

Your Ultimate Source for OEM Repair Manuals

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2003 NISSAN Almera / Pulsar 5 Doors OEM Service and Repair Workshop Manual

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ABS actuator and electric unit (control unit)		Fuse block (J/B)		Continuity
Connector	Terminal	Connector	Terminal	
B2	36	E57	71	Existed

5. Check the continuity and short circuit between ABS actuator and electric unit (control unit) harness connector terminal (36) and 10A fuse (#111). (With ProPILOT Assist 2.0)

Is the inspection result normal?

YES>>

Perform trouble diagnosis for power switch ON power supply.

NO>>

Repair / replace harness, connector, or fuse.

3. CHECK ABS MOTOR, AND MOTOR RELAY POWER SUPPLY

1. Power switch OFF.
2. 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		
B2	1	Ground	10 – 16 V

Is the inspection result normal?

YES>>

[GO TO 5.](#)

NO >>

[GO TO 4.](#)

4. CHECK ABS MOTOR AND MOTOR RELAY POWER SUPPLY CIRCUIT

1. Power switch OFF.
2. Check the 60A fusible link (#C). (Without ProPILOT Assist 2.0)
3. Check the 80A fusible link (#AE). (With ProPILOT Assist 2.0)
4. Check the continuity and short circuit between ABS actuator and electric unit (control unit) harness connector terminal (1) and 600A fusible link (#C). (Without ProPILOT Assist 2.0)
5. Check the continuity and short circuit between ABS actuator and electric unit (control unit) harness connector terminal (1) and 80A fusible link (#AE). (With ProPILOT Assist 2.0)

Is the inspection result normal?

YES>>

Perform trouble diagnosis for 12V battery power supply.

NO>>

5. CHECK ACTUATOR RELAY, EACH VALVE, PARKING BRAKE ACTUATOR POWER SUPPLY

1. Power switch OFF.
2. 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		
B1	30	Ground	10 – 16 V

Is the inspection result normal?

YES>>

[GO TO 7.](#)

NO>>

[GO TO 6.](#)

6. CHECK ACTUATOR RELAY, EACH VALVE, PARKING BRAKE ACTUATOR POWER SUPPLY CIRCUIT

1. Power switch OFF.
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 fuse.

7. CHECK GROUND CIRCUIT

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	14	Ground	Existed

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

Is the inspection result normal?

YES>>

[GO TO 8.](#)

NO>>

Repair / replace harness or connector.

8. CHECK TERMINAL

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

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

Repair / replace harness, connector, or terminal.

Sample

CAUTION:

Since sensor rotor is not allowed to disassemble, replace wheel bearing assembly. if sensor rotor needs to be replaced.

REMOVAL

Remove wheel bearing. Refer to [Removal and Installation](#).

INSTALLATION

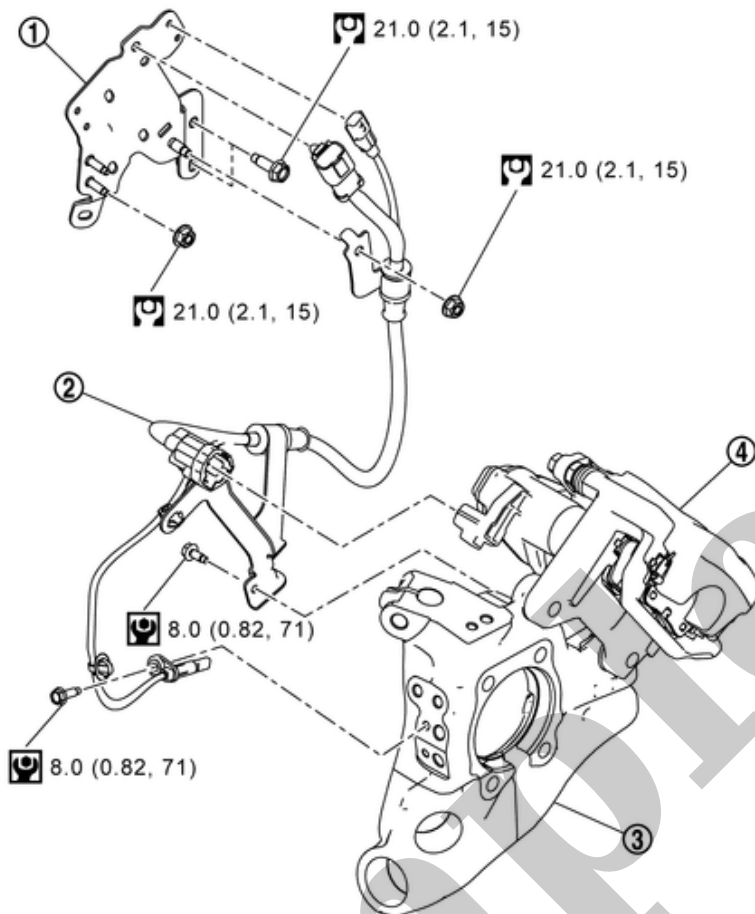
Install wheel bearing. Refer to [Removal and Installation](#).

Sample

REAR WHEEL SENSOR : Exploded View

RDE-001824933

SEC. 433



RDE-001824933-01-000347677

①	Bracket	②	Parking brake actuator harness LH and rear LH wheel sensor	③	Axle housing
④	Rear brake caliper				
	: Vehicle front				
	: N·m (kg-m, ft-lb)				
	: N·m (kg-m, in-lb)				



NOTE:

Rear RH wheel sensor is symmetrically opposite of LH.

REMOVAL

1 Turn power switch ON.

CAUTION:

Never put vehicle in READY state.

2 Release the parking brake.

CAUTION:

If parking brake cannot be released with parking brake switch, release it manually. Refer to [Work Procedure](#).

3 Turn power switch OFF.

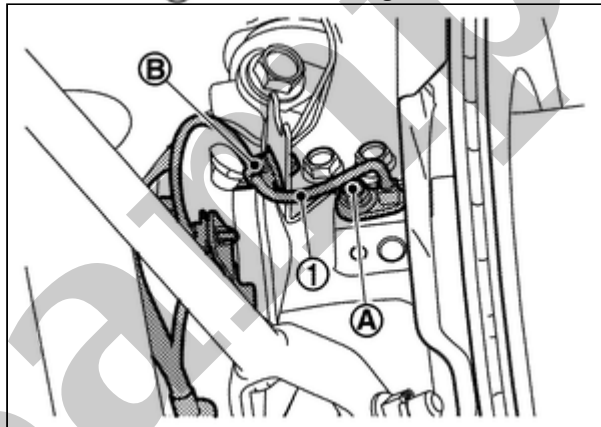
4 Disconnect 12V battery negative terminal. Refer to [Removal and Installation](#).

5 Remove rear tires. Refer to [Removal and Installation](#).

6 Remove rear wheel house protector. Refer to [Removal and Installation](#).

7 Remove vehicle side connectors of parking brake actuator harness and rear wheel sensor harness connector.

8 Remove parking brake actuator harness, rear wheel sensor harness mounting bolt (A), and harness clip (B) and then remove parking brake actuator harness and rear wheel sensor harness (1) from axle housing.

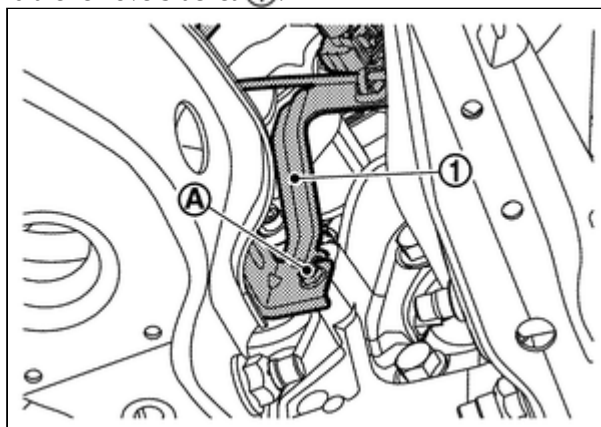


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CAUTION:

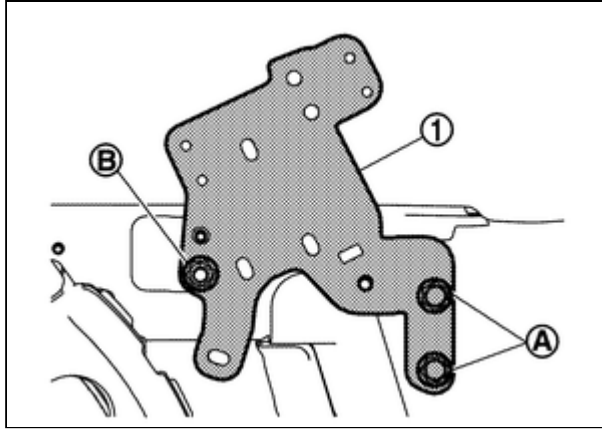
Never rotate and pull parking brake actuator harness and rear wheel sensor harness as much as possible, when taking them out.

9 Remove bracket mounting bolt (A) and the remove bracket (1).



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10 Remove bracket mounting bolts (A) and nuts (B) and then remove bracket (1) from vehicle.



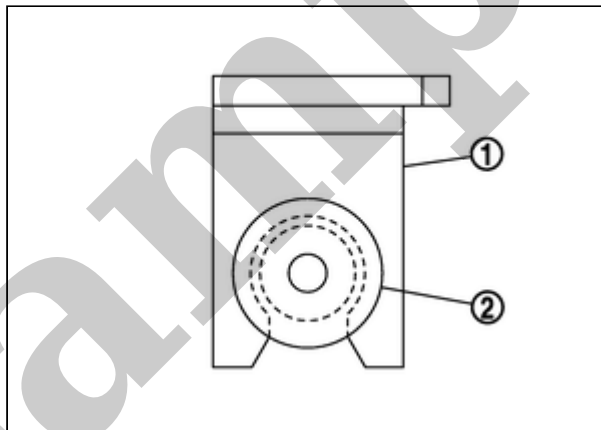
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11 Remove height sensor connector clip and harness clip from bracket (left side only).

INSTALLATION

Note the following, and install in the reverse order of removal.

- Check inner surface of rear wheel sensor mounting hole and sensor rotor for foreign material like iron powder or damage. Install after cleaning, if there are foreign materials like iron powder, or replace, if there is a malfunction.
- When rear wheel sensor is installed by securely pushing its grommet ② into bracket ①, but never twist rear wheel sensor harness. Check that grommet is fully inserted to bracket. Check rear wheel sensor harness for twisting after installation.



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CAUTION:

Since sensor rotor is not allowed to disassemble, replace wheel bearing assembly. if sensor rotor needs to be replaced.

REMOVAL

Remove wheel bearing. Refer to [Removal and Installation](#).

INSTALLATION

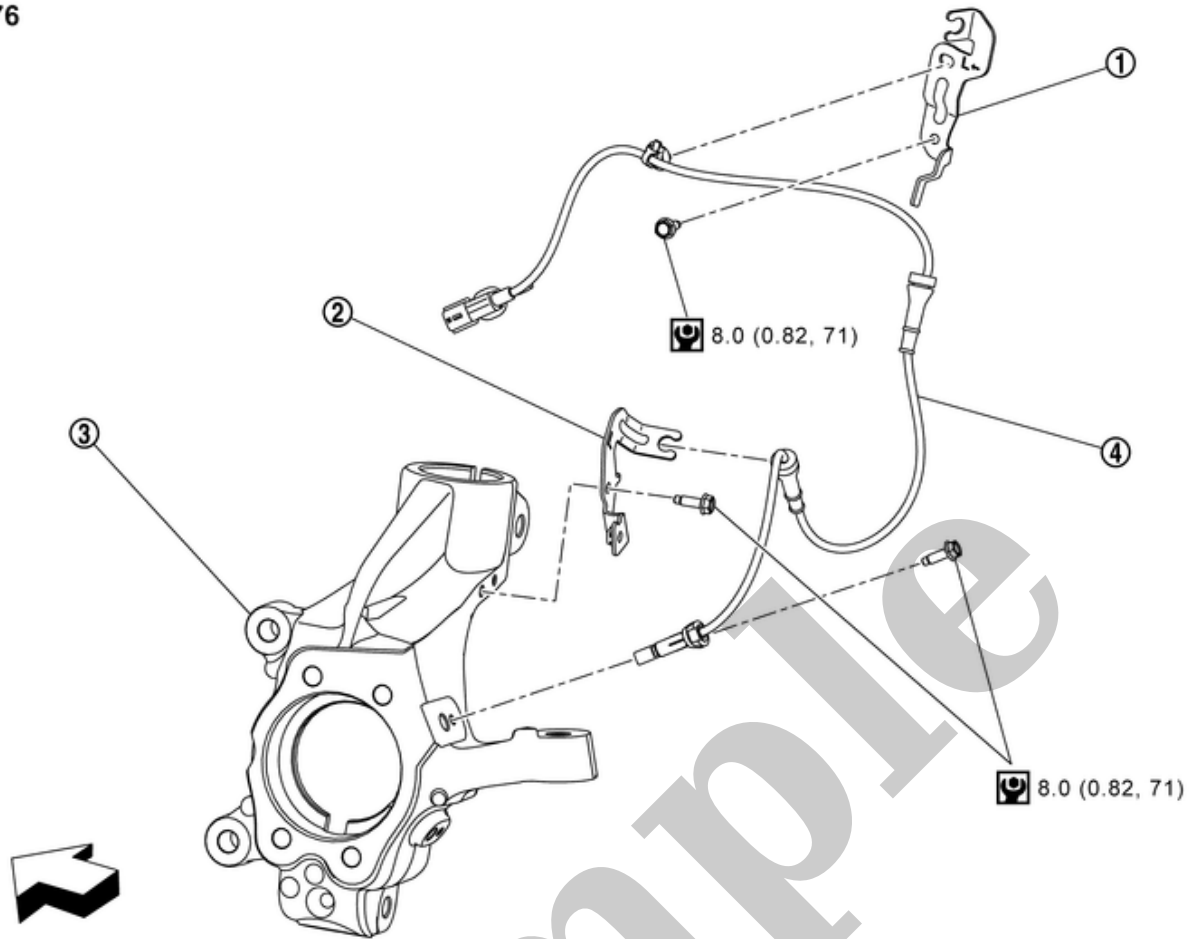
Install wheel bearing. Refer to [Removal and Installation](#).

Sample

FRONT WHEEL SENSOR : Exploded View

RDE-001824928

SEC. 476



RDE-001824928-02-000389448

①	Bracket	②	Bracket	③	Steering knuckle
④	Front LH wheel sensor				
←	: Vehicle front				
⊛	: N·m (kg-m, in-lb)				



NOTE:

Front RH wheel sensor is symmetrically opposite of LH.