

ASIC MPC DIAGNOSTICS CODES

The Amigo is equipped with an ASIC MPC. This controller has a built-in diagnostic feature that will cause the diagnostic light LEDs (located on either side of the battery gauge) to flash a numeric code indicating service issues and to aid in diagnoses. When indicating a service problem, the diagnostic light LEDs will flash, hesitate for a moment, and then flash again. Follow the code listings below to determine the problem. If the code indicates a service problem, contact your local service representative or call the Amigo service department at **(800) 248-9131** for instructions to verify and correct the problem.

****Note:** First solution listed for each diagnostic code will fix that problem 80% of the time. Attempt solutions in the order listed.

CODE	CAUSE	SOLUTIONS
1-1	EM Brake windings or connections are shorted	<ol style="list-style-type: none"> (1) Unplug handle cable and plug back in. (2) Check all wiring connections and output. (3) Disconnect brake and cycle key, if code changes to 1-2, replace brake. (4) Replace controller.
1-2	EM Brake windings or connections are open or EM brake release lever in "freewheeling position"	<ol style="list-style-type: none"> (1) Ensure EM brake lever is in drive position. (2) Unplug handle cable and plug back in. (3) Check all wiring connections and output. (4) Replace brake. (5) Replace controller.
2-1	Motor windings or connections are shorted	<ol style="list-style-type: none"> (1) Check motor wiring connections. (2) Check running light (shorts). (3) Disconnect brake and cycle key, if code changes to 2-2, replace motor. (4) Replace controller.
2-2	Motor windings or connections are open or EM brake release lever in "freewheeling position"	<ol style="list-style-type: none"> (1) Ensure EM brake lever is in drive position. (2) Check motor wiring connections. (3) Replace motor. (4) Replace controller.
2-3	Power shortage	<ol style="list-style-type: none"> (1) Check/replace batteries. (2) Check/replace charger & charge wires. (3) Check/replace controller.
2-4	PSL motor short	<ol style="list-style-type: none"> (1) Unplug unit and plug back in. (2) Check PSL wiring and connections. (3) Disconnect motor and cycle key, if code goes away, replace motor. (4) Check/replace controller.
3-1	Over temperature condition	<ol style="list-style-type: none"> (1) Allow to sit idle for 15 minutes, restart and see if code disappears. (2) Ensure EM brake and/or motor is not causing excessive amperage draw. (3) Replace controller.
4-1	Charger is supplying too much voltage during the battery charge cycle	<ol style="list-style-type: none"> (1) Replace battery charger if voltage is 32 volts or higher. (2) If 31 volts or lower, replace controller.
4-2	Charger not dropping back into "float mode" during battery charging cycle	<ol style="list-style-type: none"> (1) Replace charger wiring. (2) Replace battery charger. (3) Replace controller.
5-1	Controller drive FETS shorted	<ol style="list-style-type: none"> (1) Replace controller.
5-2	Controller regenerative braking FETS shorted	<ol style="list-style-type: none"> (1) Replace controller.
5-3	Throttle potentiometer or throttle circuitry reading fail band fault	<ol style="list-style-type: none"> (1) Check to ensure handle cable is in good condition. (2) Check that throttle lever moves freely and returns to center. (3) Replace throttle potentiometer.
5-4	Requires software revision	<ol style="list-style-type: none"> (1) Replace controller.
5-5	Component failure	<ol style="list-style-type: none"> (1) Replace controller.