

A/C-HEATER SYSTEM TROUBLE SHOOTING - MANUAL

1990 Nissan 240SX

1990 Manual A/C-Heater Systems

240SX

NOTE: This article has been revised as specified in Technical

Service Bulletin TS89-160 Dated Nov. 30,1989.

MANUAL A/C-HEATER SYSTEM TROUBLESHOOTING

See MANUAL A/C-HEATER SYSTEM TROUBLESHOOTING CHART below and applicable figures.

MANUAL A/C-HEATER SYSTEM TROUBLESHOOTING CHART

1
2
3
4
5
6





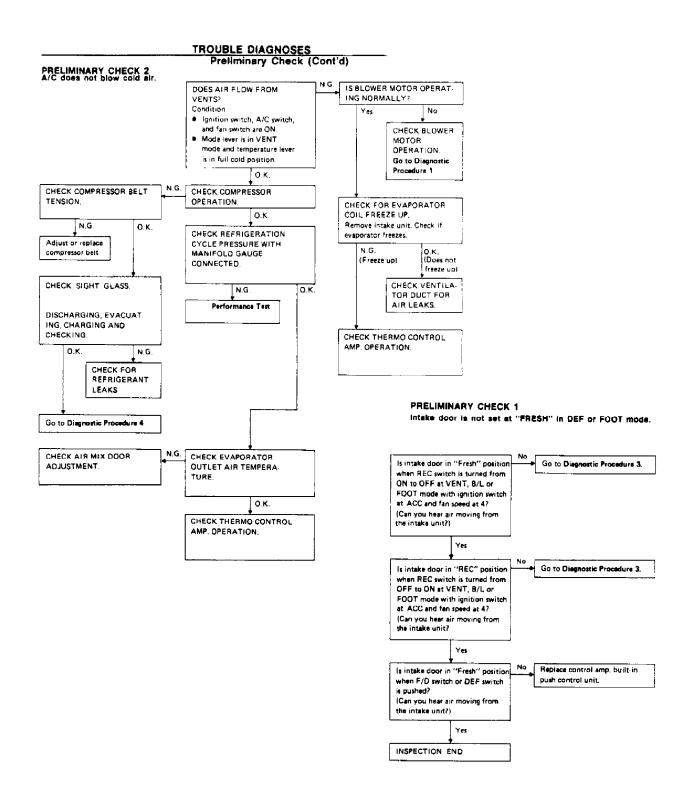


Fig. 1: Preliminary Check 1 Courtesy of Nissan Motor Co., U.S.A.





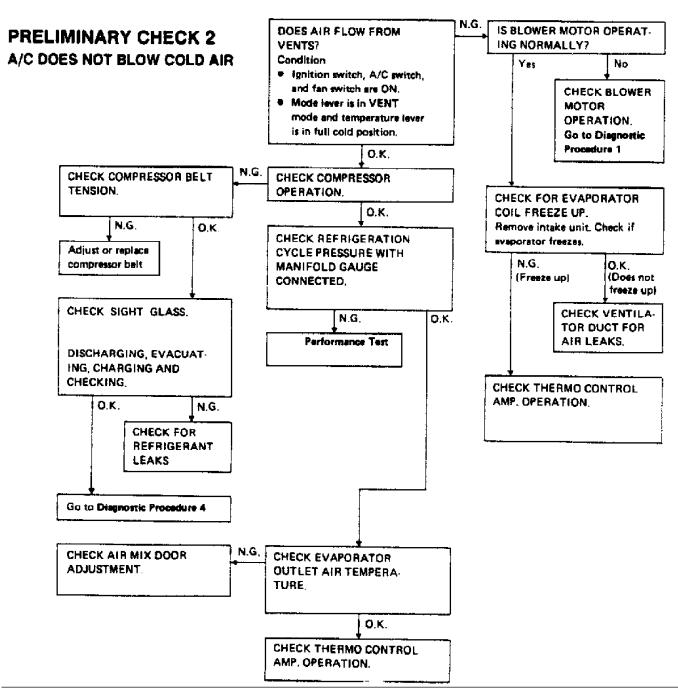


Fig. 2: Preliminary Check 2 Courtesy of Nissan Motor Co., U.S.A.





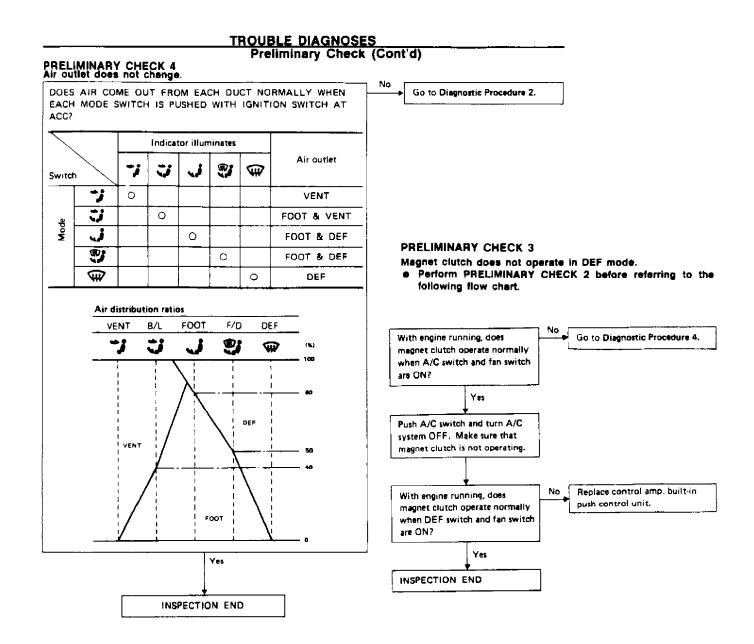


Fig. 3: Preliminary Check 3 Courtesy of Nissan Motor Co., U.S.A.





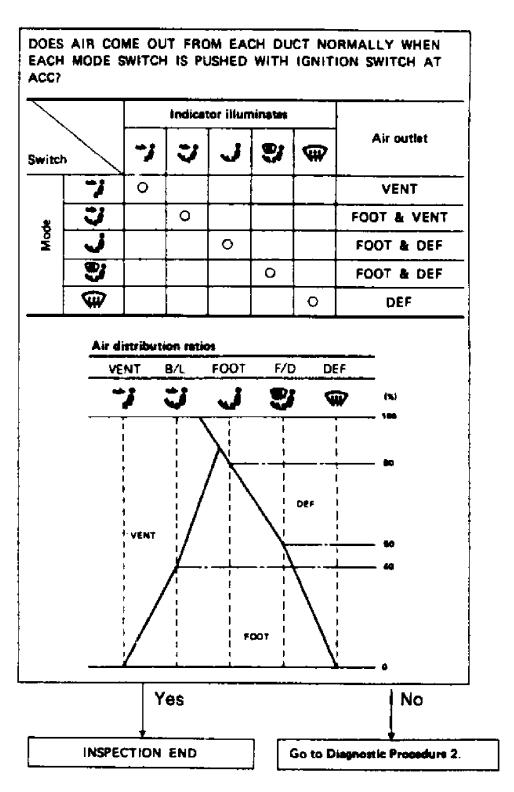


Fig. 4: Preliminary Check 4 Courtesy of Nissan Motor Co., U.S.A.





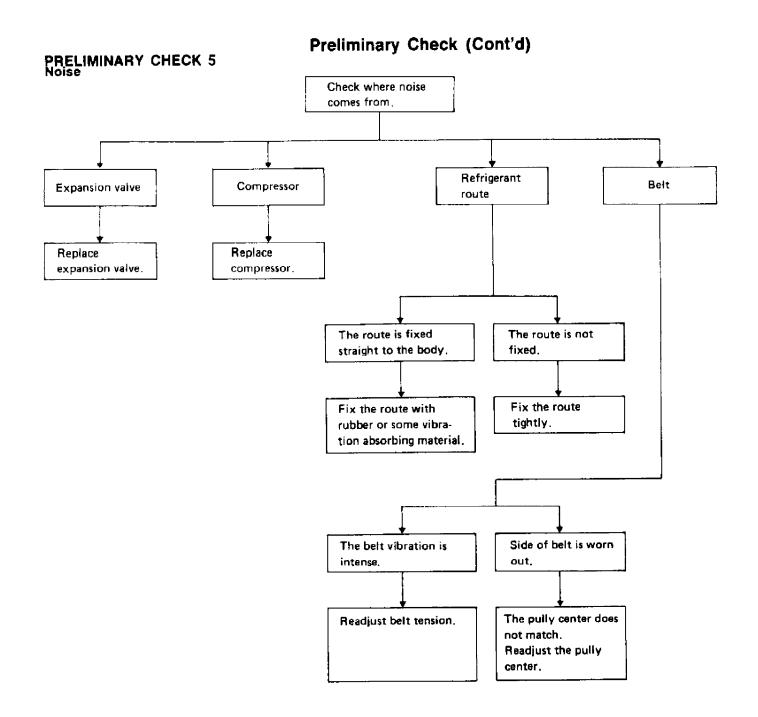
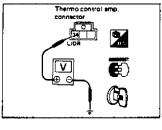
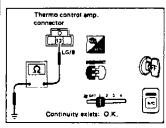


Fig. 5: Preliminary Check 5 Courtesy of Nissan Motor Co., U.S.A.









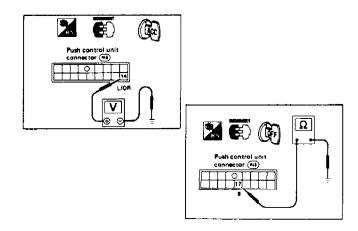


Fig. 6: Preliminary Check 6 Courtesy of Nissan Motor Co., U.S.A.

PRELIMINARY CHECK 6 POWER SUPPLY CIRCUIT CHECK FOR A/C SYSTEM

Thermo Control Amplifier Check

- 1. Disconnect thermo control amplifier harness connector.
- 2. Turn ignition ON. Using voltmeter, ensure battery voltage exists at connector terminal No. 34.
- 3. Turn ignition OFF. Turn A/C and fan switch ON. Using harness connector terminal No. 13 and ground.

Push Control Unit Check

- 1. Disconnect push control unit harness connector.
- 2. Turn ignition switch to ACC position.
- 3. Using voltmeter, ensure battery voltage exists at terminal $\mbox{No.}\ 14$ of harness connector.
 - 4. Turn ignition switch to OFF position.
- $\,$ 5. Using ohmmeter, ensure continuity exists between terminal No. 17 of harness connector and ground.

DIAGNOSTIC PROCEDURE 1 - BLOWER MOTOR DOES NOT ROTATE

See Fig. 7 to 9.





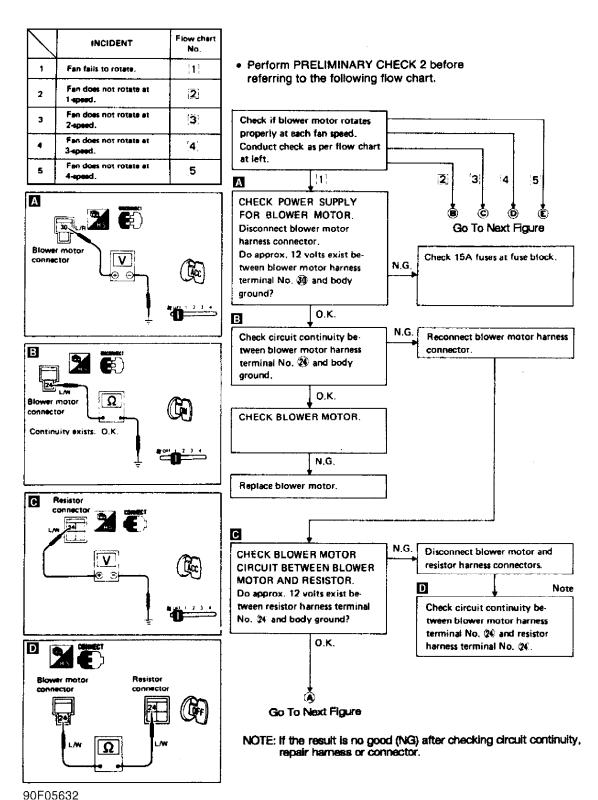


Fig. 7: Diagnostic Procedure 1 (1 of 3) Courtesy of Nissan Motor Co., U.S.A.





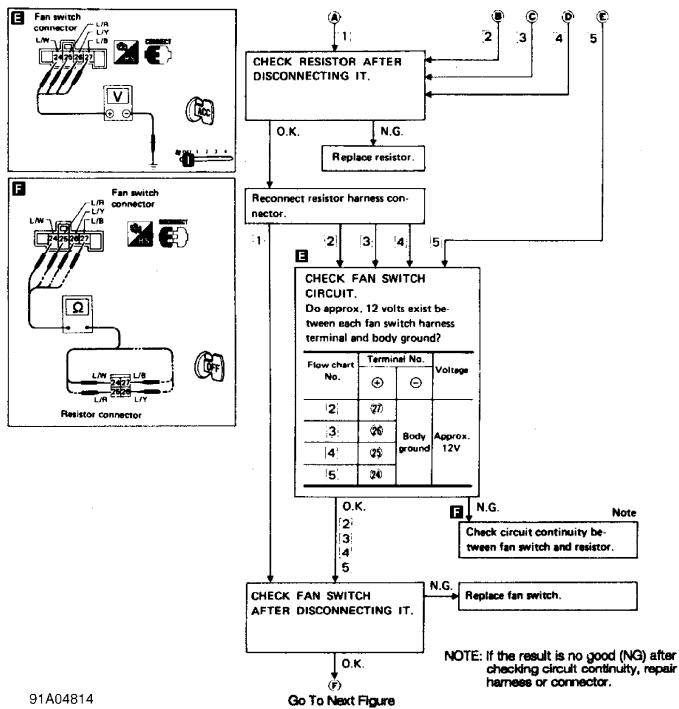
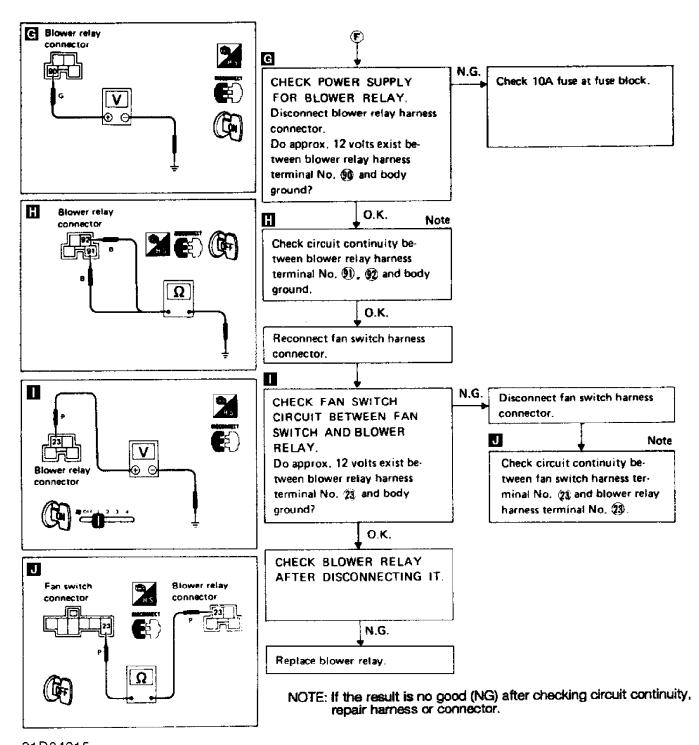


Fig. 8: Diagnostic Procedure 1 (2 of 3) Courtesy of Nissan Motor Co., U.S.A.







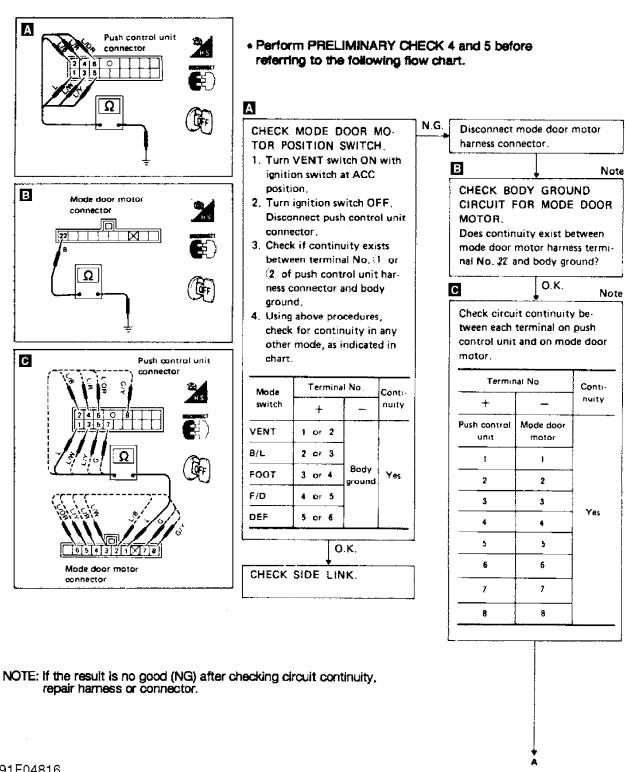
91D04815
Fig. 9: Diagnostic Procedure 1 (3 of 3)
Courtesy of Nissan Motor Co., U.S.A.

DIAGNOSTIC PROCEDURE 2 - AIR OUTLET DOES NOT CHANGE

See Fig. 10 and 11.







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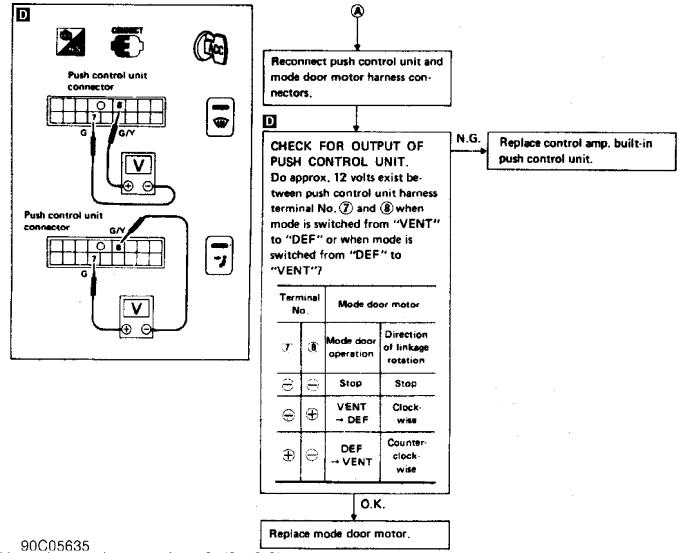
Fig. 10: Diagnostic Procedure 2 (1 of 2) Courtesy of Nissan Motor Co., U.S.A.

Perform PRELIMINARY CHECK 4 and 6 before referring to the following flow chart.



Go To Next Figure





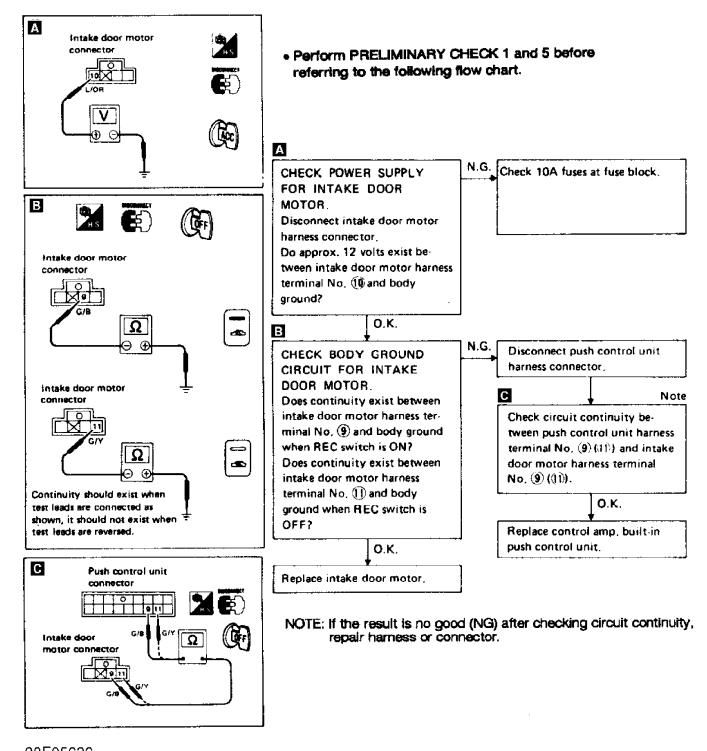
90C05635
Fig. 11: Diagnostic Procedure 2 (2 of 2)
Courtesy of Nissan Motor Co., U.S.A.

DIAGNOSTIC PROCEDURE 3 - INTAKE DOOR DOES NOT CHANGE

Intake Door Does Not Change In VENT, BI-LEVEL or FOOT Mode. See Fig. 12.







90E05636
Fig. 12: Diagnostic Procedure 3
Courtesy of Nissan Motor Co., U.S.A.

 $\mbox{\sc Perform PRELIMINARY CHECK 1}$ and 6 before referring to the following flow chart.





Compressor (Magnet) clutch does not engage with A/C & Fan switch on. See Figs. 13 to 17.

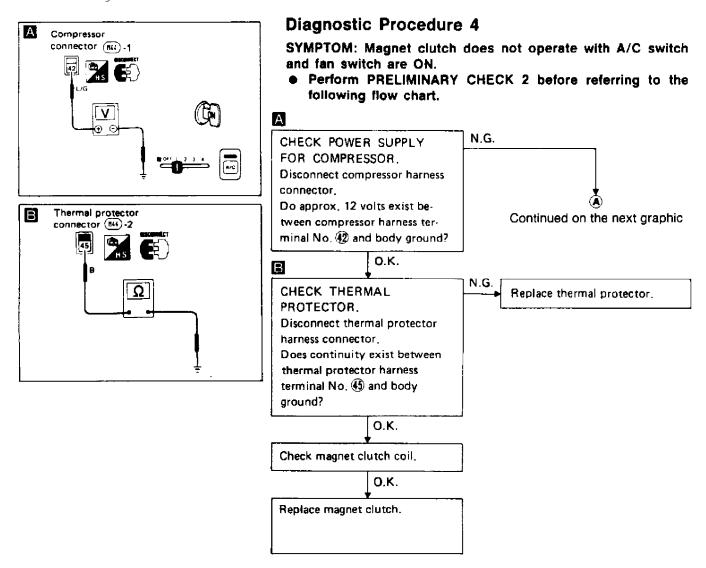


Fig. 13: Diagnostic Procedure 4 (1 of 5) Courtesy of Nissan Motor Co., U.S.A.





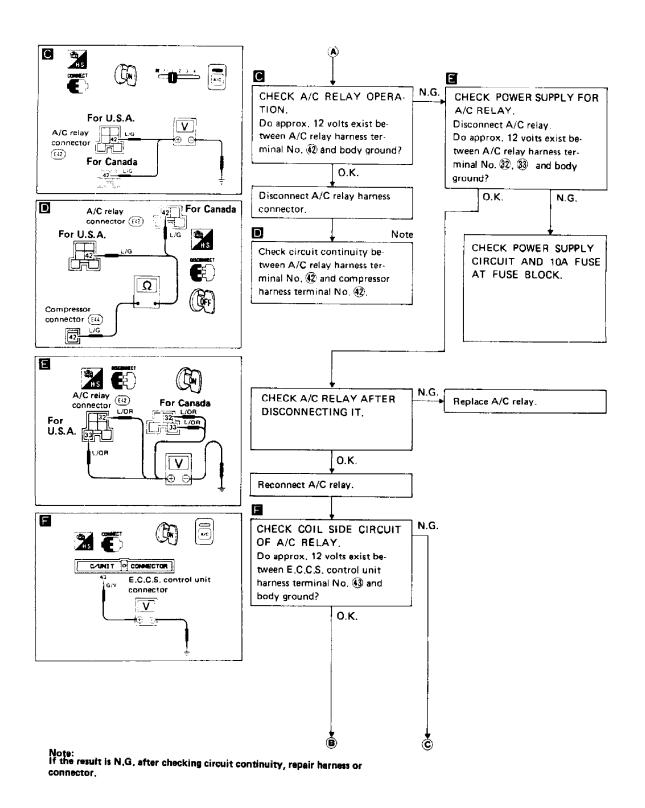


Fig. 14: Diagnostic Procedure 4 (2 of 5) Courtesy of Nissan Motor Co., U.S.A.





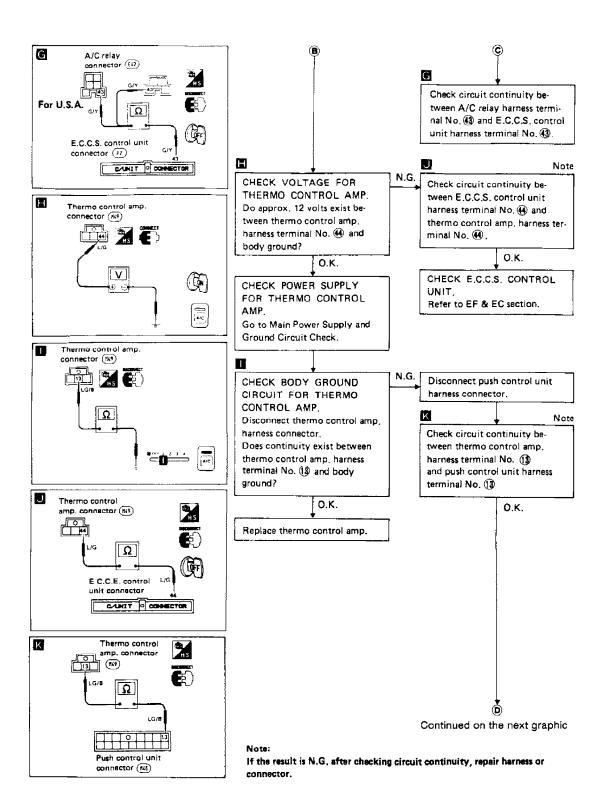


Fig. 15: Diagnostic Procedure 4 (3 of 5) Courtesy of Nissan Motor Co., U.S.A.





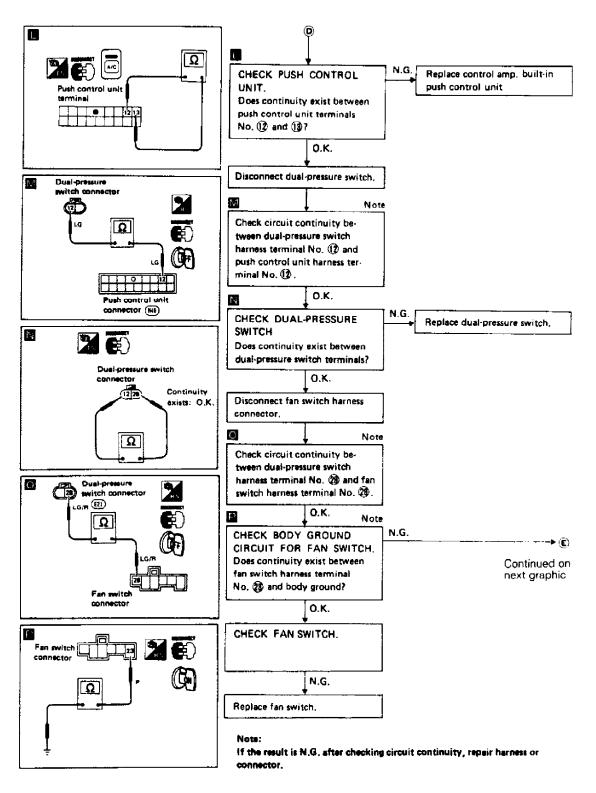


Fig. 16: Diagnostic Procedure 4 (4 of 5) Courtesy of Nissan Motor Co., U.S.A.





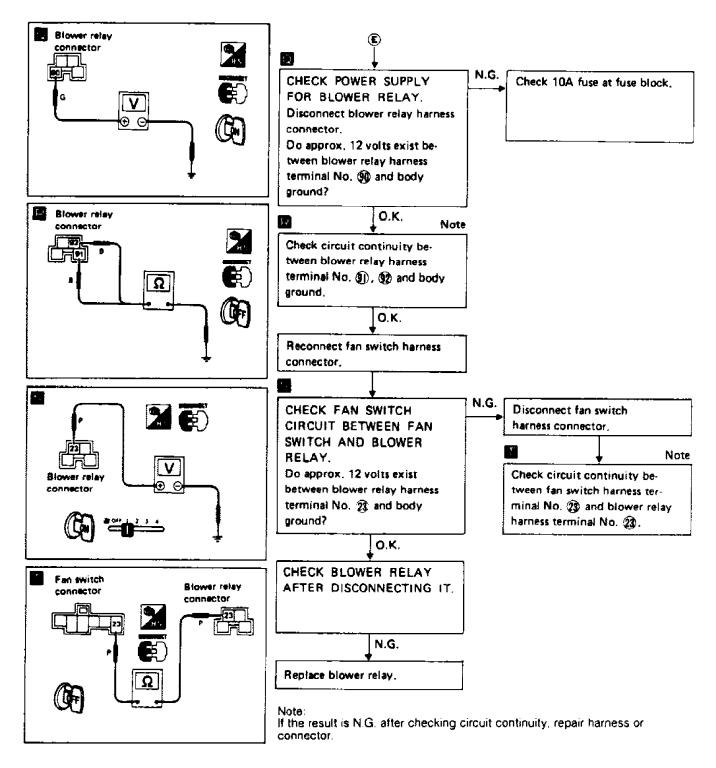


Fig. 17: Diagnostic Procedure 4 (5 of 5) Courtesy of Nissan Motor Co., U.S.A.

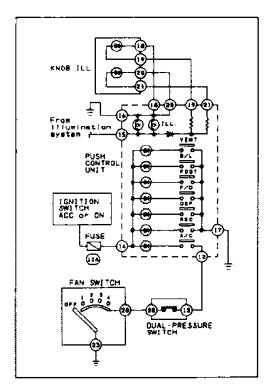
DIAGNOSTIC PROCEDURE 5 - PUSH CONTROL INDICATORS DO NOT

Illumination or indicators of Push Control Unit do not come





on. See Figs. 18 to 21.



 Perform PRELIMINARY CHECK 6 before referring to the following flow chart.

Turn ignition switch and lighting switch ON.

CHECK ILLUMINATION AND INDICATORS.

- Turn A/C, REC and fan switches ON.
- Push VENT, B/L, FOOT, F/D and DEF switches in order.
- Check for incidents and follow the repairing methods as shown:

			INCID					
ILL.	VENT	B/L	FOOT	F/D	DEF	REC	A/C	"How to repair"
×	0	0	0	0	0	0		Go to DIAGNOSTIC PROCEDURE 5-1
\setminus	0	0	0	٥	0	0	×	Go to DIAGNOSTIC PROCEDURE 5-2.
0	x	×	х	х	x	×		Go to DIAGNOSTIC PROCEDURE 5-3.
$ \overline{} $	Δ							Replace control amp, built-in push control unit.
0	×	x	x	x	х	x	0	Replace control amp, built-in- push control nit.
	х	х	x	х	x	×	0	Go to DIAGNOSTIC PROCEDURE 5-4.

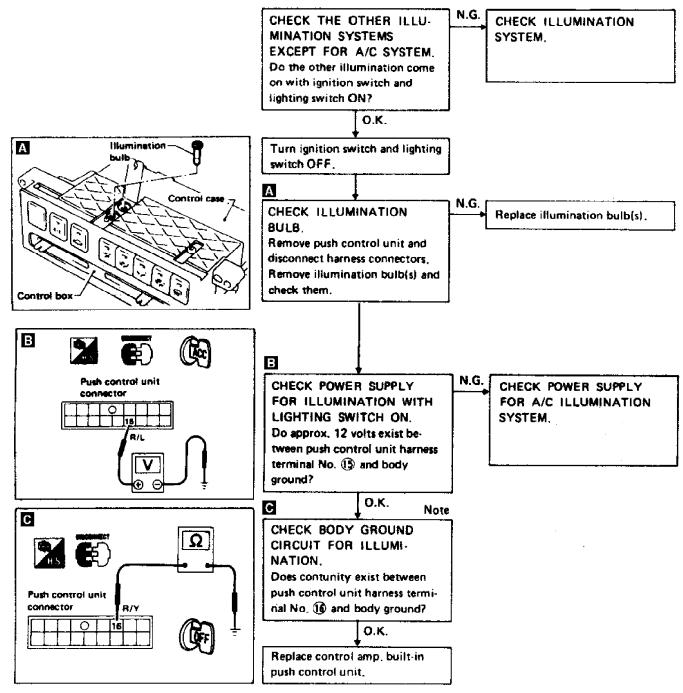
- O: Illumination or indicator comes on.
- X: Illumination or indicator does not come on.
- Δ: Some indicators for VENT, B/L, FOOT, F/D, DEF or REC come on.

Fig. 18: Diagnostic Procedure 5 (1 of 4) Courtesy of Nissan Motor Co., U.S.A.

 $\mbox{\sc Perform PRELIMINARY CHECK 6}$ before referring to the following flow chart.







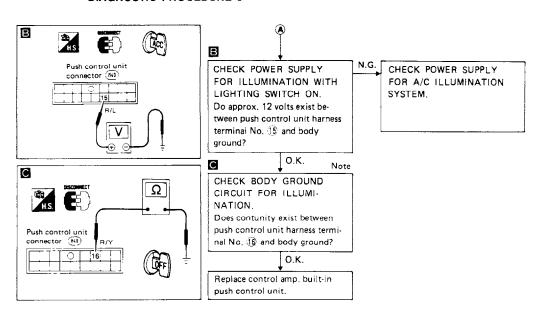
NOTE: If the result is no good (NG) after checking circuit continuity, repair harness or connector.

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Fig. 19: Diagnostic Procedure 5 (2 of 4)
Courtesy of Nissan Motor Co., U.S.A.





DIAGNOSTIC PROCEDURE 5



DIAGNOSTIC PROCEDURE 5-2

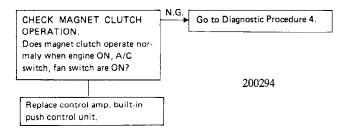


Fig. 20: Diagnostic Procedures 5 (3 of 4) Courtesy of Nissan Motor Co., U.S.A.





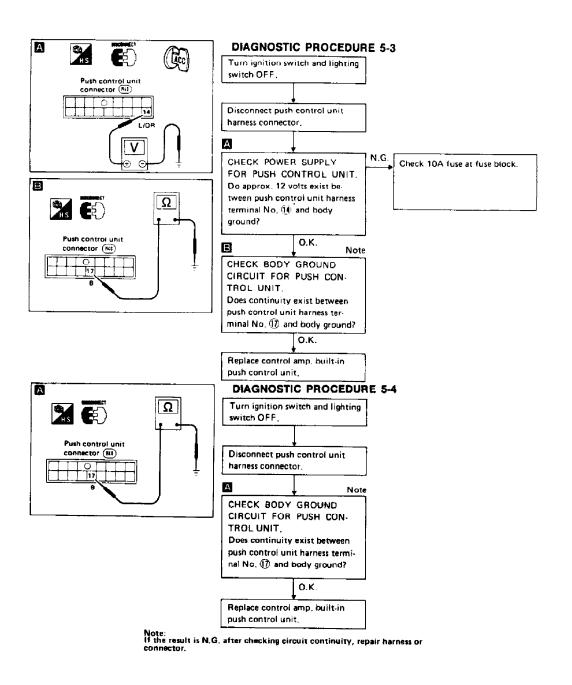


Fig. 21: Diagnostic Procedures 5 (4 of 4) Courtesy of Nissan Motor Co., U.S.A.

