



***A passion for human performance™***

**Cybex 600T Treadmill Service Manual  
Cardiovascular Systems**

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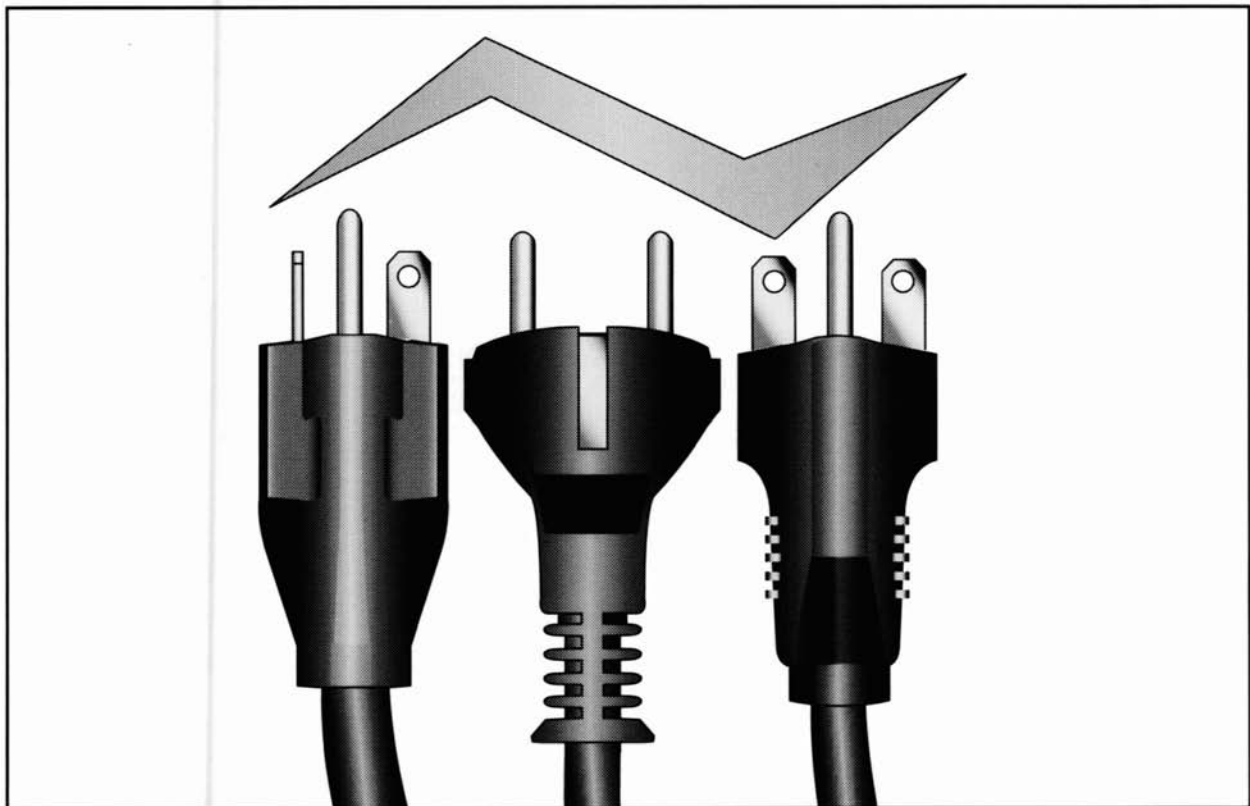


## Read All Instructions & Warnings Before Using Grounding Instructions

This treadmill is intended for commercial use. This treadmill must be grounded. If it should malfunction or break down, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This product is equipped with a cord having an equipment-grounding conductor and a 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 service provider if you are in doubt as to whether the treadmill is properly grounded. Seek a qualified electrician to perform any modifications to the cord or plug. Cybox is not responsible for injuries or damages as a result of cord or plug modification.*

This treadmill is for use on a nominal 115 VAG  $\pm 10\%$ , 60 Hz and 20 amps or a 220 VAG  $\pm 15\%$ , 50 Hz/60 Hz and 15 amps grounded, dedicated circuit. Make sure that the treadmill is connected to an outlet having the same configuration as the plug. Do not use a ground plug adapter to adapt the power cord to a non-grounded outlet.



115V  
NEMA 5-20

Euro Plug  
GEE 717

208/220V  
NEMA 6-15

# Important Safety Instructions

(Save These Instructions)

**! DANGER:** *To reduce the risk of electric shock, always unplug this treadmill from the electrical outlet immediately after using it and before cleaning it.*

**! WARNING:** *Serious injury could occur if these precautions are not observed. To reduce the risk of burns, fires, electric shock, or injury:*

- Obtain a medical exam before beginning any exercise program.
- Keep children away from the treadmill. Teenagers and disabled persons must be supervised while using.
- Stop exercising if you feel faint, dizzy, or experience pain at any time while exercising and consult your physician.
- Use the treadmill handrails for support and to maintain balance.
- Disconnect all power before servicing the treadmill.
- Use a dedicated line when operating the treadmill.
- Connect the treadmill to a properly grounded outlet only.
- Do not operate electrically powered treadmills in damp or wet locations.
- Stop and place the treadmill at 0 degrees incline (level) after each use.
- Do not leave the treadmill unattended when plugged in and running. After turning off the treadmill, don't leave it until it comes to a complete stop and is level. To disconnect, turn all controls to the STOP or OFF position, and then remove the plug from the outlet.
- Inspect the treadmill for worn or loose components before each use. Do not use until worn or damaged parts are replaced.
- Maintain and replace worn parts regularly. Refer to "Preventative Maintenance" Section of Owner's Manual.
- Do not operate the treadmill if the cord is damaged, if the treadmill is not working properly, or if the treadmill has been dropped or damaged. Seek service from a qualified technician.

- Do not place the cord near heated surfaces or sharp edges.
- Do not use the treadmill outdoors.
- Do not operate the treadmill around or where aerosol (spray) or where oxygen products are being used.
- Read and understand the Owner's Manual completely before using the treadmill.
- Read and understand emergency stop procedures.
- Read and understand all warnings posted on the treadmill.
- Replace any warning label if damaged, worn or illegible.
- Do not wear loose or dangling clothing while using the treadmill.
- Proper footwear should always be worn on or around exercise equipment.
- Keep all body parts, hair, towels, water bottles, and the like free and clear of moving parts.
- Set up and operate the treadmill on a solid, level surface. Do not operate in recessed areas or on plush carpet.
- Provide the following clearances: 39 inches (1 m) at each side, 78 inches (2 m) at the back, and enough room for safe access and passage at the front of the treadmill. Be sure your treadmill is clear of walls, equipment, and other hard surfaces.
- Do not attempt repairs, electrical or mechanical. Seek trained repair personnel when servicing. Contact the nearest authorized Cybex dealer or other competent repair service.
- Use Cybex factory parts when replacing parts on the treadmill.
- Do not modify the treadmill in any way.
- Do not use attachments unless recommended for the treadmill by Cybex.
- Report any malfunctions, damage or repairs to the facility.
- Do not use the treadmill if you exceed 350 lbs. (157 kg). This is the rated maximum user weight.

## About This Manual

For your convenience, all measurements and voltage requirements are listed in both English and metric units. English values are listed first, followed by metric units in parentheses. For example: 1" (2.54 cm).

An Owner's Manual is shipped with each 600T Treadmill. To purchase a copy of the Service Manual contact Cybox Customer Service at 888-462-9239 or 508-533-4300.

To contact Cybox with comments about this manual you may send email to [techpubs@cyboxintl.com](mailto:techpubs@cyboxintl.com).

### Important Voltage Information

Before you assemble your 600T, check to make sure that the treadmill has the correct voltage requirements for your area, and that you have the correct model.

To check for the correct model and voltage requirements, locate the serial number label and voltage label. Your serial number can be found on the rear crossbar under the running deck. The voltage of your treadmill can be found on a label near the on/off (I/O) switch.

The power requirements for this treadmill are 115 VAC  $\pm$ 10%, 60 Hz and 20 amps or a 220 VAC  $\pm$ 15%, 50 Hz/60 Hz and 15 amps grounded, dedicated circuit.

**! WARNING:** *Do not attempt to use this unit with a voltage adapter.*

**! WARNING:** *Do not attempt to use this unit with an extension cord.*

### FCC Compliance Information

**! WARNING:** *Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.*

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. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

## Declaration of Conformity

We declare that to the best of our knowledge that the fitness equipment listed below, and manufactured by:

Cybex International, Inc.

10 Trotter Drive

Medway MA, 02053, USA

Conforms to:

Directives: 73/23/EEC, 89/336/EEC

Standards: EN 957-1, EN60335-1, EN55022, EN55014, EN50082-1

Product Name: Treadmill

Model Number: 600T (220V)

European Contact: Attention: European Sales Director

Room 1, Floor 3, Tredegar Chambers, 78 Bridge Street, Newport,  
South Wales, NP204AQ Phone 011-44-1633-251222

*NOTE: For European customers only.*





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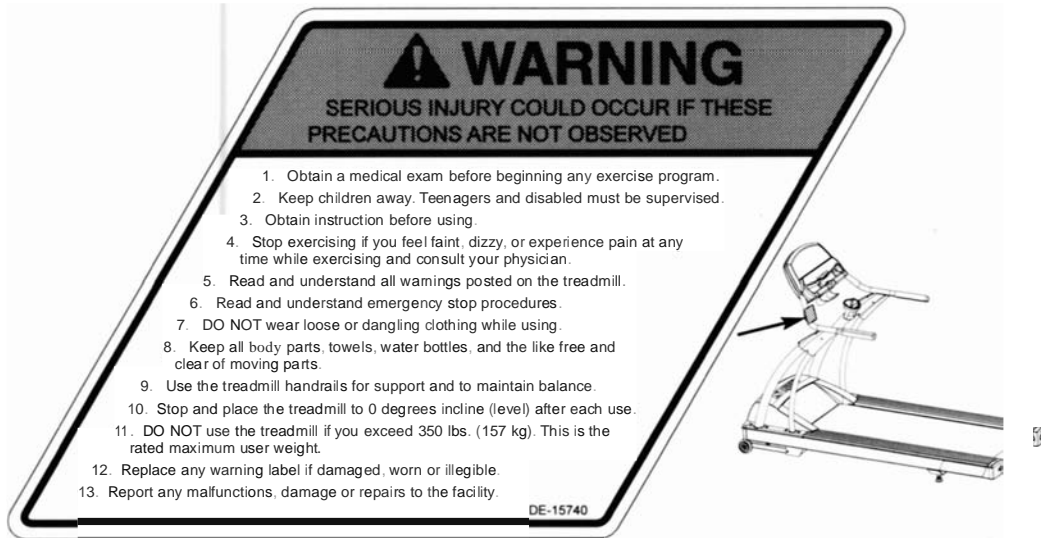
# 1- Safety

Carefully read and understand the following before using the *BOOT* treadmill:

- Warning Decals
- Caution Decals

## Warning Decals

Warning decals indicate a potentially hazardous situation, which, if not avoided, could result in death or serious injury. The warning decal used on the *BOOT* is shown below.

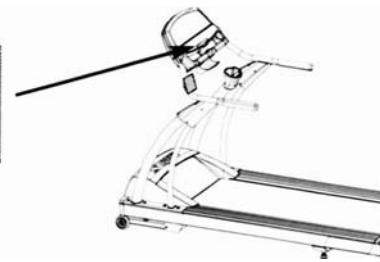


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## Caution Decals

Caution decals indicate a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury. The caution decals used on the GOOT are shown below.



## 2 - Technical Specifications

### Specifications

Length:	83" (211 cm)
Width:	33" (84 cm)
Running Area:	20" x 60" (51 cm x 152.4 cm)
Weight of Product:	450 lbs. (203 kg)
Speed Range:	0.5 to 10.0 mph (0.8 to 16.1 kph) in 0.1 mph or 0.1 kph increments
Incline Range:	0 to 15% grade
Levels of Difficulty:	15 per program
Manual Mode:	Yes
Programs:	Manual, Hills, Endurance, Sport, Heart Rate Control (requires optional Polar receiver)
Optional:	Contact Heart Rate
Standard Accessories:	Accessory holder, bottle holder
Connectivity:	CSAFE
Chassis Construction:	10-gauge uni-welded steel
Deck Material:	Lubricated wood composite
Power Requirement:	115 VAC $\pm$ 10%, 60 Hz and 20 amps or a 220 VAC $\pm$ 15%, 50 Hz/60 Hz and 15 amps grounded, dedicated circuit
Motor:	2.5 hp, DC. continuous duty
Emergency Stop:	Pull the emergency stop key (lanyard)
Languages:	English, French, German, Japanese, Spanish
Maximum User Weight:	350 lbs. 159 kg)

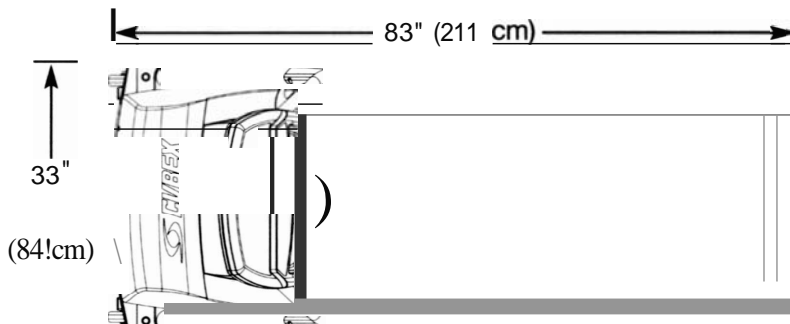


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# 3 - Preventative Maintenance

## Regular Maintenance Activities

**Cleaning Your Treadmill-** When cleaning your treadmill spray a mild\* cleaning agent, such as a water and dishsoap solution, on a clean cloth first, and then wipe the treadmill with the damp cloth.

- ! CAUTIONS:** *Do not spray cleaning solution directly on the treadmill. Direct spraying could cause damage to the electronics and may void the warranty.*
- \*** *Using a non-recommended cleaning solution can cause damage to your treadmill. Do not use an alkaline cleaner to clean your treadmill. Read the label on the cleaning product before you use it. If the ingredients list alcohol or say "not recommended for aluminum," do not use that product.*

**! WARNING:** *To prevent electrical shock, be sure that power is shut off and the treadmill is unplugged from the electrical outlet before performing any cleaning or maintenance procedures.*

Use the following routine to help insure your treadmill's long life:

**After Each Use -** Wipe up any liquid spills immediately. After each workout, use a damp cloth to wipe up any remaining perspiration from the handrails and painted surfaces.

Be careful not to spill or get excessive moisture between the edge of the display panel and the console, as this might create an electrical hazard or cause failure of the electronics.

**! WARNING:** *Keep wet items away from inside parts of the treadmill. Electrical shock could occur even if the treadmill is unplugged.*

**Every Month -** Vacuum any dust or dirt that might accumulate under or around the 600T. Motors are especially susceptible to dust and dirt, and restricted airflow can prevent adequate cooling that could shorten motor life.

To clean the motor components, you must remove the two Phillips head screws that hold the motor cover in place. Lift the cover, and put it and the screws aside. Use a vacuum attachment or hand vacuum to clean the exposed elevation assembly, drive motor, lower electronics and the

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surrounding areas.

Also use a *dry* cloth for the areas that you can reach with the vacuum cleaner. If the machine has not been used for some time or is excessively dirty, use a dry cloth to wipe all exposed areas. Replace the cover and screws when finished.

**Four Times Per Year** - Clean the belt and the deck surfaces to minimize the effect of friction between the wood deck and the running belt. Clean the underside of the running belt and the top of the running deck surface by wiping them with a clean dry towel. This should be done four times per year to prevent premature wear of the deck, running belt, and the drive motor system.

**As Needed** - The running belt may become loose and slip on the drive roller with each foot plant.

**To Re-tension the Belt:** While holding down any key on the console, turn the treadmill on; this brings you into *Test Mode*. Press **Speed ▲** to increase the belt speed to 5 mph (8 kph). Rotate both of the rear roller tension bolts 1/4 of a turn clockwise. If the belt tracks off center, to either side, the running deck will become visible. If this occurs, it will be necessary to adjust the running belt back to the center. See Figure 1.

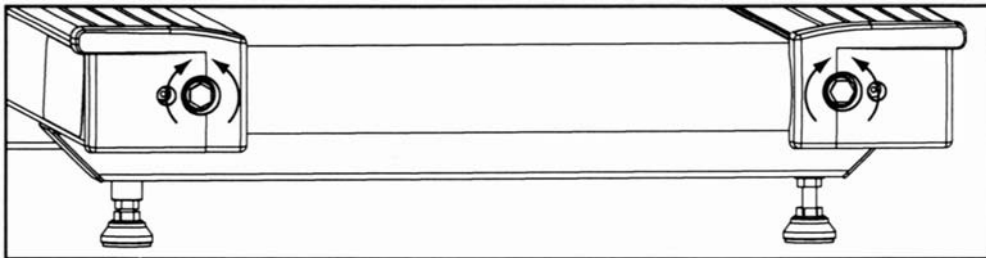


Figure 1

**! CAUTION:** *Be careful not to over tighten the belt. Over tightening the belt can create excessive tension on the front and rear rollers.*

**To Re-center the Belt:** Use a wrench to tighten the rear roller bolt on the side of the treadmill towards which the belt is moving. For example: If the belt moves to the right and the deck becomes exposed on the left, use a wrench to tighten the rear roller bolt on the right side of the frame, tighten about 1/2 of a turn (clockwise) and wait 30 seconds. If the belt does not move back to the center of the treadmill, make another adjustment to the same bolt. Once the running belt has been adjusted closer to the center of the treadmill use about 1/4 of a turn until the belt has been stabilized.

**! CAUTION:** *While centering the belt choose one bolt to adjust. Do not adjust both bolts.*

After the belt has been centered, check the belt tension. Make sure the running belt tension is tight enough so that the belt does not slip or hesitate when stepped on. Walk on the treadmill at 3.5-4 mph (5.6-6.4 kph) and every 4th to 5th step throw your weight into your step to feel if the belt is slipping. If the belt does slip, use a wrench to equally tighten both rear roller



adjustment bolts 1/2 of a turn (clockwise). Adjust the belt until no further slipping is felt.

## Running Belt Maintenance

The running belt and deck should be checked periodically for any excessive wear. The belt may need minor adjustments. Use the following section to help keep your *BOOT* operating properly.

**Checking the Belt and Deck Surfaces** - In an effort to make sure that the running belt operates properly, visually inspect the belt on a weekly basis to make sure that there are no tears or fraying in the belt material.

To inspect the edges of the belt, it is necessary to remove the plastic side rails. Follow these steps:

1. Turn the power off.
  - A. Turn the main power switch on the front panel to the off (0) position.
  - B. Unplug the treadmill from the power outlet.

**! WARNING:** When removing or installing the side rails be sure to wear work gloves to protect against any sharp edges.

2. Remove the plastic end caps and side rails.
  - A. Remove the Phillips head screws that fasten each of the plastic end caps in place and set aside. See Figure 2.
  - B. Grab the side rail and firmly slide it out towards the back of the treadmill.

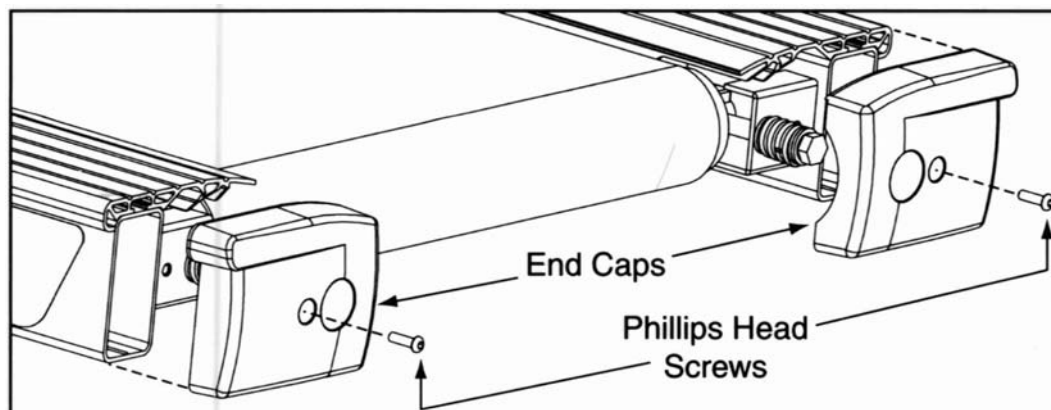


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- C. Remove the other side rail and set aside.
3. Check belt condition.
    - A. Run your hand under the belt on the top of the deck surface. If you notice any excessive ridges, furrowing or cracks in the deck or if the deck feels very rough, the surface may have worn down to a point where it could start to cause excessive wear to the undersurface of the running belt. For running belt replacement information see Running Belt in the Removal and Replacement chapter.
  4. Replace the side rails and plastic end caps.
    - A. Slide the two side rails back on being sure to catch the rail guides.
    - B. Attach the plastic end caps with the Phillips screwdriver.

*NOTE: For running belt replacement information see Running Belt in the Removal and Replacement chapter.*

*! CAUTION: Do not use a running belt made for a different model treadmill. The belts are specific for each treadmill and may be torn up or cause excessive current and damage the electronics if used in combination with another deck.*

Rotating the Deck - You may rotate the deck but do not flip the deck. The wax surface is only on the top side of the deck. Do not rotate the belt. The belt is directional. See Running Belt and Running Deck in the Removal and Replacement chapter.

Belt and Deck Surfaces - To minimize the effect of friction between the deck and the running belt, Cybex recommends cleaning the underside of the running belt and the top on the running deck surface by wiping them with a clean, dry towel. This simple procedure should be done approximately four times a year to prevent premature wear of the deck, running belt and the drive motor system.

# 4 - Troubleshooting

## Test Mode

To enter *Test Mode* press and hold down any key on the display and turn the power switch on (I). "TEST" and "rx.Xx" will now be displayed on the main screen to show software revision.

*NOTE: If Test Mode occurs without holding any keys, a key may be stuck closed. If "KEY" and a number is displayed you can determine which key is stuck closed by referring to the diagram below. You may need to replace the upper and/or lower display overlay depending on which key is stuck closed. See Figure 1.*

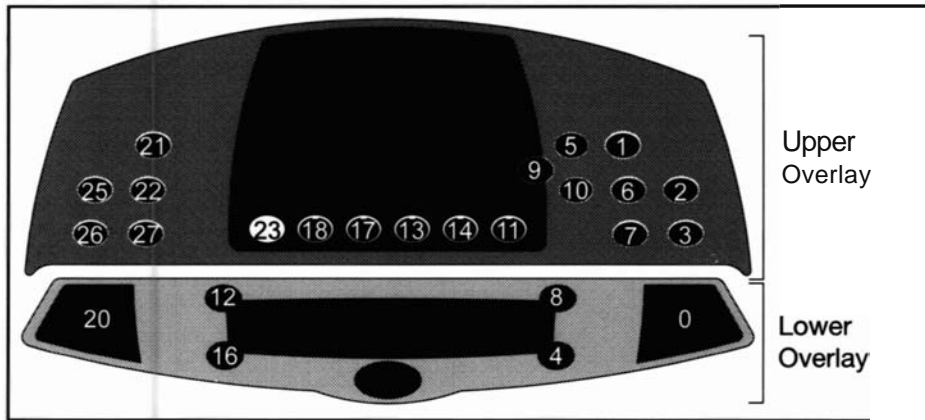


Figure 1

## LED Functions

- Endurance LED Brush sense status. Off =OK, On =sense activated
- Sport LED E-stop status. Off =relay closed, On =relay open
- Hills LED Speed sense
- Heart LED Heart rate signal
- Manual LED Salutron (on if present, blinking off)
- Age LED Receive CSAFE data
- Target LED Transmit CSAFE data
- Incline LED 0% switch (off =<0%, on >0%)

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## Key Functions

While in *Test Mode* press the following keys for desired information:

Start	Starts the belt at 1.0 mph (1.6 kph)
End	Exits diagnostics to 'Dormant'
Hills	Lights each LED segment as key is pressed again.
Endurance	Lights each LED digit as key is pressed again.
Sport	Lights all LEOs on console.
Manual Key	Toggles E-Stop relay. Confirm by pulling the E-Stop key off to hear the relay click off, then replacing it to hear it click on.
Incline ▲	Run elevation motor up.
Incline ▼	Run elevation motor down.
Speed ▲	Increase drive motor speed.
Speed ▼	Decrease drive motor speed.
Distance	Press once for odometer information (DST) to appear in the speed window. Press twice for hourmeter information (HRS) to appear in the speed window. Press three times for number of starts information (USES) to appear in the speed window. Press four times for brush wear mileage up to 100 miles since activated or "--" if it has not been activated (BRUSH).
Pace	Displays and cycles through error log, up to 32 errors can be stored.
Scan	Clears error log when pressed twice while in error log mode.
Watts	Value of motor loads in <i>AID</i> counts. The number range is relative to motor current and goes from 0-225.
Calories	Displays motor pulse width (PWM) value. Range is 0-143.
Heart	Displays the number of starts per program
Enter	Press twice to run calibration when PWM is displayed. Also required to save setup values.

## Error Codes

*NOTE: A processor upset can cause any of bAdO through 4. If the chip is misprogrammed the display typically won't run at all. Try turning the treadmill to the off (0) position and back on (1). If bAdO through 4 still occurs you may need to replace the upper display board. See Upper Display Board in the Removal and Replacement section.*

born	uninitialized EEPROM (loads defaults & enters test mode). Only displayed on initial power up of a new display board.
bAdO	EPROM checksum failure
bAd1	Faulty microprocessor reset

bAd2	Internal RAM error
bAd3	Watchdog fault type 1
bAd4	Watchdog fault type 2
brush	Motor brush wear. "BRUSH" scrolls while in Dormant Mode. Err9 will occur after 100 miles (160 kilometers) and the treadmill will be disabled. See Motor Brush in the <i>Removal and Replacement</i> section.
Err1	Belt didn't start (or no speed sense). See Speed Sensor Adjustment below.
Err2	Underspeed (2 mph for 2 seconds without correction in process)
Err3	Speed sense lost. See Speed Sensor Adjustment below.
ErrS	No 0 switch sense within timed limits. This is declared when the timed elevation reaches -2% without tripping the index.
Err6	Overspeed (1 mph for 1 second or 2 mph for 2 seconds without correction)
Err?	EEPROM error (memory lost, loads new defaults, enters test mode)
Err8	Sudden acceleration or deceleration of belt
Err9	Brush wear too low. Indicator has been activated for over 100 miles.
ErrE	0% always on (or switch disconnected or wired backwards). This means that timed elevation has gone up 2% and the index is still sensed.

## Speed Sensor Adjustment

### Tools Required

- Phillips head screwdriver

1. Turn the power off.
  - A. Turn the main power switch on the front panel to the off (0) position. (It is labeled I/O).
  - B. Unplug the treadmill from the power outlet.
2. Remove the motor cover.
  - A. Remove the two Phillips head screws that fasten the motor cover to the frame.
  - B. Lift the cover from the front and remove it from the treadmill. Set the cover and screws aside.

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3. Adjust the speed sensor gap.
  - A. Loosen the Phillips head screw. Adjust the gap between the speed sensor and the flywheel should be between 1/4 - 5/16" (.635 - .795 cm).
  - B. Tighten the Phillips head screw.
4. Attach the motor cover.
  - A. Place rear of the motor cover in the rear guide holes.
  - B. Lower the front end of the motor cover and install the two Phillips head screws.
5. Turn power on (I) and test for any speed errors.
6. If any errors occur, readjust the speed sensor.

# 5 - Removal & Replacement

## Running Deck

**NOTE:** This procedure will cover the running deck, running belt, front roller, rear roller and drive belt.

### Tools Required

- Phillips head screwdriver
- 1/2" wrench
- 3/8" wrench
- Work gloves

1. Turn the power off.
  - A. Turn the main power switch in the front panel to the off (0) position. (It is labeled I/O).
  - B. Unplug the treadmill from the power outlet.
2. Remove the motor cover.
  - A. Remove the two Phillips head screws that fasten the motor cover to the frame.
  - B. Lift the cover from the front and remove it from the treadmill. Set the cover and screws aside. See Figure 1.

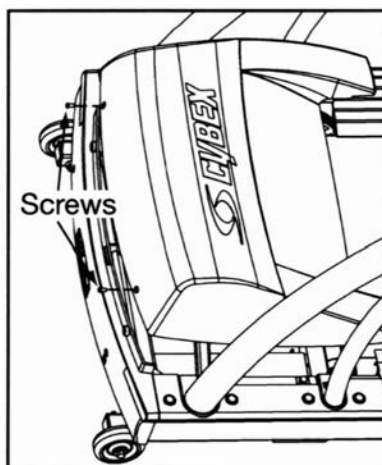


Figure 1

**! WARNING:** When removing the side rails be sure to wear work gloves to protect against any sharp edges.

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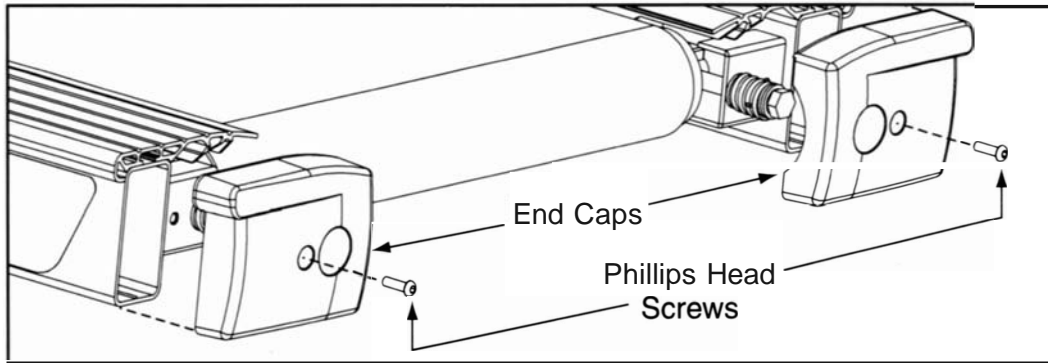


Figure 2

3. Remove the plastic end caps and side rails.
  - A. Remove the Phillips head screws that fasten each of the plastic end caps in place and set aside. See Figure 2.
  - B. Grasp the side rail and firmly slide it out toward the front of the treadmill.
  - C. Remove the other side rail and set aside.
4. Remove the rear roller.
  - A. Loosen and remove the two rear roller bolts. See Figure 3. Loosen each bolt evenly, making sure not to loosen either bolt too many turns before moving to the other bolt. Remove the bolts, springs, nuts and washers and set them aside.
  - B. Lift one side of the rear roller and slide it out of the running belt.

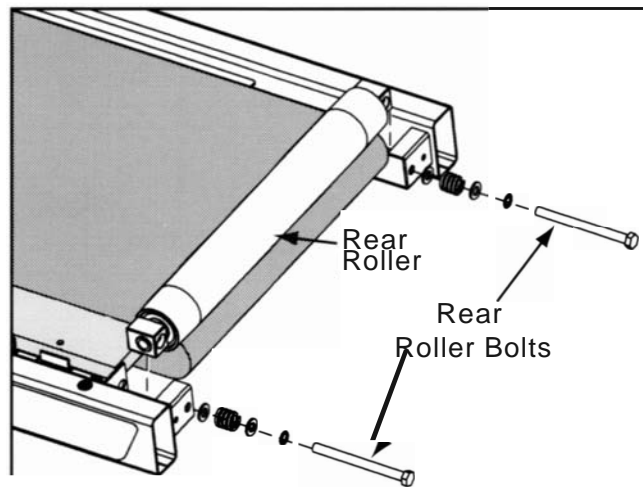


Figure 3

5. Loosen the deck.
  - A. Remove the ten bolts, eighteen washers and two belt retaining washers which hold the deck in place. Set these aside. See Figure 4.



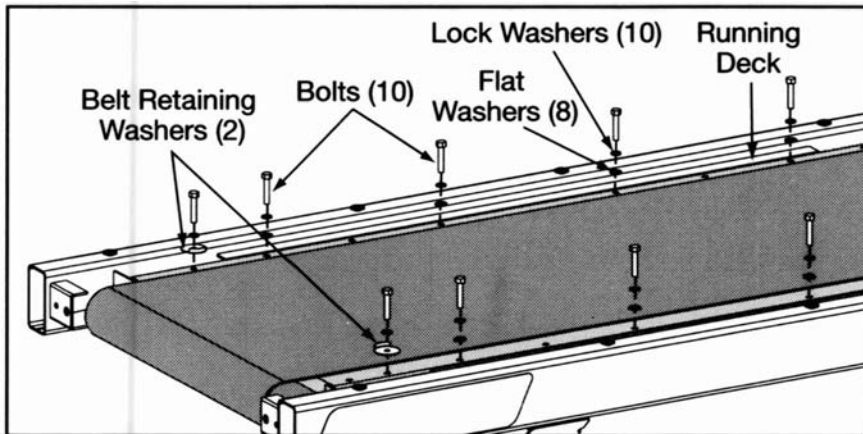


Figure 4

6. Loosen the drive belt.
  - A. Locate the mounting bolt on top of the drive belt tensioning assembly. See Figure 5.
  - B. Remove the two steel bar springs, along with the drive belt tensioning roller and set aside.

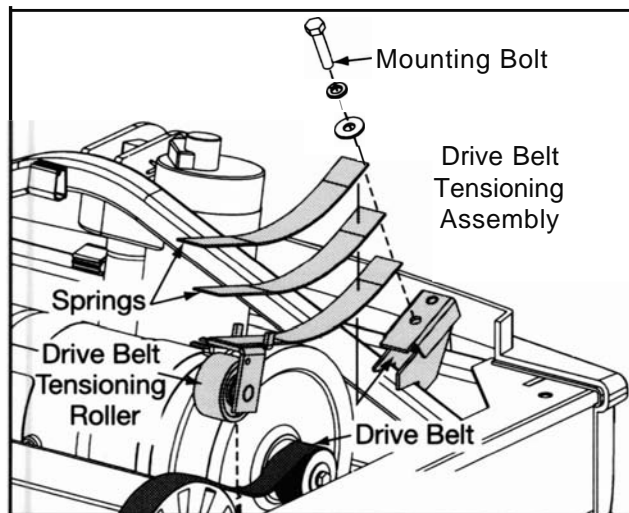


Figure 5

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**7. Remove the front roller.**

- A. Loosen and remove the two bolts and four washers that fasten the front roller to the front end assembly. See Figure 6.
- B. Remove the drive belt from the drive pulley.
- C. Lift and slide the roller out of the running belt.

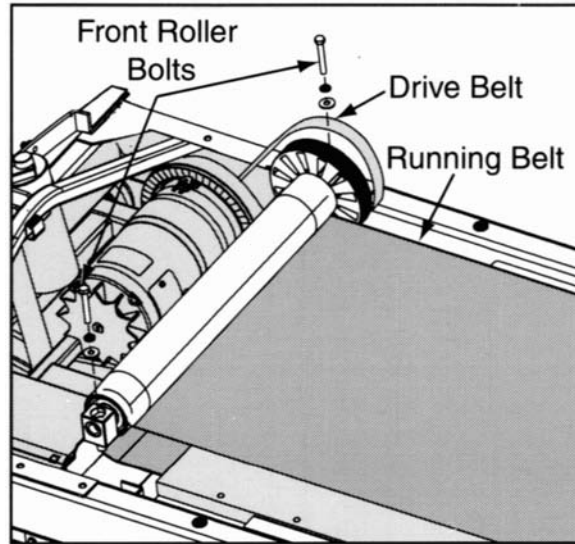


Figure 6

**8. Remove the running deck and running belt.**

- A. Lift one side of the deck and slide it out of the running belt.
- B. Look for the directional arrow inside the running belt. If the old arrow has rubbed off, draw a new arrow pointing the direction of travel. See Figure 7.

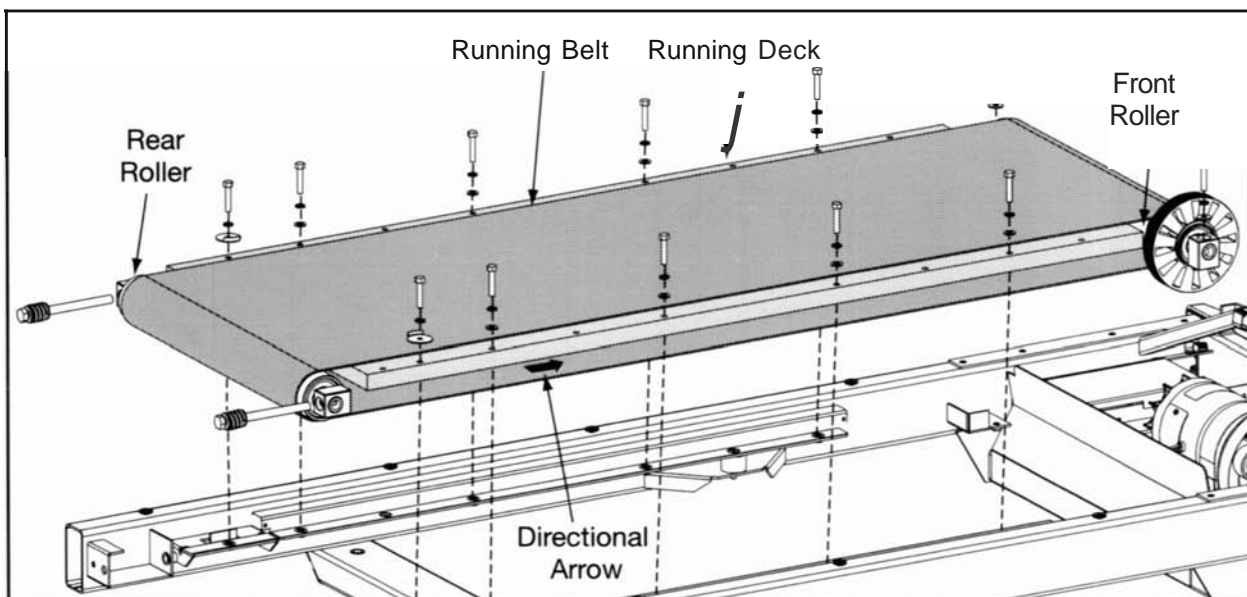


Figure 7

C. The running belt is now free to remove from the treadmill.

**NOTE:** *If you are reusing the same belt be sure to note which way the belt is positioned before removing it from the treadmill. The directional arrow inside the belt may have rubbed off. Make a new arrow if needed.*

**! CAUTION:** *Do not use a running belt made for a different model treadmill. The belts are specific for each treadmill and may be torn up or cause excessive current and damage the electronics if used in combination with another deck.*

## Running Belt

9. Position the running belt and running deck.

- A. Locate the directional arrow stamped on the inside of the belt. The arrow should point the direction of travel. See Figure 7. Place the running belt in position.
- B. Place the deck in position with the wax side up and then continue with step 10.

## Front Roller

10. Attach the front roller.

- A. Slide the front roller into the running belt. Be sure the drive belt is around the fly wheel drive pulley and the front roller before attaching the front roller.
- B. Loosely attach the two bolts and four washers that fasten the front roller to the front end assembly. See Figure 6.
- C. Tighten each of the two bolts evenly. Make sure not to tighten one bolt too many turns before moving to the other bolt.

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## Drive Belt

### 11. Re-tension the drive belt.

- A. Place the drive belt tensioning roller in position under the front bracket on the drive belt tensioning assembly. See Figure 5.
- B. Place the two steel bar springs over the drive belt tensioning roller plate and under the front bracket on the drive belt tensioning assembly. Be sure springs are firmly seated against the stop under the drive belt retainer. See Figure 5.
- C. Be sure that the pulley is aligned with the drive belt.
- D. Place the washers and mounting bolt on top of the drive belt tensioning assembly. See Figure 5. Tighten the mounting bolt while keeping the pulley aligned with the drive belt.

**NOTE:** *The deck top is waxed and should not be flipped top to bottom. However, the deck can be rotated 180 degrees. The holes used are symmetrical.*

### 12. Attach the running deck.

- A. Attach the ten bolts, eighteen washers and two belt retaining washers which hold the deck to the treadmill frame. See Figure 4.

## Rear Roller

### 13. Replace the rear roller.

- A. Slide the rear roller into the running belt.
- B. Loosely attach the bolts, springs, and washers, in position on the rear roller. See Figure 3.
- C. Tighten each of the bolts evenly. Make sure not to tighten one bolt too many turns before moving to the other bolt.

### 14. Adjust the running belt tension and center the belt. See Running Belt Adjustments in the Preventative Maintenance chapter. Then continue with step 15.

**! WARNING:** *When installing the side rails be sure to wear work gloves to protect against any sharp edges.*

### 15. Reinstall the side rails and end caps.

- A. With work gloves on, slide the side rails onto the base and guide them onto the four mounting studs on each side of the base.

- B. Reinstall each end cap with its Phillips head screw.

16. Attach the motor cover.

- A. Place the rear of the motor cover in the rear guide holes.
- B. Lower the front end of the motor cover and install the two Phillips head screws that hold it in place.

## Drive Motor

*NOTE: This procedure will cover the drive motor and motor brush.*

### Tools Required

- Phillips head screwdriver
- 1/2" wrench
- 9/16" wrench
- 3/8" wrench
- Torque wrench
- Safety glasses

**! WARNING:** *Keep wet items away from inside parts of the treadmill. Electrical shock could occur even if the treadmill is unplugged.*

1. Turn the power off.
  - A. Turn the main power switch in the front panel to the off (0) position.
  - B. Unplug the treadmill from the power outlet.
2. Remove the motor cover.
  - A. Remove the two Phillips head screws that fasten the motor cover to the frame.
  - B. Lift the cover from the front and remove it from the treadmill. Set the cover and screws aside. See Figure 1.
3. Disconnect the cables.
  - A. Locate the clips that hold the shield over the lower control board. Remove the lower control board shield from the two clips. The clips will stay in place.
  - B. Disconnect the red and black motor leads from the lower control board.

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- C. Disconnect the brush wear indicator wire (yellow) from the lower control board.
  - D. Disconnect the speed sensor cable (four pin connector) from the lower control board.
4. Remove the drive belt tensioner.
- A. Loosen and remove the mounting bolt on top of the drive belt tensioning assembly. See Figure 5.
  - B. Remove the two steel bar springs, along with the drive belt tensioning roller. Set them aside.

*NOTE: If you are replacing the motor with a new one follow step 5. If not, skip to step 6.*

5. Disconnect the flywheel and speed sensor.
- A. Locate the mounting bolt which holds the flywheel in place. Remove the bolt and two washers and set them aside. See Figures 8 and 9.
  - B. Remove the flywheel and motor key. Set these aside.
  - C. Locate the two Phillips head screws which hold the speed sensor bracket on to the side of the motor. Remove the two screws and set them aside with the speed sensor assembly. See Figures 8 and 9.

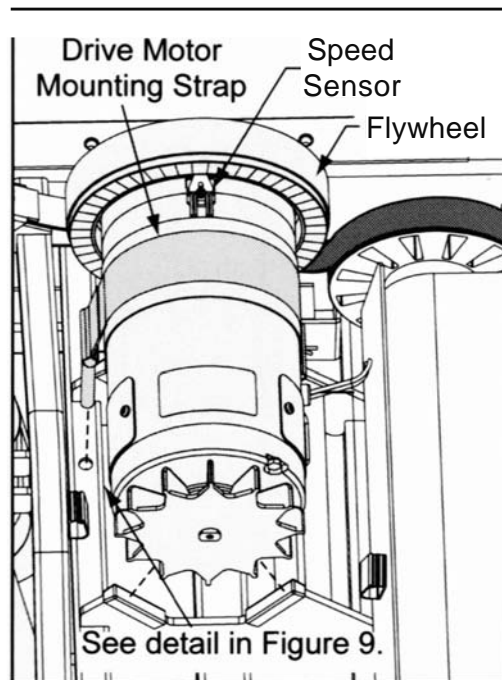


Figure 8

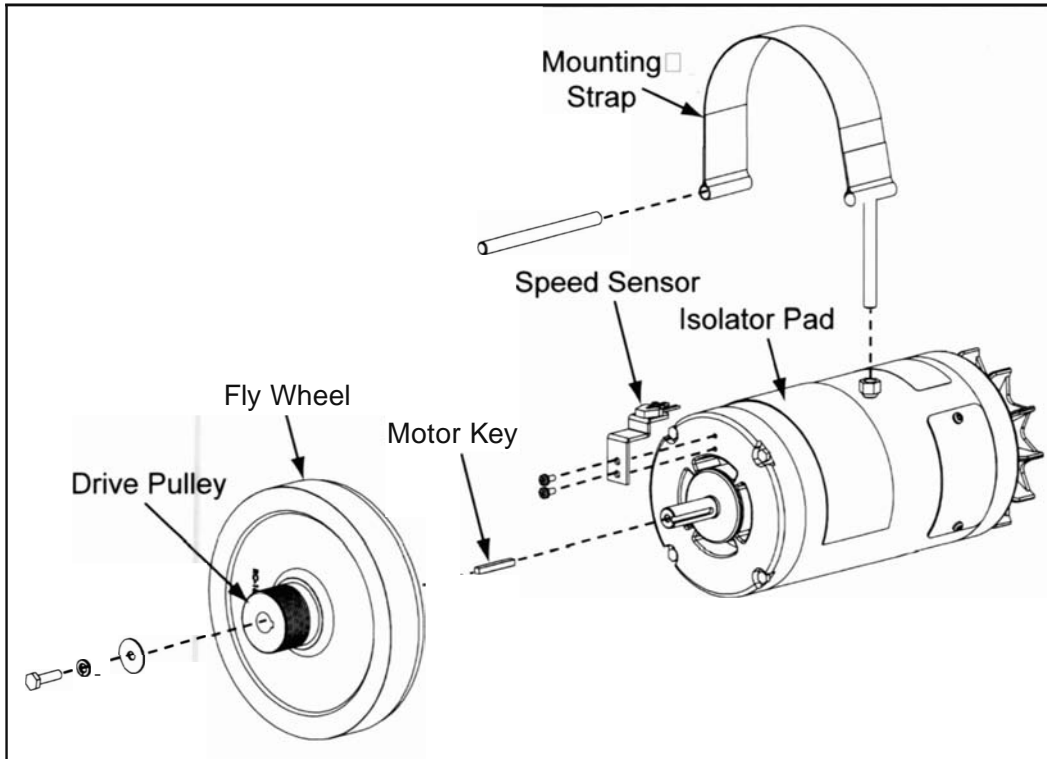


Figure 9

6. Loosen the drive motor mounting strap.
  - A. Locate the mounting nut at the end of the mounting strap. It is toward the front of the treadmill. See Figures 8 and 9.
  - B. Loosen and remove the nut. Set the nut aside. See Figures 8 and 9.
  
7. Remove the drive motor.
  - A. Push the drive belt away from the front pulley.
  - B. Carefully lift the drive motor out of the front end assembly.
  
- NOTE: If you are replacing the motor with a new one continue with step 8. If not, skip to step 9.*
  
8. Connect the speed sensor and flywheel.
  - A. Position the speed sensor assembly bracket over the two holes in the side of the motor. Attach the two Phillips head screws which hold the bracket in place. See Figures 8 and 9. See *Speed Sensor Adjustment* in the Troubleshooting chapter if necessary.
  - B. Place the motor key in the slot of the motor. Line up the flywheel slot with the motor key.

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- C. Replace the two washers and bolt that hold the flywheel in place. Tighten the bolt.

## Motor Brush

**NOTE:** *If you are not replacing the motor brushes skip to step 14.*

**NOTE:** *When IIBrush<sub>ii</sub> scrolls across screen it indicates motor brush wear. The treadmill will run 100 miles (161 kilometers) longer and then shutdown with Err9.*

**NOTE:** *It is recommended that both drive motor brushes be replaced as a pair. This will ensure even commutator contact and brush wear.*

### 9. Remove the drive motor access panels.

- A. Unscrew the two Phillips head screws on each motor access panel.

### 10. Remove the motor brushes.

- A. Loosen, but don't remove, the top Phillips head screws and remove the red brush wires. See Figure 10.
- B. Unplug the yellow brush wear indicator wire on the brush that is toward the motor lead exit. See Figure 10. This brush wears 20% faster than the other brush.

**! CAUTION:** *The spring will be loose and could fall into the motor or be lost.*

- C. Press the brush holder bracket in and to the center. Slowly pull the bracket and spring out. It will be spring loaded. Set the bracket and the spring aside. The brush can now be removed from the drive motor.

### 11. Examine the brushes and commutator.

- A. Examine for signs of wear such as arcing, pitting, burning, or uneven wear. Replace brush if it shows signs of excessive wear *and/or* is cracked or broken.

**NOTE:** *The motor brush must be replaced if it is worn to 518<sup>th</sup> (.625 cm) or less in length or if brush indicator wire is exposed.*

### 12. Replace the brushes.

- A. Slide the brushes (new or original) into the motor brush holder.
- B. Place the red brush wires under each Phillips head screw. Tighten each screw. Connect the yellow brush wear indicator wire in the access panel nearest the motor lead exit.



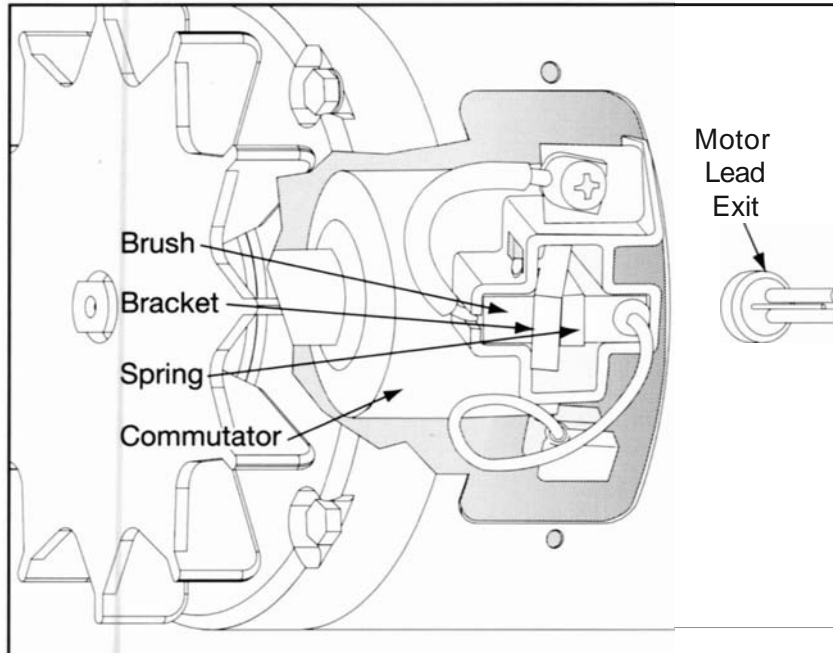


Figure 10

- C. Place a spring and bracket over each brush. Hook the bracket in place. See Figure 10.

13. Replace the drive motor access panels.

- A. Attach each of the access panels with the two Phillips head screws.

*NOTE: When installing the drive motor, rotate the motor cables toward the top so that the cables don't get pinched or damaged. Align the drive pulley with the drive belt before tightening the motor.*

14. Attach the drive motor.

- A. Carefully lower the drive motor in position. Be sure the four motor pads are still in place on the base of the treadmill and the motor doesn't contact the frame. Place the drive belt loosely around the drive pulley.
- B. Place the mounting strap around the motor over the isolator pad. The metal mounting strap should not contact the motor. Place the tee bar inside the hole on the base of the treadmill and loosely hand-tighten the nut underneath. See Figure 8.
- C. Be sure that the drive pulley is aligned with the drive belt. Using a torque wrench tighten the nut to 50 in-lbs. Do not overtighten.

15. Re-tension the drive belt.

- A. Place the drive belt onto the drive pulley.

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- B. Place the two steel bar springs and the drive belt tensioning roller plate under the front bracket on the drive belt tensioning assembly. Be sure **springs** are firmly seated against the stop under the drive belt retainer. See Figure 5.
- C. Place the washers and mounting bolt on top of the drive belt tensioning assembly. See Figure 5. Tighten the mounting bolt while keeping drive belt aligned with the drive pulley and the front roller pulley.

*NOTE: The lower control board is labeled "red" and "black". When connecting the drive motor cables, make sure that the red wire plugs into the red and black wire plugs into the black.*

16. Connect the motor cables.

- A. Connect the red and black motor cables into the lower control board. The red cable should go where the board is labeled "red" and the black cable "black". See Figure 11.

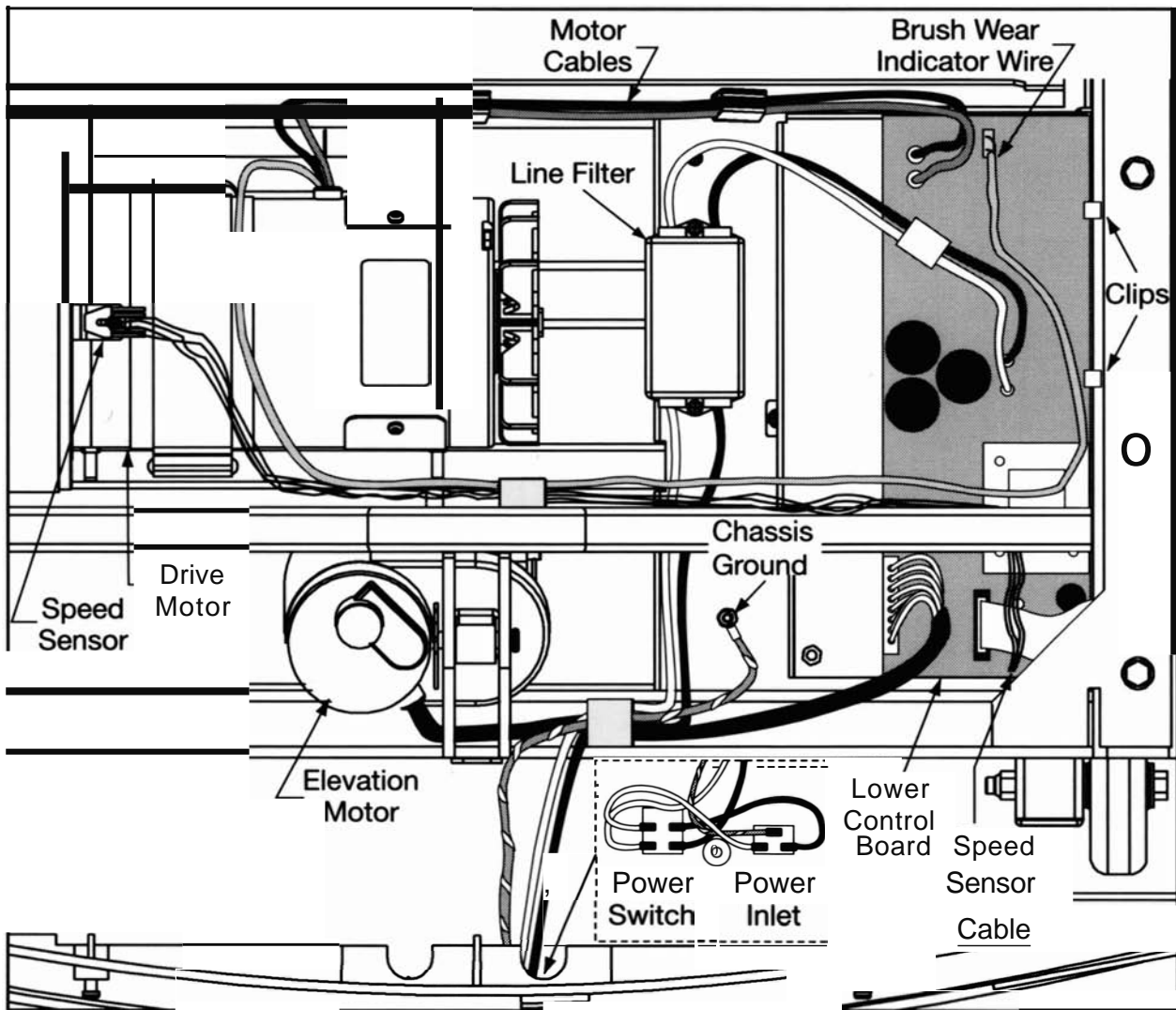


Figure 11

- B. Connect the brush wear indicator wire (yellow) into the lower control board.
- C. Connect the speed sensor cable (four pin connector) into the lower control board.

**17. Attach the motor cover.**

- A. Place the rear of the motor cover in the rear guide holes.
- B. Lower the front end of the motor cover and install the two Phillips head screws that hold it in place.

**Elevation Motor**

**Tools Required**

- Phillips head screwdriver
- Block of wood 4" (10 cm) tall

**NOTE:** Two people are recommended for this procedure.

**NOTE:** Elevation motor must be fully stopped at its lower limit for this procedure.

**1. Turn the power off.**

- A. Turn the main power switch in the front panel to the off (0) position.
- B. Unplug the treadmill from the power outlet.

**2. Remove the motor cover.**

- A. Remove the two Phillips head screws that fasten the motor cover to the frame.
- B. Lift the cover from the front and remove it from the treadmill. Set the cover and screws aside. See Figure 1.

**3. Remove the elevation motor.**

- A. Unplug the elevation motor from the lower control board. See Figure 11.
- B. Support the front end of the treadmill on a wooden block. This will unload the elevation swing arm.
- C. Remove the lower and upper cotter pins. See Figure 12. Support the elevation motor while removing the clevis pins.
- D. Lift the elevation motor from the front end assembly.

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4. Replace the elevation motor.
  - A. Lower the elevation motor into the front end assembly.
  - B. Install the upper clevis pin (longer) and cotter pin. See Figure 12.
  - C. Lift the elevation swing arm and install the lower clevis pin (shorter) and cotter pin.

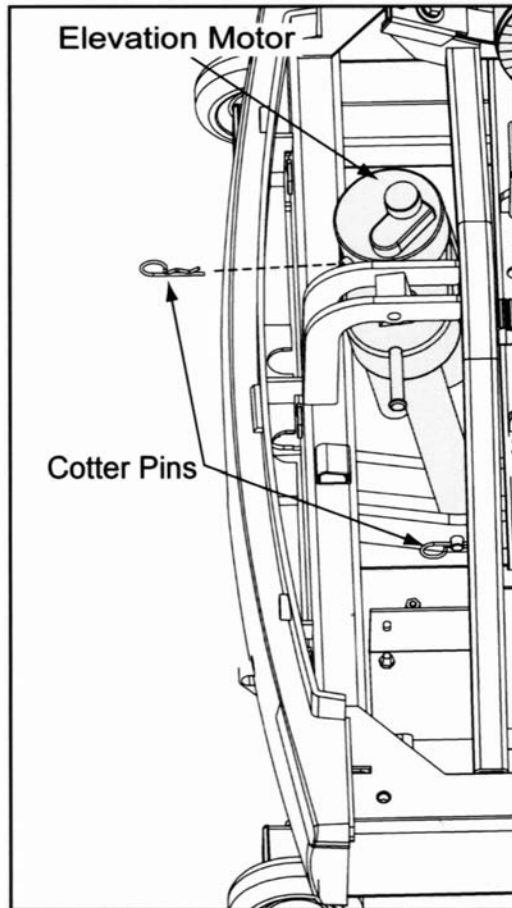


Figure 12

5. Calibrate the elevation motor.
  - A. The switch should be at zero elevation before adjusting the tube nut. If necessary connect the elevation motor, bring the elevation up to 1% incline and then back down to 0%. Adjust the tube nut to 11 7/8 - 11 15/16" (30.16 - 30.32 cm) from center to center of the mounting holes. No tools are needed to adjust the tube nut.
6. Test the elevation motor.
  - A. Connect the elevation motor into the lower control board.
  - B. Connect the main power cord into the front panel. Turn the power on (I).
  - C. Start the treadmill in *Manual Mode* and raise the elevation to 6%.
  - D. Remove the wooden block from under the front end assembly. This will load the

- elevation assembly.
  - E. Lower the elevation.
  - F. Stop the treadmill. Turn the main power switch in the front panel to the off (0) position.
7. Attach the motor cover.
    - A. Place the rear of the motor cover in the rear guide holes.
    - B. Lower the front end of the motor cover and install the two Phillips head screws that hold it in place.

## Lower Control Board

### Tools Required

- Phillips head screwdriver

1. Turn the power off.
  - A. Turn the main power switch in the front panel to the off (0) position.
  - B. Unplug the treadmill from the power outlet.
2. Remove the motor cover.
  - A. Remove the two Phillips head screws that fasten the motor cover to the frame.
  - B. Lift the cover from the front and remove it from the treadmill. Set the cover and screws aside. See Figure 1.
3. Remove the lower control board bracket.
  - A. Locate and remove the lower board shield. Slide in out of the two clips that hold the shield in place.
  - B. Unplug the cable connections plugged into the lower control board. This includes the power in, drive motor, elevation motor, speed sensor, brush wear indicator and display cables. See Figure 11.
  - C. Using a Phillips head screwdriver, loosen and remove the mounting screw that fastens the bracket to the base. Remove the entire bracket with its lower board.
4. Replace the lower control board bracket.
  - A. Position the lower control board bracket in place on the base.
  - B. Using a Phillips head screwdriver, attach the mounting screw that fastens the bracket to the base.

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- C Plug the cable connections into the lower control board. This includes the power in, drive motor, elevation motor, speed sensor, brush wear indicator and display cables. The white wire connects to the terminal "AC NEUT" or "L1" on the 220V. The black wire connects to the terminal "AC L1NE" or "L2" on the 220V. See Figure 11.
- D. Arrange the display cable in a service loop. See Figure 13.
- E. Attach the lower board shield.

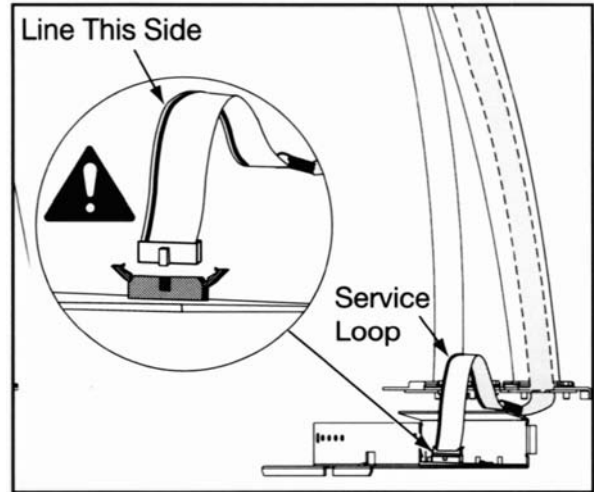


Figure 13

- 5. Attach the motor cover.
  - A. Place the rear of the motor cover in the rear guide holes.
  - B. Lower the front end of the motor cover and install the two Phillips head screws that hold it in place.

## Power Cables

### Tools Required

- Phillips head screwdriver

*NOTE: This procedure will cover the power cables, line filter, power switch and power cord inlet.*

### Tools Required

- Phillips head screwdriver

1. Turn the power off.
  - A. Turn the main power switch in the front panel to the off (0) position.
  - B. Unplug the treadmill from the power outlet.
2. Remove the motor cover.
  - A. Remove the two Phillips head screws that fasten the motor cover to the frame.
  - B. Lift the cover from the front and remove it from the treadmill. Set the cover and screws aside. See Figure 1.

3. Remove the power cables.

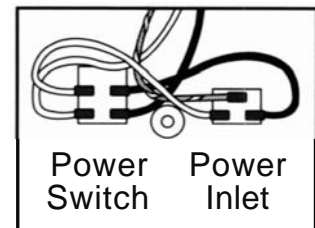


Figure 14

- A. Remove the front end cap by removing the three Phillips head screws which hold it in place.
- B. Unplug and remove the main power lines (black and white cables) from the front end cap, line filter, wire retaining clip and lower control board.

**NOTE:** *If you are replacing the line filter with a new one follow step 5 now and then return to step 4.*

**4. Replace the power cables.**

- A. locate the longer of the two black and white cables. Plug the cables into the front end cap and arrange as shown in Figure 14.
- B. Place the power cables in the wire retaining clip at the front of the treadmill. See Figure 11.
- C. Plug the other end of the long cables into the line filter at the end labeled "line".
- D. locate the side of the line filter labeled "load". Plug the short white cable in the load side of the line filter. The white should be across from the white cable. The black cable should be across from the black cable. See Figure 11.
- E. Connect the cables from the line filter to the lower control board. The white wire connects to the terminal 'I1' or 'L1' on the 220V. The black wire connects to the terminal 'L2' or 'L2' on the 220V. See Figure 11.

**Line Filter**

**NOTE:** *If you are replacing the line filter follow step 5. If not, skip to step 6.*

**5. Replace the line filter.**

- A. Remove the two Phillips head screws which hold the line filter in place.
- B. Put the new line filter in position and attach the two Phillips head screws, then return to step 4.

**Power Switch**

**NOTE:** *If you are replacing the power switch with a new one follow step 6. If not, skip to step 7.*

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6. Replace the main power switch if needed.
  - A. Unplug the old power switch and replace it by plugging in the new power switch.

## Power Cord Inlet

*NOTE: If you are replacing the power cord inlet with a new one follow step 7. If not, skip to step 8.*

7. Replace the main power cord inlet if needed.
  - A. Remove the two Phillips head screws which hold the power cord inlet in place.
  - B. Plug the main power lines (black and white wires) and the ground wires (green and yellow) into the lower control board. See Figure 11 and 14.

*NOTE: Refer to the Diagrams section to see a wiring diagram.*

8. Replace the lower control board shield.
  - A. Check to see that all of the cables are connected firmly in their proper place. Be sure to route the wires through the retaining clips as shown in Figure 11.
  - B. Attach the shield over the lower board bracket using the two clips. The red and black motor cables will go under the corner of the shield.
9. Replace the front end cap.
  - A. Replace the front end cap using the three Phillips head screws.
10. Attach the motor cover.
  - A. Place the rear of the motor cover in the rear guide holes.
  - B. Lower the front end of the motor cover and install the two Phillips head screws that hold it in place.

## Display Board

### Tools Required

- Phillips head screwdriver

1. Turn the power off.
  - A. Turn the main power switch in the front panel to the off (0) position.
  - B. Unplug the treadmill from the power outlet.



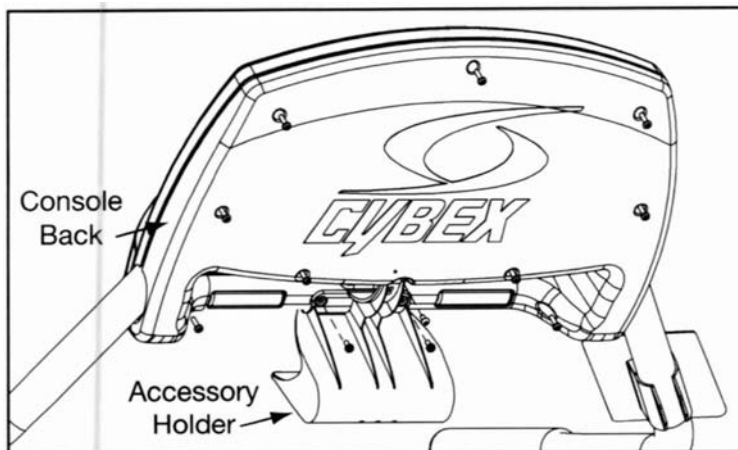


Figure 15

2. Remove the console back.
  - A. Remove the eleven Phillips head screws on the console back. Leave the top screw which holds the accessory holder in place. The top screw will keep the accessory holder in place on the console back. Set the console back and screws aside. See Figure 15.
3. Remove the console front.
  - A. Remove the six Phillips head screws and two star washers which hold the console front to the handlebar.
4. Remove the display board.
  - A. Disconnect all seven cables from the display board (also, the CSAFE connector if applicable). See Figure 16.
  - B. Remove the seven Phillips head screws that fasten the display board to the console. Hold the display board so that it doesn't fall.
  - C. Remove the display board.
5. Attach the display board.
  - A. Place the display board in position on the console front. Attach the display board with the seven Phillips head screws that hold the board to the console. See Figure 16.
6. Connect the cables.
  - A. Connect all seven cables from the display board (and the CSAFE connector if applicable). See Figure 16.
7. Attach the console back.
  - A. Attach the console back and accessory holder with the eleven screws.

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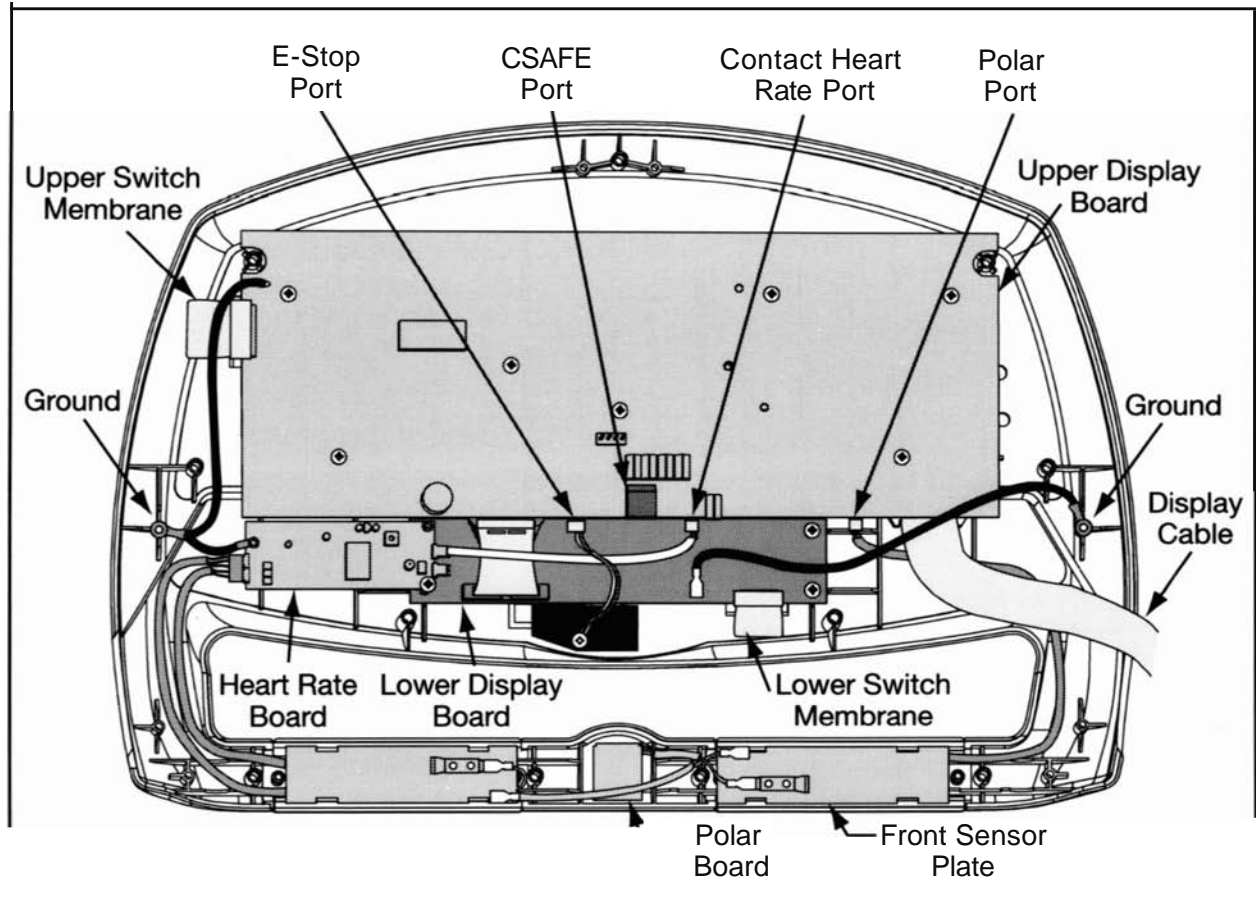


Figure 16

## Heart Rate Board

### Tools Required

- Phillips head screwdriver

*NOTE: This procedure will cover the heart rate board and handset board.*

1. Turn the power off.
  - A. Turn the main power switch in the front panel to the off (0) position.
  - B. Unplug the treadmill from the power outlet.
2. Remove the console back.
  - A. Remove the eleven Phillips head screws on the console back. Leave the top screw which holds the accessory holder in place. The top screw will keep the accessory holder in place on the console back. Set the console back and screws aside. See Figure 15.

3. Remove the heart rate board. See Figure 16.
  - A. Remove the two small Phillips head screws and two spacers which hold the heart rate board in place.
  - B. Disconnect the molex connectors and ground cable from the heart rate board.

*NOTE: If you don't need to remove the handset board skip to step 6.*

## Lower Display Board

4. Remove the lower display board.
  - A. Remove the three Phillips head screws which hold the lower display board in place.
  - B. Disconnect the three cables from the lower display board.
5. Attach the lower display board.
  - A. Attach the three Phillips head screws which hold the lower display board in place.
  - B. Connect the fast-on cable, ribbon cable and flextail connector to the lower display board. See Figure 16.
6. Attach the heart rate board.
  - A. Connect the molex connectors and ground cable from the heart rate board.
  - B. Attach the two small Phillips head screws and two spacers which hold the heart rate board in place.
7. Attach the console back.
  - A. Attach the console back and accessory holder with the eleven screws.

## Polar Board

### Tools Required

- Phillips head screwdriver

1. Turn the power off.
  - A. Turn the main power switch in the front panel to the off (0) position.

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- B. Unplug the treadmill from the power outlet.
2. Remove the console back.
    - A. Remove the eleven Phillips head screws on the console back. Leave the top screw which holds the accessory holder in place. The top screw will keep the accessory holder in place on the console back. Set the console back and screws aside. See Figure 15.
  3. Remove the Polar board.
    - A. Remove the front sensor plate. There is no hardware holding it in. See Figure 16.
    - B. Disconnect the Polar cable from the upper display board. Remove the Polar board with its foil, foam and cable. There is no hardware holding the board in place.
  4. Attach the Polar board.
    - A. Connect the Polar cable into its port on the upper display board. Arrange the cable as shown in the illustration. Place the Polar board in position. See Figure 16.
    - B. Place the front sensor plate in its position over the Polar cable. There is no hardware holding it in. See Figure 16.
  5. Attach the console back.
    - A. Attach the console back and accessory holder with the eleven screws.

## Upper Display Cable

*NOTE: This procedure will cover the upper and lower display cables.*

### Tools Required

- Phillips head screwdriver
- Needle nose pliers

1. Turn the power off.
  - A. Turn the main power switch in the front panel to the off (0) position.
  - B. Unplug the treadmill from the power outlet.

2. Remove the console back.
  - A. Remove the eleven Phillips head screws on the console back. Leave the top screw which holds the accessory holder in place. The top screw will keep the accessory holder in place on the console back. Set these aside. See Figure 15.
  - B. Locate and unplug the connector that goes from the console display board into the the handlebar. See Figure 17.
3. Remove the left junction covers.
  - A. Remove the four Phillips head screws on the left junction covers. Set the junction covers and hardware aside. Left is from user's standpoint.

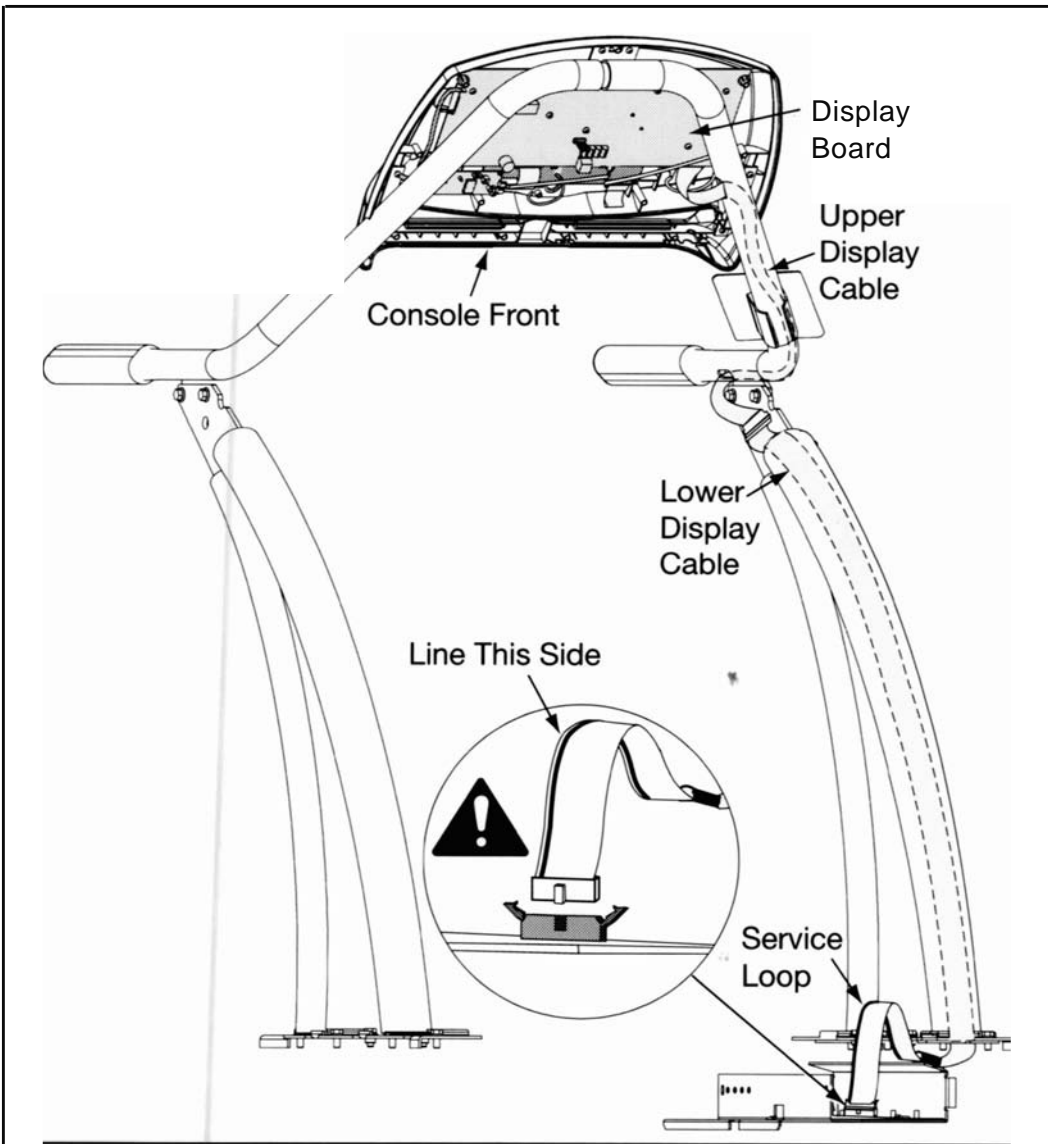


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4. Remove the display cable.
  - A. Locate the connector that goes from the upright into the handlebar. If needed gently use needle nose pliers to pull the cable out of the handlebar. Unplug the connector and pull the upper display cable out of the handlebar. See Figure 17.
5. Replace the upper display cable.
  - A. Locate the handlebar entry hole. It is hidden underneath a bracket near the bottom left of the handlebar.
  - B. Twist about 8" (20 cm) of the display cable. Twisting will help to prevent it from getting stuck when you push it through the handlebar tube.
  - C. Put the connector into the entry hole and push the twisted part through. Bend the remaining cable in half as you feed it into the tube.
  - D. When you see the connector appear at the exit hole on the handlebar, gently grab the connector with a pair of needle nose pliers and pull it out of the exit hole.
  - E. Plug the connector into the display board.

## Lower Display Cable

*NOTE: Before removing the lower display cable begin with the "Upper Display Cable" procedure above.*

6. Remove the motor cover.
  - A. Remove the two Phillips head screws that fasten the motor cover to the frame.
  - B. Lift the cover from the front and remove it from the treadmill. Set the cover and screws aside. See Figure 1.
7. Disconnect lower display cable.
  - A. Locate and unplug the cable connector that goes from lower control board into the left upright.
  - B. If the lower cable is still connected to the upper cable at the handlebar junction remove the junction covers as described in the "Upper Display Cable" procedure above. Open the retaining clip and remove the display cable from it. Then pull the old cable out of the upright tube and discard it.
8. Replace the lower display cable.
  - A. Locate the entry hole on the left upright near the top mounting bracket. See Figure 17.
  - B. Twist about 12" (30 cm) of the display cable. Twisting will help to prevent it from getting stuck when you push it through the upright tube.

- C. Put the connector into the entry hole and push the twisted part down. Bend the remaining cable in half as you feed it into the tube.
  - D. When the connector emerges at the bottom of the upright, gently pull it out of the exit hole.
  - E. Locate the lower control board in the base of the treadmill. Plug the connector into the lower control board. See Figure 17.
  - F. Connect the male and female cables at the junction. See Figure 17.
9. Attach the motor cover.
- A. Place the rear of the motor cover in the rear guide holes.
  - B. Lower the front end of the motor cover and install the two Phillips head screws that hold it in place.
10. Replace the covers and accessory holder.
- A. Attach the console cover with the eleven Phillips head screws on the console back. See Figure 15.
  - B. Locate the position for the junction covers. Replace the four Phillips head screws on the left junction covers.

## Display Overlays

*NOTE: This procedure will cover the upper and the lower display overlay. You may need to replace one or both. See "Test Mode" in the Troubleshooting chapter to determine which display needs replaced.*

### Tools Required

- Phillips head screwdriver

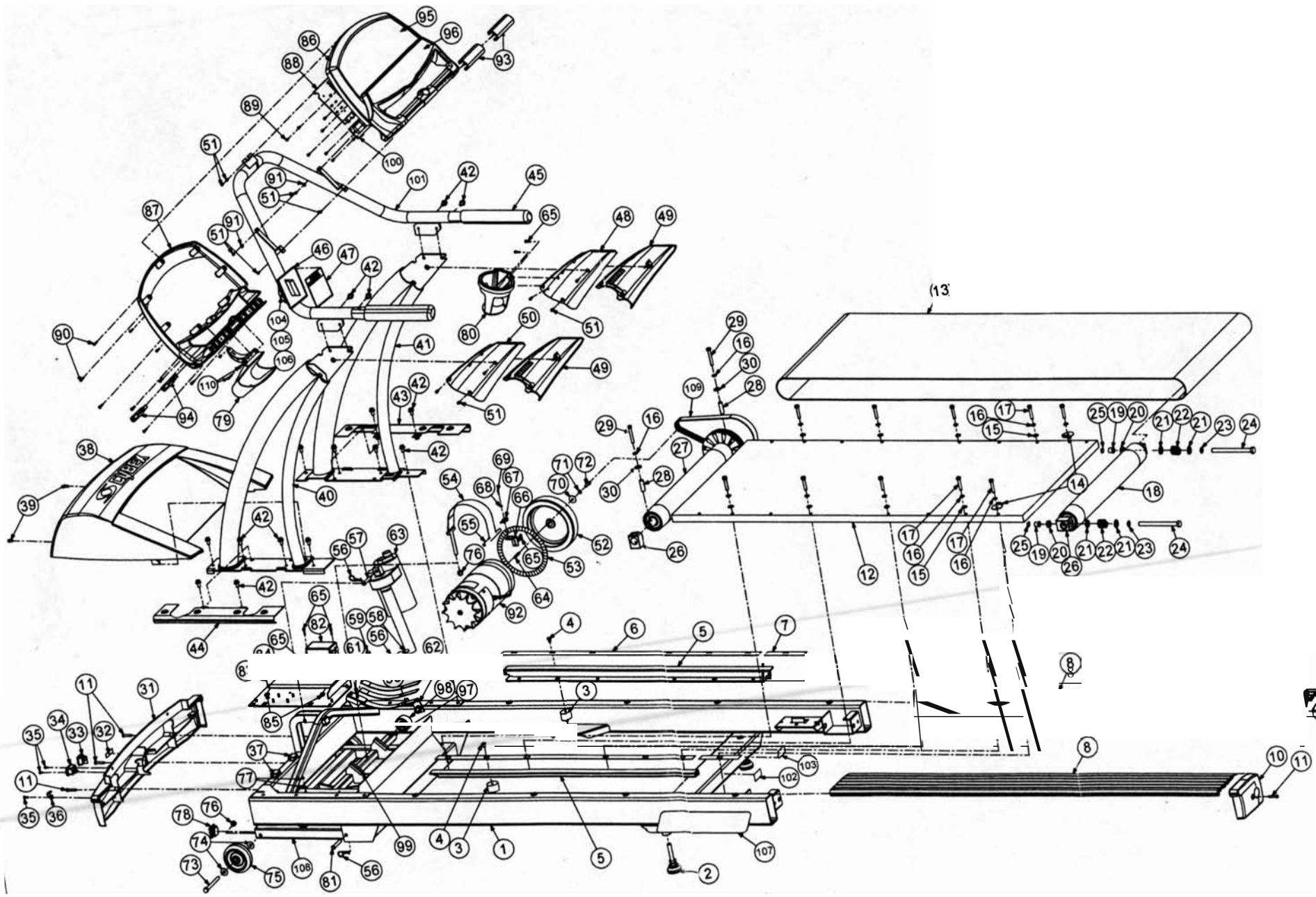
1. Turn the power off.
  - A. Turn the main power switch in the front panel to the off (0) position.
  - B. Unplug the treadmill from the power outlet.
2. Remove the console back.
  - A. Remove the eleven Phillips head screws on the console back. Leave the top screw which holds the accessory holder in place. The top screw will keep the accessory holder in place on the console back. Set the console back and screws aside. See Figure 15.

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3. Remove the display overlay(s).
  - A. Disconnect the switch membrane (upper and/or lower). See Figure 16.
  - B. Peel up a corner of the old display overlay and pull off the overlay(s).
  
4. Attach the display overlay(s).
  - A. Remove the paper backing from the new display overlay.
  - B. Carefully place the display overlay in position within the indentation on the console front.
  - C. Firmly rub the display overlay so that it adheres to the console.
  
5. Attach the console back.
  - A. Attach the console cover with the eleven Phillips head screws on the console back. See Figure 15.
  
6. Test the new display overlay.
  - A. Turn the main power switch in the front panel to the on (I) position.
  - B. Plug the treadmill into the power outlet.
  - C. Place the E-stop key in position if it is not already there.
  - D. Try each key to be sure that it functions properly.







# 6 - Diagrams

## Parts List

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	AF-15478	Weldment Frame
2	2	HX-15677	Foot Leveling
3	2	HX-15678	Rubber Mount .312-18
4	2	HS-15682	Screw, Flat Undercut, .312-18 x .50
5	2	AF-15683	Stiffener, Deck
6	2	HX-15693	Tape Strip, 1.2 x 39.45 x .01
7	2	HX-15756	Tape Strip, 1.2 x 6.0 x .01
8	2	PL-15595-2	Side Rails
9	1	PL-15562	End Cap, Right
10	1	PL-15563	End Cap, Left
11	5	HS-15688	Screw, Round Phil hd, .250-20 x 1.25
12	1	DK-15609	Deck, Running 24 x 54 x 1.00 thk
13	1	BD-15642	Belt, Running
14	2	HX-14956	Disk Guide, Deck Edge
15	8	HW-15689	Washer, Flat, .312 Narrow
16	13	HW-00165	Washer, 5/16, Lock
17	10	HS-15690	Bolt, Hex Head, .312-18 x 1.50
18	1	AL-15495	Rear Roller Assembly
19	2	HW-00590	Washer, Flange
20	2	HN-10029	Nut, 1/2-13
21	4	HW-10028	Washer, 1/2 Narrow Zinc
22	2	HX-11049	Spring, 1"
23	2	HB-00188	Washer, Thrust 1/2"
24	2	HS-15480	Bolt, 1/2-13 x 6 L, Tap
25	2	HX-13771	Ring Retain 5/8"
26	4	PL-15493	Clamp Roller Shaft
27	1	AL-15489	Front Roller Assembly
28	2	FM-15494	Spacer Front Roller Mount
29	2	HS-15755	Bolt, 5/16-18 x 2.25 L
30	3	HW-00189	Washer
31	1	PL-15564	Front Frame Cover
32	1	<b>DE-13906</b>	<b>115V Decal</b>
32	1	<b>DE-14230</b>	<b>230V Decal</b>
33	1	SW-10523	Switch, On/Off
34	1	EH-12208	Power Inlet
35	3	HS-15032	Screw, Tapping NO. 8
36	1	EH-13905	Clip, Wire 1/2"
37	7	HX-14416	Clip, Wire Retaining
38	1	PL-15565	Motor Cover
39	2	HS-15773	Screw, 1/4-20 x.50 RNHD PHIL BLK
40	1	AF-15462-1	Weldment Left Upright
41	1	AF-15462-2	Weldment Right Upright
42	16	HS-15717	Screw, 5/16-18 x .62 Hex Whiz-lock
43	1	FS-15594-1	Cover, Base Right
44	1	FS-15594-2	Cover, Base Left
45	2	HX-15499	Grip Handlebar
46	1	PL-15733	Holder, Warning Label

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ITEM NO.	QTY.	PART NO.	DESCRIPTION	ITEM NO.	QTY.	PART NO.	DESCRIPTION
47	1	DE-15740	Warning Label	98	1	HB-15549	Tensioner Wheel
48	1	AX-15843	Junction Cover	99	4	HX-15751	Pad, Drive Motor Ground Isolating
49	2	PL-15566	Junction Cover	100	1	AD-61532	Lower Display Board (Handset)
50	1	PL-15567	Junction Cover	101	1	AF-15457	Weldment Handlebar
51	8	HS-15706	Screw, 8-16 x .5 Arc. WB PNHD Phil	102	1	DE-14486	Serial Number
52	1	FM-15668-2	Flywheel Drive Pulley	103	1	DE-15739	ETL Label
53	1	DE-15666	Disc Speed Sensor	104	1	HN-11879	Nut, No. 8 Keps
54	1	AF-14148	Weldment Motor Strap 12.5 L x 3/8	105	1	HS-15833	Screw 8-32 x 1" PNHD Phil Blk Zinc
55	1	FM-14086	Pin Motor Strap	106	1	HX-15823	Spacer, Round
56	4	HP-10228	Pin Cotter Medalist 21-05	107	2	DE-15720	Decal Cybex Logo
57	1	HP-15695	Pin Clevis 3/8 Dia. x 1 41/64"	108	1	AF-15437	Elevation
58	1	HP-15694	Pin Clevis 3/8 Dia. x 2 25/64"	109	1	BD-14072	Drive Belt
59	1	HS-00273	Bolt Hex Head 5/16-18 x 1"	110	2	HS-40099	Screw, 8-32 x 3/4" PHp, Gold Zinc
60	1	AF-15550	Weldment Tensioner Drive Belt	NS	1	AD-61173	Contact Heart Rate Board
61	1	AF-14161	Drive Belt Retainer	NS	1	WR-13964	Power Cord 115V
62	2	FM-14459	Spring Drive Belt Tensioner	NS	1	WR-13966	Power Cord 230V
63	1	MR-15476	Motor, Elevation AC Une Actuator	NS	1	WR-13965	Power Cord 230/50V
63	1	MR-15616	Motor, Elevation AC Une Actuator	NS	1	AX-15807	E-Stop Assembly (Lanyard)
64	1	HX-11593	Key Ansi Square 3/16 x 1 3/16	NS	1	AW-15624	Cable Ribbon 20 Cond x 33.5"
65	7	HS-11977	Screw, 8-32 UNC x .38 sems ext.	NS	1	AW-15625	Cable Ribbon 20 Cond x 46"
66	1	AF-15793	Bracket, Speed Sensor Mount	NS	1	AW-15626	Cable White 1 Cond x 26"
67	1	AW-14972	Cable Speed Sensor	NS	1	AW-15627	Cable Black 1 Cond x 26"
68	1	HW-10772	Washer	NS	1	AW-15630	Cable Ground 1 Condo x 21"
69	1	HS-15781	Screw, 4-40 x .44 PNHD Phil Pltd	NS	1	AW-15791	Cable Black 1 Cond x 6"
70	1	HW-10867	Washer Fender, 1/4 x 1.0 x .51	NS	1	AW-15792	Cable White 1 Cond x 6"
71	1	HW-00180	Washer, Split	NS	1	AW-15795	Cable 2 Cond w/Ferrite 11"
72	1	HS-15757	Bolt Hex Hd 5-16-18 x 1"	NS	1	DE-12437	Decal, Ground
73	2	HS-14744	Screw 3/8-16 x 3.75 Hex Cap Gr 5	NS	1	DE-15718	Decal, Stableflex Logo
74	4	HW-11580	Washer, 3/8, Flat	NS	1	DE-15880	Decal, Disconnect Caution
75	2	CW-15484	Wheel 4" OO x 1 1/4" Wide	NS	1	AX-61800	Assy., Polar PCB, Cable, Shield
76	3	HN-10003	Nut 3/8-16 Nylon				
77	2	HN-11925	Nut, Keps .25-20				
78	2	HX-15665	Cap rib-10k Squ 1 1/2-12-14				
79	1	PL-15606	Accessory Holder				
80	1	PL-15568	Cup Holder				
81	2	HP-15681	Pin Clevis 3/8 Dia. x 2 1/64"				
82	1	EC-15783	20 Amp Line Filter				
83	1	AD-15800	PCB Controller Lower 115V				
83	1	AD-15801	PCB Controller Lower 220V				
84	1	PL-15820	Shield				
85	2	HX-15775	Clip				
86	1	PL-05150	Console, Top				
87	1	PL-05144	Console, Back				
88	1	AD-10054	PCB, 600T Display				
89	19	HS-41187	Screw, 8-16 x 5/16" Plastite				
90	13	HS-41090	Screw, 8-32 x 5/8" Phil Pan Steel				
91	2	HW-13762	Washer, No.8 Ext. ZNPL				
92	1	MR-15541	130 VDC Motor Drive 2.5 HP				
92	1	MR-15614	240 VDC Motor Drive 2.5 HP				
93	2	HX-50103	Grips, Non-CT, Front				
93	2	HX-50136	Grips, CT, Front				
94	2	HX-50104	Grips, Non-CT, Back				
94	2	HX-50139	Grips, CT, Back				
95	1	DE-52154	Overlay, Upper Display 600T				
96	1	DE-52155	Overlay, Lower Display 600T				
97	1	HS-14424	Screw				

NS =Not Shown

# 7 - Customer Service

## Contacting Service

In most areas call 888-GO-CYBEX or 888-462-9239. Otherwise call 508-533-4300 or fax 508-533-5183. Hours of phone service are Monday through Thursday from 8:30 a.m. to 6:00 p.m. and Friday from 8:30 a.m. to 5:00 p.m. Eastern Standard Time.

Information can be found on the web at [www.eCybex.com](http://www.eCybex.com) or by email at [techhelp@cybexintl.com](mailto:techhelp@cybexintl.com).

## Serial Number & Voltage

Your serial number can be found on the rear crossbar under the running deck. The voltage of your treadmill can be found on a label near the on/off (I/O) switch. For your convenience record your serial number and voltage below so that you will have it ready if you call Cybex Customer Service.

Serial Number \_\_\_\_\_ Voltage \_\_\_\_\_

## Return Material Authorization (RMA)

The Return Material Authorization system outlines the procedures to follow when returning material for replacement, repair, or credit. The system assures that returned materials are properly handled and analyzed. Follow the following procedures carefully.

Contact your authorized Cybex dealer on all warranty-related matters. Your local Cybex dealer will request an RMA from Cybex, if applicable. Under no circumstances will defective parts or equipment be accepted by Cybex without proper Return Material Authorization and prepayment of all postage or freight charges.

1. Call the Customer Service Hotline listed above for the return of any item that is defective.
2. Provide the technician with a detailed description of the problem you are having or the defect in the item you wish to return.
3. Provide the model and serial number of your treadmill. The serial number is located on the rear crossbar under the running deck. The serial number begins with a letter, for example: R09-101331100.

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4. At Cybex's discretion, the technician may request that you return the problem part(s) to Cybex for evaluation and repair or replacement. The technician will assign you an RMA number. This number must be clearly displayed on the outside of the package that contains the item(s) to be returned. Include a description of the problem, the serial number of the treadmill and the name and address of the owner in the package along with the part(s).
  
5. Forward the package to Cybex, prepaid for shipping charges.  
Cybex International, Inc.,  
Attn: Customer Service Department  
10 Trotter Drive  
Medway, MA 02053

*NOTE: Merchandise returned without an RMA number on the outside of the package or shipments sent C.O.D. will not be accepted by the Cybex receiving department.*

## Damaged Parts

Materials damaged in shipment should not be returned for credit. Shipping damages are the responsibility of the carrier (UPS, Federal Express, trucking companies, etc.)

**Apparent Damage** - Upon receipt of your shipment, check all boxes carefully. Any damage seen with a visual check must be noted on the freight bill and signed by the carrier's agent. Failure to do so will result in the carrier's refusal to honor your damage claim. The carrier will provide you with the required forms for filing such claims.

**Concealed Damage** - Damage not seen with a visual check upon receipt of a shipment but noticed later must be reported to the carrier as soon as possible. Upon discovery of the damage, a written or phone request to the carrier asking them to perform an inspection of the materials must be made within ten days of the date of delivery. Keep all shipping containers and packing materials: they will be needed as part of the inspection process. The carrier will provide you with an inspection report and the necessary forms for filing a concealed damage claim. Concealed damage is the carrier's responsibility.

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