

TCORX
FITNESS IN MOTION

INSTRUCTION



TRX 90 S



Rev : 00

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IMPORTANT ELECTRICAL INSTRUCTIONS

WARNING!

NEVER use a ground fault circuit interrupt (GFCI) wall outlet with this treadmill. As with any appliance with a large motor, the GFCI will trip often. Route the power cord away from any moving part of the treadmill including the elevation mechanism and transport wheels.

NEVER remove any cover without first disconnecting AC power. If voltage varies by ten percent (10%) or more, the performance of your treadmill may be affected. Such conditions are not covered under your warranty. If you suspect the voltage is low, contact your local power company or a licensed electrician for proper testing.

NEVER expose this treadmill to rain or moisture. This product is **NOT** designed for use outdoors, near a pool or spa, or in any other high humidity environment. The operating temperature specification is 40 to 120 degrees Fahrenheit, and humidity is 95% non-condensing (no water drops forming on surfaces).

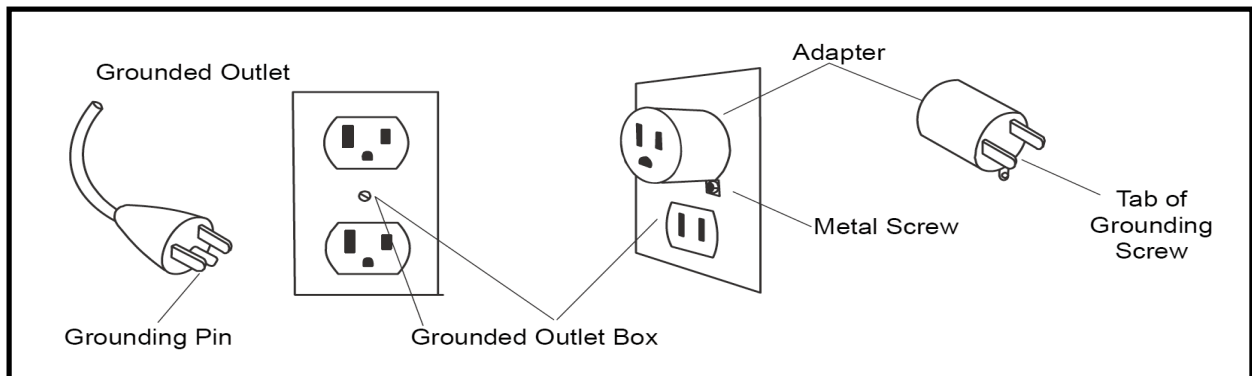
Circuit Breakers: Some circuit breakers used in homes are not rated for high inrush currents that can occur when a treadmill is first turned on or even during use. If your treadmill is tripping the house circuit breaker (even though it is the proper current rating) but the circuit breaker on the treadmill itself does not trip, you will need to replace the home breaker with a high inrush type. This is not a warranty defect. This is a condition we as a manufacture have no ability to control. This part is available through most electrical supply stores. Examples: Grainger part # 1D237, or available online at www.squared.com part # QO120HM.

GROUNDING INSTRUCTIONS

This product must be grounded. If the treadmill should malfunction or breakdown, grounding provides a path of least resistance for electric current, reducing the risk of electric shock. This product is equipped with a cord having an equipment-grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

DANGER - Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or serviceman if you are in doubt as to whether the product is properly grounded. Do not modify the plug provided with the product if it will not fit the outlet; have a proper outlet installed by a qualified electrician.

This product is for use on a nominal 230-volt circuit, and has a grounding plug that looks like the plug illustrated below. A temporary adapter that looks like the adapter illustrated below may be used to connect this plug to a 2-pole receptacle as shown below if a properly grounded outlet is not available. The temporary adapter should be used only until a properly grounded outlet, (shown below) can be installed by a qualified electrician. The green colored rigid ear-lug, or the like, extending from the adapter, must be connected to a permanent ground such as a properly grounded outlet box cover. Whenever the adapter is used, it must be held in place by a metal screw.



IMPORTANT OPERATION INSTRUCTIONS

- **NEVER** operate this treadmill without reading and completely understanding the results of any operational change you request from the computer.
- Understand that changes in speed and incline do not occur immediately. Set your desired work level on the computer console and release the adjustment key. The computer will obey the command gradually.
- **NEVER** use your treadmill during an electrical storm. Surges may occur in your household power supply that could damage treadmill components. Unplug the treadmill during an electrical storm as a precaution.
- Use caution while participating in other activities while walking on your treadmill; such as watching television, reading, etc. These distractions may cause you to lose balance which may result in serious injury.
- Do not use excessive pressure on console control keys. They are precision set to function properly with little finger pressure.

SAFETY TETHER CORD

- A safety tether cord is provided with this unit. It is a simple magnetic design that should be used at all times. It is for your safety should you fall or move too far back on the tread-belt. Pulling this safety tether cord will stop tread-belt movement. To Use:
 1. Place the magnet into position on the round metal portion of the console control head. Your treadmill will not start and operate without this. Removing the magnet also secures the treadmill from unauthorized use.
 2. Fasten the plastic clip onto your clothing securely to assure good holding power. Note: The magnet has strong enough power to minimize accidental, unexpected stopping. The clip should be attached securely to make certain it does not come off. Be familiar with its function and limitations. The treadmill will stop, depending on speed, with a one to two step coast anytime the magnet is pulled off the console. Use the Stop / Pause switch in normal operation.

ASSEMBLY INSTRUCTIONS

!!ATTENTION: IMPORTANT UNPACKING INSTRUCTIONS. PLEASE READ BEFORE UNPACKING YOUR FOLDING TREADMILL!!

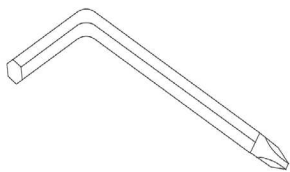
Serious injury could occur if this folding treadmill is not unpacked properly. There is a Velcro strap installed around the treadmill base that prevents the treadmill from unfolding accidentally during shipping. If this strap is not removed properly the treadmill could spring open unexpectedly and cause injury if someone is standing near the treadmill when the strap is removed.

To ensure your personal safety during removal of the shipping strap please make sure the treadmill is positioned flat on the ground, in the orientation it would be in if you were using the treadmill. Do not turn the treadmill up on its side while removing the shipping strap. This could cause the treadmill's folding mechanism to spring open. If the end of the Velcro strap (that you need to grab to remove it) happens to be under the treadmill deck, reach under the deck to grab it, but do not tilt the treadmill up to gain access to the strap end.

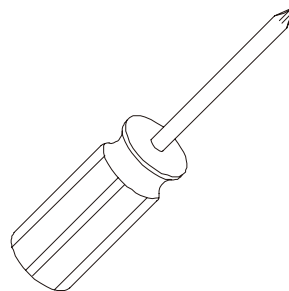
Cut the banding straps with a short box cutter (razor knife); separate the carton from the one underneath it by prying up on the staples (if applicable). Pull the carton over the treadmill parts and locate the hardware pack. The hardware pack is separated into five sections; one section containing tools and four sections labeled steps 1-4 which contain the hardware needed for assembly of each step. The assembly steps below are numbered one through four and correspond to the hardware in the numbered sections of the hardware pack. Remove only the hardware for the step you are currently assembling to avoid confusion and mix ups.

Then remove the treadmill from the carton and lay it on a level surface.

ASSEMBLY TOOLS



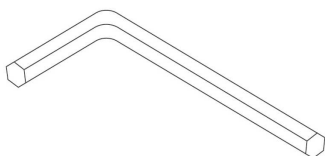
#96. Combination M5 Allen Wrench & Phillips Head Screw Driver



#122. Phillips Head Screw Driver



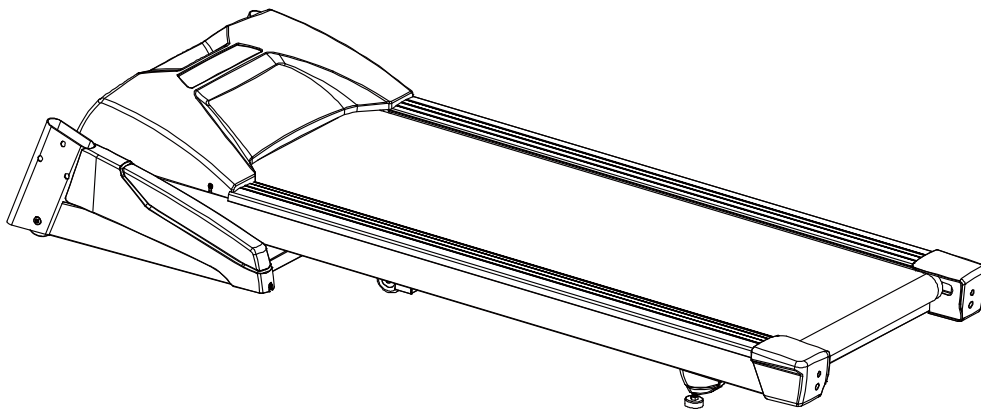
#58. Deck/Belt Lubricant



#97. M6 Allen Wrench



#33. Safety Key



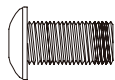
1 UPRIGHT TUBE ASSEMBLY

1. Take the Left and Right upright tubes (part numbers **5 & 4**) and slide the upright covers (**99 & 100** right) onto the tubes (observe the cover orientation is correct). Connect the Middle Console Cable (**38**) that exits from the bottom of the right upright tube with the lower Console Cable (**39**). Insert the Left and Right (**5 & 4**) Uprights into the Left and Right Receiving Tubes (holes are on the outside of the tubes). Be careful not to pinch the wire when installing the upright.

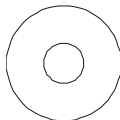
NOTE: Partially tighten all bolts in this Step. This will allow for easier console assembly.

2. Attach the tubes with three Button Head Socket Bolts (**93**) from each side and two Button Head Socket Bolts (**93**) and two Curved Washers (**94**) from the front. Partially tighten using the Combination M5 Allen Wrench & Phillips Head Screw Driver (**96**)

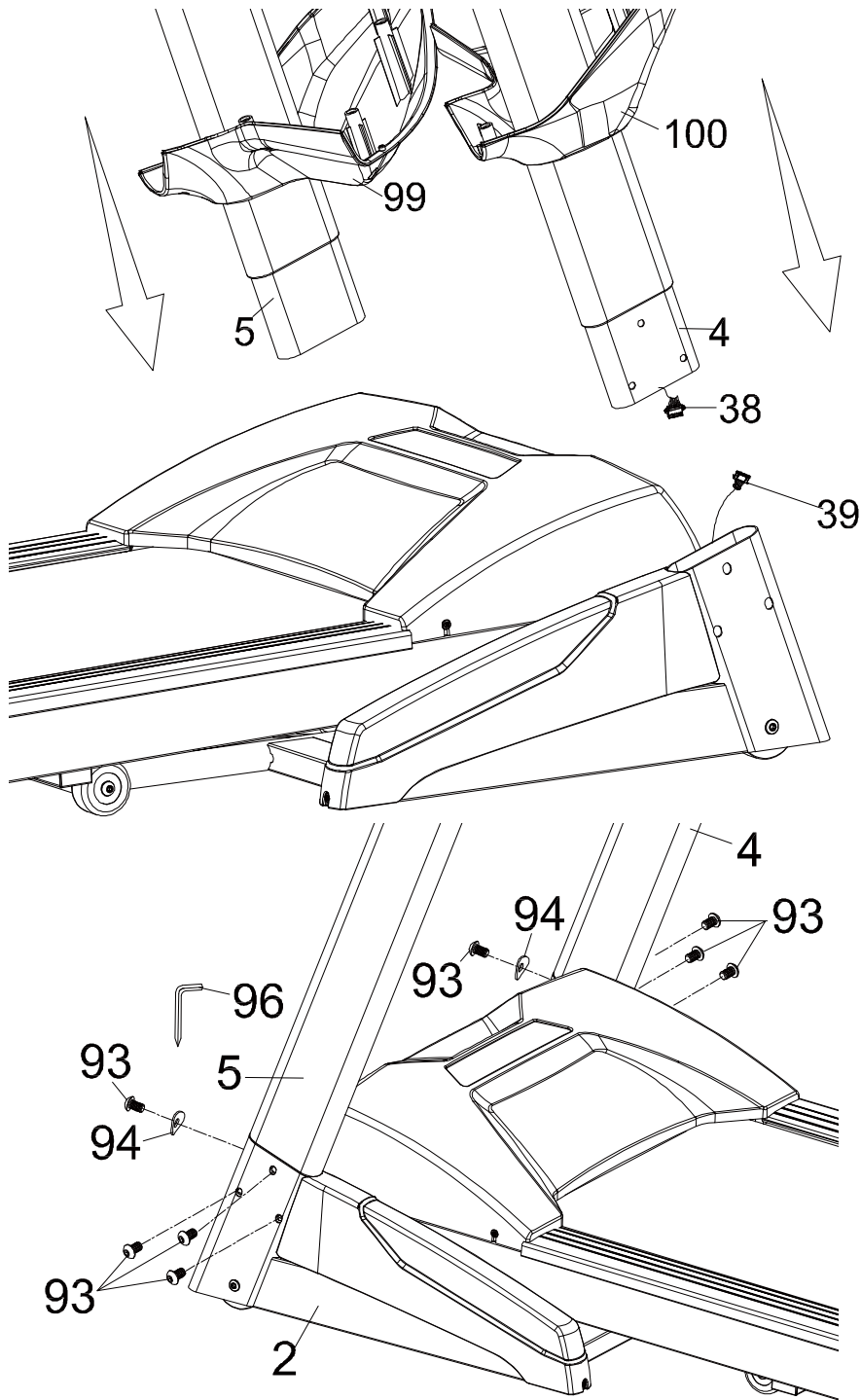
HARDWARE

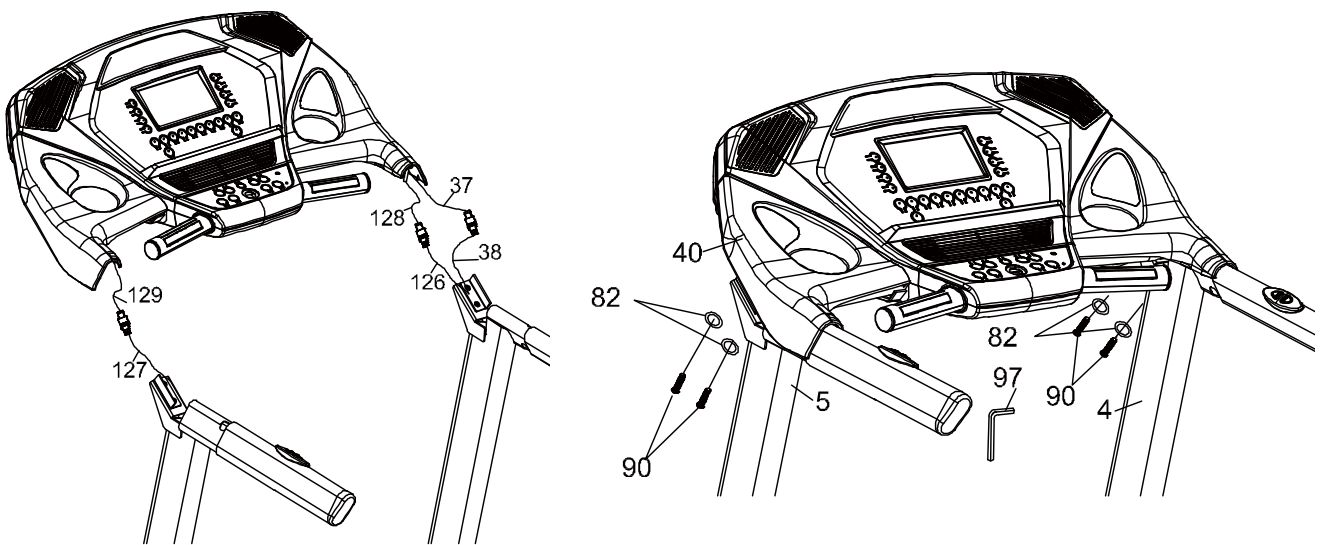


#93. 5/16" x 15mm
Button Head Socket Bolt
(8 pcs)



#94. 5/16" x 19 x 1.5T
Curved Washer (2 pcs)

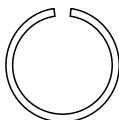




2 CONSOLE ASSEMBLY

1. Connect the Speed Adjustment Switch Cable (126) to the Speed Cable (Upper)(128).
2. Connect the Incline Adjustment Switch Cable (127) to the Incline Cable (Upper)(129). Connect the Computer Cable (Middle)(38) to the Computer Cable (Upper)(37).
3. Insert Console Assembly (40) into right and left Uprights (4) and (5) and secure with four Button Head Socket Bolts (90) and four Split Washers (82) using the M6 Allen Wrench (97). Now go back and completely tighten the 8 bolts (93) inserted in Step 1 that join the upright tubes (4 & 5) to the main frame.

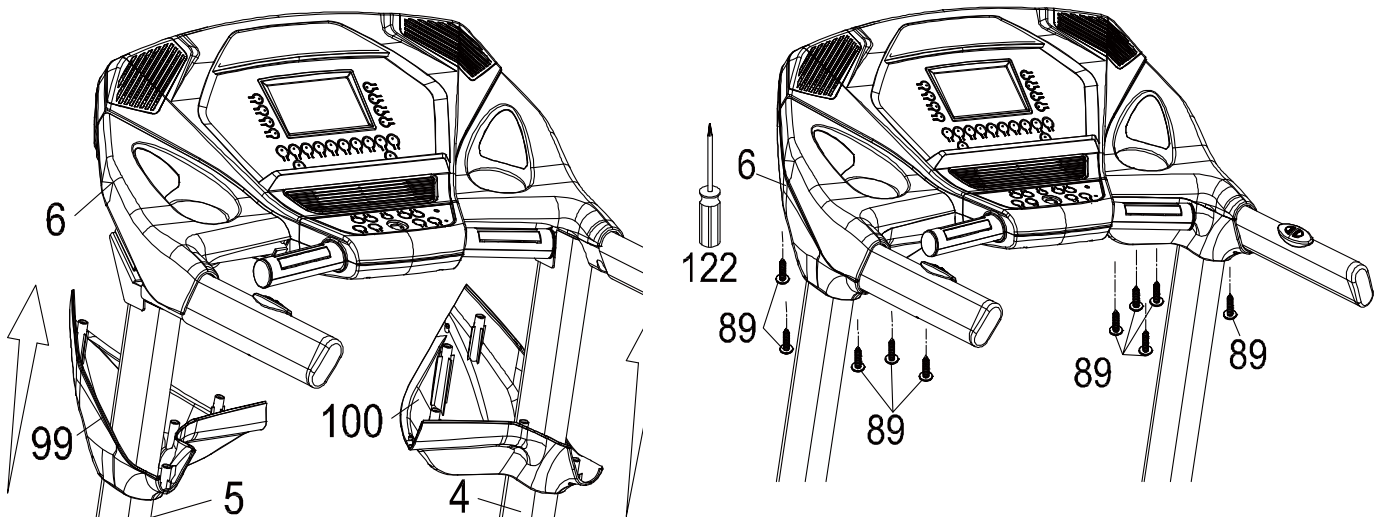
HARDWARE



#82. 3/8" x 2.0T
Split Washer (4 pcs)



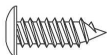
#90. 3/8" x 1-3/4"
Button Head Socket Bolt
(4 pcs)



3 PLASTIC PARTS ASSEMBLY

1. Attach the lower half of the bottle holder (Right - **100**) and (Left - **99**) to the right and left Uprights (**4**) and (**5**) and Console Support(**6**) with ten Sheet Metal Screws (**89**) using the Phillips Head Screw Driver (**122**).

HARDWARE



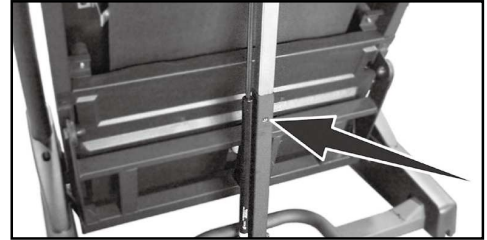
#89. 3.5 x 12mm
Sheet Metal Screw (10 pcs)

FOLDING INSTRUCTIONS

Do not attempt to move the unit unless it is in the folded and locked position. Be sure the power cord is secured to avoid possible damage. Use both handrails to maneuver the unit to the desired position.

■ TO FOLD THE TREADMILL

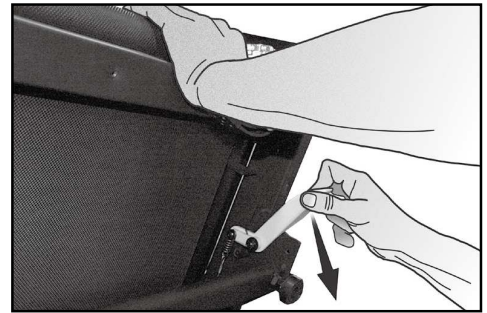
Make certain the treadmill is at minimum incline. Lift the treadmill running deck until it is secured by the locking telescoping tube assembly in center back of base.



■ TO UNFOLD THE TREADMILL

Apply slight forward pressure* on the treadmill running deck with one hand. Pull down on the unlocking lever and slowly lower the running deck to the floor. The deck will lower unassisted when it reaches about waist high.

*At the rear roller area to relieve pressure on the locking system.



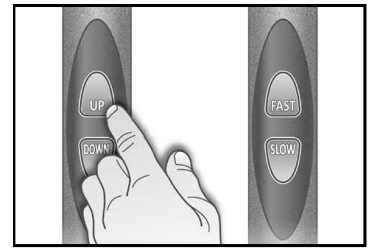
TRANSPORT

The treadmill is equipped with four transport wheels that are engaged when the treadmill is folded. After folding simply roll the treadmill away.

FEATURES

HANDRAIL ADJUSTMENTS

The treadmill allows you to make speed and incline changes on the side handrails. You can also choose to turn these off if you frequently hold on to these rails. This is achieved by pressing the disable button on the right side of the lower portion of the console.



QUICK SPEED & INCLINE BUTTONS

You are able to set your speed and incline settings quickly by using the quick keys on the console. Just press either Speed or Incline, then select either 1 or 2 digits and the treadmill will automatically adjust to that value. This saves time because you don't have to press and hold or hold a button down until reaching the desired value. The maximum value you may input for speed is 9.9 mph or kmph and incline 9.5%.



Examples: Press the Quick Incline button, then 1, 0 = Incline Level 1.0

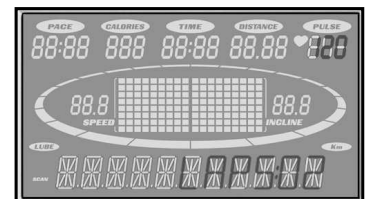
Press the Quick Incline button, then 3, 5 = Incline Level 3.5

Press the Quick Speed button, then 8, 0 = 8.0 mph or kmph

Press the Quick Speed button, then 0, 8 = 0.8 mph or kmph

CONSOLE

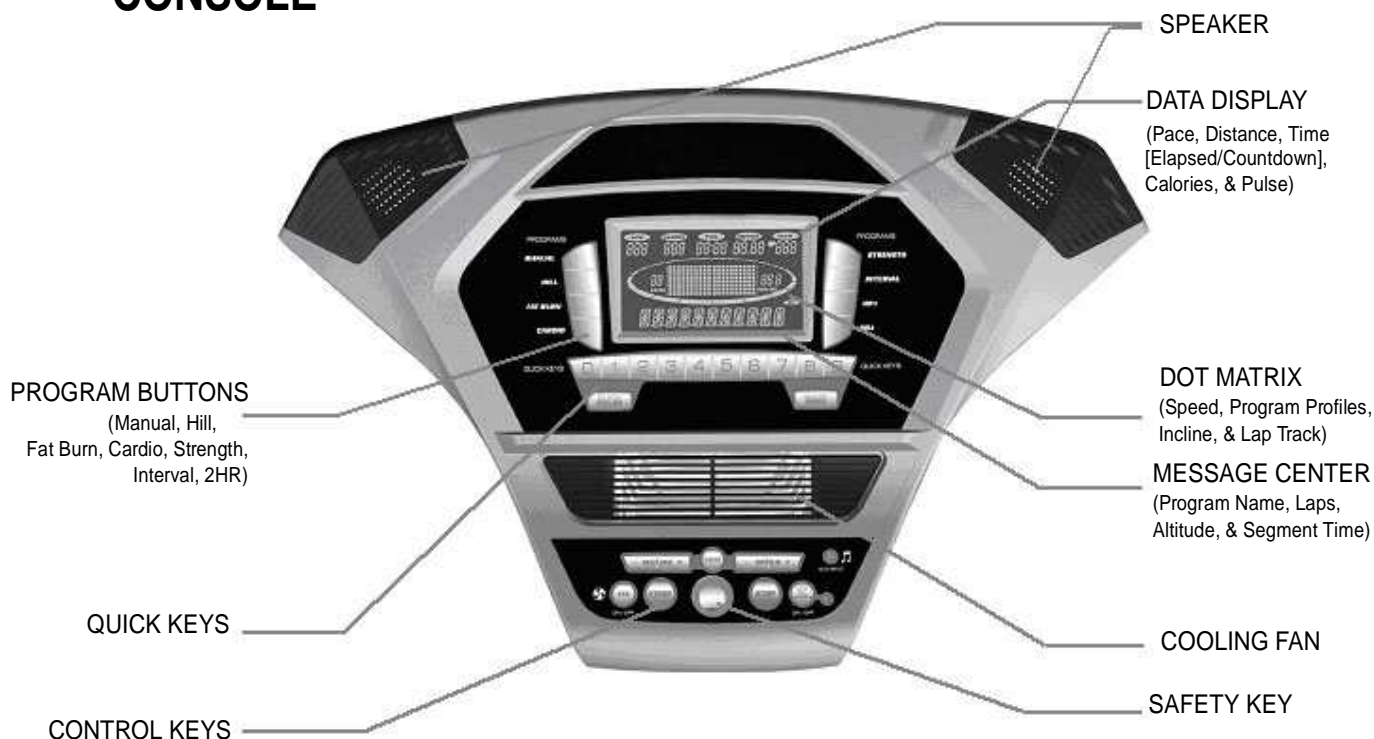
The console will display Pace, Calories burned, Time (elapsed or countdown), Distance travelled, Pulse, Speed, Incline, Program Name, # of Laps completed, and Segment Time. There is also a Speed & Incline profile graph that lets you see how hard you have worked and how challenging the upcoming segments will be.



OPERATION OF YOUR CONSOLE

GETTING FAMILIAR WITH THE CONTROL PANEL

CONSOLE



GETTING STARTED

Power the treadmill on by plugging it into an appropriate wall outlet, then turn on the power switch located at the front of the treadmill below the motor cover. Ensure that the safety key is installed, as the treadmill will not power on without it.

When the power is turned on, all the lights on the display will light for a short time. Then the Time and Distance windows will display Odometer readings for a short time. The Time window will show how many hours the treadmill has been in use and the Distance window will show how many miles (or Kilometers if the treadmill is set to metric readings) the treadmill has gone. Then a message in the **message center** will show the current software version. The treadmill will then enter idle mode, which is the starting point for operation.

QUICK-START/MANUAL OPERATION

STEP 1: Press and release the **Start** key to wake display up (if not already on).

Note: Installing the tether key will also wake up the console.

STEP 2: Press and release the **Start** key to begin belt movement, at .5 mph (1 kmph), then adjust to the desired speed using the **+ / -** or **Fast/Slow** keys (console or hand rail). You may also use the quick speed key, then 0 through 9 to adjust the speed.

STEP 3: To slow the tread-belt press and hold the **v** key (console or hand rail) to the desired speed. You may also press the quick speed adjust keys, 0 through 9.

STEP 4: To adjust the Incline level, pressed and hold the **Incline + /-** or **Up/Down** keys; you may also adjust to the desired incline by pressing the **Quick Incline** key and then 0 through 9.

STEP 5: To stop the tread-belt press and release the **Stop** key.

PAUSE/STOP/RESET FEATURE

STEP 1: When the treadmill is running the pause feature may be utilized by pressing the red **Stop** key once. This will slowly decelerate the tread-belt to a stop. The incline will go to zero percent. The Time, Distance and Calorie readings will hold while the unit is in the pause mode. After 5 minutes the display will reset and return to the start up screen.

STEP 2: To resume your exercise, when in Pause mode, press the **Start** key. The speed and incline will return to their previous settings.

- Pause is executed when the **Stop** button is pressed once. If the **Stop** key is pressed a second time, the program will end and a workout summary will be displayed. If the **Stop** button is pressed a third time, the console will return to the idle mode (start up) screen. If the **Stop** button is held down for more than 3 seconds the console will reset.

INCLINE FEATURE

- Incline may be adjusted anytime after belt movement.
- Press and hold the **+ / -** or **Up/Down** keys (console or hand rail) to achieve desired level of effort. You may also choose a more rapid increase / decrease by selecting the **Quick Incline** key, then 0 through 9, on the left hand side of console.
- The display will indicate incline percent in increments of .5 as adjustments are made.
- The incline will return to zero unless the main power switch or safety key are turned off while incline is at a higher setting.

DOT MATRIX CENTER DISPLAY (Manual Operation)

Eighteen columns of boxes (8 high) indicate each segment of a workout. The boxes only show an approximate level (speed/incline) of effort. They do not necessarily indicate a specific value - only an approximate percent to compare levels of intensity. In Manual Operation the Speed / Incline dot matrix window will build a profile "picture" as values are changed during a workout.

The speed and incline profiles will display half of the program at one time (9 columns). They will both scroll right to left. The Lap track will move in a counterclockwise direction.

1/4 MILE (0.4 KM) TRACK

The 1/4-mile or 0.4 km track (one lap) will be displayed around the dot matrix window. The flashing segment indicates your progress. Once the 1/4-mile (Metric - 0.4k) is complete this feature will begin again. There is a lap counter in the message window for monitoring your distance.

PULSE GRIP FEATURE

The Pulse (Heart Rate) console window will display your current heart rate in beats per minute during the workout. You must use both stainless steel sensors on the front cross bar or the heart rate transmitter chest strap to display your pulse. Pulse value displays anytime the upper display is receiving a Pulse signal. You may not use the Grip Pulse feature while in Heart Rate programs.

Note: Refer to Important Safety Instructions (page 3) concerning Pulse Grip operation.

CALORIE DISPLAY

Displays the cumulative calories burned at any given time during your workout.

Note: This is only a rough guide used for comparison of different exercise sessions, which cannot be used for medical purposes.

SPEAKERS

The console has built-in Speakers. You may plug an Audio Source (CD player, MP3, Computer, etc.) into the Jack on the right side of console. There is no volume control on the console. The volume must be controlled on the Audio Source.

HANDRAIL BUTTONS DISABLE SWITCH

To the right of the Stop button there is a Handrail control switch and an indicator light next to it when the indicator light is lit, the handrail switches are disabled. This allows you to use the full length of the handrails without fear of activating the speed or elevation controls.

TO TURN TREADMILL OFF

1. Display will automatically turn off (go to sleep) after 30 minutes (no key operations).
The treadmill will draw very little current in sleep mode (about as much as your television when it is turned off).
2. Remove the tether cord.
3. Turn off the main switch on the front of the treadmill, below the motor cover.

PROGRAMMABLE FEATURES

The treadmill offers seven factory preset-programs and one Manual program. Each preset program has a maximum Speed and Incline level that is displayed when a desired workout is chosen. The maximum Speed and Incline that the particular program will achieve will be displayed in the Message Center.

SELECT A PRESET PROGRAM

STEP 1: Press the desired **Program** key. Press enter to select the program. The display will prompt you through the programming or you can just press Start to begin the program with default values.

STEP 2: If Enter was pressed, the Message Center will now be blinking a value, indicating your **Age** (default is 35). Entering your correct age affects the Heart Rate programs. Use the + or - keys to adjust, then press **Enter**. Your age determines your recommended maximum heart rate. The Heart Rate feature is based on a percentage of your maximum heart rate, it is important to enter the correct age for this feature to work properly.

STEP 3: The Message Center will now be blinking a value, indicating your **Body Weight** (default is 150#). Entering the correct body weight will affect the calorie count. Use the + or - keys to adjust, then press **Enter**.

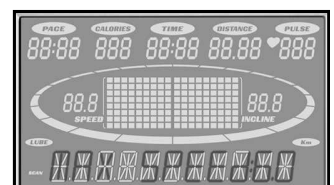
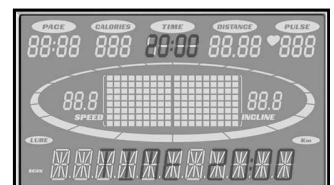
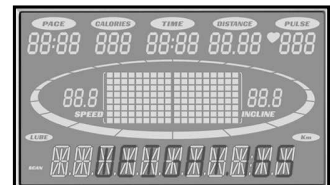
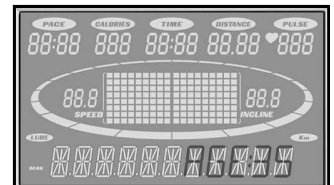
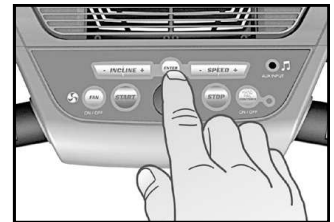
*A note about the **Calorie** display:* No exercise machine can give you an exact calorie count because there are too many factors which determine exact calorie burn for a particular person. Even if someone is the exact same body weight, age and height, their calorie burn may be very different than yours. The **Calorie** display is to be used as a reference only to monitor improvement from workout to workout.

STEP 4: The Message Center will be blinking a value, indicating **Time** (the default value is 30 minutes). You may use any of the + or - keys to adjust the time. After adjusting, or to accept the default, press **Enter**. (*Note: You may press start at any time during the programming to start the program*).

STEP 5: The Message Center will now be blinking the preset top speed of the selected program (**3 mph or 5 kph**). Use the Speed + or - keys to adjust, then press **Enter**. Each program has various speed changes throughout; this allows you to limit the highest speed the program can reach.

STEP 6: The Message Center will be blinking the preset top incline of the selected program (6.0%). Use the Incline + or – keys to adjust, then press **Enter**.

You are now done programming data and may press **Start** to begin your workout or **Stop** to go back one level to change data entered in the programming phase.



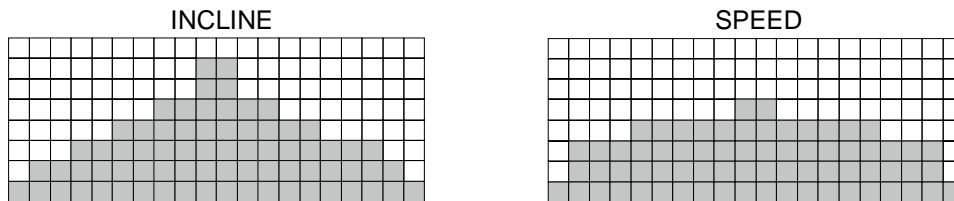
PRESET PROGRAMS

The treadmill has five different programs that have been designed for a variety of workouts. These five programs have factory preset work level profiles for achieving different goals.

Hill

Resistance: This program follows a triangle or pyramid type of gradual progression from approximately 10% of maximum effort (the level that you chose before starting this program) up to a maximum effort which lasts for 10% of the total workout time, then a gradual regression of resistance back to approximately 10% of maximum effort.

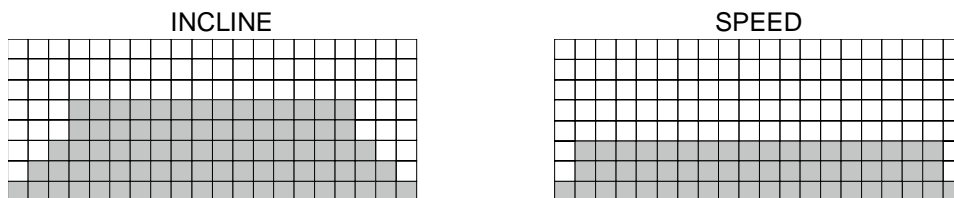
Incline: The deck elevation is a more gradual and sustained progression. Maximum elevation is in the middle of the workout and lasts for 10% of the duration.



Fat Burn

Resistance: This program follows a quick progression up to the maximum speed level (default or user input level) that is sustained for 2/3 of the workout. This program will challenge your ability to sustain your energy output for an extended period of time.

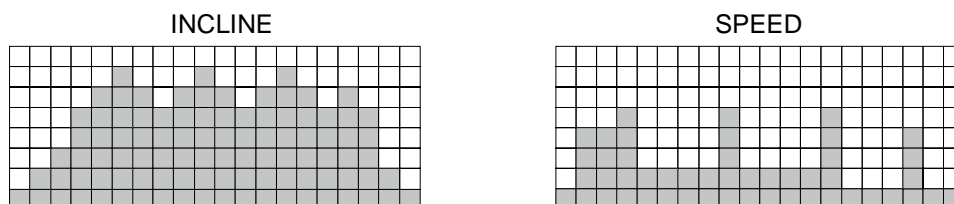
Incline: The deck elevation is a quick and sustained progression up to the maximum value (default or user input) for 90% of the workout duration.



Cardio

Resistance: This program presents a quick progression up to near maximum speed level (default or user input level). It has slight fluctuations up and down to allow your heart rate to elevate, and then recover repeatedly, before beginning a quick cool down. This will build up your heart muscle and increase blood flow and lung capacity.

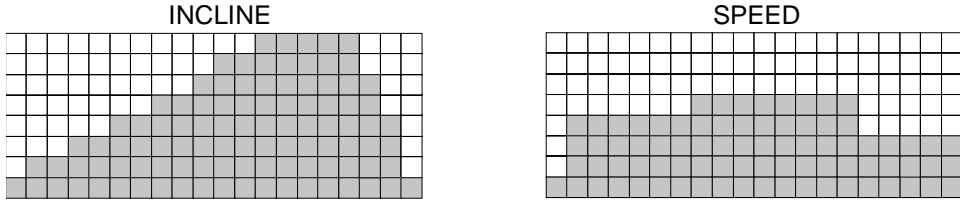
Incline: The elevation in this program is moderate. There are several elevation spikes at different points of the workout. Segments 4, 9, and 14 are maximum elevation for this program.



Strength

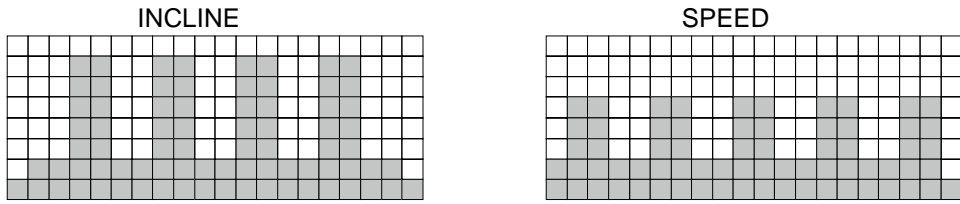
Resistance: This program has a gradual progression of speed up to 100% of maximum effort that is sustained for 25% of workout duration. This will help build strength and muscular endurance in the lower body and gluts. A brief cool down follows.

Incline: There is a quick climb to a moderate, sustained elevation that lasts the majority of the workout length.



Interval

Resistance: This program takes you through high levels of intensity followed by recovery periods of low intensity. This program utilizes and develops your “Fast Twitch” muscle fibers which are used when performing tasks that are intense and short in duration. These deplete your oxygen level and spike your heart rate, followed by periods of recovery and heart rate drop to replenish oxygen. Your cardiovascular system gets programmed to use oxygen more efficiently.



HEART RATE PROGRAMS

The old motto, “no pain, no gain”, is a myth that has been overpowered by the benefits of exercising comfortably. A great deal of this success has been promoted by the use of heart rate monitors. With the proper use of a heart rate monitor, many people find that their usual choice of exercise intensity was either too high or too low and exercise is much more enjoyable by maintaining their heart rate in the desired benefit range.

To determine the benefit range in which you wish to train, you must first determine your Maximum Heart Rate. This can be accomplished by using the following formula: 220 minus your age. This will give you the Maximum Heart Rate (MHR) for someone of your age. To determine the effective heart rate range for specific goals you simply calculate a percentage of your MHR. Your Heart rate training zone is 50% to 90% of your maximum heart rate. 60% of your MHR is the zone that burns fat while 80% is for strengthening the cardio vascular system. This 60% to 80% is the zone to stay in for maximum benefit.

For someone who is 40 years old their target heart rate zone is calculated:

$$220 - 40 = 180 \text{ (maximum heart rate)}$$

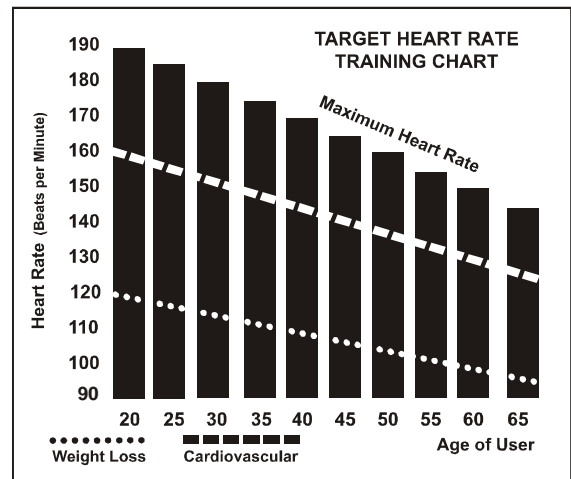
$$180 \times .6 = 108 \text{ beats per minute}$$

(60% of maximum)

$$180 \times .8 = 144 \text{ beats per minute}$$

(80% of maximum)

So for a 40 year old the training zone would be 108 to 144 beats per minute.



If you enter your age during programming the console will perform this calculation automatically. After calculating your MHR you can decide upon which goal you would like to pursue.

The two most popular reasons for, or goals, of exercise are cardiovascular fitness (training for the heart and lungs) and weight control. The black columns on the chart above represent the MHR for a person whose age is listed at the bottom of each column. The training heart rate, for either cardiovascular fitness or weight loss, is represented by two different lines that cut diagonally through the chart. A definition of the lines' goal is in the bottom left-hand corner of the chart. If your goal is cardiovascular fitness or if it is weight loss, it can be achieved by training at 80% or 60% respectively, of your MHR on a schedule approved by your physician. Consult your physician before participating in any exercise program.

RATE OF PERCEIVED EXERTION

Heart rate is important but listening to your body also has a lot of advantages. There are more variables involved in how hard you should workout than just heart rate. Your stress level, physical health, emotional health, temperature, humidity, the time of day, the last time you ate and what you ate, all contribute to the intensity at which you should workout. If you listen to your body, it will tell you all of these things.

The rate of perceived exertion (RPE), also know as the Borg scale, was developed by Swedish physiologist G.A.V. Borg. This scale rates exercise intensity from 6 to 20 depending upon how you feel or the perception of your effort.

The scale is as follows:

Rating Perception of Effort

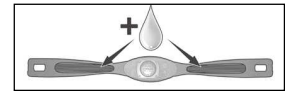
- 6 Minimal
- 7 Very, very light
- 8 Very, very light +
- 9 Very light
- 10 Very light +
- 11 Fairly light
- 12 Comfortable
- 13 Somewhat hard
- 14 Somewhat hard +
- 15 Hard
- 16 Hard +
- 17 Very hard
- 18 Very hard +
- 19 Very, very hard
- 20 Maximal

You can get an approximate heart rate level for each rating by simply adding a zero to each rating. For example a rating of 12 will result in an approximate heart rate of 120 beats per minute. Your RPE will vary depending up the factors discussed earlier. That is the major benefit of this type of training. If your body is strong and rested, you will feel strong and your pace will feel easier. When your body is in this condition, you are able to train harder and the RPE will support this. If you are feeling tired and sluggish, it is because your body needs a break. In this condition, your pace will feel harder. Again, this will show up in your RPE and you will train at the proper level for that day.

USING HEART RATE TRANSMITTER(Optional)

How to wear your wireless chest strap transmitter:

1. Attach the transmitter to the elastic strap using the locking parts.
2. Adjust the strap as tightly as possible as long as the strap is not too tight to remain comfortable.
3. Position the transmitter with the logo centered in the middle of your torso facing away from your chest (some people must position the transmitter slightly left of center). Attach the final end of the elastic strap by inserting the round end and, using the locking parts, secure the transmitter and strap around your chest.
4. Position the transmitter directly below the pectoral muscles.
5. Sweat is the best conductor to measure very minute heart beat electrical signals. However, plain water can also be used to pre-wet the electrodes (2 ribbed oval areas on the reverse side of the belt and both sides of the transmitter). It's also recommended that you wear the transmitter strap a few minutes before your work out. Some users, because of body chemistry, have a more difficult time in achieving a strong, steady signal at the beginning. After "warming up", this problem lessens. As noted, wearing clothing over the transmitter/strap doesn't affect performance.
6. Your workout must be within range - distance between transmitter/receiver – to achieve a strong steady signal. The length of range may vary somewhat but generally stay close enough to the console to maintain good, strong, reliable readings. Wearing the transmitter directly on bare skin assures you of proper operation. If you wish, you may wear the transmitter over a shirt. To do so, wet the areas of the shirt that the electrodes will rest upon.



Note: The transmitter is automatically activated when it detects activity from the user's heart. Additionally, it automatically deactivates when it does not receive any activity. Although the transmitter is water resistant, moisture can have the effect of creating false signals, so you should take precautions to completely dry the transmitter after use to prolong battery life (estimated transmitter battery life is 2500 hours). The replacement battery is Panasonic CR2032.

ERRATIC OPERATION

Caution! Do not use this treadmill for Heart Rate programs unless a steady, solid Actual Heart Rate value is being displayed. High, wild, random numbers being displayed indicate a problem.

Areas to look for interference which may cause erratic heart rate:

1. Treadmill not properly grounded - Proper grounding is a must!
2. Microwave ovens, TV's, small appliances, etc.
3. Fluorescent lights.
4. Some household security systems.
5. Perimeter fence for a pet.
6. Some people have problems with the transmitter picking up a signal from their skin. If you have problems try wearing the transmitter upside down. Normally the transmitter will be oriented so the logo is right side up.
7. The antenna that picks up your heart rate is very sensitive. If there is an outside noise source, turning the whole machine 90 degrees may de-tune the interference.
8. Another Individual wearing a transmitter within 3' of your machine's console.

If you continue to experience problems contact your dealer.

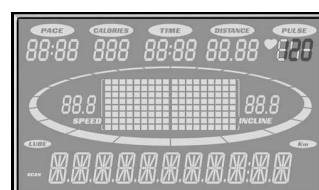
HEART RATE PROGRAM OPERATION

Note: You must wear the heart rate transmitter strap for these programs

Both programs operate the same, the only difference is that **HR1** is set to 60% and **HR2** is set to 80% of the maximum heart rate. They both are programmed the same way. To start an HR program follow the instructions below or just select the **HR1** or **HR2** program, then the Enter button and follow the directions in the **Message Center**.

After selecting your heart rate target, the program will attempt to keep you at or within 3 - 5 heart beats per minute of this value. Follow the prompts in the **Message Center** to maintain your selected heart rate value.

1. Press the **HR 1** (60% of max heart rate default) or **HR 2** (80% of max heart rate default) key, then press the **Enter** key.
2. The **Message Center** will ask you to enter your **Age**. You may enter your age, using the Speed + or - keys, then press the **Enter** key to accept the new value and proceed on to the next screen.
3. You are now asked to enter your **Weight**. You may adjust the weight value using the **Speed + or -** keys, then press **Enter** to continue.
4. Next is **Time**. You may adjust the time using the **Speed + or -** keys and press **Enter** to continue.
5. Now you are asked to adjust the Heart Rate Target. This is the heart rate level you will strive to maintain during the program. Adjust the level using the **Speed + or -** keys, then press **Enter**. *Note: The heart rate that appears is based on the % you accepted in Step 1. If you change this number it will either increase or decrease the % from Step 1. Now you are finished editing the settings and can begin your workout by pressing the **Start** key. You can also go back and modify your settings by pressing the **Stop** key. NOTE: At any time during the editing of Data you can press the Stop key to go back one screen.*
6. If you want to increase or decrease the workload at any time during the program press the **Speed + or -** or **Fast/Slow** key on the console or right handlebar. This will allow you to change your target heart rate at any time during the program.
7. During the **HR 1** or **HR 2** programs you will be able to scroll through the data in the **Message Center** by pressing the **Enter** key.
8. When the program ends you may press **Start** to begin the same program again **Stop** to exit the program.



GENERAL MAINTENANCE

BELT/DECK

Your treadmill uses a very high-efficient low-friction deck. Performance is maximized when the deck is kept as clean as possible. Use a soft, damp cloth, or paper towel, wipe the edge of the belt and the area between the belt edge and the frame. Also reach as far as practical directly under the belt edge. This should be done once a month to extend belt and deck life. A mild soap and water solution along with a nylon scrub brush will clean the top of the textured belt. Allow to dry before using.

BELT/DECK

This occurs during normal break-in or until the belt stabilizes. Sometimes the black dust from the belt will appear on the floor behind the treadmill, this is normal.

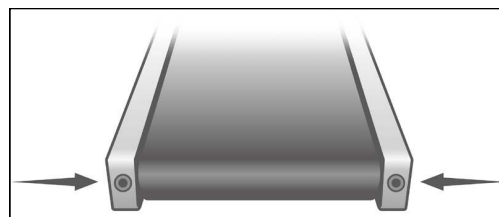
GENERAL CLEANING

Dirt, dust, and pet hair can block air inlets and accumulate on the running belt. Please vacuum underneath your treadmill on a monthly basis to prevent excess build-up of dirt that can get sucked up and get into the inner workings under the motor cover. Once a year, you should remove the black motor hood and vacuum out dirt that may accumulate. **UNPLUG POWER CORD BEFORE THIS TASK.**

BELT ADJUSTMENTS

Tread-belt Tension Adjustment - Belt tension is not critical for most users. It is very important though for joggers and runners in order to provide a smooth, steady running surface. Adjustment must be made from the rear roller with the 6 mm Allen wrench provided in the parts package. The adjustment bolts are located at the end of the step rails as shown in the diagram below.

Tighten the rear roller only enough to prevent slippage at the front roller. Turn the tread-belt tension adjusting bolts 1/4 turn each and inspect for proper tension by walking on the belt and making sure it is not slipping or hesitating with each step. When an adjustment



is made to the belt tension, you must be sure to turn the bolts on both sides evenly or the belt could start tracking to one side instead of running in the middle of the deck.

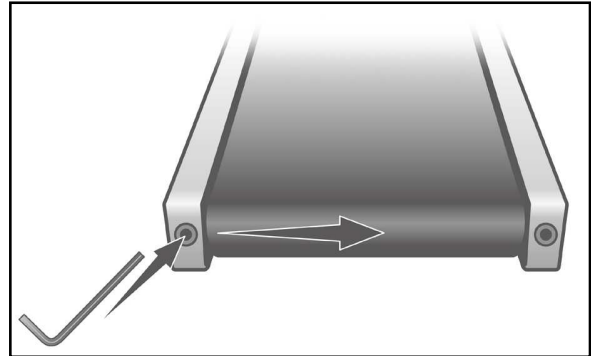
DO NOT OVERTIGHTEN – Over tightening will cause belt damage and premature bearing failure. If you tighten the belt a lot and it still slips, the problem could actually be the drive belt - located under the motor cover - that connects the motor to the front roller. If that belt is loose it feels similar to the walking belt being loose. Tightening the motor belt should be done by a trained service person.

TREADBELT TRACKING ADJUSTMENT

The treadmill is designed so that the tread-belt remains reasonably centered while in use. It is normal for some belts to drift near one side while in use, depending on a user's gait and if they favor one leg. But if during use the belt continues to move toward one side, adjustments are necessary.

SETTING TREAD-BELT TRACKING

A 6 mm Allen wrench is provided for this adjustment. Make tracking adjustments on the left side bolt. Set belt speed at **3 mph (5 kmph)**. Be aware that a small adjustment can make a dramatic difference which may not be apparent right away. If the belt is **too close to the left side**, then turn the bolt only a 1/4 turn to the right (clockwise) and wait a few minutes for the belt to adjust itself.



Continue to make 1/4 turns until the belt stabilizes in the center of the running deck. If the belt is **too close to the right side**, turn the bolt counter-clockwise. The belt may require periodic tracking adjustment depending on use and walking/running characteristics. Some users may affect tracking differently. Expect to make adjustments as required to center the tread-belt. Adjustments will become less of a maintenance concern as the belt is used. Proper belt tracking is an owner responsibility common with all treadmills.

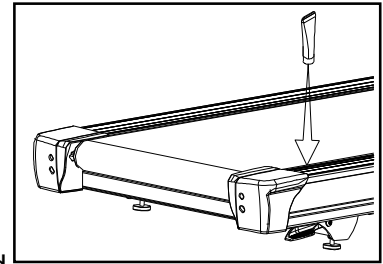
ATTENTION:

DAMAGE TO THE RUNNING BELT RESULTING FROM IMPROPER TRACKING / TENSION ADJUSTMENTS IS NOT COVERED UNDER THE WARRANTY.

BELT/DECK LUBRICATION PROCEDURE

Do not lubricate with other than approved lubricant. Your treadmill comes with one tube of lubricant and extra tubes can be ordered directly from your authorized dealer. There are commercially available lube kits, but the only one currently **approved is** Lube-N-Walk.

These kits come with an application wand that makes applying the lubrication easier. The kits can be purchased directly from Lube-N-Walk here: <http://www.jadfitness.com/>. The proper kit should be silicon based, NOT paraffin wax.



Keeping the deck lubricated at the recommended intervals ensures the longest life possible for your treadmill. If the lubricant dries out, the friction between the belt and deck rises and places undue stress on the drive motor, drive belt and electronic motor control board, which could result in catastrophic failure of these expensive components. Failure to lubricate the deck at regular intervals may void the warranty. The belt & deck come pre-lubricated and subsequent lubrication should be performed every 180 hours of use. The console has a built in lubrication reminder indicator that lights every 180 hours of use.

Use the Lubricant to lubricate the deck beneath the belt. If you can reach under the belt approximately 6" on each side, use the following procedure: Unplug the electrical cord. At the middle of the deck, lift up on the belt and reach under with the tube of lubricant. Squirt most of the lubricant on the deck surface. Repeat the process on the opposite side. Plug the electrical cord back into the outlet and walk on the belt at a moderate speed for five minutes.

If unable to perform the above procedure, it will be necessary to loosen the walking belt. Using the 6 mm Allen wrench supplied, loosen the two rear roller adjustment bolts -- located in the rear end caps -- enough to get your hand under the belt (5 –10 turns). Make sure to loosen both bolts the same amount of turns and also remember how many turns, because when finished you will need to tighten the bolts back to the point they were before.

Once the belt is loose, wipe the deck with a clean lint free cloth to remove any dirt. Apply the whole tube of lubricant onto the deck surface about **45 cm (18 inches)** from the motor cover. Squeeze out the contents of the tube across the deck (parallel to the motor cover) in about a one-foot line, like toothpaste on a toothbrush. The one-footline should be in the middle of the deck at approximately equal distance from both side edges of the belt. You want the lubricant to be applied about the spot that your feet would hit the belt as you are walking. This should be about 18 inches from the motor cover, but you may want to walk on the treadmill before loosening the belt to note where your feet land on the belt. If you mostly use the treadmill for running, the spot where your feet land may be different from walking. Once the lubricant is applied, tighten the rear roller bolts the same amount of turns as when you loosened them. Run the treadmill at about **5 kmph (3 mph)** without walking on it for about a minute or two to make sure the belt stays in the middle of the deck. If the belt tracksto one side then follow the belt tracking instructions to remedy. Now the deck is lubricated and you should walk, not run, on the treadmill immediately for at least 5 minutes to ensure the lubricant is evenly distributed. If you purchase a silicone based Lube-N-Walk kit, follow the instructions that come with it to apply the lubrication.

CALIBRATION PROCEDURE

1. Remove the safety key
2. Press and hold down the **Start** and **Fast +** buttons and replace the safety key.
Continue to hold the **Start** and **Fast** key until the window displays “Factory settings”, then press the **Enter** key.
3. You will now be able to set the display to show Metric or English settings (Miles vs. Kilometers). To do this, press the up or down key to show which you want, then press **Enter**.
4. Make sure the wheel size diameter is **2.30** then press **Enter**
5. Adjust the minimum speed (if needed) to **0.5 mph/ 1.0 kmph** and then press **Enter**
6. Adjust the maximum speed (if needed) to **10.0 mph / 16 kmph** and then press **Enter**
7. Adjust the maximum elevation (if needed) to **10** and then press **Enter**
8. Grade return – On (This allows the incline to return to zero when stop is pressed. For sale in Europe, EU standards require this to be off)
9. Press **Start** to begin calibration. The process is automatic; the speed will start up without warning, so do not stand on the belt.

ADJUSTING THE SPEED SENSOR

If the calibration does not pass you may need to check the speed sensor alignment.

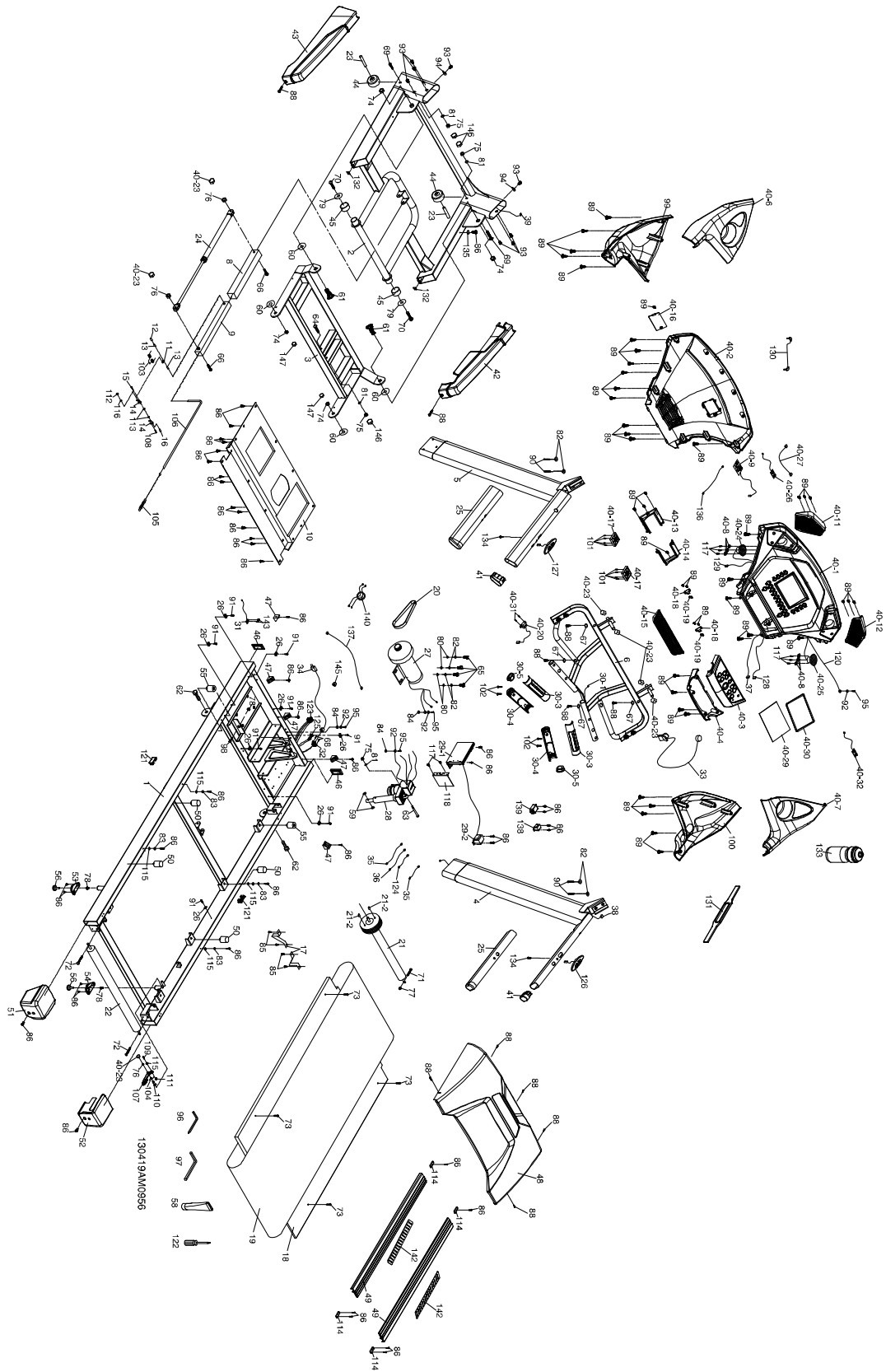
1. Remove the motor cover hood by loosening the 4 screws that hold it in place (you do not need to remove them completely).
2. The speed sensor is located on the left side of the frame, right next to the front roller pulley (the pulley will have a belt around it that also goes to the motor). The speed sensor is small and black with a wire connected to it.
3. Make sure the sensor is as close as possible to the pulley without touching it. You will see a magnet on the face of the pulley; make sure the sensor is aligned with the magnet. There is a screw that holds the sensor in place that needs to be loosened to adjust the sensor.
Re-tighten the screw when finished.



MAINTENANCE MENU

1. Press and hold the **Start**, **Stop** and **Enter** key at the same time, until the display shows “Engineering mode” (it may say maintenance menu, depending on version). Press the **Enter** key.
2. You can now scroll through the menu using the + and - keys. Use the **Stop** key to return to previous menu selection. The menu selections are:
 - A. **Key Test**- Tests that each key is functioning properly
 - B. **Display** - Test the LCD display segments are all lighting properly
 - C. **Functions**
 - I. **Sleep Mode** - Allows you to turn off the sleep mode. Console will stay on all the time unless power is turned off.
 - II. **Pause Mode** - When the console is paused during a program this will allow you to keep the console paused indefinitely instead of 5 minutes.
 - III. **Odometer** - Allows you to reset the odometer
 - IV. **English**- When enter is pressed allows you to change the settings for data to metric.
 - V. **Motor Test** - For service personnel only when troubleshooting motor problems.
 - VI. **Beep** - Allows you to disable the speaker so there is no beeping.
 - D. **Security**- Allows you to lock the keypad so the treadmill cannot be used. Press Enter to change setting (also called child lock).
 - E. **Factory Settings** - For factory use only.

EXPLODED VIEW DIAGRAM



PARTS LIST

Dwg #	Part description	Qty
1	Main Frame	1
2	Frame Base	1
3	Incline Bracket	1
4	Right Upright	1
5	Left Upright	1
6	Console Support	1
8	Outer Slide	1
9	Seat Slider	1
10	Motor Bottom Cover	1
11	Link	1
12	Link Shaft	1
13	Shaft Bushing	2
14	Fastening Bracket	2
15	Clevis Pin	1
16	Fastening Bushing	1
17	Belt Guide	2
18	Running Deck	1
19	Running Belt	1
20	Drive Belt	1
21	Front Roller W/Pulley	1
21~2	Magnet	2
22	Rear Roller	1
23	Wheel Sleeve	2
24	Cylinder	1
25	PVC Handgrip	2
26	Wire Tie Mount	8
27	Drive Motor	1
28	Incline Motor	1
29~1	Motor Controller	1
29~2	Adaptor	1
30~1	800m/m_Handpulse Wire	1
30~3	Handpulse Sensor (w/o wire)	2
30~4	Handpulse Bottom Cover	2
30~5	Handpulse End Cap	2
31	Sensor W/Cable	1
32	Power Socket	1
33	Safety Key	1
34	Power Cord	1
35	200m/m_Connecting Wire (White)	2
36	200m/m_Connecting Wire (Black)	1
37	800m/m_Computer Cable (Upper)	1
38	1300m/m_Computer Cable(Middle)	1
39	1150m/m_Computer Cable(Lower)	1
40	Console Assembly	1

Dwg #	Part description	Qty
40~1	Console Top Cover	1
40~2	Console Bottom Cover	1
40~3	Front Console Cover (Top)	1
40~4	Front Console Cover (Bottom)	1
40~6	Left Drink Bottle Holder (Upper)	1
40~7	Right Drink Bottle Holder (Upper)	1
40~8	Speaker Grill Anchor (Optional)	6
40~9	500m/m_W/Receiver, HR (Optional)	1
40~11	Speaker Cover (L)	1
40~12	Speaker Cover (R)	1
40~13	Wind Duct (L)	1
40~14	Wind Duct (R)	1
40~15	Deflector Fan Grill	1
40~16	Battery Cover	1
40~17	Fan Assembly (Optional)	1
40~18	Fan Fixing Plate	2
40~19	Fan Grill Anchor	2
40~20	Safety Switch Module W/ Cable	1
40~23	13m/m_Bolt Cap	7
40~24	250m/m_Speaker W/Cable (Optional)	1
40~25	700m/m_Speaker W/Cable (Optional)	1
40~26	Amplifier Controller (Optional)	1
40~27	400m/m_Amplifier Cable (Optional)	1
40~29	LCD Transparent Piece	1
40~30	Water-resist Rubber	1
40~31	3 × 10m/m_Sheet Metal Screw	2
40~32	500m/m_Earphone socket with cable and securing	1
41	Handgrip End Cap	2
42	Frame Base Cover (R)	1
43	Frame Base Cover (L)	1
44	Transportation Wheel(A)	2
45	Transportation Wheel(B)	2
46	□30 × 80m/m_Square End Cap	2
47	Motor Cover Anchor(D)	5
48	Motor Top Cover	1
49	Foot Rail	2
50	Cushion	4
51	Rear Adjustment Seat (L)	1
52	Rear Adjustment Seat (R)	1
53	Adjustment Foot Pad Cap (L)	1
54	Adjustment Foot Pad Cap (R)	1
55	Cushion	2
56	Adjustment Foot	2
58	Lubricant	1
59	Nylon Washer (A)	2
60	Nylon Washer (B)	4
61	1/2" × 1-1/4" _Carriage Bolt	2

Dwg #	Part description	Qty
62	1/2" x 1" _Hex Head Bolt	2
63	3/8" x 4" _Hex Head Bolt	1
64	3/8" x 92m/m _Hex Head Bolt	1
65	3/8" x 1" _Hex Head Bolt	4
66	5/16" x 2-3/4" _Button Head Socket Bolt	2
67	Ø1/4" x 19 x 1.5T _Flat Washer	4
68	3 x 10m/m _Sheet Metal Screw	2
69	3/8" x 2" _Flat Head Socket Bolt	2
70	5/16" x 1" _Button Head Socket Bolt	2
71	M8 x 60m/m _Hex Head Bolt	1
72	M8 x 80m/m _Socket Head Cap Bolt	2
73	M8 x 35m/m _Flat Head Countersink Bolt	4
74	1/2" x 8T _Nyloc Nut	4
75	3/8" x 7T _Nyloc Nut	4
76	5/16" x 6T _Nyloc Nut	3
77	M8 x 8T _Nyloc Nut	1
78	3/8" x 7T _Nut	3
79	Ø35 x 5/16" x 1.5T _Flat Washer	2
80	Ø25 x Ø10 x 2.0T _Flat Washer	4
81	Ø19 x Ø 10 x 1.5T _Flat Washer	4
82	3/8" x 2.0T _Split Washer	8
83	Ø6.5 x 25 x 1T _Concave Washer	4
84	M5 _Star Washer	3
85	4 x 12m/m _Sheet Metal Screw	4
86	5 x 16m/m _Tapping Screw	44
88	5 x 16m/m _Tapping Screw	11
89	3.5 x 12m/m _Sheet Metal Screw	45
90	3/8" x 1-3/4" _Button Head Socket Bolt	4
91	3.5 x 16m/m _Tapping Screw	8
92	M5 _Split Washer	4
93	5/16" x 15m/m _Button Head Socket Bolt	8
94	Ø5/16" x 19 x 1.5T _Curved Washer	2
95	M5 x 10m/m _Phillips Head Screw	4
96	Combination M5 Allen Wrench & Phillips Head Screw	1
97	M6 (66 x 86) _L Allen Wrench	1
98	3/8" x 2" _Hex Head Bolt	1
99	Left Drink Bottle Holder (Lower)	1
100	Right Drink Bottle Holder (Lower)	1
101	3.5 x 32m/m _Sheet Metal Screw (Optional)	8
102	3 x 12m/m _Tapping Screw	4
103	Dual Torsion-Spring	1
104	ChenChin Torsion-Spring	1
105	Steel Cable Tension Spring	1
106	Steel Cable	1
107	Release Lever	1
108	M3 x 10m/m _Phillips Head Screw	1
109	M5 x 20m/m _Phillips Head Screw	1

Dwg #	Part description	Qty
110	5/16" x 2" _Hex Head Bolt	1
111	M5_Nyloc Nut	1
112	M3_Nut	1
113	Ø5 x Ø10 x 1.0T_Flat Washer	2
114	Concave Washer	4
115	Ø5 x Ø13 x 1.0T_Flat Washer	5
116	M3_Split Washer	1
117	3 x 10m/m_Sheet Metal Screw (6pcs Optional)	8
118	Controller Back Plate	1
120	400m/m_Console Ground Wire	1
121	20 x 40m/m_Square End Cap	2
122	Phillips Head Screw Driver	1
123	On/Off Switch	1
124	100m/m x 764 x 764_Connecting Wire (Black)	1
125	Breaker	1
126	330m/m_Speed Adjustment Switch W/Cable	1
127	330m/m_Incline Adjustment Switch W/Cable	1
128	Speed Cable (Upper)	1
129	Incline Cable (Upper)	1
130	400m/m_Audio Cable (Optional)	1
131	Chest Strap (Optional)	1
132	Speed Nut Clip	2
133	Drink Bottle (Optional)	1
134	4 x 50m/m_Sheet Metal Screw	2
135	Wire Clamp	1
136	300m/m_Ground Wire	1
137	1000m/m_Ground Wire	1
138	Choke	1
139	Filter	1
140	600m/m_Connecting Cable Of Motor	1
142	Non-Slip Rubber	2
143	M3 x 12m/m_Phillips Head Screw	2
145	Ferrite Core	1
146	14m/m_Bolt Cap	3
147	19m/m_Bolt Cap	2



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