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2000 NISSAN Terrano II 3 Doors OEM Service and Repair Workshop Manual

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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 “C1068-96” detected?

YES>>

[GO TO 17.](#)

NO>>

INSPECTION END

17. CHECK WHEEL SENSOR HARNESS

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

ABS actuator and electric unit (control unit)			—	Continuity
Connector	Terminal			
B2	24, 7	(Front left)	Ground	Not existed
	21, 26	(Front right)		
	39, 23	(Rear left)		
	22, 37	(Rear right)		

Is the inspection result normal?

YES>>

[GO TO 18.](#)

NO>>

Repair / replace harness or connector. [GO TO 18.](#)

18. CHECK DATA MONITOR (4)

 With CONSULT

1. Connect ABS actuator and electric unit (control unit) harness connector.
2. Connect 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. Select "ABS" and "Data monitor", check "Front left wheel speed", "Front right wheel speed", "Rear left wheel speed", and "Rear right wheel speed".



NOTE:
Set the "Data monitor" recording speed to "10 msec".

9. Read a value (wheel speed) of all wheel sensor.



NOTE:
Vehicle must be driven after repair or replacement to erase the previous DTCs.

Note the difference at 50 km/h (31 MPH) between the each wheel sensor and the maximum/minimum wheel speed detected by the each wheel sensor, is the difference within 5%, respectively?

YES>>

[GO TO 19.](#)

NO>>

[GO TO 20.](#)

19. PERFORM SELF-DIAGNOSIS (5)

 With CONSULT

1. Stop the vehicle.
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 "C1068-96" detected?

YES>>

[GO TO 20.](#)

NO>>

INSPECTION END

20. REPLACE WHEEL SENSOR (2)

 With CONSULT

1. Replace the wheel sensor.
 - Front: Refer to [FRONT WHEEL SENSOR : Removal & Installation.](#)
 - Rear: Refer to [REAR WHEEL SENSOR : Removal & Installation.](#)
2. Erase self-diagnosis result for “ABS”.
3. Power switch OFF (Auto ACC function ON).
4. 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.

5. Set the vehicle to READY.
6. Select “ABS” and “Data monitor”, check “Front left wheel speed”, “Front right wheel speed“, “Rear left wheel speed“, and “Rear right wheel speed“.



NOTE:
Set the “Data monitor” recording speed to “10 msec”.

7. Read a value (wheel speed) of all wheel sensor.



NOTE:
Vehicle must be driven after repair or replacement to erase the previous DTCs.

Note the difference at 50 km/h (31 MPH) between the each wheel sensor and the maximum/minimum wheel speed detected by the each wheel sensor, is the difference within 5%, respectively?

YES>>

[GO TO 21.](#)

NO>>

[GO TO 22.](#)

21. PERFORM SELF-DIAGNOSIS (6)

 With CONSULT

1. Stop the vehicle.
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 “C1068-96” detected?

YES>>

[GO TO 22.](#)

NO>>

INSPECTION END

22. REPLACE SENSOR ROTOR

 With CONSULT

1. Replace the sensor rotor.

- Front: Refer to [FRONT SENSOR ROTOR : Removal & Installation.](#)
- Rear: Refer to [REAR SENSOR ROTOR : Removal & Installation.](#)

2. Erase self-diagnosis result for “ABS”.

3. Power switch OFF (Auto ACC function ON).

4. 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.

5. Set the vehicle to READY.

6. 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.

7. Stop the vehicle.

8. Power switch OFF (Auto ACC function ON).

9. 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.

10. Power switch ON without depressing the brake pedal.

CAUTION:

Never set the vehicle to READY.

11. Perform self-diagnosis for “ABS”.

Is DTC “C1068-96” 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		
C1069	95	Rear wheel sensor	1	Diagnosis condition	<ul style="list-style-type: none"> Power switch is ON. When rear left wheel sensor power supply voltage is normal.
				Signal (terminal)	Rear left wheel sensor signal
				Threshold	When a malfunction is detected in rear left wheel sensor.
				Diagnosis delay time	1 second or less
			2	Diagnosis condition	<ul style="list-style-type: none"> Power switch is ON. When rear right wheel sensor power supply voltage is normal.
				Signal (terminal)	Rear right wheel sensor signal
				Threshold	When a malfunction is detected in rear right wheel sensor.
				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 Rear left wheel sensor Rear left sensor rotor Rear left tire size Rear right wheel sensor Rear right sensor rotor Rear 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 Rear left wheel sensor Rear left sensor rotor Rear left tire size Rear right wheel sensor Rear right sensor rotor Rear 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"><li data-bbox="858 62 1018 91">• Fusible link<li data-bbox="858 120 1018 150">• 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 "C1069-95" 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 rear wheel hub assembly. Refer to [REAR WHEEL HUB : Periodic Maintenance Operation](#).

Is the inspection result normal?

YES>>

[GO TO 2.](#)

NO>>

Repair or replace the rear wheel hub assembly. Refer to [REAR WHEEL HUB : 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 rear 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 rear 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.