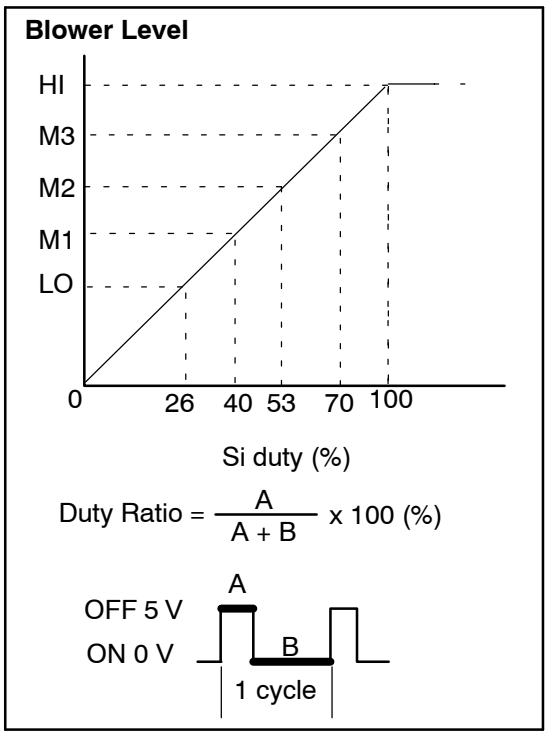
BLOWER MOTOR CIRCUIT



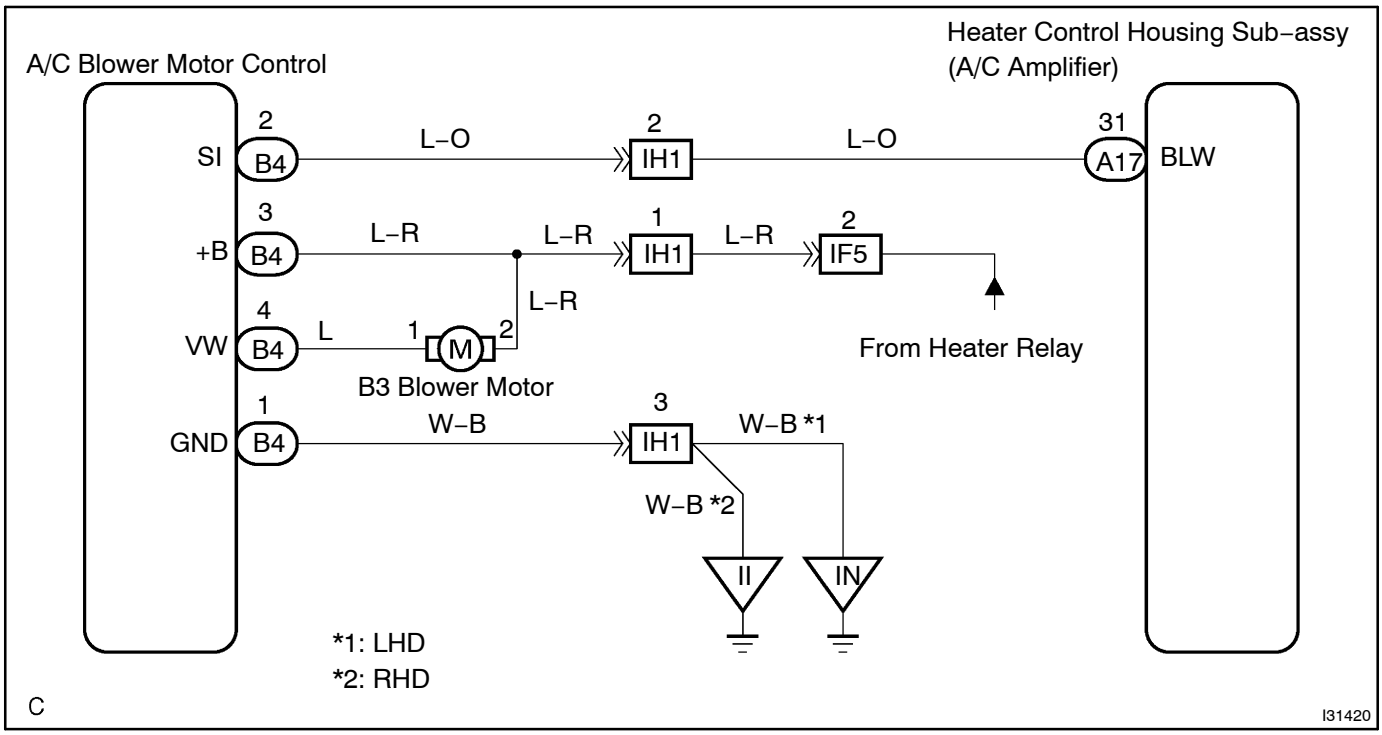
CIRCUIT DESCRIPTION

The blower motor is operated by signals from the A/C amplifier. 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, and B is the period of non–continuity, then.

WIRING DIAGRAM



INSPECTION PROCEDURE

1 CHECK ACTUATOR

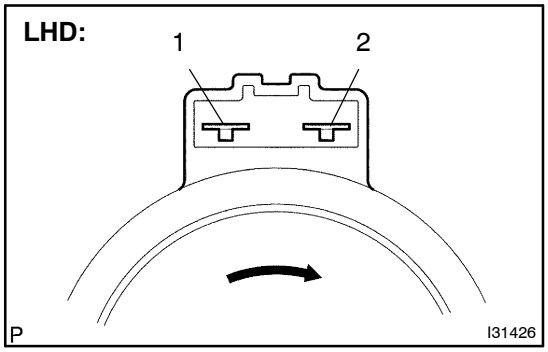
(a) Set to actuator check mode (See page 05–687).
(b) Press the blower switch and change to step operation.
(c) Check the air flow level by hand.

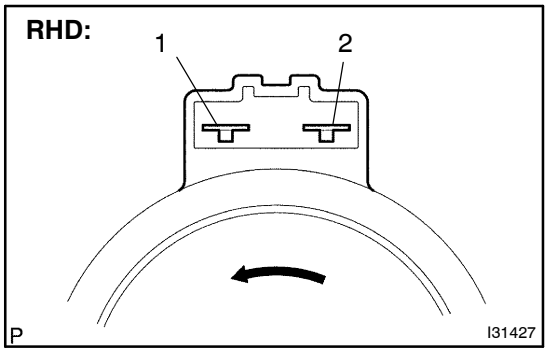
Display Code	Blower level
0	0
1	1
2	14
3	14
4	14
5	14
6	14
7	14
8	14
9	31

OK → **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN ON PROBLEM SYMPTOM TABLE**

NG

2 INSPECT BLOWER W/FAN MOTOR SUB–ASSY





(a) Remove blower motor.
(b) Connect the positive (+) lead from the battery to terminal 2 and negative (–) lead to terminal 1.
Standard: Blower motor operates smoothly.

NG → **REPLACE BLOWER W/FAN MOTOR SUB–ASSY**

OK

3	CHECK HARNESS AND CONNECTOR(BETWEEN BLOWER MOTOR AND BLOWER MOTOR CONTROL)

NG → REPAIR OR REPLACE HARNESS OR CONNECTOR

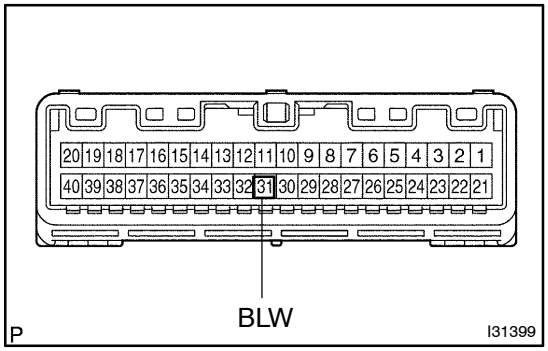
OK

4	CHECK HARNESS AND CONNECTOR(BETWEEN BLOWER MOTOR CONTROL AND BODY GROUND)

NG → REPAIR OR REPLACE HARNESS OR CONNECTOR

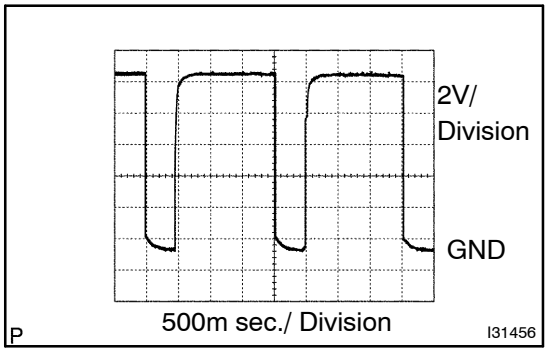
OK

5	INSPECT HEATER CONTROL HOUSING SUB–ASSY(BLW)



(a) Remove A/C amplifier with connectors still connected.
(b) Ignition switch ON.
(c) Blower switch ON.
(d) Measure waveform between terminal BLW of A/C amplifier and body ground.
OK: Pulse generation

HINT:
- The correct waveform is as shown.
- Blower level changes waveform.



NG → CHECK AND REPLACE HEATER CONTROL HOUSING SUB–ASSY

OK

6	CHECK HARNESS OR CONNECTOR(BETWEEN HEATER CONTROL HAUSING AND BLOWER MOTOR CONTROL)

NG → REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

REPLACE BLOWER MOTOR CONTROL