

# Your Ultimate Source for OEM Repair Manuals

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## 2001 NISSAN Patrol LWB OEM Service and Repair Workshop Manual

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## DTC DETECTION LOGIC

DTC No.		CONSULT screen terms	DTC detection condition	
C1076	55	Not configured	Diagnosis condition	<ul style="list-style-type: none"> <li>Power switch is ON.</li> <li>When the power supply voltage is normal.</li> </ul>
			Signal (terminal)	—
			Threshold	When programing is not complete.
			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
Programing is not complete	<ul style="list-style-type: none"> <li>Programing is not complete</li> <li>ABS actuator and electric unit (control unit)</li> </ul>

## FAIL-SAFE

The following functions are suspended.

- VDC function
- TCS function
- ABS function
- EBD 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

## 1. PRECONDITIONING

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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.

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## 2. CHECK DTC DETECTION

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 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 “C1076-55” 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. PERFORM PROGRAMING

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Perform programming of ABS actuator and electric unit (control unit). Refer to [Work Procedure](#).

**CAUTION:**


**Do not replace the ABS actuator and electric unit (control unit) until self-diagnosis has been completed.**

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## 2. PERFORM SELF-DIAGNOSIS

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 With CONSULT

Replace the ABS actuator and electric unit (control unit) even if other DTCs are displayed along with “C1076-55” in self-diagnosis for “ABS”.

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

## DTC DETECTION LOGIC

DTC No.		CONSULT screen terms	DTC detection condition	
C1077	55	Downhill drive support switch	Diagnosis condition	<ul style="list-style-type: none"> <li>Power switch is ON.</li> <li>When the power supply voltage is normal.</li> </ul>
			Signal (terminal)	—
			Threshold	When an internal malfunction in ABS actuator and electric unit (control unit).
			Diagnosis delay time	2 seconds 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"> <li>ABS actuator and electric unit (control unit) power supply system</li> <li>Fuse</li> <li>Fusible link</li> <li>12V battery</li> </ul>	<ul style="list-style-type: none"> <li>ABS actuator and electric unit (control unit)</li> <li>ABS actuator and electric unit (control unit) power supply system</li> <li>Fuse</li> <li>Fusible link</li> <li>12V battery</li> </ul>

## 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

## 1. PRECONDITIONING

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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.

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## 2. CHECK DTC DETECTION

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 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 “C1077-55” 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. CHECK VCM SYSTEM

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 With CONSULT

Perform self-diagnosis for “EV/HEV”.

Is DTC detected?

YES>>

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

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

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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 3.](#)

NO>>

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

## 3. CHECK CONNECTOR AND TERMINAL

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1. Disconnect 12V battery negative terminal.
2. Disconnect VCM harness connector.
3. Check the VCM harness connector for disconnection or looseness.
4. Check the VCM terminals for damage or loose connection with harness connector.
5. Disconnect ABS actuator and electric unit (control unit) harness connector.
6. Check the ABS actuator and electric unit (control unit) harness connector for disconnection or looseness.
7. Check the ABS actuator and electric unit (control unit) terminals for damage or loose connection with harness connector.

Is the inspection result normal?

YES>>

[GO TO 4.](#)

NO>>

Repair / replace harness, connector, or terminal. [GO TO 4.](#)

## 4. PERFORM SELF-DIAGNOSIS

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 With CONSULT

1. Connect VCM harness connector.

2. Connect ABS actuator and electric unit (control unit) harness connector.
3. Connect 12V battery negative terminal.
4. Erase self-diagnosis result for “ABS”.
5. Power switch OFF (Auto ACC function ON).
6. 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.**

7. Power switch ON without depressing the brake pedal.

**CAUTION:**  
**Never set the vehicle to READY.**

8. Perform self-diagnosis for “ABS”.

Is DTC detected?

YES>>

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

NO>>

INSPECTION END



## DTC DETECTION LOGIC

DTC No.		CONSULT screen terms	DTC detection condition	
C1077	92	Downhill drive support switch	Diagnosis condition	<ul style="list-style-type: none"> <li>Power switch is ON.</li> <li>When the power supply voltage is normal.</li> </ul>
			Signal (terminal)	CAN communication signal
			Threshold	When a malfunction is detected in shift position.
			Diagnosis delay time	2 seconds 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"> <li>ABS actuator and electric unit (control unit) power supply system</li> <li>Fuse</li> <li>Fusible link</li> <li>12V battery</li> </ul>	<ul style="list-style-type: none"> <li>ABS actuator and electric unit (control unit)</li> <li>ABS actuator and electric unit (control unit) power supply system</li> <li>Fuse</li> <li>Fusible link</li> <li>12V battery</li> </ul>

## FAIL-SAFE

Normal control

## 1. PRECONDITIONING

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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.

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## 2. CHECK DTC DETECTION

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 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 “C1077-92” 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