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2007 NISSAN Teana OEM Service and Repair Workshop Manual

Go to manual page

1. PERFORM DTC CONFIRMATION PROCEDURE

With CONSULT

1. Power switch ON and wait at least 2 seconds.
2. Check "Self diagnosis Results" of "HIGH VOLTAGE BATTERY" and "HIGH VOLTAGE BATTERY 2".

Is P1B01-12 detected?

YES>>

Refer to DTC Diagnosis Procedure.

NO-1>>

To check malfunction symptom before repair: Refer to Intermittent Incident.

NO-2>>

Confirmation after repair: INSPECTION END

1. CHECK CELL VOLTAGE DATA MONITOR

With CONSULT

1. Power switch ON.
2. Select "Data Monitor" of "HIGH VOLTAGE BATTERY".
3. Select "Cell condition 01-96".
4. Check that each cell is abnormal.

Is any cell abnormal?

YES>>

GO TO 2.

NO>>

Perform intermittent incident. Refer to Intermittent Incident.

2. CHECK CELL VOLTAGE DETECTION CIRCUIT

Check cell voltage circuit (harness connector between cell controller and module) corresponding to that cell is abnormal. Refer to Diagnosis Procedure.

NOTE:
For comparison of cell, module, and cell controller, Refer to Component Description.

Is the inspection result normal?

YES>>

GO TO 3.

NO>>

Repair or replace malfunctioning parts.

3. CHECK MODULE VOLTAGE

Check the voltage of the module corresponding to abnormal cell number. Refer to Component Inspection.

NOTE:
For comparison of cell, module, and cell controller, Refer to Component Description.

Is the inspection result normal?

YES>>

Replace cell controller corresponding to that cell is abnormal.Refer to Removal & Installation.

NO>>

Repair corresponding module.

- Refer to Disassembly & Assembly.

- Refer to Disassembly & Assembly.

SIEMD-7377484

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition	
P1B01	13	Cell voltage circuit	Diagnosis condition	Power switch ON
			Signal (terminal)	ASIC
			Threshold	When detecting open circuit of cell voltage measuring circuit
			Diagnosis delay time	2 seconds or less

POSSIBLE CAUSE

- Cell voltage detection circuit
- Cell (module)
- Cell controller

FAIL-SAFE

Pattern B: Driving output power limit, Charge stop, and EV system warning lamp illuminate

SIEMD-7377389

1. PERFORM DTC CONFIRMATION PROCEDURE

With CONSULT

1. Power switch ON and wait at least 2 seconds.
2. Check "Self diagnosis Results" of "HIGH VOLTAGE BATTERY" and "HIGH VOLTAGE BATTERY 2".

Is P1B01-13 detected?

YES>>

Refer to DTC Diagnosis Procedure.

NO-1>>

To check malfunction symptom before repair: Refer to Intermittent Incident.

NO-2>>

Confirmation after repair: INSPECTION END

1. CHECK CELL VOLTAGE DATA MONITOR

With CONSULT

1. Power switch ON.
2. Select "Data Monitor" of "HIGH VOLTAGE BATTERY".
3. Select "Cell condition 01-96".
4. Check that each cell is abnormal.

Is any cell abnormal?

YES>>

GO TO 2.

NO>>

Perform intermittent incident. Refer to Intermittent Incident.

2. CHECK CELL VOLTAGE DETECTION CIRCUIT

Check cell voltage circuit (harness connector between cell controller and module) corresponding to that cell is abnormal. Refer to Diagnosis Procedure.

NOTE:
For comparison of cell, module, and cell controller, Refer to Component Description.

Is the inspection result normal?

YES>>

GO TO 3.

NO>>

Repair or replace malfunctioning parts.

3. CHECK MODULE VOLTAGE

Check the voltage of the module corresponding to abnormal cell number. Refer to Component Inspection.

NOTE:
For comparison of cell, module, and cell controller, Refer to Component Description.

Is the inspection result normal?

YES>>

Replace cell controller corresponding to that cell is abnormal.Refer to Removal & Installation.

NO>>

Repair corresponding module.

- Refer to Disassembly & Assembly.

- Refer to Disassembly & Assembly.

SIEMD-7377063

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition	
P1B01	62	Cell voltage circuit	Diagnosis condition	Power switch ON
			Signal (terminal)	Cell voltage
			Threshold	With the power switch ON and no load condition, the difference between the maximum voltage and minimum voltage exceeds the allowable range.
			Diagnosis delay time	2 seconds or less

POSSIBLE CAUSE

- Cell voltage detection circuit
- Cell (module)

FAIL-SAFE

Pattern C: Driving output power limit, Charge limit, and EV system warning lamp illuminate

SIEMD-7377244

1. PERFORM DTC CONFIRMATION PROCEDURE

With CONSULT

1. Power switch ON and wait at least 2 seconds.
2. All high voltage load (A/C, PTC heater, etc.) are OFF.
3. Check "Self Diagnosis Results" of "HIGH VOLTAGE BATTERY" and "HIGH VOLTAGE BATTERY 2".

Is P1B01-62 detected?

YES>>

Refer to DTC Diagnosis Procedure.

NO-1>>

To check malfunction symptom before repair: Refer to Intermittent Incident.

NO-2>>

Confirmation after repair: INSPECTION END