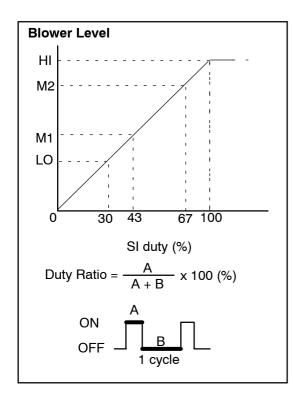
BLOWER MOTOR CIRCUIT



CIRCUIT DESCRIPTION

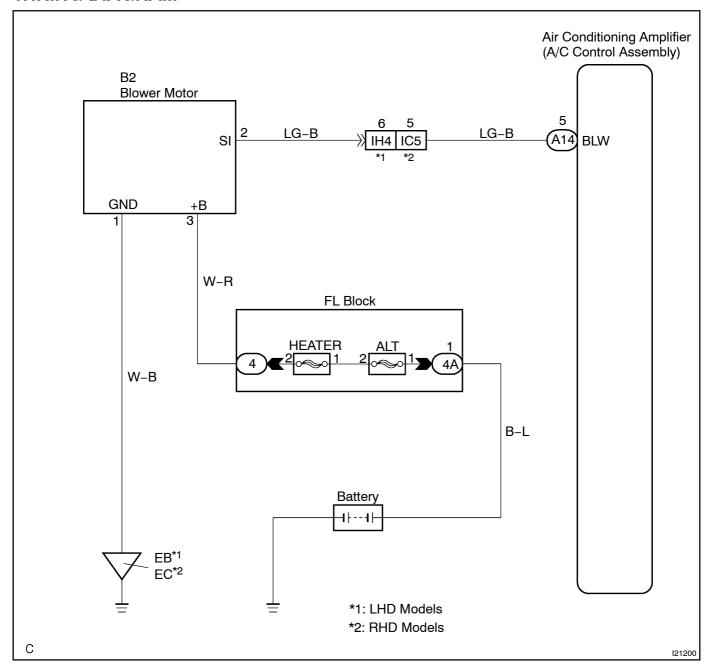
The blower motor is operated by signals from the A/C amplifier assy. Blower motor speed signals are transmitted by changes in the duty ratio.

Duty Ratio

The duty ratio is the ratio of the period of continuity in one cycle. For example, if A is the period of continuity in one cycle, B is the period of non–continuity.

The blower motor controller controls the blower motor speed.

WIRING DIAGRAM



INSPECTION PROCEDURE

1 | READ[VALUE[ON[INTELLIGENT[TESTER[II

- (a) Connect the intelligent tester to the CDLC3.
- (b) Turn the ignition witch to the ON position and push the intelligent tester imain witch on.
- (c) Select the litem below in the DATA LIST, and read the display on the intelligent tester II.

DATA LIST AIR CONDITIONER:

| Item | Measure⊡tem/Display (Range) | Normal [Condition | Diagnostic∏Note |
|--|--|--|-----------------|
| Blower@notor[speed@evel (Blower@evel) | Blower@notor[\$peed@evel[/ min.:[0]]evel@nax.:[31]]evel | Increases[in]the[jange[between[b] and[31]as[the[speed[increase | - |

OK:

The display is as specified in the hormal condition.



REPLACE[AIR[CONDITIONING[AMPLIFIER (SEE[PAGE[\$5-15])

ОК

2 PERFORM ACTUATOR CHECK

- (a) Set[] he[actuator[check[mode[] see[page[] 5-774]).
- (b) Press[the[blower[switch[to]set[the[step[operation.
- (c) Check the air flow evel by thand.

| Display[Code | Blower[]evel |
|--------------|--------------|
| 0 | 0 |
| 1 | 1 |
| 2 | 14 |
| 3 | 14 |
| 4 | 14 |
| 5 | 14 |
| 6 | 14 |
| 7 | 14 |
| 8 | 14 |
| 9 | 31 |

OK:

Blower[level[changes[in[accordance[with[each[display[code.

NG Go to step 2

OK

PROCEED[TO[NEXT[CIRCUIT[INSPECTION[\$HOWN[IN[PROBLEM[\$YMPTOMS[TABLE (SEE[PAGE[\$5-16])

3 INSPECT RADIO AND RECEIVER ASSY

- (a) Turn the ignition switch to the ON position.
- (b) Turn the radio and receiver assy on.
- (c) Set the radio channels and register them.
- (d) Turn the ignition switch off.
- (e) Turn the ignition switch to the ON position.
- (f) Turn the radio and receiver assy on.
- (g) Check if the registered memory is deleted or not.

OK

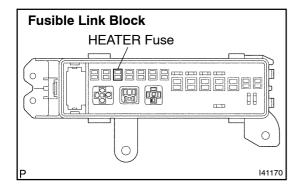
The registered memory is not deleted.

NG `

REPAIR OR REPLACE HARNESS OR CONNECTOR (DRIVER SIDE J/B - BATTERY)

OK

4 INSPECT FUSE(HEATER)



- (a) Remove the HEATER fuse from the FL block.
- (b) Measure the resistance according to the value(s) in the table below.

Standard:

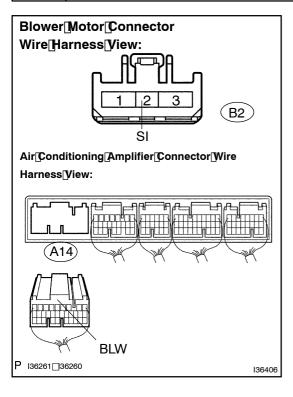
| Tester item | Condition | Specified condition |
|-------------|-----------|---------------------|
| HEATER fuse | Always | Below 1 Ω |

NG \

CHECK FOR SHORT IN ALL HARNESSES AND COMPONENTS CONNECTED TO FAILURE FUSE

OK

5 CHECK[HARNESS[AND]CONNECTOR(BLOWER]MOTOR - [AIR]CONDITIONING AMPLIFIER)[[SEE]PAGE[01-44)



(a) Measure[the[resistance[according[to[the[yalue(s)[in[the table[below.

Standard:

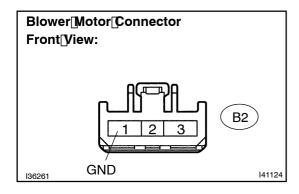
| Tester[connection | Condition | Specified@ondition |
|------------------------------|-----------|--------------------|
| A14-5[[BLW) - B2-2[[SI) | Always | Below[] [Ω |
| A14–5[[BLW) – Body[ground | Always | 10[ktttp:[higher |

NG REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

6∏

CHECK[HARNESS[AND[CONNECTOR(BLOWER[MOTOR - [BODY[GROUND) (SEE[PAGE[01-4]4)



(a) Measure the resistance according to the value(s) in the table below.

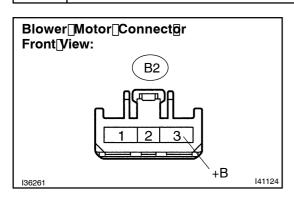
Standard:

| Tester connection | Condition | Specified condition |
|-----------------------------|-----------|---------------------|
| B2-1 (GND) - Body ground | Always | Below 1 Ω |

NG REPAIR OR REPLACE HARNESS OR CONNECTOR

ОК

7 CHECK[HARNESS[AND[CONNECTOR[(BLOWER[MOTOR - [BATTERY) (SEE[PAGE[01-44)



- (a) Remove the blower motor.
- (b) Measure the voltage according to the value(s) in the table below.

Standard:

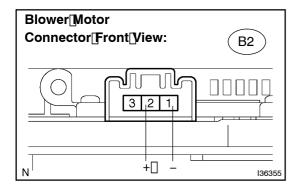
| Tester connection | Condition | Specified condition |
|-------------------------|-----------|---------------------|
| B2-3 (+B) - Body ground | Always | 10 to 14 V |

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

8 INSPECT BLOWER MOTOR



- (a) Remove the blower motor.
- (b) Connect positive (+) lead to terminal 2 of the blower motor connector and negative (-) lead to terminal 1.

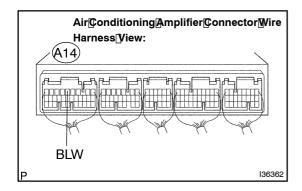
OK: Blower motor operates smoothly.

NG

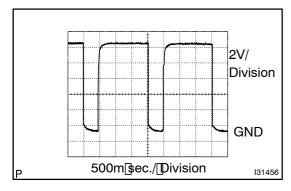
REPLACE BLOWER MOTOR



9 INSPECT AIR CONDITIONING AMPLIFIER (BLW - BODY GROUND)



- (a) Remove the A/Camplifier with connectors still connected.
- (b) Turn the ignition witch to the ON position.
- (c) Turn he blower witch on Lo).



(d) Measure[the[waveform[between[terminal]]] LW[A14-5] of the A/C amplifier and body ground.

OK:

Waveform operate as shown in the illustration.

HINT:

Waveform[varies[with[]]the[]blower[]evel.



OK

PROCEED[TO[NEXT[CIRCUIT]]NSPECTION[\$HOWN]]N[PROBLEM[\$YMPTOMS[TABLE (SEE[PAGE[05-778)]