



STAR ONLINE PUBLICATION



Case Number: S2208000110

Release Date: May 2022

Symptom/Vehicle Issue: Central ADAS Decision Module (CADM), Advanced Driver Assist System (ADAS), Lane Assist Inoperative, Service Active Lane Management Message

Customer Complaint/Technician Observation: Customer complaint the driver lane assist system is not functioning. Technician observed the vehicle is setting C2203-00 Current Vin Missing/Mismatch, C2318-54 Front Camera - Missing Calibration.

NOTE: Validate no flash updates are available for the module, perform the Long-Range Front Camera Calibration. The routine is called the “Forward Facing Camera Dynamic Service Alignment”. This is a drive style routine which requires the vehicle to be driven with wiTECH2 and requires a MiFi, a portable, battery-powered internet device that can create a wireless network using tethering or phone-as-modem(PAM) or wireless hot spot. while performing the calibration. Perform this calibration prior to any other repairs.

Discussion: The CADM is the decision master and the main operating component of the Lane Centering system and its sub systems.

Lane Management System

The CADM enables the Lane Centering system once it receives the ignition state of “RUN”, PROXI information indicating that the vehicle is equipped with “Active Lane Management”, and the ASBM switch request. The CADM will then set an internal flag indicating that the lane management system is available when the following conditions are met:

- Engine is running
- Vehicle speed is between 60 km/h (37 mph) and below 145 km/h (90 mph)
- Video imaging is not blinded or degraded beyond lane keeping capability
- The left or right lane marking is detected
- Blind Spot System (rear radars) enabled

The CADM then uses all radar sensors for sensing. The CADM receives vehicle ride height information and air suspension status from the Air Suspension Control Module (ASCM) for vertical tuning of the radars and auto-calibrates them as needed.

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



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The CADM enables the Lane Centering system with haptic feedback when the following conditions are met:

- Hands on wheel detected
- The EPS does not detect the customer performing a driver override condition
- An evasive maneuver is not detected
- No active safety system events are active

Once the Lane Centering system is engaged and the vehicle is between lane boundaries, the CADM provides commands to the Electric Power Steering (EPS) in order to keep the vehicle within the lane. A lane boundary refers to:

- Lane markers
- Road edges
- Curbs
- Bott's dots

When a CADM is replaced, the following procedures need to be performed using the scan tool and special tools, see DealerCONNECT:

1. Perform the PROXI configuration
2. Perform the Long-Range Radar calibration. The routine is called the **CADM Long Range Radar Static/In Bay Calibration Routine** located in the "Misc. Functions" tab in the CADM.

NOTE: The routine requires the [ADAS Calibration System 2076800080](#) .

3. Perform the Long-Range Front Camera calibration. The routine is called the "Forward Facing Camera Dynamic Service Alignment". This is a drive style routine.

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