54–367 Fault Codes With Insignificant Value

TSB-54-367-FTL

Creation Date:2024-05-14

Engine or Vehicle Affected:

- eM2
- eCascadia

This is an informational bulletin only. The described condition is a product improvement or is not warrantable.

Described Condition

In eCascadia and eM2 vehicles, the active fault codes by eDrive common powertrain controller (ECPC) and unified diagnostic services (UDS) are generally reliable and should not be ignored. Troubleshoot beginning with the lowest number SPN then progressively work through faults with increasing numbered SPN's. Fault codes under the J1939 in DiagnosticLink® can be ignored. The purpose of this service bulletin is to provide guidance in avoiding unnecessary actions in response to those active fault code triggers that, despite being triggered, do not require any intervention.

The fault codes listed in the Table 1 and 2 result when the Estop button is pressed. No troubleshooting is necessary with these fault codes until the Estop button is released and the vehicle has been powered down, then repowered. The fault codes listed in Table 3 should generally be ignored. As future software updates are programmed into the vehicles, these fault codes are expected to be eliminated.

Table 1, Fault Codes Active When the Estop Button is Pressed

Source Address	Device Name	SPN	FMI	Description
0	ECPC	8207	14	Fault Reported By A DCB And Relayed To The ECPC To Display An Indication Of The Fault
0	ECPC	517051	3	Short To Voltage Source On EVDM Unit Enable Circuit
0	ECPC	517055	14	HVIL Is Open Circuit While The Vehicle Is Not Moving
0	ECPC	517099	14	Safe Torque Off Active On Inverter 1 (PTI1)
73	DCB1	517042	11	KL30C Voltage Supply Is Low Voltage
102	BMS2	8098	4	System HVIL Circuit Open Or Shorted To Ground
214	DCB2	517042	11	KL30C Voltage Supply Is Low Voltage
225	DCL	8587	18	DCL Input Under Voltage Error
243	BMS1	8098	4	HVIL Circuit For The Battery 1 High Voltage Connectors Is Shorted to Ground

Table 1, Fault Codes Active When the Estop Button is Pressed

Table 2, Faults That will Persist Active When the Estop Button is Released

Source Address	Device Name	SPN	FMI	Description
0	ECPC	517051	5	Open Circuit Detected On Unit Enable Circuit

Table 2, Faults That will Persist Active When the Estop Button is Released

Table 3, Fault Codes Not Actionable and will be Corrected in a Future Software Release

Source Address	Device Name	SPN	FMI	Description
0	ECPC	639	9	OBD-CAN - Busoff (J1939)
0	ECPC	1243	19	ABS / EBS CAN Data Fault
0	ECPC	8002	18	eAxle 1 Oil Pump Speed Less Than The Intended Speed Due To Overtemperature Or Oil Quality
0	ECPC	8207	14	Fault Reported By A DCB And Relayed To The ECPC To Display An Indication Of The Fault
0	ECPC	9100	12	Inverter 1 - Offline or Data Not Plausible
0	ECPC	9101	12	Inverter 2 - CAN Communication Offline or Data Not Plausible
0	ECPC	9436	12	PTI1 Internal Error - Redundant Software Check Disabled Inverter 1
0	ECPC	9437	12	PTI2 Internal Error - Redundant Software Check Disabled Inverter 2
0	ECPC	9506	2	HV Battery Contactor State Mismatch Between Command and Actual While Vehicle Is At Standstill
0	ECPC	9691	4	Radiator Fan Control Signal Short To Ground
0	ECPC	9691	5	Radiator Fan Control Signal Open Circuit
0	ECPC	9692	4	Radiator Fan Control Signal Short To Ground
0	ECPC	9692	5	Radiator Fan Control Signal Open Circuit
0	ECPC	517024	11	CAN Communication Error Detected With Inverter 1 (PTI1)
0	ECPC	517025	11	CAN Communication Error Detected With Inverter 2 (PTI 2)
0	ECPC	517026	11	CAN Communication Error Detected With Inverter 3 (PTI 3)
0	ECPC	517087	14	Low Voltage Battery State Of Charge Or Connection Fault
0	ECPC	517099	14	Safe Torque Off Active On Inverter 1 (PTI1)
0	ECPC	517099	31	Inverter 1 Monitoring Event Fault (PTI 1)
0	ECPC	517100	14	Safe Torque Off Active On Inverter 2 (PTI 2)
0	ECPC	517100	31	Inverter 2 Monitoring Event Fault (PTI 2)
23	ICC5	523021	2	Incompatible/missing ECU variant in Warning Database
23	ICC5	523021	31	The list of ECUs stored in the warning database (WDB) does not match the list of ECUs parameterized in PID 0x20
23	ICC5	523023	31	Instrument Cluster Automatic Configuration of ECU list has not been performed or was not successful

Source Address	Device Name	SPN	FMI	Description
23	ICC5	523061	31	E2E Monitoring of signal group SG_CPC6_C10_AR2_Pkt
23	ICC5	523075	14	The HSVL Line between the instrument cluster and the display group has a malfunction (There is a general electrical fault)
33	sSAM	520848	31	Stalk Switch Right Error - Condition Exists
33	sSAM	521620	4	SAM_ BAT 1 - Blown fuse or connection failure
37	CGW	524140	31	Lost communication with the (Control Unit Network) MUX3 module for 3 seconds or longer
48	EAPU	522502	9	BS_E9 CAN message failure occurred
48	EAPU	522505	9	CPC3_E3 CAN message failure occurred
48	EAPU	522510	9	CPC3_E7 CAN message failure occurred
73	DCB1	12933	2	Erratic Data on the Proximity Detection Circuit
73	DCB1	517030	2	Communication Fault With The Charging Station (EVSE)
73	DCB1	517030	19	Communication Fault With The Charging Station (EVSE)
73	DCB1	517034	11	High Voltage Lockout Active
73	DCB1	517042	11	KL30C Voltage Supply Is Low Voltage
73	DCB1	517043	0	Low Voltage Power Supply Voltage Too High
73	DCB1	517044	31	Charge Coupler Lock Pin State Detection Error
83	SRS2	516098	31	Communication Interruption With The SSAM
102	BMS2	9631	4	The battery low voltage power was shut down in an improper sequence
103	BMS3	9631	4	The battery low voltage power was shut down in an improper sequence
104	BMS4	9631	4	The battery low voltage power was shut down in an improper sequence
105	BMS5	9631	4	The battery low voltage power was shut down in an improper sequence
106	BMS6	9631	4	The battery low voltage power was shut down in an improper sequence
107	BMS7	9631	4	The battery low voltage power was shut down in an improper sequence
108	BMS8	9631	4	The battery low voltage power was shut down in an improper sequence
109	BMS9	9631	4	The battery low voltage power was shut down in an improper sequence
214	DCB2	517013	1	DCB2 KL30C Voltage Lower Than Expected
214	DCB2	517034	11	High Voltage Lockout Active
214	DCB2	517042	11	KL30C Voltage Supply Is Low Voltage
214	DCB2	517044	31	Charge Coupler Lock Pin State Detection Error
225	DCL	4973	11	DCDL Loss of Crash Detection Signal

Source Address	Device Name	SPN	FMI	Description
225	DCL	8087	10	KL15 Circuit Low - Data Communication Indicates Keyswitch is ON
225	DCL	8585	3	DCL Momentary Voltage Output Error
225	DCL	8585	12	DCL Low Voltage Output Too High
225	DCL	8587	18	DCL Input Under Voltage Error
225	DCL	516102	2	Active Discharge Error
225	DCL	516106	2	INT_CAN_BUS_PASSIVE
225	DCL	516112	19	DCL Internal CAN Data Error
225	DCL	516113	19	DCL Internal CAN Data Error
225	DCL	516114	19	DCL Internal CAN Data Error
225	DCL	516115	19	DCL Internal CAN Data Error
225	DCL	516118	19	DCL Internal Data Error
225	DCL	516119	19	DCL Internal CAN Data Error
225	DCL	516120	19	DCL Internal CAN Data Error
225	DCL	516121	19	DCL Internal CAN Data Error
225	DCL	516124	2	DCL Overvoltage Protection Trigger
225	DCL	516127	8	DCL Internal CAN Data Error
225	DCL	516143	12	DCL Internal Data Error
225	DCL	516384	12	DCL Internal Software Fault
230	XMC1	524236	2	Equalizer - Limited Power
230	XMC1	524236	14	Equalizer - Malfunction
230	XMC1	524237	14	EVDM Microcontroller Fault
243	BMS1	9631	4	The battery low voltage power was shut down in an improper sequence

Table 3, Fault Codes Not Actionable and will be Corrected in a Future Software Release

Warranty

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Note:

F37,F38,F40

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