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.

2007 NISSAN Tiida/Versa Sedan OEM Service and Repair Workshop Manual

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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 P1BA0-16 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 POWER SUPPLY AND GROUND CIRCUIT

Check LBC power supply and ground circuit. Refer to Diagnosis Procedure.

Is the inspection result normal?

YES>>

Perform intermittent incident. Refer to Intermittent Incident.

NO>>

Repair or replace malfunctioning parts.

SIEMD-7377287

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition	
P1BA1	12	Cell voltage circuit	Diagnosis condition	Power switch ON
			Signal (terminal)	ASIC
			Threshold	When short circuit of cell voltage measuring circuit is detected
			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-7377446

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 P1BA1-12 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 CONTROLLER STATUS

With CONSULT

1. Power switch ON.
2. Check "Data Monitor" of "HIGH VOLTAGE BATTERY" and then record the following items;
    - "Cell controller status 01"
    - "Cell controller status 02"
    - "Cell controller status 03"
    - "Cell controller status 04"
    - "Cell controller status 05"
    - "Cell controller status 06"
    - "Cell controller status 07"
    - "Cell controller status 08"

>>

GO TO 2.

2. CHECK CELL VOLTAGE DETECTION CIRCUIT

Check cell voltage circuit (harness connector between cell controller and module) to which cell controller that indicates abnormality in the recorded "Cell controller status" is connected.

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 CELL VOLTAGE

Check cell voltage included in the module to which cell controller that indicates abnormality in the recorded "Cell controller status" is connected.

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

Is there any cell that voltage is 0.5 V or less?

YES>>

Replace corresponding module.

- Refer to Disassembly & Assembly.
- Refer to Disassembly & Assembly.

NO>>

Replace cell controller which indicates abnormality. Refer to Removal & Installation.

SIEMD-7377057

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition	
P1BA1	13	Cell voltage circuit	Diagnosis condition	Power switch ON
			Signal (terminal)	ASIC
			Threshold	When open circuit of cell voltage measuring circuit is detected
			Diagnosis delay time	2 seconds or less

POSSIBLE CAUSE

Cell voltage detection circuit

FAIL-SAFE

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

SIEMD-7377061

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 P1BA1-13 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 CONTROLLER STATUS

With CONSULT

1. Power switch ON.
2. Check "Data Monitor" of "HIGH VOLTAGE BATTERY" and then record the following items;
    - "Cell controller status 01"
    - "Cell controller status 02"
    - "Cell controller status 03"
    - "Cell controller status 04"
    - "Cell controller status 05"
    - "Cell controller status 06"
    - "Cell controller status 07"
    - "Cell controller status 08"

>>

GO TO 2.

2. CHECK CELL VOLTAGE DETECTION CIRCUIT

Check cell voltage circuit (harness connector between cell controller and module) to which cell controller that indicates abnormality in the recorded "Cell controller status" is connected.

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 CELL VOLTAGE

Check cell voltage included in the module to which cell controller that indicates abnormality in the recorded "Cell controller status" is connected.

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

Is there any cell that voltage is 0.5 V or less?

YES>>