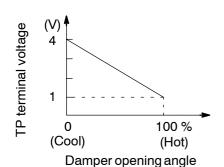
DIAR4-01

DTC	31, 41	Front Air Mix Damper Position Sensor Circuit
	51, 41	

CIRCUIT DESCRIPTION

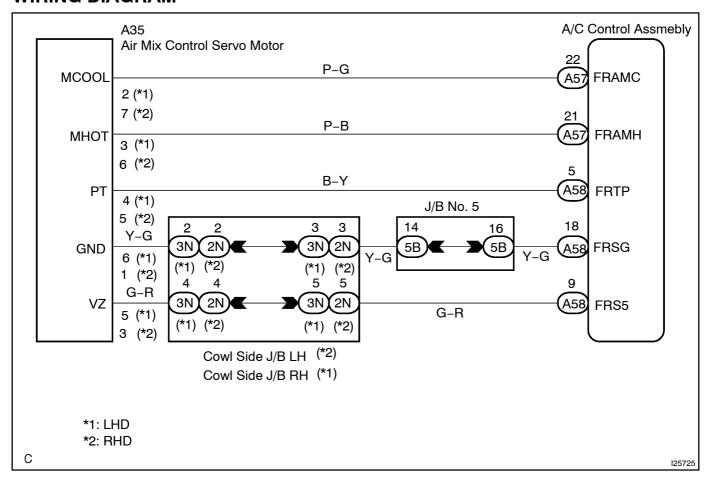


This sensor detects the position of the front air mix damper and sends the appropriate signals to the A/C amplifier.

The position sensor is built into the front air mix servomotor.

DTC No.	Detection Item	Trouble Area
31	Short to ground or to power source circuit in front air mix damper position sensor circuit	Front air mix damper position sensor Harness or connector between front air mix damper position sensor and A/C amplifier
41	Front air mix damper position sensor value does not change even if A/C amplifier operates front air mix damper control servomotor	

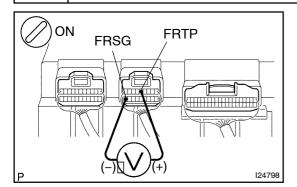
WIRING DIAGRAM



INSPECTION PROCEDURE

1[]

Check[voltage[between[terminals[FRTP[and[FRSG[of[A/C[amplifier[connector.



PREPARATION:

Remove A/C amplifier with connectors still connected.

CHECK:

- (a) Turn ignition switch to ON.
- (b) Change the set temperature to activate the front air mix servomotor, and measure the voltage between terminals FRTP and FRSG of A/C amplifier connector every time the set temperature is changed.

OK:

Set[Temperature	Voltage
Max.[¢ool	3.5 -[4 .5[] /
Max.[hot	0.5 -[].5[]V

HINT:

As[the[set[lemperature[increases,[the[voltage[decreases.

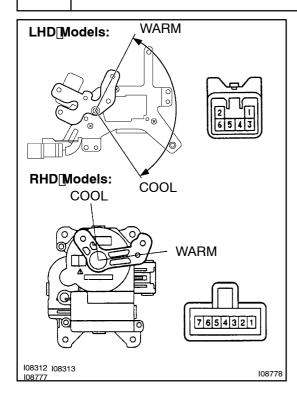




Proceed onexto inspection hown on problem symptoms of able see page 1-1238). However, if DTC 31 or 41 is displayed, check and replace A/C amplifier.

2∏

Check front air mix damper position sensor.



PREPARATION:

Remove front air mix servomotor.

CHECK:

Measure resistance between terminals 475 and 671 for the air mix damper control servomotor connector.

(□):□RHD□Models

OK:

Resistance $\boxed{4.2}$ - $\boxed{7.8}$ k Ω

CHECK:

While operating front air inix servomotor, follow the procedure on[page[DI-1279[and[measure[resistance[between[]erminals 4[[5][and[6[[1]][pf[]]ront[air[]]nix[]damper[control[servomotor[connector.

(□):□RHD□Models

OK:

Position	Resistance
Max.[COOL	3.6 –[\$.8[肽[]]
Max.[]WARM	0.5 –[].1[k[2]

HINT:

As[the[front]air[mix[servomotor[moves[from[cool[side]to]warm] side, The Tresistance decreases.

NG□

Replace front air mix servomotor.

OK

3∏ Check harness and connector between front air mix damper position sensor and A/Camplifier (See page N-38).

NG

Repair or replace harness or connector.

OK

Check and replace A/C amplifier.