



STAR ONLINE PUBLICATION



Case Number: S2308000036 Rev. A

Release Date: April 2023

Symptom/Vehicle Issue: Cluster Displays an Electric Power Steering (EPS) Fault Warning Lamp or Service Power Steering Message

Technician Observation: After an EPS replacement and or EPS control module service the EPS cluster warning lamp remains on. The cluster may display “**Have Power Steering Checked**” message with a steering wheel icon displayed on the instrument cluster.



Discussion: Perform the **Lock-to-Lock** steering angle calibration. This procedure is for steering rack center position learning.

Perform Calibration: – Start with the tires in the straightforward position with the vehicle having the proper steering wheel alignment. Calibration is performed by turning the steering wheel lock to lock with a slight applied steering torque at both full lock positions and holding the lock position for a minimum of 2 seconds.

From the straightforward tire position turn the steering wheel to a full lock position right or left, holding the steering wheel for a minimum of 2 seconds with slight torque applied, min torque of (6Nm) against the stop for 1 second. Then rotate the steering wheel to the full lock position in the opposite direction again holding the steering wheel for 2 seconds with a slight torque applied min (6Nm) against the stop. Returning to the center once complete.

The end lock position limits are defined by half rack length min and max values derived from the nominal half rack length parameter for proper centering.

This document does not authorize warranty repairs. This communication documents a record of past experiences. STAR Online does not provide any conclusions about what is wrong with the vehicle. Rather, it captures all previous cases known that appear to be similar or related to the vehicle symptom / condition. You are the expert, and you are responsible for deciding on the appropriate course of action.

Contact STAR Center, or your Technical Assistance Center Via TechCONNECT or eCONTACT ticket if no solution is found