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1990 NISSAN Skyline GT-R (R32) OEM Service and Repair Workshop Manual

Go to manual page

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 “B14E2–12” 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 left 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)

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 “B14E2–12” 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.

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 “B14E2–12” detected?

YES>>

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

- Measurement connector and terminal for power supply circuit

Electrically-driven intelligent brake unit		Rear left wheel sensor		Continuity
Connector	Terminal	Connector	Terminal	
B64	3	B179	1	Existed

- Measurement connector and terminal for signal circuit

Electrically-driven intelligent brake unit		Rear left wheel sensor		Continuity
Connector	Terminal	Connector	Terminal	
B64	19	B179	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 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. 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 “B14E2–12” detected?

YES>>

GO TO 11.

NO>>

INSPECTION END

11. CHECK WHEEL SENSOR OUTPUT SIGNAL

1. Disconnect 12V battery negative terminal.
2. Disconnect electrically-driven intelligent brake unit harness connector.
3. Disconnect rear left wheel sensor harness connector.
4. Connect ABS active wheel sensor tester (SST: J-45741-A) to rear left wheel sensor using appropriate adapter.
5. Turn the ABS active wheel sensor tester power switch ON.

NOTE:
The green POWER indicator should illuminate. If the POWER indicator does not illuminate, replace the battery in the ABS active wheel sensor tester before proceeding.

6. Spin the wheel of the vehicle by hand and observe the red SENSOR indicator on the ABS active wheel sensor tester. The red SENSOR indicator should flash ON and OFF to indicate an output signal.

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 rear left wheel sensor. Refer to REAR WHEEL SENSOR : Removal & 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 “B14E2–12” detected?

YES>>

Replace the electrically-driven intelligent brake unit. Refer to Removal and Installation.

NO>>

INSPECTION END

SIEMD-7200408

DTC DETECTION LOGIC

DTC No.		CONSULT screen terms	DTC detection condition		
B14E2	13	Wheel sensor	1	Diagnosis condition	Power switch is ON.
				Signal (terminal)	Rear left wheel sensor signal
				Threshold	When an open circuit is detected in rear left wheel sensor circuit (power supply line).
				Diagnosis delay time	1 second or less
			2	Diagnosis condition	Power switch is ON.
				Signal (terminal)	Rear left wheel sensor signal
				Threshold	When short circuit to ground side is detected in rear left wheel sensor circuit (power supply line).
				Diagnosis delay time	1 second or less

POSSIBLE CAUSE

- Harness or connector
- Rear left wheel sensor

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 “B14E2–13" detected?

YES>>