

! WARNING: All maintenance activities shall be performed by qualified personnel. Failure to do so could result in serious injury.

For any service related concerns, call Cybex Customer Service at 888-462-9239 (for Cybex customers living within the USA). For customers living outside the USA, call 508-533-4300 or fax 508-533-5183.

NOTE: Read and understand each procedure thoroughly before servicing. Unless otherwise noted “right” and “left” denote user orientation for all procedures.

! CAUTION

Use only Cybex replacement parts when servicing. Failure to do so could result in personal injury.

Test Mode

To enter **Test Mode** press and hold down any key on the display while turning the power switch to the on (I) position. When all keys are released “PRO” and the software revision “rx.x” are shown on the display. To exit **Test Mode** press **Stop**.

Cybex will void warranty if non-Cybex replacement parts are used.

Stuck Key List

If Test Mode occurs without holding any keys, a key may be stuck closed or Error 7 may have occurred. You may need to replace the upper and/or lower display overlay. See Figure 1. If “KEY#” is displayed you can determine which key is stuck closed by referring to the number list below.

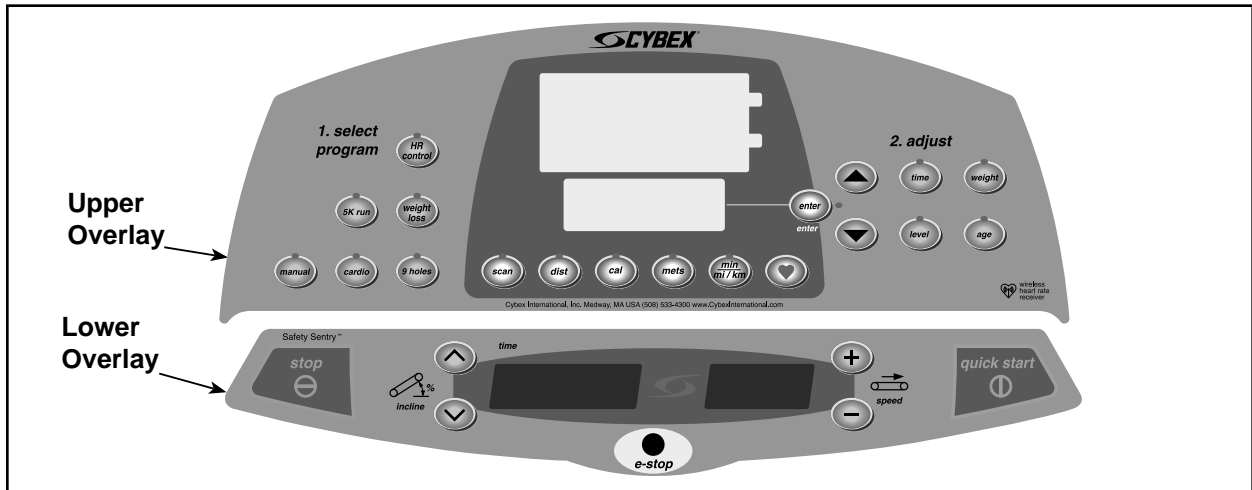


Figure 1

- | | | | | |
|----------------|----------------|--------------|----------------|----------------|
| 1 Stop | 7 Heart Rate | 12 Center Up | 17 Enter | 22 Time |
| 2 Incline Down | 8 Manual Up | 13 9 Holes | 18 Cardio | 23 Scan |
| 3 Speed Down | 9 Incline | 14 Level | 19 Center Down | 24 Age |
| 4 Weight | 10 Speed Up | 15 Mets | 20 Calories | 25 Min Mi/Km |
| 5 Distance | 11 Quick Start | 16 5K | 21 HR Control | 26 Weight Loss |

LED Functions

LEDs are used to indicate the status of many of the treadmill inputs. After entering *Test Mode* refer to the following list to check that these LEDs are functioning properly:

Heart LED – Blinks on with every signal from the contact heart rate receiver.

Weight LED – Blinks on when CSAFE data is being received.

Level LED – Blinks on when CSAFE data is being transmitted.

Lower Left Window – The numbers indicate actual elevation. A '-' sign indicates the treadmill is below 0% grade. The decimal point before the numbers shows the activation of the 0% switch in the elevation motor (on above 0%). If dashes are shown in the display, the treadmill is either above or below the 0% switch, requiring it to be manually run through the switch to begin indicating actual elevation. The right most decimal point indicates the status of the E-stop relay, on when the E-stop relay is on, off when it is deactivated. **NOTE:** *The right most decimal point may be difficult to see. Lean your head to the left to see this.*

Lower Right Window – The numbers indicate actual belt speed. The right most decimal point indicates the pulses from the speed sensor on the motor.

Key Functions

While in *Test Mode* press the following keys for desired information:

Quick Start – Starts the belt at 1.0 mph (1.0 kph). Also will run calibration if held for 3 seconds.

Heart Rate Program key – Lights all of the LEDs for a short period of time.

Weight Loss key – Lights only the columns.

9 Holes key – Lights only the rows.

Incline ↑ – Run elevation motor up.

Incline ↓ – Run elevation motor down.

Speed + – Increase drive motor speed.

Speed - – Decrease drive motor speed.

Distance – Press once for odometer information (DST) to appear in the speed window.

Press again for hourmeter information (HRS) to appear in the speed window.

Press three times for number of starts information (USES) to appear in the speed window.

Press four times for brush wear mileage up to 100 miles since activated or "0" if it has not been activated (BRSH).

Min Mi/Km – Displays and cycles through error log. Up to 10 errors can be stored.

Scan – Clears error log when pressed twice while in error log mode.

Mets – Value of motor load in A/D counts. The number range is relative to motor current and goes from 0-225. (LOAD).

Calories – Displays motor pulse width (PWM) value.

Enter – Required to save setup values.

Error Codes

Error codes notify you of a problem condition and are displayed on the center of the console. These codes can also help to indicate the part of the treadmill most likely to be causing the problem. Errors that present a hazard to the user provide a measure of safety by causing a one second beep, stopping the treadmill and locking out operation of the treadmill.

A log of errors can be viewed and cleared. Enter *Test Mode* and press the **Pace** (Min/km) key to display the log. The most recent error is always first in the log. Press the **Pace** key again to cycle to the next the error stored. Up to 10 errors can be stored. Press the **Scan** key twice to clear the error log. Press **Stop** to exit *Test Mode*.

NOTE: A processor upset can cause a bAd#. See H then G.

Error Description

bAd0	Bad checksum. See H then G.
bAd2	Internal RAM error. See H then G.
bAd3	Watchdog timeout. See H then G.
Err1	Belt didn't start (or no speed sense). See I, E, D, B then A.
Err2	Underspeed (2 mph for 2 seconds without correction in process). See I, E, C then B.
Err3	Speed sense lost. See I, E, A, B and C.
Err5	No 0 switch sense within timed limits. This is declared when the timed elevation reaches -2% without tripping the index. See F and A.
Err6	Overspeed (1 mph for 1 second or 2 mph for 0.2 seconds without correction). See I, E.
Err7	EEPROM error (memory lost, loads new defaults, enters <i>Test Mode</i>). See G.
Err9	Brush wear too low. Indicator has been activated for over 100 miles. See D.
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. See F.

Action

A	Check lower board
B	Check drive motor
C	Check belt and deck
D	Check motor brushes
E	Check speed sensor
F	Check elevation motor
G	Replace display board
H	Turn the treadmill to the off (O) position and back on (I)
I	Perform speed calibration procedure