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Case Number: S2523000053 Rev. C

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Symptom/Vehicle Issue: Service Electric Power Steering (EPS) Message On Instrument Cluster. Rev B.

Models Affected: 2022-2026 Jeep Wagoneer (WS)

Customer Complaint/Technician Observation: Customer sees EPS warning on cluster and technician finds one or more of the following diagnostic trouble codes (DTCs):

- U0420-00 - Invalid Data Received From Power Steering Control Module set by CADM2.
- C2217-00 - Electric Power Steering Module Internal.
- C221F-00 - ECU Not Initialized.
- C1592-00 - Electronic Power Steering Motor Circuit.
- C1593-00 - Steering Torque Sensor Circuit.

Discussion: If the customer complaint and technicians DTC findings match the above Read through the below information prior to performing a repair.

- Review and perform any related Service Bulletins first. 08-095-25 REV.B and 08-094-25 REV A. – at the time of this document's publication.
- Review the vehicle battery health. Verify the voltage of both batteries is between 12 to 14 V, the measured CCA is above the battery's spec, the state of charge is

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Contact STAR Center, or your Technical Assistance Center Via TechConnect, eCONTACT or Service Library entry if no solution is found.



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over 80%, the battery health is good. Before, during, and after the steering load test, ensure the voltage does not drop below 10V, even for a short period of time.

- Inspect and test the electrical circuits/connections to the EPS unit. The EPS requires battery voltage (12-14V) on the power feeds and a low resistance ground to function properly. Analysis of returned parts show no failures to the EPS unit when tested indicating the parts were not the cause of the concern.

NOTE: The voltage differential between main and aux batteries have been shown to cause good steering gears to set DTC C2217. It is imperative to monitor the voltage of both batteries before, during, and after the test. Test the aux battery using the MOPAR Maximus Complete Battery Diagnostic System if issue persists. These DTCs do not indicate an issue with the main battery.

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