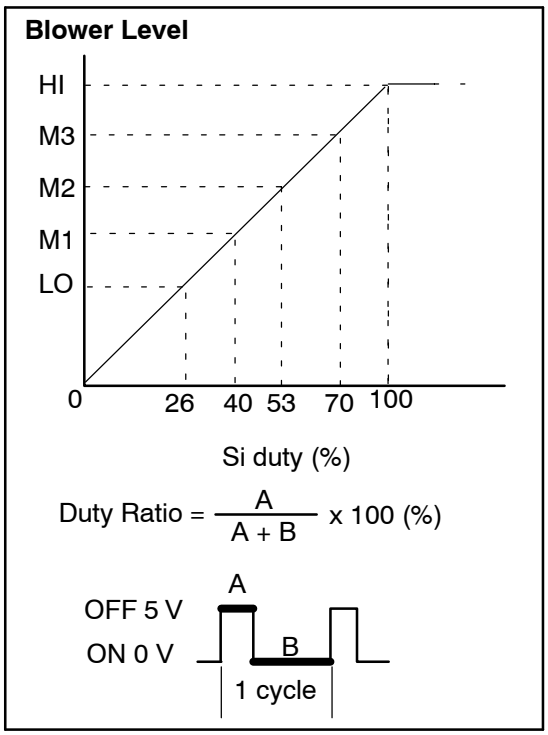
BLOWER MOTOR CIRCUIT



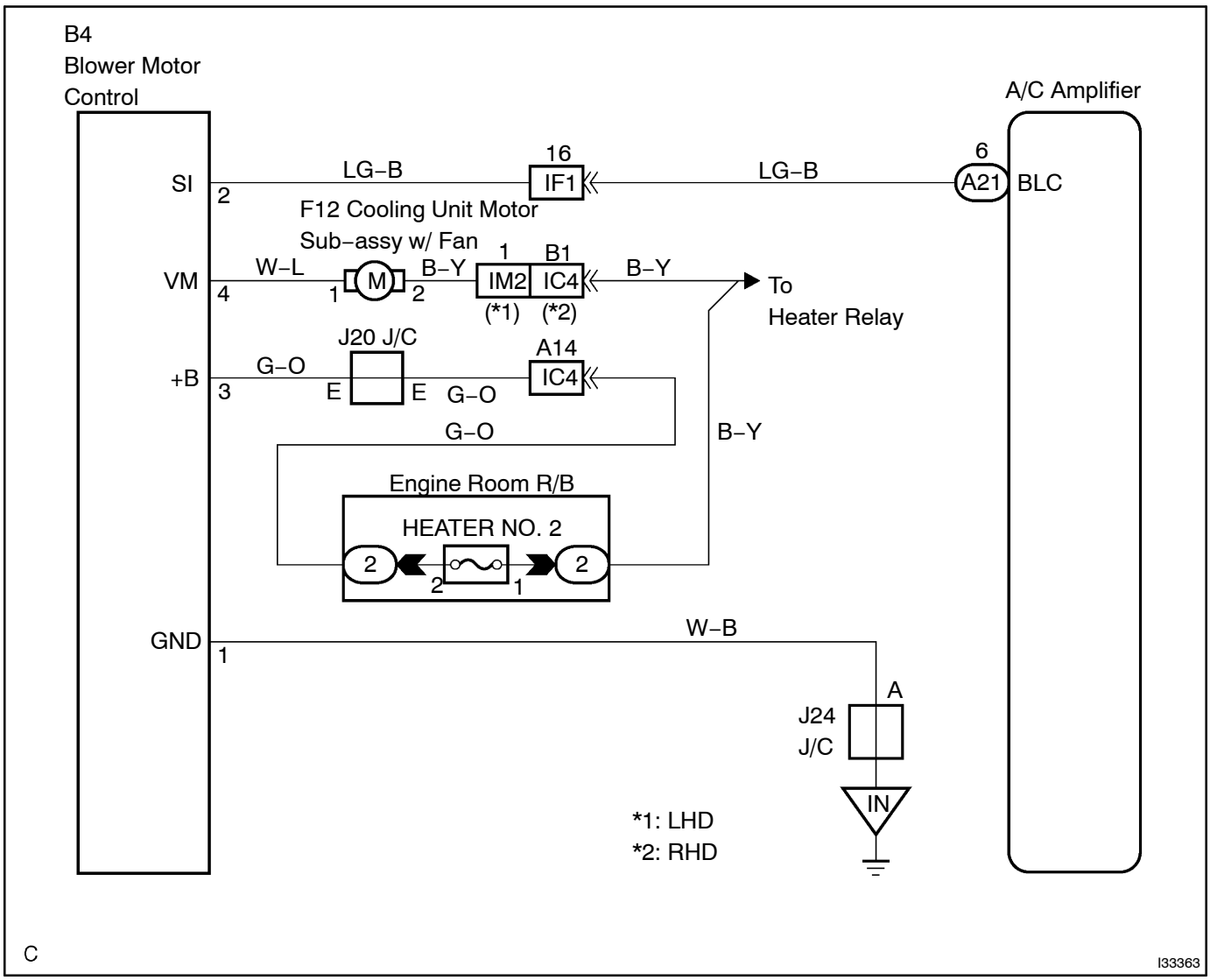
CIRCUIT DESCRIPTION

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 then B is the period of non–continuity.

WIRING DIAGRAM



INSPECTION PROCEDURE

1	PERFORM ACTUATOR CHECK

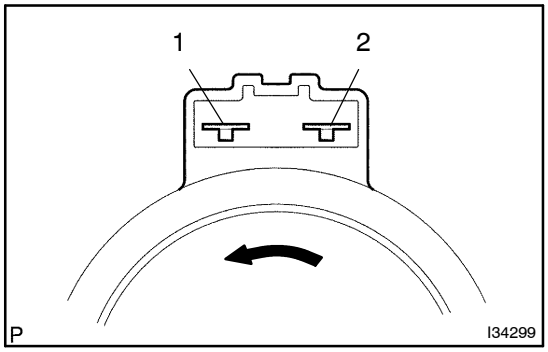
(a) Set to actuator check mode (See page 05–1023).
(b) Press the blower switch and change to step operation.
(c) Check the air flow level by hand.

Display Code	Blower level
0	0
1	1
2	17
3	↑
4	↑
5	↑
6	↑
7	↑
8	↑
9	31

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

NG

2	INSPECT COOLING UNIT MOTOR SUB–ASSY W/FAN



(a) Remove cooling unit motor sub–assy w/ fan.
(b) Connect positive (+) lead from the battery to terminal 2 and negative (–) lead to terminal 1.
Standard: Blower motor operates smoothly.

NG → **REPLACE COOLING UNIT MOTOR SUB–ASSY W/FAN**

OK

3	CHECK HARNESS AND CONNECTOR(COOLING UNIT MOTOR SUB–ASSY W/ FAN – BLOWER MOTOR CONTROL)

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

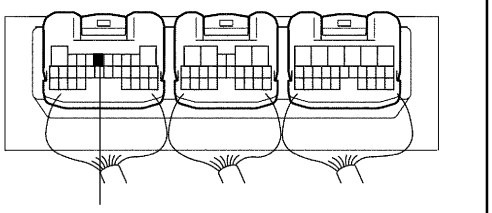
OK

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

NG → REPAIR OR REPLACE HARNESS OR CONNECTOR

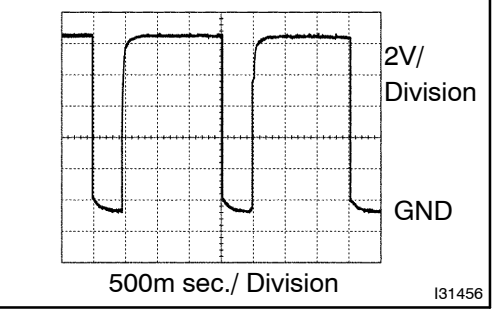
OK

5	INSPECT AIR CONDITIONING AMPLIFIER(BLC)



(a) Remove A/C amplifier with being connected.
(b) Ignition switch ON.
(c) Blower switch ON.
(d) Measure waveform between terminal BLC 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 AIR CONDITIONING AMPLIFIER

OK

6	CHECK HARNESS OR CONNECTOR(A/C AMPLIFIER – BLOWER MOTOR CONTROL)

NG → REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

REPLACE BLOWER MOTOR CONTROL