

# Your Ultimate Source for OEM Repair Manuals

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## 2004 NISSAN X-Trail (T30) OEM Service and Repair Workshop Manual

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Terminal No. (Wire Color)		Description		Condition	Value
+	-	Signal name	Input/Output		
(GR)					

Sample


**NOTE:**

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor item	Condition		Display value
Steering torque	Vehicle to READY	Not steering	Approx. 0 Nm
		Right turn	Negative value (Nm)
		Left turn	Positive value (Nm)
Demanded motor current	Vehicle to READY	Not steering	0.5 A or less
		Right or left turn	100 A or less
Assist level	Vehicle to READY		99%*1
Vehicle speed for control	Vehicle stopped		Approx. 0 kph
	While driving		indication on speedometer *2 (inside of ±10%)
Electric power steering warning	Vehicle to READY	EPS system: Normal	No error
		EPS system: Not used	Error 1
		EPS system: Malfunction	Error 2
Demanded assistance torque	Vehicle to READY	Not steering	Approx. 0 Nm
		Right turn	Negative value (Nm)
		Left turn	Positive value (Nm)
Measured motor current	Vehicle to READY	Not steering	Approx. 0 A
		Right or left turn	Displays consumption current of EPS motor
ECU temperature	Auto ACC ON or vehicle to READY		Displays temperature of power steering control module
Battery voltage	Auto ACC ON		10.5 - 16 V
Rack end learning status (Right)	Auto ACC ON	RES (steering turning angle) learning completed	Complete
		RES (steering turning angle) learning	Incomplete
Rack end learning status (Left)	Auto ACC ON	RES (steering turning angle) learning completed	Complete
		RES (steering turning angle) learning	Incomplete
Vehicle speed	Vehicle stopped		Approx. 0 kph
	While driving		indication on speedometer *2 (inside of ±10%)
Engine status	Vehicle to READY	Traction motor: Stopping	Stop
		Traction motor: Waiting for drive	Reserved
		Traction motor: Driving	Running
		Traction motor: Starting	Stating
Parking assist status	Vehicle to READY	Parking assist: Inactive	Inactive
		Parking assist: Active	Active

Monitor item	Condition		Display value
Lane keep assist status	Vehicle to READY	LDW/LDP: Inactive	Inactive
		LDW/LDP: Active	Active
ProPILOT status	Vehicle to READY	ProPILOT: Inactive	Inactive
		ProPILOT: Active	Active

\*1: Normally displays 99%. In case of an excessive stationary steering, the assist curvature gradually falls. However, it returns to 99% when left standing.

\*2: It is not a malfunction, though it might not be corresponding just after power switch ON.

Sample

# Fail-safe

Refer to [Fail- Safe](#).

Sample

Protection Function.

Sample

# DTC Inspection Priority Chart

SIEMD-6898905

Priority	DTC
1	<ul style="list-style-type: none"> <li>• U2140-87 Controller area network communication error (Engine control module)</li> <li>• U2148-87 CAN communication error brake control unit</li> <li>• U214E-87 CAN communication error combination meter</li> <li>• U214F-87 CAN communication error (BCM)</li> <li>• U2152-87 CAN communication error advanced driver assistant systems control unit</li> <li>• U2154-87 CAN communication error multimedia interface unit</li> <li>• U2156-87 CAN communication error steering angel sensor</li> <li>• U215B-87 CAN communication error (IPDM E/R)</li> <li>• U2176-87 CAN communication error (chassis control module/steering angle sensor)</li> </ul>
2	<ul style="list-style-type: none"> <li>• C1601-16 Battery voltage</li> <li>• C1601-17 Battery voltage</li> </ul>
3	<ul style="list-style-type: none"> <li>• C1604-96 TORQUE SENSOR</li> <li>• C1608-43 Control unit</li> <li>• C1608-46 Control unit</li> <li>• C1608-49 Control unit</li> <li>• C1608-52 Control unit</li> <li>• C1608-54 Control unit</li> <li>• C1615-4B Control unit over heat</li> <li>• C1624-00 Signal connector</li> </ul>
4	<ul style="list-style-type: none"> <li>• C161A-82 Anti-lock braking system</li> <li>• C161A-83 Anti-lock braking system</li> <li>• C161A-86 Anti-lock braking system</li> <li>• C161B-82 Anti-lock braking system</li> <li>• C161B-83 Anti-lock braking system</li> <li>• C161B-86 Anti-lock braking system</li> <li>• C161C-82 Steering angle sensor system</li> <li>• C161C-83 Steering angle sensor system</li> <li>• C161C-86 Steering angle sensor system</li> <li>• C161E-82 Anti-lock braking system</li> <li>• C161E-83 Anti-lock braking system</li> <li>• C161E-86 Anti-lock braking system</li> </ul>

Priority	DTC
	<ul style="list-style-type: none"> <li>• C161F-86 AV system</li> <li>• C1620-82 Chassis control system</li> <li>• C1620-83 Chassis control system</li> <li>• C1621-86 Body control module system</li> <li>• C1622-86 Body control module system</li> <li>• C1623-86 Engine control module system</li> <li>• C162A-87 Advanced Driver Assistance System</li> <li>• C1632-86 VDC system</li> <li>• C1633-86 Vehicle dynamics control system</li> <li>• C1634-86 Steering angle sensor system</li> <li>• C1636-87 AV system</li> <li>• C163A-64 Advanced Driver Assistance System</li> <li>• C163A-82 Advanced Driver Assistance System</li> <li>• C163A-83 Advanced Driver Assistance System</li> <li>• C163A-86 Advanced Driver Assistance System</li> <li>• C163D-86 Advanced Driver Assistance System</li> <li>• C163E-86 ADAS system</li> </ul>
5	<ul style="list-style-type: none"> <li>• U0076-00 Control module communication Bus D Off</li> <li>• U1321-55 Configuration data error</li> </ul>



## 1. CHECK THE ILLUMINATION OF THE ELECTRIC POWER STEERING WARNING LAMP

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Check that the electric power steering warning lamp turns ON when power switch ON. Then, electric power steering warning lamp turns OFF after set the vehicle to READY.

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

Perform trouble diagnosis. [Diagnosis Procedure](#).

Sample

## 1. PERFORM SELF-DIAGNOSIS

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 With CONSULT

1. Pull the parking brake switch.



**NOTE:**

**Check to make sure that the parking brake switch indicator is turned ON.**

2. Power switch OFF.
3. Get out of the vehicle and close all doors.
4. Wait 65 seconds or more.



**NOTE:**

- **Check to make sure that the parking brake switch indicator is turned OFF.**
- **If the rear brake calipers are hot, wait up to an hour until parking brake switch indicator on the switch turns OFF. Once indicator on the switch turns OFF, move to next step.**

5. Power switch ON.
6. Perform self-diagnosis for “EPS/DIRECT ADAPTIVE STEERING 3”.

Is any DTC detected?

YES>>

Check the DTC. [DTC Index](#).

NO>>

[GO TO 2.](#)

## 2. CHECK TERMINALS AND HARNESS CONNECTORS

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Check the power steering control module terminals for damage or loose connection with harness connector.

Is the inspection result normal?

YES>>

Replace the power steering control module. [RDE-001825016](#).

NO>>

Repair/replace harness, connector or terminal.