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1992 NISSAN Prairie OEM Service and Repair Workshop Manual

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Stroke sensor		Electrically-driven intelligent brake unit		Continuity
Connector	Terminal	Connector	Terminal	
	4		2	Not existed
	4		22	Not existed
	4		8	Existed

*1: Without ProPILOT Assist 2.0

*2: With ProPILOT Assist 2.0

Is the inspection result normal?

YES>>

GO TO 10.

NO>>

Repair / replace harness or connector. GO TO 12.

10. CHECK STROKE SENSOR POWER SUPPLY

1. Connect electrically-driven intelligent brake unit harness connector.
2. Connect 12V battery cable from negative terminal.
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 OFF to ON without depressing the brake pedal.

CAUTION:
Never set the vehicle to READY.

5. Check the stroke sensor power voltage.

+		−	Voltage
Stroke sensor			
Connector	Terminal		
B39	2	Ground	4.8 - 5.15 V

Is the inspection result normal?

YES>>

GO TO 11.

NO>>

Repair / replace error-detected parts. GO TO 11.

11. CHECK STROKE SENSOR 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 cable from negative terminal.
4. Disconnect stroke sensor harness connector.
5. Disconnect electrically-driven intelligent brake unit harness connector.
6. Check the continuity between stroke sensor harness connector and ground.

Stroke sensor		—	Continuity
Connector	Terminal		
B39	4	Ground	Not existed

Is the inspection result normal?

YES>>

GO TO 12.

NO>>

Repair / replace harness or connector. GO TO 12.

12. PERFORM SELF-DIAGNOSIS (4)

With CONSULT

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

CAUTION:
Never set the vehicle to READY.

11. Perform self-diagnosis for “BRAKE”.

Is DTC "C18EC-12" detected?

YES>>

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

NO>>

INSPECTION END

SIEMD-7266913

DTC DETECTION LOGIC

DTC No.		CONSULT screen terms	DTC detection condition		
C18EC	13	Stroke sensor	1	Diagnosis condition	When power switch is ON.
				Signal (terminal)	—
				Threshold	When stroke sensor power supply is 4.8 V or less.
				Diagnosis delay time	1 second or less
			2	Diagnosis condition	When power switch is ON.
				Signal (terminal)	—
				Threshold	When stroke sensor power supply is 5.18 V or more.
				Diagnosis delay time	1 second or less

POSSIBLE CAUSE

- Electrically-driven intelligent brake unit
- Electrically-driven intelligent brake unit power supply system

FAIL-SAFE

The following functions are suspended.

- Cooperative regenerative brake function
- e-Step function
- Boost function [Boost operation by the ABS actuator and electric unit (control unit) is activated]

SIEMD-7266916

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 “C18EC-13" 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

SIEMD-7266918

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 "C18EC-13" 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 stroke sensor 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 stroke sensor 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 "C18EC-13" detected?

YES>>

GO TO 5.

NO>>

INSPECTION END

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

1. Connect stroke sensor harness connector.
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. Disconnect 12V battery cable from negative terminal.
5. Disconnect electrically-driven intelligent brake unit harness connector.
6. Check the electrically-driven intelligent brake unit power supply and ground circuit. Refer to Diagnosis Procedure.

Is the inspection result normal?

YES>>