

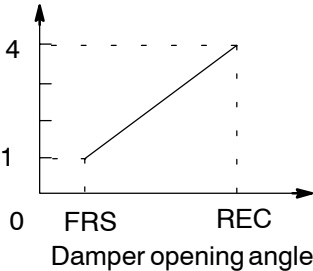
DTC	B1432/32	Air Inlet Damper Position Sensor Circuit
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DTC	B1442/42	Air Inlet Damper Position Sensor Circuit
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CIRCUIT DESCRIPTION

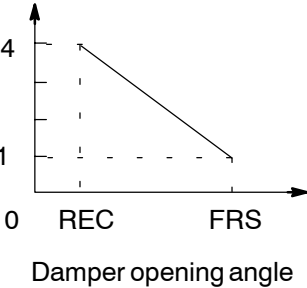
LHD Models:

TPI terminal voltage (V)



RHD Models:

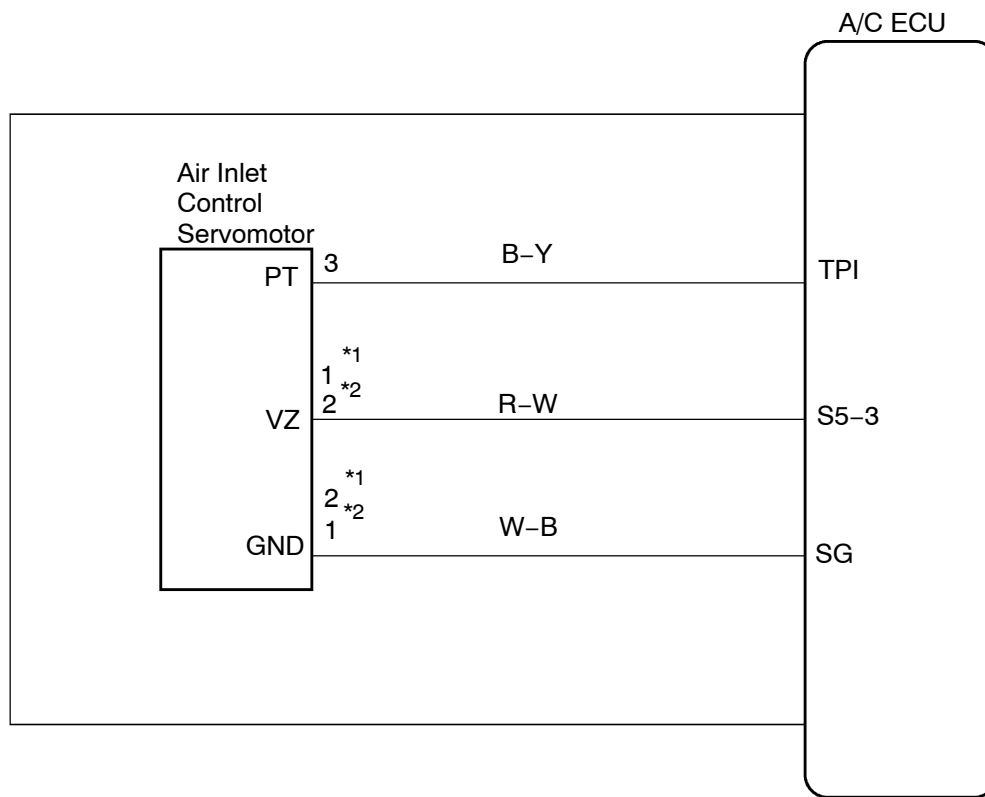
TPI terminal voltage (V)



This sensor detects the position of the air inlet damper and sends the appropriate signals to the A/C ECU. The position sensor is built into the air inlet damper control servomotor assembly.

DTC No.	Detection Item	Trouble Area
B1432/32	Short to ground or power source circuit in air inlet damper position sensor circuit.	• Air inlet damper position sensor. • Harness or connector between air inlet damper control servomotor assembly and A/C ECU. • A/C ECU.
B1442/42	Air inlet damper position sensor value does not change even if A/C ECU operates air inlet damper control servomotor.	

WIRING DIAGRAM



*1: LHD Models

C *2: RHD Models

I21190

INSPECTION PROCEDURE

HINT:

In case of using the hand-held tester, start the inspection from step1 and in case of not using the hand-held tester, start from step 2.

1	Check air inlet damper position using hand-held tester.
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PREPARATION:

Connect the hand-held tester to the DLC3.

CHECK:

Check the current position of air inlet damper and the target position of air inlet damper.

OK:

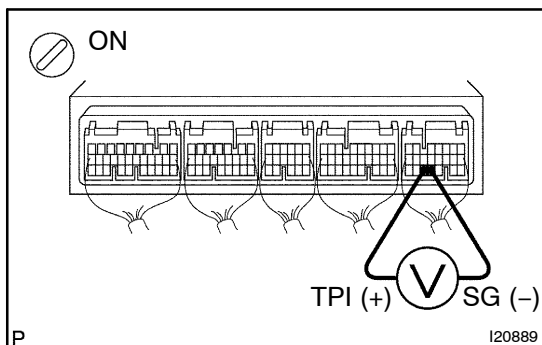
The current position and target position are almost similar.

OK

Check and replace A/C ECU.

NG

2 Check voltage between terminals TPI and SG of A/C ECU connector.



PREPARATION:

Remove A/C ECU with connectors still connected.

CHECK:

- Turn ignition switch to ON.
- Press REC/FRS switch to change air inlet between fresh and recirculation air, and measure voltage between terminals TPI and SG of A/C ECU when the air inlet damper control servomotor operates.

OK:

FRS-REC Switch	Voltage
REC	3.5 – 4.5 V
FRS	0.5 – 1.5 V

HINT:

As the air inlet damper control servomotor is moved from REC side to FRS side, the voltage decreases.

NG

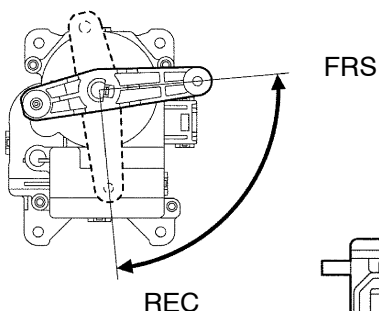
Go to step 3.

OK

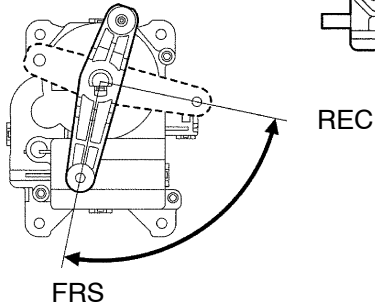
Proceed to next circuit inspection shown on problem symptoms table ([See page DI-1772](#)). However, if DTC B1432/32 or B1442/42 is displayed, check and replace A/C ECU.

3 Check air inlet damper position sensor.

LHD:



RHD:



PREPARATION:

Remove air inlet servomotor (See page AC-44).

CHECK:

Measure resistance between terminals 1 and 2 of air inlet damper control servomotor assembly connector.

OK:

Resistance : 4.2 – 7.8 kΩ

CHECK:

While operating air inlet damper control servomotor, following the procedure on page DI-1821, measure resistance between terminals 2 and 3 of air inlet damper control servomotor assembly connector.

OK:

Damper Position	Resistance
REC side	3.4 – 6.2 kΩ
FRS side	0.8 – 1.6 kΩ

HINT:

As the air inlet damper control servomotor moves from REC side to FRS side, the resistance decreases.

NG

Replace air inlet damper control servomotor.

OK

4 Check harness and connectors between A/C ECU and air inlet damper control servomotor assembly (See page IN-35).

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Repair or replace harness or connector.

OK

Check and replace A/C ECU.