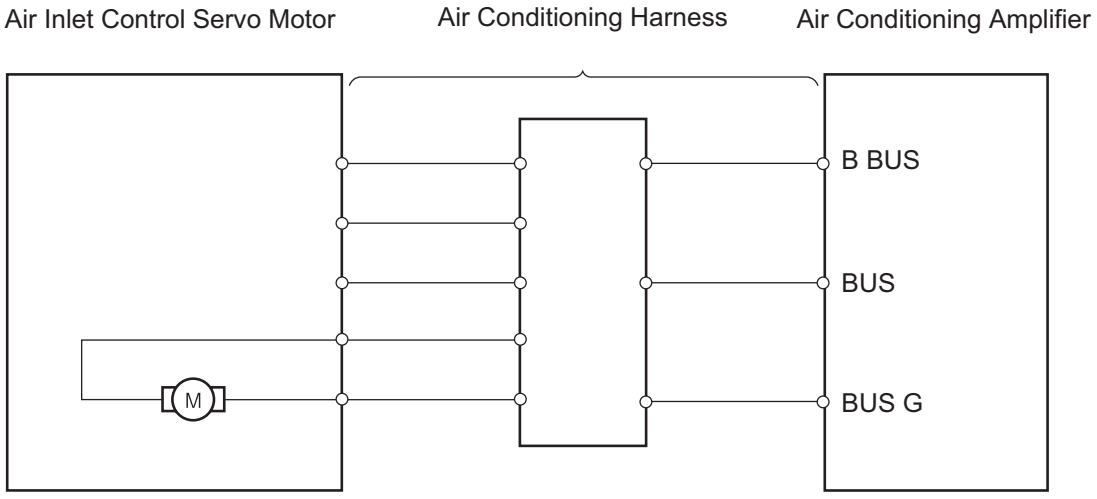
DTC	B1442/42	Air Inlet Damper Control Servo Motor Circuit

DESCRIPTION

The damper servo (air inlet control) sends pulse signals to indicate the damper position to the air conditioning amplifier. The air conditioning amplifier activates the motor (normal or reverse) based on these signals to move the air inlet control damper to the appropriate position, which controls the intake air settings (FRESH, FRESH / RECIRCULATION and RECIRCULATION).
HINT:
Confirm that there are no mechanical problems because this DTC can be output when either a damper link or damper is mechanically locked.

DTC No.	DTC Detection Condition	Trouble Area
B1442/42	Air inlet damper position does not change even if air conditioning amplifier operates air inlet damper control servo motor	• Air inlet control servo motor • Air conditioning harness • Air conditioning amplifier

WIRING DIAGRAM



INSPECTION PROCEDURE

1	READ VALUE OF INTELLIGENT TESTER (A/I DAMP TARG PLS)

(a) Connect the intelligent tester (with CAN VIM) to the DLC3.
(b) Turn the ignition switch ON and turn the intelligent tester main switch ON.
(c) Select the items below in the DATA LIST, and read the value displayed on the intelligent tester.

AC

Air conditioning amplifier

Item	Measurement Item / Display (Range)	Normal Condition	Diagnostic Note
A/I DAMP PLS	Air inlet damper target pulse / Min.: 0, Max.: 255	Customized value displayed	-

OK:

The display is as specified in the normal condition column.

Result

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

B → **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE**

C → **REPLACE AIR CONDITIONING AMPLIFIER**

A

2 REPLACE DAMPER SERVO SUB-ASSEMBLY

HINT:
Since the servo motor cannot be tested when it is removed from the vehicle, replace the servo motor with a normal one and check that the condition returns to normal.

OK:

Same problem does not occur.

NG → **REPAIR OR REPLACE AIR CONDITIONING HARNESS ASSEMBLY**

OK

SYSTEM IS OK

AC