

SECTION

MTC

MANUAL AIR CONDITIONER

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PRECAUTIONS

PRECAUTIONS

PFP:00001

Precautions for Supplemental Restraint System (SRS) “AIR BAG” and “SEAT BELT PRE-TENSIONER”

EJS0028D

The Supplemental Restraint System such as “AIR BAG” and “SEAT BELT PRE-TENSIONER”, used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the SRS and SB section of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SRS section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harness connectors.

Wiring Diagrams and Trouble Diagnosis

EJS000WA

When you read wiring diagrams, refer to the following:

- [GI-13, "How to Read Wiring Diagrams"](#) in GI section.
- [PG-3, "Wiring Diagram — POWER —"](#) in EL section.

When you perform trouble diagnosis, refer to the following:

- [GI-9, "How to Follow Trouble Diagnoses"](#) in GI section.
- [GI-23, "How to Perform Efficient Diagnosis for an Electrical Incident"](#) in GI section.

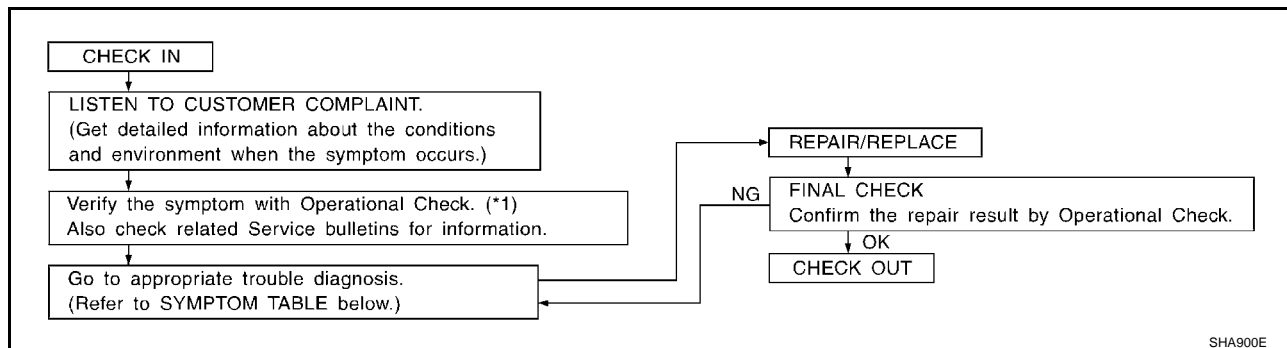
TROUBLE DIAGNOSIS

TROUBLE DIAGNOSIS

PFP:00004

How to Perform Trouble Diagnoses for Quick and Accurate Repair WORK FLOW

EJS001FB

*1 [MTC-7, "Operational Check"](#).

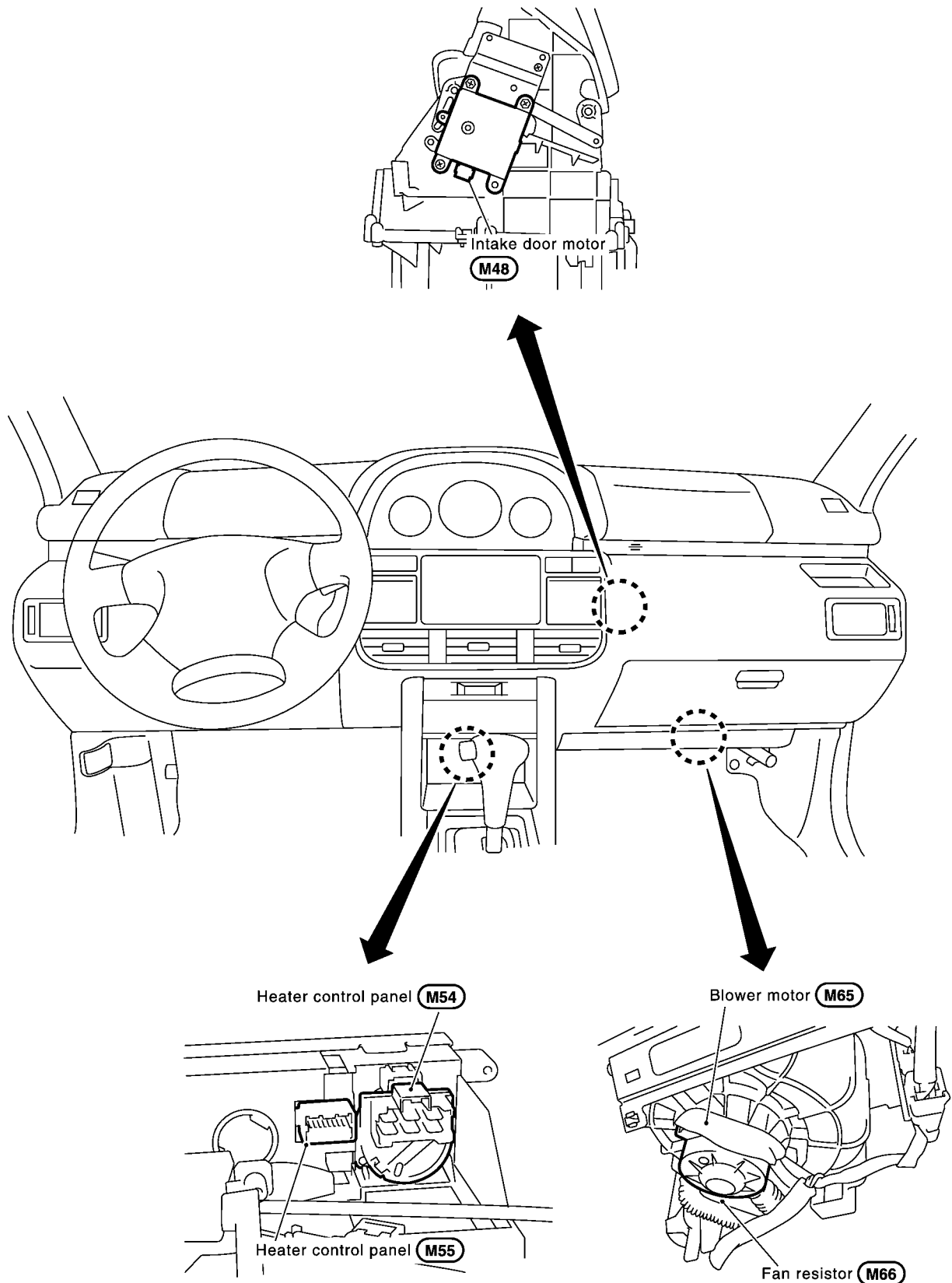
SYMPTOM TABLE

Symptom	Reference Page	
Air outlet does not change.	Go to Trouble Diagnosis Procedure for Mode Door.	MTC-27
Discharge air temperature does not change.	Go to Trouble Diagnosis Procedure Air Mix Door.	MTC-28
Intake door does not change.	Go to Trouble Diagnosis Procedure for Intake Door Motor.	MTC-11
Intake door motor does not operate normally.		
Blower motor operation is malfunctioning.	Go to Trouble Diagnosis Procedure for Blower Motor.	MTC-14
Insufficient heating.	Go to Trouble Diagnosis Procedure for Insufficient Heating.	MTC-18

TROUBLE DIAGNOSIS

Component Parts and Harness Connector Location PASSENGER COMPARTMENT

EJS001FC



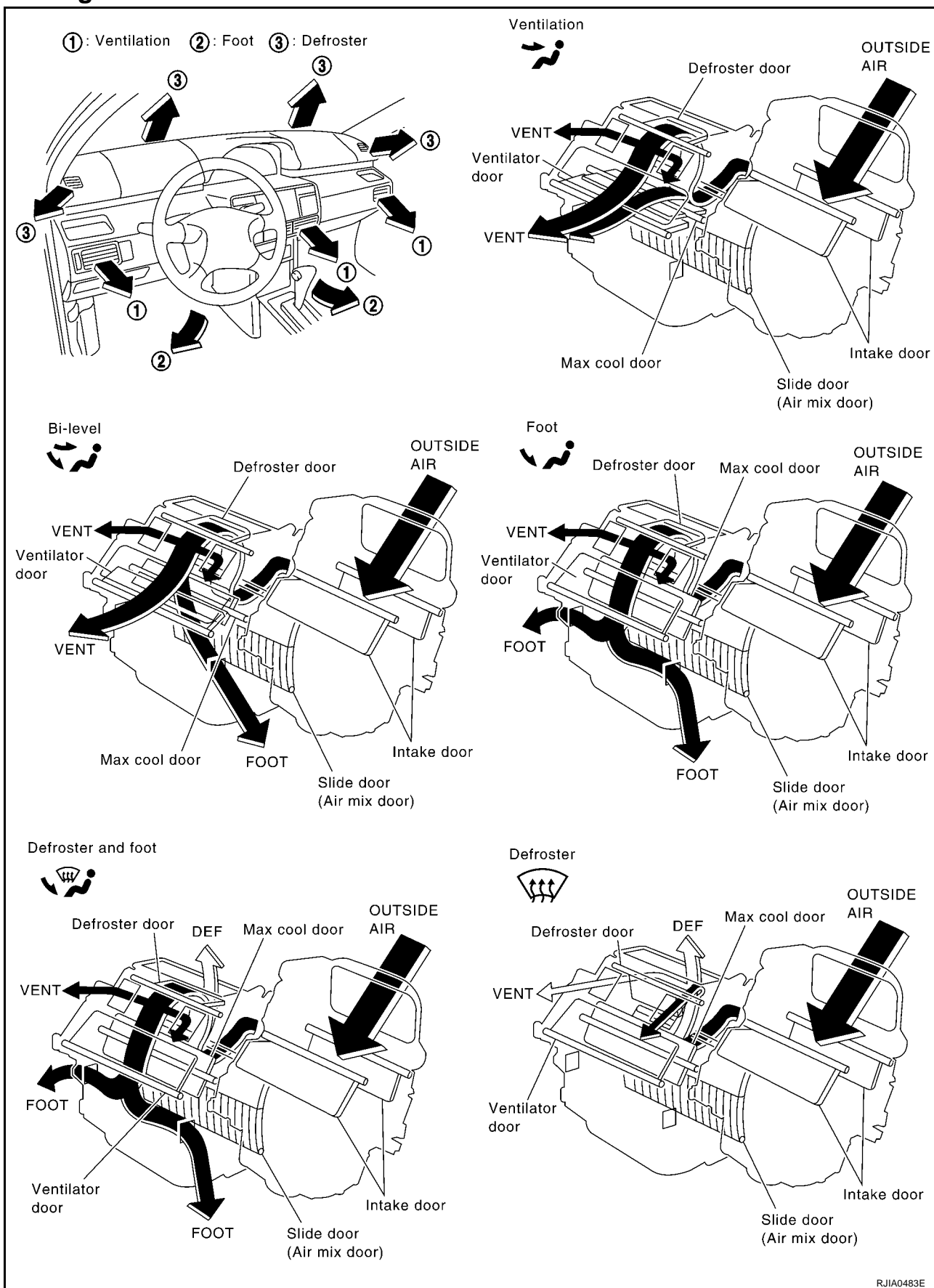
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TROUBLE DIAGNOSIS

Discharge Air Flow

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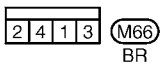
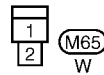
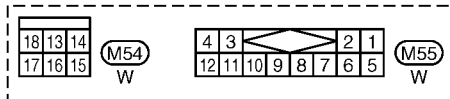
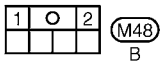
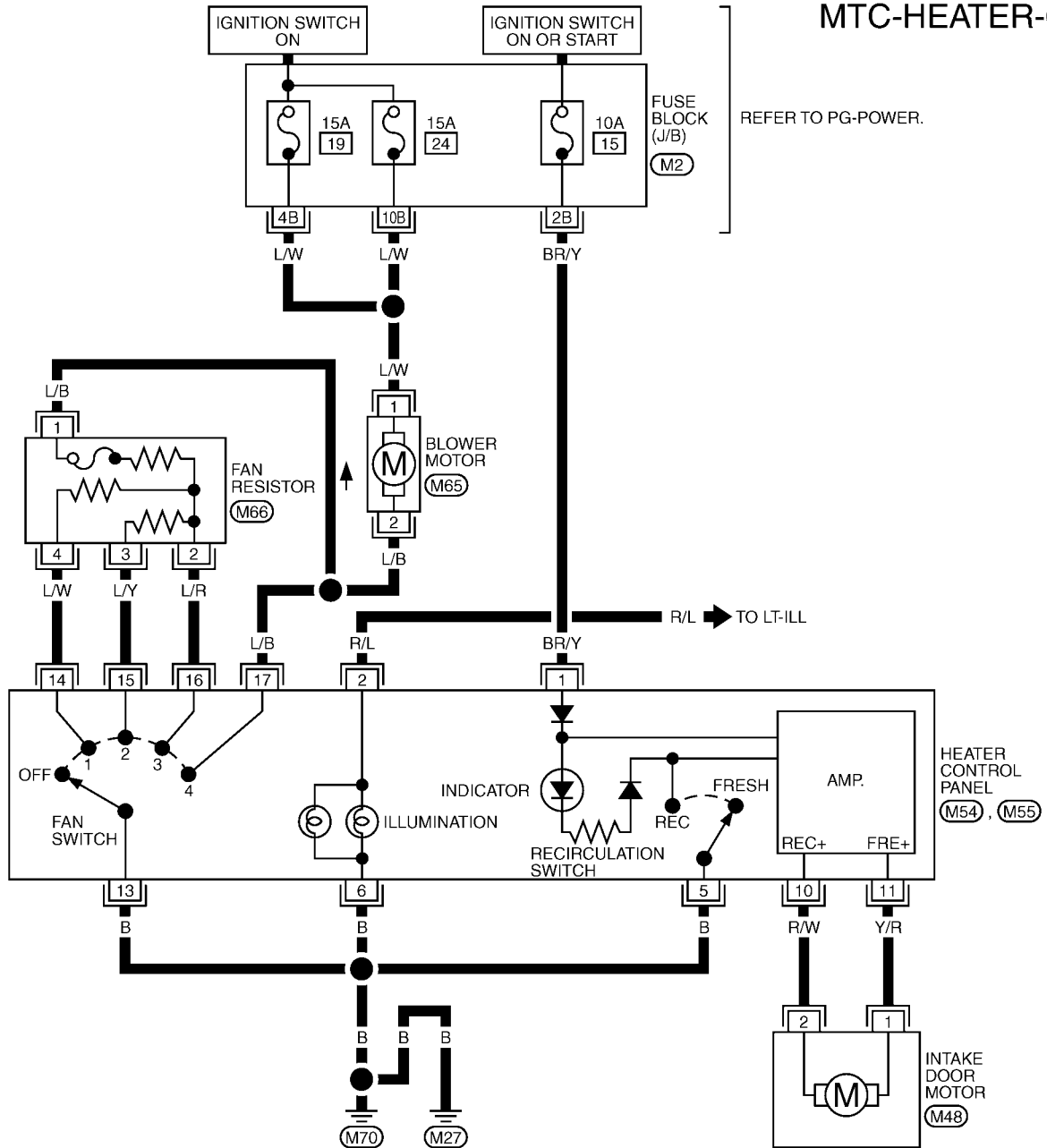


TROUBLE DIAGNOSIS

Wiring Diagram-HEATER

EJS001FD

MTC-HEATER-01



REFER TO THE FOLLOWING.

(M2) -FUSE BLOCK-JUNCTION BOX (J/B)

TROUBLE DIAGNOSIS

Operational Check

EJS001FE

The purpose of the operational check is to confirm that the system operates properly.

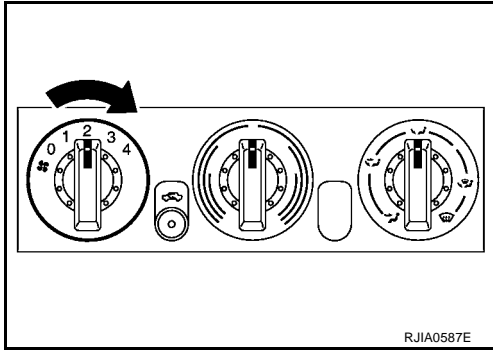
Conditions :Engine running and at normal operating temperature

CHECKING BLOWER

1. Turn fan switch to 1-speed. Blower should operate on low speed.
2. Then turn fan switch to 2-speed, and continue checking blower speed until all speeds are checked.
3. Leave blower on 4-speed.

If NG, go to trouble diagnosis procedure for [MTC-14, "Blower Motor Circuit"](#) .

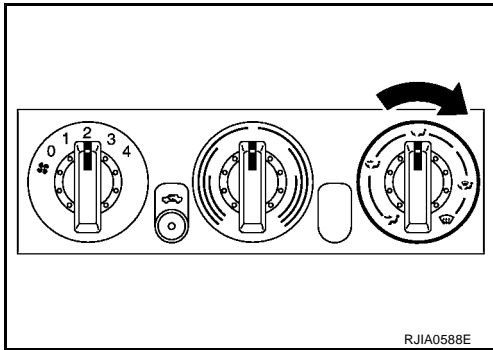
If OK, continue with next check.



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CHECKING DISCHARGE AIR

1. Set the mode control dial to each position.



RJIA0588E

2. Confirm that discharge air comes out according to the air distribution table.Refer to [MTC-5, "Discharge Air Flow"](#) .

Intake door position is checked in the next step.

If NG, go to trouble diagnosis procedure for mode door motor.

If OK, continue with next check.

Discharge air flow			
Mode door position	Air outlet/distribution		
	Face	Foot	Defroster
	100%	—	—
	60%	40%	—
	24%	76%	—
	18%	54%	28%
	20%	—	80%

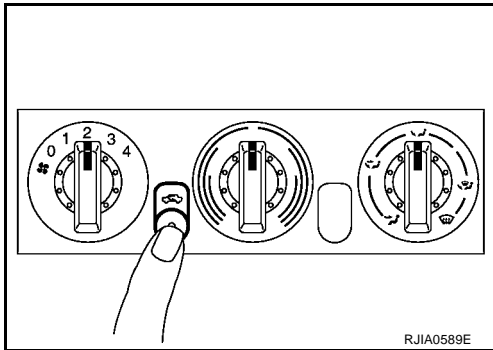
RJIA0492E

CHECKING RECIRCULATION

1. Press REC switch one time. Recirculation indicator should illuminate.
2. Listen for intake door position change (you should hear blower sound change slightly).

If NG, go to trouble diagnosis procedure for [MTC-11, "Intake Door Motor Circuit"](#) .

If OK, continue with next check.

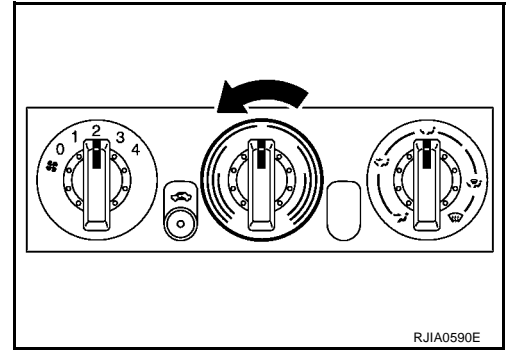


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TROUBLE DIAGNOSIS

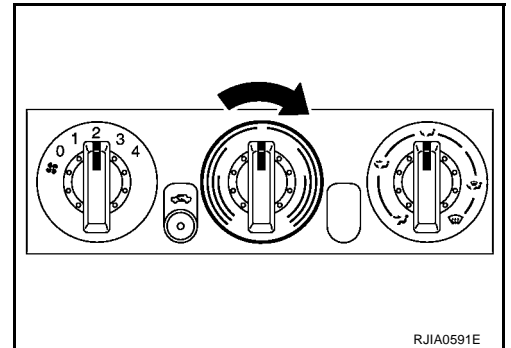
CHECKING TEMPERATURE DECREASE

1. Turn the temperature dial to full cold position.
 2. Check for cold air at discharge air outlets.
- If NG, go to trouble diagnosis procedure for air mix door.
If OK, continue with next check.



CHECKING TEMPERATURE INCREASE

1. Turn the temperature dial to full hot position.
 2. Check for hot air at discharge air outlets.
- If NG, go to trouble diagnosis procedure for [MTC-18, "Insufficient Heating"](#) .
If all operational check are OK (symptom can not be duplicated), go to Incident Simulation Tests in [GI-23, "How to Perform Efficient Diagnosis for an Electrical Incident"](#) and perform tests as outlined to simulate driving conditions environment. If symptom appears, refer to [MTC-3, "SYMPTOM TABLE"](#) and perform applicable trouble diagnosis procedures.



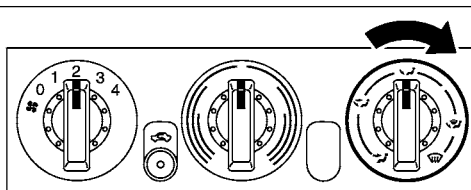
TROUBLE DIAGNOSIS

Mode Door

EJS001FF

SYMPTOM: Air outlet does not change.

1. Confirm symptom by performing the following operation.



Discharge air flow

Mode door position	Air outlet/distribution		
	Face	Foot	Defroster
	100%	—	—
	60%	40%	—
	24%	76%	—
	18%	54%	28%
	20%	—	80%

OPERATIONAL CHECK – Mode door

- Turn the mode control knob to each position.
- Confirm that discharge air comes out according to the distribution table at left.
Refer to "Discharge Air Flow", (*1).

2. Check for any service bulletins.

3. Check mode door control cable. (*3)

OK

4. If the symptom still exists, perform a complete operational check (*2) and check for other symptoms. [Refer to symptom table, (*4).]
Does another symptom exist?

Yes

Go to Trouble Diagnosis for related symptom.

[Another symptom exists.]

No

INSPECTION END

*1 [MTC-5, "Discharge Air Flow".](#)

*2 [MTC-7, "Operational Check".](#)

*3 [MTC-27, "MODE DOOR".](#)

*4 [MTC-3, "SYMPTOM TABLE".](#)

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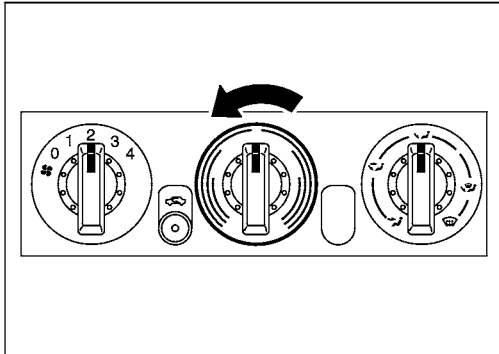
TROUBLE DIAGNOSIS

Air Mix Door

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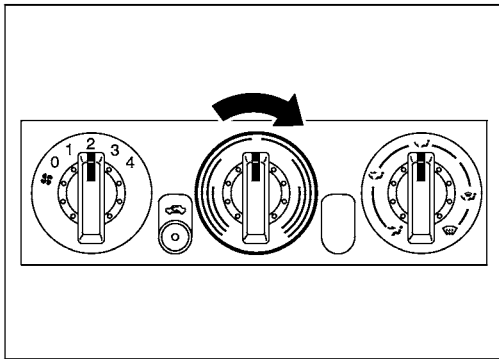
SYMPTOM: Air mix door does not change.

1. Confirm symptom by performing the following operational check.



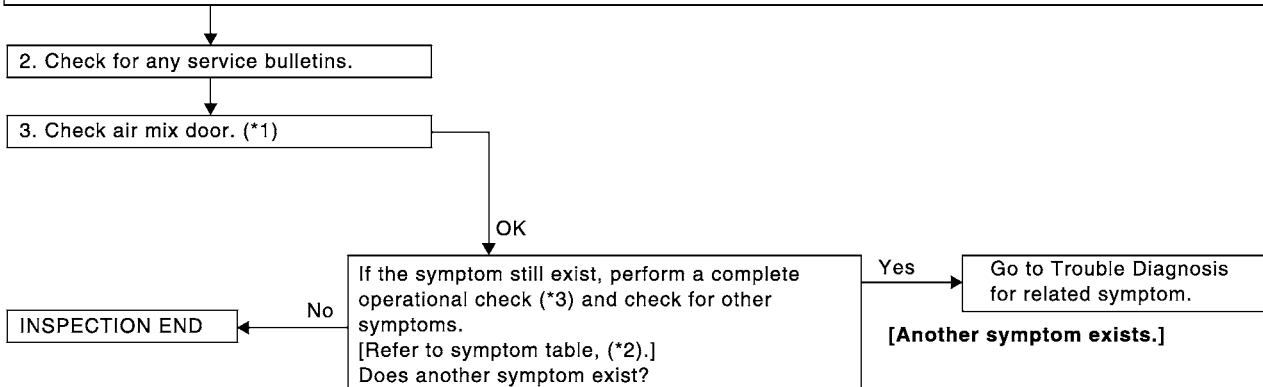
OPERATIONAL CHECK – Temperature decrease and increase

1. Check Temperature Decrease
 - 1) Turn temperature control dial to full cold.
 - 2) Check for cold air at discharge air outlets.



2. Check Temperature Increase
 - 1) Turn temperature control dial to full hot.
 - 2) Check for hot air at discharge air outlets.

If OK (symptom cannot be duplicated). Perform complete operational check. (*3)
If NG (symptom is confirmed), continue with STEP-2 following.



*1 [MTC-28. "AIR MIX DOOR".](#)

*2 [MTC-3. "SYMPTOM TABLE".](#)

*3 [MTC-7. "Operational Check".](#)

RJIA0593E

TROUBLE DIAGNOSIS

Intake Door Motor Circuit

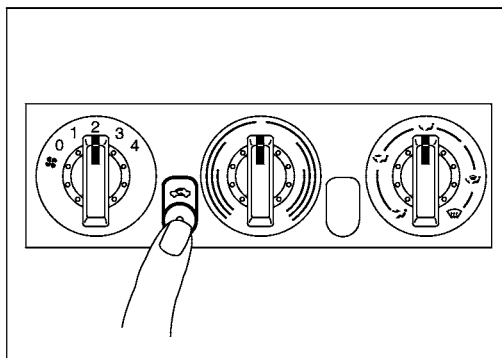
EJS001FH

SYMPTOM:

- Intake door does not change.
- Intake door motor does not operate normally.

INSPECTION FLOW

1. Confirm symptom by performing the following operational check.



OPERATIONAL CHECK – Recirculation

- 1) Press the REC switch.
- 2) Listen for intake door position change.

2. Check for any service bulletins.

3. Check intake door motor circuit. (*1)

OK

INSPECTION END

If the symptom still exist, perform a complete operational check (*2) and check for other symptoms.
[Refer to symptom table, (*3).]
Does another symptom exist?

Yes

Go to Trouble Diagnosis for related symptom.

[Another symptom exists.]

*1 [MTC-11, "Intake Door Motor Circuit"](#). *2 [MTC-7, "Operational Check"](#).

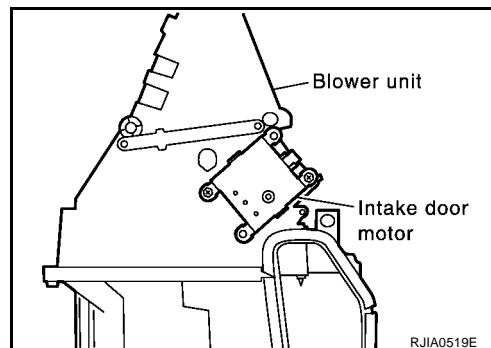
*3 [MTC-3, "SYMPTOM TABLE"](#).

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COMPONENT DESCRIPTION

Intake door motor

The intake door motor is attached to the intake unit. It rotates so that air is drawn from inlets set by the auto amplifier. Motor rotation is conveyed to a lever which activates the intake door.

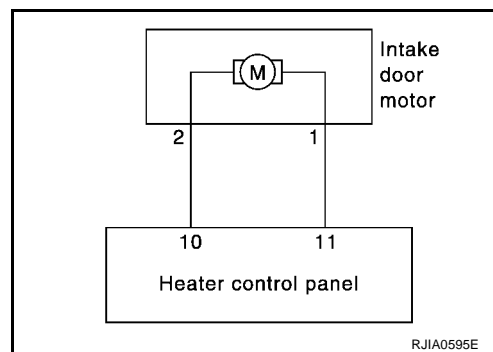


RJIA0519E

TROUBLE DIAGNOSIS

DIAGNOSTIC PROCEDURE

SYMPTOM: Intake door does not change.



1. CHECK POWER SUPPLY FOR HEATER CONTROL PANEL

Disconnect heater control panel harness connector.

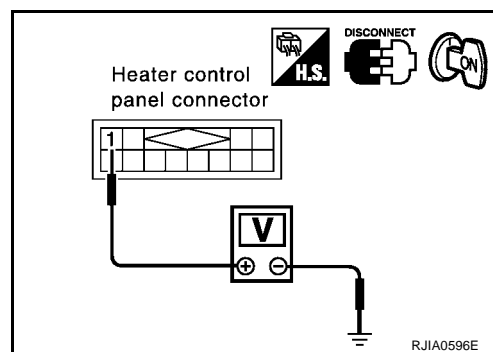
Terminals			Voltage
(+)		(-)	
Connector	Terminal (Wire color)		
M55	1 (BR/Y)	Ground	Approx. 12V

OK or NG

OK >> GO TO 2.

NG >> Check power supply circuit and 10 A fuse [No. 15, located in the fuse block (J/B)]. Refer to [PG-3, "BATTERY POWER SUPPLY — IGNITION SW. IN ANY POSITION"](#).

- If OK, check for open circuit in wiring harness. Repair or replace as necessary.
- If NG, replace fuse and check wiring harness for short circuit. Repair or replace as necessary.



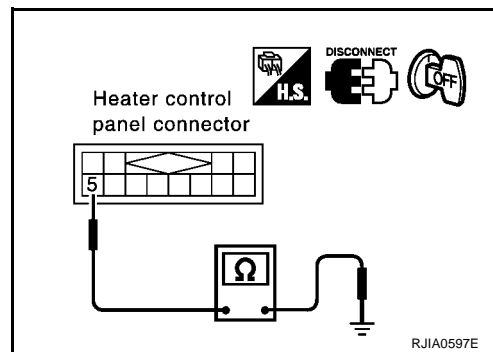
2. CHECK BODY GROUND CIRCUIT FOR HEATER CONTROL PANEL

Terminals			Continuity
Connector	Terminal (Wire color)	-	
M55	5 (B)	Ground	
			Yes

OK or NG

OK >> GO TO 3.

NG >> Repair harness or connector.



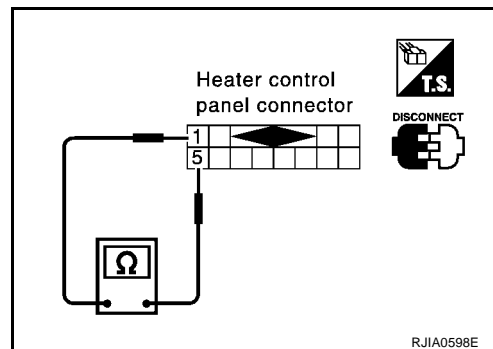
3. CHECK RECIRCULATION SWITCH CIRCUIT

Terminals				Continuity
Connector	Terminal (Wire color)	Connector	Terminal (Wire color)	
M55	1 (BR/Y)	M55	5 (B)	
				Yes

OK or NG

OK >> GO TO 4.

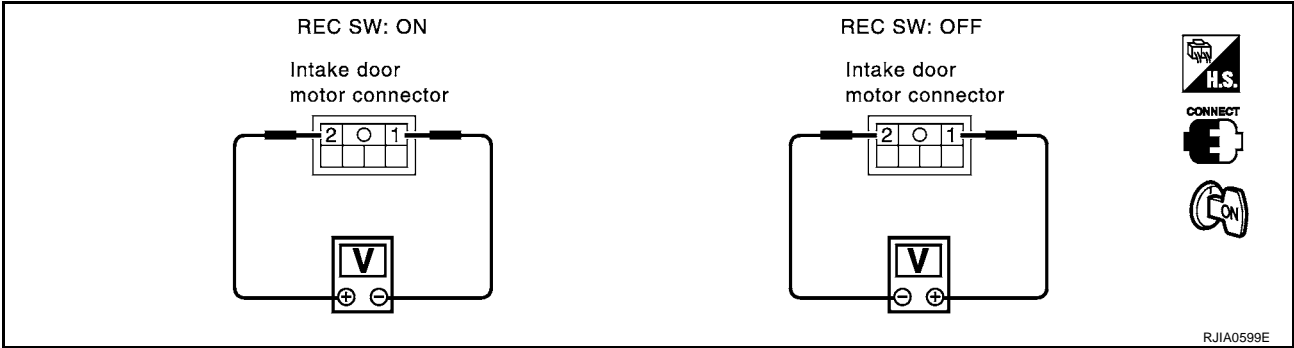
NG >> Replace heater control panel.



TROUBLE DIAGNOSIS

4. CHECK POWER SUPPLY FOR INTAKE DOOR MOTOR

Reconnect heater control panel connector.



Terminals				Condition	Voltage
(+) (+)		(-) (-)			
Connector	Terminal (Wire color)	Connector	Terminal (Wire color)		
M48	2 (R/W)	M48	1 (Y/R)	REC SW: ON	Approx. 12V
M48	1 (Y/R)	M48	2 (R/W)	REC SW: OFF	

OK or NG

- OK >> Replace intake door motor.
- NG >> GO TO 5.

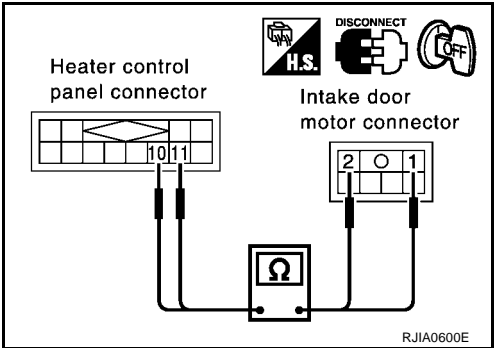
5. CHECK CIRCUIT CONTINUITY BETWEEN HEATER CONTROL PANEL AND INTAKE DOOR MOTOR

Disconnect the heater control panel connector and intake door motor connector.

Terminals				Continuity
Heater control panel connector		Intake door motor connector		
Connector	Terminal (Wire color)	Connector	Terminal (Wirecolor)	
M55	10 (R/W)	M48	2 (R/W)	Yes
M55	11 (Y/R)	M48	1 (Y/R)	

OK or NG

- OK >> Replace heater control panel.
- NG >> Repair harness or connector.



TROUBLE DIAGNOSIS

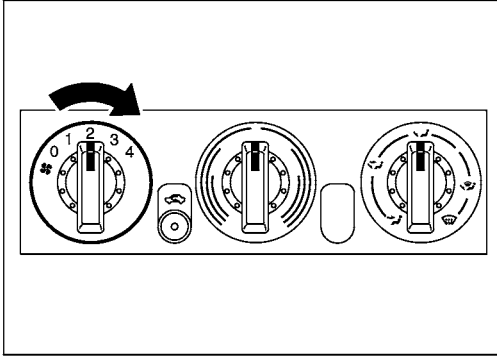
Blower Motor Circuit

EJS001FI

SYMPTOM: Blower motor operation is malfunctioning.

INSPECTION FLOW

1. Confirm symptom by performing the following operational check.



OPERATIONAL CHECK – Blower motor

- 1) Turn fan switch to 1-speed.
Blower should operate on 1-speed.
- 2) Then turn fan switch to 2-speed.
- 3) Continue checking blower speed until all four speeds are checked.
- 4) Leave blower on 4-speed.

If OK (symptom cannot be duplicated), perform complete operational check (*4).

If NG (symptom is confirmed), continue with STEP-2 following.

2. Check for any service bulletins.

3. Check blower motor circuit. (*1)

OK

If the symptom still exist, perform a complete operational check (*2) and check for other symptoms.
[Refer to symptom table, (*3).]
Does another symptom exist?

Yes

Go to Trouble Diagnosis for related symptom.

[Another symptom exists.]

No

INSPECTION END

*1 [MTC-14, "Blower Motor Circuit".](#)

*2 [MTC-7, "Operational Check".](#)

*3 [MTC-3, "SYMPTOM TABLE".](#)

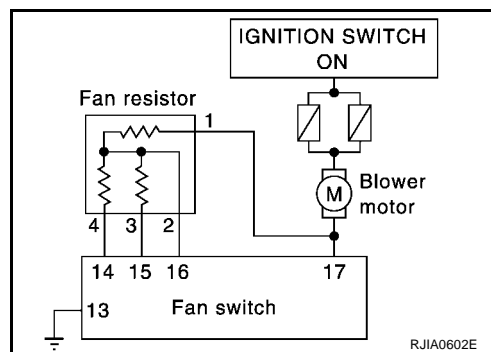
*4 [MTC-7, "Operational Check".](#)

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TROUBLE DIAGNOSIS

DIAGNOSTIC PROCEDURE

SYMPTOM: Blower motor operation is malfunctioning.



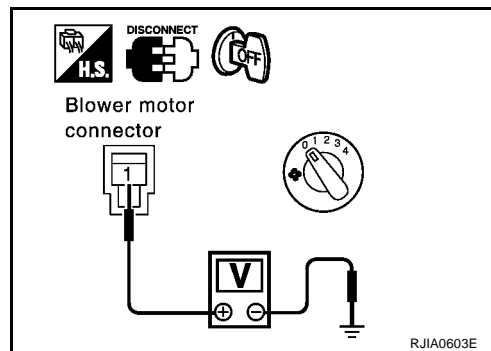
1. CHECK POWER SUPPLY FOR BLOWER MOTOR

Disconnect blower motor harness connector.

Terminals		Voltage
(+)	(-)	
Connector	Terminal (Wire color)	
M65	1 (L/W)	Ground
		Approx. 12V

OK or NG

- OK >> GO TO 2.
- NG >> Check power supply circuit and 15A fuses [Nos. 19 and 24, located in the fuse block (J/B)]. Refer to [PG-3, "BATTERY POWER SUPPLY — IGNITION SW. IN ANY POSITION"](#).
- If OK, check for open circuit in wiring harness. Repair or replace as necessary.
 - If NG, replace fuse and check wiring harness for short circuit. Repair or replace as necessary.

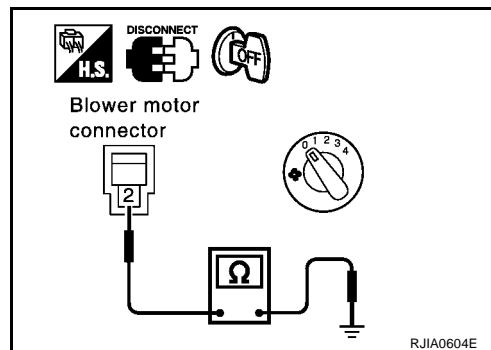


2. CHECK BODY GROUND CIRCUIT FOR BLOWER MOTOR

Terminals		Condition	Continuity
Connector	Terminal (Wire color)	Ground	
M65	2 (B)	FAN SW: ON	Yes

OK or NG

- OK >> GO TO 3.
- NG >> GO TO 4.



3. CHECK BLOWER MOTOR

Refer to [MTC-14, "Blower Motor Circuit"](#).

OK or NG

- OK >> INSPECTION END
- NG >> Replace blower motor.

TROUBLE DIAGNOSIS

4. CHECK CIRCUIT CONTINUITY BETWEEN BLOWER MOTOR AND FAN RESISTOR

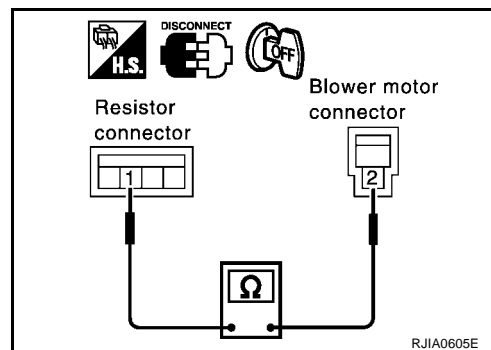
Disconnect fan resistor connector.

Terminals				Continuity
Fan resistor connector		Blower motor connector		
Connector	Terminal (Wire color)	Connector	Terminal (Wire color)	
M66	1 (L/B)	M65	2 (L/B)	Yes

OK or NG

OK >> GO TO 4.

NG >> Repair harness or connector.



5. CHECK FAN RESISTOR

Refer to [MTC-17, "Blower Fan Resistor"](#).

OK or NG

OK >> GO TO 6.

NG >> Replace fan resistor.

6. CHECK CIRCUIT CONTINUITY BETWEEN FAN RESISTOR AND HEATER CONTROL PANEL

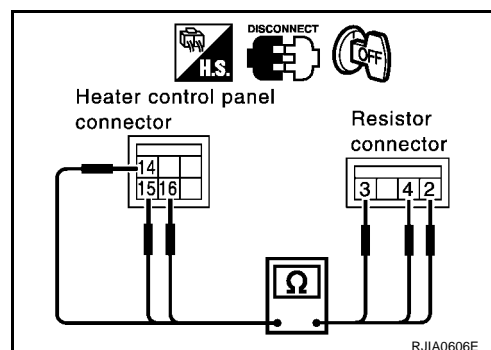
Disconnect heater control panel connector.

Terminals				Continuity
Fan resistor connector		Heater control panel connector		
Connector	Terminal (Wire color)	Connector	Terminal (Wire color)	
M66	2 (L/R)	M54	16 (L/R)	Yes
M66	3 (L/Y)	M54	15 (L/Y)	
M66	4 (L/W)	M54	14 (L/W)	

OK or NG

OK >> GO TO 7.

NG >> Repair harness or connector.



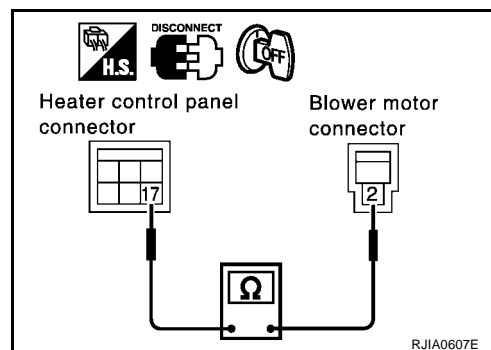
7. CHECK CIRCUIT CONTINUITY BETWEEN BLOWER MOTOR AND HEATER CONTROL PANEL

Terminals				Continuity
Blower motor connector		Heater control panel connector		
Connector	Terminal (Wire color)	Connector	Terminal (Wire color)	
M65	2 (L/B)	M54	17 (L/B)	Yes

OK or NG

OK >> GO TO 8.

NG >> Repair harness or connector.



8. CHECK FAN SWITCH

Refer to [MTC-17, "Fan Switch"](#).

OK or NG

OK >> GO TO 9.

NG >> Replace fan switch.

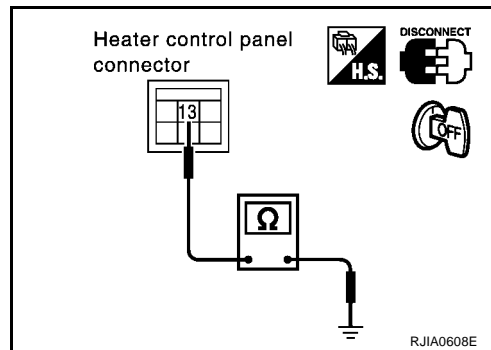
TROUBLE DIAGNOSIS

9. CHECK GROUND CIRCUIT

Terminals			Continuity
Connector	Terminal (Wire color)	Ground	Yes
M54	13 (B)		

OK or NG

- OK >> INSPECTION END
- NG >> Repair harness or connector.

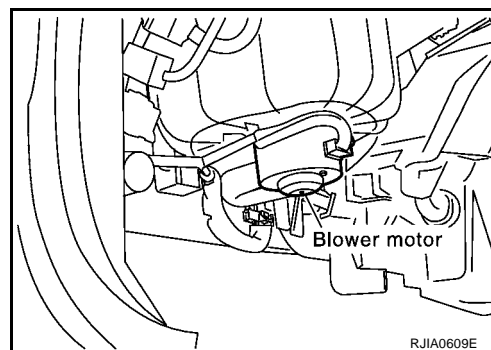


COMPONENT INSPECTION

Blower Motor

Confirm smooth rotation of the blower motor.

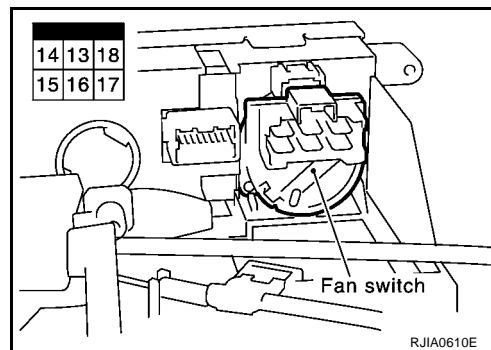
- Ensure that there are no foreign particles inside the intake unit.



Fan Switch

Check continuity between terminals at each switch position.

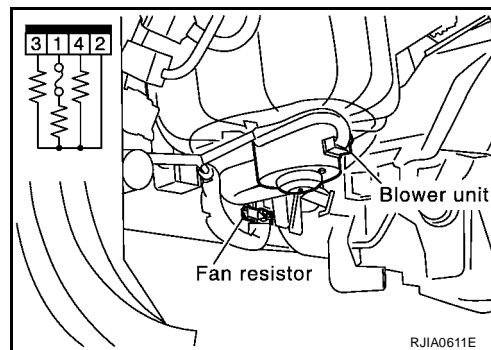
Switch position	Connector	Terminals	Continuity
OFF	M54	13 - 14, 15, 16, 17	No
1		13 - 14	Yes
2		13 - 15	
3		13 - 16	
4		13 - 17	



Blower Fan Resistor

Check continuity between terminals.

Terminals		Continuity
M66 - 1	M66 - 2	Yes
	M66 - 3	
	M66 - 4	



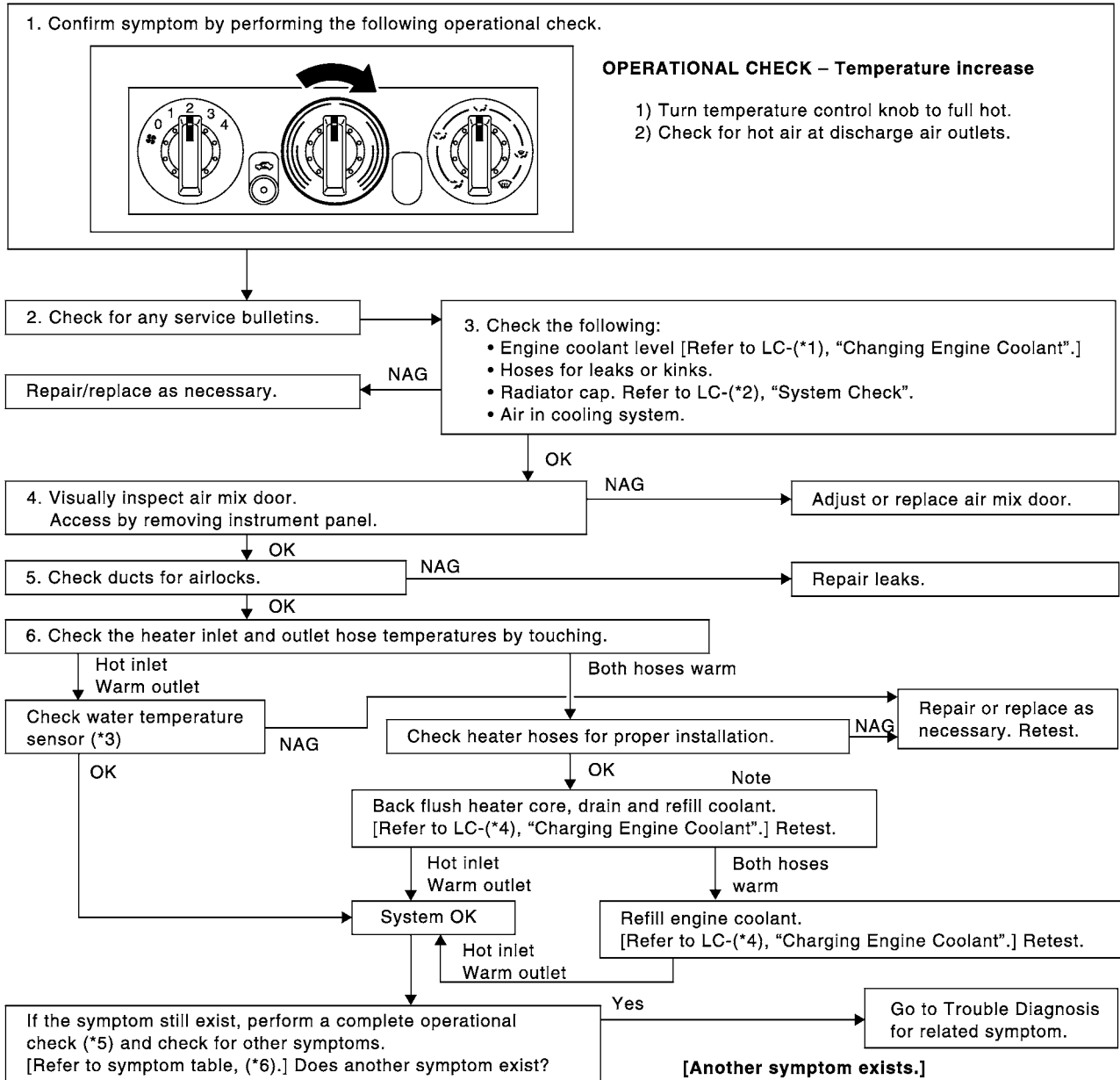
TROUBLE DIAGNOSIS

Insufficient Heating

EJS001FJ

SYMPTOM: Insufficient heating

INSPECTION FLOW



RJIA0612E

TROUBLE DIAGNOSIS

*1	QR engine; CO-9, "Changing Engine Coolant" . YD engine; CO-29, "Changing Engine Coolant" .	*2	QR engine; CO-12, "Checking Radiator Cap" YD engine; CO-33, "Checking Radiator Cap" .	*3	QR25 engine; (WITH EURO-OBD) EC-153, "ENGINE COOLANT TEMPERATURE SENSOR" . QR25 engine; (WITHOOUT EURO-OBD) EC-527, "ENGINE COOLANT TEMPERATURE SENSOR" . QR20 engine; (WITH EURO-OBD) EC-885, "ENGINE COOLANT TEMPERATURE SENSOR" . QR20 engine; (WITHOUT EURO-OBD) EC-1213, "ENGINE COOLANT TEMPERATURE SENSOR" . YD engine; EC-1508, "SYSTEM DESCRIPTION" .	A
						B
						C
						D
*4	QR engine; CO-9, "Changing Engine Coolant" . YD engine; CO-29, "Changing Engine Coolant" .	*5	MTC-7, "Operational Check"	*6	MTC-3, "SYMPTOM TABLE"	E
						F
						G
						H
						I
						MTC
						K
						L
						M

CONTROLLER

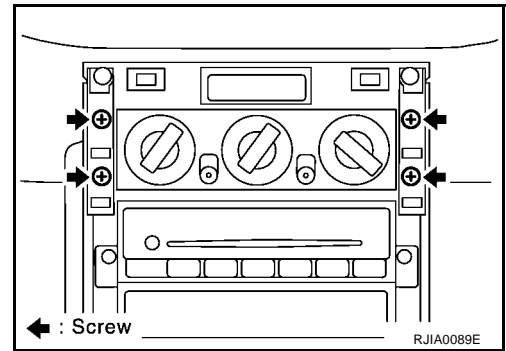
CONTROLLER

PFP:27500

Removal and Installation

EJS001F7

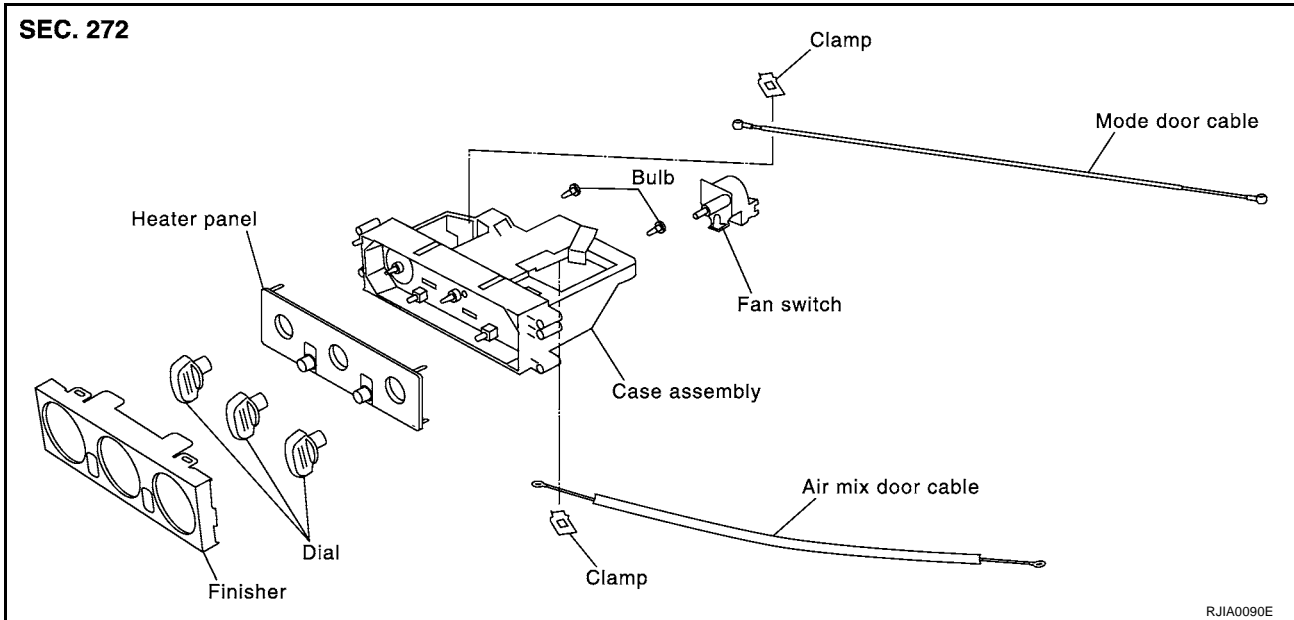
1. Remove the mode control cable and air mix control cable from heater unit.
2. Remove the cluster lid finisher.
3. Remove the fixing screw from heater control panel.
4. Remove the heater control panel, then remove the heater control panel connector.



Disassembly and Assembly

EJS001F8

SEC. 272



BLOWER MOTOR

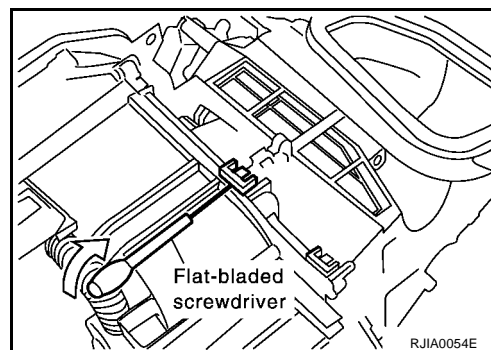
BLOWER MOTOR

PFP:27226

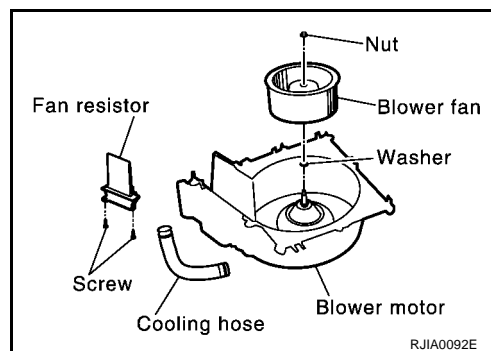
Removal and Installation

EJS000XK

1. Remove the blower unit.
2. Separate the blower unit.



3. Remove the cooling hose, blower fan resistor and blower fan.



MTC

BLOWER FAN RESISTOR

BLOWER FAN RESISTOR

PFP:27150

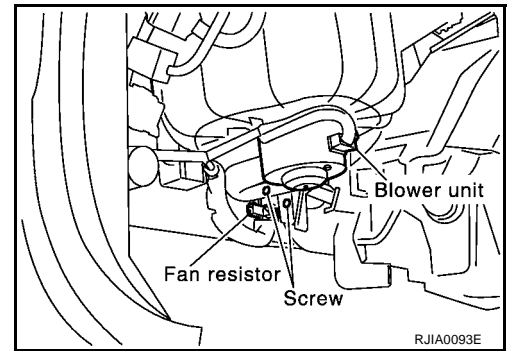
Removal and Installation

EJS000XL

1. Remove the glove box cover.
2. Remove the blower fan resistor.

CAUTION:

Do not repair the thermal fuse of the fan resistor.



INTAKE DOOR MOTOR

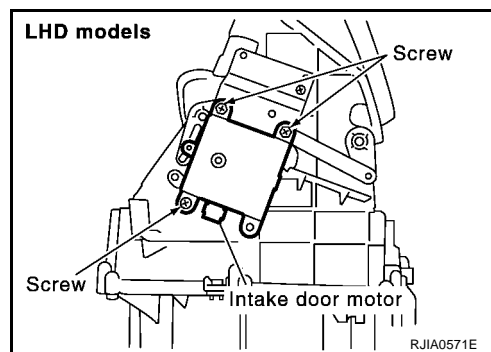
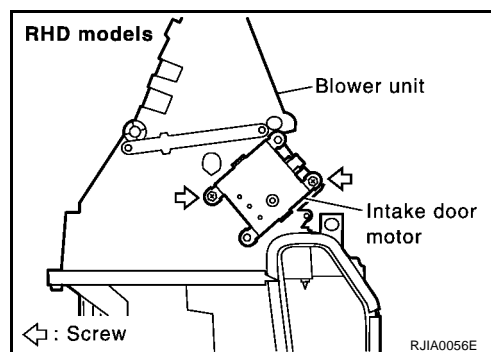
INTAKE DOOR MOTOR

PFP:27730

Removal and Installation

EJS000XM

1. Remove the blower unit.
2. Remove the intake door motor from blower unit.



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HEATER UNIT

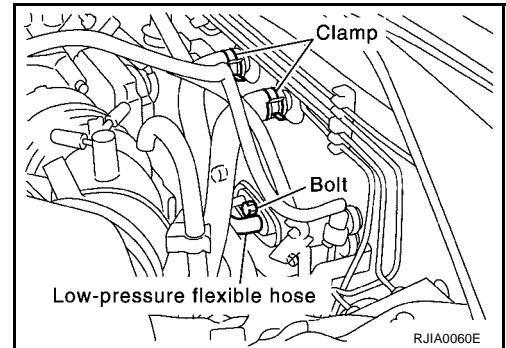
HEATER UNIT

PFP:27100

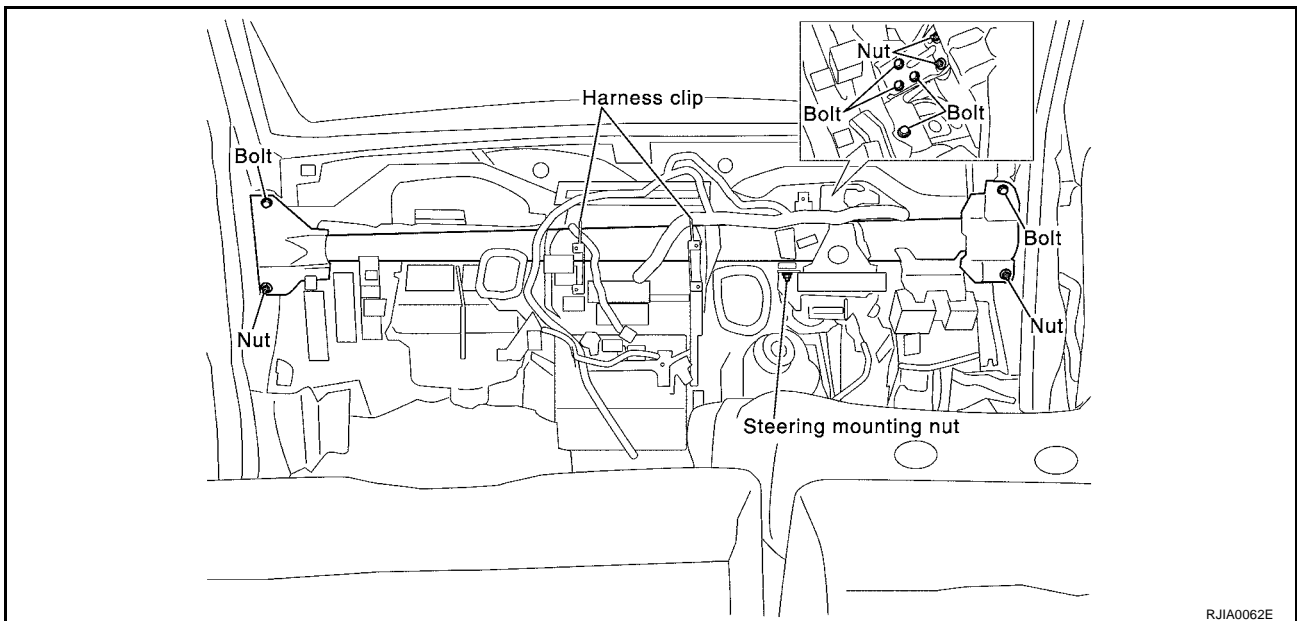
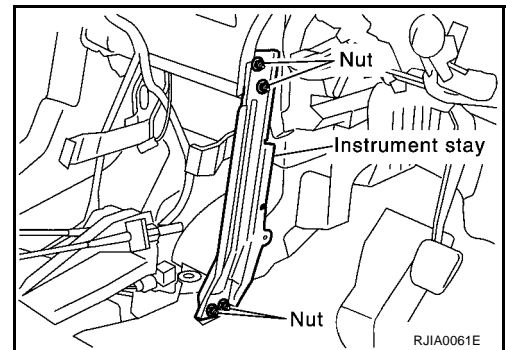
Removal and Installation REMOVAL

EJS001F9

1. Drain coolant from cooling system.
2. Disconnect two heater hoses from heater core pipe.
3. Remove the instrument panel.
4. Remove the blower unit.
5. Remove the clips of vehicle harness from steering member.



6. Remove the instrument stay.

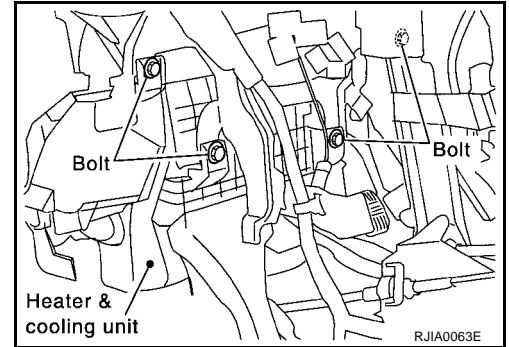


NOTE:

This illustration is for RHD models. The layout for LHD models is symmetrically opposite.

HEATER UNIT

7. Remove the mounting bolts from heater unit.
8. Remove the steering member.
9. Remove the heater unit.



INSTALLATION

1. Installation is basically the reverse order of removal.

NOTE:

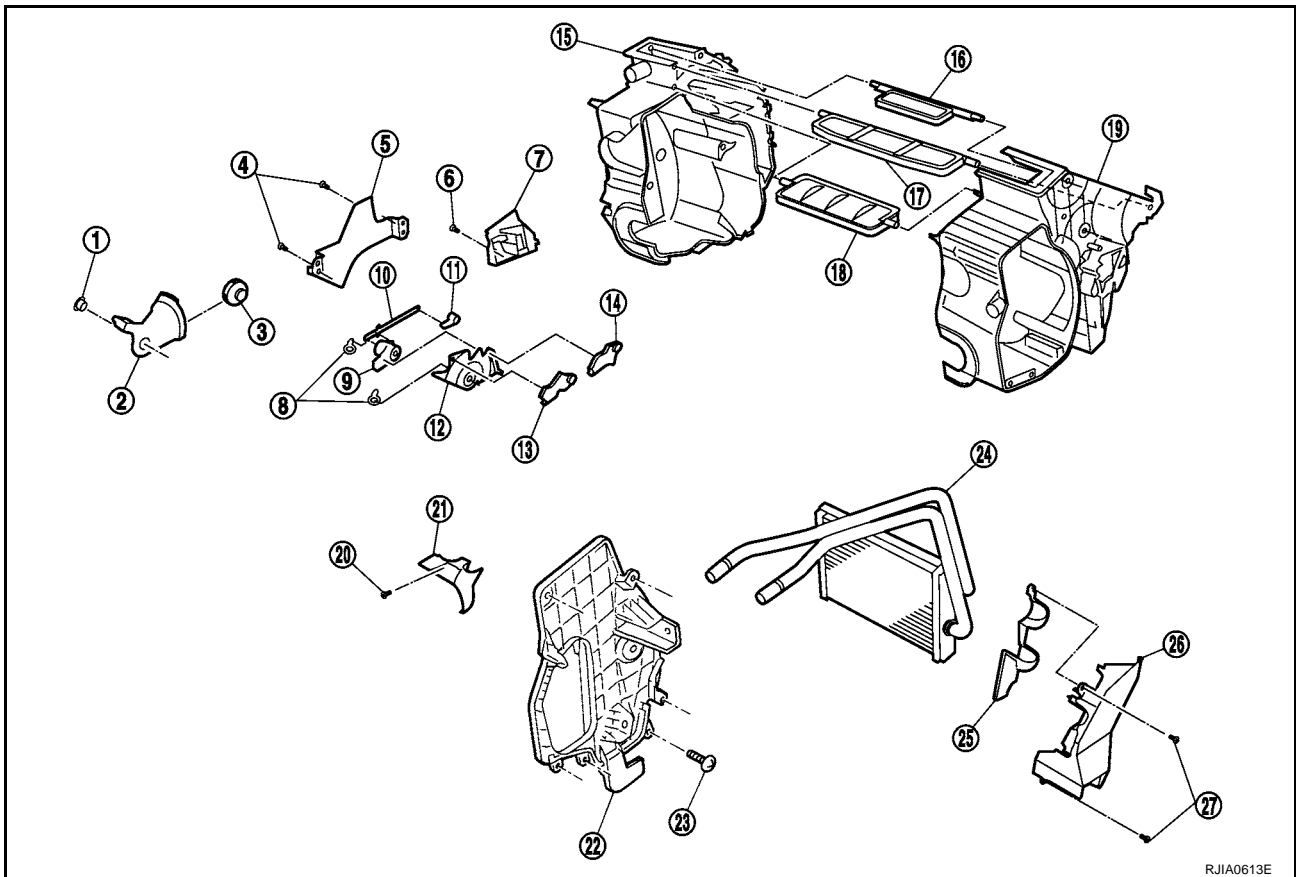
When filling radiator with coolant, refer to QR engine [CO-9, "Changing Engine Coolant"](#) , YD engine [CO-29, "Changing Engine Coolant"](#) .

Disassembly and Assembly

EJS001FA

NOTE:

This illustration is for RHD models. The layout for LHD models is symmetrically opposite.



- | | | |
|----------------------------|---------------------------|---------------------------|
| 1. Screw | 2. Air mix door link | 3. Air mix door gear |
| 4. Screw | 5. Cable bracket | 6. Screw |
| 7. Foot duct (right) | 8. Screw | 9. Ventilator door link 2 |
| 10. Ventilator door link 2 | 11. Ventilator door lever | 12. Main link |
| 13. Max cool door lever | 14. Defroster door lever | 15. Heater case (right) |
| 16. Defroster door | 17. Ventilator door | 18. Max cool door |
| 19. Heater case (left) | 20. Screw | 21. Heater pipe support |
| 22. Evaporator cover | 23. Screw | 24. Heater core |
| 25. Heater core cover | 26. Foot duct (left) | 27. Screw |

HEATER CORE

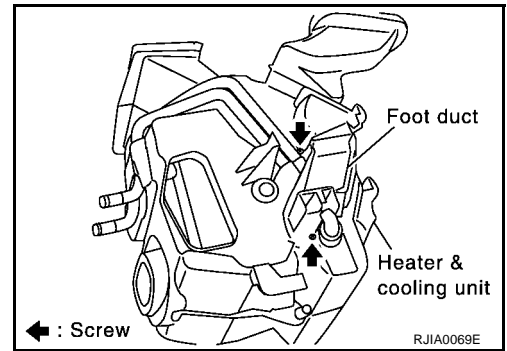
HEATER CORE

PFP:27140

Removal and Installation

EJS000XV

1. Remove the heater unit.
2. Remove the heater pipe support.
3. Remove the foot duct and heater core cover.
4. Remove the heater core from the heater unit.



MODE DOOR

MODE DOOR

PFP:27181

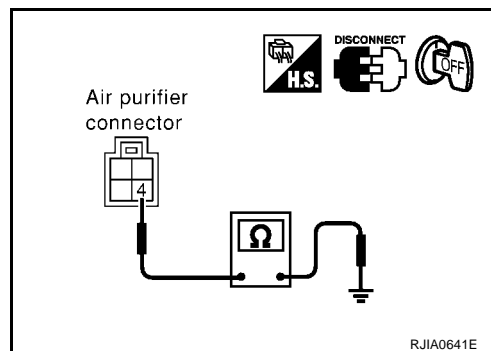
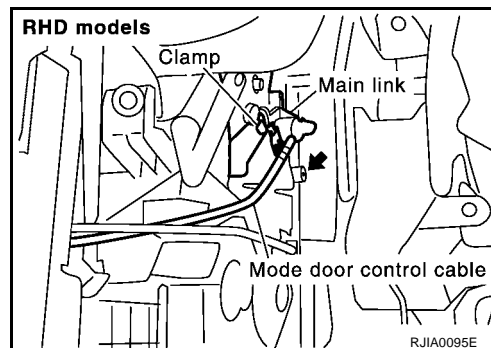
Control Linkage adjustment MODE DOOR CONTROL CABLE

EJS001DA

1. Turn the mode control dial to VENT position.
2. Move side link by hand and hold mode door in VENT position.
3. Pull on the cable cover in the direction of the arrow, then clamp it.

NOTE:

After positioning control cable, check that it operates properly.



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AIR MIX DOOR

AIR MIX DOOR

PFP:27180

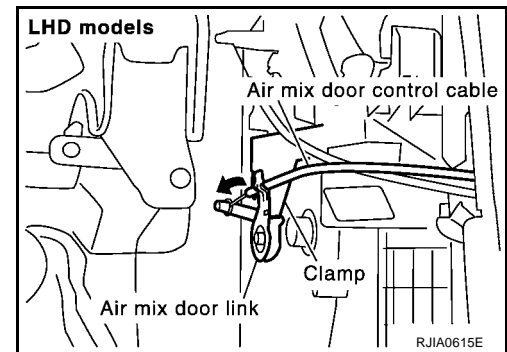
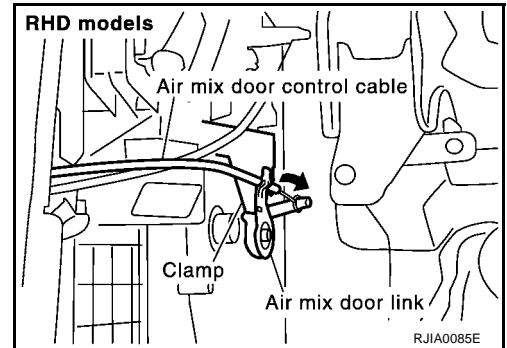
Control Linkage Adjustment AIR MIX DOOR CONTROL CABLE

EJS001DB

1. Turn the temperature control dial to full cold position.
2. Move air mix door lever by hand and hold it at the full cold position.
3. Pull on the cable cover in the direction of the arrow, then clamp it.

NOTE:

After positioning control cable, check that it operates properly.



DUCTS AND GRILLES

DUCTS AND GRILLES

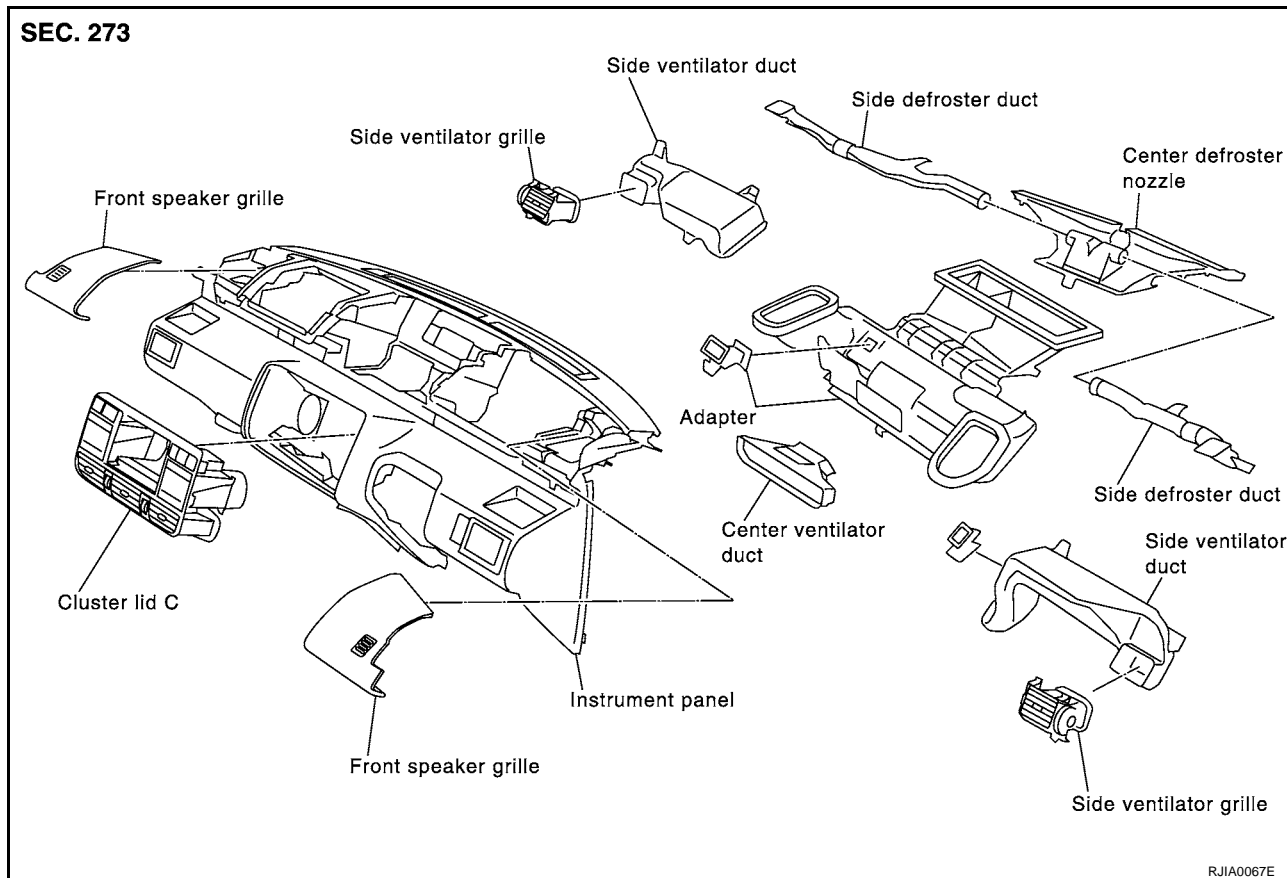
PFP:27860

Removal and Installation

EJS000XW

VENTILATOR DUCT, DEFROSTER NOZZLE AND DEFROSTER DUCTS

1. Remove the instrument panel.

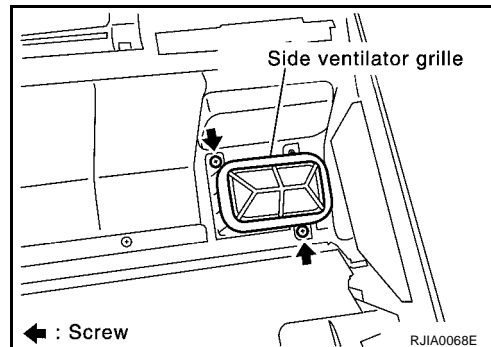


CENTER VENTILATOR GRILLE

1. Remove the cluster lid C. Refer to [IP-5, "Removal and Installation"](#).

SIDE VENTILATOR GRILLE

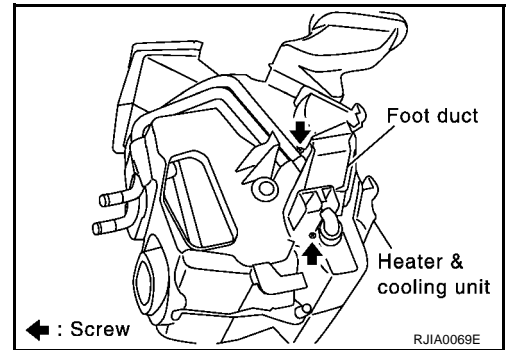
1. Remove the instrument panel. Refer to [IP-5, "Removal and Installation"](#).
2. Remove the side ventilator grille.



DUCTS AND GRILLES

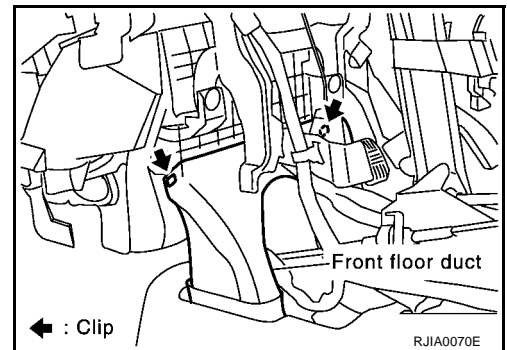
FOOT DUCT

1. Remove the heater unit. Refer to [MTC-24, "HEATER UNIT"](#) .
2. Remove the foot duct.



FLOOR DUCT

1. Remove the front seats. Refer to [SE-7, "FRONT SEAT"](#) .
2. Remove the instrument lower center panel. Refer to [IP-5, "Removal and Installation"](#) .
3. Remove the front floor duct.
4. Peel back the floor trim to a point where the floor duct is visible.
5. Remove the mounting screw and clip from the rear floor duct.
6. Remove the rear floor duct.



SEC. 273

