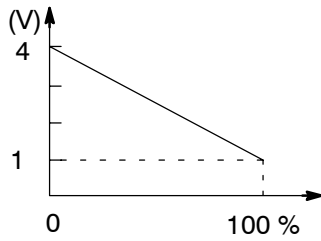


| | | |
|------------|--------------|---|
| DTC | B1432 | Air Inlet Damper Position Sensor Circuit |
|------------|--------------|---|

CIRCUIT DESCRIPTION

TPI terminal voltage

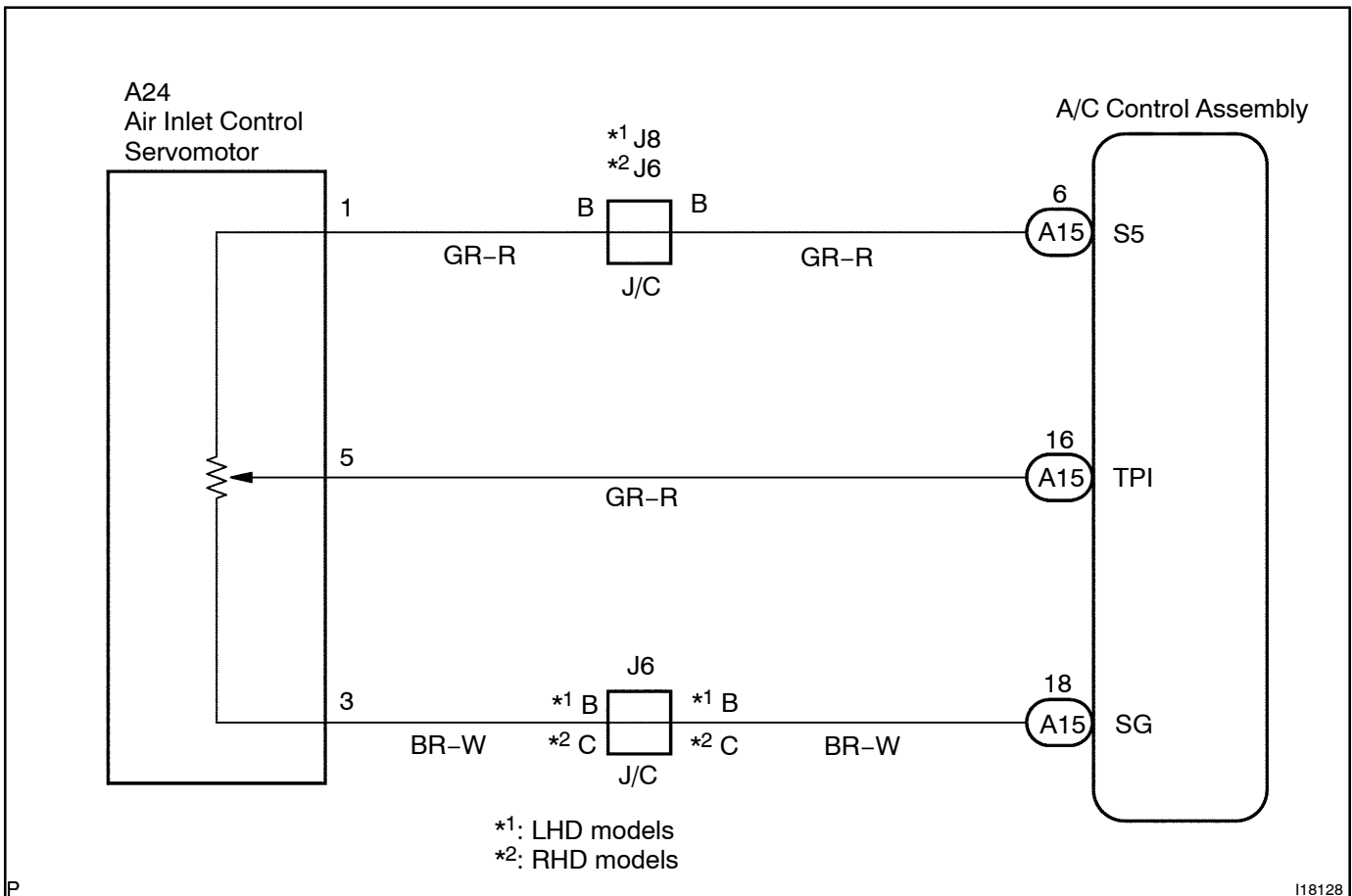


Damper opening angle

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

| DTC No. | Detection Item | Trouble Area |
|---------|--|---|
| B1432 | 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 control assembly. A/C control assembly. |

WIRING DIAGRAM



INSPECTION PROCEDURE

HINT:

In case of using the hand-held tester, start the inspection from step 1 and in case of not using the hand-held tester, start from step 2.

| | |
|----------|--|
| 1 | Check air inlet damper position using hand-held tester. |
|----------|--|

PREPARATION:

Connect the hand-held tester to the DLC3.

CHECK:

Check the current position of air inlet damper and the target position of air inlet damper.

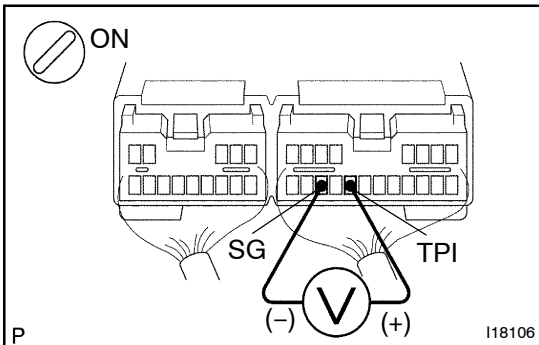
OK:

The current position and target position are almost similar.

| | |
|-----------|--|
| OK | Check and replace A/C control assembly. |
|-----------|--|

| |
|-----------|
| NG |
|-----------|

| | |
|----------|--|
| 2 | Check voltage between terminals TPI and SG of A/C control assembly connector. |
|----------|--|



PREPARATION:

Remove A/C control assembly with connectors still connected.

CHECK:

- (a) Turn ignition switch ON.
- (b) Press REC/FRS switch to change air inlet between fresh and recirculation air, and measure voltage between terminals TPI and SG of A/C control assembly 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:

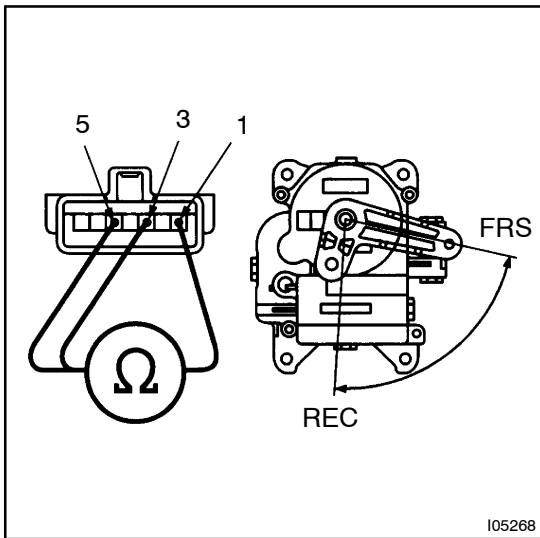
As the air inlet damper control servomotor is moved from REC side to FRS side, the voltage decreases.

| | |
|-----------|----------------------|
| NG | Go to step 3. |
|-----------|----------------------|

| |
|-----------|
| OK |
|-----------|

Proceed to next circuit inspection shown on problem symptoms table (See page DI-59). However, if DTC B1432/32 is displayed, check and replace A/C control assembly.

3 Check air inlet damper position sensor.



PREPARATION:

Remove the air inlet damper control servomotor.

CHECK:

Measure resistance between terminals 1 and 3 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-82, measure resistance between terminals 1 and 3 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

4 Check harness and connectors between A/C control assembly and air inlet damper control servomotor assembly (See page IN-31).

NG

Repair or replace harness or connector.

OK

Check and replace A/C control assembly.