

ERROR CODES

BIKES

3610, 3670, 3710, 3770, The BIKE and SEMI

ERROR	DESCRIPTION	PROBABLE CAUSE
System stall	System will not calibrate	Belt worn, broken or off flywheel
X	Large red X displayed	Replace display or send in for repair

3900, 3950, 600C and 600R, Upright & Recumbent

ERROR	DESCRIPTION	PROBABLE CAUSE
3	Calibration failure	Reset to original settings
LO-BAT	Low battery voltage	Charge battery to 6 volts

BikeMax 1000 (Friction Belt)

ERROR	DESCRIPTION	PROBABLE CAUSE
5	No Slack	Replace lower board

CROSS TRAINING

600A, ARC Trainer

ERROR	DESCRIPTION	PROBABLE CAUSE
bAd0	Bad Checksum	Recycle power, replace display board
bAd2	Internal RAM error	Recycle power, replace display board
bAd3	Watchdog timeout	Recycle power, replace display board
Err3	Speed sense lost	Check speed sensor disc, lower board and brake
Err5	No index switch sense within timed limit	Calibrate elevation motor, replace motor, replace lower board
Err7	EEPROM error, memory lost	Replace display board
ErrE	Index switch always on	Calibrate elevation motor, replace motor

600H, The HIKER

ERROR	DESCRIPTION	PROBABLE CAUSE
3	Calibration failure	New Display or EPROM? Reset to original settings
LO-BAT	Low battery voltage	Charge battery to 6 volts, Replace battery

STEPPERS

400S, 500S, 700S, 800S & Climbmax models

ERROR	DESCRIPTION	PROBABLE CAUSE
5	No Slack	Test switch in test mode, Adjust switch, Possible cut in display cable.
6	No Brake	Adjust slack switch, replace motor
7	Can't slow down	Check RPM sensor and disk

Trotter 3300

ERROR	DESCRIPTION	PROBABLE CAUSE
1	NOVRAM error	Reseat EPROM, Replace, if not display needs repair
2	No speed signal	Does motor rotate? Check LED on MCB and pick-up
3	No speed lock	Replace MCB

TREADMILLS

Trotter Elite, Sport & Pro

ERROR	DESCRIPTION	PROBABLE CAUSE
bAd0	Bad Checksum	Turn the treadmill to the off (O) position and back on, Replace display board
bAd2	Internal RAM error	Turn the treadmill to the off (O) position and back on, Replace display board
bAd3	Watchdog timeout	Turn the treadmill to the off (O) position and back on, Replace display board
Err1	Belt didn't start (or no speed sense)	Perform speed calibration, check speed sensor, check motor brushes, drive motor, display cable then lower board
Err2	Under speed (2mph for 2 seconds without correction in process)	Perform speed calibration procedure, check speed sensor, check belt and deck then drive motor
Err3	Speed sense lost	Check speed sensor, lower board, drive motor then display cable
Err5	No 0 switch sense within timed limits. This is declared when the timed elevation reaches -2% without tripping the index	Check elevation motor calibration, then lower board
Err6	Over speed (1 mph for 1 second or 2 mph for 0.2 seconds without correction)	Check speed sensor
Err7	EEPROM error (memory lost, loads new defaults, enters Test Mode)	Replace display board
Err9	Brush wear too low. Indicator has been activated for over 100 miles	Check and replace motor brushes
ErrE	0% always on (or switch disconnected or wired backwards). This means that timed elevation has gone up 2% and the index is still sensed	Check elevation motor calibration

300T

ERROR	DESCRIPTION	PROBABLE CAUSE
1	No speed signal at startup	With or without belt movement? Lower board or brushes
3	Loss of speed signal	Check speed sensor, sensor gap and cable
4	No frequency lock	Noisy line voltage, Install dedicated outlet
5	Elevation error	Check voltage to motor, potentiometer and cable
6	Over speed	Check speed sensor and cable and cap
7	Loss of NOVRAM data	Reseat EPROM, Replace, if not display needs repair

600T

ERROR	DESCRIPTION	PROBABLE CAUSE
Born	Un-initialized EEPROM	Will load defaults, and enter test mode, cycle power
Bad0	EPROM checksum failure	Replace EPROM
Bad1	Faulty microprocessor reset	Replace Microprocessor
Bad2	Internal RAM error	Replace display board
Bad3	Watchdog fault type 1	
Bad4	Watchdog fault type 2	
1	No speed signal at startup	With or without belt movement? Speed sensor, lower board, brushes
2	Under speed, drops 2 MPH for 2 seconds	Check speed sensor, drive motor, belt, deck
3	Loss of speed signal	Check speed sensor, sensor gap and cable
5	Elevation switch did not find 0%	Cycle power, check cables and elevation motor
6	Over speed, 1 MPH over for 1 sec. Or 2 MPH for .2 sec.	Check speed sensor, cable
7	Memory lost, loads new defaults, enters test mode	Cycle power, replace EPROM, upper display board
8	Incorrect rate of acceleration or deceleration of belt speed.	See error 2 & 6
9	Brush wear too low, activated 100 miles(161KM) ago	Replace both brushes
E	0% switch always on	Check elevation cables and motor

710T, 645, 585, 545, 535, 525, 540, 410T, CXT

ERROR	DESCRIPTION	PROBABLE CAUSE
1	No speed signal at startup	With or without belt movement? 130 VDC spike? SCR or brushes
2	Excessive current draw	Check amp draw with & without load, Belt & Deck, or motor circuit
3	Loss of speed signal	Check speed sensor, sensor gap and cable
4	No frequency lock	Noisy line voltage, Install dedicated outlet
5	Elevation error	Calibrate, Check voltage to motor, potentiometer and cable
14	Software error	Reseat EPROM, Replace
50	Over speed	Check speed sensor and cable, SCR, cap, brake on XL models
70	Loss of NOVRAM data	Reseat EPROM, Replace, if not display needs repair

700T, 640, 510, 400T

ERROR	DESCRIPTION	PROBABLE CAUSE
1	No speed signal at startup	With or without belt movement? 130 VDC spike? SCR or brushes
2	Excessive current draw	Check amp draw with & without load, Belt & Deck, or motor circuit
3	Loss of speed signal	Check speed sensor, sensor gap and cable
4	No frequency lock	Noisy line voltage, Install dedicated outlet
5	Elevation error	Calibrate, Check voltage to motor, potentiometer and cable
6	Over speed	Check speed sensor and cable, SCR and cap
7	Loss of NOVRAM data	Reseat EPROM, Replace, if not display needs repair

900T, 685

ERROR	DESCRIPTION	PROBABLE CAUSE
1	PWM Shutdown	Excessive drive motor current
2	Belt speed loss	Speed signal lost for more than 1 second
3	No belt speed	No speed signal detected at startup
4	Belt over speed	Belt speed exceeded the set speed by +/- 1 MPH
6	Motor over voltage	Motor voltage exceeded 200 VDC for 200 milliseconds
8	Power fault	Drive motor voltage below 190 VDC for 5 seconds
10	Elevation over speed	Elevation motor exceeded 3800 RPM for 2 seconds
11	No elevation speed	No movement detected when elevation powered
12	Elevation limit	Right side limit switch is open
13	Elevation time limit	Motor driven for 60 seconds without reaching limit
14	Communication time-out lower	No message from upper board for 3 seconds
15	Line tick loss	Timing lost from lower board
16	Loss of NOVRAM data	NOVRAM data does not match EPROM version, Replace EPROM
17	No lower board	No info received from lower board at startup
18	Communication time-out upper	Signal interrupted from PWM to DMD
19 and higher	Software errors	Software error occurred in program, replace EPROM then Micro

CXT Fat Pak

ERROR	DESCRIPTION	PROBABLE CAUSE
1	Overspeed	Check speed sensor and cable, SCR and cap
2	Underspeed	Check speed sensor and cable, SCR and cap
3	Excessive current draw	Check amp draw with & without load, Belt & Deck, or motor circuit

Q25ci, Q20ci

ERROR	DESCRIPTION	PROBABLE CAUSE
E-1	Speed sensor failure	Check gap, target scratched? Replace speed sensor
E-2	Intermittent speed sensor reading	Incorrect gap, replace sensor
E-3	Elevation malfunction	Fuse on LCB, Sensor, limit switch, motor or LCB
E-4	Processor failure	Replace processor
E-5	Zero crossing failure	Noisy line, replace LCB
E-6	Processor failure	Replace processor

Q45 the MILL, Q31ci, Q33ci, Q35ci

ERROR	DESCRIPTION	PROBABLE CAUSE
1	Start-up power error	Speed sensor, poor connection, motor
2	Maximum power error	Low line voltage, on extension cord?
3	Processor failure	Replace processor
4	Speed sensor failure	Check gap, target scratched? Replace speed sensor
5	Intermittent speed sensor reading	Incorrect gap, replace sensor
6	Processor checksum error	Replace processor
7	Line frequency error	50 or 60 Hz? Change in setup mode
ERR	Lift error	Fuse on LCB, Sensor, limit switch, motor or LCB