

Your Ultimate Source for OEM Repair Manuals

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2003 NISSAN 350Z OEM Service and Repair Workshop Manual

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1. CHECK CONNECTOR

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

Is the inspection result normal?

YES>>

[GO TO 2.](#)

NO>>

Repair / replace harness or connector. [GO TO 2.](#)

2. CHECK PARKING BRAKE ACTUATOR CIRCUIT (1)

1. Disconnect the ABS actuator and electric unit (control unit) harness connector.
2. Check the continuity between ABS actuator and electric unit (control unit) harness connector terminals.

ABS actuator and electric unit (control unit)		Continuity
Connector	Terminal	
B2	13 - 12	Existed

Is the inspection result normal?

YES>>

[GO TO 4.](#)

NO>>

[GO TO 3.](#)

3. CHECK PARKING BRAKE ACTUATOR CIRCUIT (2)

Check the continuity between parking brake actuator (LH) harness connector terminals.

Terminal	Continuity
1 - 2	Existed

Is the inspection result normal?

YES>>

Repair / replace harness or connector.

NO>>

Replace the parking brake actuator (LH). Refer to [PARKING BRAKE ACTUATOR : Removal & Installation.](#)

4. CHECK TERMINAL

1. Check parking brake actuator (LH) 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 5.](#)

NO>>

Repair / replace harness, connector, or terminal. [GO TO 5.](#)

5. CHECK PARKING BRAKE ACTUATOR

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



NOTE:

Wait at least 10 seconds after power switch ON.

5. Pull or push parking brake switch, and check the operation sound of parking brake actuator.

Is the inspection result normal?

YES>>

[GO TO 6.](#)

NO>>

Replace the parking brake actuator (LH). Refer to [PARKING BRAKE ACTUATOR : Removal & Installation.](#)

6. PERFORM SELF-DIAGNOSIS

 With CONSULT

Perform self-diagnosis for "ABS".

Is DTC "C10B0-09" 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	
C1083	86	Steering angle sensor	Diagnosis condition	<ul style="list-style-type: none"> Power switch is ON. When the power supply voltage is normal.
			Signal (terminal)	CAN communication signal
			Threshold	When a malfunction is detected in steering angle sensor.
			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"> Harness or connector CAN communication line ABS actuator and electric unit (control unit) power supply system Fuse Fusible link 12V battery 	<ul style="list-style-type: none"> Harness or connector CAN communication line Steering angle sensor 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

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 “C1083-86” 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 STEERING ANGLE SENSOR SYSTEM

 With CONSULT

Perform self-diagnosis for “ABS”.

Is DTC detected?

YES>>

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

NO>>

[GO TO 2.](#)

2. 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 3.](#)

NO>>

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

3. CHECK CONNECTOR AND TERMINAL

1. Disconnect 12V battery negative terminal.
2. Disconnect steering angle sensor harness connector.
3. Check the steering angle sensor harness connector for disconnection or looseness.
4. Check the steering angle sensor 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, securely lock the connector. [GO TO 4.](#)

4. PERFORM SELF-DIAGNOSIS

 With CONSULT

1. Connect steering angle sensor 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	
C10B3	68	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.

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[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 “C10B3-68” 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

1. Select "ABS", "Work support" and "Finish brake pad replacement" in this order.

CAUTION:


- Never operate the parking brake switch.
- Never depress the brake pedal.

2. Select "START".

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[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 "C10B3-68" 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