

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.

2011 NISSAN X-Trail (T31) OEM Service and Repair Workshop Manual

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1. PRECONDITIONING

1. Press the power switch for at least 2 seconds to turn the high voltage system OFF and then check that the charging status indicator is not illuminated.

**NOTE:**

When the high voltage system is turned ON, the charging status indicator blinks green with a frequency of 1 second.

2. After the high voltage system is turned OFF, open the driver's side door, get out of the vehicle, close the driver's side door and wait for at least 5 minutes.

CAUTION:

- **Since the auto ACC function causes the accessory power to be turned ON, do not perform any vehicle operation including locking the doors or opening and closing of the doors during the standby state.**

If an operation is performed, wait an additional 5 minutes from that time.

- **Check that 12V battery voltage is 11 V or more.**

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2. PERFORM DTC CONFIRMATION PROCEDURE

 With CONSULT

1. Power switch ON and wait at least 10 seconds.
2. Check self-diagnostic result in “EV/HEV”.

Is DTC 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 ACTIVE GRILLE SHUTTER 2

Check active grille shutter 2. Refer to [Component Inspection](#).

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

Replace Active grille shutter. Refer to [Removal & Installation](#).

Sample

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
P05B1	97	Active grille air shutter B	Diagnosis condition	Power switch ON
			Signal	LIN communication signal (Active grille shutter 2)
			Threshold	When a stuck in the open position malfunction signal from active grille shutter 2 is received
			Detection time	More than 60 seconds

POSSIBLE CAUSE

Active grille shutter 2

FAIL-SAFE

Not applicable

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2. Check self-diagnostic result in "EV/HEV".

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Refer to [DTC Diagnosis Procedure](#).

NO-1>>

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NO-2>>

Confirmation after repair: INSPECTION END

1. CHECK ACTIVE GRILLE SHUTTER 2

Check active grille shutter 2. Refer to [Component Inspection](#).

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

Replace Active grille shutter. Refer to [Removal & Installation](#).

Sample

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
P05B1	F7	Active grille air shutter B	Diagnosis condition	Power switch ON
			Signal	LIN communication signal (Active grille shutter 2)
			Threshold	When an initial processing error signal from active grille shutter 2 is received
			Detection time	More than 48 seconds

POSSIBLE CAUSE

Active grille shutter 2

FAIL-SAFE

Not applicable

Sample

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2. Check self-diagnostic result in “EV/HEV”.

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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 ACTIVE GRILLE SHUTTER 2

Check active grille shutter 2. Refer to [Component Inspection](#).

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

Replace Active grille shutter. Refer to [Removal & Installation](#).

Sample

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
P0CA6	19	High voltage battery charging current	Diagnosis condition	During quick charge
			Signal	—
			Threshold	The quick charge current exceeds the specified value.
			Detection time	More than 5 seconds

POSSIBLE CAUSE

- Quick charger
- Quick charge port
- VCM

FAIL-SAFE

Quick charge is prohibited