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2007 NISSAN XTerra OEM Service and Repair Workshop Manual

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SIEMD-7377436

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition	
P1B04	62	Module temperature sensor	Diagnosis condition	Power switch ON
			Signal (terminal)	Module temperature sensor temperature
			Threshold	Deviation in temperature characteristics between less than half of module temperature sensors.
			Diagnosis delay time	2 seconds or less

POSSIBLE CAUSE

- Module temperature sensor
- Module temperature sensor circuit
- Cell controller

FAIL-SAFE

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

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 P1B04-62 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

1. CHECK BATTERY PACK TEMPERATURE SENSOR STATE

With CONSULT

1. Power switch ON.
2. Select "Data Monitor" of "HIGH VOLTAGE BATTERY" and record "Battery pack temp status".

Is abnormality of "Open / Short to wire" or record of "Short to ground" displayed?

YES>>

GO TO 2.

NO>>

GO TO 3.

2. CHECK MODULE TEMPERATURE SENSOR CIRCUIT.

Check each module temperature sensor circuit (harness connector between cell controller and module).Refer to Diagnosis Procedure.

Is the inspection result normal?

YES>>

GO TO 3.

NO>>

Repair or replace malfunctioning parts.

3. CHECK MODULE TEMPERATURE SENSOR

Check module temperature sensor. Refer to Diagnosis Procedure.

Is the inspection result normal?

YES>>

Replace cell controller. Refer to Removal & Installation.

NO>>

Repair Corresponding module.

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

SIEMD-7377325

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition	
P1B05	11	Module temperature sensor	Diagnosis condition	Power switch ON
			Signal (terminal)	Module temperature sensor voltage
			Threshold	When short circuit is detected in more than half of module temperature sensor circuits.
			Diagnosis delay time	2 seconds or less

POSSIBLE CAUSE

- Module temperature sensor
- Module temperature sensor circuit
- Cell controller

FAIL-SAFE

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

SIEMD-7377480

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 P1B05-11 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 BATTERY PACK TEMPERATURE SENSOR STATE

With CONSULT

1. Power switch ON.
2. Select "Data Monitor" of "HIGH VOLTAGE BATTERY" and record "Battery pack temp status".

Is abnormality of "Open / Short to wire" or record of "Short to ground" displayed?

YES>>

GO TO 2.

NO>>

GO TO 3.

2. CHECK MODULE TEMPERATURE SENSOR CIRCUIT.

Check each module temperature sensor circuit (harness connector between cell controller and module).Refer to Diagnosis Procedure.

Is the inspection result normal?

YES>>

GO TO 3.

NO>>

Repair or replace malfunctioning parts.

3. CHECK MODULE TEMPERATURE SENSOR

Check module temperature sensor. Refer to Diagnosis Procedure.

Is the inspection result normal?

YES>>

Replace cell controller. Refer to Removal & Installation.

NO>>

Repair Corresponding module.

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

SIEMD-7377490

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition	
P1B05	15	Module temperature sensor	Diagnosis condition	Power switch ON
			Signal (terminal)	Module temperature sensor voltage
			Threshold	When open circuit is detected in more than half of module temperature sensor circuits.
			Diagnosis delay time	2 seconds or less

POSSIBLE CAUSE

- Module temperature sensor
- Module temperature sensor circuit
- Cell controller

FAIL-SAFE

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

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 P1B05-15 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

SIEMD-7377332

1. CHECK BATTERY PACK TEMPERATURE SENSOR STATE

With CONSULT

1. Power switch ON.
2. Select "Data Monitor" of "HIGH VOLTAGE BATTERY" and record "Battery pack temp status".

Is abnormality of "Open / Short to wire" or record of "Short to ground" displayed?

YES>>

GO TO 2.

NO>>

GO TO 3.

2. CHECK MODULE TEMPERATURE SENSOR CIRCUIT.

Check each module temperature sensor circuit (harness connector between cell controller and module).Refer to Diagnosis Procedure.

Is the inspection result normal?

YES>>

GO TO 3.

NO>>

Repair or replace malfunctioning parts.

3. CHECK MODULE TEMPERATURE SENSOR

Check module temperature sensor. Refer to Diagnosis Procedure.

Is the inspection result normal?

YES>>

Replace cell controller. Refer to Removal & Installation.

NO>>

Repair Corresponding module.

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