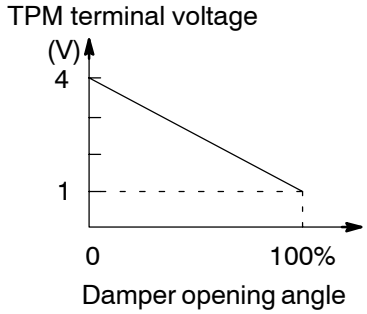
DTC	33	AIR OUTLET DAMPER POSITION SENSOR CIRCUIT

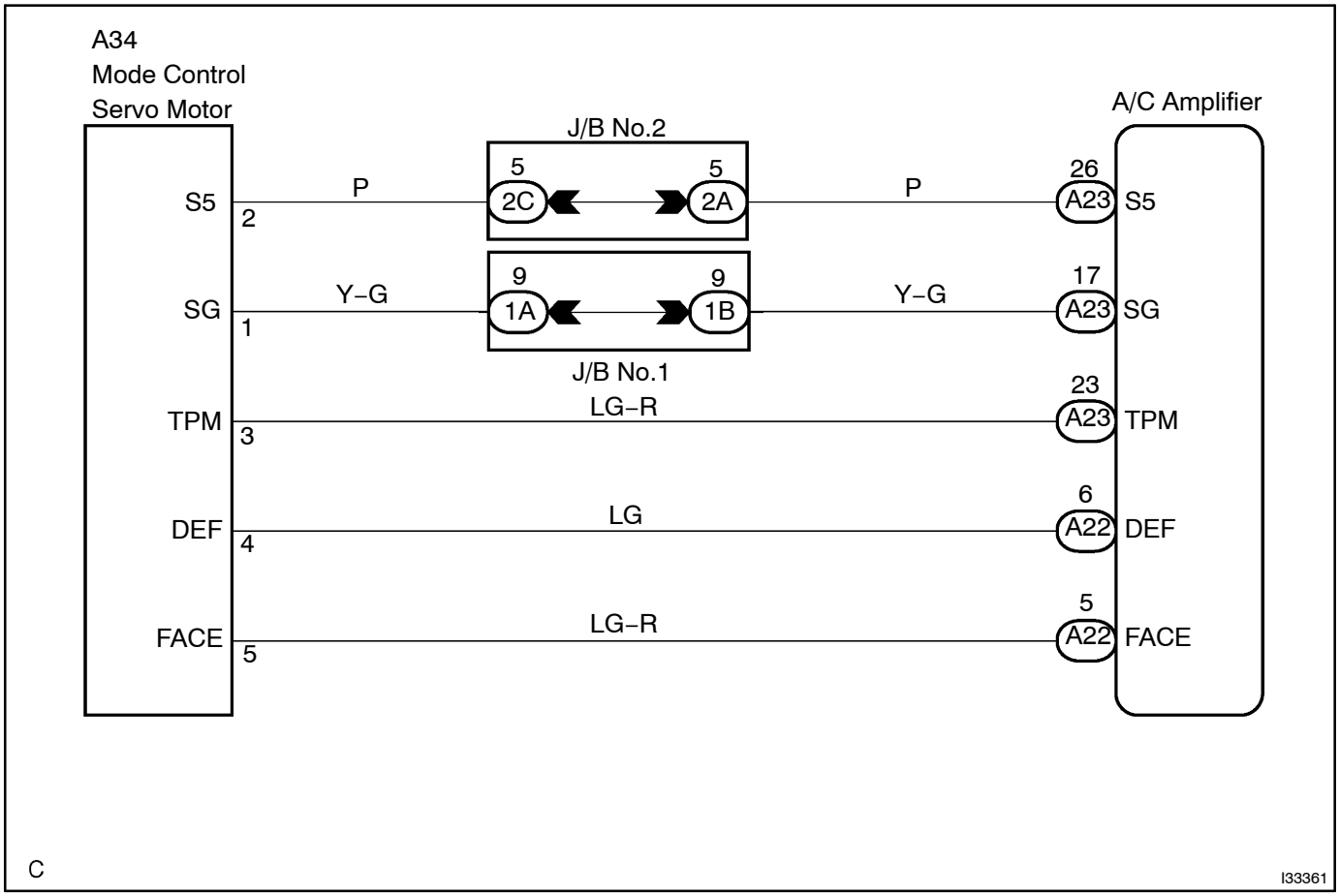
CIRCUIT DESCRIPTION



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

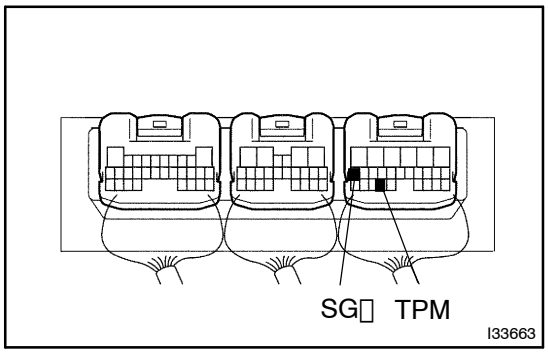
DTC No.	Detection Item	Trouble Area
33	Short to ground or power source circuit in mode damper position sensor circuit.	• Mode damper servo sub–assy • Harness or connector between mode damper servo sub–assy and A/C amplifier • A/C amplifier

WIRING DIAGRAM



INSPECTION PROCEDURE

1	INSPECT AIR CONDITIONING AMPLIFIER(TPM, SG)



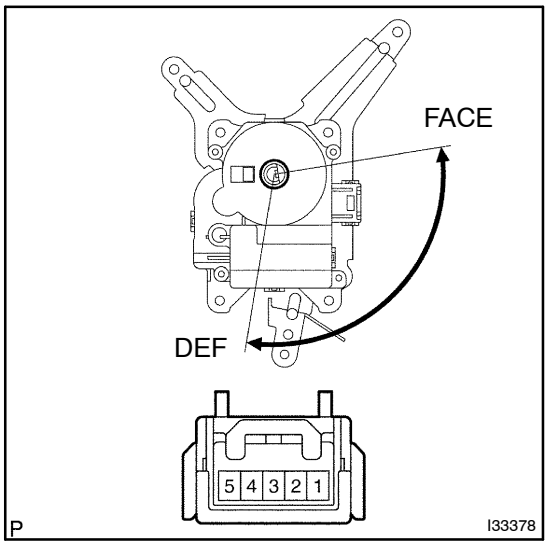
(a) Remove the A/C amplifier with being connected.
(b) Turn ignition switch ON.
(c) Change the set to activate the mode damper sub–assy and measure voltage between terminal TPM and SG of A/C amplifier assy.
Voltage:
FACE: 3.5 – 4.5 V
DEF: 0.5 – 1.5 V

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

OK	PROCEED TO NEXT CIRCUIT INSPECTION SHOWN ON PROBLEM SYMPTOMS TABLE

NG

2	INSPECT MODE DAMPER SERVO SUB–ASSY



(a) Remove the mode damper servo sub–assy.
(b) Measure resistance between terminal 1 and 2 of mode damper servo sub–assy connector.
Resistance: 4.2 – 7.8 kΩ
(c) While operating mode damper servo sub–assy as in the procedure on page 05–1085, measure resistance between terminal 1 and 3 of mode damper servo sub–assy.
Resistance:
FACE: 3.4 – 6.2 kΩ
DEF: 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(MODE DAMPER POSITION SENSOR – A/C AMPLIFIER)

NG	REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

4	READ OUTPUT DTC

(a) Clear the sensor check codes.
(b) At least 8.5 minutes pass after turning the IG switch to ON position, read DTC.
Standard: Normal codes are output.

OK → **SYSTEM OK**

NG

CHECK AND REPLACE AIR CONDITIONING AMPLIFIER