

2022 CHEVROLET CORVETTE SERVICE MANUAL

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Power Steering Control Module Calibration

Steering Angle Sensor Centering and Software Endstop Learning

Warning:

An inaccurate or not centered steering angle sensor could limit the operation of the electric power steering and may result in personal injury.

Centering of the steering angle sensor and software endstop learning might be required after certain service procedures are performed. Some of these procedures are as follows:

- Steering angle sensor replacement
- Steering gear replacement
- Power steering assist motor replacement
- Steering column replacement
- Steering linkage inner tie rod replacement
- Steering linkage outer tie rod replacement

Note:

It is necessary to perform the steering angle sensor centering BEFORE the software endstop learning.

Internal Steering Angle Sensor Centering

Note:

Ensure the front wheels are facing straight ahead before turning the engine off.

The centering procedure of the internal steering angle sensor can be completed with the following steps:

Conditions: Front axle measured and set, engine off, vehicle speed 0 km/h (0 MPH), internal steering angle sensor is activated.

1. Using the steering wheel, align the front wheels in the center forward position.
2. Using a scan tool, perform the Steering Wheel Angle Sensor Offset Calibration procedure.
3. Follow on-screen prompts.
4. Centering procedure is completed.
5. Clear DTCs.

Software Endstop Learning

The software endstops are learned automatically and do not require any additional procedures.