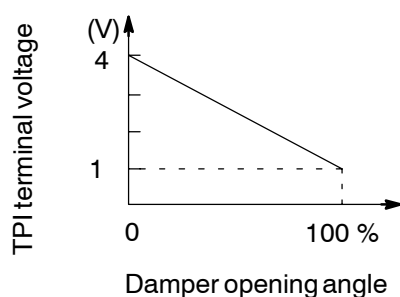


| | | |
|------------|------------------|---|
| DTC | RrDEF, LO | Air Inlet Damper Position Sensor Circuit |
|------------|------------------|---|

| | | |
|------------|------------------|---|
| DTC | RrDEF, M2 | Air Inlet Damper Position Sensor Circuit |
|------------|------------------|---|

| | | |
|------------|---------------|---|
| DTC | 32, 42 | Air Inlet Damper Position Sensor Circuit |
|------------|---------------|---|

CIRCUIT DESCRIPTION

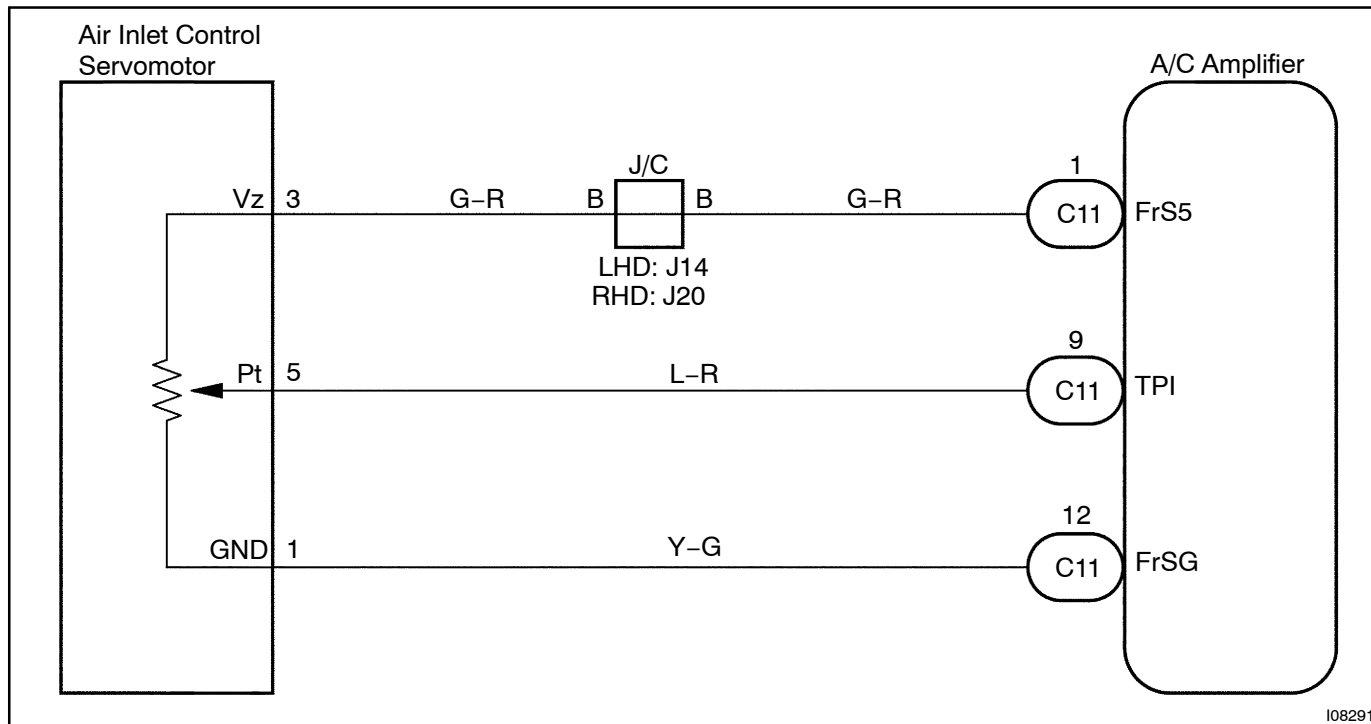


This sensor detects the position of the air inlet damper and sends the appropriate signals to the A/C amplifier.

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

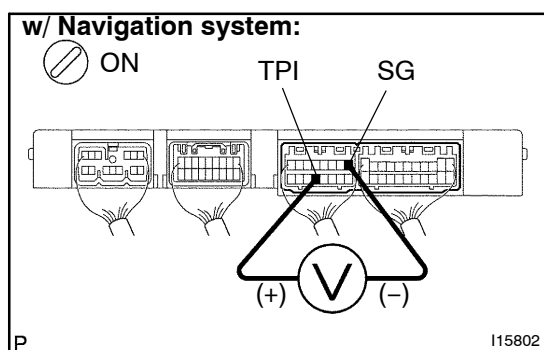
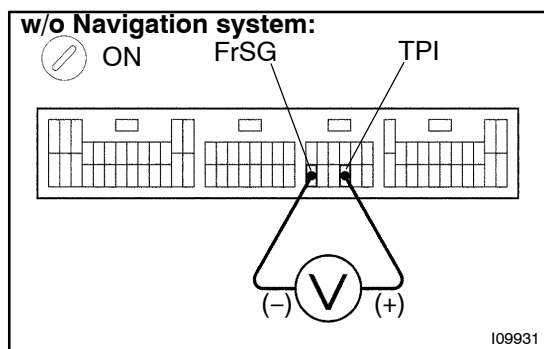
| Blinking light | Detection Item | Trouble Area |
|----------------|--|---|
| RrDEF LO | Short to ground or power source circuit in air inlet damper position sensor circuit. | <ul style="list-style-type: none"> • Air inlet damper position sensor • Harness or connector between air inlet damper control servomotor assembly and A/C amplifier • A/C amplifier |
| RrDEF M2 | Air inlet damper position sensor value does not change even if A/C amplifier operates air inlet damper control servomotor. | |
| DTC No. | Detection Item | Trouble Area |
| 32 | Short to ground or power source circuit in air inlet damper position sensor circuit. | <ul style="list-style-type: none"> • Air inlet damper position sensor • Harness or connector between air inlet damper control servomotor assembly and A/C amplifier • A/C amplifier. |
| 42 | Air inlet damper position sensor value does not change even if A/C amplifier operates air inlet damper control servomotor. | |

WIRING DIAGRAM



INSPECTION PROCEDURE

- 1 Check voltage between terminals TPI and FrSG (or SG) of A/C amplifier connector.



PREPARATION:

Remove A/C amplifier with connectors still connected.

CHECK:

- Turn ignition switch to ON.
- Press REC/FRS switch to change air inlet between fresh and recirculation air, and measure voltage between terminals TPI and FrSG (or SG) of A/C amplifier when the air inlet damper control servomotor operates.

OK:

| FRS-REC Switch | Voltage |
|----------------|-------------|
| REC | 3.5 - 4.5 V |
| FRS | 0.5 - 1.5 V |

HINT:

As the air inlet damper control servomotor is moved from REC side to FRS side, the voltage decreases.

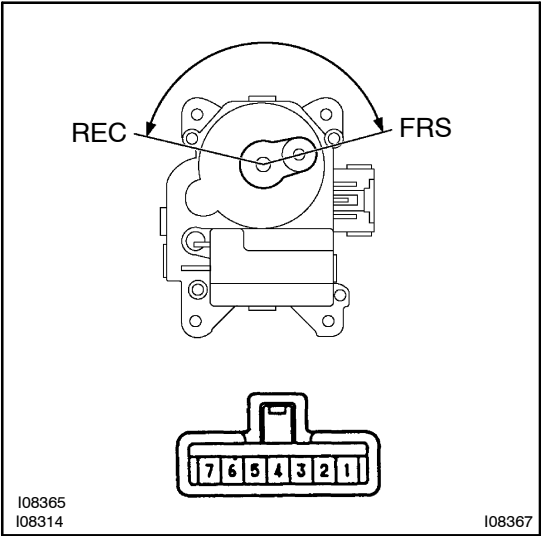
NG

Go to step 2

OK

Proceed to next circuit inspection shown on problem symptoms table (See page DI-130). However, if RrDEF and LO or RrDEF and M2 indicators light up (or DTC 32 or 42 is displayed), check and replace A/C amplifier.

2 Check air inlet damper position sensor.



PREPARATION:

Remove air inlet servomotor.

CHECK:

Measure resistance between terminals 1 and 5 of air inlet damper control servomotor assembly connector.

OK:

Resistance 4.2 – 7.8 kΩ

CHECK:

While operating air inlet damper control servomotor, following the procedure on page DI-177, measure resistance between terminals 1 and 5 of air inlet damper control servomotor assembly connector.

OK:

Resistance

| Damper Position | Resistance |
|-----------------|--------------|
| REC side | 3.1 – 5.8 kΩ |
| FRS side | 0.8 – 1.6 kΩ |

HINT:

As the air inlet damper control servomotor moves from REC side to FRS side, the resistance decreases.

NG

Replace air inlet damper control servomotor assembly.

OK

3

Check harness and connectors between A/C amplifier and air inlet damper control servomotor assembly ([See page IN-34](#)).

NG

Repair or replace harness or connector.

OK

Check and replace A/C amplifier.