

# 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.

## 1990 NISSAN 200 SX OEM Service and Repair Workshop Manual

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**NOTE:**

If the red SENSOR indicator illuminates but does not flash, reverse the polarity of the tester leads and retest.

Does the ABS active wheel sensor tester detect a signal?

YES>>

Replace the electrically-driven intelligent brake unit. Refer to [ELECTRICALLY-DRIVEN INTELLIGENT BRAKE UNIT : Removal & Installation](#).

NO>>

[GO TO 12.](#)

## 12. REPLACE WHEEL SENSOR

1. Replace the front right wheel sensor. Refer to [Removal and Installation](#).
2. Connect electrically-driven intelligent brake unit 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. Erase self-diagnosis result for “BRAKE”.
9. Power switch OFF and disconnect CONSULT from data link connector.
10. 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.**

11. Power switch ON without depressing the brake pedal.

**CAUTION:**

**Never set the vehicle to READY.**

12. Perform self-diagnosis for “BRAKE”.

Is DTC “B14E1-11” 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 |  |
|---------|----|----------------------|-------------------------|--|
| B14E1   | 12 | Wheel sensor         | Diagnosis condition     | Power switch is ON.  |
|         |    |                      | Signal (terminal)       | Front right wheel sensor signal  |
|         |    |                      | Threshold               | When short circuit to power supply side is detected in front right wheel sensor circuit (signal line). |
|         |    |                      | Diagnosis delay time    | 1 second or less   |

## POSSIBLE CAUSE

- Harness or connector
- Front right wheel sensor

## FAIL-SAFE

The following functions are suspended.

- Cooperative regenerative brake function
- e-Step function

## 1. PRECONDITIONING

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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

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 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 “B14E1-12” detected?

YES>>

Refer to [DTC Diagnosis Procedure](#).

NO-1>>

To check malfunction symptom before repair: Refer to [Intermittent Incident](#).

NO-2>>

Confirmation after repair: INSPECTION END

Sample

**CAUTION:**

Never check between wheel sensor harness connector terminals.

## 1. CHECK 12V BATTERY

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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. Check the 12V battery terminal connections.
4. Check the 12V battery.

Is the inspection result normal?

YES>>

[GO TO 2.](#)

NO>>

Repair or replace error-detected parts. [GO TO 2.](#)

## 2. PERFORM SELF-DIAGNOSIS (1)

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 With CONSULT

1. Connect 12V battery cable to negative terminal.
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. Power switch OFF and disconnect CONSULT from data link connector.
8. 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.

9. Power switch ON without depressing the brake pedal.

**CAUTION:**  
Never set the vehicle to READY.

10. Perform self-diagnosis for "BRAKE".

Is DTC "B14E1-12" detected?

YES>>

[GO TO 3.](#)

NO>>

INSPECTION END

### 3. CHECK WHEEL SENSOR

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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. Check the front right wheel sensor for damage.

Is the inspection result normal?

YES>>

[GO TO 5.](#)

NO>>

[GO TO 4.](#)

### 4. REPLACE WHEEL SENSOR (1)

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 With CONSULT

1. Replace the front right wheel sensor. Refer to [Removal and Installation](#).
2. Connect 12V battery negative terminal.
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 "B14E1-12" detected?

YES>>

[GO TO 5.](#)

NO>>

INSPECTION END

## 5. CHECK CONNECTOR

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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. Check the electrically-driven intelligent brake unit harness connector for disconnection or looseness.
5. Check the front right wheel sensor harness connector for disconnection or looseness.

Is the inspection result normal?

YES>>

[GO TO 7.](#)

NO>>

Repair / replace harness or connector, securely lock the connector. [GO TO 6.](#)

## 6. PERFORM SELF-DIAGNOSIS (2)

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 With CONSULT

1. Connect 12V battery negative terminal.
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. Power switch OFF and disconnect CONSULT from data link connector.
8. 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.

9. Power switch ON without depressing the brake pedal.

**CAUTION:**  
Never set the vehicle to **READY**.

10. Perform self-diagnosis for “BRAKE”.

Is DTC “B14E1-12” detected?

YES>>

[GO TO 7.](#)

NO>>

INSPECTION END

## 7. CHECK ELECTRICALLY-DRIVEN INTELLIGENT BRAKE UNIT POWER SUPPLY AND GROUND CIRCUIT

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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.