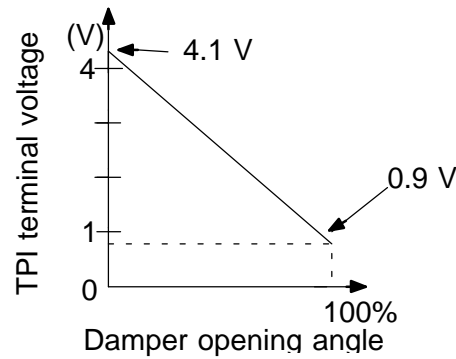


DTC	32	AIR INLET DAMPER POSITION SENSOR CIRCUIT
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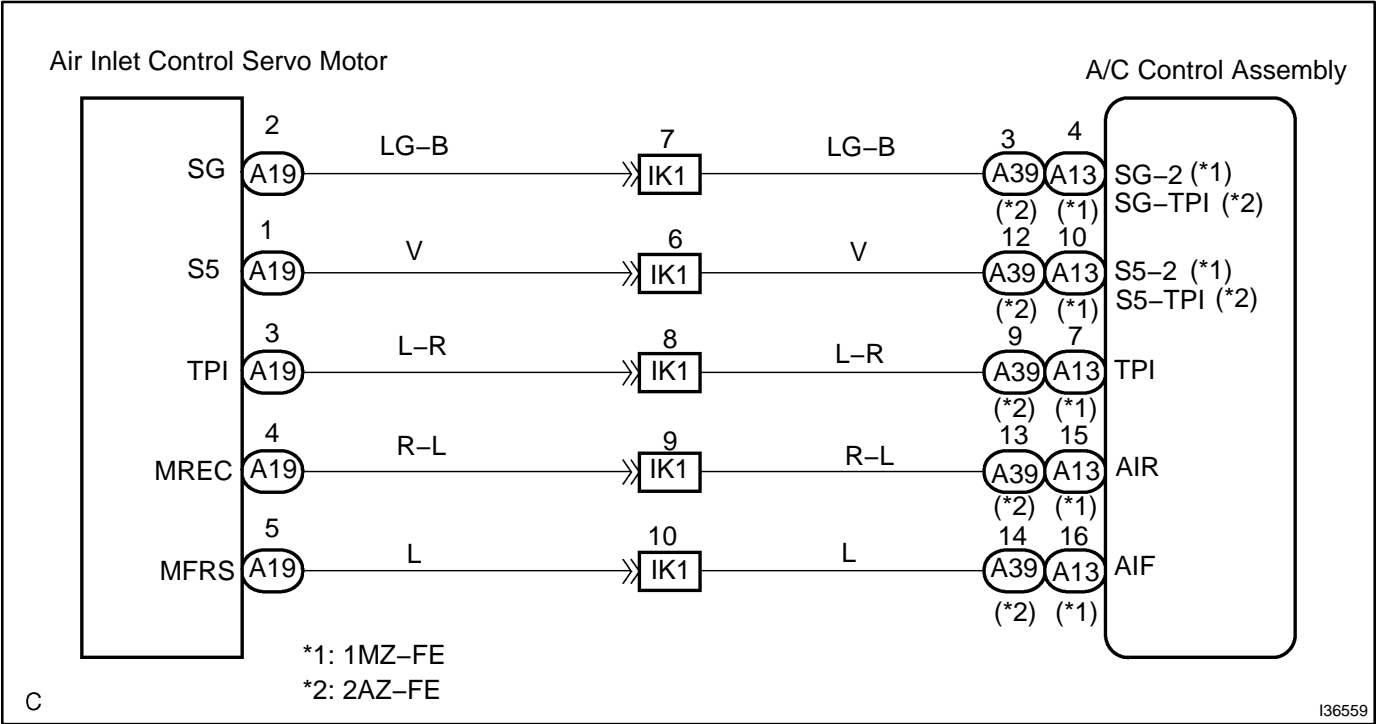
CIRCUIT DESCRIPTION



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

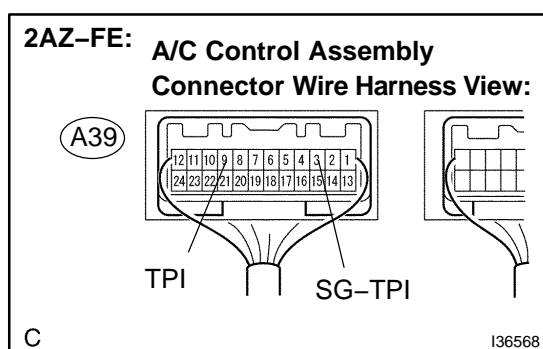
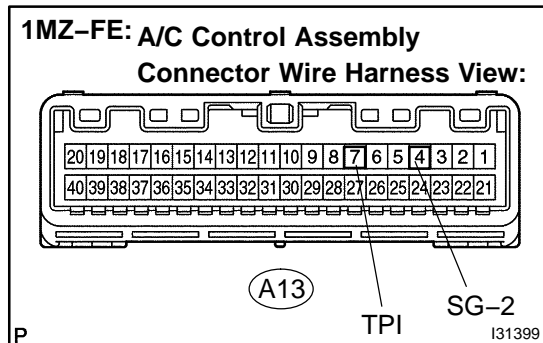
DTC No.	Detection Item	Trouble Area
32	Open or short in air inlet damper position sensor circuit.	<ul style="list-style-type: none">• Air inlet damper position sensor• Harness or connector between air inlet control servomotor and A/C amplifier• A/C amplifier

WIRING DIAGRAM



INSPECTION PROCEDURE

1 INSPECT HEATER CONTROL HOUSING SUB-ASSY(TPI, SG-2)



- (a) Remove A/C amplifier assy with connectors still connected.
- (b) Turn the ignition switch to the ON position.
- (c) 1MZ-FE:
Measure voltage according to the value(s) in the table below.

Standard:

Terminal No.	Condition	Specified Condition
A13-7 (TPI) – A13-4 (SG-2)	RECIRCULATION	3.5 to 4.5 V
A13-7 (TPI) – A13-4 (SG-2)	FRESH	0.5 to 1.8 V

HINT:

As the recirculation damper servo sub-assy is moved from REC side to FRS side, the voltage decreases gradually without interruption.

- (d) 2AZ-FE:
Measure voltage according to the value(s) in the table below.

Standard:

Terminal No.	Condition	Specified Condition
A39-9 (TPI) – A39-3 (SG-TPI)	RECIRCULATION	3.5 to 4.5 V
A39-9 (TPI) – A39-3 (SG-TPI)	FRESH	0.5 to 1.8 V

HINT:

As the recirculation damper servo sub-assy is moved from REC side to FRS side, the voltage decreases gradually without 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 IN PROBLEM SYMPTOMS TABLE**

C

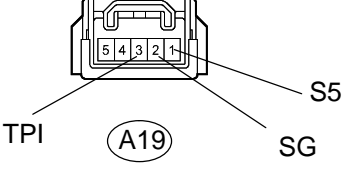
**CHECK AND REPLACE HEATER CONTROL
HOUSING SUB-ASSY**

A

2

INSPECT RECIRCULATION DAMPER SERVO SUB-ASSY

Air Inlet Control Servo Motor
Connector Wire Harness View:



TPI S5 SG

A19

I30157

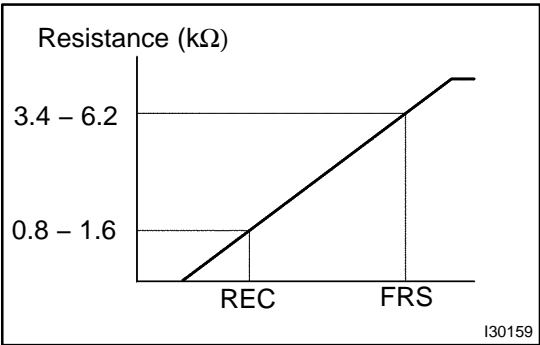
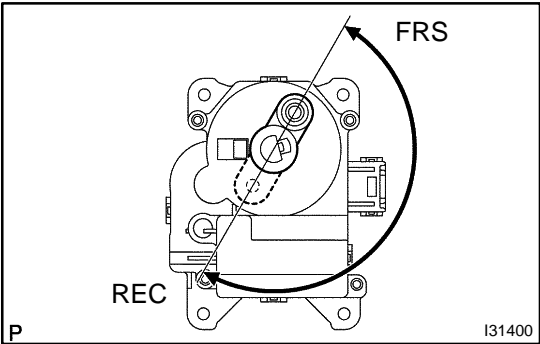
- (a) Remove the recirculation damper servo sub-assy.
- (b) Measure the resistance according to the value(s) in the table below.

Standard:

Terminal No.	Condition	Specified Condition
A19-1 (S5) - A19-2 (SG)	Always	4.2 to 7.8 kΩ
A19-1 (S5) - A19-3 (TPI)	FRESH	3.4 to 6.2 kΩ
A19-1 (S5) - A19-3 (TPI)	RECIRCULATION	0.8 to 1.6 kΩ

HINT:

As the recirculation damper servo sub-assy moves from cool side to warm side, the resistance decreases gradually without interruption.



NG

REPLACE RECIRCULATION DAMPER SERVO SUB-ASSY

OK

3

CHECK HARNESS AND CONNECTOR(AIR INLET DAMPER POSITION SENSOR - HEATER CONTROL HOUSING SUB-ASSY)

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

CHECK AND REPLACE HEATER CONTROL HOUSING SUB-ASSY