

Your Ultimate Source for OEM Repair Manuals

FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

1996 NISSAN D21 Repair Manual

[Go to manual page](#)

CAUTION:

When performing the following operations, always use CONSULT (It cannot be performed by any means other than CONSULT.), for performing "INITIALIZATION POSITION ADJUSTMENT" of "Work support".

×: Required —: not required

Procedure	Initialization position adjustment
Removing/ installing ABS actuator and electric unit (control unit)	—
Replacing ABS actuator and electric unit (control unit)	×
Removing/ installing rear brake pad (When not pressing piston of rear brake caliper assembly)	—
Removing/ installing rear brake pad (When pressing piston of rear brake caliper assembly)	×
Replacing rear brake pad	×
Removing/ installing rear brake caliper assembly	—
Replacing rear brake caliper assembly	×
Replacing rear disc rotor	×
Removing/ installing parking brake switch	—
Replacing parking brake switch	—

CAUTION:

When performing the following operations, always use CONSULT. (It cannot be performed by any means other than CONSULT.)

1. PERFORM INITIALIZATION POSITION ADJUSTMENT

1. Select "ABS", "Work support", and "Initialization position adjustment" according to this order.

CAUTION:


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

2. Touch "START".

>>

[GO TO 2.](#)

2. PERFORM THE 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. Erase self-diagnosis results for "ABS".

5. Pull parking brake switch to activate electric parking brake.

6. Push parking brake switch to release electric parking brake.

7. Perform self-diagnosis for "ABS".

Is malfunction detected?

YES>>

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

NO>>

INSPECTION END

Sample

DETAILED FLOW

1. INTERVIEW FROM THE CUSTOMER

Clarify customer complaints before inspection. First of all, perform an interview utilizing diagnostic work sheet and reproduce the symptom as well as fully understand it. Ask customer about his/her complaints carefully. Check symptoms by driving vehicle with customer, if necessary. Refer to [Diagnostic Work Sheet](#).

CAUTION:

Customers are not professional. Never guess easily like “maybe the customer means that...,” or “ maybe the customer mentions this symptom”.

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[GO TO 2.](#)

2. CHECK SYMPTOM

Reproduce the symptom that is indicated by the customer, based on the information from the customer obtained by interview. Also check that the symptom is not caused by fail-safe mode. Refer to [Fail-safe](#).

CAUTION:

When the symptom is caused by normal operation, fully inspect each portion and obtain the understanding of customer that the symptom is not caused by a malfunction.

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[GO TO 3.](#)

3. PERFORM THE SELF-DIAGNOSIS

 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 detected?

YES>>

Record or print self-diagnosis results and freeze frame data (FFD). [GO TO 4.](#)

NO>>

4. PERFORM DTC DIAGNOSIS PROCEDURE

 With CONSULT

1. Erase self-diagnostic results for “ABS”.
2. Power switch OFF (Auto ACC is 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.
5. Perform confirmation procedures for the error-detected system.



NOTE:

If some DTCs are detected at the same time, determine the order for performing the diagnosis based on Refer to [DTC Inspection Priority Chart](#).

Is DTC detected?

YES>>

[GO TO 5.](#)

NO>>

Check harness and connectors based on the information obtained by interview. Refer to [Intermittent Incident](#).

5. REPAIR OR REPLACE ERROR-DETECTED PART

 With CONSULT

1. Repair or replace error-detected parts.
2. Reconnect part or connector after repairing or replacing.
3. When DTC is detected, erase self-diagnostic result for “ABS”.

CAUTION:

- Power switch OFF → ON → OFF after erase self-diagnosis result.
- Be sure to wait of 10 seconds after power switch OFF or ON.

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[GO TO 7.](#)

6. IDENTIFY ERROR-DETECTED SYSTEM BY SYMPTOM DIAGNOSIS

Estimate error-detected system based on symptom diagnosis and perform inspection.

Can the error-detected system be identified?

YES>>

[GO TO 7.](#)

NO>>

Check harness and connectors based on the information obtained by interview. Refer to [Intermittent Incident](#).

7. FINAL CHECK

 With CONSULT

1. Check the reference value for “ABS”.
2. Recheck the symptom and check that the symptom is not reproduced on the same conditions.

Is the symptom reproduced?

YES>>

[GO TO 3.](#)

NO>>


INSPECTION END

Sample

Description

- In general, customers have their own criteria for a problem. Therefore, it is important to understand the symptom and status well enough by asking the customer about his/her concerns carefully. To systemize all the information for the diagnosis, prepare the interview sheet referring to the interview points.
- In some cases, multiple conditions that appear simultaneously may cause a DTC to be detected.

INTERVIEW SHEET SAMPLE

Interview sheet				
Customer name	MR/MS	Registration number	Initial year registration	
		Vehicle type	VIN	
Storage date		Engine / Traction motor	Mileage	km (Mile)
Symptom	<input type="checkbox"/> Does not operate () function			
	<input type="checkbox"/> Warning lamp turns ON.			
	<input type="checkbox"/>  ABS <input type="checkbox"/>  BRAKE <input type="checkbox"/>  <input type="checkbox"/>  OFF <input type="checkbox"/>  (P) <input type="checkbox"/>			
	<input type="checkbox"/> PARK <input type="checkbox"/> 			
	<input type="checkbox"/> Other ()			
		<input type="checkbox"/> Noise (Location:) <input type="checkbox"/> Vibration (Location:)		
		<input type="checkbox"/> Other ()		
First occurrence		<input type="checkbox"/> Recently <input type="checkbox"/> Other ()		
Frequency of occurrence		<input type="checkbox"/> Always <input type="checkbox"/> Under a certain conditions of <input type="checkbox"/> Sometimes (time(s)/day)		
Climate conditions	<input type="checkbox"/> Irrelevant			
	Weather	<input type="checkbox"/> Fine <input type="checkbox"/> Cloud <input type="checkbox"/> Rain <input type="checkbox"/> Snow <input type="checkbox"/> Others ()		
	Temperature	<input type="checkbox"/> Hot <input type="checkbox"/> Warm <input type="checkbox"/> Cool <input type="checkbox"/> Cold <input type="checkbox"/> Temperature [Approx. °C (°F)]		
	Relative humidity	<input type="checkbox"/> High <input type="checkbox"/> Moderate <input type="checkbox"/> Low		
Road conditions		<input type="checkbox"/> Ordinary road <input type="checkbox"/> Highway <input type="checkbox"/> Mountainous road (uphill or downhill) <input type="checkbox"/> Rough road		
Operating condition, etc.		<input type="checkbox"/> Irrelevant		
		<input type="checkbox"/> When engine/traction motor starts <input type="checkbox"/> During idling		
		<input type="checkbox"/> During driving <input type="checkbox"/> During acceleration <input type="checkbox"/> At constant speed driving		
		<input type="checkbox"/> During deceleration		
		<input type="checkbox"/> Immediately before stop [Vehicle speed: Approx. km/h (MPH)]		
		<input type="checkbox"/> During cornering (right curve or left curve)		
		<input type="checkbox"/> When steering wheel is steered (to right or to left)		
Other conditions	VDC setting status	<input type="checkbox"/> On <input type="checkbox"/> Off		
	Use of other functions	<input type="checkbox"/> Yes <input type="checkbox"/> No ()		
	(ex. ICC)			

Interview sheet

Customer name	MR/MS	Registration number	Initial year registration	
		Vehicle type	VIN	
Storage date		Engine / Traction motor	Mileage	km (Mile)
	Presence of non-genuine parts installation	<input type="checkbox"/> Yes <input type="checkbox"/> No ()
Memo				

Sample

Always adjust the neutral position of steering angle sensor before driving when the following operation is performed.

×: Required —: Not required

Procedure	Adjust the neutral position of steering angle sensor
Removing/ installing ABS actuator and electric unit (control unit)	—
Replacing ABS actuator and electric unit (control unit)	—
Removing/installing steering angle sensor	×
Replacing steering angle sensor	×
Removing/installing steering components	×
Replacing steering components	×
Removing/installing front suspension components	×
Replacing front suspension components	×
Removing/installing tire	—
Replacing tire	—
Tire rotation	—
Adjusting front wheel alignment.	×

CAUTION:

Always use CONSULT when adjusting the neutral position of steering angle sensor. (It cannot be adjusted other than with CONSULT.)

1. CHECK THE VEHICLE STATUS (1)

Stop vehicle with front wheels in the straight-ahead position.

Does the vehicle stay in the straight-ahead position?

YES>>

[GO TO 2.](#)

NO>>

Steer the steering wheel to the straight-ahead position. Stop the vehicle.

2. ADJUST NEUTRAL POSITION OF STEERING ANGLE SENSOR

 With CONSULT

1. Set the vehicle to READY.

CAUTION:

To prevent a flat battery, set the vehicle to READY.



NOTE:

Do not turn air conditioner ON.

2. Select “ABS”, “Work support” and “Steering angle sensor adjustment” in this order.
3. Select “START”.

CAUTION:
Never touch steering wheel while adjusting steering angle sensor.

4. After approximately 10 seconds, select “END”.
5. Power switch OFF, and then turn it ON again.

CAUTION:
Be sure to perform the operation above.

>>

[GO TO 3.](#)

3. CHECK DATA MONITOR (1)

 With CONSULT

1. The vehicle is either pointing straight ahead, or the vehicle needs to be moved. Stop when it is pointing straight ahead.
2. Select “ABS”, “Data monitor”, and “Steering angle” in the order. Check that the signal is within the specified value. Refer to [Values On The Diagnosis Tool](#).

Is the inspection result normal?

YES>>

[GO TO 10.](#)

NO>>

[GO TO 4.](#)

4. CHECK STEERING COMPONENT PARTS

Check the installation condition of steering component parts. Refer to [STEERING WHEEL : Periodic Maintenance Operation](#).

Is the inspection result normal?

YES>>

[GO TO 5.](#)

NO>>

Repair or replace error-detected parts. [GO TO 5.](#)

5. CHECK FRONT SUSPENSION COMPONENT PARTS

Check the installation condition of front suspension component parts. Refer to [FRONT SUSPENSION ASSEMBLY : Periodic Maintenance Operation](#).

Is the inspection result normal?

YES>>

[GO TO 6.](#)

NO>>