

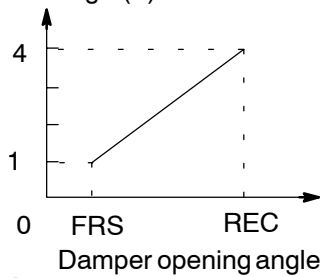
DTC	B1432/32	Air Inlet Damper Position Sensor Circuit
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DTC	B1442/42	Air Inlet Damper Position Sensor Circuit
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CIRCUIT DESCRIPTION

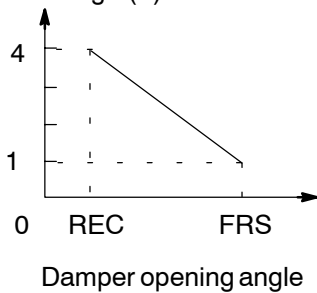
LHD Models:

TPI terminal voltage (V)



RHD Models:

TPI terminal voltage (V)

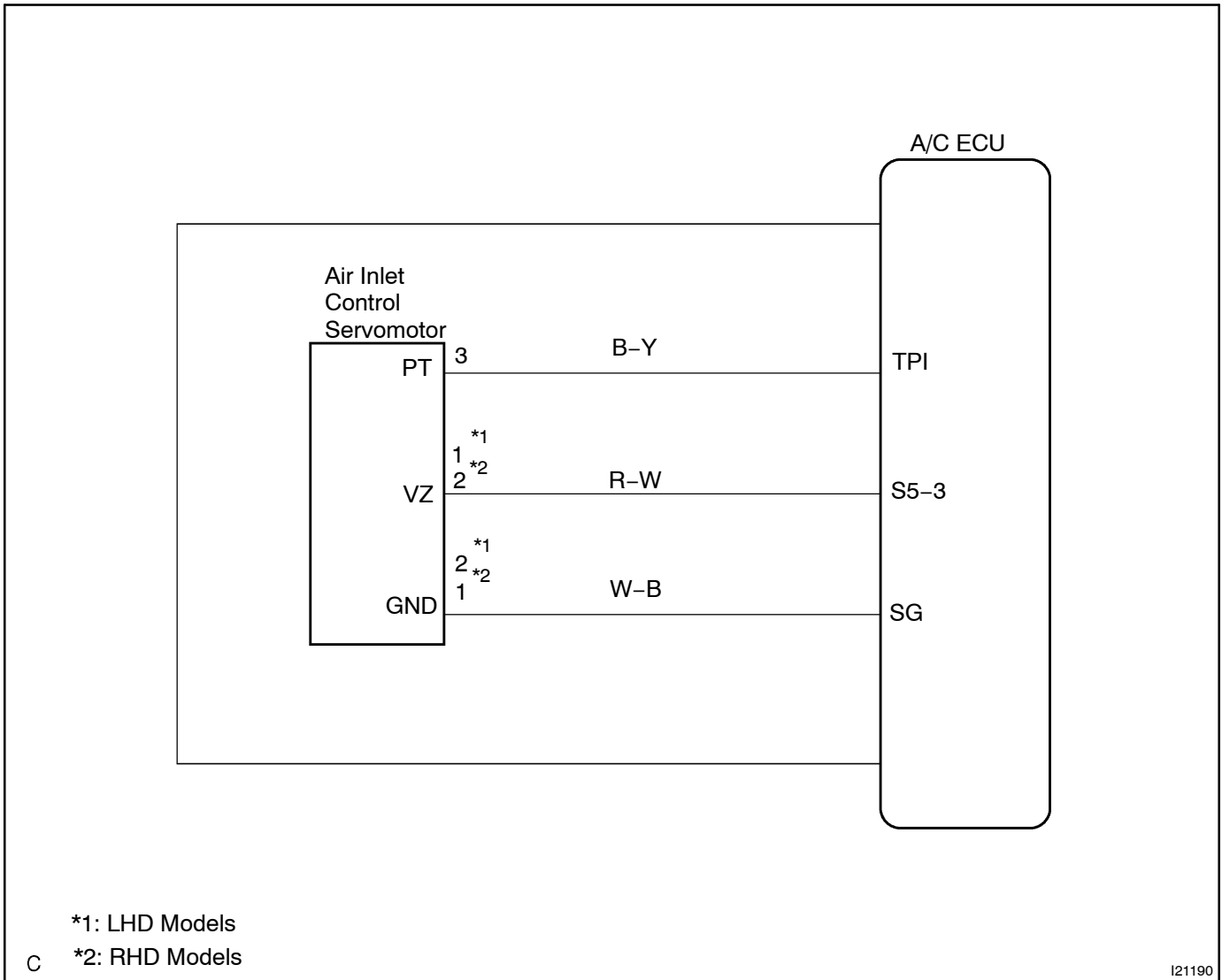


This sensor detects the position of the air inlet damper and sends the appropriate signals to the A/C ECU.

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.	<ul style="list-style-type: none"> • Air inlet damper position sensor. • Harness or connector between air inlet damper control servomotor assembly and 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.	<ul style="list-style-type: none"> • A/C ECU.

WIRING DIAGRAM



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:

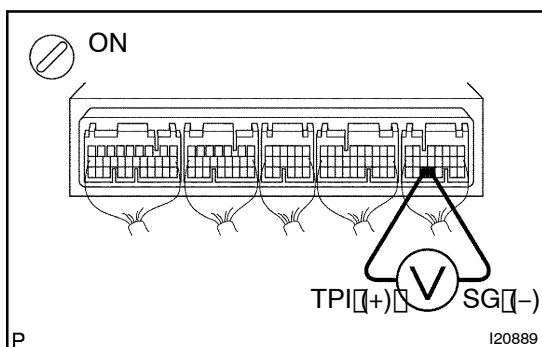
The current position and target position are almost similar.

OK

Check and replace A/C ECU.

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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 - 4.5V
FRS	0.5 - 1.5V

HINT:

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

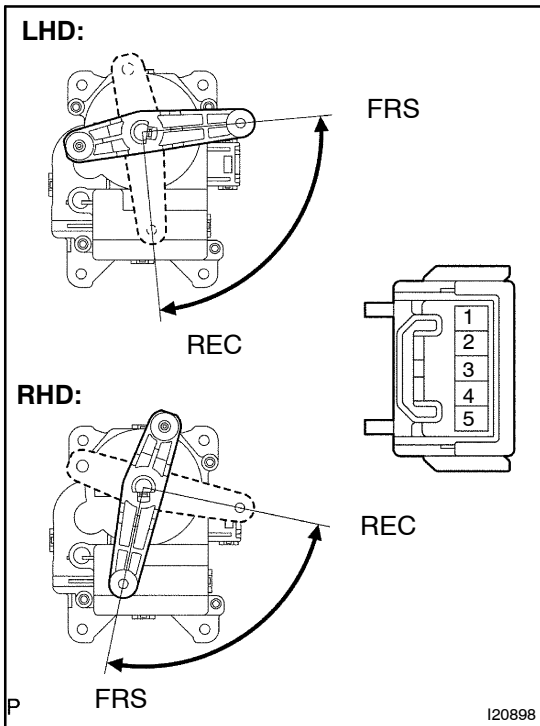
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Go to step 3.

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.



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.

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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.