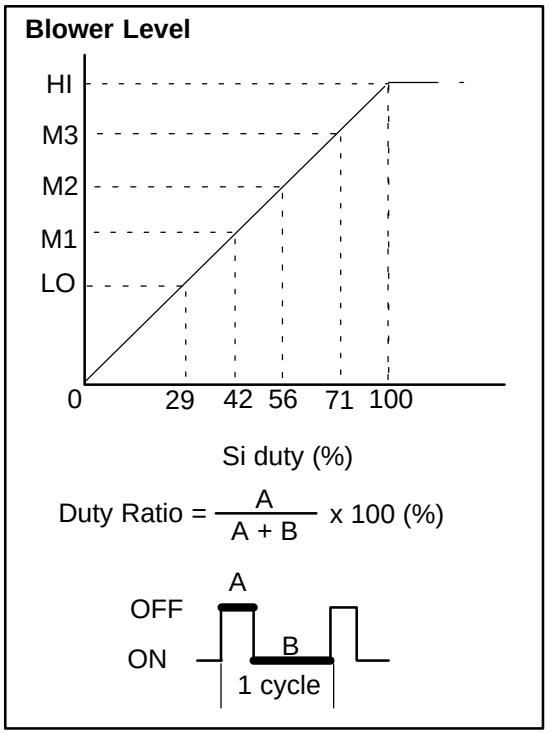
BLOWER MOTOR CIRCUIT



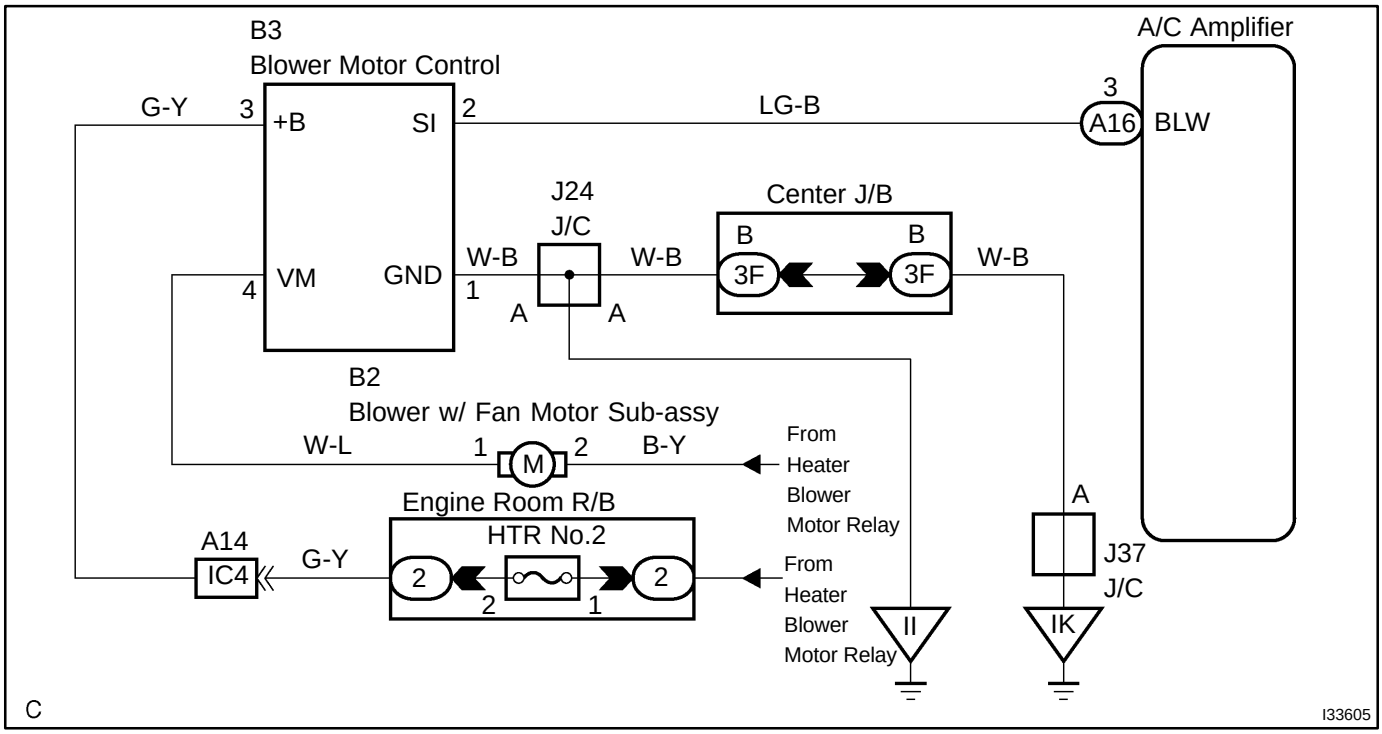
CIRCUIT DESCRIPTION

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	PERFORM ACTUATOR CHECK

(a) Operate A/C control panel to enter the actuator check mode (See page 05-516).
(b) Press the blower switch and change to step operation.
(c) Check the air flow level by hand.

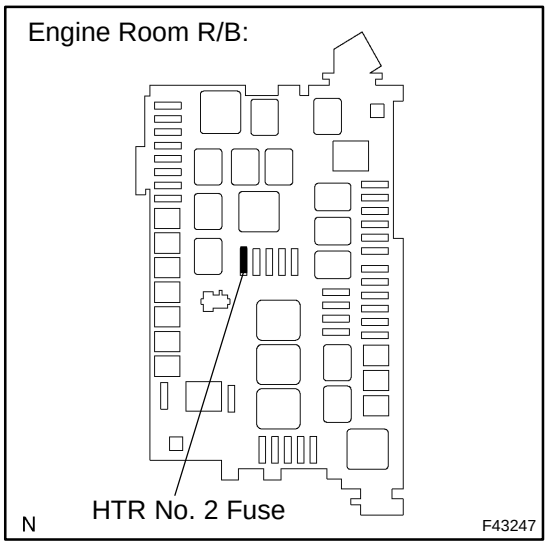
Standard:

Display Code	Blower level
0	0 (No blower)
1	1 (LO)
2	17 (Medium)
3	17 (Medium)
4	17 (Medium)
5	17 (Medium)
6	17 (Medium)
7	17 (Medium)
8	17 (Medium)
9	31 (HI)

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

NG

2	CHECK FUSE(HTR NO.2)

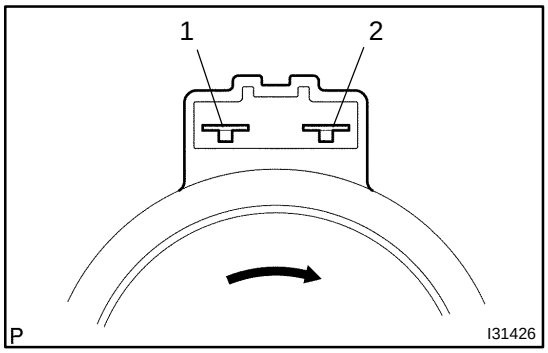


(a) Remove the HTR No. 2 fuse from the engine room R/B.
(b) Check that the continuity exists in the HTR No. 2 fuse.
Standard: Continuity exists.

NG → **REPLACE FUSE**

OK

3	INSPECT BLOWER W/FAN MOTOR SUB-ASSY



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

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

OK

4	CHECK HARNESS AND CONNECTOR(BETWEEN HEATER BLOWER MOTOR RELAY AND BLOWER MOTOR CONTROL)

(a) Check for open and short circuit in the harness and the connector between the blower motor relay and the blower motor control (See page 01-35).

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

OK

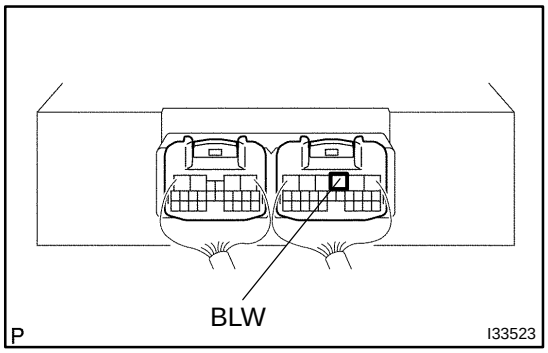
5	CHECK HARNESS AND CONNECTOR(BETWEEN BLOWER MOTOR CONTROL AND BODY GROUND)

(a) Check for open and short circuit in the harness and the connecter between the blower motor control and body ground (See page 01-35).

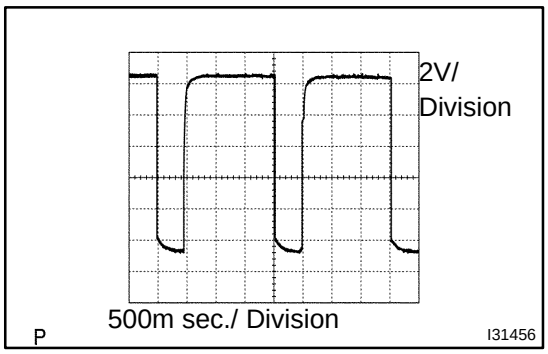
NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

6	INSPECT AIR CONDITIONING AMPLIFIER ASSY(BLW)



(a) Remove the A/C amplifier with the connectors being connected.
(b) Turn the ignition switch to ON.
(c) Set blower speed to LO.
(d) Check the waveform between terminal BLW of the A/C amplifier and body ground.
Standard:
The correct waveform appears as shown in the illustration.



NG → **CHECK AND REPLACE AIR CONDITIONING AMPLIFIER ASSY**

OK

7	CHECK HARNESS OR CONNECTOR(BETWEEN BLOWER MOTOR CONTROL AND AIR CONDITIONING AMPLIFIER)

(a) Check for open and short circuit in the harness and the connecter between the blower motor control and the A/C amplifier (See page 01-35).

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

OK

REPLACE BLOWER MOTOR CONTROL