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1994 NISSAN Skyline GT-R V-Spec (R32) OEM Service and Repair Workshop Manual

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DTC DETECTION LOGIC

DTC No.		CONSULT screen terms	DTC detection condition	
C18D2	12	Backup power supply unit	Diagnosis condition	When power switch is ON.
			Signal (terminal)	Brake power supply backup unit signal
			Threshold	When a malfunction is detected in the brake power supply backup unit (discharge circuit open).
			Diagnosis delay time	1 second or less

POSSIBLE CAUSE

Brake power supply backup unit

FAIL-SAFE

The following functions are suspended.

Power supply from the brake power supply backup unit

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 “C18D2-12” 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

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 OFF to 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 OFF to ON without depressing the brake pedal.

CAUTION:

Never set the vehicle to READY.

10. Perform self-diagnosis for “BRAKE”.

Is DTC "C18D2-12" detected?

YES>>

[GO TO 3.](#)

NO>>

INSPECTION END

3. CHECK CONNECTOR TERMINALS

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 cable from negative terminal.
4. Disconnect electrically-driven intelligent brake unit harness connector, then check for malfunctions of terminals and connections.
5. Disconnect brake power supply backup unit harness connector, then check for malfunctions of terminals and connections.

Is the inspection result normal?

YES>>

[GO TO 5.](#)

NO>>

Repair / replace harness, connector, or terminal. [GO TO 4.](#)

4. PERFORM SELF-DIAGNOSIS (2)

 With CONSULT

1. Connect electrically-driven intelligent brake unit harness connector.
2. Connect brake power supply backup unit harness connector.
3. Connect 12V battery cable to 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 OFF to 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 OFF to ON without depressing the brake pedal.

CAUTION:
Never set the vehicle to READY.

12. Perform self-diagnosis for "BRAKE".

Is DTC "C18D2-12" detected?

YES>>

[GO TO 5.](#)

NO>>

INSPECTION END

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

1. Connect brake power supply backup unit harness connector.

2. Connect 12V battery cable to negative terminal.

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. Disconnect 12V battery cable from negative terminal.

6. Check the electrically-driven intelligent brake unit power supply and ground circuit. Refer to [Diagnosis Procedure](#).

Is the inspection result normal?

YES>>

[GO TO 6.](#)

NO>>

Repair / replace harness, connector, terminal, fuse, or fusible link. [GO TO 6.](#)

6. 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 "C18D2-12" detected?

YES>>

[GO TO 7.](#)

NO>>

INSPECTION END

7. CHECK BRAKE POWER SUPPLY BACKUP UNIT POWER SUPPLY CIRCUIT (1)

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

- 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.

- Disconnect 12V battery cable from negative terminal.
- Disconnect electrically-driven intelligent brake unit harness connector.
- Disconnect brake power supply backup unit harness connector.
- Check the continuity between electrically-driven intelligent brake unit and brake power supply backup unit.

Electrically-driven intelligent brake unit		Brake power supply backup unit		Continuity
Connector	Terminal	Connector	Terminal	
B63* ¹ B64* ²	17	B94	1	Existed
			4	Not existed
			5	Not existed
			6	Not existed

*1: Without ProPILOT Assist 2.0

*2: With ProPILOT Assist 2.0

- Check the continuity between brake power supply backup unit and ground.

Brake power supply backup unit		Continuity
Connector	Terminal	
B94	1	Ground Not existed

Is the inspection result normal?

YES>>

[GO TO 8.](#)

NO>>

Repair / replace harness or connector. [GO TO 8.](#)

8. CHECK BRAKE POWER SUPPLY BACKUP UNIT POWER SUPPLY CIRCUIT (2)

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

- Disconnect 12V battery cable from negative terminal.
- Check the 30A fusible link (#62).
- Check the continuity and for short circuit between harness connector terminal 6 of brake power supply backup unit and 30A fusible link (#62).

Is the inspection result normal?

YES>>

[GO TO 9.](#)

NO>>

Perform trouble diagnosis for 12V battery power supply.

9. CHECK BRAKE POWER SUPPLY BACKUP UNIT COMMUNICATION CIRCUIT

1. Check the continuity between electrically-driven intelligent brake unit and brake power supply backup unit.

Electrically-driven intelligent brake unit		Brake power supply backup unit		Continuity
Connector	Terminal	Connector	Terminal	
B63 ^{*1}	4 ^{*1}	B94	1	Not existed
			4	Not existed
5	Existed			
6	Not existed			
B64 ^{*2}	5 ^{*2}			

*1: Without ProPILOT Assist 2.0

*2: With ProPILOT Assist 2.0

2. Check the continuity between brake power supply backup unit and ground.

Brake power supply backup unit		Continuity
Connector	Terminal	
B94	5	Ground Not existed

Is the inspection result normal?

YES>>

[GO TO 10.](#)

NO>>

Repair / replace harness or connector. [GO TO 10.](#)

10. CHECK BRAKE POWER SUPPLY BACKUP UNIT WAKE UP CIRCUIT

1. Check the continuity between electrically-driven intelligent brake unit and brake power supply backup unit.

Electrically-driven intelligent brake unit		Brake power supply backup unit		Continuity
Connector	Terminal	Connector	Terminal	
B63 ^{*1}	24	B94	1	Not existed
			4	Existed
5			Not existed	
6			Not existed	
B64 ^{*2}				

*1: Without ProPILOT Assist 2.0

*2: With ProPILOT Assist 2.0

2. Check the continuity between brake power supply backup unit and ground.