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2001 NISSAN Primera Wagon OEM Service and Repair Workshop Manual

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Refer to Trouble Diagnosis Flow Chart.



DTC DETECTION LOGIC

DTC No.		CONSULT screen terms		DTC detection condition		
	87	Controller area network communication error (Vehicle control module/Hybrid control module)	1	Diagnosis condition	Power switch is ON.When the power supply voltage is normal.	
				Signal (terminal)	CAN communication signal	
				Threshold	When CAN communication signal is not continuously transmitted to VCM.	
U2243				Diagnosis delay time	2 seconds or more	
02243			2	Diagnosis condition	Power switch is ON.When the power supply voltage is normal.	
				Signal (terminal)	CAN communication signal	
				Threshold	When CAN communication signal is not continuously received from VCM.	
				Diagnosis delay time	2 seconds or more	

POSSIBLE CAUSE



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
 Harness or connector CAN communication line	Harness or connector

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

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

(E)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 "U2243-87" 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

Refer to Trouble Diagnosis Flow Chart.



DTC DETECTION LOGIC

DTC No.		CONSULT screen terms	DTC detection condition	
C104A	04	Front left ABS OUT valve	Diagnosis condition	Power switch ON.When the power supply voltage is normal.
0101			Signal (terminal)	_
			Threshold	When a malfunction is detected in front left ABS OUT valve.
			Diagnosis delay time	1 second or less

POSSIBLE CAUSE



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
 Harness or connector ABS actuator and electric unit (control unit) power supply system Fuse Fusible link 12V battery 	 Harness or connector 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
- 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

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

(E)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 "C104A-04" 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 CONNECTOR

- 1. Disconnect 12V battery negative terminal.
- 2. Check the ABS actuator and electric unit (control unit) harness connector for disconnection or looseness.

Is the inspection result normal?

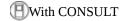
YES>>

GO TO 3.

NO>>

Repair / replace harness or connector, securely lock the connector. GO TO 2.

2. PERFORM SELF-DIAGNOSIS



- 1. Connect 12V battery negative terminal.
- 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. Power switch ON without depressing the brake pedal.

CAUTION:

Never set the vehicle to READY.

5. Perform self-diagnosis for "ABS".

Is DTC "C104A-04" detected?

YES>>

GO TO 3.

NO>>

INSPECTION END

3. 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>>

Replace the ABS actuator and electric unit (control unit). Refer to <u>ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)</u>: Removal & Installation.

NO>>

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

