

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 (T30) OEM Service and Repair Workshop Manual

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DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition	
P1B20	87	Relay 4 control circuit	Diagnosis condition	Power switch ON
			Signal (terminal)	CAN communication signal
			Threshold	When data error of CAN communication signal from CPLC is detected
			Diagnosis delay time	More than 2 seconds continuously

POSSIBLE CAUSE

- CAN communication circuit
- CPLC

FAIL-SAFE

Pattern D: 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 P1B20-87 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. CAN COMMUNICATION SYSTEM DIAGNOSIS

Perform trouble diagnosis for CAN communication system. Refer to [Trouble Diagnosis Flow Chart](#).

Is the inspection result normal?

YES>>

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NO>>

Repair or replace malfunctioning parts.

2. PERFORM DTC CONFIRMATION PROCEDURE AGAIN

 With CONSULT

1. Power switch ON.
2. Erase DTC.
3. Perform DTC confirmation procedure again. Refer to [Confirmation Procedure](#).

Is P1B20-87 detected?

YES>>

Replace CPLC. Refer to [CPLC : Removal & Installation](#).

NO>>

INSPECTION END

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition	
P1B0C	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

 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 P1B0C-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.

When "P1B0C-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	
P1B0C	FB	Battery pack temperature	Diagnosis condition	Power switch ON
			Signal (terminal)	Module temperature sensor temperature
			Threshold	When temperature of module temperature sensor exceeds available temperature range.
			Diagnosis delay time	More than 2 seconds continuously

POSSIBLE CAUSE

Battery pack

FAIL-SAFE

Pattern C: Driving output power limit, Charge limit, 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 P1B0C-FB 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 DTC DETECTION OF MODULE TEMPERATURE SENSOR SYSTEM

 With CONSULT

1. Power switch ON and wait at least 2 seconds.
2. Check "Self Diagnostic Results" of "HIGH VOLTAGE BATTERY".
3. Check if P1B0C-98 which includes past abnormality is detected.

Is corresponding DTC detected?

YES>>

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

NO>>

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2. 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. Perform DTC confirmation procedure again. Refer to [Confirmation Procedure](#).

Is P1B0C-FB detected?

YES>>

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

NO>>

INSPECTION END