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Model Year: 2010	Model: Corolla	Doc ID: RM000002753012X
Title: POWER ASSIST SYSTEMS: POWER STEERING SYSTEM (for 2AZ-FE): CALIBRATION (2010 Corolla)		

CALIBRATION

1. ROTATION ANGLE SENSOR INITIALIZATION AND TORQUE SENSOR ZERO POINT CALIBRATION

NOTICE:

Clear the rotation angle sensor calibration value, initialize the rotation angle sensor, and calibrate the torque sensor zero point if any of the following has occurred:

- The power steering ECU has been replaced.
- The steering column assembly has been replaced.
- Steering effort differs between left and right.

(a) Inspection before calibration.

- (1) Turn the ignition switch off.
- (2) Connect the Techstream to the DLC3.
- (3) Turn the ignition switch on (IG).
- (4) Turn the Techstream on.
- (5) Calibrate the power steering ECU. Enter the following menus: Chassis / EMPS / Data List.
- (6) Check the values by referring to the table below.

Power Steering ECU

TESTER DISPLAY	MEASUREMENT ITEM/RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
IG Power Supply	ECU power source voltage/ Min.: 0 V Max.: 20.1531 V	11 to 14 V	Ignition switch on (IG)

Standard voltage:
11 to 14 V

NOTICE:

If the IG power supply voltage is 9 V or less, calibration cannot be performed. In this case, charge or replace the battery, and then perform calibration.

(b) Rotation angle sensor calibration value clear, rotation angle sensor initialization, and torque sensor zero point calibration.

NOTICE:

- If DTC C1516 (Torque Sensor Zero Point Adjustment Incomplete) is stored, the torque sensor zero point cannot be calibrated. Clear the DTC before starting calibration.
- If DTC C1526 (Rotation Angle Sensor Initialization Incomplete) is stored, the rotation angle sensor cannot be initialized. Clear the DTC before starting initialization.

- (1) Turn the ignition switch off.
- (2) Connect the Techstream to the DLC3.
- (3) Turn the ignition switch on (IG).

(4) Turn the Techstream on.

(5) Enter the following menus : Chassis / EMPS / Utility / Torque Sensor Adjustment.

NOTICE:

- Set the steering wheel to the center point and align the front tires straight ahead.
- Do not turn the steering wheel sharply.
- Do not touch the steering wheel during the torque sensor zero point calibration (for 3 seconds).

