

# 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 X-Trail (T31) OEM Service and Repair Workshop Manual

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**DTC DETECTION LOGIC**

DTC		CONSULT screen terms	DTC detection condition	
P1BB4	98	Battery pack temperature	Diagnosis condition	Power switch ON
			Signal (terminal)	Module temperature sensor temperature
			Threshold	When battery (battery pack) temperature is abnormally high
			Diagnosis delay time	More than 2 seconds continuously

**POSSIBLE CAUSE**

Battery pack

**FAIL-SAFE**

Pattern A: No driving, Charge stop, and EV system warning lamp illuminate

Sample

## 1. PERFORM DTC CONFIRMATION PROCEDURE

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 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 P1BB4-98 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. REPLACE LI-ION BATTERY ASSEMBLY.

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When "P1BB4-98 is detected, replace Li-Ion battery as assembly.

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

Sample

## DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition	
P1B04	11	Module temperature sensor	Diagnosis condition	Power switch ON
			Signal (terminal)	Module temperature sensor voltage
			Threshold	When short circuit is detected in less 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

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 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 P1B04-11 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

Sample

## 1. CHECK BATTERY PACK TEMPERATURE SENSOR STATE

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 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.

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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

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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](#).

## DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition	
P1B04	15	Module temperature sensor	Diagnosis condition	Power switch ON
			Signal (terminal)	Module temperature sensor voltage
			Threshold	When open circuit is detected in less 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

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 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 P1B04-15 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

Sample

## 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](#).