

Troubleshooting

Symptom Chart

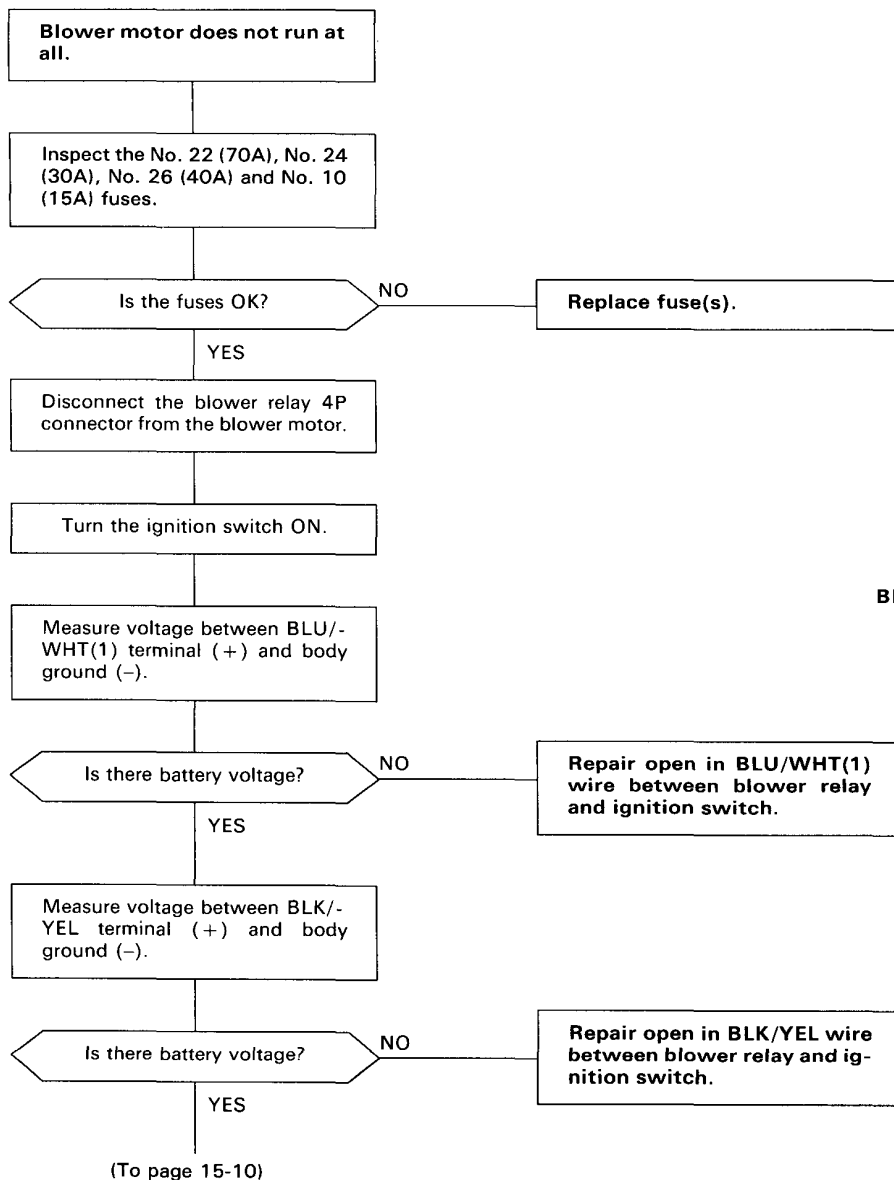
SYMPTOM		REMEDY
No hot air flow	Blower motor does not run	Perform the flowchart (page 15-9)
	Blower motor runs	Check followings: <ul style="list-style-type: none"> • Clogged blower outlet • Clogged heater valve • Faulty air mix door • Out of air mix cable adjustment • Faulty thermostat (section 5)
Hot air flow is low	Blower speed does not change	Perform flow chart (page 15-14)
	Blower runs properly	Check followings: <ul style="list-style-type: none"> • Clogged blower outlet • Incorrect door position
Function does not change	Function control motor does not run	Perform flow chart (page 15-18)
	Function control motor runs	Check for the heater door linkage.
Recirculation door does not change	Recirculation motor does not run	Perform flow chart (page 15-16)
	Recirculation motor run	Check for the door linkage or perform flow chart (page 15-16).

NOTE: Use digital circuit tester (07411—0020000) to check.

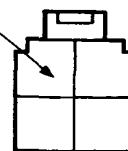


Flow Chart — Blower

NOTE: Use the digital circuit tester (07411—0020000) to check.

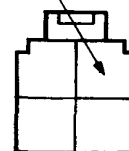


BLU/WHT(1)



View from wire side.

BLK/YEL



View from wire side.

(cont'd)

Troubleshooting

Flow Chart — Blower (cont'd)

(From page 15-9)

Inspection the blower relay (page 15-28).

Is the blower relay OK?

NO

Replace the blower relay and retest.

YES

Reconnect the blower relay, then connect a jumper wire between the BLK terminal and body ground.

Does blower motor run?

YES

Repair open in BLK wire between the blower relay and body ground or poor ground (G401).

NO

Turn the ignition switch OFF.

Disconnect the 2P connector from the blower motor.

Turn the ignition switch ON.

Measure voltage between BLU/-WHT terminal (+) and body ground (-).

Is there battery voltage?

NO

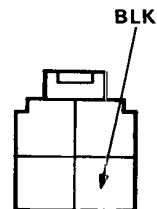
Repair open in BLU/WHT wire between blower motor and blower relay.

YES

Turn the ignition switch OFF.

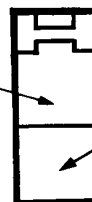
Reconnect the 2P connector to the blower motor.

(To page 15-11)



View from wire side.

LHD: BLU/WHT
(RHD: BLU/BLK)



LHD: BLU/BLK
(RHD: BLU/WHT)

View from wire side.



(From page 15-10)

Connect a jumper wire between the BLU/BLK terminal and body ground. Turn the ignition switch ON.

Does blower motor run?

NO

Replace the blower motor and retest.

YES

Turn the ignition switch OFF.

Disconnect the blower hi relay 4P connector.

Turn the ignition switch ON.

Connect a jumper wire between the BLU/BLK terminal (+) and body ground.

Does blower motor run?

NO

Repair open in BLU/BLK wire between blower motor and blower hi-relay.

YES

Connect a jumper wire between the BLU/BLK terminal and BLK terminal.

Does blower motor run?

NO

Repair open in BLK wire between blower hi-relay and body ground or poor ground (G401).

YES

(To page 15-12)

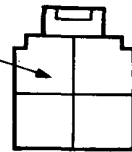
LHD: BLU/BLK
(RHD: BLU/WHT)



LHD: BLU/WHT
(RHD: BLU/BLK)

View from wire side.

BLU/BLK

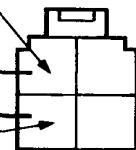


View from wire side.

BLU/BLK

JUMPER WIRE

BLK



View from wire side.

(cont'd)

Troubleshooting

Flow Chart — Blower (cont'd)

(From page 15-11)

Measure voltage between BLK/YEL (+) terminal and body ground.

Is the battery voltage?

NO

Repair open in BLK/YEL wire between ignition switch and blower hi-relay.

YES

Inspect blower hi-relay (page 15-28).

Is the blower hi-relay OK?

NO

Replace the blower hi-relay and retest.

YES

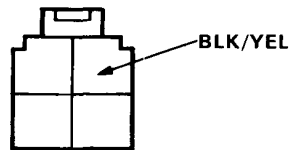
Turn the ignition switch OFF.

Reconnect the 4P connector to the blower hi-relay.

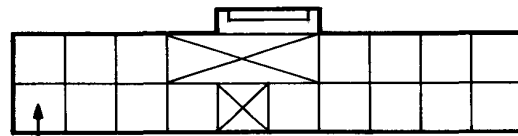
Disconnect the 16P connector from the function control panel.

Connect a jumper wire between the ORN/WHT terminal and body ground.

(To page 15-13)



View from wire side.



ORN/WHT

View from wire side.



(From page 15-12)

Turn the ignition switch ON.

Does the blower motor run?

NO

Repair open in ORN/WHT wire between blower hi-relay and function control panel.

YES

Check for continuity between BLK terminal and body ground.

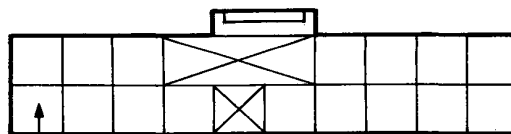
Is there continuity?

NO

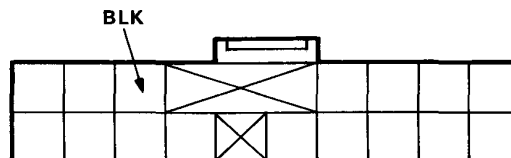
Repair open in BLK wire between function control panel and body ground or poor ground (G701).

YES

Replace the function control panel and retest.



ORN/WHT View from wire side.



View from wire side.

(cont'd)

Troubleshooting

Flow Chart — Blower (cont'd)

NOTE: Use the digital circuit tester (07411—0020000) to check.

Blower motor running speed does not change.

Turn the ignition switch OFF.

Disconnect the 3P connector from the power transistor.

Measure voltage between LT GRN/BLK (+) terminal and body ground.

Turn the ignition switch ON.

Blower motor speed control switch ON. (center position).

Is there battery voltage?

NO

Turn the ignition switch OFF.

YES

Inspect the power transistor (page 15-28).

Is the power transistor OK?

NO

Replace the power transistor and retest.

YES

Check for continuity from BLK terminal and body ground.

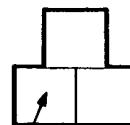
Is there continuity?

NO

Repair open in BLK wire between power transistor and body ground or poor ground (G401).

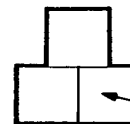
YES

Replace the function control panel and retest.



LT GRN/BLK

View from wire side.



BLK

View from wire side.

(To page 15-15)



(From page 15-14)

Measure voltage between BLU/BLK(+) terminal and body ground. Turn the ignition switch ON.

Is there battery voltage?

NO

Repair open in BLU/BLK wire between function control panel and blower motor.

YES

Turn the ignition switch OFF.

Check for continuity from LT GRN/BLK terminal and power transistor LT GRN/BLK terminal.

Is there continuity?

NO

Repair open in LT GRN/BLK wire between function control panel and power transistor.

YES

Check for continuity from BLK terminal and body ground.

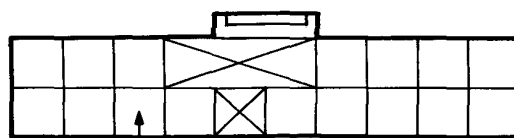
Is there continuity?

NO

Repair open in BLK wire between function control panel and body ground or poor ground (G701).

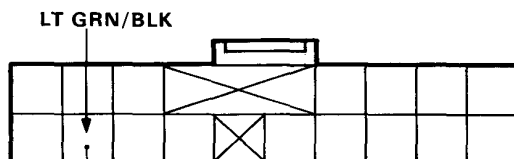
YES

Replace the function control panel and retest.

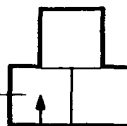


BLU/BLK

View from wire side.

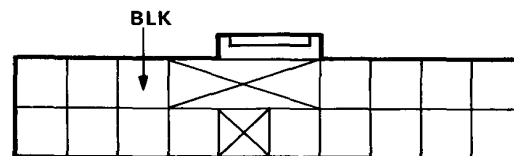


LT GRN/BLK



LT GRN/BLK

View from wire side.



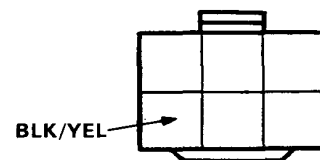
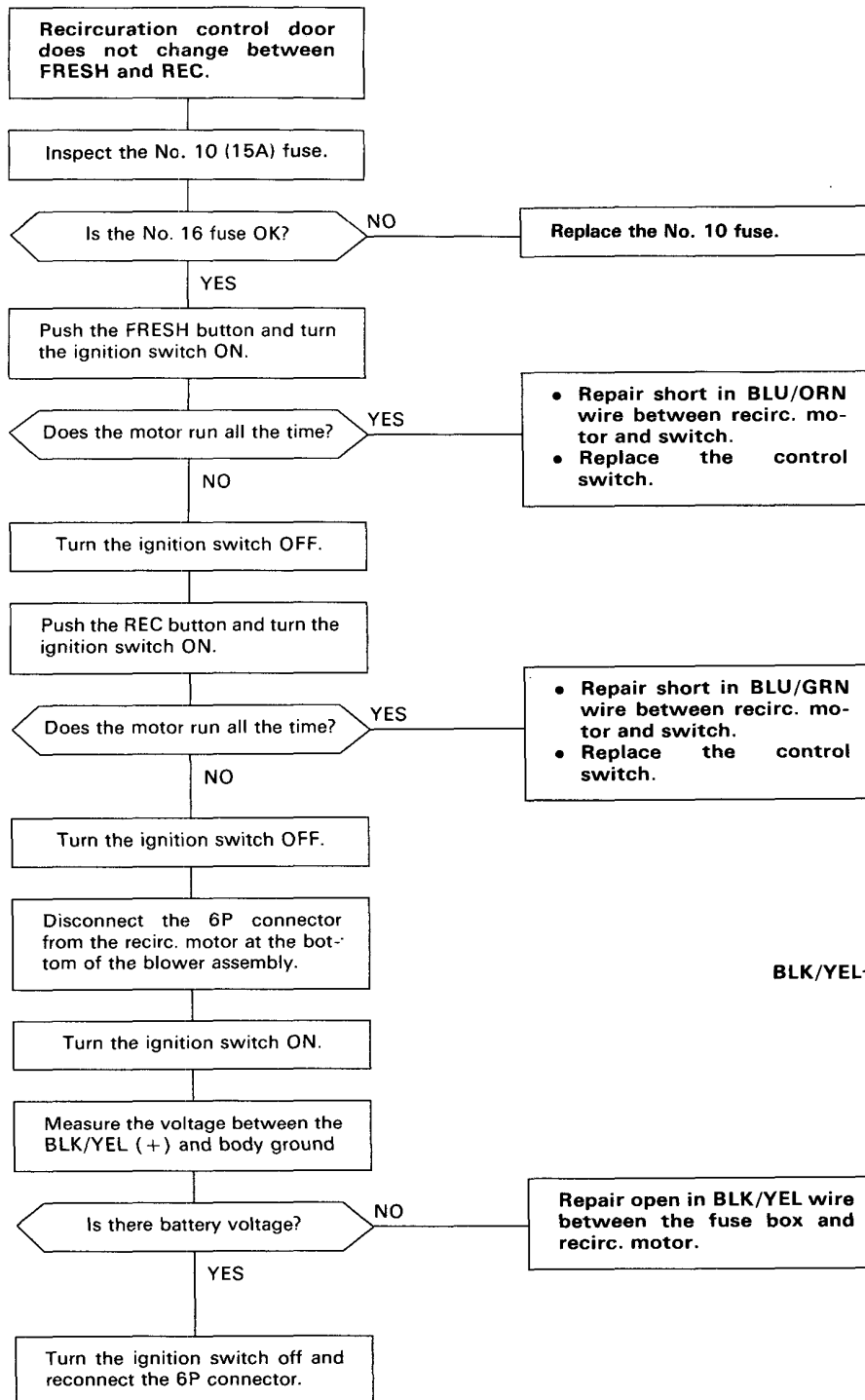
BLK

View from wire side.

Troubleshooting

Flow Chart — Recirculation Control

NOTE: Use the digital circuit tester (07411—0020000) to check.



View from wire side.

(To page 15-17)



(From page 15-16)

Connect the BLU/ORN and BLU/GRN terminals to the body ground. Turn the ignition switch ON.

Does the motor run all the time?

NO

Replace the recirculation control motor and retest.

YES

Turn the ignition switch OFF. Remove the function control panel and disconnect the 16P connector.

Connect the BLU/GRN and BLU/ORN terminals to BLK terminal using a jumper wire.

Does the motor run all the time?

YES

Replace the function control panel and retest.

NO

Check for continuity between the BLK terminal and body ground.

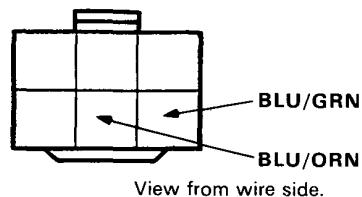
Is there continuity?

NO

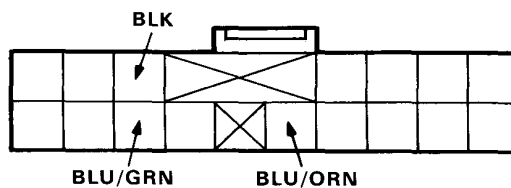
Repair open in BLK wire between the function control panel and body ground or poor ground (G401).

YES

Repair open in BLU/ORN and/or BLU/GRN wire(s) between the function control panel and recirculation control motor.



View from wire side.

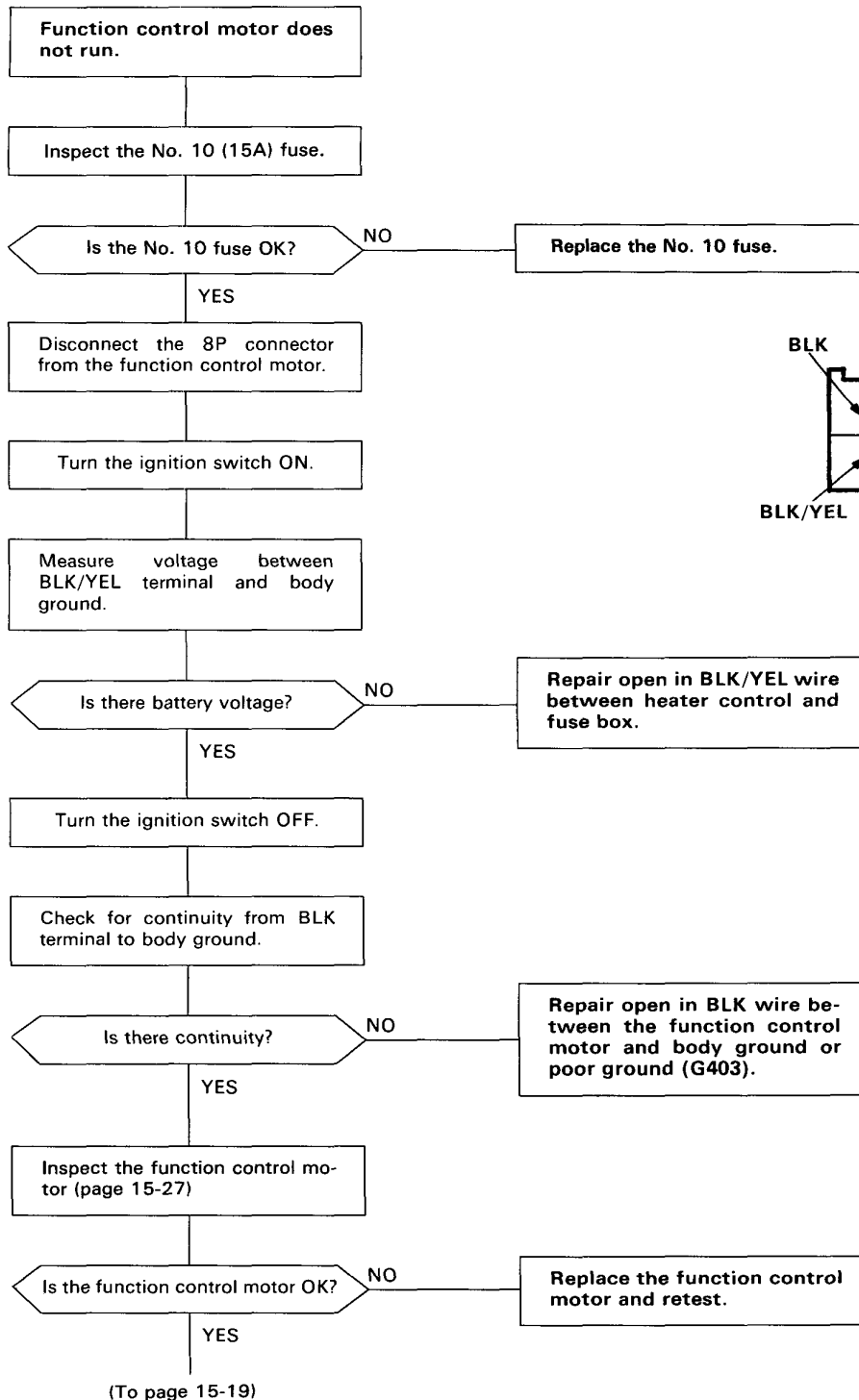


View from wire side.

Troubleshooting

Flow Chart — Function Control

NOTE: Use the digital circuit tester (07411—0020000) to check.





(From page 15-18)

Disconnect the 16P connector from the function control panel.

Check for continuity at each wire (YEL, GRY, BRN, YEL/GRN, BLU/RED or BLU) between the 8P and 16P connectors.

Does continuity exist?

NO

Repair open YEL, GRY, BRN, YEL/GRN, BLU/RED and/or BLU wire(s).

YES

Check for continuity from each wire (YEL, GRY, BRN, YEL/GRN, BLU/RED or BLU) to body ground.

Is there continuity?

YES

Repair short to body ground in wire.

NO

Check for continuity between BLK terminal to body ground.

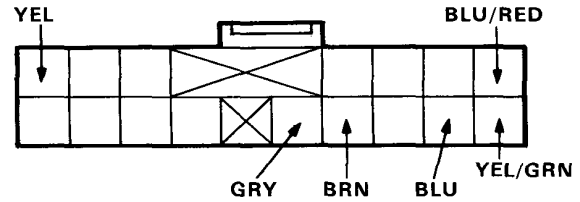
Is there continuity?

NO

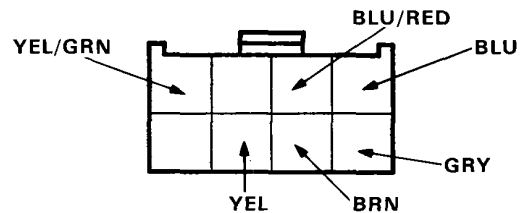
Repair open in BLK wire or poor ground (G403).

YES

Replace the function control panel.



View from wire side.



View from wire side.

NOTE: If any of the wires are shorted to ground, the function control motor will not change positions.