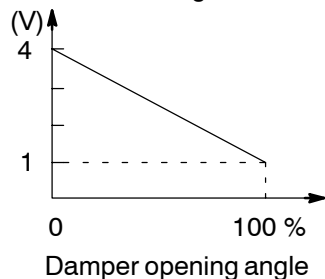


DTC	33	AIR OUTLET DAMPER POSITION SENSOR CIRCUIT
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CIRCUIT DESCRIPTION

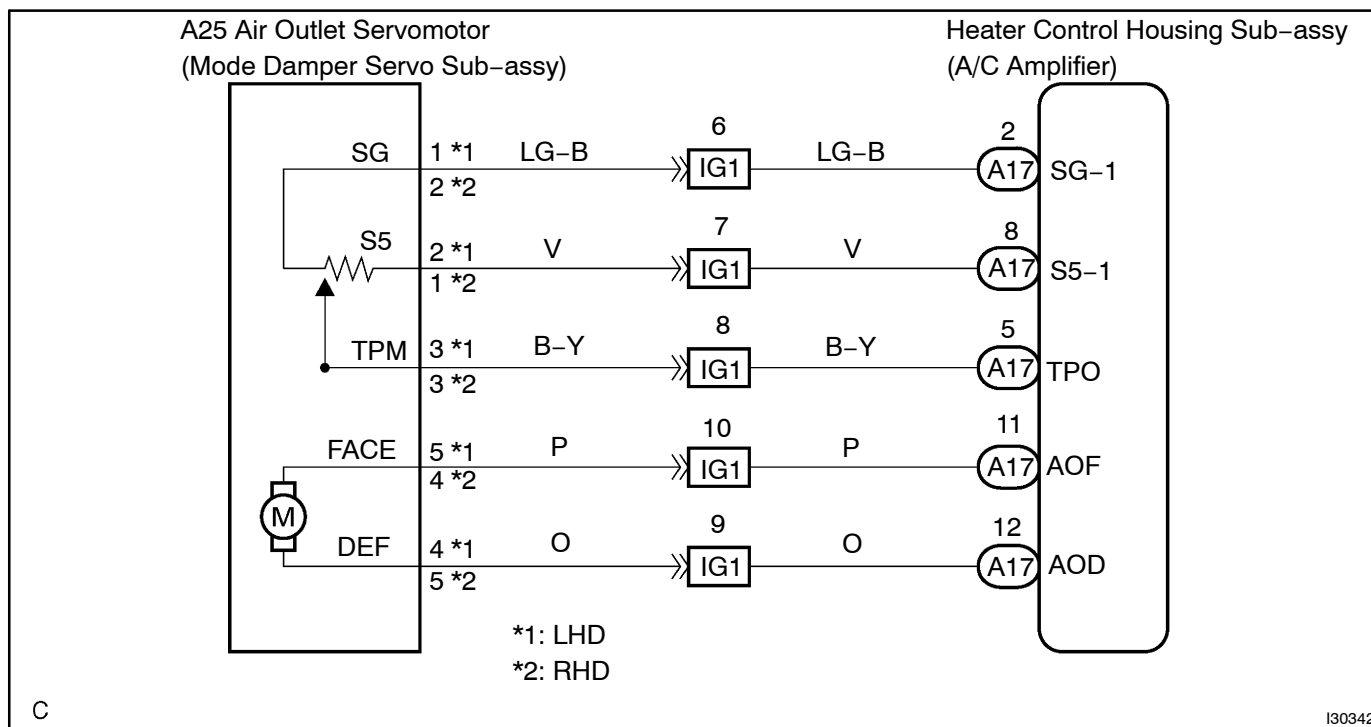
TPM terminal voltage



This sensor detects the position of the air outlet damper and sends the appropriate signals to the A/C amplifier. The position sensor is built into the mode damper servo sub-assy.

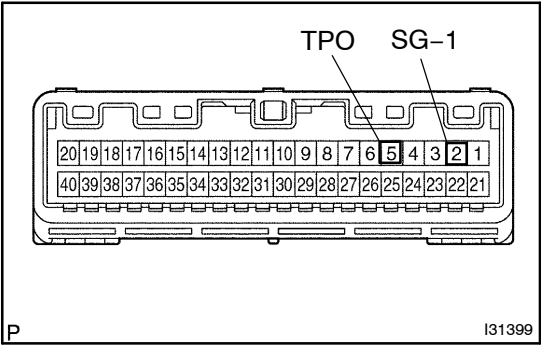
DTC No.	Detection Item	Trouble Area
33	Short to ground or power source circuit in air outlet damper position sensor circuit.	<ul style="list-style-type: none"> Air outlet damper position sensor Harness or connector between mode damper servo sub-assy and A/C amplifier A/C amplifier

WIRING DIAGRAM



INSPECTION PROCEDURE

1 INSPECT HEATER CONTROL HOUSING SUB-ASSY(TPO, SG-1)



- (a) Remove the A/C amplifier with connectors still connected.
- (b) Turn ignition switch ON.
- (c) Measure voltage between terminals TPO and SG-1 of A/C amplifier.

Voltage:
FACE: 3.5 – 4.5 V
DEF: 0.5 – 1.5 V

HINT:
As the air outlet servomotor is moved from FACE side to DEF side, the voltage decreases gradually with out interruption.

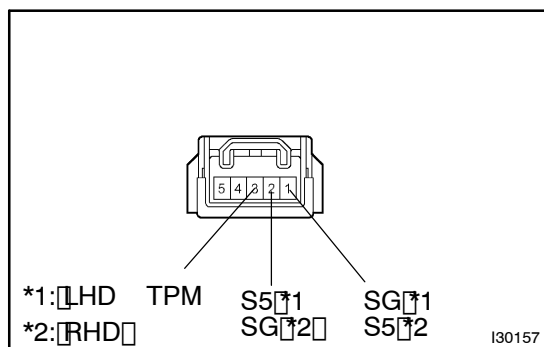
A	NG
B	OK (when checking from the PROBLEM SYMPTOM TABLE)
C	OK (Checking from the DTC)

B PROCEED TO NEXT CIRCUIT INSPECTION SHOWN ON PROBLEM SYMPTOM TABLE

C CHECK AND REPLACE HEATER CONTROL HOUSING SUB-ASSY

A

2 INSPECT MODE DAMPER SERVO SUB-ASSY



- Remove the mode damper servo sub-assy.
- Measure resistance between terminals SG and S5 of mode damper servo sub-assy connector.

Resistance: 4.2 – 7.8 kΩ

- While operating mode damper servo sub-assy as in the procedure on [page 05-730](#), measure resistance between terminal SG and TPM of mode damper servo sub-assy.

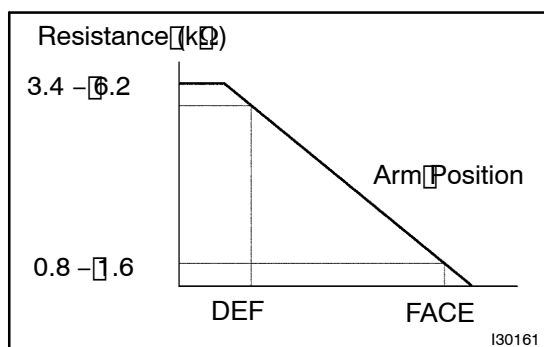
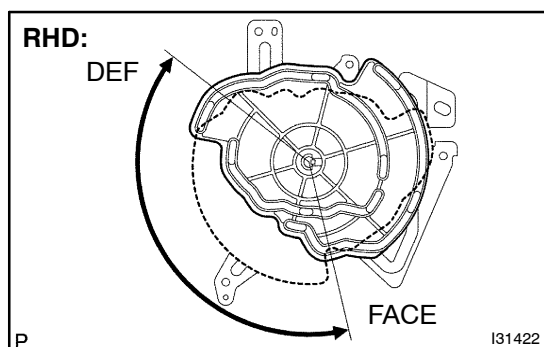
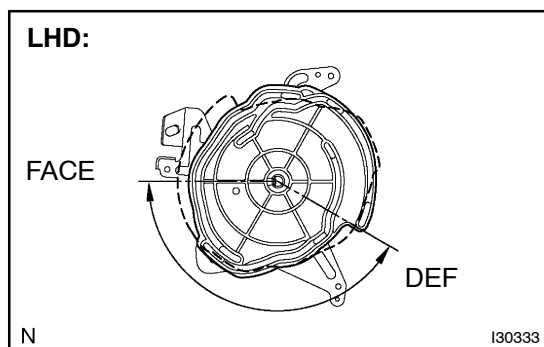
Resistance:

DEF: 3.4 – 6.2 kΩ

FACE: 0.8 – 1.6 kΩ

HINT:

As the mode damper servo sub-assy moved from DEF side to FACE side, the resistance decreases gradually with out interruption.



NG

REPLACE MODE DAMPER SERVO SUB-ASSY

OK

3**CHECK HARNESS AND CONNECTOR(BETWEEN AIR OUTLET DAMPER
POSITION SENSOR AND HEATER CONTROL HOUSING SUB-ASSY)****NG****REPAIR OR REPLACE HARNESS OR
CONNECTOR****OK****CHECK AND REPLACE HEATER CONTROL HOUSING SUB-ASSY**