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Model Year: 2008	Model: Tundra	Doc ID: RM000001K1O00FX
Title: BRAKE CONTROL: VEHICLE STABILITY CONTROL SYSTEM: CALIBRATION (2008 Tundra)		

CALIBRATION

1. DESCRIPTION

- After replacing components relating to the VSC or performing "Front wheel alignment adjustment", clear and read the sensor calibration data.
- Follow the chart to perform calibration.

REPLACING PARTS / OPERATION	NECESSARY OPERATION
VSC actuator (Skid Control ECU)	<ul style="list-style-type: none"> • 1. Deceleration sensor zero point calibration. • 2. Master cylinder pressure sensor zero point calibration.
Yaw Rate Sensor	<ul style="list-style-type: none"> • 1. Zero point calibration data clearance. • 2. Deceleration sensor zero point calibration.
Front Wheel Alignment Adjustment	<ul style="list-style-type: none"> • 1. Zero point calibration data clearance. • 2. Deceleration sensor zero point calibration. • 3. Perform initialization of steering angle sensor.

2. CLEAR ZERO POINT CALIBRATION DATA (WHEN USING TECHSTREAM)

- Connect the Techstream to the DLC3.
- Turn the ignition switch to ON.
- Operate the Techstream to erase the codes (select Reset Memory).

Refer to the Techstream operator's manual for further details.

3. PERFORM ZERO POINT CALIBRATION OF MASTER CYLINDER PRESSURE SENSOR AND DECELERATION SENSOR (WHEN USING TECHSTREAM)

NOTICE:

- While obtaining the zero point, do not vibrate the vehicle by tilting, moving or shaking it and keep it stationary. (Do not start the engine.)
- While obtaining the zero point, do not depress the brake and accelerator pedal.
- Obtain the zero point on a level surface (with an inclination of less than 1°).

- Enter Test Mode.
 - Turn the ignition switch off.
 - Check that the shift lever is in parking or neutral and apply the parking brake.

Application of the parking brake is not necessary for entering test mode. However, apply the parking brake for safety.

- Connect the Techstream to the DLC3.

(4) Turn the ignition switch to ON.

Do not start the engine.

(5) Set the Techstream to test mode (select Test Mode).

Refer to the Techstream operator's manual for further details.

(b) Obtain the zero points of the master cylinder pressure sensor and deceleration sensor.

(1) Keep the vehicle stationary on a level surface for 1 second or more.

HINT:

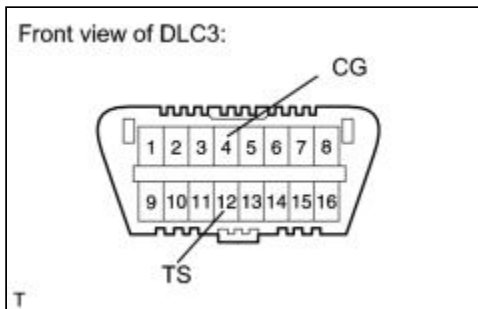
- The zero point calibration is performed only once after the system enters test mode.
- Calibration cannot be performed again until the stored data is cleared once.

(2) Check that the buzzer sounds for 3 seconds and DTC C1336 is erased.

(3) Turn the ignition switch OFF.

4. CLEAR ZERO POINT CALIBRATION DATA (WHEN USING SST CHECK WIRE)

(a) Turn the ignition switch to ON.



(b) Using SST, connect and disconnect terminals 12 (TS) and 4 (CG) of the DLC3 4 times or more within 8 seconds.

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(c) Check that the VSC OFF indicator light comes on.

(d) Using a check wire, perform the zero point calibration of the deceleration sensor.

5. PERFORM ZERO POINT CALIBRATION OF MASTER CYLINDER PRESSURE SENSOR AND DECELERATION SENSOR (WHEN USING SST CHECK WIRE)

NOTICE:

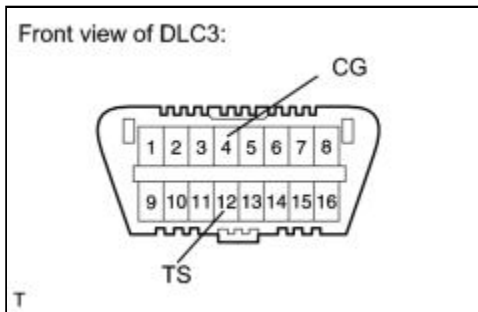
- While obtaining the zero point, do not vibrate the vehicle by tilting, moving or shaking it and keep it stationary. (Do not start the engine.)
- While obtaining the zero point, do not depress the brake pedal.
- Obtain the zero point on a level surface (with an inclination of less than 1°).

(a) Enter Test Mode.

(1) Turn the ignition switch off.

(2) Check that the shift lever is in parking or neutral and apply the parking brake.

Application of the parking brake is not necessary for entering test mode. However, apply the parking brake for safety.



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

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(4) Turn the ignition switch to ON.

Do not start the engine.

(b) Obtain the zero points of the master cylinder pressure sensor and deceleration sensor.

(1) Keep the vehicle stationary on a level surface for 1 second or more.

HINT:

- The zero point calibration is performed only once after the system enters test mode.
- Calibration cannot be performed again until the stored data is cleared once.

(2) Check that the buzzer sounds for 3 seconds and DTC C1336 is erased.

(3) Turn the ignition switch off.

6. PERFORM INITIALIZATION OF STEERING ANGLE SENSOR

Complete the adjustment of the steering wheel and wheel alignment, and then initialize the steering angle sensor. If the order is reversed, the steering wheel and wheel alignment will become misaligned.

(a) Check that the steering wheel is in the centered position.

(b) Disconnect the negative battery terminal for more than 2 seconds.

After the ignition switch is turned OFF, the navigation system requires approximately 90 seconds to record various types of memory and settings. As a result, after turning the ignition switch OFF, wait 90 seconds or more before disconnecting the cable from the negative (-) battery terminal.

(c) Reconnect the negative battery terminal.

