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1998 NISSAN Primera Hatchback OEM Service and Repair Workshop Manual

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11. 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.

12. Power switch ON without depressing the brake pedal.

CAUTION:
Never set the vehicle to READY.

13. Perform self-diagnosis for “ABS”.

Is DTC “C1063-02” detected?

YES>>

[GO TO 7.](#)

NO>>

INSPECTION END

7. CHECK WHEEL SENSOR HARNESS

1. Disconnect 12V battery negative terminal.
2. Disconnect ABS actuator and electric unit (control unit) harness connector.
3. Disconnect front right wheel sensor harness connector.
4. Check the continuity between ABS actuator and electric unit (control unit) harness connector and front right wheel sensor harness connector. (Check the continuity while turning steering wheel left and right, or while moving center harness in wheel housing.)
 - Measurement connector and terminal for power supply circuit

ABS actuator and electric unit (control unit)		Front right wheel sensor		Continuity
Connector	Terminal	Connector	Terminal	
B2	21	E109	1	Existed

- Measurement connector and terminal for signal circuit

ABS actuator and electric unit (control unit)		Front right wheel sensor		Continuity
Connector	Terminal	Connector	Terminal	
B2	26	E109	2	Existed

Is the inspection result normal?

YES>>

[GO TO 10.](#)

NO>>

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

8. PERFORM SELF-DIAGNOSIS (3)

1. Connect ABS actuator and electric unit (control unit) harness connector.
2. Connect front right wheel sensor 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. Set the vehicle to READY.
8. 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.

9. Stop the vehicle.
10. Power switch OFF (Auto ACC function ON).
11. 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.

12. Power switch ON without depressing the brake pedal.

CAUTION:
Never set the vehicle to READY.

13. Perform self-diagnosis for “ABS”.

Is DTC “C1063-02” detected?

YES>>

[GO TO 9.](#)

NO>>

INSPECTION END

9. CHECK WHEEL SENSOR OUTPUT SIGNAL

1. Disconnect 12V battery negative terminal.
2. Disconnect ABS actuator and electric unit (control unit) harness connector.
3. Disconnect front right wheel sensor harness connector.
4. Connect ABS active wheel sensor tester (SST: J-45741-A) to front right wheel sensor using appropriate adapter.
5. Turn the ABS active wheel sensor tester power switch ON.



NOTE:

The green POWER indicator should illuminate. If the POWER indicator does not illuminate, replace the battery in the ABS active wheel sensor tester before proceeding.

- Spin the wheel of the vehicle by hand and observe the red SENSOR indicator on the ABS active wheel sensor tester. The red SENSOR indicator should flash ON and OFF to indicate an output signal.



NOTE:

If the red SENSOR indicator illuminates but does not flash, reverse the polarity of the tester leads and retest.

Does the ABS active wheel sensor tester detect a signal?

YES>>

Replace the ABS actuator and electric unit (control unit). Refer to [Removal and Installation](#).

NO>>

[GO TO 10.](#)

10. REPLACE WHEEL SENSOR

- Replace the front right wheel sensor. Refer to [FRONT WHEEL SENSOR : Removal & Installation](#).
- Erase self-diagnosis result for "ABS".
- Power switch OFF (Auto ACC function ON).
- 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.

- Set the vehicle to READY.
- 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.

- Stop the vehicle.
- Power switch OFF (Auto ACC function ON).
- 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.

- Power switch ON without depressing the brake pedal.

CAUTION:

Never set the vehicle to READY.

- Perform self-diagnosis for "ABS".

Is DTC "C1063-02" detected?

YES>>

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

NO>>

INSPECTION END

Sample

DTC DETECTION LOGIC

DTC No.		CONSULT screen terms	DTC detection condition		
C1063	07	Front right wheel sensor	1	Diagnosis condition	<ul style="list-style-type: none"> Power switch is ON. When front right wheel sensor power supply voltage is normal. When the vehicle speed is 10 km/ h (6.2 MPH) - 60 km/h (37 MPH).
				Signal (terminal)	Front right wheel sensor signal
				Threshold	When distance between front right wheel sensor and front right wheel sensor rotor is large.
				Diagnosis delay time	1 - 60 seconds or more
			2	Diagnosis condition	<ul style="list-style-type: none"> Power switch is ON. When front right wheel sensor power supply voltage is normal. When the vehicle speed is 10 km/ h (6.2 MPH) - 60 km/h (37 MPH).
				Signal (terminal)	Front right wheel sensor signal
				Threshold	When installation of front right wheel sensor is not normal.
				Diagnosis delay time	1 - 60 seconds or more
			3	Diagnosis condition	<ul style="list-style-type: none"> Power switch is ON. When front right wheel sensor power supply voltage is normal. When the vehicle speed is 10 km/ h (6.2 MPH) - 60 km/h (37 MPH).
				Signal (terminal)	Front right wheel sensor signal
				Threshold	When installation of front right sensor rotor is not normal.
				Diagnosis delay time	1 - 60 seconds or more
			4	Diagnosis condition	<ul style="list-style-type: none"> Power switch is ON.

DTC No.		CONSULT screen terms	DTC detection condition		
			5		<ul style="list-style-type: none"> When front right wheel sensor power supply voltage is normal. When the vehicle speed is 10 km/ h (6.2 MPH) – 60 km/h (37 MPH).
				Signal (terminal)	Front right wheel sensor signal
				Threshold	When there is contamination on to the front right wheel sensor.
				Diagnosis delay time	1 - 60 seconds or more
				Diagnosis condition	<ul style="list-style-type: none"> Power switch is ON. When front right wheel sensor power supply voltage is normal. When the vehicle speed is 10 km/ h (6.2 MPH) – 60 km/h (37 MPH).
				Signal (terminal)	Front right wheel sensor signal
				Threshold	When there is contamination on to the front right sensor rotor.
				Diagnosis delay time	1 - 60 seconds or more

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 Front right wheel sensor Front right sensor rotor Front right tire size ABS actuator and electric unit (control unit) power supply system Fuse Fusible link 12V battery 	<ul style="list-style-type: none"> Vehicle was not driven after previous repair Harness or connector Front right wheel sensor Front right sensor rotor Front right tire size ABS actuator and electric unit (control unit) ABS actuator and electric unit (control unit) power supply system Fuse

PAST DTC	CRNT DTC
	<ul style="list-style-type: none">• 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

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 “C1063-07” 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

CAUTION:

Never check between wheel sensor harness connector terminals.

1. CHECK WHEEL HUB ASSEMBLY

Check that there is no excessive looseness in front right wheel hub assembly. Refer to [FRONT WHEEL HUB AND KNUCKLE : Periodic Maintenance Operation](#).

Is the inspection result normal?

YES>>

[GO TO 2.](#)

NO>>

Repair or replace the front right wheel hub assembly. Refer to [FRONT WHEEL HUB AND KNUCKLE : Removal & Installation](#).
[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 TIRE

1. Power switch OFF.

2. Check the front right tire air pressure, wear and size. Refer to [TIRE AIR PRESSURE : Service Data](#).

Is the inspection result normal?

YES>>

[GO TO 6.](#)

NO>>

Adjust air pressure or replace front right tire. [GO TO 4.](#)

4. CHECK DATA MONITOR (1)

 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.