

# 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.

## 1986 NISSAN 300 ZX OEM Service and Repair Workshop Manual

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Item	Unit	Note
Battery voltage	V	Displays the 12V battery power supply voltage value applied to electrically-driven intelligent brake unit.
Control module voltage	mV	Displays the power switch ON power supply voltage value applied to electrically-driven intelligent brake unit.
Stroke sensor	V	Displays the output voltage of stroke sensor.
Front LH wheel speed	—	Displays but not used.
Front RH wheel speed	—	Displays but not used.
Rear LH wheel speed	—	Displays but not used.
Rear RH wheel speed	—	Displays but not used.
Vehicle speed 1	—	Displays but not used.
Forward / backward judgment	—	Displays but not used.
Backup power supply volt	V	Displays the power supply voltage value applied to brake power supply backup unit.
Odometer	m	Displays the mileage.
Wheel speed 1	kph	Displays the wheel speed of drive wheel.
Wheel speed 2	kph	Displays the wheel speed of passive wheel.
Brake fluid pressure	Mpa	Displays the brake fluid pressure.
External brake request	1 / 2 / 3 / 4	Displays the request status of except driver brake.

## ACTIVE TEST

The active test is used to determine and identify details of a malfunction, based on self-diagnosis test result and data obtained in the Data monitor. In response to instructions from CONSULT, instead of those from electrically-driven intelligent brake unit on the vehicle, a drive signal is sent to the actuator to check its operation.

### CAUTION:

- Never perform Active test while driving the vehicle.
- Always bleed air from brake system before active test.
- Never perform active test when system is malfunctioning.



### NOTE:

- When performing active test again after “TEST IS STOPPED” is displayed, select “BACK”.
- Brake warning lamp and brake system warning lamp may turn ON during active test. This is not a malfunction.
- Perform all self-diagnosis and delete stored DTC after execute Active test.

## Warning Buzzer

Item	Note
Buzzer	Activate the buzzer.

## ECU IDENTIFICATION

Electrically-driven intelligent brake unit part number can be read.

## **REPLACE ECU**

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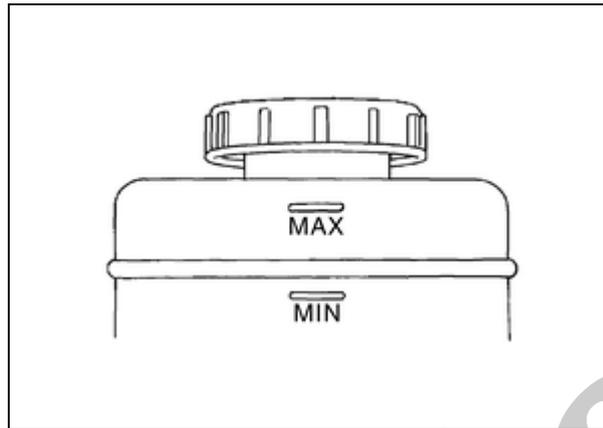
Write the vehicle specification when replacing electrically-driven intelligent brake unit.

Sample

## BRAKE FLUID LEVEL

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- Check that the brake fluid level in the reservoir tank is within the standard (between MAX – MIN lines).



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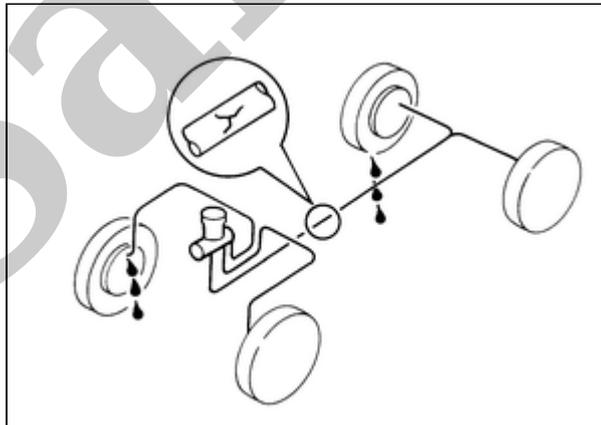
- Visually check for any brake fluid leakage around the reservoir tank.
- Check the brake system for any leakage if the fluid level is extremely low (lower than MIN).
- Check the brake system for fluid leakage if the warning lamp remains illuminated even after the parking brake is released.
- Check the reservoir tank for the mixing of foreign matter (e.g. dust) and oils other than brake fluid.

## BRAKE LINE

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1 Check brake line (tubes and hoses) for cracks, deterioration or other damage. Replace any damaged parts.

2 Depress the brake pedal with a force of 785 N (80 kg, 176 lb) and hold down the pedal for approximately 5 seconds with the engine running. Check for any fluid leakage.



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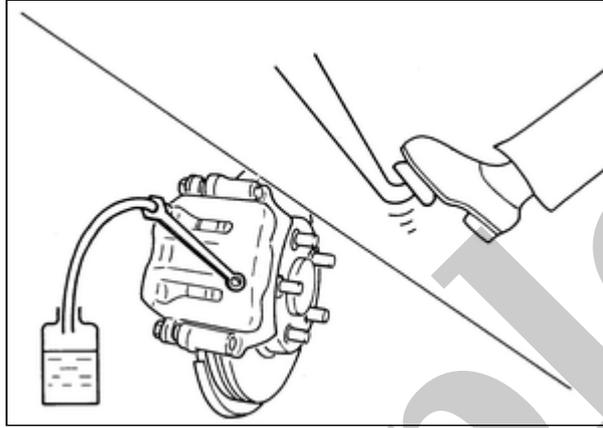
### CAUTION:

Retighten the applicable connection to the specified torque and repair any abnormal (damaged, worn or deformed) part if any brake fluid leakage is present.

## CAUTION:

- **Never spill or splash brake fluid on painted surfaces. Brake fluid may seriously damage paint. Wipe it off immediately and wash with water if it gets on a painted surface. For brake component parts, never wash them with water.**
- **Ignition switch OFF and disconnect the ABS actuator and electric unit (control unit) harness connector or the battery negative terminal before performing work.**

1 Connect a vinyl tube to the bleed valve.



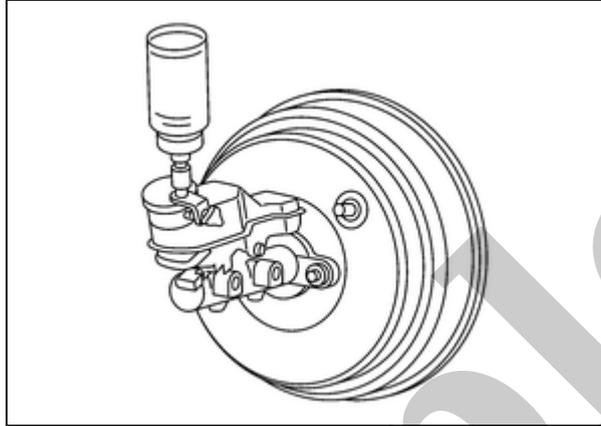
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2 Depress the brake pedal and loosen the bleeder valve to gradually discharge brake fluid.

**CAUTION:**

- **Ignition switch OFF and disconnect the ABS actuator and electric unit (control unit) harness connector or the battery negative terminal before performing work.**
- **Never spill or splash brake fluid on painted surfaces. Brake fluid may seriously damage paint. Wipe it off immediately and wash with water if it gets on a painted surface. For brake component parts, never wash them with water.**

1 Check that there is no foreign material in the reservoir tank, and refill with new brake fluid.



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**CAUTION:**

- **Never reuse drained brake fluid.**
- **Never allow foreign matter (e.g. dust) and oils other than brake fluid to enter the reservoir tank.**

2 Loosen the bleeder valve, slowly depress the brake pedal to the full stroke, and then release the pedal. Repeat this operation at intervals of 2 or 3 seconds until new brake fluid is discharged. Then close the bleeder valve with the brake pedal depressed. Repeat the same work on each wheel.

3 Perform the air bleeding. Refer to [Bleeding Brake System](#).

## CAUTION:

- **Ignition switch OFF and disconnect the ABS actuator and electric unit (control unit) harness connector or the battery negative terminal before performing the work.**
- **Monitor the fluid level in the reservoir tank while performing the air bleeding**
- **Never spill or splash brake fluid on painted surfaces. Brake fluid may seriously damage paint. Wipe it off immediately and wash with water if it gets on a painted surface. For brake component parts, never wash them with water.**
- **Never allow foreign matter (e.r.dust) and oil other than brake fluid to enter the reservoir tank.**

1 Connect a vinyl tube to the bleeder valve of the rear right brake.

2 Fully depress the brake pedal 4 to 5 times.

3 Loosen the bleeder valve and bleed air with the brake pedal depressed, and then quickly tighten the bleeder valve.

4 Repeat steps 2 and 3 until all of the air is out of the brake line.

5 In case of rear brake caliper with electric parking brake system, operate parking brake 5 times to bleed the air.

6 Tighten the bleeder valve to the specified torque.

- Front disc brake: Refer to [Exploded View](#) .
- Rear disc brake: Refer to [Exploded View](#).

7 Perform steps 2 to 6. Occasionally fill with the brake fluid in order to keep it in the reservoir tank at least half of MAX line. Bleed air in the following order: rear right brake → front left brake → rear left brake → and front right brake in order.

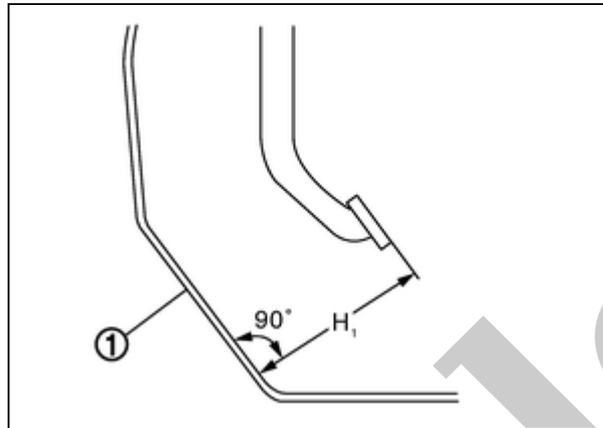
8 Check that the fluid level in the reservoir tank is within the specified range after air bleeding. Refer [Brake Fluid](#).

9 Check each item of brake pedal. Adjust it if the measurement value is not the standard. Refer [Brake Pedal](#).

## INSPECTION

### Brake Pedal Height

Check the height ( $H_1$ ) between the floor panel ① and the brake pedal upper surface.



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$H_1$

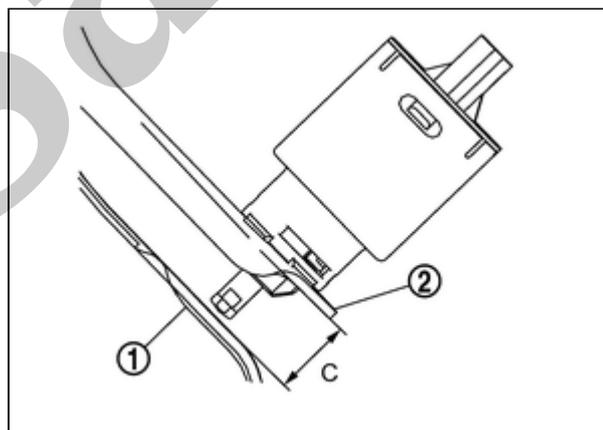
: Refer to [Brake Pedal](#) .

#### CAUTION:

Remove the front floor carpet.

### Stop Lamp Switch

Check the clearance (C) among the lever ① and the stop lamp switch mounting bracket ②.



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C

: Refer to [Brake Pedal](#) .

#### CAUTION:

The stop lamp must turn off when the brake pedal is released.

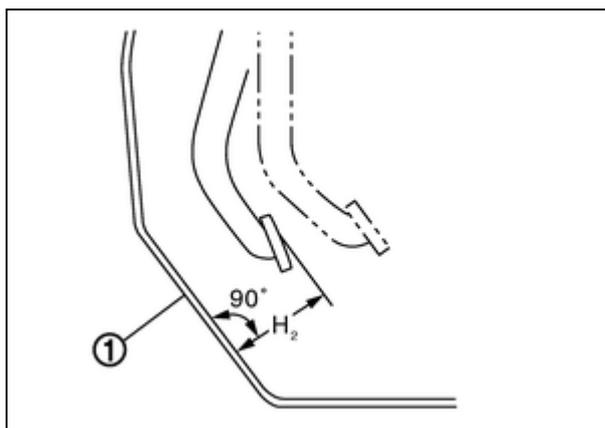


#### NOTE:

When the checking the clearance of the stop lamp switch, do not touch the brake pedal (pad).

## Depressed Brake Pedal Height

Check the height between the floor panel ① and the brake pedal upper surface ( $H_2$ ) when depressing the brake pedal at 490 N (50 kg, 110 lb) while engine ON.



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$H_2$

: Refer to [Brake Pedal](#) .

### CAUTION:

Remove the front floor carpet.

## ADJUSTMENT

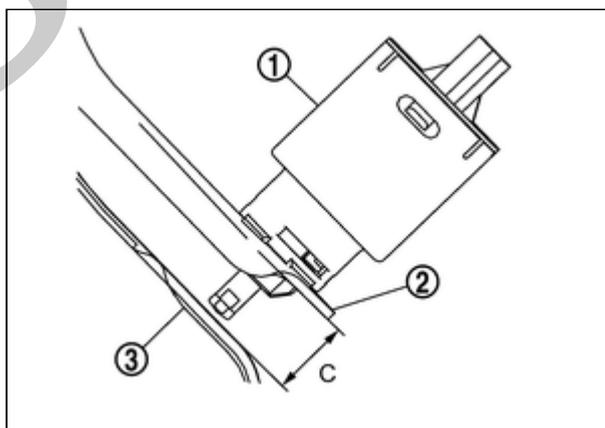
### Stop Lamp Switch

1 Remove instrument lower panel. Refer to [Removal & Installation](#) .

2 Disconnect the stop lamp switch harness connector.

3 Loosen the stop lamp switch 90° counterclockwise.

4 The stop lamp switch ① penetrate the clip hole of stop lamp switch mounting bracket ② and firmly push the stop lamp switch against the lever ③. (Do not touch the pedal during installing stop lamp switch.) And, turn the stop lamp switch clockwise (about 90°) until the stop lamp switch.



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### CAUTION:

- The clearance (C) between the brake pedal bracket and stop lamp switch mounting bracket must be the specified value.

C

: Refer to [Brake Pedal](#) .

- The stop lamp must be turned off when the brake pedal is released.

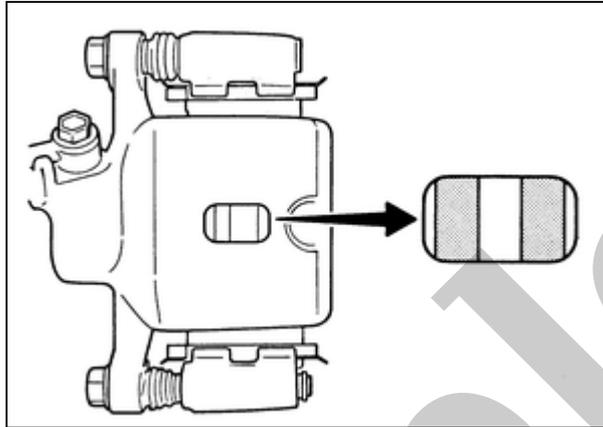
## Brake pad wear inspection

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Check the brake pad thickness from the inspection hole in the cylinder body. Use a scale to check it if necessary.

**NOTE:**

**Brake caliper without electric parking brake system shown, brake caliper with electric parking brake system similar.**



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Wear limit thickness

: Refer to [Rear Disc Brake](#).

## ADJUSTMENT

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If the brake pad is ground or replaced, or if there is an abnormal feel to the braking force, follow the procedure below and perform break-in work.

**CAUTION:**

- **Because the brake effectiveness is reduced, pay sufficient attention to the vehicle speed.**
- **Perform checks on a safe road and be careful of the traffic conditions.**

1 Drive on straight and flat roads.

2 Stop the vehicle by depressing the brake pedal to generate braking force that stops the vehicle in 3 to 5 seconds.

3 Cool the brakes.

4 Repeat steps 1 to 3 until the abnormal feel in braking force disappears.