

Calibration Guide

800 Series

Model: X6850HRT (VEP0074, VEP0078, EP70B)

USING PRO MANAGER ENGINEERING MODE SETTINGS

Pro Manager Engineering Mode is used to change technical specifications in the console and other electronic components. These features should only be used by service techs to avoid possible further complications.

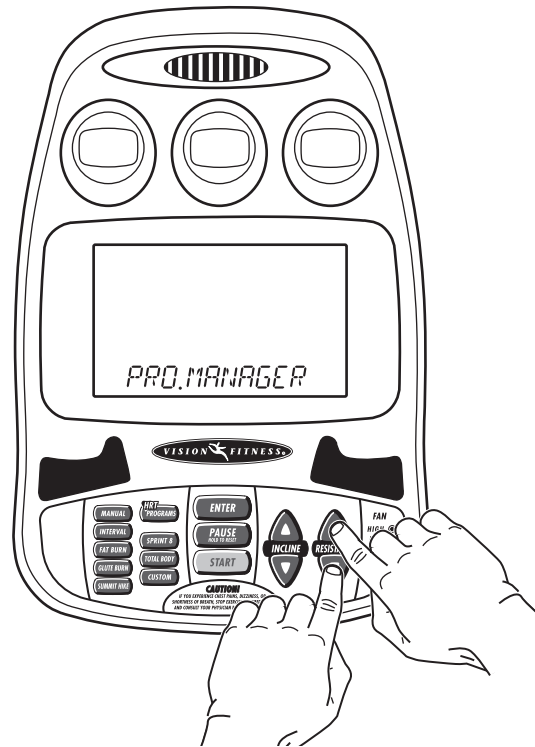
ENTERING PRO MANAGER ENGINEERING MODE

If your equipment does not have a power cord, you must power the elliptical by turning the pedals.

- To enter, press and hold the **"UP"** and **"DOWN"** arrow keys simultaneously for about four seconds until you see the message **"MANAGER"**. You are now in the 1st Engineering Mode. To Enter Pro Manager Engineering Mode, press and hold the **"UP"** and **"DOWN"** arrow keys simultaneously for about four seconds until you see the message **"PRO.MANAGER"**. You are now in the Pro Manager Engineering Mode.

The following settings can be changed or viewed in Product Engineering Mode:

- P1 Fan Low Speed** – This setting allows the adjustment of the fan low speed setting. (current version does not allow change)
- P2 Fan High Speed** – This setting allows the adjustment of the fan high speed setting. (current version does not allow change)
- P3, P4, P5, P6 Telemetric & Handgrip L.T.T/H.T.T** – These settings affect the heart rate signal filter. L.T.T changes the low threshold time, and H.T.T is the high threshold time. It is not recommended to make changes to these settings
- P7 Hand Grip Priority** – This allows the setting of which heart rate signal has higher priority. A setting of **"1"** makes the handgrip signal a higher priority. A **"0"** setting gives telemetric signal higher priority.
- P8 Max HR Formula** – You can change the setting of the formula used to calculate max heart rate.
Formula 1: Max HR= (220 – Age) Formula 2: Max HR= (205 – (Age/2))
- P9 Shutdown Time** – After the RPM of the bike reaches zero, this is the time before system will turn off the console display. (This setting is only available on products with a battery system)
- P10 Shutdown Voltage** – If battery voltage is working under the shutdown voltage, the system will automatically turn off the console display. (This setting is only available on products with a battery system)
- P11 Main LCD Contrast** – Use this setting to change the LCD contrast ratio on the main console display.
- P12 Readout LCD Contrast** – Use this setting to change the LCD contrast ratio on the console readout displays.
- P13 S.R.C System** – Use this setting to set the minimum RPM or Strides per Minute in which the products resistance will begin to function.



- **P14 Caution Level** – The caution level can be adjusted to four different levels. When an error occurs, the caution level determines what the machine does in response. See Caution Level Table.

CAUTION LEVEL TABLE

	ERROR CLASS	RECORD	DISPLAY	SYSTEM SHUTDOWN
LEVEL 1	CLASS A	•		
	CLASS B	•		
	CLASS C	•	•	•
LEVEL 2	CLASS A	•		
	CLASS B	•	•	
	CLASS C	•	•	•
LEVEL 3	CLASS A	•	•	
	CLASS B	•	•	
	CLASS C	•	•	•
LEVEL 4	CLASS A	•	•	
	CLASS B	•	•	•
	CLASS C	•	•	•

- **P15 Auto Homing** – This setting changes the incline level that the machine defaults to when power is turned on or is reset. A setting of zero disables this function. (This setting is only available on Incline Ellipticals)
- **P16 Homing Level** – This option allows the setting of the incline level for non-incline programs. The custom program default cannot be changed, and is always 10. (This setting is only available on Incline Ellipticals)
- **P17 Incline Calibration** – This setting allows the calibration of the incline stroke. (This setting is only available on Incline Ellipticals)
- **P18 Incline Adj.1** – Reserved for future models
- **P19 Incline Adj.2** – Reserved for future projects
- **P20 Dig. Ext. CMD** – (Reserved for special purpose)
- **P21 Load Default** – This setting allows the loading of default values in both Engineering mode layers.
- **P22 Error List** – Use this setting to view the last four system error records.
- **P23 Incline Workout Time** – This value is the accumulated workout time while inclined (in min). (This setting is only available on Incline Ellipticals)
- **P24 Incline Homing Time** – This value is the accumulated incline homing time (in min). (This setting is only available on Incline Ellipticals)
- **P25 Hardware Testing** – Use this mode to test the LCD displays and Keypads on the console. Press and hold **"PAUSE"** to exit this mode.
- **P26 Resistance Testing** – Use this mode to test the resistance system.

MODIFYING SETTINGS

- Press **"ENTER"** to select a specific setting.
- Use the **"UP"** and **"DOWN"** arrow keys to change the setting.
- Press **"ENTER"** to save the setting.

EXITING PRO MANAGER ENGINEERING MODE

- Press and hold the **"PAUSE"** key for approximately four seconds to exit **"PRO MANAGER"** mode.
- Press and hold the **"PAUSE"** key for approximately four seconds to exit **"MANAGER"** mode.