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1992 NISSAN 300 ZX OEM Service and Repair Workshop Manual

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DTC DETECTION LOGIC

DTC No.		CONSULT screen terms		DTC detection condition				
	64	Wheel sensor	1	Diagnosis condition	Power switch is ON.			
				Signal (terminal)	Wheel sensor signal			
B14E4				Threshold	When difference between the wheel sensors for two or more wheels among all wheel sensors is 6 km/h (4MPH) or more [when driving 100 km/h (62 MPH) or less].			
				Diagnosis delay time	18 seconds or more			
			2	Diagnosis condition	Power switch is ON.			
				Signal (terminal)	Wheel sensor signal			
				Threshold	When difference between the wheel sensors for two or more wheels among all wheel sensors is 6 % or more [when driving 100 km/h (62 MPH) or less].			
				Diagnosis delay time	1 second or less			
			3	Diagnosis condition	Power switch is ON.			
				Signal (terminal)	Wheel sensor signal			
				Threshold	When two or more wheel sensors out of all wheel sensors rotate in different directions.			
			•	Diagnosis delay time	1 second or less			

POSSIBLE CAUSE

- Front left wheel sensor
- Front right wheel sensor
- Rear left wheel sensor
- Rear right wheel sensor
- Electrically-driven intelligent brake unit

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

(E)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.

Perform self-diagnosis for "BRAKE".

Is DTC "B14E4-64" detected?

Refer to <u>DTC Diagnosis Procedure</u>.

NO-1>>

To check malfunction symptom before repair: Refer to <u>Intermittent Incident</u>.

NO-2>>

Confirmation after repair: INSPECTION END



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)

(H)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.

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 "B14E4-64" 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 each 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 wheel sensor.

• Front: Refer to FRONT WHEEL SENSOR: Removal & Installation.

• Rear: Refer to REAR WHEEL SENSOR: Removal & Installation.

3. Power switch OFF to ON without depressing the brake pedal.

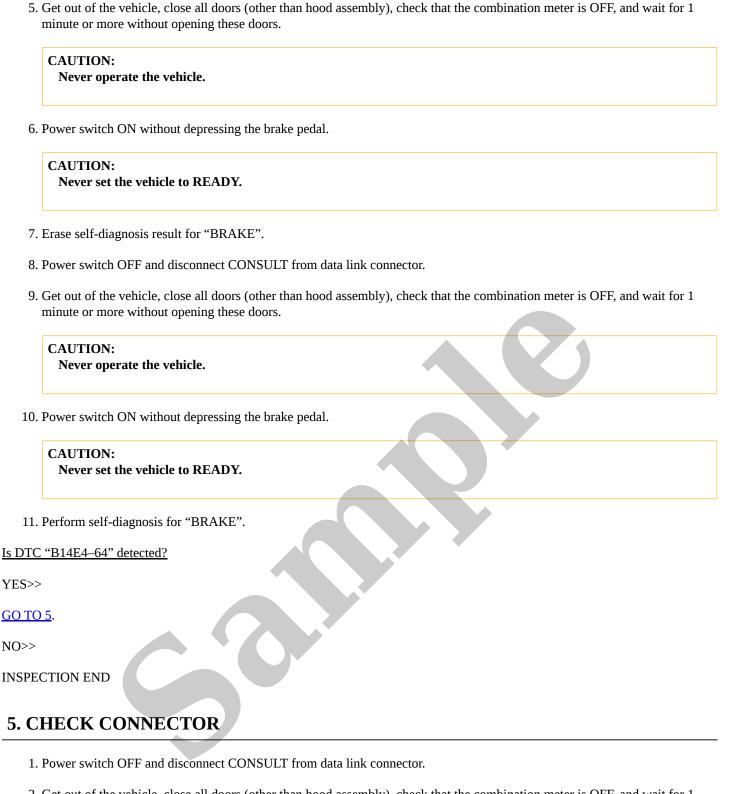
4. Power switch OFF and disconnect CONSULT from data link connector.

2. Connect 12V battery negative terminal.

Never set the vehicle to READY.

CAUTION:

CAUTION:



- 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 each 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. <u>GO TO 6</u>.

6. PERFORM SELF-DIAGNOSIS (2)

- **(H)**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 "B14E4–64" detected?

YES>>

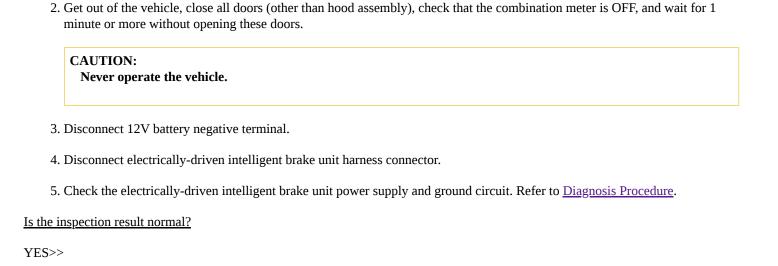
GO TO 7.

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.



3. Get out of the vehicle, close all doors (other than hood assembly), check that the combination meter is OFF, and wait for 1

7. Get out of the vehicle, close all doors (other than hood assembly), check that the combination meter is OFF, and wait for 1

GO TO 8.

With CONSULT

CAUTION:

CAUTION:

CAUTION:

CAUTION:

CAUTION:

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

1. Power switch OFF to ON without depressing the brake pedal.

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

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

8. PERFORM SELF-DIAGNOSIS (3)

Never set the vehicle to READY.

minute or more without opening these doors.

4. Power switch ON without depressing the brake pedal.

Never operate the vehicle.

Never set the vehicle to READY.

5. Erase self-diagnosis result for "BRAKE".

minute or more without opening these doors.

8. Power switch ON without depressing the brake pedal.

Never operate the vehicle.

Never set the vehicle to READY.

9. Perform self-diagnosis for "BRAKE".

NO>>

Is DTC "B14E4–64" 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 each wheel sensor harness connector.
- 6. Check the continuity between electrically-driven intelligent brake unit harness connector and each wheel sensor harness connector.
 - Measurement connector and terminal for power supply circuit

Electrically-driven intelli	gent brake unit	Wheel sensor			Continuity	
Connector	Terminal	Connector		Terminal	Continuity	
	4	B176	(Front left)	1	Existed	
B64	12	E110	(Front right)			
Б04	3	B179	(Rear left)			
	7	B181	(Rear right)			

• Measurement connector and terminal for signal circuit

Electrically-driven intellig	ent brake unit	Wheel sensor			Continuity	
Connector	Terminal	Connector		Terminal	Continuity	
	21	B176	(Front left)	- 2	Existed	
B64	11	E110	(Front right)			
D04	19	B179	(Rear left)			
	15	B181	(Rear right)			

Is the inspection result normal?

YES>>

GO TO 12.

NO>>

Repair / replace harness or connector. <u>GO TO 10</u>.

10. PERFORM SELF-DIAGNOSIS (4)