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Case Number: S2508000095

Release Date: October 2025

Symptom/Vehicle Issue: Cluster Displays “Blindspot Alert Unavailable Service Required” Warning Message, Driver/Passenger Mirror Blind Spot Detection Lights Stay ON, ADAS Features Disabled. Multiple DTC’s Active Or Stored

Discussion: Intermittently customer may state that the “Blindspot Alert Unavailable Service Required” warning message is displayed in the cluster, driver/passenger mirror blind spot detection lights stay on, Active Driver Assistance System (ADAS) features disabled. Upon scanning the vehicle for DTCs you may observe the below in either Active or Stored state.

Some recently replaced Central Active Decision Module’s (CADM) and Global Navigation Motion Module’s (GNMM) were tested and found to have no internal failures. Engineering has found that the ethernet cable routing may be too tight or incorrectly positioned. A taut cable will lead to strain on the connector, resulting in poor pin fitment/damage to ethernet connector(s) and intermittent communication faults.

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

ECU	DTC	Fault Description	Relevant Freeze Frame Decode Bytes
CADM (MID)	U015D-00	Lost Communication With Automated Driving System Control Module "B"	ENET_AD2_Link_Status_Error Ethernet_Time_Synch_Fault Pp_Missing_Msg_Fail_TR_MAP Pp_Missing_Msg_Fail_AURIX_MAP
CADM (MID)	U045E-00	Invalid Data Received From Automated Driving System Control Module "B"	Pp_MC_Fail_TR_MAP == TRUE Pp_MC_Fail_AURIX_MAP == TRUE

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CADM2 (MAP)	U015C-00	Lost Communication With Automated Driving System Control Module "A"	ETNT-AD2 Failure ENET_AD2_Link_Status_Error Pp_Missing_Msg_Fail_TR_MID Pp_Missing_Msg_Fail_AURIX_MID
CADM2 (MAP)	U045D-00	Invalid Data Received From Automated Driving System Control Module "A"	BRAKE_JERK_REQ_ACTIVE_AND_BRK_JRK_RESP_NOT_EXECUTED_RSN
CADM2 (MAP)	U02BC-00	Lost Communication With Localization and Mapping Module	Ethernet_Time_Synch_Fault ENET_AD3_Link_Status_Error F_MF_AD_3_GNMMtoCADM2_HighFrequency
GNMM	U045E-00	Invalid Data Received From Automated Driving System Control Module "B"	
GNMM	U015D-00	Lost Communication With Automated Driving System Control Module "B"	
GNMM	U0081-F2	Ethernet Bus Performance-Ethernet Bus	
CADM2 (MAP)	U0149-00	Lost Communication with Security Gateway	ENET_AD1_Link_Status_Error

In addition, after reviewing Vehicle Scan Report (VSR) Freeze Frame data, technicians may observe “Ethernet” and “Communication” missing message errors stored as DTC Decode Byte(s) 1, 2 and 3. As an example, U015D-00 shows Byte 1 populated with a Ethernet Communication Error (Fig. 1).

CADM | U015D-00 | Stored | Lost Communication With Automated Driving System Control Module "B"-

NAME	VALUE	UNITS
DTC_Reason_Byte1 (First Confirmed)	Pp_Missing_Msg_Fail_AURIX_MAP	
System Voltage	14.2	V
Original Internal Temperature	1	°F
Internal DTC Decode Byte 1	ENET_AD2_Link_Status_Error	
Internal DTC Decode Byte 2	Not Applicable	
Internal DTC Decode Byte 3	Not Applicable	
DTC_Reason_Byte1 (Most Recent)	Pp_Missing_Msg_Fail_AURIX_MAP	
System Voltage	14.2	V
Most Recent Internal Temperature	1	°F
Internal DTC Decode Byte 1	ENET_AD2_Link_Status_Error	
Internal DTC Decode Byte 2	Not Applicable	
Internal DTC Decode Byte 3	Not Applicable	

Fig 1: WiTECH VSR Internal DTC Decode Byte(s)

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Diagnosis: Some critical inspection points of the ethernet cables have been found to be helpful to help root cause the signal disruption and misleading to replacement of the CADM/CADM2 and GNMM. It is necessary to physically inspect the ethernet cables and connectors before taking any repair actions.

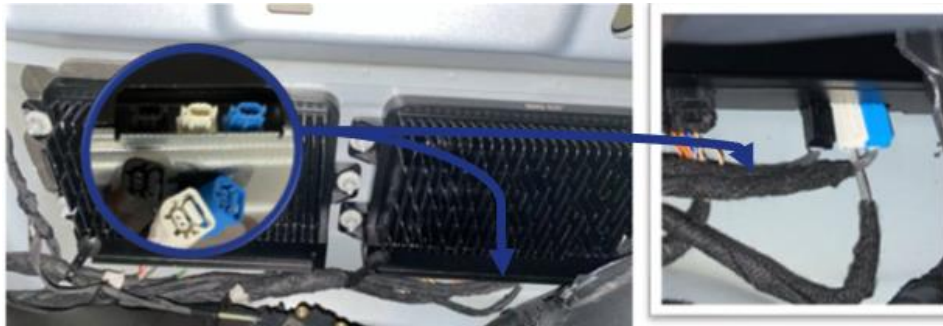
NOTE: To aid Engineering in the investigation, take a picture of **any** of the conditions described below and upload as a **DID-I** with the claim.

1. Perform Ethernet Connector(s), Harness Physical Inspection/ Wiggle /Intermittency Test

Remove the Right Rear Quarter Panel Storage Bin and Trim Panel along with the lower carpet to reveal the CADM and CADM MID modules and connectors. (reference service library CADM Removal/Installation)

Inspect and correct if damaged:

- **Connector**
 - *Ensure all 3 Ethernet Connector(s) are properly installed, fully inserted and clicked into place*
- **Replace the Ethernet Harness for any of the below conditions. DO NOT REPAIR ETHERNET CABLES; DID-I - Upload Image of Harness/Connectors at CADM (MID), CADM2 (MAP) and GNMM**
 - *Bent, pushed out, or misaligned pins/terminals (male and female sides)*
 - *Fretting corrosion (small black or dark spots)*
 - *Pulled, loose, wiggly, or poorly crimped wires at the harness side*
 - *Evidence of overheating, burning, or melted plastic*
 - *Signs of crimping, excessive strain (see Figure 2 below), or improper routing to the harness/cables*
 - *In event of intermittent fault persists*



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MAP ↔ MID
ENET-AD2



MAP ↔ GNMM
ENET-AD3

MAP ↔ SGW
ENET-AD1

Figure 2: Inspect Ethernet Connectors

2. Clip C121 Location Reference

- Referencing Fig. 3 and 4 below. Confirm that the offset Clip (C121) on Central ADAS Decision Module complies with the following length specification:
 - 416 (+10/-0) mm from Node **VVE** to Clip C121. (Note: Reads as “416mm up to 10mm longer, but not shorter than 416mm”)
 - 12 (+10/-0) mm from C121 to node **VVY**.
 - 190 (+40/-0) mm from **VVY** to **Black Ethernet Connector**
 - 202 (+40/-0) mm from **VVY** to White Ethernet Connector
 - 215 (+40/-0) mm from **VVY** to **Blue Ethernet Connector**
- If any of the dimensions specified above (Step 2) are out of specification.
 - Relocate the Wiring Harness in Clip C121 (or equivalent) accordingly in order to meet the specification.
 - If Clip C121 or the wiring harness is damaged, replace the harness.

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3. Part Replacement

- **If all above checks pass and the fault persists**
 - *Replace CADM/CADM2/GNMM. Provide full documentation (including test data and images)*
- **Do not replace modules without clear elimination of ALL harness and connector related failure modes**
- **Be sure to replace correct module**

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