

ERROR CODE TROUBLESHOOTING GUIDE (Updated July 6th, 2023)

Error Code	Fault Name	Protection	Troubleshooting	Reason
1	Software Overcurrent	Shutdown	 Restart with the key Replace the controller Replace the motor 	 Motor angle signal is disturbed Controller current sensor abnormal Motor code plate failure
2	Motor over speed	Shutdown	 Restart with the key Change controller harness Replace the controller Replace the motor 	 Motor angle signal abnormal Controller code plate signal circuit abnormal Motor code plate failure
3	Battery over-voltage	Shutdown	 Restart with the key Check the controller power cord and air switch harness connection Replace the battery 	 Main power supply cord loose Battery power absorption abnormal
4	Ignition/key switch power abnormal	Shutdown	 Restart with the key Replacement the ignition Replace the battery 	 Ignition/ignition harness loose 2. Battery abnormal
5	Controller 12V power abnormality	Shutdown	1. Replace the controller	1. Controller internal power supply abnormal
6	Controller 5V power abnormal	Shutdown	 Replacement the throttle Replace the motor encoder Replace the controller 	 Throttle 5V power supply short circuit Encoder 5v power supply short circuit Controller 5v power supply abnormal
7	Angle/tilt sensor disconnection	Shutdown	 Replace the controller Hall harness Replace the controller Replace the motor 	 Encoder angel signal abnormal or missing



8	Hardware overcurrent	Shutdown	 Replace the throttle Replace the controller 2. Replace the motor 	 Throttle 5v wire short circuit Encoder 5v wire short circuit Controller current sensor abnormal Motor insulation abnormal Motor encoder signal abnormal
9	Current closed loop/phase wire failure	Shutdown	1. Replace the controller	 Controller current sensor signal abnormal Controller power MOS tube damage
10	Battery under voltage/low voltage	Derate	 Charge the battery Replace the battery 	 Battery voltage lower than protection voltage
11	Controller overheated/temperature	Derate	 Turn off the power. Let the controller cool down Replace the controller 	 Controller temperature higher than protection temperature
12	Motor overheated/temperature	Derate	 Turn off the power. Let the motor cool down Replace the controller harness Replace the motor harness 	 Motor temperature signal wire disconnected Controller temperature higher than protection temperature
13	Current sensor abnormal	Shutdown	1. Replace the controller	1. Controller current sensor abnormal
14	Motor signal interference	Shutdown	 Replace the controller harness Replace the motor 	 Angel signal is interrupted Angel signal connection abnormal Motor encoder is damaged
15	Throttle no signal	Shutdown	 Check the throttle harness for loose connections Replace the throttle Replace the main harness 	 Throttle wire is broken Throttle is damaged Main harness is damaged
16	Throttle position sensor not reset	Shutdown	 Release the throttle and restart with key Replace the throttle 	 Throttle not reset before starting Throttle is damaged



17	Motor blocked	Derate	 Check the controller wiring harness for loose connections Check the driving wheel Replace the motor 	 Motor output is blocked Motor phase wire position is wrong
18	Battery communication/BMS disconnect	Shutdown	 Check the wiring harness for loose connections Replace the controller harness Replace the power cord Replace the battery 	 Controller failed to receive the signal from battery
19	Battery Communication/BMS Failure	Shutdown	1. Replace the battery	1. Battery internal communication abnormal
21	Brake failure	Shutdown	 Release the brake and restart with key Replace the brake power off switch 	 Brake is on working status when starting the ignition
Parking gear cannot be released	Power off switch signal abnormal	Shutdown	 Hold brakes and D key for 10 seconds to unlock parking gear Replace the kickstand switch Replace the main harness 	1. Parking gear switch abnormal