



## STAR ONLINE PUBLICATION



**Case Number:** S2308000074 Rev. A

**Release Date:** September 2023

**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:** Owner complains of a cluster message "Service Active Lane Management" along with the following conditions Adaptive Cruise Control, Lane Departure, Driver Assist, Lane Keeping System Inoperative, Forward Collision Light On/ Intermittently, and/or Long-Range Front Camera Fails to Calibrate.

**Technicians may observe one or more of the following Diagnostic Trouble Codes:**

**C2318-49-FRONT CAMERA - INTERNAL ELECTRONIC FAILURE**

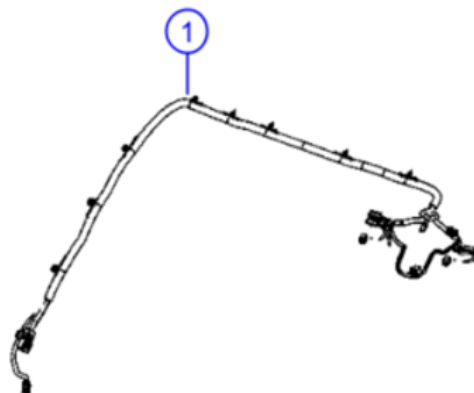
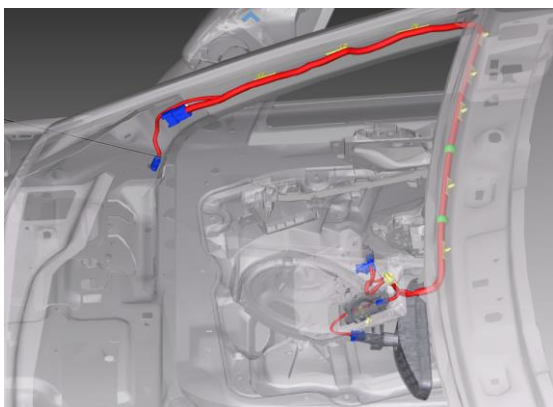
**P0602-00-CONTROL MODULE PROGRAMMING ERROR/NOT PROGRAMMED**

### **Discussion:**

Some recently replaced and returned Long Range Front Cameras (LRCFs) and CADM(s) were tested and have been found to have no internal failures. Upon further inspection the technician may not find any obvious signs of damage to the wiring or connectors after some recent vehicle repairs. However, some critical inspection points of the LVDS/Coax Cable after all repairs to interior trim or the windshield can be helpful to root cause the signal disruption misleading to replacement of the LRCF or CADM before identifying issues with the LVDS/Coax Cable.

See below

1. **Mirror Harness Connection looped over to tightly causing tension.**
2. **Mirror Harness Front Camera Connector Rotated 90 Degrees which may partially spread the terminals(check pin fit as needed).**
3. **Pinch or Chaffing of the Mirror Harness by the Interior Trim clips.**



## Figure 1: LRCF Front Mirror Harness

### Repair Procedure:

Take a Vehicle Scan Report (VSR) of C2318-49 - Front Camera - Internal Electronic Failure and check the Internal Decode Byte(s) 1,2 and 3 as shown in the example(s) below.

One (1) ***FWC\_CAMPWR\_LDO\_Fail***:

Start your diagnosis with replacement of the mirror harness for any suspect damage (Figure 1).

Internal DTC Decode Byte 1	FWC_CAMPWR_LDO_Fail
Internal DTC Decode Byte 2	LRCF_Hw_Failure
Internal DTC Decode Byte 3	FFFF

Two (2) ***FWC\_ImagerFuseID\_Mismatch\_Fault***:

Start your diagnosis with attempting to recalibrate the Long-Range Camera Front (LRCF). If the camera calibration cannot be completed, replace the LRCF.

Internal DTC Decode Byte 1	-	FWC_ImagerFuseID_Mismatch_Fault
Internal DTC Decode Byte 2	-	FFFF
Internal DTC Decode Byte 3	-	FFFF

**Using the scan tool, perform the Long Range Camera Front (LRCF) calibration. The routine is called the “Forward Facing Camera Dynamic Service Alignment/Calibration”.** ([Refer to 08 - Electrical/Programming and Calibration/Programming and Calibration](#)).

Perform a full key off BUS sleep cycle **for a minimum of 8 minutes**, following the diagnostics **as published** in Service Library to complete the calibration. ([Refer to 28 - DTC-Based Diagnostics/MODULE, Central ADAS Decision \(CADM\) /Standard Procedure](#)).

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.**