

ELECTRIC PARKING BRAKE SYSTEM CALIBRATION

1. DESCRIPTION

a. Follow the chart below to perform calibration.

Parts to be Replaced/Operation	Necessary Operation
Electric parking brake ECU (Parking brake with bracket actuator assembly)	<ul style="list-style-type: none">Yaw rate sensor zero point calibrationBrake pedal stroke sensor (Clutch pedal stroke sensor) zero point calibration (for M/T)
Yaw rate sensor	<ul style="list-style-type: none">Clearing zero point calibration dataYaw rate sensor zero point calibration
Brake pedal stroke sensor (Clutch pedal stroke sensor)(for M/T)	<ul style="list-style-type: none">Clearing zero point calibration dataBrake pedal stroke sensor (Clutch pedal stroke sensor) zero point calibration
Brake pedal stroke sensor (Clutch pedal stroke sensor) adjustment (for M/T)	
Clutch pedal (for M/T)	

2. CLEAR ZERO POINT OF YAW RATE SENSOR AND BRAKE PEDAL STROKE SENSOR (CLUTCH PEDAL STROKE SENSOR)

a. Clear the zero point calibration data (when using intelligent tester).

- i. Turn the ignition switch off.
- ii. Connect the intelligent tester to the DLC3.
- iii. Turn the ignition switch to ON and turn the intelligent tester on.
- iv. Enter the following menus: Chassis / Electric Parking Brake / Utility / Reset Memory.
- v. Follow the intelligent tester display and perform reset memory.

Tech Tips

When the reset memory procedure is completed, the brake system warning light (yellow indicator) turns on.

b. Clear the zero point calibration data (when not using intelligent tester).

- i. Turn the ignition switch off.

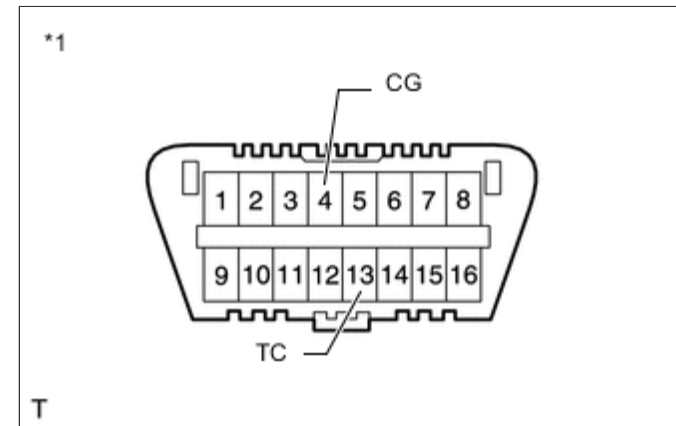
ii. Using SST, connect terminals 13 (TC) and 4 (CG) of the DLC3.

SST
09843-18040

Note

Do not connect the wrong terminals, as this will cause parts to be damaged.

iii. Turn the ignition switch to ON.

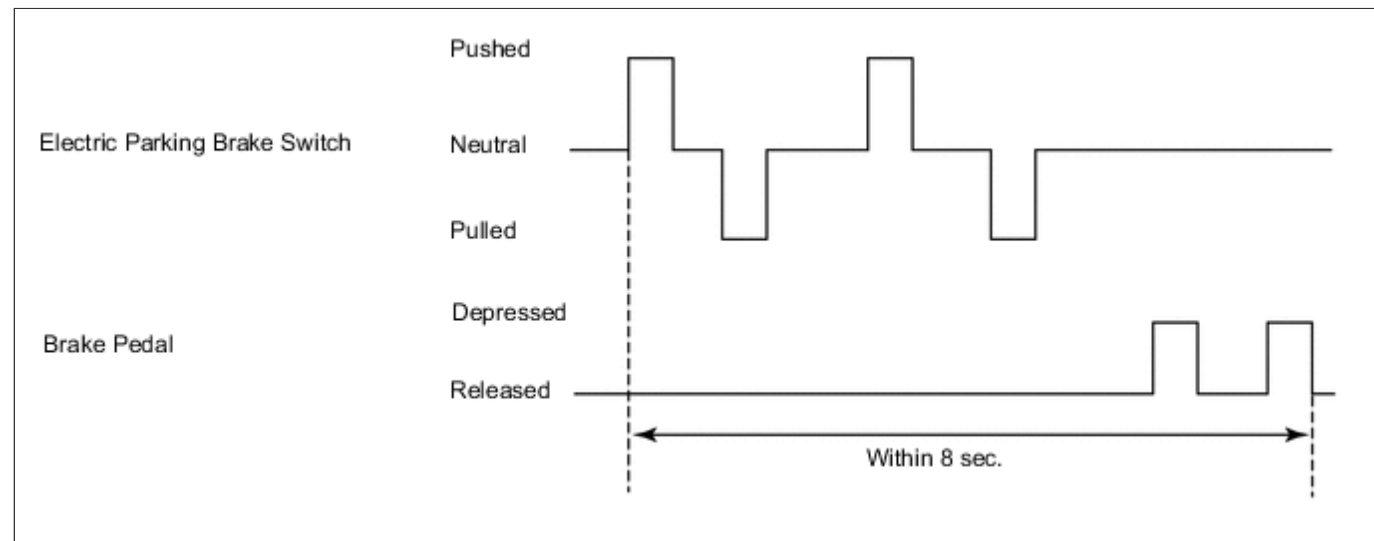


Text in Illustration

*1	Front view of DLC3
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iv. Perform both of the following procedures within 8 seconds:

1. Perform the following electric parking brake switch operation: push → pull → push → pull.
2. Perform the following with the brake pedal: depress → release → depress → release.



v. With the ignition switch ON, disconnect the connection of terminals 13 (TC) and 4 (CG) of the DLC3.

vi. Check that the brake system warning light (yellow indicator) turns on.

3. OBTAIN ZERO POINT OF YAW RATE SENSOR AND BRAKE PEDAL STROKE SENSOR (CLUTCH PEDAL STROKE SENSOR)

Note

- Before performing calibration, make sure that the vehicle is on a horizontal surface.
- Do not press the clutch pedal during test mode. (for M/T)
- Turn the air conditioning system off.

a. Turn the ignition switch to ON.

b. Check that the brake system warning light (yellow indicator) turns on.

Note

If the brake system warning light (yellow indicator) does not turn on, perform the Clear Zero Point of Yaw Rate Sensor and Brake Pedal Stroke Sensor (Clutch Pedal Stroke Sensor) procedures.

c. Enter test mode.

i. Turn the ignition switch off.

ii. Using SST, connect terminals 12 (TS) and 4 (CG) of the DLC3.

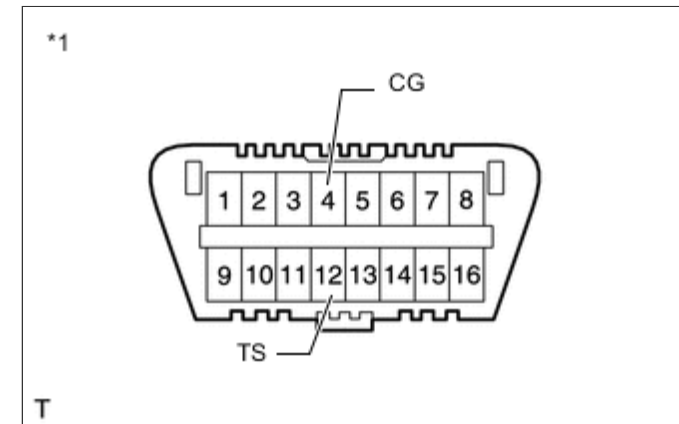
SST

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Note

Do not connect the wrong terminals, as this will cause parts to be damaged.

iii. Turn the ignition switch to ON.



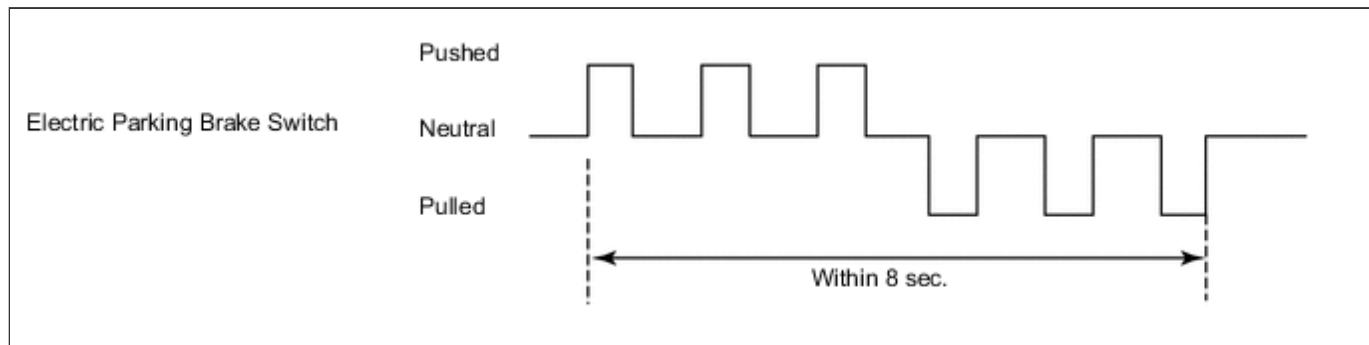
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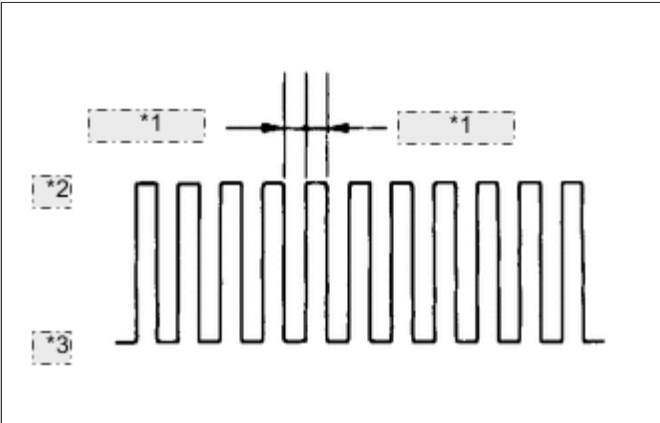
Front view of DLC3

iv. Perform the following procedures with the electric parking brake switch within 8 seconds:

1. Push the electric parking brake switch 3 times and then pull it 3 times.



v. Check that the **PARK** warning light blinks in test mode.



Test Mode Blinking Pattern

*1	0.125 sec.
*2	ON
*3	OFF

d. Check that the brake system warning light (yellow indicator) turns off.

Note

The brake system warning light (yellow indicator) does not turn off if confirmation of the vehicle specifications and/or sensor calibration fails.
If the brake system warning light (yellow indicator) does not turn off, repeat the procedure from entering test mode. If the procedure fails multiple times, proceed to Failure Investigation to determine the cause of the failure.

4. **FAILURE INVESTIGATION**

Tech Tips

*: If the electric parking brake switch is operated too quickly, it does not operate properly.

- a. Turn the ignition switch to ON.
- b. Apply the electric parking brake.*
- c. Release the electric parking brake after the PARK warning light turns off.*
- d. Check for DTCs.
- e. Refer to Diagnostic Trouble Code Chart.