

Applies to:

Mercury GT scooter (Product codes: GT)

Diagnostics:

200A version used on the Mercury GT scooter. When the keyswitch is turned on and a fault is detected, the leftmost bar on the battery gauge will flash. To indicate the fault, the bar will flash a number of times, then pause and flash another number of times. (e.g. for a low battery voltage the bar will flash once, pause, then flash 4 times).



FLASH CODE	DESCRIPTION	EXPLANATION	POSSIBLE CAUSE
1 pause 1	HARDWARE FAILSAFE 4	Current limit fault	1. Short in motor or motor wiring 2. Controller failure
1 pause 2	HARDWARE FAILSAFE 1	EEPROM fault	1. EEPROM failure or fault
1 pause 3	HW FAILSAFE	Motor Voltage Fault	1. Motor voltage does not correspond with throttle request. 2. M-output shorted to ground 3. Internal motor shorted ground 4. Controller failure
1 pause 4	HARDWARE FAILSAFE 2	Output section fault	1. Short in motor or in motor wiring 2. Controller failure
2 pause 1	THROTTLE FAULT 1	5kΩ-0 or wiper fault	1. Throttle input wire open 2. Throttle input wire short to ground or B+ 3. Throttle pot defective 4. Wrong throttle type selected
2 pause 2	SRO	SRO fault	Not applicable
2 pause 3	HPD	HPD (High pedal disable) fault	1. Throttle pot (wigwag) deflected when keyswitch turned on 2. Improper sequence of keyswitch, power enable and throttle inputs. 3. Misadjusted throttle pot
3 pause 1	BB WIRING CHECK	Emergency Reverse wiring fault	Not applicable
3 pause 2	PROC / WIRING FAULT	HPD fault present for > 5s	1. Misadjusted throttle 2. Broken throttle pot 3. Broken throttle mechanism
3 pause 3	HARDWARE FAILSAFE 3	Main contactor fault	1. Main contactor welded 2. Main contact driver fault 3. Main contactor coil fault
3 pause 4	EM BRAKE DRVR FAULT	EM brake driver fault	1. EM brake coil shorted or open 2. EM brake wiring open
4 pause 1	LOWER BATTERY VOLTAGE	Low battery voltage	1. Battery voltage < 16V 2. Corroded or loose battery terminal 3. Loose controller terminal
4 pause 2	OVERVOLTAGE	Overvoltage	1. Battery voltage > 36V 2. Vehicle operating with charger attached
4 pause 3	PRECHARGE FAULT	Precharge fault	1. Internal controller fault 2. Low battery voltage
4 pause 4	THERMAL CUTBACK	Over / Under – temperature cutback	1. Temperature > 95°C or <-25°C 2. Excessive load on vehicle