



Volvo Chassis - Continental eHorizon Module Diagnostic Information - Models VNL, VNR, VNM



> Internal Content

The DTCs reported by the ECU are J1939 and although Premium Tech Tool can read and display the DTCs, it does not provide complete code descriptions or troubleshooting information.

For a list of eHorizon module DTCs with fault tracing information, click on the link below.

[Continental eHorizon DTC List](#)

This solution will be updated when further information is available.



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eHorizon DTC List

ECU Source Address	SPN	FMI	DTC SHORT DESCRIPTION	DTC EXPLANATION	SYSTEM REACTION	POSSIBLE FAULT CAUSES	SERVICE OPERATION TO SOLVE THE PROBLEM
SA 159	521028	14	Bus-off detected on CAN2	Bus-off detected on CAN2 CAN Error frame counter >255	Fault detection is disabled on CAN2	CAN2 wiring issues (e.g. short-circuit) Pin-12: CAN2 H Pin-4: CAN2 L	Check the CAN2 bus and connectors for possible wiring issues and correct
SA 159	521026	12	SW Watchdog Reset Occurred	A reset was triggered by the SW Watchdog. Unknown internal ECU error.	eHorizon system reset will occur	Unknown critical error occurred in eHorizon SW application, and no recovery was possible	If DTC is permanently active, then possible HW component malfunction replace eHorizon ECU
SA 159	521029	31	HW Watchdog Reset Occurred	A reset was triggered by the HW Watchdog. Unknown internal eHorizon error.	eHorizon reset will occur	Unknown critical error occurred in eHorizon Base software and hardware abstraction layer, and no recovery was possible	If DTC is permanently active, then possible HW component malfunction, replace eHorizon ECU
SA 159	521031	3	Over Voltage Error	System detected voltage 16V - 20.5 V or higher on power supply	System shall enter in Sleep state until normal power supply voltage is restored	Overvoltage on Pin-18 power supply (battery)	Check power supply voltage and correct according to normal operation voltage conditions
SA 159	521031	4	Under Voltage Error	System detected voltage 6.5- 9 V or less on power supply	System shall enter in Sleep Run state until normal power supply voltage is restored	Undervoltage on Pin-18 power supply (battery)	Check power supply voltage and correct according to normal operation voltage conditions
SA 159	7820	11	No GNSS input was detected	No GNSS input was detected on CAN. Location data messages are missing or incomplete as input to eHorizon.DTC set only if GPS message missing for more than 30 mins and Truck Speed >3 MPH (5 kph)	Set DTC and continue searching for GNSS input	Missing GPS message from TGW for more than 30 minutes and truck speed >3MPH (5kph)	Check CAN Lines Check TGW GPS If GPS is okay and CAN lines are ok-> clear the fault. If fault still active replace eHorizon ECU
SA 159	521031	13	Calibration Parameters Checksum Error	Calibration parameters checksum error. For the active configuration file the original check sum is different from the calculated check sum.	System checks for a valid configuration file, otherwise the default configuration file is used.	Error during parameters save occurred due to sudden power supply loss.	Perform Key OFF/Key ON, if fault is still active clear DTC from fault memory. If issue appears again, replace eHorizon ECU
SA 159	521024	12	Map Matcher Start Up Error	Map matcher did not start.	eHorizon preview function will not be active. Transmission control unit will not be provided with data needed for predictive cruise control function.	eHorizon engine did not start due to map update issues or SW issue	Perform Key OFF/Key ON, if fault is still active clear DTC from fault memory. If issue appears again, replace eHorizon ECU
SA 159	521024	31	Map Loading Error	Map database was not correctly loaded.	eHorizon preview function will not be available. Transmission control unit will not be provided with data needed for predictive cruise control function.	eHorizon map is inconsistent or incorrect	Replace eHorizon ECU
SA 159	521030	31	Flash Test Error	Corruption of code partition (device was tampered with or flash error)	No reaction, only set DTC.	Corruption of code partition (device was tampered with or flash error)	Replace eHorizon ECU