

# ***95Li Summit Trainer***

OPERATION MANUAL



***LifeFitness***

## **CORPORATE HEADQUARTERS**

5100 River Road  
Schiller Park, Illinois 60176 • U.S.A.  
847.288.3300 • FAX: 847.288.3703  
800.735.3867 (Toll-free within U.S.A., Canada)

## **INTERNATIONAL OFFICES**

### **LIFE FITNESS ASIA PACIFIC LTD**

Room 2610, Miramar Tower  
132 Nathan Road  
Tsimshatsui, Kowloon  
HONG KONG  
Telephone: (+852) 2891.6677  
FAX: (+852) 2575.6001

### **LIFE FITNESS ATLANTIC BV**

#### **LIFE FITNESS BENELUX**

Bijdorpplein 25-31  
2992 LB Barendrecht  
THE NETHERLANDS  
Telephone: (+31) 180.646.666  
FAX: (+31) 180.646.699

### **LIFE FITNESS BENELUX NV**

Parc Industriel de Petit-Rechain  
4800 Verviers  
BELGIUM  
Telephone: (+32) 87.300.942  
FAX: (+32) 87.300.943

### **LIFE FITNESS DO BRAZIL**

Av. Dr. Dib Sauaia Neto 1478  
Alphaville, Barueri, SP  
06465-140  
BRAZIL  
Telephone (+55) 11.4193.8282  
FAX: (+55) 11.4193.8283

### **LIFE FITNESS AUSTRIA**

Vertriebs GmbH  
Hinschiggasse 1  
1100 Vienna  
AUSTRIA  
Telephone: (+43) 1.61 57 198  
FAX: (+43) 1.61 57 198.20

### **LIFE FITNESS IBERIA**

Pol. Ind. Molí dels Frares. c/C, nº 12  
08620 Sant Vicenç dels Horts (Barcelona)  
España  
Telephone: (+34) 93.672.4660  
FAX: (+34) 93.672.4670

### **LIFE FITNESS EUROPE GMBH**

Siemensstrasse 3  
85716 Unterschleissheim  
GERMANY  
Telephone: (+49) 89.31 77 51.0  
FAX: (+49) 89.31 77 51.99

### **LIFE FITNESS ITALIA S.R.L.**

Via San Pieretto  
37010 AFFI (Verona)  
ITALY  
Telephone: (+39) 045.7238204  
FAX: (+39) 045.7238197

### **LIFE FITNESS LATIN AMERICA and CARIBBEAN**

10601 West Belmont Avenue  
Franklin Park, Illinois 60131  
U.S.A.  
Telephone: (+1) 847.288.3300  
FAX: (+1) 847.288.3762

### **LIFE FITNESS UK LTD**

Queen Adelaide  
Ely, Cambs CB7 4UB  
UNITED KINGDOM  
Telephone: (+44) 1.353.666 017  
FAX: (+44) 1.353.666 018

### **LIFE FITNESS JAPAN**

Nippon Brunswick Bldg., #8F  
5-27-7 Sendagaya  
Shibuya-Ku, Tokyo  
Japan 151-0051  
Telephone: (+81) 3.3359.4309  
FAX: (+81) 3.3359.4307



Before using this product, it is essential that this ENTIRE operation manual and ALL installation instructions be read.

This will help in setting up the equipment quickly and in instructing others on how to use it correctly and safely.

Avant toute utilisation de ce produit, il est indispensable de lire ce manuel d'utilisation dans son INTÉGRALITÉ, ainsi que TOUTES les instructions d'installations.

Ce manuel explique comment installer l'équipement et comment l'utiliser correctement et sans danger.

#### FCC Warning - Possible Radio / Television Interference

**NOTE:** *This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the operation manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.*

Class S (Studio): Professional and / or commercial use.



**CAUTION:** Any changes or modifications to this equipment could void the product warranty.



**MISE EN GARDE :** Tout changement et toute modification de ce matériel peut annuler la garantie du produit.

Any service, other than cleaning or user maintenance, must be performed by an authorized service representative. There are no user serviceable parts.

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This Operation Manual describes the functions of the following product:

Life Fitness Summit Trainer

**95Li**

See "Specifications" page in this manual for product specific features.

Statement of Purpose: The Life Fitness Summit Trainer is an exercise machine that combines low-impact pedaling with push/pull arm motion to provide an efficient, effective total body workout.



**CAUTION: Health-related injuries may result from incorrect or excessive use of exercise equipment. Life Fitness STRONGLY recommends seeing a physician for a complete medical exam before undertaking an exercise program, particularly if the user has a family history of high blood pressure or heart disease, or is over the age of 45, or smokes, has high cholesterol, is obese, or has not exercised regularly in the past year.**

If, at any time while exercising, the user experiences faintness, dizziness, pain, or shortness of breath, he or she must stop immediately.



**MISE EN GARDE: Des problèmes de santé peuvent être causés par une utilisation incorrecte ou excessive de l'équipement. Life Fitness conseille VIVEMENT de consulter un médecin pour subir un examen médical complet avant de commencer tout programme d'exercice, et tout particulièrement si l'utilisateur a des antécédents familiaux d'hypertension ou de troubles cardiaques, ou s'il a plus de 45 ans, s'il fume, s'il a du cholestérol, s'il est obèse ou n'a pas fait d'exercice régulièrement depuis un an.**

Si, pendant l'utilisation de l'appareil, l'utilisateur ressent un malaise, des vertiges, des douleurs ou des difficultés à respirer, il doit cesser immédiatement.

# 1 GETTING STARTED

## 1.1 IMPORTANT SAFETY INSTRUCTIONS



**SAFETY WARNING:** The safety of the product can be maintained only if it is examined regularly for damage and wear. See Preventive Maintenance section for details.

- If this Life Fitness product does not function properly after it has been dropped, damaged, or even partially immersed in water, contact Life Fitness Customer Support Services for assistance.
- Always follow the console instructions for proper operation.
- Close supervision is necessary when used by children, invalids or disabled persons.
- Do not use this product outdoors, near swimming pools or in areas of high humidity.
- Never operate a Life Fitness product with the air openings blocked. Keep air openings free of lint, hair or any obstructing material.
- Never insert objects into any opening in this product. If an object should drop inside, carefully retrieve it. If the item cannot be reached, contact Life Fitness Customer Support Services.
- Never place liquids of any type directly on the unit, except in the accessory tray water bottle holder. Containers with lids are recommended.
- Wear shoes with rubber or high-traction soles. Do not use shoes with heels, leather soles, cleats or spikes. Make sure no stones are embedded in the soles.
- Keep all loose clothing, shoelaces and towels away from moving parts.
- Do not use this product in bare feet.
- Do not tip the unit on its side during operation.
- Keep the area around the Life Fitness product clear of any obstructions, including walls and furniture. Ensure that there is at least one foot of clearance in front of the Life Fitness Summit Trainer.
- Use caution when mounting or dismounting the Life Fitness Summit Trainer. Use the stationary handrails whenever additional stability is required. While exercising, hold onto the moving arms, the bull horns or the stationary handrails.
- Never use the Life Fitness Summit Trainer while facing backward.
- Do not stand or sit on product shroud.

**SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE.**

# 1 POINT DE DÉPART

## 1.1 CONSIGNES DE SÉCURITÉ IMPORTANTES



**CONSIGNE DE SÉCURITÉ : pour un emploi sûr, le produit doit être inspecté régulièrement afin de s'assurer qu'il n'est pas usé ni endommagé. Consultez la section de Maintenance préventive pour obtenir de plus amples informations.**

- Si l'appareil Life Fitness ne fonctionne pas correctement après avoir subi une chute, des dommages ou une immersion même partielle dans l'eau, contactez le service d'assistance clientèle de Life Fitness.
- Pour un fonctionnement correct, suivez toujours les instructions de la console.
- Une surveillance étroite est nécessaire en cas d'utilisation par des enfants, des personnes invalides ou handicapées.
- N'utilisez pas ce produit à l'extérieur, près d'une piscine ou dans endroits très humides.
- Ne faites jamais fonctionner de produit Life Fitness dont les bouches d'aération seraient bloquées. Maintenez-les exemptes de peluches, de cheveux ou de toute obstruction.
- N'insérez jamais d'objet dans les ouvertures de cet appareil. Si un objet tombe dedans, coupez l'alimentation électrique, débranchez le cordon de la prise et récupérez-le avec précaution. Si vous ne pouvez pas l'atteindre, consultez le service après-vente de Life Fitness.
- Ne placez jamais de liquides d'aucune sorte directement sur l'appareil, sauf si vous disposez d'un support ou d'un plateau pour accessoires. Il est recommandé d'utiliser des conteneurs munis d'un couvercle.
- Portez des chaussures avec semelles en caoutchouc ou antidérapantes. N'utilisez pas de chaussures à talons, de semelles en cuir ou à crampons. Assurez-vous qu'aucun caillou ne s'est incrusté dans les semelles.
- Maintenez les vêtements lâches, les lacets et les serviettes à l'écart des pièces en mouvement.
- N'utilisez pas cet appareil sans chaussures.
- Ne faites pas basculer l'appareil sur le côté tandis qu'il fonctionne.
- Maintenez la zone autour du produit Life Fitness exempte d'obstructions, y compris de murs et de meubles. Veillez à laisser au moins 30 cm d'espace autour du Life Fitness Summit Trainer.
- Procédez avec précaution lors du montage ou du démontage de la machine. Utilisez la barre fixe pour renforcer votre stabilité. Pendant les exercices, saisissez les bras mobiles.
- N'utilisez jamais cet appareil en vous tournant vers l'arrière.

**CONSERVEZ CES INSTRUCTIONS POUR USAGE ULTÉRIEUR.**

## 1.2 SETUP

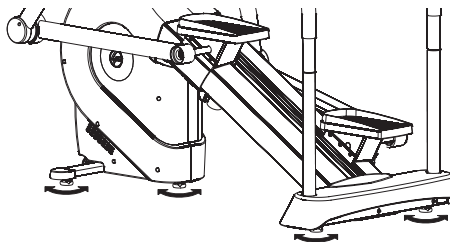
Read the Operation Manual before setting up the Life Fitness Summit Trainer.

### WHERE TO PLACE THE LIFE FITNESS® SUMMIT TRAINER

Following all safety instructions in Section 1.1, move the Life Fitness Summit Trainer to the location in which it will be used. See Section 7, titled *Specifications*, for the dimensions of the footprint. Allow one foot of clearance in front of the Life Fitness Summit Trainer to allow for movement of the total-body arms.

### HOW TO STABILIZE THE LIFE FITNESS SUMMIT TRAINER

After placing the Life Fitness Summit-Trainer in position, check the unit for stability by attempting to rock the unit. Any slight rocking indicates that the unit must be leveled. There are a total of (5) feet on the Summit Trainer for stability. The (2) rear feet under the rear step should require no adjustment. The (1) middle leveler should be adjusted last and is only for support, not leveling. Check the (2) front levelers to determine which foot does not rest fully on the floor. Rotate the foot counter-clockwise to lower it. Recheck the stability and adjust again as needed until the unit is stable and no longer rocks. Lower the middle leveler until it contacts the floor. Lock the adjustment nut on both the (2) front and middle levelers by tightening the jam nut with a 17 mm wrench.



### CHECK FOR POWER

The console is powered by a rechargeable 6-volt battery. Check the battery by pressing the START key. The console should light up, and the MESSAGE CENTER should display a prompt to set up a workout. If this does not occur, mount the Life Fitness Summit Trainer and begin pedaling. The console should then light up, making it possible to program a workout. Pedal for 10 to 20 minutes at 0.5 mph (0.8 km/h) or faster during a workout to charge the battery. Afterwards, the pedal action during workouts keeps the battery charged. If the console still does not light, contact Life Fitness Customer Service. See section 6.5, titled *How to Obtain Product Service*, for more information.

### FITNESS AND ENTERTAINMENT NETWORKING

Two interchangeable network ports allow the Life Fitness Summit Trainer to be connected to a fitness entertainment system and/or a network, such as FitLinxx™ interactive fitness network.

- **Fitness network:** The network connection enables the console to upload user workout statistics to a fitness network database or to download remotely stored information, such a pre-set workout program. See Section 4.2, titled *Using the Workouts*, for information on logging onto a network.
- **Entertainment:** The network connection enables the console to power a third-party receiver for use with a service such as the Cardio Theater® entertainment system or the BroadcastVision™ entertainment system.

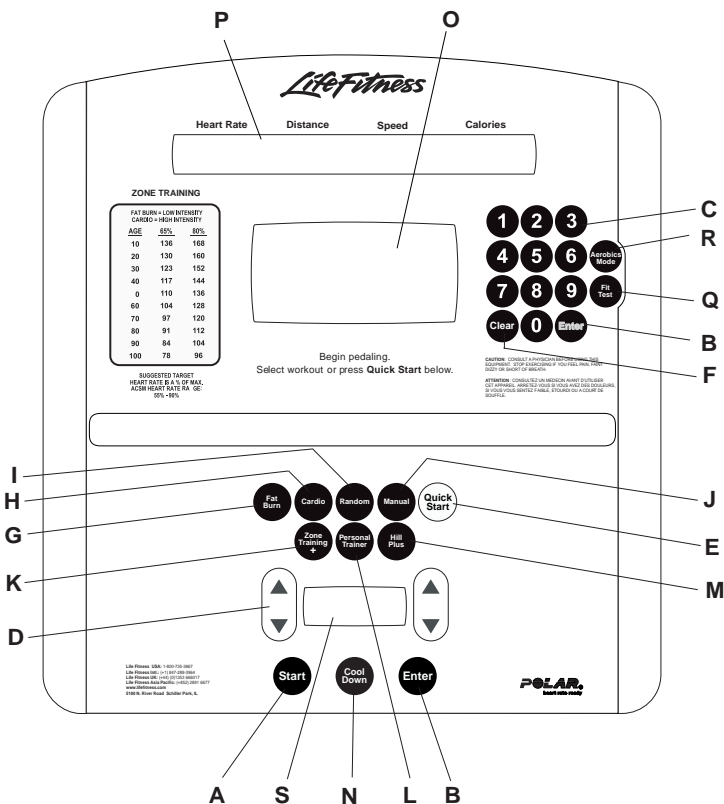
These ports are located on the back of the console and are enclosed by a removable cover. Any use of the ports for other than their intended purpose could void the product warranty.



# 2 THE DISPLAY CONSOLE

## 2.1 DISPLAY CONSOLE OVERVIEW

The computerized display console allows the user to tailor a workout to personal fitness abilities and goals and to monitor progress. With this easy-to-use console, the user can track fitness improvement from one workout to the next.



## 2.2 DISPLAY CONSOLE DESCRIPTIONS

This section lists and describes the functions for the keys and display windows on the console. See Section 4, titled *The Workouts*, for detailed information on using the console to set up workouts.

- A START:** Press this key to activate the console for programming a new workout. The activated console lights up and displays “SELECT WORKOUT OR PRESS QUICK START”. If no key is pressed for 15 seconds and the user stops pedaling, the console shuts down again.

**NOTE:** *The Life Fitness Summit Trainer’s AutoStart feature also activates the console when the user steps on the pedals and begins pedaling.*

- B ENTER:** Press this key after entering each value, such as weight or workout time, when prompted by console display messages.

- C** **NUMERIC keypad:** Use these keys to enter values, such as length of workout, weight, age, target heart rate\*, and intensity level. While a workout is in progress, numeric keys can be used to set new intensity levels or change the target heart rate\* in the **FAT BURN**, **CARDIO**, **HEART RATE HILL**, **HEART RATE INTERVAL**, and **EXTREME HEART RATE** workouts. The **ARROW** keys have a similar function, except that they change workout parameters by single increments.
- D** **ARROW keys:** A pair of **UP** and **DOWN** arrows is located on either side of the **TIME/LEVEL** window. When setting up a workout, use either set of arrows to change workout parameters displayed on the console, such as length of workout, weight, age, target heart rate\*, and intensity level. During a workout, pressing the **ARROWS** on the right (**LEVEL**) side of display changes the target heart rate for **FAT BURN**, **CARDIO**, **HEART RATE HILL**, **HEART RATE INTERVAL**, and **EXTREME HEART RATE** workouts or the intensity level for other workouts.

Pressing the **ARROWS** on the left (**TIME**) side increases or decreases the workout duration. Pressing the arrows on the right (**LEVEL**) side increases or decreases the intensity level.

**NOTE:** *Whenever an arrow key is pressed during a workout, an increase (up arrow key) or decrease (down arrow key) is made to the corresponding parameter (level). The number that appears reflects that change. For example, if the user is at level 6 and presses the right up arrow key, the number 7 will appear, reflecting that the user has chosen a new level. If the change is desired, press Enter to accept. If the change is not desired, the user has ten seconds to reset the level to the desired parameter, before the unit accepts the changed value and makes the appropriate adjustments.*

- E** **QUICK START:** Press this key to begin a manual workout immediately, without having to select a workout program. Once the workout is in progress, use the **ARROW KEYS** or the **NUMERIC KEYPAD** to change the intensity level or workout duration as desired.
- F** **CLEAR:** When programming a workout, press this key to clear incorrect data, such as weight or age, before pressing the **ENTER** key. Pressing **CLEAR** during a workout stops it immediately, at which point the **MESSAGE CENTER** displays a summary of the workout, including total time elapsed, total distance traveled, and total calories burned. Pressing **CLEAR** a second time causes the **MESSAGE CENTER** to prompt the user for a new workout setup.
- G** **FAT BURN:** Press this key to select the **FAT BURN** program, which is a low-intensity workout for burning fat.
- H** **CARDIO:** Press this key to select the **CARDIO** program, which is a higher intensity workout for more fit users, emphasizing cardiovascular benefits and maximum fat burning.
- I** **RANDOM:** Press this key to select the Random program, which is a workout of constantly changing intensity levels that occur in no regular pattern or progression.
- J** **MANUAL:** Press this key to select the Manual program, in which the intensity level remains the same unless it is manually changed.
- K** **ZONE TRAINING+:** Press this key to select one of the workouts that target specific ranges, or zones, for maintaining a heart rate to achieve maximum exercise results. The following options may be accessed with this key:

- **HEART RATE HILL**
- **HEART RATE INTERVAL**
- **EXTREME HEART RATE**
- **TIME IN ZONE GOAL**
- **FAT BURN** (also accessible with **FAT BURN** key)
- **CARDIO** (also accessible with **CARDIO** key)

\* Target Heart Rate (THR) is a percentage of the theoretical maximum. For example, a 40-year-old user's THR for the **CARDIO** workout is 144. This workout targets 80 percent of the maximum, so the equation would be  $(220-40) \cdot .80 = 144$ .

- L PERSONAL TRAINER:** Press this key for additional workout options, including customized workouts designed by a fitness club trainer or staff member. See Section 5, titled *Internal Settings* for information on designing custom workouts. The following workouts and goals may be accessed with this key:
- **CROSS-TRAIN AEROBICS**
  - **PERSONAL TRAINER (1-6)**
  - **CALORIES GOAL**
  - **FIT TEST**
  - **DISTANCE GOAL**
- M HILL PLUS:** Press this key to select **HILL PLUS** workouts, in which intensity levels increase and decrease in set patterns. The following workouts may be accessed with this key:
- **HILL**
  - **AROUND THE WORLD**
  - **KILIMANJARO**
  - **INTERVAL**
  - **CASCADES**
  - **SPEED TRAINING**
  - **FOOTHILLS**
- N COOLDOWN:** Workout programs end automatically in a Cooldown mode, which lowers the intensity level. Press the COOLDOWN key at any desired point during a workout to go immediately into Cooldown mode. In this phase of a workout the body begins to remove lactic acid and other accumulated by-products of exercise, which build up in muscles during a workout and contribute to muscle soreness. The console automatically adjusts each workout's Cooldown level according to the individual user's performance.
- O WORKOUT PROFILE window:** This window displays shapes, made of columns of lights, that represent the levels of intensity in a workout-in-progress. The height of the first column on the left side of the window is proportional to the current level of intensity.
- During a **FAT BURN, CARDIO, HEART RATE HILL, HEART RATE INTERVAL, or EXTREME HEART RATE** workout, which requires the use of a Polar® heart rate chest strap or the Lifepulse system sensors, the WORKOUT PROFILE window displays a flashing heart shape to request the user's heart rate signal. If the console does not detect a signal, the MESSAGE CENTER displays the prompt "NEED HEART RATE - PLACE HANDS ON SENSORS OR USE TELEMETRY STRAP". If the console does not receive the signal within three minutes, the workout automatically is converted to a **MANUAL** program.
- P MESSAGE CENTER:** This window displays step-by-step instructions for setting up a workout. During a workout, it displays statistics about the progress of the workout:
- **Heart Rate:** the detected heart rate if the user is wearing the chest strap or grasping the Lifepulse system sensors.
  - **Distance:** the total distance traveled in miles (or kilometers if enabled).
  - **Speed:** the pedaling speed or rate in miles per hour (or kilometers per hour if enabled).
  - **Calories:** the number of calories burned since beginning the workout.

If programmed to do so, the MESSAGE CENTER displays any or all of these three values each time the intensity level changes during the workout:

- **Calories per Hour:** the rate of calories burned per hour.
- **Watts:** effort level in Watts. The Watt is a unit of power output or the expression of the mechanical rate of work.
- **METs:** effort level in METs. The MET is an expression of the rate of work for the human body at rest, or a metabolic equivalent; one MET is approximately equal to the metabolism of a person at rest.

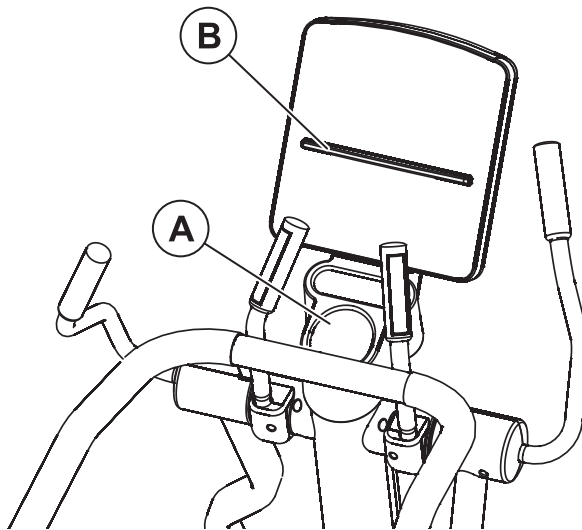
See Chapter 5, titled *Internal Settings* for information about enabling the MESSAGE CENTER to display these additional settings.

- Q** FIT TEST: Press this key to select the Fit Test, which measures cardiovascular fitness compared to other people of the same age and gender.
- R** AEROBICS MODE: Press this key to activate a workout mode in which the MESSAGE CENTER displays prompts that vary the workload and emphasize different muscle groups during the workout. It can be used with any workout, except for **Fat Burn**, **Cardio**, **Heart Rate Hill**, **Heart Rate Interval** or **Extreme Heart Rate**.
- S** LEVEL/TIME WINDOW: This window displays the programmed intensity level and the time elapsed since the start of the program.

For more information about Aerobics Mode, see the topic *Selecting a Workout Mode* in Section 4.2, titled, the *Using the Workouts*.

## 2.3 THE ACCESSORY TRAY / READING RACK

The accessory tray (A), which is mounted near the base of the console, provides storage for items such as water bottles, personal stereos, and cell phones. Additionally, an integrated reading rack (B) for supporting a book or magazine is located at the base of the upper panel of the console.



# 3 HEART RATE ZONE TRAINING EXERCISE

## 3.1 WHY HEART RATE ZONE TRAINING EXERCISE?

Research shows that maintaining a specific heart rate while exercising is the optimal way to monitor the intensity of a workout and to achieve maximum results. That is the idea behind the Life Fitness heart rate zone training approach to exercise.

Zone training identifies an exerciser's ideal heart rate range, or zone, for burning fat or increasing cardiovascular fitness. The values within the zone depend on the workout.

**NOTE:** Consulting a fitness trainer is recommended for defining specific fitness goals and designing a workout program.

ZONE TRAINING		
FAT BURN = LOW INTENSITY		
CARDIO = HIGH INTENSITY		
AGE	65%	80%
10	136	168
20	130	160
30	123	152
40	117	144
50	110	136
60	104	128
70	97	120
80	91	112
90	84	104
100	78	96
SUGGESTED TARGET		
HEART RATE AS % OF MAX		
ACSM HEART RATE RANGE:		
55% - 90%		

The Life Fitness Summit Trainer features exclusive workouts designed to take full advantage of the benefits of heart rate zone training exercise: **FAT BURN**, **CARDIO**, **HEART RATE HILL**, **HEART RATE INTERVAL**, and **EXTREME HEART RATE**. The Time in Zone Goal option, another feature of heart rate zone training, enhances these workouts by setting a certain duration within the target zone as a workout goal. For detailed information about the workouts, as well as the Time In Zone Goal option, see Section 4, titled *The Workouts*.

During one of these workouts, grasp the Lifepulse system sensors continuously, or wear the Polar® heart rate chest strap to enable the on-board computer to monitor the heart rate during a workout. The computer automatically adjusts the resistance level to maintain the target heart rate\* based on the actual heart rate. To change the target heart rate during a workout, use the LEVEL ARROW keys.

\* Target Heart Rate (THR) is a percentage of the theoretical maximum. For example, a 40-year-old user's THR for the **CARDIO** workout is 144. This workout targets 80 percent of the maximum, so the equation would be  $(220-40) \times .80 = 144$ .

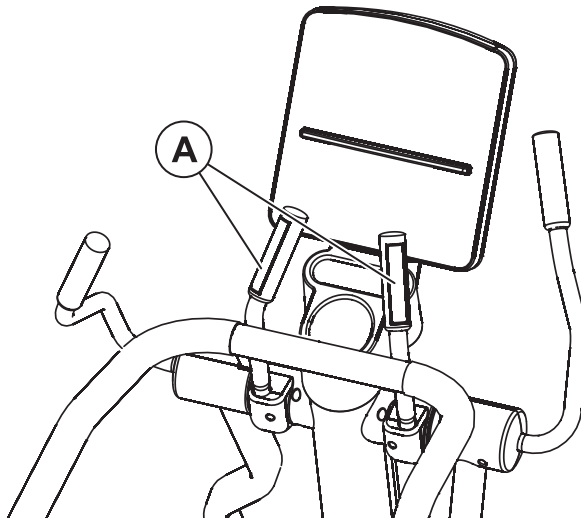
## 3.2 HEART RATE MONITORING

### THE LIFEPUULSE™ DIGITAL HEART RATE MONITORING SYSTEM

The patented Lifepulse system sensors are the built-in heart rate monitoring system on the Life Fitness Summit Trainer. For the most accurate reading possible, during a workout:

- Grasp the sensors (A) firmly, but do not squeeze tightly.
- Hold each sensors at the vertical midpoint.
- Keep hands steady and in place.

The console displays the heart rate within 20 to 30 seconds (typical) after the user grasps the sensors.



## THE POLAR® TELEMETRY HEART RATE MONITORING CHEST STRAP

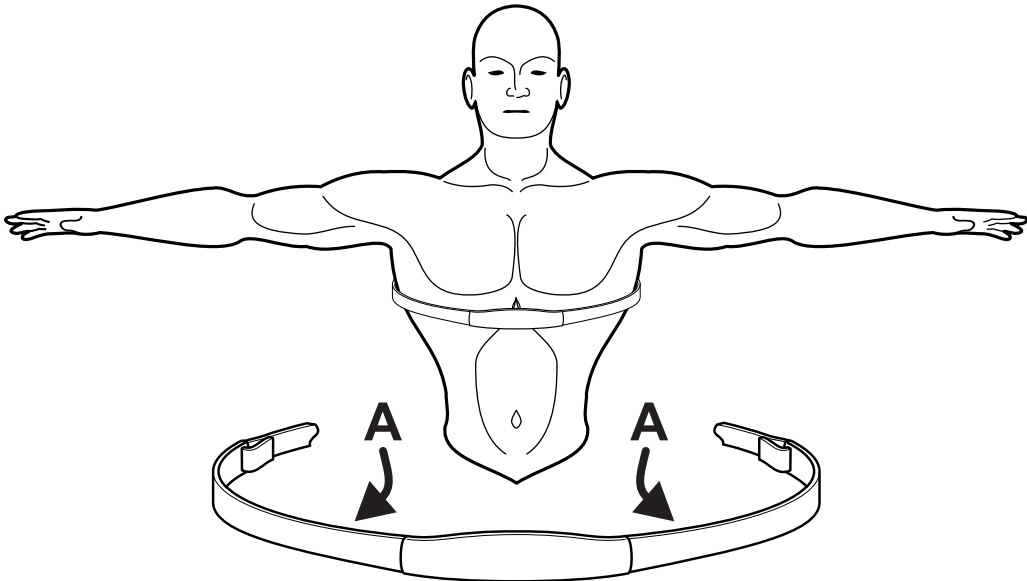
The Life Fitness Summit Trainer is equipped with Polar® heart rate monitoring system in which electrodes, pressed against the skin, transfer heart rate signals to the console. These electrodes are attached to a chest strap that the user wears during the workout. The chest strap is optional. To order it, call Life Fitness Customer Support Services. See Section 6.4, titled *How to Obtain Product Service*.

See the diagram below for correct positioning of the strap. The electrodes (A), which are the two grooved surfaces on the underside of the strap, must remain wet to transmit accurately the electrical impulses of the heart back to the receiver. Moisten the electrodes. Then, secure the strap as high under the chest muscles as possible. The strap should be snug, but comfortable enough to allow for normal breathing.

The transmitter strap delivers an optimal heart rate reading when the electrodes are in direct contact with skin. However, it also functions properly through a thin layer of wet clothing.

If it becomes necessary to re-moisten the chest strap electrodes, grasp the center of the strap, pull it away from the chest to expose the two electrodes, and moisten them.

**NOTE:** *If the Lifepulse system sensors are grasped while the chest strap is worn, and if the signals from the sensors are valid, the on-board computer uses the sensor signals for calculating the heart rate instead of those transmitted with the chest strap.*



# 4 THE WORKOUTS

## 4.1 WORKOUT OVERVIEWS

This section lists the Life Fitness Summit Trainer's pre-programmed workouts. For more detailed information, see Section 4.2, titled *Using the Workouts*.

**QUICK START** is the fastest way to begin exercising and bypasses the steps involved in selecting a specific workout program. After the QUICK START key is pressed, a constant-level workout begins. The intensity level does not change automatically.

**MANUAL** is a workout in which the intensity level does not change automatically. It is accessed with the MANUAL key.

**RANDOM** is an interval training workout of constantly changing intensity levels that occur in no regular pattern or progression. It is accessed with the RANDOM key.

**FAT BURN** is a low-intensity workout for burning the body's fat reserves. The user must wear a heart rate chest strap or grasp the Lifepulse system sensors continuously. The workout program automatically adjusts the intensity level, based on the actual heart rate, to maintain the rate at 65 percent of the theoretical maximum<sup>†</sup>. It is accessed with the FAT BURN key.

**CARDIO** is a higher intensity workout for more fit users, emphasizing cardiovascular benefits and maximum fat burning. The user must wear a heart rate chest strap or grasp the Lifepulse system sensors continuously. The workout program automatically adjusts the intensity level, based on the actual heart rate, to maintain the rate at 80 percent of the theoretical maximum. It is accessed with the CARDIO key.

**FIT TEST** measures cardiovascular fitness compared to other people of the same age and gender. It is accessed with the FIT TEST key.

The following workouts are accessed by pressing the ZONE TRAINING+ key:

**HEART RATE HILL** takes the user through three different hills based on the target heart rate\*. The user must grasp the Lifepulse system sensors continuously or wear a heart rate chest strap.

**HEART RATE INTERVAL** alternates between a hill and a valley based on the target heart rate. The user must grasp the Lifepulse system sensors continuously or wear a heart rate chest strap.

**EXTREME HEART RATE** alternates between two target heart rate goals as quickly as possible. The effect is similar to that of running sprints. The user must grasp the Lifepulse system sensors continuously or wear a heart rate chest strap.

The following workouts are accessed by pressing the HILL PLUS key:

**HILL** is an interval-training workout combining "hills" and "valleys" of different intensity levels, which is proven to provide effective, time-efficient cardiovascular results.

**AROUND THE WORLD** is an interval-training workout in which the hills resemble scenes of various geographical areas.

**CASCADES** is a two-peak workout in which intensity levels gradually increase and decrease.

<sup>†</sup> Defined by the American College of Sports Medicine's "Guidelines for Exercise Testing and Prescription" as equal to 220 minus an individual's age.

\* Target Heart Rate (THR) is a percentage of the theoretical maximum. For example, a 40-year-old user's THR for the **HEART RATE HILL** workout is 144. This workout targets 80 percent of the maximum, so the equation would be  $(220-40) \times .80 = 144$ .



**FOOTHILLS** is a rolling hill workout with low intensity levels.

**INTERVAL** is a Hill workout in which intensity levels rise and fall. The higher levels gradually incline toward a peak and then gradually decline.

**KILIMANJARO** is a Hill workout in which the intensity levels gradually incline toward one ultimate peak and then gradually decline.

**SPEED TRAINING** is a Hill workout in which the intensity level alternates between high and low levels very quickly to simulate a typical speed training workout.

The following workouts are accessed by pressing the **PERSONAL TRAINER** key:

**CROSS-TRAIN AEROBICS** simulates the experience of working with a personal trainer. The MESSAGE CENTER displays prompts at different times to emphasize pushing, pulling, total body, lower body and speed changes. This versatile workout promotes maximum cross-training benefits.

**PERSONAL TRAINER WORKOUTS** allows fitness club managers and other authorized personnel to create up to six custom workouts for the Life Fitness Summit Trainer. Options include custom, interval, heart rate and hill workouts.

## 4.2 USING THE WORKOUTS

This section provides detailed information on setting up and using workouts. For quick-reference setup steps, see the chart at the end of the section.

### TO BEGIN A WORKOUT

To mount the Life Fitness Summit Trainer, grasp the handrails and carefully step on the pedals. To dismount, step off the pedals while still holding the handrails. Then let go of the handrails.

**Without networking**, press **START** or begin pedaling to activate the console. The MESSAGE CENTER displays, "SELECT WORKOUT OR PRESS ENTER TO BEGIN." If it displays a different message, press the **CLEAR** key twice in rapid succession.

**With optional networking enabled**, press **START** or begin pedaling to activate the console. The MESSAGE CENTER displays, "SELECT WORKOUT OR ENTER ID USING ENTER KEY". Either select a workout as described below, or log on to the networked exercise database, and then select a workout. To log onto the network, key in the user ID number with the numeric keypad.

### SELECTING AND USING QUICK START

**QUICK START** is the fastest way to begin exercising and bypasses the steps of selecting a specific workout program. At the MESSAGE CENTER prompt to select a workout, press the **QUICK START** key. The workout begins at an intensity level that remains the same unless manually changed. After 12 seconds, the MESSAGE CENTER displays a prompt to enter weight, which the computer requires to calculate total calories burned.

## SELECTING A WORKOUT

For **MANUAL**, **FAT BURN**, **CARDIO**, **RANDOM** and **FIT TEST**: When prompted to select a workout, press the key labeled with the name of the desired workout.

For **HEART RATE HILL**, **HEART RATE INTERVAL**, and **EXTREME HEART RATE**: When prompted by the MESSAGE CENTER to select a workout, press the ZONE TRAINING+ key. The MESSAGE CENTER then displays the name of one of the zone training workouts. Press ENTER to select the displayed workout or continue to press the ZONE TRAINING+ key to display each of the other options. Press ENTER to select the desired workout.

For **CROSS-TRAIN AEROBICS**, **FIT TEST** and **PERSONAL TRAINER WORKOUTS**: When prompted by the MESSAGE CENTER to select a workout, press the PERSONAL TRAINER key. The MESSAGE CENTER displays the name a workout. Press ENTER to select the displayed workout or continue to press the PERSONAL TRAINER key to display each of the other options. Press ENTER to select the desired workout. For **PERSONAL TRAINER WORKOUTS**, once a workout is configured and saved, no further setup steps are necessary. For more information, see section 4.4, titled *Personal Trainer Workouts*.

For **HILL**, **AROUND THE WORLD**, **FOOTHILLS**, **INTERVAL**, **KILIMANJARO**, **CASCADES**, and **SPEED TRAINING**: When prompted by the MESSAGE CENTER to select a workout, press the HILL PLUS key. The MESSAGE CENTER then displays the name of one of these workouts. Press ENTER to select the displayed workout or continue to press the HILL PLUS key to display each of the other options. Press ENTER to select the desired program.

## ENTERING WEIGHT

When prompted by the MESSAGE CENTER to enter weight, use the ARROW KEYS to increase or decrease the displayed weight to the correct value (or key in the correct value with the NUMERIC KEYPAD) and press ENTER. The default weight is 150 pounds or 68 kilograms. The on-board computer calculates the number and rate of calories burned using the entered weight as well as the pedaling speed.

## ENTERING AGE

When prompted by the MESSAGE CENTER to enter age, use the ARROW KEYS to increase or decrease the displayed age to the correct value (or key in the correct value with the NUMERIC KEYPAD) and press ENTER.

Life Fitness Summit Trainer workout programs that set a target heart rate\* zone first calculate the user's theoretical maximum heart rate<sup>†</sup> by subtracting the user's age from the number 220. The programs then calculate the target zone as a percentage of the theoretical maximum.

## ENTERING TIME

When prompted by the MESSAGE CENTER to enter a time, use the ARROW KEYS to increase or decrease the displayed time to the desired value (or key in the desired value with the NUMERIC KEYPAD) and press ENTER.

<sup>†</sup> Defined by the American College of Sports Medicine's "Guidelines for Exercise Testing and Prescription" as equal to 220 minus an individual's age.

\* Target Heart Rate (THR) is a percentage of the theoretical maximum. For example, a 40-year-old user's THR for the **HEART RATE HILL** workout is 144. This workout targets 80 percent of the maximum, so the equation would be  $(220-40) \times .80 = 144$ .

## SELECTING AND ADJUSTING THE RESISTANCE LEVEL

When prompted by the MESSAGE CENTER, use the ARROW KEYS to increase or decrease the displayed intensity level or target heart rate\* to the desired value (or key in the desired value with the NUMERIC keypad) and press ENTER. Adjust the level as needed or desired during the workout.

- Resistance level: The Life Fitness Summit Trainer provides a selection of 25 resistance levels. The resistance level appears in the WORKOUT PROFILE window as rows of lights arranged in columns. Selecting a low intensity level at first is recommended. As physical conditioning improves, the levels can increase.
- Target heart rate: Programs that calculate a target heart rate base this number on the age of the user and the type of workout. The user accepts or adjusts the rate when setting up the workout. During the workout itself, the program reads the heart rate, which is transmitted via the heart rate chest strap or the Lifepulse system sensors; it uses this data to adjust the resistance. Manually raising the rate increases the intensity of the cardiovascular exercise.

## SELECTING A GOAL TYPE

Workouts can be programmed to target certain type of goals:

- Calories
- Distance
- Time in zone

The **Calories Goal** feature is designed to promote weight loss and weight control. The user sets a calorie goal during the workout setup. Once the goal is met, the workout automatically goes into a Cooldown Phase and ends afterward. To use this feature:

1. Press the PERSONAL TRAINER key when prompted to select a workout.
2. Continue to press the PERSONAL TRAINER key until the MESSAGE CENTER displays "CALORIES GOAL". Then press ENTER.
3. Enter the desired calorie goal value.
4. Select a workout.
5. Run through the set-up steps for the selected workout.
6. Begin the workout.

The **Distance Goal** feature is designed to build endurance. The user sets a distance goal during the workout setup. Once the goal is met, the workout automatically goes into a Cooldown Phase and ends afterward. To use this feature:

1. Press the PERSONAL TRAINER key when prompted to select a workout.
2. Continue to press the PERSONAL TRAINER key until the MESSAGE CENTER displays "DISTANCE GOAL".
3. Press ENTER.
4. Enter the desired distance goal value.
5. Select a workout.
6. Run through the set-up steps for the selected workout.
7. Begin the workout.

\* Target Heart Rate (THR) is a percentage of the theoretical maximum. For example, a 40-year-old user's THR for the **HEART RATE HILL** workout is 144. This workout targets 80 percent of the maximum, so the equation would be  $(220-40) \cdot 80 = 144$ .

The **Time in Zone Goal** program enhances **FAT BURN, CARDIO, HEART RATE HILL, HEART RATE INTERVAL**, and **EXTREME HEART RATE** workouts by setting a certain duration within the target zone\* as a workout goal. The program automatically alters the resistance to maintain a pace that will meet that objective within that duration. Once the objective is met, the workout automatically goes into a Cooldown Phase. To use the Time In Zone Goal feature:

1. Press the **ZONE TRAINING+** key when prompted to select a workout
2. Continue to press the **ZONE TRAINING+** key until the MESSAGE CENTER displays “TIME IN ZONE GOAL”. Then press **ENTER**.
3. Enter weight.
4. Select the duration for staying within the zone.
5. Select a **FAT BURN, CARDIO, HEART RATE HILL, HEART RATE INTERVAL**, or **EXTREME HEART RATE** workout.
6. Enter age.
7. Accept or change the target heart rate displayed by the MESSAGE CENTER.
8. Begin the workout.

## SELECTING A WORKOUT MODE

One workout mode option on the Life Fitness Summit Trainer features an alternate way to vary workouts.

- **Aerobics Mode:** This workout mode simulates the experience of working out with a trainer. Throughout the workout, the MESSAGE CENTER displays prompts to vary the workload and emphasize different muscle groups, such as upper- and lower-body. This feature can be used with any workout (except for Fat Burn, Cardio, Heart Rate Hill, Heart Rate Interval or Extreme Heart Rate). To select it, press **AEROBICS MODE** key.

## SWITCHING WORKOUTS “ON-THE-FLY”

It is possible, during a workout, to switch to another workout program. After a switch, the console retains all the progress information about the workout since its beginning. To change workouts “on the fly,” simply press the key for the desired new workout. This feature is available for all workouts except for Around the World, Kilimanjaro, Interval, Cascades, Speed Training, Foothills, and Personal Trainer workouts.

## PAUSING WORKOUTS

To pause a workout, simply stop pedaling. To continue the workout, resume pedaling. The pause duration lasts 60 seconds, after which the console automatically shuts down.

## ENDING WORKOUTS EARLY

To end a workout before the pre-set duration expires, press **CLEAR** once. The MESSAGE CENTER then displays a workout summary, which includes the distance travelled, the total calories burned, and other statistics. Press **CLEAR** a second time and the MESSAGE CENTER displays “SELECT WORKOUT OR PRESS QUICK START” for a new workout.

\* Target Heart Rate (THR) is a percentage of the theoretical maximum. For example, a 40-year-old user's THR for the **HEART RATE HILL** workout is 144. This workout targets 80 percent of the maximum, so the equation would be  $(220-40) \times .80 = 144$ .

# LIFE FITNESS SUMMIT TRAINER WORKOUT SETUP STEPS

## QUICK START

Press QUICK START  
Begin workout

## MANUAL

Press MANUAL  
Enter weight  
Enter time\*\*\*  
Select level  
Begin workout

## RANDOM

Press RANDOM  
Enter weight  
Enter time\*\*\*  
Select level  
Begin workout

## FAT BURN\*

Press FAT BURN  
Enter weight  
Enter time\*\*\*  
Enter age  
Accept THR\*\*  
Begin workout

## CARDIO\*

Press CARDIO  
Enter weight  
Enter time\*\*\*  
Enter age  
Accept THR  
Begin workout

## HEART RATE HILL\*

Press ZONE TRAINING+  
repeatedly until HR HILL  
appears; press ENTER  
Enter weight  
Enter time  
Enter age  
Accept THR  
Begin workout

## HEART RATE INTERVAL\*

Press ZONE TRAINING+  
repeatedly until HR  
INTERVAL appears;  
press ENTER  
Enter weight  
Enter time\*\*\*  
Enter age  
Accept THR  
Begin workout

## EXTREME HEART RATE\*

Press ZONE TRAINING+  
repeatedly until  
EXTREME HR appears;  
press ENTER  
Enter weight  
Enter time\*\*\*  
Enter age  
Accept THR  
Begin workout

## HILL

Press HILL PLUS  
repeatedly until HILL  
appears; press ENTER  
Enter weight  
Enter time\*\*\*  
Select level  
Begin workout

## AROUND THE WORLD

Press HILL PLUS repeatedly  
until AROUND THE  
WORLD appears; press  
ENTER  
Enter weight  
Enter time\*\*\*  
Select level  
Begin workout

## CASCADES

Press HILL PLUS repeated-  
ly until  
CASCADES appears;  
press ENTER  
Enter weight  
Enter time\*\*\*  
Select level  
Begin workout

## FOOTHILLS

Press HILL PLUS repeated-  
ly until FOOTHILLS  
appears; press ENTER  
Enter weight  
Enter time\*\*\*  
Select level  
Begin workout

## INTERVAL

Press HILL PLUS repeated-  
ly until INTERVAL  
appears; press ENTER  
Enter weight  
Enter time\*\*\*  
Select level  
Begin workout

## KILIMANJARO

Press HILL PLUS repeated-  
ly until KILIMANJARO  
appears; press ENTER  
Enter weight  
Enter time\*\*\*  
Select level  
Begin workout

## SPEED TRAINING

Press HILL PLUS repeatedly  
until SPEED TRAINING  
appears; press ENTER  
Enter weight  
Enter time\*\*\*  
Select level  
Begin workout

## CROSS-TRAIN

### AEROBICS

Press PERSONAL TRAIN-  
ER repeatedly until X-  
TRAIN  
AEROBICS appears;  
press ENTER  
Enter weight  
Enter time\*\*\*  
Select level  
Begin workout

## PERSONAL TRAINER WORKOUTS

Press PERSONAL TRAINER  
repeatedly until desired  
PERSONAL TRAINER  
WORKOUT number  
appears; press ENTER  
Enter weight  
Begin workout

## FIT TEST\*\*

Press FIT TEST  
Enter weight  
Enter age  
Enter gender  
Enter level  
Begin workout

\* This workout requires the user to wear the telemetry chest strap or to grip the Lifepulse system sensors.

\*\* Target Heart Rate (THR) is a percentage of the theoretical maximum. For example, a 40-year-old user's THR for the **FAT BURN** workout is 117. This workout targets 65 percent of the maximum, so the equation would be  $(220-40) \times .65 = 117$ . When the MESSAGE CENTER displays a Target Heart Rate, either accept it by pressing ENTER, or change the value with the LEVEL ARROW key, and then press ENTER.

\*\*\* If a calorie or distance goal is being used, the MESSAGE CENTER does not display a prompt for a time duration.

## 4.3 WORKOUT DESCRIPTIONS

### QUICK START

**QUICK START** is the fastest way to begin exercising and bypasses the steps of selecting a specific workout program. The intensity level for the workout is set automatically and remains the same unless manually changed. To change the level, use the **LEVEL ARROW** keys or use the **NUMERIC KEYPAD** to enter a higher or lower level number. After the workout has been in progress for 12 seconds, the **MESSAGE CENTER** displays "ENTER WEIGHT", which the computer requires to calculate total calories. Using the **ARROW KEYS**, increase or decrease the displayed weight to the correct value (or enter the weight using the **NUMERIC keypad**).

### MANUAL WORKOUT

The **MANUAL** program sets an intensity level that does not change automatically. While the workout is in progress, increase or lower the intensity level as desired using the **ARROW** keys.

### RANDOM WORKOUT

The **RANDOM** program creates a terrain of hills and valleys that varies with each workout. More than one million different patterns are possible. Because workout levels are greater in this workout than in the **HILL** workout, it is recommended that the **RANDOM** workout be set one or two levels lower than the workout level which would normally be selected in the **HILL** workout.

### FAT BURN

The **FAT BURN** workout is designed to maintain a user's heart rate at 65 percent of the theoretical maximum<sup>†</sup> for optimal results. Throughout the workout, the user wears a chest strap or grips the Lifepulse system sensors. If the user is not wearing a chest strap, the **WORKOUT PROFILE** window displays a heart shape and the **MESSAGE CENTER** displays a prompt to grip the sensors. The console continuously monitors and displays the heart rate, adjusting the intensity level of the Life Fitness Summit Trainer to reach and maintain the target\*. This system eliminates over- and under-training and maximizes the aerobic benefits of exercise by using the body's fat stores for fuel.

### CARDIO

The **CARDIO** workout is virtually identical to **FAT BURN**, except the target heart rate is calculated at 80 percent of the theoretical maximum. As with **FAT BURN**, the user wears a chest strap or grips the Lifepulse system sensors throughout the **CARDIO** workout. The higher target promotes cardiovascular improvement by placing a heavier workload on the heart muscle.

### HILL

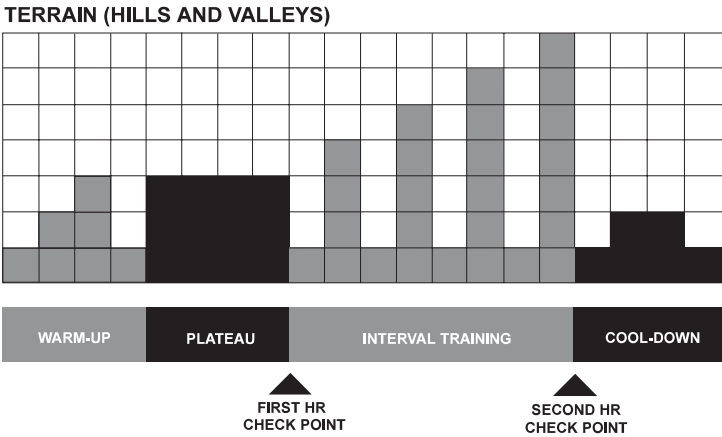
The Life Fitness-patented **HILL** workout offers a variety of configurations for interval training. Intervals are periods of intense aerobic exercise separated by regular periods of lower-intensity exercise. The **WORKOUT PROFILE** window represents these high and low intervals as columns of light, which together have the appearance of hills and valleys. The computerized interval training workout has been scientifically demonstrated to promote greater cardio-respiratory improvement than steady-pace training.

<sup>†</sup> Defined by the American College of Sports Medicine's "Guidelines for Exercise Testing and Prescription" as equal to 220 minus an individual's age.

\* Target Heart Rate (THR) is a percentage of the theoretical maximum. For example, a 40-year-old user's THR for the **FAT BURN** workout is 117. This workout targets 65 percent of the maximum, so the equation would be  $(220-40) \times .65 = 117$ .

Each **HILL** workout goes through four phases, each marked by different intensity levels. The **WORKOUT PROFILE** window displays the progress of these phases, as seen in the chart following these descriptions below. As noted in the descriptions, the heart rate should be measured at two stages in the workout to gauge its effectiveness. To do so, wear the chest strap or continuously grip the Lifepulse system sensors. Note that the **MESSAGE CENTER** does not display a request for a heart rate measurement during a **HILL** workout.

- 1 **Warm-up** is a phase of low, gradually-rising resistance, which brings the heart rate into the lower end of the target zone and increases respiration and blood flow to working muscles.
- 2 **Plateau** increases the intensity slightly, and keeps it steady, to bring the heart rate to the low end of the target zone. Check the heart rate at the end of this phase.
- 3 **Interval Training** is a series of increasingly steeper hills, alternating with valleys (or periods of recovery). The heart rate should rise to the high end of the target zone. Check the heart rate at the end of this phase.
- 4 **Cool-down** is a low-intensity phase that allows the body to begin removing lactic acid and other exercise by-products, which build up in muscles and contribute to soreness.



Each column, as seen in the **WORKOUT PROFILE** window and the chart above, represents one interval. The overall duration of the workout determines the length of each interval. Each workout is made up of 20 intervals, so the duration of each interval is equal to the duration of the entire workout divided by 20.

**10 to 19 minutes:** The interval durations initially are set at 30 seconds for a 10-minute workout. For every minute added by the user “on the fly,” each interval increases by three seconds. A 15-minute workout consists of 20 intervals at 45 seconds each.

**20 to 99 minutes:** All intervals last 60 seconds. If the user adds minutes to the pre-set duration while the workout is in progress, the program adds hills and valleys that are identical to the first eight intervals of the Interval Training phase. This pattern repeats until the workout is completed.

## **SIX PRE-SET WORKOUTS**

AROUND THE WORLD, CASCADES, FOOTHILLS, INTERVAL, KILIMANJARO, and SPEED TRAINING are variations of the HILL workout. These workouts cannot be changed “on the fly.”

AROUND THE WORLD is an interval-training workout in which the hills resemble scenes of various geographical areas.

CASCADES is a two-peak workout in which intensity levels gradually increase and decrease.

FOOTHILLS is a rolling hill workout with low intensity levels.

INTERVAL is a Hill workout in which intensity levels rise and fall. The higher levels gradually incline toward a peak and then gradually decline.

KILIMANJARO is a Hill workout in which the intensity levels gradually incline toward one ultimate peak and then gradually decline.

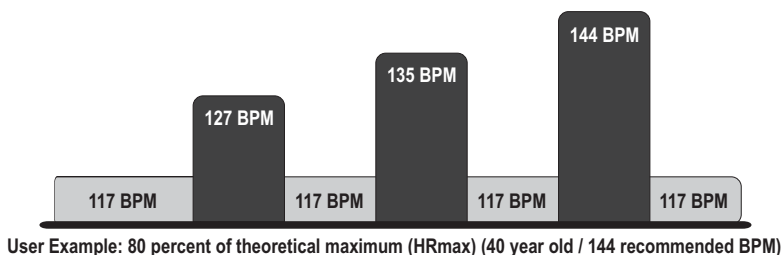
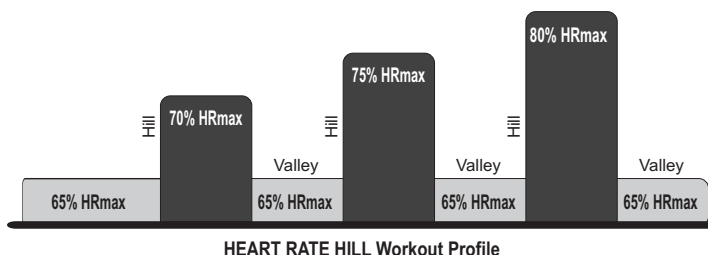
SPEED TRAINING is a Hill workout in which the intensity level alternates between high and low levels very quickly to simulate a typical speed training workout.



## HEART RATE HILL™

This program combines the standard **HILL** workout profile with the concept of Heart Rate Zone Training. The default target heart rate\* is calculated as 80 percent of the theoretical maximum† (HRmax), but the user can adjust the target rate during the workout setup. All hills and valleys are percentages of HRmax. The workout consists of three hills that target three heart rate goals: The first hill brings the heart rate to 70 percent of HRmax. The second hill increases the rate to 75 percent of HRmax. The third hill matches the Target Heart Rate bringing the heart rate to 80 percent of HRmax. The valley always is defined as 65 percent of HRmax.

After a standard three-minute warm-up, the workout progresses toward the first hill and heart rate goal. Once the user reaches 70 percent of HRmax, the hill continues for one minute. When the minute expires, the level decreases into a valley. Once the user's heart rate falls to 65 percent of HRmax, the valley continues for one minute. Then the next hill begins with its corresponding heart rate goal. After the user completes the third hill/valley pair, the program returns to the first hill and repeats the cycle as long as the duration allows. At the end of the duration, the workout goes into a cool-down phase. If the heart rate goes above the theoretical maximum for more than 45 seconds, the cross-trainer automatically goes into pause mode. The program does not proceed to a new heart rate goal until the user reaches the current goal. The user must wear a heart rate chest strap or grip the Lifepulse sensors throughout the workout.

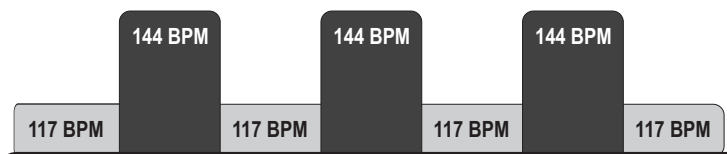
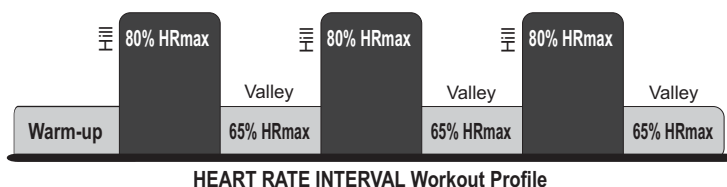


† Defined by the American College of Sports Medicine's "Guidelines for Exercise Testing and Prescription" as equal to 220 minus an individual's age.

\* Target Heart Rate (THR) is a percentage of the theoretical maximum (HRmax). A 40-year-old user's recommended THR for the HEART RATE HILL workout is 144, or 80 percent of the maximum; so the equation would be  $(220-40) \cdot 80 = 144$ .

## HEART RATE INTERVAL™

This program also combines the standard **HILL** workout profile with the concept of Heart Rate Zone Training. The default target heart rate\* is calculated as 80 percent of the theoretical maximum† (HRmax), but the user can adjust the target rate during the workout setup. The workout alternates between a hill, which brings the heart rate up to the target rate of 80 percent of HRmax, and a valley, which brings the heart rate down to 65 percent of HRmax. After a standard three-minute warm-up, the workout progresses toward the first hill and heart rate goal. Once the goal is reached, the hill continues for three minutes. Then the level decreases into a valley. Once the 65 percent of HRmax goal is reached, the valley continues for three minutes, after which the next hill begins. The user's fitness level determines the number of hills and valleys encountered within the duration. At the end of the duration, the workout goes into a cool-down phase. If the heart rate goes above the theoretical maximum† for more than 45 seconds, the cross-trainer automatically goes into pause mode. The program does not proceed to a new heart rate goal until the user reaches the current goal. The user must wear a heart rate chest strap or grip the Lifepulse sensors throughout the workout.



User Example: 80 percent of theoretical maximum (HRmax) (40 year old / 144 recommended BPM)

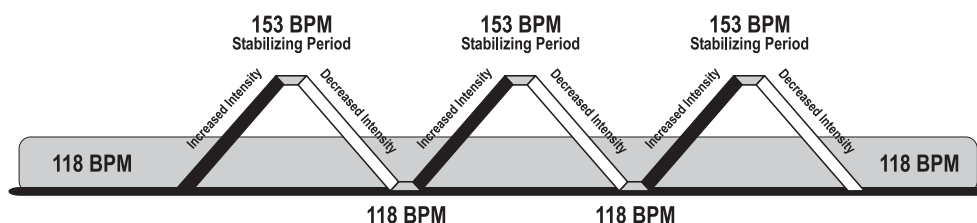
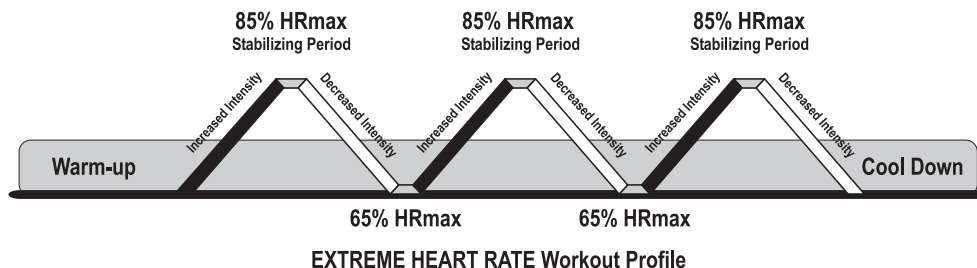
† Defined by the American College of Sports Medicine's "Guidelines for Exercise Testing and Prescription" as equal to 220 minus an individual's age.

\* Target Heart Rate (THR) is a percentage of the theoretical maximum (HRmax). A 40-year-old user's recommended THR for the HEART RATE INTERVAL workout is 144, or 80 percent of the maximum; so the equation would be  $(220-40) \times 0.80 = 144$ .

## EXTREME HEART RATE™

This intense, varied workout is designed to help more experienced users break through fitness improvement plateaus. The workout alternates between two target heart rates\* as quickly as possible. The effect is similar to that of running sprints. The user must wear a chest strap or grip the Lifepulse™ sensors throughout the workout.

When setting up the workout, the user enters a target heart rate. After a standard three-minute warm-up, the intensity increases, until the user reaches the target heart rate goal of 85 percent of the theoretical maximum† (HRmax). That target rate is maintained for a stabilizing period. Then, the intensity decreases. When the heart rate falls to the 65 percent of HRmax goal, it is maintained there for a stabilizing period. The program repeats the alternating of intensity levels, continuing this pattern throughout the duration. The program does not proceed to a new heart rate goal until the user reaches the current goal.



† Defined by the American College of Sports Medicine's "Guidelines for Exercise Testing and Prescription" as equal to 220 minus an individual's age.

\* Target Heart Rate (THR) is a percentage of the theoretical maximum (HRmax). For example, a 40-year-old user's recommended THR for the EXTREME HEART RATE™ WORKOUT is 153. The workout program targets a standard 85 percent of the maximum, so the equation would be  $(220 - 40) \times .85 = 153$ .

## **CROSS-TRAIN AEROBICS**

During this workout, the MESSAGE CENTER displays prompts to emphasize different muscle groups. To emphasize upper-body muscles, the MESSAGE CENTER displays prompts to focus on pushing and pulling the moving arms at various times. To emphasize lower-body muscles, the MESSAGE CENTER displays prompts to rest the hands on the stationary handlebar, thus forcing the legs to do all the work. The program also prompts different speeds.

**CROSS-TRAIN AEROBICS** is a constant-resistance workout. However, for a similar experience with a variable-resistance-level workout, the user can start any workout (except for Fat Burn, Cardio, Heart Rate Hill, Heart Rate Interval, or Extreme Heart Rate) and then press the AEROBICS MODE key.

## FIT TEST

The Life Fitness Summit Trainer Fit Test program is another exclusive feature of this versatile product. The Fit Test workout measures cardiovascular fitness and can be used to monitor improvements in endurance every four to six weeks. The user must grasp the Lifepulse hand sensors when prompted or wear a heart rate chest strap, as the test score calculation is based on a heart rate reading. The workout duration will be five minutes at the chosen resistance level. Immediately afterward, the console will take the user's heart rate reading, calculate a fitness score, and display the score in the MESSAGE CENTER.

The Fit Test is considered to be a submax VO<sub>2</sub> (volume of oxygen) test. It gauges how well the heart supplies oxygenated blood to the exercising muscles, and how efficiently those muscles receive oxygen from the blood. Physicians and exercise physiologists generally regard this test as a good measure of aerobic capacity.

To set up the Fit Test:

- Begin pedaling.
- Press the FIT TEST button.
- The message center will prompt for a user weight (ENTER WEIGHT). Use the NUMERIC KEYS or UP/DOWN ARROW KEYS to input your weight. Press ENTER to accept the weight.
- The message center will next prompt for a user age (ENTER AGE). Use the NUMERIC KEYS or UP/DOWN ARROW KEYS to input your age. Press ENTER to accept the age.
- The message center will next prompt for a user gender (SELECT GENDER). Using the UP/DOWN ARROW KEYS, select a gender. Press ENTER to accept the gender selection.
- The message center will next prompt for a workout level (ENTER LEVEL). Consult the following recommended fit test level chart for an appropriate effort level based on your age, gender and activity level. Use the NUMERIC KEYS or UP/DOWN ARROW KEYS to enter the corresponding level.
- As the test continues, a message will prompt the user to maintain a pedaling rate between 2.5-3.5 mph. The user must maintain this rate throughout the 5-minute test duration. After 16 seconds, if 2.5-3.5 mph speed is not maintained, the fit test will automatically terminate.

After the five-minute FIT TEST is completed, a FIT TEST score will be displayed.

### FIT TEST PROGRAM SUGGESTED EXERTION LEVELS

	Inactive	Active	Very Active
Summit Trainer Fit Test Level	L1-4 men	L5-9 men	L10-15 men
	L1-3 women	L4-7 women	L8-12 women

Suggested exertion levels should be used as a guideline for setting up the Fit Test program. The goal is to elevate the user's heart rate to a level that is between 60%-100% of their theoretical maximum heart rate<sup>†</sup>.

<sup>†</sup> Defined by the American College of Sports Medicine's "Guidelines for Exercise Testing and Prescription" as equal to 220 minus an individual's age.

Within each suggested range, these additional guidelines can be used:

Lower Half of Range	Upper Half of Range
higher age	lower age
lower weight	higher weight*
shorter	taller

\* in cases of excessive weight, use lower half of range

The computer will not accept:

- heart rates less than 52 or greater than 200 beats per minute
- body weights less than 75 pounds (34 kg) or greater than 400 pounds (182 kg)
- ages below 10 or over 99 years
- data input that exceeds human potential

If you make an error when entering any Fit Test data, you can correct it by pressing CLEAR, inputting the correct information, and pressing ENTER.

It is important for you to take the Fit Test under similar circumstances each time. Your heart rate is dependent on many factors, including:

- amount of sleep the previous night (at least seven hours is recommended)
- time of day
- time since last meal (two to four hours after the last meal is recommended)
- time since last beverage containing caffeine or alcohol, or cigarette (at least four hours is recommended)
- time since last exercise (at least six hours is recommended)

For the most accurate Fit Test results, perform the Fit Test on three consecutive days and average the three scores.

**NOTE:** *To receive a proper Fit Test score, the work done must be within a training heart rate zone that is 60 percent to 100 percent of the theoretical maximum heart rate. This rate is defined by the American College of Sports Medicine's "Guidelines for Exercise Testing and Prescription" as equal to 220 minus an individual's age.*

The tables below list fit test results.

#### RELATIVE FITNESS CLASSIFICATION FOR MEN

Men	Estimated VO2 Max (ml/kg/min) Per Age Category				
<i>Rating</i>	<i>20-29</i>	<i>30-39</i>	<i>40-49</i>	<i>50-59</i>	<i>60+</i>
Elite	52+	51+	48+	45+	42+
Excellent	50-51	48-50	46-47	42-44	39-41
Very Good	47-49	45-47	43-45	40-41	36-38
Above Average	44-46	42-44	40-42	37-39	33-35
Average	41-43	39-41	37-39	34-36	30-32
Below Average	38-40	36-38	34-36	31-33	27-29
Low	35-37	33-35	31-33	28-30	24-26
Very Low	<35	<33	<31	<28	<24

#### RELATIVE FITNESS CLASSIFICATION FOR WOMEN

Women	Estimated VO2 Max (ml/kg/min) Per Age Category				
<i>Rating</i>	<i>20-29</i>	<i>30-39</i>	<i>40-49</i>	<i>50-59</i>	<i>60+</i>
Elite	44+	42+	39+	35+	34+
Excellent	42-43	40-41	37-38	33-34	32-33
Very Good	39-41	37-39	35-36	31-32	30-31
Above Average	37-38	35-36	32-34	29-30	28-29
Average	34-36	32-34	30-31	27-28	25-27
Below Average	31-33	29-31	27-29	25-26	23-24
Low	28-30	27-28	25-26	22-24	20-22
Very Low	<28	<27	<25	<22	<20

Life Fitness developed this rating scale based on VO2 max percentile distributions referenced in *American College of Sports Medicine's "Guidelines for Exercise Testing and Prescription"* (6th Ed. 2000). It is designed to provide a qualitative description of a user's VO2 max estimation, and a means of assessing initial fitness level and tracking improvement.

## 4.4 PERSONAL TRAINER WORKOUTS

Using the console, fitness club managers and other authorized personnel can create up to six custom workouts for the Life Fitness Summit Trainer. Options include custom interval heart rate and hill workouts.

**Interval heart rate:** The trainer can design a workout that sets a different target heart rate\* for each interval and adjusts the resistance to the user's heart rate.

**Hill:** The trainer can create a custom hill workout that sets a different intensity level for each interval.

### USING PERSONAL TRAINER WORKOUTS

Once **PERSONAL TRAINER** workouts are created, users can access them with the **PERSONAL TRAINER** key. Each custom workout is identified by a numeral, from 1 to 6. To select these workouts, press the **PERSONAL TRAINER** key. When prompted by the **MESSAGE CENTER**, press the number corresponding to the desired workout using the **NUMERIC** keypad. Then press **ENTER** and begin the workout.

### CREATING A PERSONAL TRAINER WORKOUT

When the console is activated, hold down the **COOLDOWN** button and press the **PERSONAL TRAINER** button simultaneously.

Using the **ARROW** keys, scroll to, and select, the "PERSONAL TRAINER WORKOUT ENTRY" option and press **ENTER**. (If the alternate option, "ERASE PERSONAL TRAINER WORKOUTS", is selected, the computer deletes setup information for all **PERSONAL TRAINER** workouts and the **MESSAGE CENTER** displays "PERSONAL TRAINER WORKOUTS ERASED". Then the **MESSAGE CENTER** displays "PERSONAL TRAINER WORKOUT ENTRY").

Select a number, from 1 to 6, to identify the new workout. Use the **NUMERIC** keypad or the **ARROW** keys. Then press **ENTER**.

If a **PERSONAL TRAINER** workout already has been created for that number, the **MESSAGE CENTER** displays a prompt to either modify the workout or proceed to another number. Pressing the **CLEAR** key overwrites the previously created workout, making it possible to create a new workout for that number. Pressing **ENTER** bypasses the number and proceeds to another number.

If a **PERSONAL TRAINER** workout has not been created for a selected number, the **MESSAGE CENTER** displays the prompt, "BEGIN PERSONAL TRAINER WORKOUT CREATION".

The **MESSAGE CENTER** displays a prompt to enter a duration time for the entire workout. Using the **NUMERIC** keypad, enter a duration and press **ENTER**.

The **MESSAGE CENTER** displays a prompt to select the workout type. Options are "TARGET HEART RATE PERCENTAGE" or "LEVEL". The latter type is for custom hill workouts. Use the **ARROW** keys to toggle between the options, and press **ENTER** to select one of them.

The **MESSAGE CENTER** displays a prompt to select a target heart rate or an intensity level for the first interval, depending on the type of workout chosen in an earlier step. Use the **ARROW** keys or the **NUMERIC** keypad. A **PERSONAL TRAINER** workout consists of 30 intervals, so the length of each interval is equal to the workout duration value divided by 30. After entering the value, press **ENTER**. Repeat this set of steps for each of the following 29 intervals. To keep the preceding value for the current interval, simply press **ENTER**. At the end of this setup, the **MESSAGE CENTER** displays "PERSONAL TRAINER WORKOUT COMPLETED". The new **PERSONAL TRAINER** workout is ready to use.

Press the **ENTER** key to set up another workout. OR

Press the **CLEAR** key. The **MESSAGE CENTER** will display "SELECT WORKOUT OR PRESS QUICK START".

*\* Target Heart Rate (THR) is a percentage of the theoretical maximum. For example, a 40-year-old user's THR for the **CARDIO** workout is 144. This workout targets 80 percent of the maximum, so the equation would be  $(220-40) \cdot .80 = 144$ .*



## 4.5 USING THE LIFE FITNESS SUMMIT TRAINER

### SUMMIT TRAINER MOTION

The Life Fitness Summit Trainer has a user-defined stride length with a maximum of 26 inches, or 66 centimeters. The unit features dependent stepping action, which means that the pedal movements are dependent upon each other from left to right and from lower body to upper body. The benefits of these features include:

- Variety of stride lengths to accommodate shorter and taller users and to allow for a variety of motions
- Pull-push hip and knee action, which simulates actual climbing
- Development of muscular strength and endurance
- Excellent cardiovascular exercise

### POSTURE DURING WORKOUTS

Begin stepping at a comfortable pace, taking either full or short steps, and keeping the back straight. Hold the handrails, the bullhorns, or the moving arms. It should be noted that resting on the handrails for support can offload weight and cause the Life Fitness Summit Trainer console to give inaccurate readings of calories burned.

There are five different body positions that can be used to activate different muscle groups.

1. **Upright, Lower Body.** With hands on handrails, maintain an upright, plumb-line position with your ears over shoulders, shoulders over hips and knees in line with toes. This upright posture promotes shorter strides. This position is good for beginners and recovery from advanced positions.
2. **Upright, Total Body.** With hands on moving arms, maintain an upright, plumb-line position as described above with your ears over shoulders, shoulders over hips and knees in line with toes. Keep your hips square to the console. This position is good for all levels and recovery from advanced positions.
3. **Forward Lean, Lower Body Only.** With hands on handrails, bend forward at hips and maintain an erect spine and lower body alignment. This position is good for intermediate to advanced users and recovery from advanced positions.
4. **Forward Lean, Total Body.** With hands on moving arms, bend forward at hips and maintain an erect spine and lower body alignment. The arms facilitate the leg movement, while the upper body push and pull encourages longer strides. This position is good for intermediate to advanced users.
5. **Racing Position, Lower Body Only.** With hands on the bull horns or elbows resting on the handrails, achieve a racing position by bending forward at hips while maintaining a flat back and lower body alignment of the knees and toes. This forward position promotes maximum stride length and hip extension. This position is good for advanced users for a short period of time.

### BRAKING RESISTANCE

The Life Fitness Summit Trainer features speed-independent braking resistance. During a workout, the computer maintains a braking resistance that corresponds to the selected intensity level, regardless of the user's speed.

# 5

## OPTIONAL SETTINGS

### 5.1 ENTERING AND USING THE OPTIONAL SETTINGS FEATURE

Fitness club managers and other authorized personnel can use the Optional Settings feature to change default settings or to enable or disable certain workouts or displays on the Life Fitness Summit Trainer console.

To enter the Optional Settings, while the unit is on, hold down the 5 key and press CLEAR twice. The MESSAGE CENTER displays “OPTIONAL SETTINGS” and then the first configuration option. Scroll forward through the options using the ENTER key or backward using the CLEAR key. For each feature or setting option, the MESSAGE CENTER displays the default setting. To change the default, press the UP or DOWN ARROW key for the desired value. Press ENTER to select the new value or setting. To exit Optional Settings, press the CLEAR key repeatedly until the MESSAGE CENTER displays “SELECT WORKOUT OR PRESS QUICK START”.

OPTIONAL SETTINGS		
Setting	Default Value	Description
MAX WORKOUT DURATION	60 minutes	This is the maximum possible duration for a workout. The value can range from 10 to 99.
ENGLISH/METRIC UNITS	ENGLISH	This option determines the units used for entering weight and measuring distance.
WATTS DISPLAY ENABLE/DISABLE	DISABLED	If this option is enabled, the MESSAGE CENTER displays the number of Watts equivalent to the pedaling rate.
METS DISPLAY ENABLE/DISABLE	DISABLED	If this option is enabled, the MESSAGE CENTER displays the METs equivalent to the pedaling rate.
CAL/HR DISPLAY ENABLE/DISABLE	DISABLED	If this option is enabled, the MESSAGE CENTER displays the number of calories burned per hour during the workout.

# 6 SERVICE AND TECHNICAL DATA

## 6.1 PREVENTIVE MAINTENANCE TIPS

The Life Fitness Summit Trainer is backed by the engineering excellence of Life Fitness. Commercial Life Fitness products have proven to be durable in health clubs, colleges, and military facilities the world over. This same technology, engineering expertise, and reliability have gone into the Life Fitness Summit Trainer.

**NOTE:** *The safety of the equipment can be maintained only if the equipment is examined regularly for damage or wear. Keep the equipment out of use until defective parts are repaired or replaced. Pay special attention to parts that are subject to wear as outlined in the Preventive Maintenance Schedule.*

**REMARQUE :** *pour conserver un matériel sûr, il convient de l'inspecter régulièrement afin de déceler tout signe d'usure ou d'endommagement. N'utilisez pas l'appareil tant que les pièces défectueuses n'ont pas été réparées ou remplacées. Portez une attention toute particulière aux pièces qui s'usent, comme indiqué ci-dessous.*

The following preventive maintenance tips will keep your Life Fitness Summit Trainer operating at peak performance:

- Locate the Life Fitness Summit Trainer in a cool, dry place.
- Clean the top surface of the pedals regularly.
- Keep the display console free of fingerprints and salt build-up caused by sweat.
- Use a 100% cotton cloth, lightly moistened with water and mild liquid detergent, to clean the Life Fitness Summit Trainer. Other fabrics, including paper towels, may scratch the surface. Do not use ammonia, chlorine, or acid-based cleaners.
- Long fingernails may damage or scratch the surface of the console; use the pad of the finger to press the selection buttons on the console.
- Clean the housing and moving arms thoroughly on a regular basis.



**NOTE:** When cleaning the exterior of the unit, a non-abrasive cleaner and soft cotton cloth are strongly recommended. At no time should cleaner be applied directly to any part of the equipment; apply the non-abrasive cleaner on a soft cloth and then wipe the unit.

## 6.2 PREVENTIVE MAINTENANCE SCHEDULE

Follow the schedule below to ensure proper operation of the product.

<b>ITEM</b>	<b>WEEKLY</b>	<b>MONTHLY</b>	<b>BI-ANNUALLY</b>	<b>ANNUALLY</b>
<i>Display Console</i>	<i>Clean</i>	<i>Inspect</i>		
<i>Console Mounting Bolts</i>			<i>Inspect</i>	
<i>Accessory Tray</i>	<i>Clean</i>	<i>Inspect</i>		
<i>Frame</i>	<i>Clean</i>			<i>Inspect</i>
<i>Plastic Covers</i>	<i>Clean</i>	<i>Inspect</i>		

## 6.3 TROUBLESHOOTING THE POLAR® HEART RATE CHEST STRAP

### HEART RATE READING IS ERRATIC, ABSENT ENTIRELY, OR ABNORMALLY ELEVATED

<b>Malfunction</b>	<b>Probable Cause</b>	<b>Corrective Action</b>
Heart rate reading is erratic or absent entirely	Belt transmitter electrodes are not wet enough to pick up accurate heart rate readings.	Wet the belt transmitter electrodes (see section 3.2).
	Belt transmitter electrodes are not laying flat against the skin.	Ensure the belt transmitter electrodes are laying flat against the skin (see section 3.2).
	Belt transmitter needs cleaning.	Wash the belt transmitter with mild soap and water.
	Belt transmitter is not within 3 feet (one meter) of the heart rate receiver.	Make sure the chest strap transmitter is within three feet (one meter) of the heart rate receiver.
	Chest strap battery is depleted.	Contact Life Fitness Customer Support Services for instructions on how to have the chest strap replaced.
Abnormally elevated heart rate readings	Electromagnetic interference from television sets and/or antennas.	Move the Summit Trainer a few inches away from the probable cause, or move the probable cause a few inches away from the Summit Trainer, until the heart rate readings are accurate.
	Electromagnetic interference from cell phones.	
	Electromagnetic interference from computers.	
	Electromagnetic interference from cars.	
	Electromagnetic interference from high voltage power lines.	
	Electromagnetic interference from motor driven exercise equipment.	
	Electromagnetic interference from another heart rate transmitter within three feet (one meter).	

## 6.4 TROUBLESHOOTING THE LIFE PULSE SYSTEM SENSORS

If the heart rate reading is erratic or missing, do the following:

- Dry the hands if necessary to prevent slipping.
- Apply hands to all four sensors, located at the front and back of the hand grips.
- Grasp the sensors firmly.
- Apply constant pressure around the sensors.

## 6.5 HOW TO OBTAIN PRODUCT SERVICE

1. Verify the symptom and review the operating instructions. The problem may be unfamiliarity with the product and its features and workouts.
2. Locate the serial number plate, which is at the back end of the unit. Document the serial number, which consists of three letters followed by six numerals.
3. Contact Life Fitness Customer Support Services via the Web at: [www.lifefitness.com](http://www.lifefitness.com), or call the nearest Life Fitness Customer Support Services group:

For Product Service within  
the United States and Canada:

Telephone: (+1) 847.451.0036  
FAX: (+1) 847.288.3702  
Toll-free telephone: 800.351.3737

For Product Service Internationally:

*Life Fitness Atlantic BV*  
*Life Fitness Benelux*  
Bijdorplein 25-31  
NL-2992 LB Barendrecht  
Netherlands

*Life Fitness Germany & Austria*  
*Life Fitness Europe GmbH*  
Siemensstrasse 3  
85716 Unterschleissheim  
Germany

*Life Fitness UK LTD*  
Queen Adelaide  
Ely  
Cambridgeshire  
CB7 4UB

*For Life Fitness Iberia ( Spain)*  
C/Frederic Mompou 5  
Edificio Euro 3  
08960 Sant Just Desvern  
(Barcelona) Spain

*Life Fitness Italy*  
Centro Assistenza Tecnica ABS  
Viale Kennedy 15/A  
24066 Pedrengo  
Brescia - IT

# 7 SPECIFICATIONS

## 7.1 LIFE FITNESS 95Li SUMMIT TRAINER

Designed use:	Heavy/Commercial
Maximum user weight:	400 pounds / 182 kilograms
Power requirements:	None.
Console:	
Type:	MESSAGE CENTER with NUMERIC keypad and ARROW keys
Displays:	Elapsed time, speed, level, calories, heart rate, distance. When enabled: calories burned per hour, METS, and watts
Summaries:	Total elapsed time of workout, total calories burned, total distance
Character size:	0.54 inches
Workouts and Goals:	Manual, Random, Hill, Cross-Train Aerobics, Fat Burn, Cardio, Fit Test, Heart Rate Hill, Heart Rate Interval, Extreme Heart Rate, Around the World, Cascades, Foothills, Kilimanjaro, Interval, Speed Training, Personal Trainer Workouts (6 slots), Time in Zone Goal, Calories Goal, Distance Goal, Quick Start
Modes:	Aerobics mode during all workouts except for Fat Burn, Cardio, Heart Rate Hill, Heart Rate Interval, or Extreme Heart Rate
Heart rate monitor:	Polar® telemetry heart rate monitoring system Lifepulse system sensors Polar® heart rate chest strap: optional
Resistance Levels:	25 (speed independent)
Pedal speed range:	0.5 mph-5.8 mph (0.8 km/h-9.3km/h)
Drive type:	Belt/alternator
Accessory Tray:	Standard
Integrated Reading Rack:	Standard
Color:	Silver with gray accents

### PHYSICAL DIMENSIONS:

Length:	68 inches / 171 centimeters
Width:	33 inches / 83 centimeters
Height:	73 inches / 184 centimeters
Weight:	345 pounds / 157 kilograms

### SHIPPING DIMENSIONS:

Length:	71 inches / 180 centimeters
Width:	36 inches / 92 centimeters
Height:	48 inches / 122 centimeters
Weight:	405 pounds / 184 kilograms



**M051-00K68-A001**