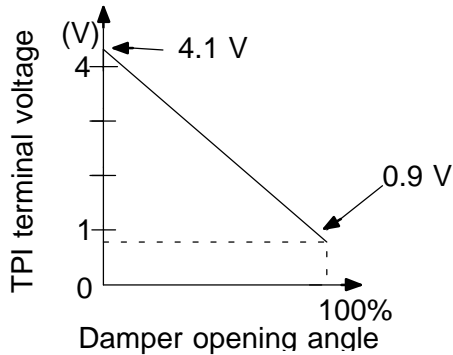


DTC	B1432/32	Air Inlet Damper Position Sensor Circuit
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DTC	B1442/42	Air Inlet Damper Position Sensor Circuit
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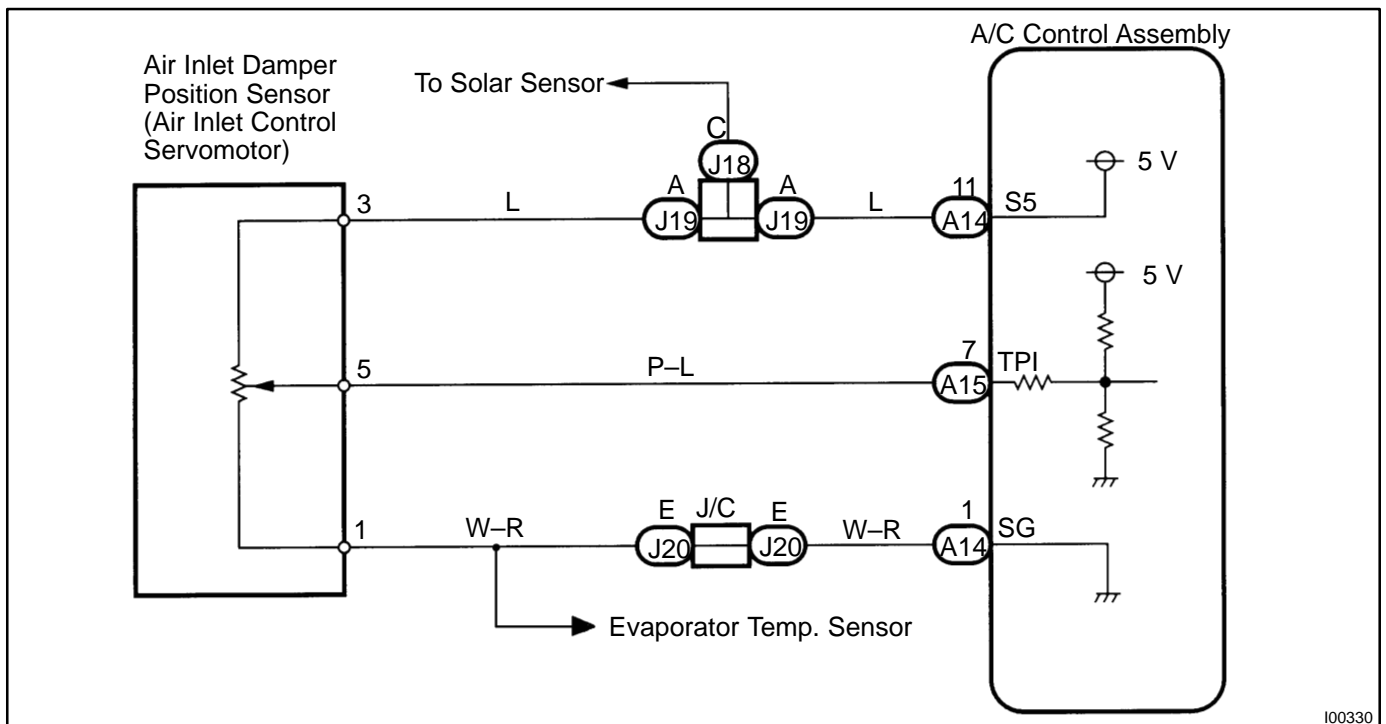
CIRCUIT DESCRIPTION



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

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 control servomotor and A/C control assembly.
B1442/42	Air inlet damper position sensor value does not change even if A/C control assembly operates air inlet control servomotor.	<ul style="list-style-type: none"> ●A/C assembly.

WIRING DIAGRAM



100330

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 step2.

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

PREPARATION:

Connect the hand-held tester to the DLC3.

CHECK:

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

OK:

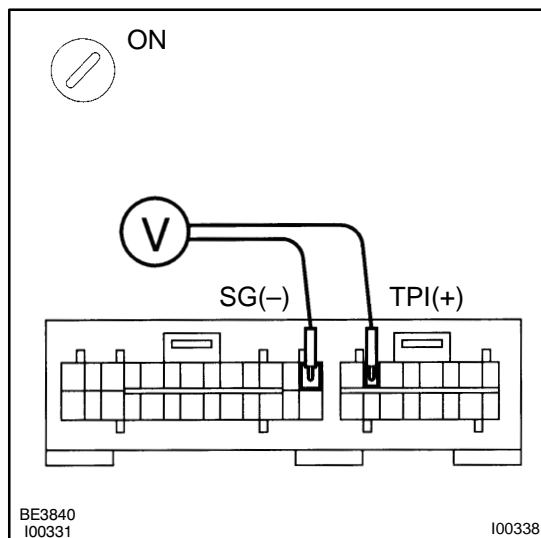
The current position and target position are almost similar.

OK

Check or replace A/C control assembly.

NG

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



PREPARATION:

- Remove A/C control assembly with connectors still connected (See page [BO-79](#)).
- Turn ignition switch ON.

CHECK:

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

OK:

REC/FRS Switch	Voltage
REC	3.5 – 4.5 V
FRS	0.5 – 1.8 V

HINT:

As the air inlet control servomotor is moved from REC side to FRS side, the voltage decreases gradually without interruption.

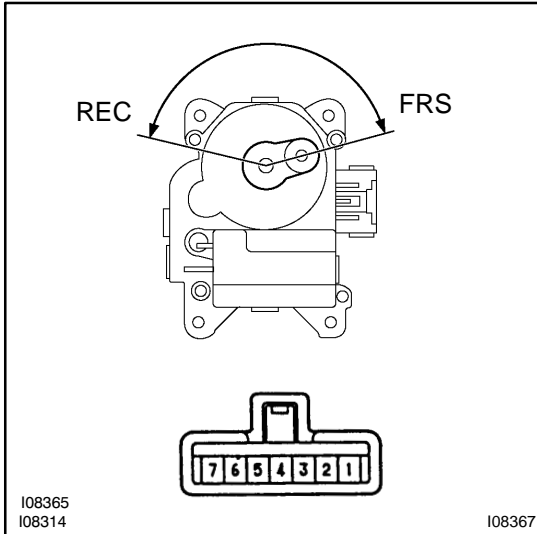
NG

Go to step 3.

OK

Proceed to next circuit inspection shown on matrix chart (See page [DI-711](#)). However, if DTC B1432/32 or B1442/42 is displayed, check and replace A/C control assembly.

3 Check air inlet damper position sensor.



PREPARATION:

- Remove air inlet control servomotor (See page [AC-71](#)).
- Disconnect air inlet control servomotor connector.

CHECK:

Measure resistance between terminals 1 and 3 of air inlet control servomotor connector.

OK:

Resistance : 4.2 – 7.8 kΩ

CHECK:

While operating air inlet control servomotor as in the procedure on page, measure resistance between terminals 1 and 5 of air inlet control servomotor connector.

OK:

Resistance :

Damper Position	Resistance
REC side	3.4 – 6.4 kΩ
FRS side	0.76 – 1.4 kΩ

HINT:

As the air inlet control servomotor is moved from REC side to FRS side, the voltage decreases gradually without interruption.

NG

Replace air mix control servomotor.

OK

4 Check harness and connector between A/C control assembly and air inlet control servomotor. (See page [IN-31](#)).

NG

Repair or replace harness or connector.

OK

Check and replace A/C control assembly.