Troubleshooting

Operating errors appear as safety codes in the display. If possible, correct the error. If errors continue, contact FMA Customer Service.

Safety Code/Message	Problem
Increase Supply	NiCd/NiMH charging can't maintain constant current
Supply <10 Volts	Supply voltage is too low
Supply >32 Volts	Supply voltage is too high
Supply Unstable	Check connections. Increase wire size to charger
Preset no 8Sv2	Preset is meant for a different charger
Bad Preset Version	Preset has a bad version number
NiCd Amps Hi Temp	NiCd/NiMH charging can't maintain constant current. Reduce charge current
Series Chargers	Check the battery output. Make sure the pack is not in series with another pack.
P. Library Empty	No presets are in the library
Low Voltage Cell	A cell is too low
Preset is Hidden	A hidden preset is trying to run
Reverse Polarity	Check the output pack
Preset is Empty	Preset will not run on charger
ENTR not Pressed	The chemistry has not been confirmed
System Softstart	Check the power supply connections. Check the PL8 input current limiting
Preset is Locked	Locked presets can not be changed
Cell No Add Up	Check the node connector and adapters.
Max Cells Error	The unbalanced cell limit has been exceeded
No Pack	A pack has not been detected
Bad Cell Count	Check the node wires and adapter. Check that the proper node wiring configuration is selected (XH or FMA)
Lost Data Link	Slave charger has an error
Cells Exceeded	The maximum allowed number of cells has been exceeded
Un-Bal Only	The node wire shouldn't be connected in unbalanced charging
Charge Timeout	The maximum charge time has been exceeded
Cell Cnt Changed	The cell count has changed. Check the pack
NiCd Detected	A NiCd/NiMH pack has been detected in another chemistry
Wrong Cell Count	Check the node wiring and/or selected node type (XH or FMA)
Sply V. down 37%	The supply voltage has dropped too much
Sply < Low Limit	The supply voltage is less than the low limit set point.
Options Corrupt	The options checksum is bad. Factory Restore the charger.
Hi node V.Drop	Node only charging has a high voltage drop. Check the wiring.
Node Over Amps	Check the wiring
1 Primary Only	Check the charger addresses
ERROR ON EXP. CH	One of the slaves has stopped
ERROR ON PRIMARY	The master charger has stopped
Banana Over Amps	Check the wiring for a loose connection. Check the supply wiring too.
WDT System Reset	Check the supply wiring
SVS System Reset	Check the supply wiring

Bananas Removed	The bananas were removed when charging
Negative Amps	Check the supply wiring
Chg. Not Allowed	The preset will not allow charging
Cell V. Too Hi/L	The cell voltage is out of range
Pack Below 3.0V	The pack voltage is too low. Check the preset Flag Bad Pack setting
REPLACE BAD PACK	Check the preset Flag Bad Pack setting
Exp. Ch Com. Err	Check that all the chargers have a good common ground

Safety Code #78	High voltage when off
Safety Code #79	CH1CELLS out of range
Safety Code #80	Regenerative voltage setting is corrupt
Safety Code #81	CHSNUMBER stuck in loop
Safety Code #82	Amps out of range
Safety Code #83	Supply low volt setting is corrupt
Safety Code #84	Regen and charge enabled
Safety Code #85	Amps negative in charge
Safety Code #86	Amps positive in discharge
Safety Code #87	Regen with no discharge
Safety Code #88	AMPSDSCHRANGE in charge mode
Safety Code #89	Supply battery has changed
Safety Code #90	Unknown screen number
Safety Code #92	Mux number error
Safety Code #93	Calibration checksum bad. Send charger to factory
Safety Code #94	Bad EEPROM write
Safety Code #95	Bypass Over-volt Check node wiring or selected node wiring
Safety Code #96	PWM ratio too high. Check the power supply and output wiring
Safety Code #97	Amps were not read on startup
Safety Code #98	P_RAMPRESET not master
Safety Code #99	Bad mode number
Safety Code #100	Temperature out of range
Safety Code #105	Preset not factory validated
Safety Code #106	Preset number out of range
Safety Code #107	Charge timeout out of range
Safety Code #108	Preset loaded while charging
Safety Code #109	Charge termination unknown
Safety Code #110	Expansion channel found in mode 30
Safety Code #111	Preset cell over volts too high
Safety Code #112	MEASUREDDUTY16 > 1024
Safety Code #113	Charge PWM not regulating
Safety Code #114	Bad preset flash check while running
Safety Code #115	Bad preset flash checksum on start
Safety Code #116	Bad preset ram checksum on start
Safety Code #117	Bad segment checksum on start
Safety Code #118	Bad segment checksum while running

Safety Code #119	Bananas connected while charging
Safety Code #120	Cell count not verified
Safety Code #121	Shunt FET off while CHG/DSCHING
Safety Code #122	Unknown chemistry
Safety Code #123	No next charge screen to show
Safety Code #124	Bad run screen number
Safety Code #125	Cell count is zero
Safety Code #126	Serial0 recursive overflow
Safety Code #127	Discharge mode timeout
Safety Code #128	Peek detect set past 15 minutes
Safety Code #129	NiCd/NiMH chem. must use fallback
Safety Code #130	Lith chem. Must not use fallback
Safety Code #131	Oscillator calibration erased. Send back to factory
Safety Code #132	Bad amps calibration. Send back to factory
Safety Code #133	PWM duty cycle too low
Safety Code #134	Bad options on expansion channel
Safety Code #135	Zero amps PWM too high
Safety Code #136	Charge and discharge are enabled
Safety Code #137	Bad preset checksum in ram
Safety Code #138	Discharge amps are positive
Safety Code #139	Discharge is over 120 watts
Safety Code #140	Amps set too low
Safety Code #141	Cell detection minutes is zero
Safety Code #142	No prev charge screens to show
Safety Code #143	Corrupt charge voltage
Safety Code #144	Copy preset error
Safety Code #145	Discharge set amps out of range
Safety Code #146	Discharge cutoff volts error
Safety Code #147	Discharge and bypass are enabled
Safety Code #149	Bypass and discharge at the same time
Safety Code #151	PWMOUT16 is zero
Safety Code #152	Switching frequency changed while charging
Safety Code #154	Bad Exp. Ch. Preset CRC
Safety Code #155	Exp. Ch. Start error
Safety Code #156	Network buffer full
Safety Code #157	Unknown NETBUFFER command
Safety Code #159	Discharge over current
Safety Code #200	Memory dump location 1