



STAR ONLINE PUBLICATION



Case Number: S2523000072

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Symptom/Vehicle Issue: Central ADAS Decision Module (CADM), Long Range Camera Front (LRCF), Advanced Driver Assist System (ADAS). AEB ACC FCW Message On Cluster.

Customer Complaint/Technician Observation: Owner complains of a cluster message “ACC/FCW Unavailable Service Required”, ACC/FCW Limited Functionality”, “Automatic Emergency Braking (AEB) Limited Service Required”, “AEB Unavailable Service Required”, along with the ADAS Features disabled. Technician finds diagnostic trouble code (DTC): C008E-00 - ECU INTERNAL PERFORMANCE

Discussion:

Some customers may comment on ACC or AEB Limited Functionality. Technicians may observe DTC C008E-00 - ECU Internal Performance in the “**Active**” or “**Stored**” state. In addition, after taking a Vehicle Scan Report (VSR), technicians may observe “EyeQ_Fatal_Error”, “APP_FATAL_ERROR_APP_CONFIGURATION_ERROR_FAULT”, “Not Applicable” stored as Internal DTC Decode Byte(s) 1,2 and 3 as shown in **Figure 1** below.

CADM | C008E-00 | Active | ECU Internal Performance-

NAME	VALUE	UNITS
Internal DTC Decode Byte 1	EyeQ_Fatal_Error	
Internal DTC Decode Byte 2	APP_FATAL_ERROR_APP_CONFIGURATION_ERROR_FAULT	
Internal DTC Decode Byte 3	Not Applicable	
System Voltage	12.1	V
DTC_Reason_Byte1 (Most Recent)	NOT_APPLICABLE_RSN	
Most Recent Internal Temperature	-8	°F
Internal DTC Decode Byte 1	EyeQ_Fatal_Error	
Internal DTC Decode Byte 2	APP_FATAL_ERROR_APP_CONFIGURATION_ERROR_FAULT	
Internal DTC Decode Byte 3	Not Applicable	

Fig 1

Internal DTC Decode Byte(s) 1, 2 and 3

<<<**NOTE**>>> Replacement of the CADM is **not necessary** for this condition.

Repair Procedure:

<<<NOTE>>> This issue is caused by a slight degree change in the roll angle of the Long-Range Front Camera (LRCF).

1. Remove the Mirror Cover and Inspect the LRCF.
2. To aid Engineering in the investigation, take a picture of the LRCF mounted in the windshield bracket as shown below and upload as a **DID-I** with the claim.
3. Verify LRCF is not damaged, obscured or out of alignment and is **properly mounted**.
4. Remount the Camera and continue to step 5 below.

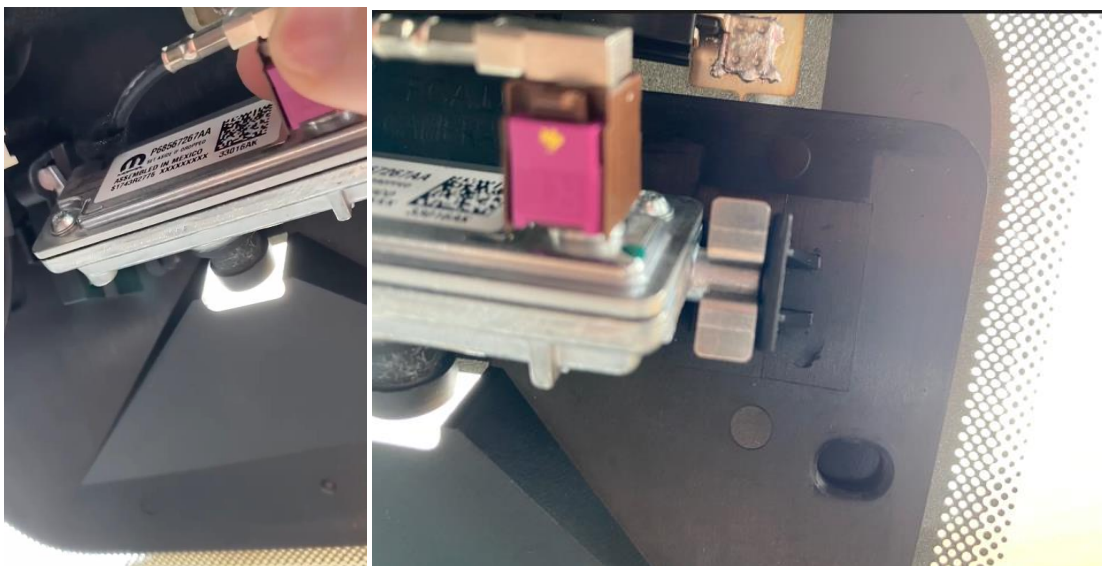
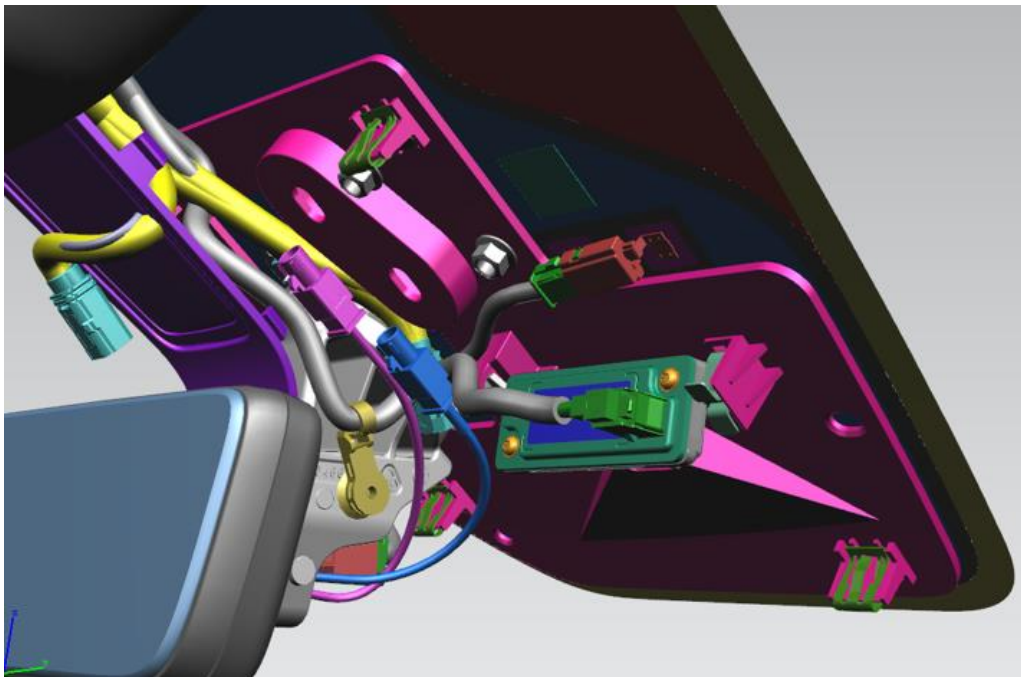


Fig 2: Properly Mounted LRCF

5. Take a Vehicle Scan Report (VSR) of C008E-00 - ECU Internal Performance and check the Internal Decode Byte(s) 1,2 and 3 as shown in the example(s) above Fig 1.

C008E-00 - ECU Internal Performance

APP_FATAL_ERROR_APP_CONFIGURATION_ERROR_FAULT:

6. Using the scan tool, perform the LRCF calibration. The routine is called the “Forward Facing Camera Dynamic Service Alignment/Calibration”. [\(Refer to 08 - Electrical/Programming and Calibration/Programming and Calibration\)](#).
7. Once LRCF calibration routine is completed, the C008E-00 - ECU Internal Performance will go to the “stored” state. Clear DTC(s) and road test the vehicle to verify the issue does not return to complete the repair.

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, eCONTACT or Service Library entry if no solution is found.