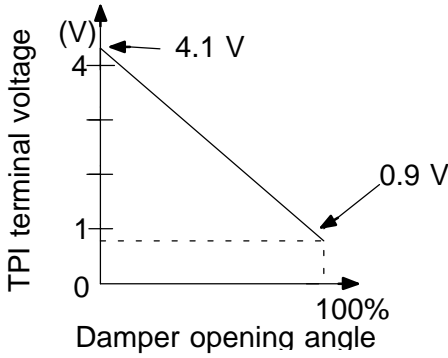


DTC	32, 42	Air Inlet Damper Position Sensor Circuit
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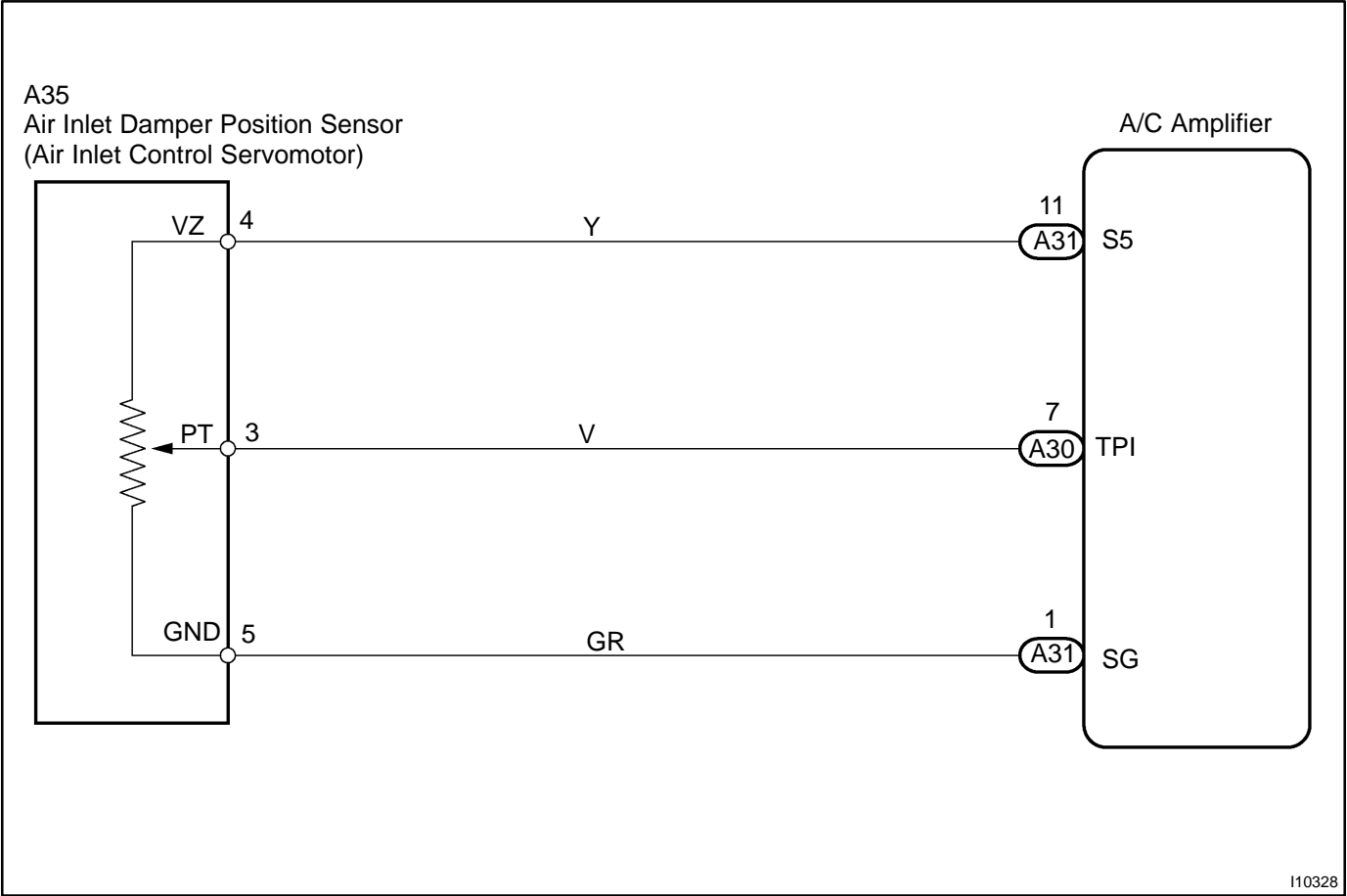
CIRCUIT DESCRIPTION



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
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 A/C control assembly
42	Air inlet damper position sensor value does not change even if A/C control assembly operates air inlet control servomotor.	

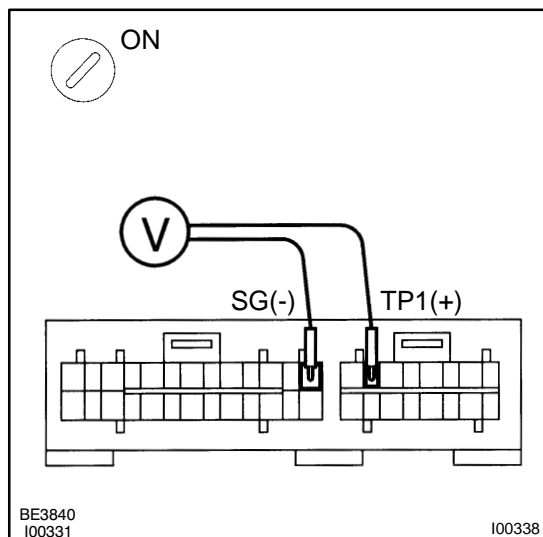
WIRING DIAGRAM



I10328

INSPECTION PROCEDURE

- 1 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 [AC-84](#)).
- Turn ignition switch to ON.

CHECK:

Press REC/FRS switch to change air inlet between fresh and recirculation air and measure voltage between terminals TP1 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

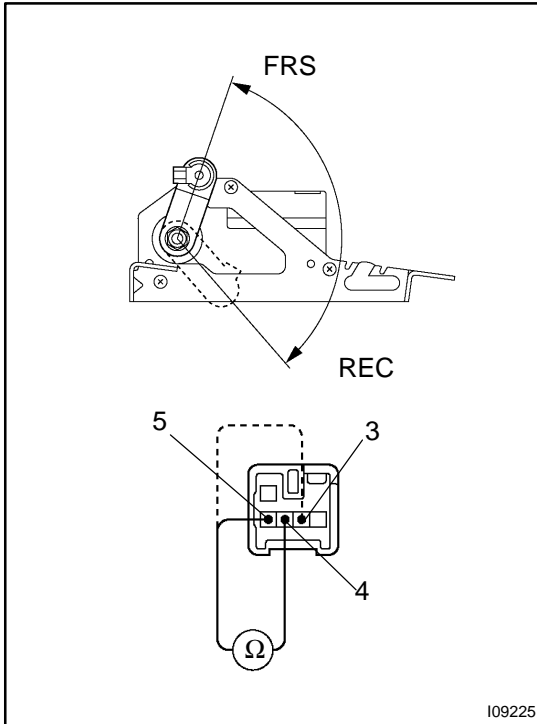
HINT:

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

NG**Go to step 2.****OK**

Proceed to next circuit inspection shown on problem symptoms table (See page [DI-586](#)). However, if DTC 32 or 42 is displayed, check and replace A/C control assembly.

2 Check air inlet damper position sensor.



PREPARATION:

- (a) Remove air inlet control servomotor (See page [AC-46](#)).
- (b) Disconnect air inlet control servomotor connector.

CHECK:

Measure resistance between terminals 4 and 5 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 3 and 4 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 resistance decreases gradually without interruption.

NG

Replace air inlet control servomotor.

OK

3 Check harness and connector between A/C control assembly and air inlet control servomotor. (See page [AC-84](#)).

NG

Repair or replace harness or connector.

OK

Check and replace A/C control assembly.