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1991 NISSAN 300 ZX OEM Service and Repair Workshop Manual

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10. Select “BRAKE” and “Data monitor”, check “Front LH wheel speed”, “Front RH wheel speed”, “Rear LH wheel speed”, and “Rear RH wheel speed”.



NOTE:

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

11. 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 wheel speed detected by rear left wheel sensor and the maximum/minimum wheel speed detected by the other rear left 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.
3. Power switch OFF to ON without depressing the brake pedal.

CAUTION:

Never set the vehicle to READY.

4. Power switch OFF and disconnect CONSULT from data link connector.
5. 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.

6. Power switch ON without depressing the brake pedal.

CAUTION:

Never set the vehicle to READY.

7. Erase self-diagnosis result for “BRAKE”.
8. Power switch OFF and disconnect CONSULT from data link connector.
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 “BRAKE”.

Is DTC “B14E2-38” detected?

YES>>

[GO TO 19.](#)

NO>>

INSPECTION END

19. CHECK WHEEL SENSOR HARNESS

1. Power switch OFF and disconnect CONSULT from data link connector.

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. Disconnect 12V battery negative terminal.

4. Disconnect electrically-driven intelligent brake unit harness connector.

5. Disconnect rear left wheel sensor harness connector.

6. Check the continuity between electrically-driven intelligent brake unit harness connector and rear left wheel sensor harness connector.

Electrically-driven intelligent brake unit		—	Continuity
Connector	Terminal		
B64	3, 19	Ground	Not existed

Is the inspection result normal?

YES>>

[GO TO 20.](#)

NO>>

Repair / replace harness or connector. [GO TO 20.](#)

20. CHECK DATA MONITOR (4)

 With CONSULT

1. Connect ABS actuator and electric unit (control unit) harness connector.

2. Connect rear left wheel sensor harness connector.

3. Connect 12V battery negative terminal.

4. Power switch OFF to ON without depressing the brake pedal.

CAUTION:

Never set the vehicle to READY.

5. Power switch OFF and disconnect CONSULT from data link connector.
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. Power switch ON without depressing the brake pedal.

CAUTION:

Never set the vehicle to READY.

8. Set the vehicle to READY.
9. Erase self-diagnosis result for "BRAKE".
10. Select "BRAKE" and "Data monitor", check "Front LH wheel speed", "Front RH wheel speed", "Rear LH wheel speed", and "Rear RH wheel speed".

**NOTE:**

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

11. 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 wheel speed detected by rear left wheel sensor and the maximum/minimum wheel speed detected by the other rear left 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.
3. Power switch OFF to ON without depressing the brake pedal.

CAUTION:

Never set the vehicle to READY.

4. Power switch OFF and disconnect CONSULT from data link connector.
5. 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.

6. Power switch ON without depressing the brake pedal.

CAUTION:

Never set the vehicle to READY.

7. Erase self-diagnosis result for "BRAKE".
8. Power switch OFF and disconnect CONSULT from data link connector.
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 "BRAKE".

Is DTC "B14E2-38" detected?

YES>>

[GO TO 22.](#)

NO>>

INSPECTION END

22. REPLACE WHEEL SENSOR (2)

 With CONSULT

1. Replace the rear left wheel sensor. Refer to [REAR WHEEL SENSOR : Removal & Installation](#).
2. Power switch OFF to ON without depressing the brake pedal.

CAUTION:

Never set the vehicle to READY.

3. Power switch OFF and disconnect CONSULT from data link connector.
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. Power switch ON without depressing the brake pedal.

CAUTION:

Never set the vehicle to READY.

6. Set the vehicle to READY.
7. Erase self-diagnosis result for "BRAKE".
8. Select "BRAKE" and "Data monitor", check "Front LH wheel speed", "Front RH wheel speed", "Rear LH wheel speed", and "Rear RH 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 wheel speed detected by rear left wheel sensor and the maximum/minimum wheel speed detected by the other rear left wheel sensor, is the difference within 5%, respectively?

YES>>

[GO TO 23.](#)

NO>>

[GO TO 24.](#)

23. PERFORM SELF-DIAGNOSIS (7)

 With CONSULT

1. Stop the vehicle.
2. Power switch OFF.
3. Power switch OFF to ON without depressing the brake pedal.

CAUTION:

Never set the vehicle to READY.

4. Power switch OFF and disconnect CONSULT from data link connector.
5. 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.

6. Power switch ON without depressing the brake pedal.

CAUTION:

Never set the vehicle to READY.

7. Erase self-diagnosis result for "BRAKE".
8. Power switch OFF and disconnect CONSULT from data link connector.
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 “BRAKE”.

Is DTC “B14E2–38” detected?

YES>>

[GO TO 23.](#)

NO>>

INSPECTION END

24. REPLACE SENSOR ROTOR

 With CONSULT

1. Replace the rear left sensor rotor. Refer to [REAR SENSOR ROTOR : Removal & Installation.](#)
2. Power switch OFF to ON without depressing the brake pedal.

CAUTION:
Never set the vehicle to READY.

3. Power switch OFF and disconnect CONSULT from data link connector.
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. Power switch ON without depressing the brake pedal.

CAUTION:
Never set the vehicle to READY.

6. Erase self-diagnosis result for “BRAKE”.
7. Set the vehicle to READY.
8. 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.

9. Stop the vehicle.
10. Power switch OFF and disconnect CONSULT from data link connector.
11. 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.

12. Power switch ON without depressing the brake pedal.

CAUTION:

Never set the vehicle to READY.

13. Perform self-diagnosis for “BRAKE”.

Is DTC “B14E2–38” detected?

YES>>

Replace the electrically-driven intelligent brake unit. Refer to [Removal and Installation](#).

NO>>

INSPECTION END

Sample

DTC DETECTION LOGIC

DTC No.		CONSULT screen terms	DTC detection condition	
B14E2	4A	Wheel sensor	Diagnosis condition	Power switch is ON.
			Signal (terminal)	Rear left wheel sensor signal
			Threshold	When rear left wheel sensor is installed to wrong position.
			Diagnosis delay time	3 seconds or less

POSSIBLE CAUSE

- Rear left wheel sensor
- Electrically-driven intelligent brake unit

FAIL-SAFE

The following functions are suspended.

- Cooperative regenerative brake function
- e-Step function

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.

CAUTION:
Never operate the vehicle.

>>

[GO TO 2.](#)

2. CHECK DTC DETECTION

 With CONSULT

1. Power switch OFF to ON without depressing the brake pedal.

CAUTION:
Never set the vehicle to READY.

2. Power switch OFF and disconnect CONSULT from data link connector.
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. Erase self-diagnosis result for “BRAKE”.
6. Power switch OFF and disconnect CONSULT from data link connector.
7. 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.

8. Power switch ON without depressing the brake pedal.

CAUTION:
Never set the vehicle to READY.

9. Perform self-diagnosis for “BRAKE”.

Is DTC “B14E2-4A” detected?

YES>>