

Caution Code	Location	Code Description	Further Information
C-0001	General	Caution: Head or Tail Light - Open Circuit	Insufficient current draw from lamp circuit
C-0002	General	Caution: Head or Tail Light - Short Circuit	Excessive current draw from lamp circuit
C-0003	General	Caution: Turn Signal or Brake Light - Open Circuit	Insufficient current draw from lamp circuit
C-0004	General	Caution: Left Hand Turn Signal - Error	Only one LH Indicator lamp operational
C-0005	General	Caution: Right Hand Turn Signal - Error	Only one RH Indicator lamp operational
C-0006	General	Caution: Turn Signal or Brake Light - Short Circuit	Excessive current draw from lamp circuit
C-0007	General	Caution: Bluetooth Initialisation Failure	Bluetooth malfunction
C-3001	General	Caution: BMS - Discharge Over Temperature	BMS temp sensor value above specification during operation
C-3002	General	Caution: BMS - Discharge Under Temperature	BMS temp sensor value below specification during operation
Caution Code	Location	Code Description	Further Information
C-1058	Front	Caution: Front Motor - Supply Voltage Low - Power Reduced	Supply voltage to front motor below specification
C-1061	Front	Caution: Front Motor - Supply Voltage High - Power Reduced	Supply voltage to front motor above specification
C-1062	Front	Caution: Front Motor - Over Temperature - Power Reduced	Front hub motor temp sensor value above specification
C-1063	Front	Caution: Front Motor Controller - Over Temperature - Power Reduced	Front motor controller temp value above specification
Caution Code	Location	Code Description	Further Information
C-2058	Rear	Caution: Rear Motor - Supply Voltage Low - Power Reduced	Supply voltage to rear motor below specification
C-2061	Rear	Caution: Rear Motor - Supply Voltage High - Power Reduced	Supply voltage to rear motor above specification
C-2062	Rear	Caution: Rear Motor - Over Temperature - Power Reduced	Rear hub motor temp sensor value above specification
C-2063	Rear	Caution: Rear Motor Controller - Over Temperature - Power Reduced	Rear motor controller temp value above specification
Fault Code	Location	Code Description	Further Information
F-0001	General	Fault: ECU - Internal Fault	ECU internal memory/processor failure
F-0003	General	Fault: ECU - Over Temperature	ECU temp value above specification
F-0004	General	Fault: Internal Communications error	N/A
F-0005	General	Fault: 12V Circuit - Voltage Low	BMS 12V output value below specification
F-0006	General	Fault: 12V Circuit - Voltage High	BMS 12V output value above specification
Fault Code	Location	Code Description	Further Information
F-1001	Front	Fault: ECU - Loss of Communication with Front Controller	No communication between ECU and front motor controller
F-1011	Front	Fault: Front Motor - Controller Supply Voltage High	Supply voltage to front motor controller above specification
F-1012	Front	Fault: Front Motor - Phase Current High	Front hub motor phase current above specification
F-1013	Front	Fault: Front Motor - Current Sensor Fault	Front motor current sensor value abnormal
F-1014	Front	Fault: Front Motor - Current Sensor Above Threshold	Front motor current sensor value above specification
F-1015	Front	Fault: Front Motor - Controller Temperature High	Front motor controller temp value abnormal
F-1016	Front	Fault: Front Motor - Hall Sensor Signal Error	Abnormal signal from front hall sensor
F-1017	Front	Fault: Front Motor - Controller Supply Voltage Low	Front motor controller supply voltage below specification
F-1018	Front	Fault: Front Motor - Phase Voltage out of Range (Static Test)	Front hub motor phase voltage abnormal - static test
F-1021	Front	Fault: Front Motor - Loss of Communication	Loss of communication between Front motor controller & Front hub motor
F-1022	Front	Fault: Front Motor - Phase Current High (Intermittent)	Front hub motor current spike (intermittent)
F-1023	Front	Fault: Front Motor - Temperature High	Front motor temp sensor value abnormal
F-1024	Front	Fault: Throttle - Voltage out of Range	Throttle input voltage abnormal

F-1025	Front	Fault: Front Motor - Controller Supply Voltage High (Intermittent)	Front motor controller supply voltage above specification
F-1026	Front	Fault: Front Motor - Controller Internal Error	Front motor controller internal error
F-1027	Front	Fault: Front Motor - Phase Voltage out of Range (Dynamic Test)	Front hub motor phase voltage abnormal - dynamic test
F-1028	Front	Fault: Front Motor - Controller Supply Voltage Low (Intermittent)	Front motor controller supply voltage below specification (intermittent)
F-1051	Front	Fault: Front Motor - Communication Timeout	Front motor controller loss of communication with front hub motor (intermittent)
F-1052	Front	Fault: Front Motor - Hall Sensor Signal Error	Abnormal signal from front hall sensor
F-1053	Front	Fault: Front Motor - Wheel Movement Restricted	Front motor current draw above specified value
F-1054	Front	Fault: Front Motor - Wheel Speed Signal Error	Abnormal signal from front hall sensor
F-1055	Front	Fault: Front Motor - Internal Communications error	Front motor controller internal error
F-1056	Front	Fault: Front Motor - Hall Sensor Signal Error	Abnormal signal from front hall sensor
F-1057	Front	Fault: Front Motor - Hall Sensor Signal Error	Abnormal signal from front hall sensor
F-1064	Front	Fault: Front Motor - Controller Supply Voltage Low - Power Reduced	Front motor controller supply voltage below specification
F-1065	Front	Fault: Front Motor - Controller Supply Voltage High - Power Reduced	Front motor controller supply voltage above specification
F-1066	Front	Fault: Front Motor - Thermal Overload - Power Reduced	Front motor temp sensor value above specification (critical)
F-1067	Front	Fault: Front Motor - Low Ambient Temperature	Front motor temp sensor value below specification
F-1068	Front	Fault: Front Motor - Loss of Communication with BMS	Front motor controller- loss of communication with BMS
<b>Fault Code</b>	<b>Location</b>	<b>Code Description</b>	<b>Further Information</b>
F-2001	Rear	Fault: ECU - Loss of Communication with Rear Controller	No communication between ECU and Rear motor controller
F-2011	Rear	Fault: Rear Motor - Controller Supply Voltage High	Supply voltage to Rear motor controller above specification
F-2012	Rear	Fault: Rear Motor - Phase Current High	Rear hub motor phase current above specification
F-2013	Rear	Fault: Rear Motor - Current Sensor Fault	Rear motor current sensor value abnormal
F-2014	Rear	Fault: Rear Motor - Current Sensor Above Threshold	Rear motor current sensor value above specification
F-2015	Rear	Fault: Rear Motor - Controller Temperature High	Rear motor controller temp value abnormal
F-2016	Rear	Fault: Rear Motor - Hall Sensor Signal Error	Abnormal signal from Rear hall sensor
F-2017	Rear	Fault: Rear Motor - Controller Supply Voltage Low	Rear motor controller supply voltage below specification
F-2018	Rear	Fault: Rear Motor - Phase Voltage out of Range (Static Test)	Rear hub motor phase voltage abnormal - static test
F-2021	Rear	Fault: Rear Motor - Loss of Communication	Loss of communication between Rear motor controller & Rear hub motor
F-2022	Rear	Fault: Rear Motor - Phase Current High (Intermittent)	Rear hub motor current spike (intermittent)
F-2023	Rear	Fault: Rear Motor - Temperature High	Rear motor temp sensor value abnormal
F-2024	Rear	Fault: Throttle - Voltage out of Range	Throttle input voltage abnormal
F-2025	Rear	Fault: Rear Motor - Controller Supply Voltage High (Intermittent)	Rear motor controller supply voltage above specification
F-2026	Rear	Fault: Rear Motor - Controller Internal Error	Rear motor controller internal error
F-2027	Rear	Fault: Rear Motor - Phase Voltage Out of Range (Dynamic Test)	Rear hub motor phase voltage abnormal - dynamic test
F-2028	Rear	Fault: Rear Motor - Controller Supply Voltage Low (Intermittent)	Rear motor controller supply voltage below specification (intermittent)
F-2051	Rear	Fault: Rear Motor - Communication Timeout	Rear motor controller loss of communication with Rear hub motor (intermittent)
F-2052	Rear	Fault: Rear Motor - Hall Sensor Signal Error	Abnormal signal from Rear hall sensor
F-2053	Rear	Fault: Rear Motor - Wheel Movement Restricted	Rear motor current draw above specified value
F-2054	Rear	Fault: Rear Motor - Wheel Speed Signal Error	Abnormal signal from Rear hall sensor
F-2055	Rear	Fault: Rear Motor - Internal Communications error	Rear motor controller internal error
F-2056	Rear	Fault: Rear Motor - Hall Sensor Signal Error	Abnormal signal from Rear hall sensor

F-2057	Rear	Fault: Rear Motor - Hall Sensor Signal Error	Abnormal signal from Rear hall sensor
F-2064	Rear	Fault: Rear Motor - Controller Supply Voltage Low - Power Reduced	Rear motor controller supply voltage below specification
F-2065	Rear	Fault: Rear Motor - Controller Supply Voltage High - Power Reduced	Rear motor controller supply voltage above specification
F-2066	Rear	Fault: Rear Motor - Thermal Overload - Power Reduced	Rear motor temp sensor value above specification (critical)
F-2067	Rear	Fault: Rear Motor - Low Ambient Temperature	Rear motor temp sensor value below specification
F-2068	Rear	Fault: Rear Motor - Loss of Communication with BMS	Rear motor controller- loss of communication with BMS