

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 Primera Sedan OEM Service and Repair Workshop Manual

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1. PERFORM DTC CONFIRMATION PROCEDURE

 With CONSULT

1. Power switch ON.
2. Erase DTC.



NOTE:

Erase DTC in order first "HIGH VOLTAGE BATTERY 2" then next "HIGH VOLTAGE BATTERY".

3. Power switch OFF and wait at least 5 minute.
4. Perform DTC confirmation procedure again. Refer to [Confirmation Procedure](#).

Is P1B12-12 detected?

YES>>

[GO TO 2.](#)

NO>>

INSPECTION END

2. CHECK CELL CONTROLLER STATUS (DATA MONITOR)

Select "Data Monitor" of "HIGH VOLTAGE BATTERY" and then check 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"

Is "NG" indicated?

YES>>

Replace cell controller which indicates abnormality (Refer to [Removal & Installation](#).), and then [GO TO 3.](#)

NO>>

Replace Li-ion battery controller. Refer to [Removal & Installation](#).

3. ASSEMBLY AND INSTALLATION OF LI-ION BATTERY

Assemble and install Li-ion battery.

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4. PERFORM DTC CONFIRMATION PROCEDURE AGAIN

 With CONSULT

1. Power switch ON.
2. Erase DTC.



NOTE:

Erase DTC in order first "HIGH VOLTAGE BATTERY 2" then next "HIGH VOLTAGE BATTERY".

3. Power switch OFF and wait at least 5 minute.
4. Perform DTC confirmation procedure again. Refer to [Confirmation Procedure](#).

Is P1B12-12 detected?

YES>>

Replace Li-ion battery controller, all cell controllers, and harness between Li-ion battery controller and cell controller. (Never replace parts which replaced during step 2.) Refer to [Removal & Installation](#).

NO>>

INSPECTION END

Sample

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition	
P1B12	13	ASIC	Diagnosis condition	Power switch ON
			Signal (terminal)	ASIC
			Threshold	When malfunction of cell voltage adjusting circuit is detected
			Diagnosis delay time	2 seconds or less

POSSIBLE CAUSE

- Cell controller (ASIC)
- Cell voltage detection circuit

FAIL-SAFE

Pattern D: EV system warning lamp illuminate

Sample

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 P1B12-13 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

Sample

1. PERFORM DTC CONFIRMATION PROCEDURE

 With CONSULT

1. Power switch ON.
2. Erase DTC.



NOTE:

Erase DTC in order first "HIGH VOLTAGE BATTERY 2" then next "HIGH VOLTAGE BATTERY".

3. Power switch OFF and wait at least 5 minute.
4. Perform DTC confirmation procedure again. Refer to [Confirmation Procedure](#).

Is P1B12-13 detected?

YES>>

[GO TO 2.](#)

NO>>

INSPECTION END

2. CHECK CELL CONTROLLER STATUS (DATA MONITOR)

Select "Data Monitor" of "HIGH VOLTAGE BATTERY" and then check 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"

Is "NG" indicated?

YES>>

Replace cell controller which indicates abnormality (Refer to [Removal & Installation](#).), and then [GO TO 3.](#)

NO>>

Replace Li-ion battery controller. Refer to [Removal & Installation](#).

3. ASSEMBLY AND INSTALLATION OF LI-ION BATTERY

Assemble and install Li-ion battery.

>>

4. PERFORM DTC CONFIRMATION PROCEDURE AGAIN

 With CONSULT

1. Power switch ON.
2. Erase DTC.



NOTE:

Erase DTC in order first "HIGH VOLTAGE BATTERY 2" then next "HIGH VOLTAGE BATTERY".

3. Power switch OFF and wait at least 5 minute.
4. Perform DTC confirmation procedure again. Refer to [Confirmation Procedure](#).

Is P1B12-13 detected?

YES>>

Replace Li-ion battery controller, all cell controllers, and harness between Li-ion battery controller and cell controller. (Never replace parts which replaced during step 2.) Refer to [Removal & Installation](#).

NO>>

INSPECTION END

Sample

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition	
P1B12	38	ASIC	Diagnosis condition	Power switch ON
			Signal (terminal)	ASIC
			Threshold	When malfunction of cell voltage detection DIC is detected
			Diagnosis delay time	2 seconds or less

POSSIBLE CAUSE

Cell controller (ASIC)

FAIL-SAFE

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

Sample

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 P1B12-38 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

Sample

1. PERFORM DTC CONFIRMATION PROCEDURE

 With CONSULT

1. Power switch ON.
2. Erase DTC.



NOTE:

Erase DTC in order first "HIGH VOLTAGE BATTERY 2" then next "HIGH VOLTAGE BATTERY".

3. Power switch OFF and wait at least 5 minute.
4. Perform DTC confirmation procedure again. Refer to [Confirmation Procedure](#).

Is P1B12-38 detected?

YES>>

[GO TO 2.](#)

NO>>

INSPECTION END

2. CHECK CELL CONTROLLER STATUS (DATA MONITOR)

Select "Data Monitor" of "HIGH VOLTAGE BATTERY" and then check 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"

Is "NG" indicated?

YES>>

Replace cell controller which indicates abnormality (Refer to [Removal & Installation](#).), and then [GO TO 3.](#)

NO>>

Replace Li-ion battery controller. Refer to [Removal & Installation](#).

3. ASSEMBLY AND INSTALLATION OF LI-ION BATTERY

Assemble and install Li-ion battery.

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