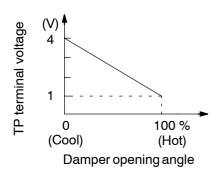
DI3D6-02

DTC	RrDEF, REC	Front Air Mix Damper Position Sensor Circuit
-----	------------	--

Circuit	DTC		Front Air Mix Damper Position Sensor Circuit
---------	-----	--	--

# **CIRCUIT DESCRIPTION**

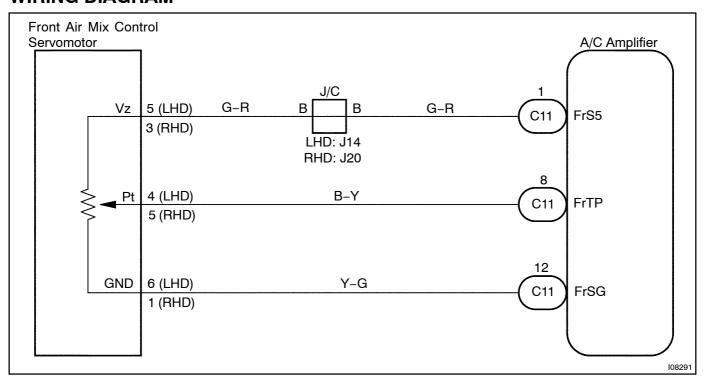


This sensor detects the position of the air mix damper and sends the appropriate signals to the A/C amplifier.

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

Blinking light	Detection Item	Trouble Area
RrDEF REC	Short to ground or power source circuit in front air mix damper position sensor circuit.	<ul> <li>Front air mix damper position sensor.</li> <li>Harness or connector between front air mix damper control servomotor assembly and A/C amplifier.</li> <li>A/C amplifier.</li> </ul>
RrDEF M1	Front air mix damper position sensor value does not change even if A/C amplifier operates front air mix damper control servomotor.	

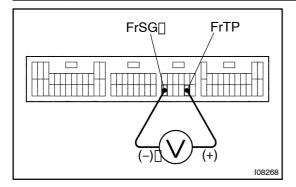
# **WIRING DIAGRAM**



# 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 ON.
- (b) Change the settemperature to activate the front air mix damper controls ervomotor, and measure the voltage between tween terminals FrTP and FrSG of A/C amplifier connector each time when the settemperature is changed.

# OK:

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

#### HINT:

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

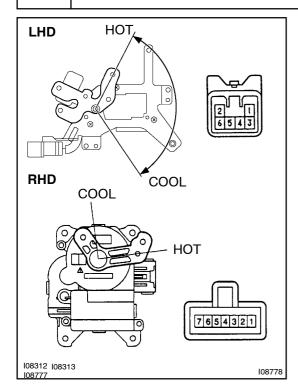




Proceed@pipext@ircuit@nspection@shown@nproblem@symptoms@able@seepagepl-859).[However, if RrDEF and REC or RrDEF and M1 is light up, check and replace A/C amplifier.

2□

# Check front air mix damper position sensor.



#### PREPARATION:

- (a) Remove heater unit.
- (b) Disconnect[front[air[mix[damper[control[servomotor[as-sembly[connector.]

### **CHECK:**

Measure  $\P$  esistance  $\P$  etween  $\P$  erwinals  $\P$  (5)  $\P$  and  $\P$  (1)  $\P$  front  $\P$  ir mix  $\P$  amper  $\P$  ontrol  $\P$  ervomotor  $\P$  assembly  $\P$  onnector.

(□):□RHD

OK:

Resistance [4.2 - 7.8] k $\Omega$ 

### **CHECK:**

While operating front air mix damper control servomotor, following the procedure, measure resistance between terminals 4(5) and 6(1) of front air mix damper control servomotor assembly connector.

([]):[RHD

## OK:

Position	Resistance
Max.ଢ଼ool	3.6 −(6.8[]≰[]
Max.[hot	0.5 –∏ .1[k[2]

#### HINT:

Asthetentairtinixdampercontrolservomotortenovestemcoolsidetolhotside,thetesistancedecreases.



OK

3

Check harness and connector between A/C amplifier and front air mix damper control[servomotor[assembly[(See[page[]N-35))].

NG

Repair or replace harness or connector.

OK

Check and replace A/C amplifier.