

# Your Ultimate Source for OEM Repair Manuals

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## 1989 NISSAN Maxima OEM Service and Repair Workshop Manual

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YES>>

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

NO>>

[GO TO 11.](#)

## 11. REPLACE WHEEL SENSOR (1)

 With CONSULT

1. Replace the front left 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. Set the vehicle to READY.
8. Erase self-diagnosis result for "BRAKE".
9. 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".

10. 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 front left wheel sensor and the maximum/minimum wheel speed detected by the other front left wheel sensor, is the difference within 5%, respectively?

YES>>

[GO TO 12.](#)

NO>>

## 12. PERFORM SELF-DIAGNOSIS (3)

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 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 “B14E0-38” detected?

YES>>

[GO TO 24.](#)

NO>>

INSPECTION END

## 13. 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 left wheel sensor harness connector for disconnection or looseness.

Is the inspection result normal?

YES>>

[GO TO 16.](#)

NO>>

Repair / replace harness or connector, securely lock the connector. [GO TO 14.](#)

## 14. CHECK DATA MONITOR (2)

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

8. 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 front left wheel sensor and the maximum/minimum wheel speed detected by the other front left wheel sensor, is the difference within 5%, respectively?

YES>>

[GO TO 15.](#)

NO>>

[GO TO 16.](#)

## 15. PERFORM SELF-DIAGNOSIS (4)

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 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 "B14E0-38" detected?

YES>>

[GO TO 16.](#)

NO>>

## 16. CHECK TERMINAL

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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. Disconnect electrically-driven intelligent brake unit harness connector.
5. Check the electrically-driven intelligent brake unit terminals for damage or loose connection with harness connector.
6. Disconnect front left wheel sensor harness connector.
7. Check the front left wheel sensor terminals for damage or loose connection with harness connector.

Is the inspection result normal?

YES>>

[GO TO 19.](#)

NO>>

Repair / replace harness, connector, or terminal. [GO TO 17.](#)

## 17. CHECK DATA MONITOR (3)

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 With CONSULT

1. Connect electrically-driven intelligent brake unit harness connector.
2. Connect front 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 front left wheel sensor and the maximum/minimum wheel speed detected by the other front 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 “B14E0-38” 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 front left wheel sensor harness connector.
6. Check the continuity between electrically-driven intelligent brake unit harness connector and front left wheel sensor harness connector.

Electrically-driven intelligent brake unit		—	Continuity
Connector	Terminal		
B64	4, 21	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 front 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 front left wheel sensor and the maximum/minimum wheel speed detected by the other front 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 “B14E0-38” detected?

YES>>

[GO TO 22.](#)

NO>>

INSPECTION END

## 22. REPLACE WHEEL SENSOR (2)

 With CONSULT

1. Replace the front left wheel sensor. Refer to [Removal and 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.