Trainingsund Bedienungsanleitung

Training and Operating Instructions

Mode d'emploi et instructions d'entraînement

Trainings- en bedieningshandleiding

Instrucciones de entrenamiento y manejo

Istruzioni per l'allenamento e per l'uso

Instrukcja treningowa i instrukcja obsługi

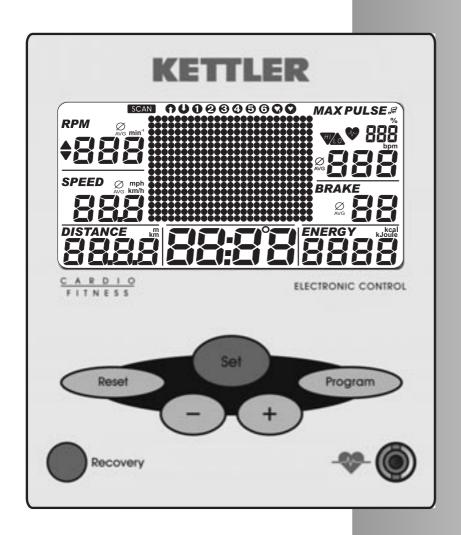




















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This sign in the instructions refers to the glossary where the particular term is explained.

Safety Instructions

Note the following points for your own safety:

- The training apparatus must be set up on a suitable, stable surface.
- Before the first use and also after approx. 6 operating days, the joints are to be checked for firmness.
- In order to avoid injuries as a result of incorrect loading or excessive loading, the training apparatus must only be used in accordance with the instructions.
- It is not recommended that the apparatus be set up in damp spaces, because this will in time lead to rusting.
- At regular intervals, check that the training apparatus is in correct working order and that it is in proper condition.
- The safety / technical checks are among the duties of the operator and must be carried out regularly and properly.
- Defective and damaged parts are to be replaced immediately.

Only use original KETTLER replacement parts.

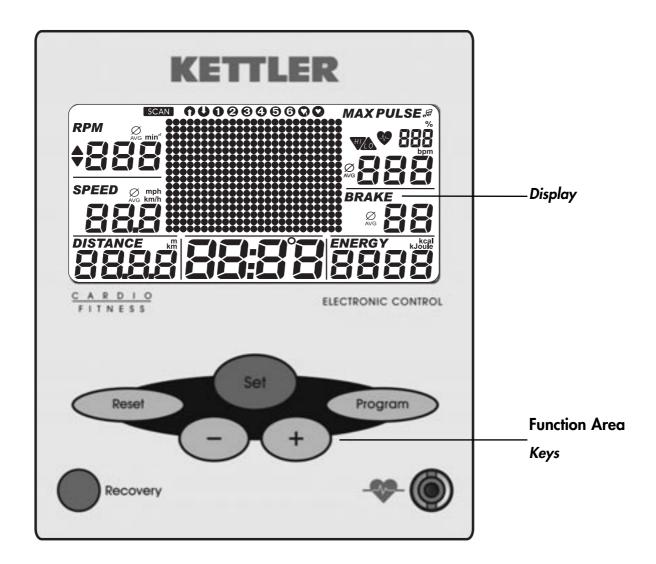
- The apparatus must not be used until it has been repaired.
- The safety level of the apparatus can only be maintained if it is regularly checked for damage and wear.

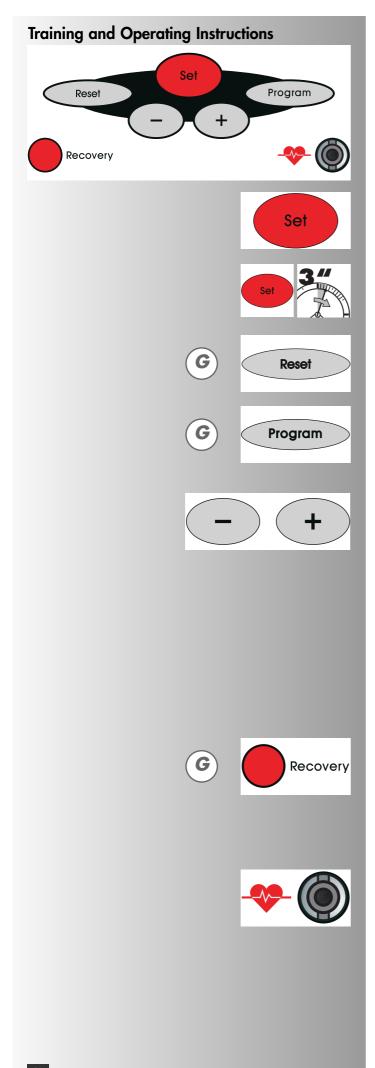
For your safety:

 Before taking up training, have your family doctor advise you on whether or not you are in suitable health for training with this apparatus. The medical findings should be the basis for the structuring of your training programme. Incorrect or excessive training can lead to damage to health.

Short Description

The computer has a function area with keys and a display with changeable symbols and graphics.





Function Area

The six keys are briefly explained below.

Their more detailed utilisation is explained in the individual chapters. In these descriptions the names of the function keys are also used as follows:

Set (press quickly)

This function key calls up the inputs. The preset data settings are adopted.

Set (press for longer)

The "individual settings" in all the segments of the display are called up.

Reset

This function key deletes the current display for a new start.

Program

This function key selects the different programmes.

Press again: > next programme.

Press for longer: > Programme passage

Minus - / Plus + Keys

These function keys change the values in the different menus prior to the training and adjust the exertion (levels) during the training.

Continue "Plus"

Or Back "Minus"

Press for longer > quicker change

"Plus" and "Minus" are pressed together:

Exertion jumps up
Programmes jumps up
Origin
Input Value jumps up
Off

Recovery

This function key starts the recovery pulse function.

Comment:

Further key functions are explained at the relevant places in the operating instructions.

Pulse Measurement

The pulse measurement can be carried out in 3 places:

- Ear Clip
 The plug is inserted into the socket and the hand pulse is switched off
- Hand Pulse
 The connector is plugged in on the rear side of the display
- 3. Cardio Pulse Set
 >See Instructions for Cardio Pulse Set

SM3200-8







Display

The display provides information about the various functions and the settings modes selected.

Programmes: Count up / Count down

The programmes are differentiated through their numbering systems.

Programmes:

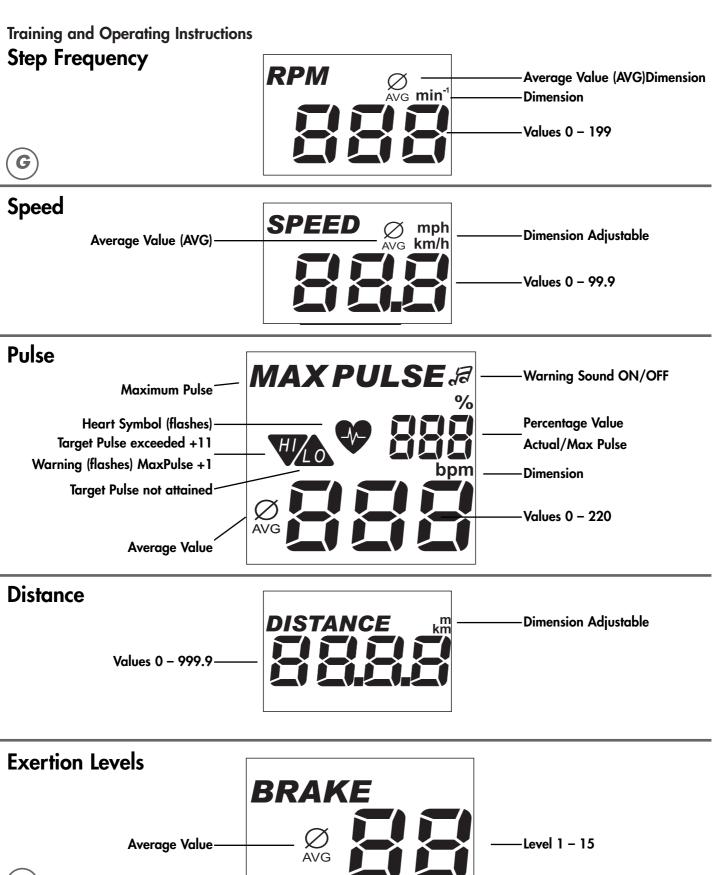
Exertions over time or distance

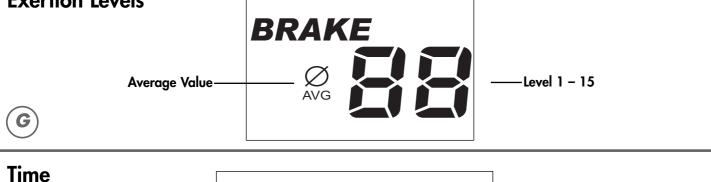
Pre-set profiles 1-6

Pulse-driven programmes: HRC1/HRC2

Target pulse over time

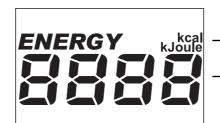
Two programmes which regulate exertion through the pre-set pulse value.







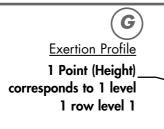
Energy Consumption



—Dimension Adjustable

-Values 0 -9999

Points





1 column corresponds to 1 minute or 200 meters or 0.1 mile

25 Columns

Quick Start (For Familiarisation)

Start of Training

Without special settings

- Welcome display on switch-on Display of total kilometres
- After 3 seconds: "Count Up" Display
 All values show 0
 Brake shows level 1
- Start of Training
- Display
 Speed, distance, energy, time, revolutions and exertion level and pulse (if pulse registration is active)

Changing the exertion during the training:

- "Plus" *display* value in the "Brake" window is increased in one-stage steps.
- "Minus" reduces it in one-stage steps.

Continuation of the training with this setting. Interim exertion changes are possible at all times.

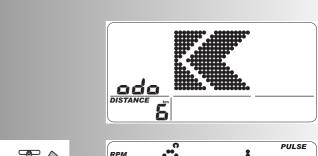
End of Training

- Average Values (Ø): Display
 Speed, revolutions, exertion level and pulse (if pulse registration is active)
- Total Values
 Distance, energy and time

Snooze Mode

4 minutes after the end of training the machine switches into the snooze mode.

Press any key and display restarts with "Count Up".











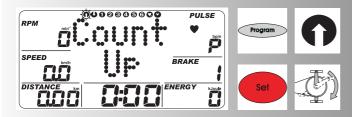


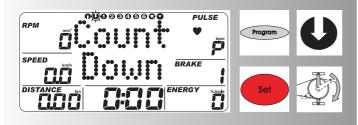


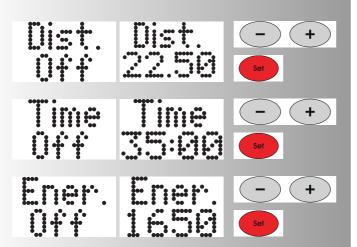












Training

The computer is supplied with 10 training programmes. They are clearly differentiated in their exertion intensity and stamina.

1. Training using exertion settings

a)Manual Exertion Settings

- (PROGRAM) "Count Up"
- (PROGRAM) "Count Down"

b)Exertion Profiles

• (PROGRAMS) "1" - "6"

2. Training Using Pulse Settings

Manual Pulse Settings

- (PROGRAM) "HRC1 Count Up"
- (PROGRAM) "HRC2 Count Down"

1. Training Using Exertion Settings

a)Manual Exertion Settings

(PROGRAM) "Count Up"

Press "PROGRAM": Display "Count Up"
 Start the training. All values count upwards.

Or

- Press "SET": Settings Range
- "Plus" or "Minus": Change the exertion. Start of training. All values count upwards.
 (PROGRAM) "Count Down"
- Press "PROGRAM" : Display "Count Down"

The programme counts downwards from > 0 to the pre-set values. When no input occurs, the training starts the "Count Up" Programme.

To start the programme at least one input for time, energy or distance must be input.

Press "SET": Settings Range

Settings Range

Display: Distance Setting "Dist."

Distance Setting

Input with "Plus" or "Minus" values (e.g. 22,50)
 Confirm with "SET".

Display: Next Menu Time Setting "Time"

Time Setting

Input with "Plus" or "Minus" values (e.g. 35:00)
 Confirm with "SET".

Display: Next Menu Energy Settings "Ener."

Energy Setting

Input with "Plus" or "Minus" values (e.g. 1650)
 Confirm with "SET".

Display: Next Menu Input Age - "Age"

Input Age

• Input with "Plus" or "Minus" values (e.g. 34) Confirm with "SET".

Display: Next Menu Target Pulse "Fat 65%"

Target pulse (age-related)

- Make selection with "Plus" or "Minus"
- Fat burning 65 %, Fitness 75 %, Manual 40 -90%
 - Confirm with "SET" (e.g. Manual 40 -90 %)
- Enter values with "Plus" or "Minus" (e.g. Manual 83)
 - Confirm with "SET" (end of default mode)

 Display: readiness for training with all defaults

or

target pulse (40 - 200)

Deselect age entry with "Plus" or "Minus". Display: "AGE OFF"
 Confirm with "SET".

Display: next default "Pulse Off" (target pulse)

Enter value with "Plus" or "Minus" (e.g. 146)
 Confirm with "SET" (end of default mode)
 Display: readiness for training with all defaults

Comment

An overview of all settings options in the programmes is summarised in the tables. (See page 28)

Training Programme is now ready

Exertion

 Change exertion with "Plus" or "Minus" Start of Training

b) Exertion Profiles (PROGRAM) "1" - "6"

All profiles are selected by pressing "PROGRAM" e.g. *Display* "1"

Fitness Newcomer I. Exertion Level 1-4. 27 Min Press "SET": Settings Range. For settings see table on page 28

Start of Training

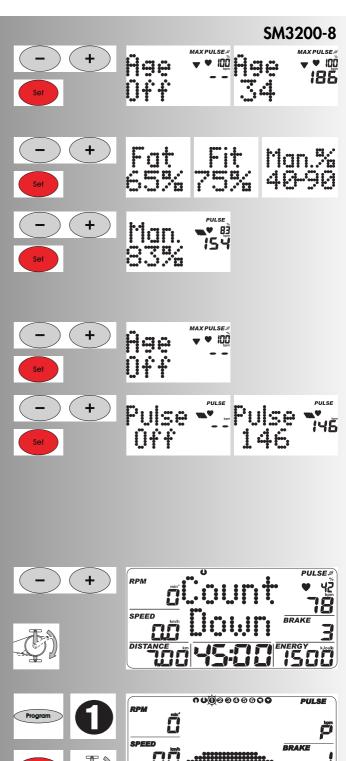
Press "PROGRAM" until *Display* "2"
 Fitness Newcomer II. Exertion Levels 1-5. 30

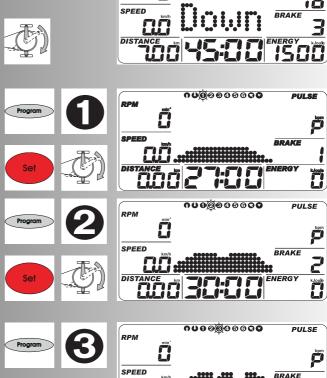
Press "SET": Settings Range. For settings see table on page 28

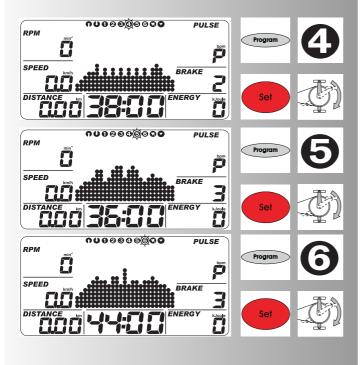
Start of Training

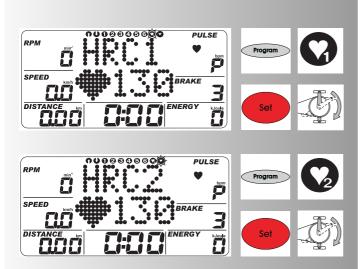
Press "PROGRAM" until *Display* "3"
 Advanced I. Exertion Levels 1-6. 36 Minutes.

 Press "SET": Settings Range. For settings see table on page 28









Start of Training

Press "PROGRAM" until *Display* "4"
 Advanced I. Exertion Levels 1-7. 38 Minutes.
 Press "SET": Settings Range. For settings see table on page 28

Start of Training

Press "PROGRAM" until *Display* "5"
 Professional I. Exertion Levels 1-9. 36 Minutes.
 Press "SET": Settings Range. For settings see table on page 28

Start of Training

Press "PROGRAM" until: *Display* "6"
 Professional I. Exertion Levels 1-10. 36 Minutes.

 Press "SET": Settings Range. For settings see table on page 28

Comment

For times over 25 minutes the programme view of the profile is displayed in 25 condensed columns.

2. Training Using Pulse Settings

Manual Pulse Settings

(PROGRAM) "HRC1 Count Up"

- Press "PROGRAM" until Display "HRC1" (Count Up)
- Press "SET": Settings Range
 Start the training. All values count upwards.
 The exertion is automatically increased until the target pulse is achieved (e.g. 130)

 (PROGRAM) "HRC2 Count Down"
- Press "PROGRAM" until Display "HRC2" (Count Down)
- Press "SET": Settings Range
 The inputs and adjustment options are the same as the program point "Count Down".
 Start of Training

The exertion is automatically increased until the target pulse is achieved (e.g. 130)

Comment

KETTLER recommends the pulse measurement to be carried out with either ear clip or cardio pulse set in the HRC Programmes.

Move as far as possible at a constant RPM rate as otherwise the pulse adjustment is negatively influenced.

Settings Options: (See table on page 28) In HRC programs a power adjustment takes place for deviations of +/- 6 heartbeats.

Training Functions

Change of Display during Training

Manual Adjustment

"PROGRAM" changes the display in the points field in the following sequence:

Time / RPM / Speed / Dist. / Pulse / Brake / Ener. / (Profile) / Time ...

Automatic Adjustment: (SCAN)

Press the "PROGRAM" key for longer until the "SCAN" Symbol appears in the display. The display changes at a rate of 5 seconds. The SCAN function is ended by pressing again on the "PROGRAM" key, Recovery Function or Training Interruption.

Training Interruption/End

If there are less than 10 pedal revolutions/minute or "RECOVERY" is pressed, the electronics recognise a training interruption. The training data achieved is displayed. Speed, exertion, revolutions and pulse are displayed as average values with the \varnothing -symbol with a "Plus" or "Minus" change in the current display, e.g. rest values. The training data is displayed for 4 minutes. If you do not press any keys during this period and do not train, the electronics switch into the snooze mode with the room temperature is displayed.

Training Resumption

If training is continued within 4 minutes the last values are counted further or downwards.

RECOVERY - Function

Recovery Pulse Measurement

At the end of training press "RECOVERY".

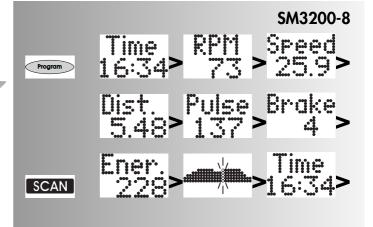
The electronics measure your pulse for the last 60 seconds retrospectively.

If you press "RECOVERY", the current pulse value is saved under "RPM" and the pulse value is saved after 60 seconds under "SPEED". "DISTANCE" displays the difference between the two values. This results in a fitness mark (Example F 2.6). The display stops after 20 seconds.

"RECOVERY" or "RESET" interrupts the function

Comment

If no pulse is recorded at the start or end of the time period, an error message is displayed.















Inputs and Functions

Training / At Rest	n	U	0	2	છ	4	6	6	Ø	Q
Exertion	~	~							*	*
⊕ ♦ ♦ Profile			/	/	~	/	/	>		
Time		~								~
Energy		~								/
Oistance		~								/
Max. Pulse		~	~	~	~	~	~	~	~	~
r or										
Fat Burn 65% or Fitness 75% or Manual 40-90%		~							~	~
► Target Pulse 40-200	/	~							/	~
Time/Distance Switch			~	~	/	~	~	>		
Recovery	/	~	/	/	/	/	~	~	/	/

^{*} Pre-Selection Exertion Level 1-10 prior to start of training

Programme Switch Time / Distance



For load profiles 1-6 only

Set with "Minus" or "Plus" (time or distance mode)
 Confirm with "SET".

 Display: next menu "Age" (age entry)

The distance per column amounts to 0.2 km (0.1 miles)

Display for pulse events

				0	Overrun			
	Value / Input		%	HI	10	MAX	A	
Maximum Pul AGE Off	lse 80-210		~	+1		+1	+1	
Target Pulse	Fat Burn	65%						
OU	Fitness	<i>75</i> %	~	+11	-11*			
OU	Manual	75% 40-90%						
Target Pulse	40-200			+11	-11*			

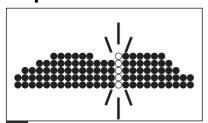
Comment: Only appears when the target pulse is achieved once.

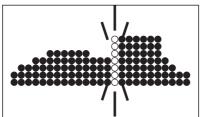
If the training pulse input is not achieved (-11 beats) the "LO" symbol is displayed.

If it is exceeded (+11 beats) the "HI" symbol is displayed.

If the maximum pulse is exceeded the "HI" arrow flashes and the text "MAX" is displayed.

Adjustment of the Exertion Profile





If the exertion is adjusted during the course of the programme, the change works from the flashing column on the right. The columns on the left show the output data achieved and remain unchanged.

Individual Settings

Proceed according to the diagram opposite: Press "Reset":

Display: All Segments

Now press "SET" for longer: Menu: Individual Set-

tings

Display: Reset + / -

1. Deletion of the total kilometres

Press "Plus" and "Minus" are together **Function:** Total kilometres are deleted Press "Set": Jump to the next setting

Display: Energ.

2. Display of the energy consumption in kJoule / kCalorie

Press "Plus" or "Minus"

Function: Select the energy consumption display Press "Set": Selected unit is adopted and it jumps to

the next setting.

Display: Scale

3. Display of the unit in kilometres/miles

Press "Plus" or "Minus":

Function: Select kilometre or mile display

Press "Set": Selected unit is adopted and it jumps to

the next setting.

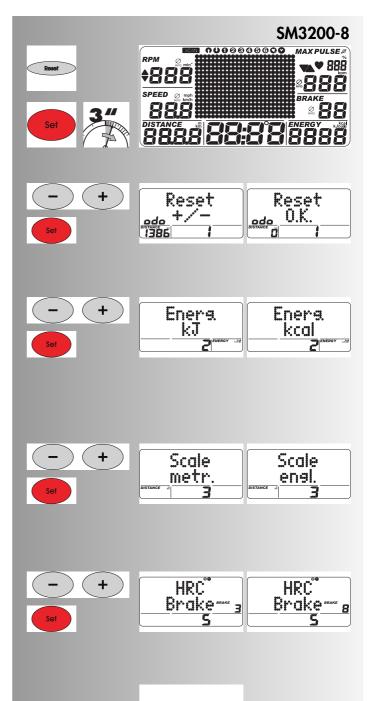
Display: Exertion Settings in the HRC-Programmes.

4 Exertion Settings in the HRC-Programmes.

Press "Plus" or "Minus":

Function: The initial exertion in the HRC Programmes can be specified here from levels 1 to 10.

Press "Set": The displayed level is adopted and "New Start" appears on the display.



New Start

Training and Operating Instructions General Instructions

System Sounds

Switching On

On switch-on during the segment test a small sound is emitted.

Programme End

A programme end (profile programme, countdown) is indicated by a short sound.

Maximum Pulse Overrun

If the preset maximum pulse is exceeded by one pulse beat then 2 short sounds are emitted every 5 seconds.

Error Display

In the case of errors, e.g. a recovery can not be carried out without a pulse signal, then 3 short sounds are emitted.

Switch On/Off Automatic Scan Function

When activating and deactivating the automatic Scan Function, a short sound is emitted.

Recovery

In the function the oscillating weight is automatically slowed down. Further training is unsuitable.

Calculation of the fitness mark:

Mark =
$$6.0 - \left(\frac{10 \times (P1-P2)}{P1}\right)^2$$

P1 Exertion Pulse, P2 = Recovery Pulse F1.0 = Very Good, F6.0 = Unsatisfactory

Time/Distance Switch

In the settings of programmes 1-6 the column profile of time-mode (1 minute) can be switched to distance mode (200 metres).

Profile Display during Training

At the start the first column flashes. According to the flow it moves further to the right.

And in profiles over 25 minutes it reaches the middle (column 13). Then the profile moves from the right to the left. If the profile end appears in the last column (column 25), the flashing column moves further to the right until the end of the programme.

Average Calculation

The average value is calculated per training unit.

Instructions for Pulse Measurement

The pulse calculation starts when the heart flashes in the display in rhythm with your pulse rate.

With Ear Clip

The pulse sensor works with an infrared light and measures the translucency changes of your skin, which are caused by your pulse beat. Before you tuck the pulse sensor onto your earlobe, rub it 10 times forcefully to increase the blood circulation.

Avoid interference impulses.

- Fasten the ear clip carefully onto your ear lobe and find the most opportune moment for its removal (heart symbol flashes without interruption).
- Do not train directly under strong light e.g. neon lights, halogen lights, spotlights, beams or sunlight.
- Totally remove all vibrations and shaking of the ear sensor including cables. Always secure the cable with clips to your clothing or even better to a sweatband.

With Hand Pulse

The extra-low voltage generated through the contraction of the heart is recorded through the hand-sensors and assessed by the electronics.

- Always grip the contact areas with both hands.
- Avoid gripping jerkily.
- Hold the hands calmly and avoid contractions and rubbing on the contact areas.

With Chest Band

Observe the relevant instructions.

Comment

Only **one** way of pulse measurement is possible either with ear clip **or** hand pulse **or** chest band. If there is no ear clip or plug receiver in the pulse socket then the hand pulse measurement is activated. If there is contact between the ear clip/plug receiver in the pulse socket, then the hand pulse measurement is automatically deactivated. It is **not** necessary to remove the plug of the hand pulse sensors.

Faults in the Training Computer

Press the Reset Key

Training instruction

Cross training is a very effective whole-body workout, which stresses all large muscle groups, and simultaneously trains the cardiovascular system in an ideal manner and promotes the fat metabolism. The innovative elliptical sequence of movements of the treads strengthens the leg and gluteal muscles especially joint-sparing, the training of the upper part of the body coupled with the legwork mainly stresses the arm, shoulder, pectoral and dorsal muscles.

Before starting the training you should read the following notes carefully!

The above and following notes on training are recommended for persons without cardiovascular problems only.

Notes on training

Workout with the cross-trainer is to be designed methodically according to the principles of stamina training. Stamina training mainly causes changes and adaptations in the cardiovascular system. This includes the decrease of the rest pulse frequency and the pulse under load. Thus the heart disposes of more time for filling the ventricles and blood flow in the cardiac musculature (through the

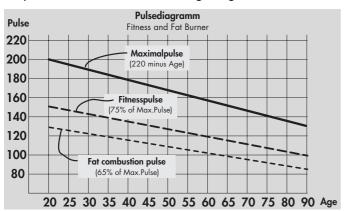
coronary vessels). Furthermore, depth of breathing and amount of air inspired are increased (vital capacity). Further positive changes take place in the metabolic system. To achieve these positive changes the training must be planned according to certain guidelines.

Planning and control of your training

The basis for the planning of the training is your current physical condition. With an exercise tolerance test your general practitioner can diagnose your personal capability, which represents the basis for your planning of the training. If you did not have an exercise tolerance test executed, high training loads or overloading, respectively, have to be avoided in any case. You should remember the following principle for your planning: stamina training is controlled via the scope of load as well as via the height / intensity of load.

About load intensity

Pulse under load: the optimal load intensity is achieved at 65–75 % (comp. diagram) of the individual cardiovascular performance. This value changes age-related.



For the cross trainer, intensity is on the one hand controlled via the speed of movement and on the other hand via the resistance of the magnet braking system. With increasing speed of movement, the physical load is increased as well. It also increases, when the braking resistance is increased. As a beginner avoid a too high speed or training with a too high braking resistance, since in that the recommended pulse frequency range can be quickly exceeded. During the training check on the basis of your pulse frequency, whether you work out in your intensity range according to the diagrams shown.

About the scope of load

Beginners increase the scope of load of their training only gradually. The first training units should be relatively short and in intervals. Sports medicine considers the following load factors as fitness-positive:

Training frequency	Duration of training
daily	10 minutes
2-3 times a week	20-30 minutes
1-2 times a week	30-60 minutes

Beginners should not start with training units of 30-60 minutes.

The beginner training can be planned as follows within the first 4 weeks:

	0//10200					
Training frequency	Extent of training session					
	1st week					
3 times a week	2 minutes of training Break of 1 minute for physical exercises 2 minutes of training Break of 1 minute for physical exercises 2 minutes of training					
2nd week						
3 times a week	3 minutes of training Break of 1 minute for physical exercises 3 minutes of training Break of 1 minute for physical exercises 2 minutes of training					
	3rd week					
3 times a week	4 minutes of training Break of 1 minute for physical exercises 4 minutes of training Break of 1 minute for physical exercises 3 minutes of training					
	4th week					
3 times a week	5 minutes of training Break of 1 minute for physical exercises 4 minutes of training Break of 1 minute for physical exercises 4 minutes of training					

Before and after each training unit, approx. 5 minutes of gymnastics serve warming up or cooling down, respectively. Between two training units there should be a day off (no training), when in the later course you prefer the 3 times a week training of 20-30 minutes. Otherwise there are no arguments against a daily 10 minute training. Beside the individual planning of your stamina training you can fall back on the training programs integrated in the training computer of the cross trainer (comp. page 9 cont).

Sequence of movements

The sequence of movements of the cross training is already provided by the elliptic rotation of the treads and the position of the handle-bars. Despite of that, the following should be observed:

- Before the training, always check correct installation and standing of the equipment.
- When getting onto the equipment, one tread must be in the lowest and one in the highest position. Grab the handle-bars with both hands and mount the lower treat first. When getting off the equipment, step off the upper tread first.
- Set the treads to the optimal distance to the handle-bars for you; in that observe sufficient legroom to the handle-bars.
- Execute your training with respective sports shoes and observe secure standing on the treads.
- Do not work out with your hands off the handles. Grab the frame between the moving handle-bars, if you only want to work out the lower part of your body.
- Mind a uniform, round sequence of movements.

■ During the training, vary between forward and backward movements of the treads to work out the leg and gluteal muscles in different manners.

With regular training you can increase your stamina, your power and thus also your well-being. The training success is optimized by a health-conscious way of living, which is dominated by a well-balanced, wholesome nutrition.

Glossary

Recovery

Recovery pulse measurement at the end of the training. From start and end pulse of one minute the deviation and a fitness grade are determined. With the same training, the improvement of this grade is a measure for fitness increase.

Reset

Deletion of the display contents and restart of the display.

Programs

Possibilities for training, which require manual or program-determined loads or target pulses.

Profiles

Change of loads over time or distance represented in the points field.

Dimension

Units for display of km/h or mph, kjoule or kcal

Energy

Calculates the energy turnover of the body

Control

The electronic equipment controls the load or the pulse for manually entered or default values.

Points field

Display section with 25×16 points for representation of load and pulse profiles as well as text and value display.

Pulse

Recording of the heartbeat per minute

MaxPulse(s)

Calculated value from 220 minus years of age

Target pulse

Manual or program-determined pulse value, which is to be calculated.

Fat burning pulse

Calculated value of: 65 % MaxPuls

Fitness pulse

Calculated value of: 75 % MaxPuls

Manual

Calculated value of: 40 - 90 % MaxPuls

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Here an entry for calculation of the maximum pulse.

HI symbol

With "HI" displayed, a target pulse is too high by 11 beats. With HI blinking, the maximum pulse is exceeded.

LO symbol

With "LO" displayed, a target pulse is too low by 11 beats.

Menu

Display, in which values are to be entered or selected.

Glossary

Collection of attempts for explanation.

Deistungstabelle **Tableau de performances** Performance table Prestatietabel □ Tabella delle prestazioni **Tabla de rendimiento** Tabela wyników **D** Datum P 2 Belastungs-**Ruhepuls** P 1 Zeit **Entfernung Energie-Fitnessnote** Belastungspuls **Erholungspuls** stufe (min.) (km) verbrauch Slope Distance Energy-Restpulse Stress pulse Recovery pulse Time (min) Fitness Mark **GB** Date (km) consumption F Date Pouls en Pouls de Distance Dépense Pouls au repos Angle Temps Note charge récupération d'inclination (min.) (km) d'énergie Belastings-Ontspannings-Calorieen-NL Datum Rustpols Hellingshoek Tijd (min.) Afstand Waard. cijfer pols pols (min.) (km) verbruik E Fecha Distancia Pulso Pulso Escalón de Consumo Pulso en reposo Tiempo Nota bajo esfuerzo de recuperación de energía carga (min.) (km) ① Data Polso Polso Fase dicarico Percorso Consumo Voto Polso riposo Tempo affaticamento (min.) (km) ripresa energetico PL Data tętno przy tętno w stopień Czas odległość Zużycie Ocena tetno fazie odpoczynku obciążenia sprawności spoczynkowe obciążeniu (min.) (km) energii