F-ST & F-T technical

pulse TECHNICAL USER MANUAL



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Introduction

Pulse Fitness Equipment is sophisticated heavy duty exercise machines, designed specifically for use in a Health & Fitness type environment. All machines are suitable for both aerobic/anaerobic exercise and general athletic fitness training or weight-loss programs.

Features

- 1 User-friendly multi-language program control panel.
- 2 Large TFT Colour graphic display screen.
- 3 Six operating modes.
- 4 Microprocessor-controlled electronics for reliability and accuracy of data.
- 5 Ergonomically-designed user position.
- 6 Low maintenance requirements.
- 7 Hand-Pulse sensors as standard, with a Heart Rate receiver integrated into the console. A transmitter belt can be supplied as an optional extra.
- 8 Data can be displayed in either imperial or metric units.

Technical Data					
	Power Requirements	Dimensions (LxHxW) (cm) (inches)	Weight (Kg) (Ibs)	Operational Environment	Displays
220F-ST 'Pace' Stepper	Self Powered	101cmx175cm x70cm (39.8"x68.9"x 25.2")	78Kg (171.6lbs)	Temperature: -10deg to +40deg. Humidity: Up to 95% relative humidity, non- condensing	A/V Display: 185mm TFT
240F-ST 'Pursuit' Upright Cycle	Self Powered	101cmx146cm x70cm (39.8"x57.5"x 25.2")	62Kg (136.4lbs)	Temperature: -10deg to +40deg. Humidity: Up to 95% relative humidity, non- condensing	A/V Display: 185mm TFT
250F-ST 'Perform' Recumbent Cycle	Self Powered	145cmx125cm x70cm (57.1"x49.2"x 25.2")	92Kg (202.4lbs)	Temperature: -10deg to +40deg. Humidity: Up to 95% relative humidity, non- condensing	A/V Display: 185mm TFT
260F-ST 'Ascent' low Impact Treadmill	UK/Euro - 220-240V AC, 50/60Hz, 8A, 1.5kW (3HP) AC Motor. US - 120V AC@60Hz 1500W 20A (Dedicated outlet)	227cmx145cm x82cm (89.4"x57"x 32.3")	260Kg (572lbs)	Temperature: -10deg to +40deg. Humidity: Up to 95% relative humidity, non- condensing	A/V Display: 185mm TFT
280F-ST 'Extreme' Elliptical Trainer	Self Powered	230cmx160cm x90cm (90.6"x63"x 35.4")	170Kg (374lbs)	Temperature: -10deg to +40deg. Humidity: Up to 95% relative humidity, non- condensing	A/V Display: 185mm TFT

Installation

Pulse Fitness Machine Package

Before commencing installation, check that all parts and accessories have been supplied. The complete package should include the following:

1 - Pulse Fitness Machine

 2 - Integral mains cable with moulded plug fitted. (F-T Models) UK - 13A Euro - Schuko CEE7 USA - 5-15p 15A

- 3 Technical manual (This document)
- 4 Assembly user manual
- 5 Console user manual
- Contact your supplier immediately if any of these components are missing.

Location

Select a suitable location for your fitness equipment before moving it. The site you choose should meet the following requirements:

- ! A flat, level and clean surface.
- ! Close to a suitable mains socket. (F-T Models)
- Well away from sources of water (or other liquids) or in an area that is subject to Condensation.
- ! Away from direct sunlight (this can make it difficult to view the TFT screen).

NOTE: Your Pulse Fitness equipment is not suitable for outdoor use. Once the location has been chosen, your Pulse fitness equipment can be Situated in the desired location. If the chosen surface is carpet then your equipment can be pushed to the desired position. ▲ CAUTION ▲

This equipment is heavy! We do not recommended attempting to lift it without assistance, at least 4 people should lift any Pulse Fitness equipment when neccesary. NEVER attempt to lift any of the equipment by the control panel or the plastic rear panels.

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Installation Procedure

F-ST Range Feet Adjustment

260 F-T Treadmill Feet Adjustment

Once your Pulse Fitness equipment has been sited you must ensure that it is stable. If necessary, adjust the height of the feet to compensate for any unevenness in the floor. Turn the feet to the left or right to increase or decrease the height as appropriate. (See diagram) When satisfied, securely fasten the locknut up against the Feet Strut and place the Rubber Anti-Slip Pads underneath the feet.

To protect the paintwork from sweat, wipe down the metal frame with a wax/siliconebased polish.

🗥 WARNING 🔬

When installing or adjusting any piece of Pulse Fitness equipment, DO NOT leave any adjustment devices projecting which could cause injury to any third party.



The Treadmill is delivered with a mains cable which has a moulded plug already fitted. Plug the Treadmill into a suitable mains socket and then switch on the power. Switch on the Treadmill via the on/off (I/0) switch mounted at the front of the machine. (See diagram) The control panel display should illuminate. This indicates that the Treadmill is now ready for use.



Ensure that the mains cable is routed in such a way that it does not create a potential hazard to users of the Treadmill or other persons in the vicinity.

Belt alignment should now be checked before use. (See diagram on next page)

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Belt Alignment

Installation Procedure 260 F-T

Belt Tension / Alignment

Once the belt is aligned the overall tension of the belt can be checked to make sure that it does not slip on the rollers, this is done as follows; Firstly, run the machine at 5 kph/3 mph as described above, and whilst you are walking on the machine hold onto the side rails and try to stop the belt from moving using reasonable force (Take great care when doing this procedure). If the belt is not effected, then no adjustment is required. However if the belt slips then use the Allen key to adjust both tension bolts (see diagram), increase the tension of the bolts equally by turning them no more than half a turn at a time. Re-check the tension of the belt after each turn until the belt won't slip, (take care not to over tighten the belt as it may stretch). Once the tension is correct, check the alignment of the belt again. To check the belt alignment, firstly switch the machine on and press START, then select QuickSTART and enter 10 min. Run the machine at 5 kph/3 mph and with the Allen key adjust the left hand tension bolt (as shown in diagram) turn the bolt 1/4 turn at a time to increase or decrease the belt tension. The belt will move either left or right and once correctly set should run centrally in the walk way.

NOTE: Take care not to touch the belt during this procedure

Tools Required - 1 x Allen Key Allen Key.





Smart Card

Your Console can be updated using the Smart Card slot. The Smart Card slot can be found at the bottom of the Console. (See diagram).

The Smart Card will incorporate the new Performance Tracker, Personal Trainer and Gym Manager Software.

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Maintenance

\land WARNING 🖄

This equipment contains hazardous voltages and controls hazardous rotating mechanical parts. Switch off and disconnect the machine from the mains supply before carrying out any maintenance procedures. (F-T Models only, powered) NEVER switch on any of the machines while the side panels are removed. (F-T Models only, powered) ALWAYS replace faulty/damaged parts with new genuine Pulse Fitness parts and never use the Pulse equipment until the machine has been fully repaired.

Routine Maintenance - Daily

Wipe down the equipment's side panels, foot mouldings, console and hand grips everyday using a mild soap solution on a damp cloth. Wipe Dry with a soft cloth. In addition to this, spray the metal frame (but not the control panel) with a proprietary silicone-based polish and wipe off with a dry soft cloth.

NOTE: Do not clean the frame with water-based solutions.

Routine Maintenance - Weekly

Thoroughly clean the entire machine using the same cleaning methods as for the Daily Clean. Inspect the frame for rust, bubbling or paint chips. **NOTE:** This check is important as perspiration will corrode damaged or unpainted surfaces very quickly. Therefore this maintenance check will help to maintain the clean and professional appearance of your machines. Do not clean the frame with water-based solutions.

Routine Maintenance - Quarterly

Because of the amount of pressure which is exerted onto the trainers through heavy exercising, it is possible (although unlikely) for fasteners to become loose. Therefore it is necessary to do a visual or tool check with the necessary spanners or allen keys that all following nuts and bolts are Tight; Foot mouldings/Pedal Nuts & Bolts, Handlebar Bolts, Console Bolts, Condition of Handlebars.



Regularly check the machine for damage, wear, general smooth and safe operation. DO NOT use the machine if any part appears worn, damaged or faulty.

Corrective Maintenance



The PCB contains components that are sensitive to static charges. Do not touch any of the components on the PCB or the PCB itself when removing or refitting the connectors.

Corrective maintenance is limited to replacing the console. To do this, proceed as follows:

- 1 Read through all the following instructions before commencing work.
- 2 Ensure that the equipment is switched off and unplugged (F-T Models only, powered).
- 3 Remove the four screws that secure the control panel to the bottom panel. (As shown in Assembly Manual).
- 4 Hold the consoll in a vertical position (take care not to strain the cables, as shown in Assembly Manual) and unplug the connectors from the printed circuit board (PCB). Lift the control panel away and store in a safe place.
- 5 Attach the connectors to the new console as shown in Assembly Manual.
- 6 Place the console onto the support post, taking care not to trap any of the cables and then press firmly into position.
- 7 Refit the screws at back of console and tighten them securely.
- 8 Switch on the power and check that the new console operates correctly.





Troubleshooting

220F-ST 'Pace' Stepper

Fault	Probable Cause	Cure	
Control display remains blank	Blown fuse in machine. Control panel failed. Replace fuse		
Display screen is not clear, flickers or areas appear faint	Poor contrast adjustment	Adjust contrast. (Refer to console user manual)	
Heart rate monitor not working	Monitor strip not fitted correctly. Failed battery	Adjust position of strip and/or moisten electrodes. (Refer to console user manual). Replace monitor strip.	

240/250F-ST 'Pursuit' Upright Cycle/'Perform' Recumbent Cycle

Fault	Probable Cause	Cure
Control display remains blank	Blown fuse in machine. Control panel failed.	Replace fuse.
Display screen is not clear, flickers or areas appear faint	Poor contrast adjustment	Adjust contrast. (Refer to console user manual)
Heart rate monitor not working	Monitor strip not fitted correctly. Failed battery	Adjust position of strip and/or moisten electrodes. (Refer to console user manual). Replace monitor strip.
Pedal 'knocking' or uneven operation when pedaling	Loose crank bolt	Remove plastic cap from centre of pedal crank and tighten bolt.



Troubleshooting

260FT 'Ascent' Low Impact Treadmill			
Fault	Probable Cause	Cure	
Control display remains blank	Blown fuse in machine. Control panel failed.	Replace fuse.	
Display screen is not clear, flickers or areas appear faint	Poor contrast adjustment	Adjust contrast. (Refer to console user manual)	
Heart rate monitor not working	Monitor strip not fitted correctly. Failed battery	Adjust position of strip and/or moisten electrodes. (Refer to console user manual). Replace monitor strip.	
Running belt does not run centrally on machine, or slips	Wrong tension on belt. Machine not level.	Adjust tension of belt or adjust feet to level machine. (Refer to technical manual)	
Elevation does not function correctly. Elevation locks and does not move.	Actuator not calibrated. 3.15 Amp fuse blown.	Contact engineer. Replace 3.15 Amp fuse in P.S.U	
Belt does not run	Emergency stop button activated.	Release emergency stop button on right hand handle bar.	

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Troubleshooting

280F-ST 'Extreme' Elliptical Trainer

Fault	Probable Cause	Cure
Control display remains blank Blown fuse in machine. Control panel failed. Replace fuse		Replace fuse.
Display screen is not clear, flickers or areas appear faint	Poor contrast adjustment	Adjust contrast. (Refer to console user manual)
Heart rate monitor not working	Monitor strip not fitted correctly. Failed battery	Adjust position of strip and/or moisten electrodes. (Refer to console user manual). Replace monitor strip.

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Declaration of Conformity				
	EC Declaration of	Conformity Standards Route	e to Compliance	,
	Directive	Test Name	Standard	Year
	Low Voltage Directive 73/23/EEC	Safety requirements for mains operated electronic and related apparatus for household and similar use	EN60065	1998
	EMC Directive 89/336/EEC	Generic Emissions	EN50081-1	1994
	00,000,220	Generic Immunity	EN50082-1	1998
	Low Voltage Directive 73/23/EEC	Specification for safety of household and similar electrical appliances	EN60335-1	1995

and therefore is in conformity with the production requirements of council directives 73/23/EEC and 89/336/EEC on the approximation of laws of the member states relating to Electrical Safety and Electromagnetic compatibility.



Declaration of Conformity

220F-ST 'Pace' Stepper

Conforms also to EN 957 Part 8 for Class S, tested by TUV product services.

240/250F-ST 'Pursuit' Upright Cycle/'Perform' Recumbent Cycle

Conforms also to EN 957 Part 5 for Class SA, tested by TUV product services.

260F-T 'Ascent' Low Impact Treadmill

Conforms also to EN 957 Parts 1 & 6 for Class SA, tested by TUV product services.

280F-ST 'Extreme' Elliptical Trainer

Conforms also to EN 957 Parts 5 & 9 for Class S, tested by TUV product services.

Service His	tory		
Date	Machine	Description of fault Maintenance carried out	Sign

Service His	story		
Date	Machine	Description of fault Maintenance carried out	Sign

User Notes



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Pulse Fitness The Bromley Centre, Bromley Road, Congleton, Cheshire, CW12 1PT. Tel: +44(0)1260 294600 Fax: +44(0)1260 299282 Email: service@pulsefitness.com

D

Pulse Fitness GmbH Rombacher Hütte 10 D - 44795 Bochum, Germany Phone.: +49 (0)234-43623 Fax: +49 (0)234-9431330 Email: info@pulsefitness.de

S

Pulse Fitness Scandinavia AB Box 70, 25054 Helsingborg, Sweden Tel: +46 (0) 42 164075 Fax: +46 (0) 42 164076

