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2003 NISSAN Almera / Pulsar 4 Doors OEM Service and Repair Workshop Manual

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2. Check the voltage between ABS actuator and electric unit (control unit) harness connector and ground.

+		—	Voltage
ABS actuator and electric unit (control unit)			
Connector	Terminal		
B2	30	Ground	10 – 16 V

Is the inspection result normal?

YES>>

[GO TO 6.](#)

NO>>

[GO TO 5.](#)

5. CHECK MOTOR POWER SUPPLY CIRCUIT

1. Disconnect 12V battery negative terminal.
2. Check the 30A fusible link (#K). (Without ProPILOT Assist 2.0)
3. Check the 30A fusible link (#W). (With ProPILOT Assist 2.0)
4. Check the continuity and short circuit between ABS actuator and electric unit (control unit) harness connector terminal (30) and 30A fusible link (#K). (Without ProPILOT Assist 2.0)
5. Check the continuity and short circuit between ABS actuator and electric unit (control unit) harness connector terminal (30) and 30A fusible link (#W). (With ProPILOT Assist 2.0)

Is the inspection result normal?

YES>>

Perform trouble diagnosis for 12V battery power supply.

NO>>

Repair/replace harness, connector or fusible link.

6. CHECK ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT) MODULE GROUND CIRCUIT

1. Disconnect 12V battery negative terminal.
2. Check the continuity between ABS actuator and electric unit (control unit) harness connector and ground.

ABS actuator and electric unit (control unit)		—	Continuity
Connector	Terminal		
B2	46		
		Ground	Existed

Is the inspection result normal?

YES>>

[GO TO 7.](#)

NO>>

Repair / replace harness or connector: [GO TO 7.](#)

7. CHECK TERMINAL

1. Check parking brake actuator terminals for damage or loose connection with harness connector.
2. Check ABS actuator and electric unit (control unit) terminals for damage or loose connection with harness connector.

Is the inspection result normal?

YES>>

[GO TO 8.](#)

NO>>

Repair / replace harness, connector, or terminal. [GO TO 8.](#)

8. PERFORM SELF-DIAGNOSIS

 With CONSULT

1. Connect the parking brake actuator harness connector.
2. Connect the ABS actuator and electric unit (control unit) harness connector.
3. Connect 12V battery negative terminal.
4. Power switch OFF (Auto ACC function ON).
5. 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.

6. Power switch ON without depressing the brake pedal.

CAUTION:
Never set the vehicle to READY.

7. Apply and release the parking brake five times.
8. Perform self-diagnosis for "ABS".

Is DTC "C10B3-49" detected?

YES-1>>

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

YES-2>>

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

NO>>

INSPECTION END

DTC DETECTION LOGIC

DTC No.		CONSULT screen terms	DTC detection condition	
C10B3	53	Parking brake control module	Diagnosis condition	Power switch is ON.
			Signal (terminal)	—
			Threshold	When an internal malfunction in ABS actuator and electric unit (control unit).
			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 • Parking brake actuator • ABS actuator and electric unit (control unit) power supply system • Fuse • Fusible link • 12V battery 	<ul style="list-style-type: none"> • Harness or connector • Parking brake actuator • 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.

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

 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. Push the parking brake switch.

CAUTION:

- **Set the shift position in the P.**
- **Depress the brake pedal.**

5. Pull the parking brake switch.
6. Perform self-diagnosis for “ABS”.

Is DTC “C10B3-53” 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. CHANGE OF SYSTEM MODE

 With CONSULT

Check the system mode after ABS actuator and electric unit (control unit) replacement.

Is system mode changes completed?

YES>>

[GO TO 2.](#)

NO>>

Perform change of system mode. Refer to [Work Procedure](#). [GO TO 2.](#)

2. PERFORM SELF-DIAGNOSIS

 With CONSULT

1. Power switch OFF (Auto ACC function 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 "C10B3-53" detected?

YES-1>>

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

YES-2>>

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

NO>>

INSPECTION END

DTC DETECTION LOGIC

DTC No.		CONSULT screen terms	DTC detection condition	
C10B3	55	Parking brake control module	Diagnosis condition	<ul style="list-style-type: none"> Power switch is ON. When the power supply voltage is normal.
			Signal (terminal)	—
			Threshold	When an internal malfunction in ABS actuator and electric unit (control unit).
			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 Parking brake actuator ABS actuator and electric unit (control unit) power supply system Fuse Fusible link 12V battery 	<ul style="list-style-type: none"> Harness or connector Parking brake actuator 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.

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

 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. Push the parking brake switch.

CAUTION:

- **Set the shift position in the P.**
- **Depress the brake pedal.**

5. Pull the parking brake switch.
6. Perform self-diagnosis for “ABS”.

Is DTC “C10B3-55” 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. PROGRAMING OF ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)

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

>>

[GO TO 2.](#)

2. PERFORM SELF-DIAGNOSIS

 With CONSULT

1. Power switch OFF (Auto ACC function 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 "C10B3-55" detected?

YES-1>>

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

YES-2>>

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

NO>>

INSPECTION END

1. CHECK ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT) POWER SWITCH ON POWER SUPPLY

1. Power switch OFF.
2. Disconnect the ABS actuator and electric unit (control unit) harness connector.
3. Check the voltage between ABS actuator and electric unit (control unit) harness connector and ground.

CAUTION:
Never make the terminals short.

+		—	Voltage
ABS actuator and electric unit (control unit)			
Connector	Terminal	Ground	Approx. 0 V
B2	36		

4. Power switch ON.

CAUTION:
Never set the vehicle to READY.

5. Check the voltage between ABS actuator and electric unit (control unit) harness connector and ground.

CAUTION:
Never make the terminals short.

+		—	Voltage
ABS actuator and electric unit (control unit)			
Connector	Terminal	Ground	10 – 16 V
B2	36		

Is the inspection result normal?

YES>>

[GO TO 3.](#)

NO>>

[GO TO 2.](#)

2. CHECK ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT) POWER SWITCH ON POWER SUPPLY

1. Power switch OFF.
2. Check the 5A fuse (#39). (Without ProPILOT Assist 2.0)
3. Check the 10A fuse (#111). (With ProPILOT Assist 2.0)
4. Check the continuity between ABS actuator and electric unit (control unit) harness connector and fuse block (J/B) harness connector. (Without ProPILOT Assist 2.0)