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2001 NISSAN Almera Tino OEM Service and Repair Workshop Manual

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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 15.](#)

NO>>

[GO TO 16.](#)

15. PERFORM SELF-DIAGNOSIS (4)

 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 “C106A-55” detected?

YES>>

[GO TO 16.](#)

NO>>

INSPECTION END

16. 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.
 - o Measurement connector and terminal for power supply circuit

ABS actuator and electric unit (control unit)		Wheel sensor		Continuity	
Connector	Terminal	Connector	Terminal		
B2	24	B177	(Front left)	1	Existed
	21	E109	(Front right)		
	39	B178	(Rear left)		
	22	B180	(Rear right)		

- o Measurement connector and terminal for signal circuit

ABS actuator and electric unit (control unit)		Wheel sensor		Continuity	
Connector	Terminal	Connector	Terminal		
B2	7	B177	(Front left)	2	Existed
	26	E109	(Front right)		
	23	B178	(Rear left)		
	37	B180	(Rear right)		

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

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

Is the inspection result normal?

YES>>

[GO TO 17.](#)

NO>>

Repair / replace harness or connector. [GO TO 17.](#)

17. 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 18.](#)

NO>>

[GO TO 19.](#)

18. 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 “C106A-55” detected?

YES>>

[GO TO 19.](#)

NO>>

INSPECTION END

19. 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 20.](#)

NO>>

[GO TO 21.](#)

20. 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 “C106A-55” detected?

YES>>

[GO TO 21.](#)

NO>>

INSPECTION END

21. 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 “C106A-55” 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		
C106A	62	Wheel sensor	1	Diagnosis condition	<ul style="list-style-type: none"> Power switch is ON. When front left 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 left wheel sensor signal
				Threshold	When a malfunction is detected in front left wheel sensor.
				Diagnosis delay time	1 second or less
			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 a malfunction is detected in front right wheel sensor.
				Diagnosis delay time	1 second or less
			3	Diagnosis condition	<ul style="list-style-type: none"> Power switch is ON. When rear left 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)	Rear left wheel sensor signal
				Threshold	When a malfunction is detected in rear left wheel sensor.
				Diagnosis delay time	1 second or less
			4	Diagnosis condition	<ul style="list-style-type: none"> Power switch is ON. When rear 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)	Rear right wheel sensor signal
				Threshold	When a malfunction is detected in rear right wheel sensor.
				Diagnosis delay	1 second or less

DTC No.	CONSULT screen terms	DTC detection condition	
			time

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 left wheel sensor • Front left sensor rotor • Front left tire size • Front right wheel sensor • Front right sensor rotor • Front right tire size • 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 • Front left wheel sensor • Front left sensor rotor • Front left tire size • Front right wheel sensor • Front right sensor rotor • Front right tire size • 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 • 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