

Your Ultimate Source for OEM Repair Manuals

FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

2024 Nissan Sentra Service and Repair Manual

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YES>>

Replace PTC heater. Refer to [Removal & Installation](#).

NO>>

INSPECTION END

Sample

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms	DTC detection condition	
B24C5-49	PTC heater start error	Diagnosis condition	Power switch ON
		Signal (terminal)	—
		Threshold	When the supply voltage input to the PTC heater is the specified voltage value or less
		Diagnosis delay time	1 seconds or more

POSSIBLE CAUSE

PTC heater

FAIL-SAFE

PTC heater operation is stopped

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

 With CONSULT

1. Power switch OFF.
2. Set the vehicle to READY.
3. Operate the air conditioning system.
4. Set the temperature to full hot.
5. Select “Self Diagnostic Result” mode of “HVAC” using CONSULT.

Is DTC detected?

YES>>

Refer to [Diagnosis Procedure](#).

NO-1>>

To check malfunction symptom before repair: Refer to [Intermittent Incident](#).

NO-2>>

Confirmation after repair: INSPECTION END

1. REPLACE PTC HEATER

Replace PTC heater. Refer to [Removal & Installation](#).

>>

INSPECTION END

Sample

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms	DTC detection condition	
		B24C7-98	PTC heater internal temperature sensor
Signal (terminal)	—		
Threshold	When the PTC heater circuit board internal temperature is 115°C (239°F) or more		
Diagnosis delay time	2 seconds or more		

POSSIBLE CAUSE

- PTC heater
- Blower motor system
- Air mix door motor system

FAIL-SAFE

PTC heater operation is stopped

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

 With CONSULT

1. Power switch OFF.
2. Set the vehicle to READY.
3. Operate the air conditioning system.
4. Set the temperature to full hot.
5. Select “Self Diagnostic Result” mode of “HVAC” using CONSULT.

Is DTC detected?

YES>>

Refer to [Diagnosis Procedure](#).

NO-1>>

To check malfunction symptom before repair: Refer to [Intermittent Incident](#).

NO-2>>

Confirmation after repair: INSPECTION END

1. CHECK BLOWER MOTOR SYSTEM

Check the blower motor system. Refer to [Diagnosis Procedure](#).

Is the inspection result normal?

YES>>

[GO TO 2.](#)

NO>>

Repair or replace malfunctioning parts.

2. CHECK AIR MIX DOOR MOTOR SYSTEM

Check the air mix door motor system. Refer to following DTC diagnosis procedure.

- Air mix door motor LH: Refer to [Diagnosis Procedure](#).
- Air mix door motor RH: Refer to [Diagnosis Procedure](#).

Is the inspection result normal?

YES>>

Replace PTC heater. Refer to [Removal & Installation](#).

NO>>

Repair or replace malfunctioning parts.

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms	DTC detection condition	
B24C8-1C	PTC heater high voltage power supply	Diagnosis condition	Vehicle is READY
		Signal (terminal)	—
		Threshold	When the supply voltage input to the PTC heater is the specified voltage value or less
		Diagnosis delay time	2 seconds or more

POSSIBLE CAUSE

PTC heater

FAIL-SAFE

PTC heater operation is stopped

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

 With CONSULT

1. Power switch OFF.
2. Set the vehicle to READY.
3. Operate the air conditioning system.
4. Set the temperature to full hot.
5. Select "Self Diagnostic Result" mode of "HVAC" using CONSULT.

Is DTC detected?

YES>>

Refer to [Diagnosis Procedure](#).

NO-1>>

To check malfunction symptom before repair: Refer to [Intermittent Incident](#).

NO-2>>

Confirmation after repair: INSPECTION END

1. REPLACE PTC HEATER

Replace PTC heater. Refer to [Removal & Installation](#).

>>

INSPECTION END

Sample

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms	DTC detection condition	
		Diagnosis condition	
B24D5-12	PTC heater high voltage circuit short	Diagnosis condition	Vehicle is READY
		Signal (terminal)	—
		Threshold	When the PTC heater high voltage circuit is shorted (29 A or more or exceeds 36.5 A for a moment)
		Diagnosis delay time	Less than 1 second

POSSIBLE CAUSE

PTC heater

FAIL-SAFE

PTC heater operation is stopped

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

 With CONSULT

1. Power switch OFF.
2. Set the vehicle to READY.
3. Operate the air conditioning system.
4. Set the temperature to full hot.
5. Select "Self Diagnostic Result" mode of "HVAC" using CONSULT.

Is DTC detected?

YES>>

Refer to [Diagnosis Procedure](#).

NO-1>>

To check malfunction symptom before repair: Refer to [Intermittent Incident](#).

NO-2>>

Confirmation after repair: INSPECTION END

1. REPLACE PTC HEATER

Replace PTC heater. Refer to [Removal & Installation](#).

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INSPECTION END

Sample