

**Table 3–2. Electronic Issues**

Problem	Possible Causes	Remedy
Walking belt stops, and no error message appears.	User hit the Ergo stop button.	<ul style="list-style-type: none"> <li>Press <b>START</b> to resume workout.</li> </ul>
	Ergo PCB is not grounded.	<ul style="list-style-type: none"> <li>Ground the Ergo PCB.</li> </ul>
CHR does not work.	Contact plates have excessive moisture under them.	<ul style="list-style-type: none"> <li>Replace the contact plates if cleaning them first does not resolve the problem.</li> <li>Replace the CHR PCB.</li> </ul>

## Error Reporting

The current lists of errors are for the firmware version LED 1.0 and LCD 5.0. The system reports various problems to the user via the display. The format includes the text line reporting the error.

### Definitions

**Warning**—A message that appears on the console display that informs you of a condition that requires attention but does not stop treadmill operation.

**Error**—A message that appears on the console display that informs you of a condition that halts the operation of the treadmill and which requires immediate attention.

**Table 3–3. Error List**

Label	Type	Response	Description
NO ERROR	N/A	Displayed in the Error Log if no events.	Placeholder label.
PROGRAM ERROR	Error	Start-up—Stops operation.	ALL—Microprocessor fails self-test program memory check sum error. Display will be blank and the console will beep twice.
STATIC RAM ERROR	Error	Start-up—Stops operation.	ALL—Microprocessor fails self-test RAM check sum error. Display will be blank, and the console will beep. It will beep three times for an Internal RAM error. It will beep four times for an external RAM error.
EEPROM ERROR	Error	Start-up—Stops operation.	ALL—Microprocessor fails self-test EEPROM chksum error. All of the EPROM values will be loaded with the defaults. No error message appears.
TM HW COM ERROR	Error	Anytime—Goes to idle. Treadmill slowly stops.	Treadmill UART hardware link failure.
TM COM ERROR	Error	Anytime—Goes to idle. Treadmill slowly stops.	Treadmill E204 drive communication failure low.
DRIVE ERROR	Error	Program operation—Goes to idle. Treadmill stops quickly.	Treadmill E209 output switching fault low.

**Table 3–3. Error List**

Label	Type	Response	Description
OUT CUR ERROR	Error	Program operation—Goes to idle. Treadmill slowly stops.	Treadmill E208 output current too low.
BELT OVRLD ERROR	Warning	During movement—Displays message until the user presses <b>CLEAR</b> .	Treadmill E207 moderate drive overload. Designed to inform the user that the belt or deck will need to be replaced soon.
SYS OVRLD ERROR	Error	Program operation—Goes to idle. Treadmill slowly stops.	Treadmill E203 high drive overload.
DRV MON ERROR	Error	Program operation—Goes to idle. Treadmill slowly stops.	Treadmill E210 current monitoring circuit failure.
CONFIG RQRD	Error	Start-up—Stops operation.	Treadmill E212 configuration not allowed.
GRD LIMIT ERROR	Error	During change—Goes to idle. Treadmill slowly stops.	Treadmill E201 grade position outside limits.
GRD MOVE ERROR	Error	During change—Goes to idle. Treadmill slowly stops.	Treadmill E211 grade system detected a non-requested response.
SPD CHANGE ERROR	Error	Program operation—Goes to idle. Treadmill slowly stops.	TM E(new) drive is commanded to change speed but doesn't.
STUCK KEY	Error	Start-up—Stops operation.	One of the keypad keys are stuck in an active state. Reports only "Stuck key."

**Table 3–4. Future Errors**

Label	Type	Response	Description
CS HW COM ERROR	Warning	Start-up—Stops CSAFE but continues user selection.	ALL—CSAFE UART hardware link failure.
CS COM ERROR	Warning	Anytime—Stops CSAFE but continues program.	ALL—CSAFE communication failure.
STUCK KEY	Error	Start-up—Locks out key.	Reports which key is stuck.
POWER LOSS	Warning	Anytime—Goes to idle. Treadmill slowly stops.	Loss of power to the motor drive electronics.

**Table 3–5. Error Resolution**

Error Code	Action
E204	Verify the cable connections at both ends. Check for bent or broken pins, and replace if required. If error persists, replace the VSD or controller as necessary.
E209	Replace the VSD.
E208	Replace the VSD.
E207	Replace the belt or deck if worn; otherwise, press <b>CLEAR</b> .
E203	High Motor overload caused by one of the following: <ol style="list-style-type: none"> <li>1 Runner heavier than weight / speed envelope in conjunction with significant deck wear. Solution: Restrict use to people within the weight/speed specifications, and check deck wear. Replace if necessary.</li> <li>2 Motor lead disconnected or loose. Solution: Check the motor leads to ensure all leads are connected. One loose or disconnected lead will cause the overload.</li> <li>3 Electrical failure on the drive electronics. Solution: Replace the VSD.</li> <li>4 Motor blocked by obstruction. Solution: Remove the obstruction.</li> </ol>
E210	Replace the VSD.
E212	Verify that the 3 jumpers are attached correctly on the VSD board. If problem persists, replace VSD board.
E211	Replace the VSD or grade motor.

**VSD****Table 3–6A. LED Patterns for PC Boards P/N - 27920 & 27115.**

LED	On	Off
DS1	Only when belt is running	When belt is stopped
DS2	Overload	Normal
DS3	Power to the console	No power to the console
DS4	Normal	VSD problem

**Note:** If the VSD detects an error, DS1 and DS2 will blink.