

# Technical Journal

TITLE:

**Internet Connectivity symbols in CCD**

<b>REF NO:</b> TJ 361873.0	<b>ISSUING DEPARTMENT:</b> Technical Service	<b>CAR MARKET:</b> United States and Canada	
<b>PARTNER:</b> 3 US 7510 Volvo Car USA		<b>ISSUE DATE:</b> 2023-01-04	<b>STATUS DATE:</b> 2023-01-11
<b>FUNC GROUP:</b> 3975	<b>FUNC DESC:</b> Mobile data services, general	Page 1 of 4	

“Right first time in Time”

## Attachment

File Name	File Size
Know Your Triangles.pdf	0.1573 MB

Rows beginning with \* are modified

Note! If using a printed copy of this Technical Journal, first check for the latest online version.

## DESCRIPTION:

\*Change in *Vehicle Type*.

**NOTE: Do not replace TCAM units for the symptoms described below.**

If the vehicle has no internet connection and shows either the “Hollow Triangle With An X” or “LTE Full Triangle With An X” (see attached “Know Your Triangles.pdf”) symbol in the CCD please see advice under “Service.”

CCD = Central Console Display  
 DIM = Driver information Module  
 BUB = Back up battery  
 T&C = Terms & Conditions

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## CSC Customer Symptom Codes

Code	Description
EM	Internet Connection/Does not work
7N	Navigation/Other navigation problems
EO	Navigation/Does not work

## DTC Diagnostic Trouble Codes

### Vehicle Type

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis range	Struc Week Range
224							2023-9999		-	202222-999952
225							2023-9999		-	202222-999952
227							2023-9999		-	202222-999952
235							2022-9999		-	202122-999952
236							2022-9999		-	202122-999952
238							2022-9999		-	202122-999952
246							2022-9999		-	202122-999952
256							2023-9999		-	202222-999952
536							2021-9999		-	202037-999952
539							2022-9999		-	202139-999952

## SERVICE:

### Hollow Triangle with X:

This symbol will most likely appear when there is an issue relating to the TCAM unit.

### Customer Questionnaire:

- When was this issue first detected? During or in between driving cycles?
- For how long has this issue been present?
- Is the navigation system and GPS working as expected or is there a message in DIM stating "Searching for GPS"?

### Support:

- If the customer has done a TCAM restart via the front defrost button and 24-48hrs have passed without any improvement, please try to reset the TCAM through the VIDA application.
- If no diagnostic connection is possible, a hard reset of the TCAM BUB (Back-Up Battery) and 12V Main battery (by physically disconnecting power) is needed. Please observe that the BUB needs to be disconnected prior to disconnecting the 12V Main battery.

## LTE Full Triangle With An X:

When LTE is displayed this means that the TCAM unit is connected to a network.

Issue is likely to be caused by either a network issue or communication issue between IHU and TCAM.

## Customer Questionnaire:

- Has the customer accepted the T&C process?
- When was this issue first detected? During or in-between driving cycles?
- For how long has this issue been present?

## **Support:**

- Perform an IHU restart by pressing and holding the home button for approximately 20 seconds.
- If symptom is still present, do a TCAM restart by pressing and holding the front defrost button for approximately 20 seconds.
- If no change after 24-48 hours and no known network disturbances have occurred, please fault trace as normal using VIDA.

## **Warranty claim info:**

To get warranty claim accepted for a job described in this TJ, following data must be used:

Failing Part: No part replacement accepted

VST OP number: 99922-2, General reimbursement acc. to TJ/QB

**Note:** TJ number must be stated in repair order text!

## **VST Operation Number**

VST Operation Number	Description
99922-2	General reimbursement acc. to TJ/QB

## **VEHICLE REPORT:**

Yes, please submit a Vehicle Report if the service solution described in this TJ has no effect. Use concern area "Vehicle Report" and sub concern area "Support needed", use function group 3975.

**To view TJ attachment continue to next page. This TJ has one attachment.**



# KNOW YOUR TRIANGLES

(GOOGLE BUILT-IN)

Updated: December 14, 2022  
Current App v5.22  
Current Car SW 2.5

LTE



“FULL LTE”

You have full connection to the cellular network, Internet, and Google.

LTE



“LTE FULL TRIANGLE WITH AN X”

You have a cellular connection but cannot establish a valid Internet connection.



“HOLLOW TRIANGLE WITH AN X”

You have neither cellular nor a Google/Internet connection.



“FULL TRIANGLE WITH AN X”

You have a cellular connection but limited Internet services.