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## 1991 NISSAN Primera Wagon OEM Service and Repair Workshop Manual

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Sample

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SIEMD-7200436

# DTC DETECTION LOGIC

| DTC No. | | CONSULT screen terms | DTC detection condition | | |
|---|---|---|---|---|---|
| B14E3 | 13 | Wheel sensor | 1 | Diagnosis condition | Power switch is ON. |
| | | | | Signal (terminal) | Rear right wheel sensor signal |
| | | | | Threshold | When an open circuit is detected in rear right wheel sensor circuit (power supply line). |
| | | | | Diagnosis delay time | 1 second or less |
| | | | 2 | Diagnosis condition | Power switch is ON. |
| | | | | Signal (terminal) | Rear right wheel sensor signal |
| | | | | Threshold | When short circuit to ground side is detected in rear right wheel sensor circuit (power supply line). |
| | | | | Diagnosis delay time | 1 second or less |

# POSSIBLE CAUSE

- Harness or connector
- Rear right wheel sensor

# FAIL-SAFE

The following functions are suspended.

- Cooperative regenerative brake function
- e-Step function

Sample

SIEMD-7200437

## 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 “B14E3–13" detected?

YES>>

Sample

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

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**CAUTION:**
**Never check between wheel sensor harness connector terminals.**

## 1. CHECK 12V BATTERY

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)

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.

Sample

**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 "B14E3–13" detected?

YES>>

GO TO 3.

NO>>

INSPECTION END

## 3. CHECK WHEEL SENSOR

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 rear right wheel sensor for damage.

Is the inspection result normal?

YES>>

GO TO 5.

NO>>

GO TO 4.

## 4. REPLACE WHEEL SENSOR (1)

With CONSULT

1. Replace the rear right wheel sensor. Refer to REAR WHEEL SENSOR : Removal & 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.

Sample

**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 “B14E3–13” detected?

YES>>

GO TO 5.

NO>>

INSPECTION END

## 5. CHECK CONNECTOR

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 rear 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.

Sample

## 6. PERFORM SELF-DIAGNOSIS (2)

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 “B14E3–13” detected?

YES>>

GO TO 7.

NO>>

INSPECTION END

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

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.

Sample

**CAUTION:**
**Never operate the vehicle.**

3. Disconnect 12V battery negative terminal.
4. Disconnect electrically-driven intelligent brake unit harness connector.
5. Check the electrically-driven intelligent brake unit power supply and ground circuit. Refer to Diagnosis Procedure.

Is the inspection result normal?

YES>>

GO TO 8.

NO>>

Repair / replace harness, connector, terminal, fuse, or fusible link. GO TO 8.

## 8. PERFORM SELF-DIAGNOSIS (3)

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 “B14E3–13” detected?

YES>>

Sample

GO TO 9.

NO>>

INSPECTION END

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

- Measurement connector and terminal for power supply circuit

| Electrically-driven intelligent brake unit | | Rear right wheel sensor | | Continuity |
|---|---|---|---|---|
| Connector | Terminal | Connector | Terminal | |
| B64 | 7 | B181 | 1 | Existed |

- Measurement connector and terminal for signal circuit

| Electrically-driven intelligent brake unit | | Rear right wheel sensor | | Continuity |
|---|---|---|---|---|
| Connector | Terminal | Connector | Terminal | |
| B64 | 15 | B181 | 2 | Existed |

Is the inspection result normal?

YES>>

GO TO 12.

NO>>

Repair / replace harness or connector. GO TO 10.

## 10. PERFORM SELF-DIAGNOSIS (4)

With CONSULT

1. Connect electrically-driven intelligent brake unit harness connector.
2. Connect rear right 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.**

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