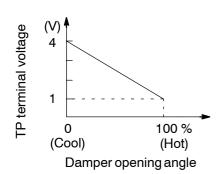
DIARG_0

DTC 37, 47 Rear Air Mix Damper Position Sensor Circuit

CIRCUIT DESCRIPTION

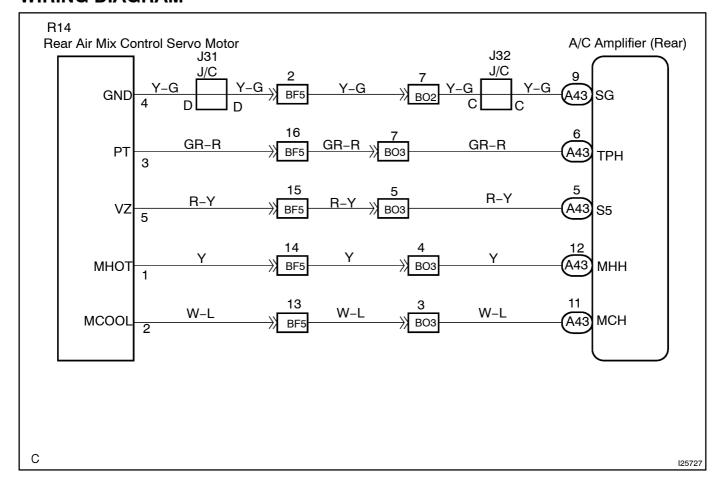


This sensor detects the position of the rear air mix damper and sends the appropriate signals to the rear A/C amplifier.

The position sensor is built into the rear air mix damper control servomotor.

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

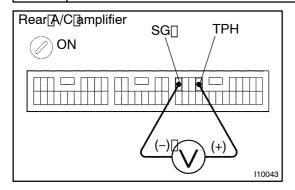
WIRING DIAGRAM



INSPECTION PROCEDURE

1[]

Check[voltage[between[terminals[TPH]and[\$G[of[rear]A/C[amplifier.



PREPARATION:

Remove rear A/C amplifier with connectors still connected.

CHECK:

- (a) Turn ignition switch to ON.
- (b) Change the set temperature to activate the rear air mix servomotor, and measure the voltage between terminals TPH and SG of rear A/C amplifier connector each time when the set temperature shanged.

OK:

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

HINT:

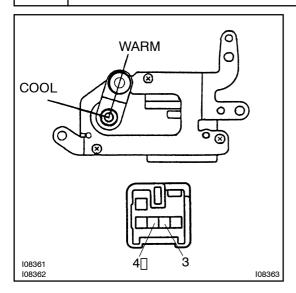
As[the[set[lemperature[increases,[the[voltage[decreases.





Proceed@omext@ircuit@nspectionshownonproblemsymptoms@able@seepageDI-1238). However, if DTC 37 or 47 is displayed, check and replace rear A/C amplifier.

2 Check[rear[air[mix[damper[position[sensor.



PREPARATION:

Remove rear air mix servomotor.

CHECK:

Measure desistance between derminals 3 and 4 of dear air mix damper control servomotor connector.

OK:

Resistance [4.2 - 7.8]k Ω

CHECK:

 $While \cite{linear} per \cite{linear} in \cite{linear}$

OK:

Position	Resistance
Max.[COOL	3.6 –[6.8[k[2]
Max.[WARM	0.5 –∏ .1[k[2]

HINT:

As[]the[]tear[air[]mix[servomotor[]moves[]from[]cool[side[]to[]warm side,[]the[]tesistance[]decreases.

NG

Replace rear air mix servomotor assembly.

ОК

3∏

Check[harness[and]connector[between]rear[air[mix[damper[position]sensor[and rear[A/C[amplifier[See[page[N-38].

NG

Repair or replace harness or connector.

OK

Check and replace A/C amplifier.