

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.

2001 NISSAN X-Trail (T30) OEM Service and Repair Workshop Manual

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INSPECTION END [Although motor built in the ABS actuator and electric unit (control unit) operates temporarily without a break, this is not a malfunction. Erase the all memory of self-diagnosis results.]

Sample

DTC DETECTION LOGIC

DTC No.		CONSULT screen terms	DTC detection condition	
C106C	01	Pressure sensor	Diagnosis condition	<ul style="list-style-type: none"> • Power switch is ON. • When the power supply voltage is normal.
			Signal (terminal)	—
			Threshold	When a malfunction is detected in pressure sensor.
			Diagnosis delay time	1 second or less

POSSIBLE CAUSE



NOTE:

Confirm if DTC is PAST or CRNT. If DTC is CRNT, proceed with Diagnosis Procedure. If DTC is PAST, clear DTC. Do not replace the ABS actuator and electric unit (control unit) for a PAST DTC.

PAST DTC	CRNT DTC
<ul style="list-style-type: none"> • Harness or connector • Air inclusion in the brake piping • Stop lamp switch system • ABS actuator and electric unit (control unit) power supply system • Fuse • Fusible link • 12V battery 	<ul style="list-style-type: none"> • Harness or connector • Air inclusion in the brake piping • Stop lamp switch system • Brake system • ABS actuator and electric unit (control unit) • ABS actuator and electric unit (control unit) power supply system • Fuse • Fusible link • 12V battery

FAIL-SAFE

The following functions are suspended.

- VDC function
- TCS function
- hill start assist function
- Brake limited slip differential (BLSD) function
- Brake assist function
- Brake force distribution function
- Cooperative regenerative brake function

- Electric parking brake function

Sample

1. PRECONDITIONING

If “Confirmation Procedure” has been previously conducted, always power switch OFF, get out of the vehicle, close all doors (other than hood assembly), check that the combination meter is OFF, and wait for 1 minute or more without opening these doors before conducting the next test.

>>

[GO TO 2](#)

2. CHECK DTC DETECTION

 With CONSULT

1. Power switch OFF (Auto ACC is ON).
2. Get out of the vehicle, close all doors (other than hood assembly), check that the combination meter is OFF, and wait for 1 minute or more without opening these doors.

CAUTION:
Never operate the vehicle.

3. Power switch ON without depressing the brake pedal.

CAUTION:
Never set the vehicle to READY.

4. Perform self-diagnosis for “ABS”.

Is DTC “C106C-01” detected?

YES-1>>

“CRNT” is displayed: Refer to [DTC Diagnosis Procedure](#).

YES-2>>

“PAST” is displayed: INSPECTION END (Erase the memory of self-diagnosis results.)

NO-1>>

To check malfunction symptom before repair: Refer to [Intermittent Incident](#).

NO-2>>

Confirmation after repair: INSPECTION END

1. STOP LAMP SWITCH SYSTEM

Check the stop lamp switch system. Refer to [Component Function Check](#).

Is the inspection result normal?

YES>>

[GO TO 2.](#)

NO>>

Repair or replace stop lamp switch system.

2. CHECK BRAKE FLUID LEAKAGE

Check the brake fluid leakage. Refer to [BRAKE FLUID : Inspection](#).

Is the inspection result normal?

YES>>

[GO TO 3.](#)

NO>>

Repair or replace brake fluid leakage part.

3. CHECK BRAKE PIPING

Check the brake piping.

- Front: Refer to [FRONT BRAKE PIPING : Inspection](#).
- Rear: Refer to [REAR BRAKE PIPING : Inspection](#).

Is the inspection result normal?

YES>>

[GO TO 4.](#)

NO>>

Repair or replace error-detected brake piping.

- Front: Refer to [REAR BRAKE PIPING : Inspection](#).
- Rear: Refer to [REAR BRAKE PIPING : Removal & Installation](#).

4. CHECK BRAKE PEDAL

Check the brake pedal.

- Brake pedal height: Refer to [BRAKE PEDAL : Periodic Maintenance Operation](#).
- Brake pedal assembly: Refer to [BRAKE PEDAL : Inspection and Adjustment](#).

Is the inspection result normal?

YES>>

[GO TO 5.](#)

NO>>

Adjust the brake pedal height or replace brake pedal assembly.

- Adjust the brake pedal: Refer to [BRAKE PEDAL : Periodic Maintenance Operation.](#)
- Replace the brake pedal: Refer to [BRAKE PEDAL : Removal & Installation.](#)

5. CHECK ELECTRICALLY-DRIVEN INTELLIGENT BRAKE UNIT

Check the electrically-driven intelligent brake unit. Refer to [ELECTRICALLY-DRIVEN INTELLIGENT BRAKE UNIT : Inspection.](#)

Is the inspection result normal?

YES>>

[GO TO 6.](#)

NO>>

Repair or replace electrically-driven intelligent brake unit. Refer to [ELECTRICALLY-DRIVEN INTELLIGENT BRAKE UNIT : Removal & Installation.](#)

6. CHECK FRONT DISC BRAKE

Check the front disc brake. Refer to [FRONT BRAKE CALIPER ASSEMBLY : Inspection.](#)

Is the inspection result normal?

YES>>

[GO TO 7.](#)

NO>>

Repair or replace front disc brake. Refer to [FRONT BRAKE CALIPER ASSEMBLY : Removal & Installation.](#)

7. CHECK REAR DISC BRAKE

Check the rear disc brake. Refer to [REAR BRAKE CALIPER ASSEMBLY : Inspection.](#)

Is the inspection result normal?

YES>>

[GO TO 8.](#)

NO>>

Repair or replace rear disc brake. Refer to [REAR BRAKE CALIPER ASSEMBLY : Removal & Installation.](#)

8. CHECK ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT) POWER SUPPLY AND GROUND CIRCUIT

Check the ABS actuator and electric unit (control unit) power supply and ground circuit. Refer to [Diagnosis Procedure.](#)

Is the inspection result normal?

YES>>

[GO TO 9.](#)

NO>>

Repair / replace harness, connector, terminal, fuse, or fusible link.

9. PERFORM SELF-DIAGNOSIS

 With CONSULT

1. Erase self-diagnosis result for “ABS”.
2. Power switch OFF (Auto ACC function ON).
3. Get out of the vehicle, close all doors (other than hood assembly), check that the combination meter is OFF, and wait for 1 minute or more without opening these doors.

CAUTION:
Never operate the vehicle.

4. Set the vehicle to READY, and drive the vehicle at approximately 50 km/h (31 MPH) or more for approximately 2 minutes.



NOTE:
Vehicle must be driven after repair or replacement to erase the previous DTCs.

5. Stop the vehicle.
6. Power switch OFF (Auto ACC function ON).
7. Get out of the vehicle, close all doors (other than hood assembly), check that the combination meter is OFF, and wait for 1 minute or more without opening these doors.

CAUTION:
Never operate the vehicle.

8. Power switch ON without depressing the brake pedal.

CAUTION:
Never set the vehicle to READY.

9. Perform self-diagnosis for “ABS”.

Is DTC “C106C-01” detected?

YES>>

Replace the ABS actuator and electric unit (control unit). Refer to [ABS ACTUATOR AND ELECTRIC UNIT \(CONTROL UNIT\): Removal & Installation](#).

NO>>

Check the ABS actuator and electric unit (control unit) harness connector and terminal for damage, looseness and disconnection. Repair / replace harness, connector, or terminal.

DTC DETECTION LOGIC

DTC No.		CONSULT screen terms	DTC detection condition	
C106C	02	Pressure sensor	Diagnosis condition	<ul style="list-style-type: none"> Power switch is ON. When the power supply voltage is normal.
			Signal (terminal)	—
			Threshold	When a malfunction is detected in pressure sensor.
			Diagnosis delay time	1 second or less

POSSIBLE CAUSE



NOTE:

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