DTC	B1442/42	Air Inlet Damper Control Servo Motor Circuit
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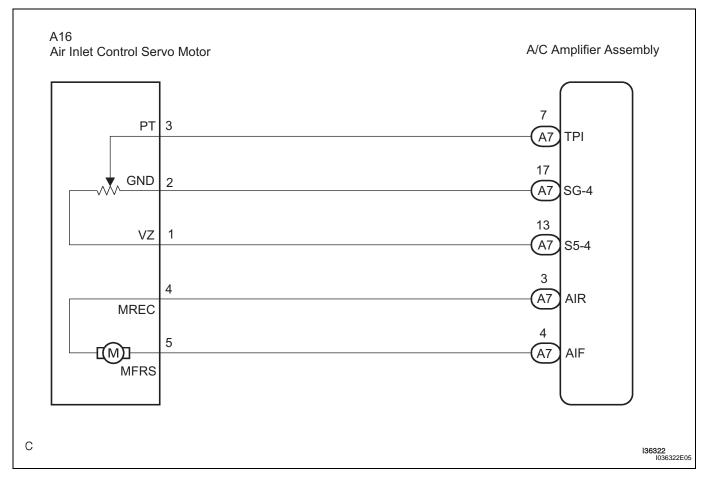
DESCRIPTION

The air inlet control servomotor is controlled by the A/C amplifier assembly and moves the air inlet control servo motor to the desired position.

The air inlet control servo motor switches between "RECIRCULATION" and "FRESH" by rotating the motor (normal, reverse) with electrical power from the A/C amplifier assembly. This controls intake air and switches "RECIRCULATION", "FRESH" and "HALF-RECIRCULATION".

DTC No.	DTC Detecting Condition	Trouble Area
B1442/42	Air inlet damper position sensor value does not change even if air conditioning amplifier assembly operates air inlet control servo motor.	 Air inlet control servo motor Harness or connector between air inlet 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 below in the DATA LIST, and read the display on the intelligent tester.

DATA LIST / AIR CONDITIONER

Item	Measurement Item / Display (Range)	Normal Condition	Diagnostic Note
A/I DAMP POS	Air inlet damper position / min.: - 14% max.: 113.5%	Damper is at "RECIRCULATION": -9%	
A/I DAMP TARG	Air inlet damper target position / min.: -14% max.: 113.5%	Damper is at "HALF- Ope RECIRCULATION": 35 to 75% Damper is at "FRESH": 109%	Open in the circuit: 50.0%

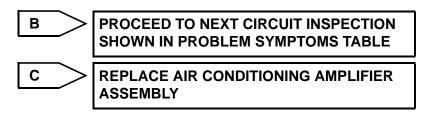
OK:

When the target position is at the "RECIRCULATION" (-9%), the actual opening angle is 19.0% or less. When the target position is at the "FRESH" (109%),

the actual opening angle is 81.0% or more.

Result

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



A

2

PERFORM ACTIVE TEST BY INTELLIGENT TESTER

- (a) Remove the glove box to see and check the recirculation damper operation.
- (b) Connect the intelligent tester to the DLC3.
- (c) Turn the ignition switch ON and push the intelligent tester main switch on.
- (d) Select the item below in the ACTIVE TEST and then check that the damper operates.

ACTIVE TEST / AIR CONDITIONER

Item	Test Details / Display (Range)	Diagnostic Note
A/I DAMP-LINEAR	Air inlet damper position (linear) / min.: -14% max.: 113.5%	-

OK:

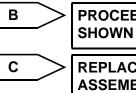
Lever turns from "RECIRCULATION" side to "FRESH" side smoothly. Lever turns from "FRESH" side to

"RECIRCULATION" side smoothly.

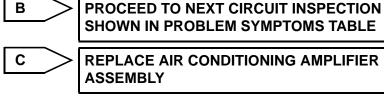
Result

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

AC



AC



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3

PERFORM ACTUATOR CHECK

- (a) Remove the glove box to see and check the recirculation damper operation.
- (b) Set the actuator check mode (See page AC-11).
- (c) Press the UPDr switch in order and check the operation of recirculation damper.

Display Code	Recirculation damper position
0	FRESH (109%)
1	FRESH (109%)
2	R/F (50%)
3	RECIRCULATION (-9%)
4	FRESH (109%)
5	FRESH (109%)
6	FRESH (109%)
7	FRESH (109%)
8	FRESH (109%)
9	FRESH (109%)

OK:

Recirculation damper position changes in accordance with each display code.

Result

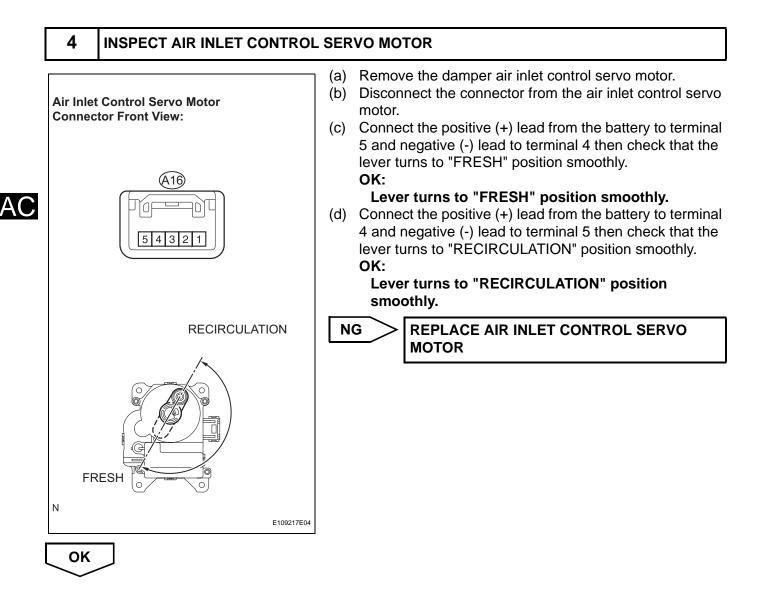
Result	Proceed to
NG	Α
OK (Checking from the PROBLEM SYMPTOMS TABLE)	В
OK (Checking from the DTC)	С

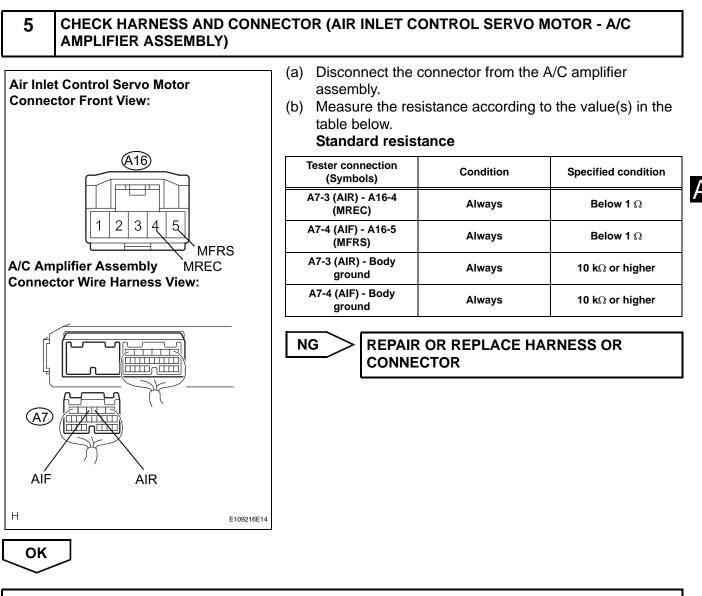


PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE

REPLACE AIR CONDITIONING AMPLIFIER ASSEMBLY







REPLACE AIR CONDITIONING AMPLIFIER ASSEMBLY

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