking from the PROBLEM SYMPTOMS TABLE)	В
OK (Checking from the DTC)	С

В	PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE
C	REPLACE AIR CONDITIONING AMPLIFIER ASSEMBLY

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