

LifeFitness

Model 9000 Treadmill



Customer Support Services
SERVICE MANUAL

INTRODUCTION

HOW TO USE THIS SERVICE MANUAL

In the unlikely event that an operating problem may occur with your Life Fitness 9000 Treadmill, this Service Manual will instruct and guide you or your Maintenance Engineer on the quickest, most efficient manner in which to approach the situation. This Service Manual has been separated into a total of Five Sections for quick reference:

- ☐ Introduction
- ☐ Table of Contents

SECTION I

- ☐ Troubleshooting Guides

SECTION II

- ☐ Diagnostics

SECTION III

- ☐ Model 9000 "How To..."

SECTION IV

- ☐ Parts Identification
- ☐ Wiring Block Diagrams

SECTION V

- ☐ Model Identification and Serial Number
- ☐ Preventive Maintenance Schedule
- ☐ Estimated Repair Times
- ☐ Communicating by Fax

If an operating problem should arise, turn to the TROUBLESHOOTING GUIDES and attempt to isolate what is causing the malfunction. The GUIDES are listed by symptoms and follow with suggestions as to the most probable cause of the problem.

Once you have pin-pointed the source of the problem, turn to the appropriate "How To..." section according to which model treadmill you have and review the proper procedures for removing or replacing a part. The "How To..." sections are organized by replaceable part (or assembly) name. If you do not have the part you need in stock, refer to Section IV to identify the proper part name and number.

To order a part call Life Fitness Customer Support Services any Monday through Friday from 8:00 AM to 6:00 PM (C.S.T.). When you place a call, in order to speed our response to your particular situation, please have the following information available for the customer service phone technician who will be prepared to assist you:

1. The Treadmill model type (9000)
2. The serial number
3. The symptom of the problem you are experiencing
4. The part name and number you need to order

When you receive your order, review the appropriate "How To..." section and follow the step by step procedures designed to help you install the part quickly and correctly. There is an Estimated Repair Time schedule in Section V which will help you to forecast how long your machine will be down.

If you have any questions or comments please phone, mail, or fax us at one of the numbers listed below.



CUSTOMER SUPPORT SERVICES

10601 Belmont Avenue, Franklin Park, IL 60131
(800) 351-3737 Toll Free or (847) 451-0036
(847) 288-3702 FAX

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Symptom: "Slowdown". Belt slips during footfall or display reads "Press Start to Resume", or "Note Max. Speed Is Reduced To".

Malfunction	Probable Cause	Corrective Action
Maximum speed is reduced	User is exceeding desired speed for the striding belt.	☐ Inform user on proper usage of treadmill (See Operation Manual)
	Unit has 3000 hours or 15000 miles (24,150km) or more.	☐ Inspect belt and deck for excessive wear. Replace any defective part.
	Belt Deck Malfunction: • Deck laminate is worn through. • Underside of striding belt is glazed over (hard, glossy). • There is a large build-up of wax, excessive wax fills fingernails when scratching underside of belt. Wax system malfunction.	☐ Replace both deck and belt (Use unused side of deck if available). ☐ Update service menu.(See Diagnostics Menu)
Belt slips during footfall	Insufficient power source.	☐ Check for a spray pattern between 8" (203.2mm) and 16" (406.4mm) ☐ Check for a clean nozzle ☐ Check for any kinked hose lines ☐ Is the wax bag empty? ☐ Has there been a leak in the wax system? ☐ Is there any contamination in the wax? ☐ Has anyone used the manual waxing mode to wax the belt?
	Incorrect tension of the striding belt.	☐ Plug treadmill into a dedicated 120V, 20 amp circuit. (See Operations Manual) ☐ Perform a stall test. Retension as necessary.
	Incorrect tension on the rear roller belt or drive belt.	☐ Inspect belt and deck for excessive wear. Replace any defective part. ☐ Retension rear roller belt or drive belt (See "How To...").
		Call Life Fitness Customer Support Services 1-800-351-3737 or 1-847-451-0036

Life Fitness Model 9000 Treadmill
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Symptom: Display Will Not Program Password or Locked In Password Mode

Malfunction	Probable Cause	Corrective Action
Display will not accept password entries	Incorrect entries. Pressing 0 as an entry. Incorrect password entered.	☐ Only 3 digits are acceptable as a password (entries 1 thru 999) if Lifecenter is not installed. ☐ Pressing 0 before pressing other numeric keys will not be allowed as an entry. ☐ Press CLEAR twice. ☐ Press 9000, (MANUAL, 9000 if connected to Lifecenter), ENTER for access to password mode. ☐ Enter new password. A valid password is 3 digits: 1 thru 999. (4 digits if connected to Lifecenter) ☐ Press ENTER. ☐ Press CLEAR twice.
Locked in password mode	Incorrect entries.	☐ Press 9000, (MANUAL, 9000 if connected to Lifecenter), ENTER for access to password mode. ☐ Press 0 then CLEAR to reset password mode. ☐ Press ENTER. ☐ Press CLEAR twice.
Display by-passes password	Connected to Lifecenter.	☐ Press MANUAL, 9000, ENTER for access to password mode. Call Life Fitness Customer Support Services 1-800-351-3737 or 1-847-451-0036

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TROUBLESHOOTING GUIDE

Symptom: Noisy Treadmill

SECTION I

Malfunction	Probable Cause	Corrective Action
Knocking sound at rear of machine	Wax Build-up on rear roller Faulty rear roller bearings. Faulty drive motor bearings.	☐ Unit requires 10 hours of break-in. ☐ Replace rear roller assembly. ☐ Replace drive motor assembly.
Knocking sound coming from deck	Worn Lifesprings. Loose or damaged deck screws.	☐ Replace as necessary Lifesprings. ☐ Tighten or replace any loose deck screws
Rubbing sound from underneath machine	Foreign objects may be stuck underneath the machine. Damaged rear panel.	☐ Inspect underneath belt and machine and remove any debris or accumulation on debris brush. ☐ Replace rear panel.
Squeaking noise at footfall	Loose deck. Lifesprings may be misaligned. Drive motor belt may be worn or damaged.	☐ Tighten deck screws. ☐ Reposition or replace damaged Lifesprings ☐ Replace drive motor belt.
Loud "groaning" sound heard from front of machine while elevating	Faulty lift motor.	☐ Lubricate lift actuator with a dry lubricant ☐ Perform lift test (see Diagnostics for set-up) Run lift actuator up and down several times. ☐ Replace lift actuator if noise continues.
Loud "groaning" on footfall	High deck and belt friction. Striding belt may be under tensioned or misaligned.	☐ Refer to slowdown section. ☐ Inspect the striding belt for proper tension. Retension or realign as necessary.
		Call Life Fitness Customer Support Services 1-800-351-3737 or 1-847-451-0036

Life Fitness Model 9000 Treadmill

TROUBLESHOOTING GUIDE

Symptom: Display Does Not Illuminate or Respond To Input

Malfunction	Probable Cause	Corrective Action
Display does not illuminate when machine is powered on.	Insufficient power source.	☐ Plug treadmill into a dedicated 120V, 20 amp circuit ☐ Turn power off for 30 seconds. Turn power ON and within 30 seconds press " 9-0-9, Enter " on the keypad.
	Loose connection at display console or control board.	☐ Check all electrical connections.
	Pinched wire harness at the base of the left handrail.	☐ Secure connections at display console and control board.
	Faulty display console.	☐ Reinstall display console and handrail , inspect for pinched harnesses. Replace harness if damaged. ☐ Switch display console with another Life Fitness model 9000 treadmill if available. ☐ Replace display console.
	Faulty CPU control board.	☐ Switch CPU control board with another Life Fitness model 9000 treadmill if available. After troubleshooting, replace CPU board to original unit. ☐ Replace CPU control board.

**Call Life Fitness
Customer Support Services
1-800-351-3737 or 1-847-451-0036**

Life Fitness Model 9000 Treadmill
TROUBLESHOOTING GUIDE

Symptom: Unit Resets Randomly

Malfunction	Probable Cause	Corrective Action
Unit resets randomly	Insufficient power source.	☐ Plug treadmill into a dedicated 120V, 20 amp circuit.
	Line cord improperly seated in electrical outlet.	☐ Inspect power connection at outlet and at machine for proper contact.
	Damaged line cord.	☐ Inspect ground pin, replace line cord.
	Damaged ground tinsel	☐ Replace missaligned or damaged tinsel.
	Towel or magazine may be making contact with stop switch while user is running.	☐ Move possible obstructions off display console and handlebar.
	Pinched wire harness at the base of the left handrail.	☐ Reinstall Display Console and handrail, inspect for pinched harnesses. Replace harness if damaged.
	Stop switch cover is missing.	☐ Replace stop switch.
	Stop switch is activated with very light pressure or returns very slowly after being pressed.	☐ Replace stop switch.
	Loose connection at stop switch or display faceplate.	☐ Secure connections.
	Loose connection at console assembly.	☐ Secure connections.
	Case ground on treadmill is open.	☐ Check contact points for proper ground connections (Contact Customer Support Services for procedure instructions).
	Stop switch relay connection is faulty.	☐ Replace stop switch.
	Loose connections at CPU control board and display.	☐ Secure connections at CPU control board and display.
	Faulty circuit breaker.	☐ Test using ohm meter. Test breakers tapping several times. Verify whether or not the breaker is good.
		Call Life Fitness Customer Support Services 1-800-351-3737 or 1-847-451-0036

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TROUBLESHOOTING GUIDE

Symptom: No Power

Malfunction	Probable Cause	Corrective Action
No Power	On/Off switch.	☐ Check that the unit is turned on?
	Insufficient power source.	☐ Plug treadmill into a dedicated 120V, 20 amp circuit.
	Line cord improperly seated in electrical outlet.	☐ Using a meter, verify power at outlet.
	Damaged line cord.	☐ Inspect power connection at wall outlet and at machine for proper contact.
	Faulty display console.	☐ Replace line cord.
Motor Controller cable	Faulty CPU.	☐ Turn power off for 30 seconds. Turn power on and within 30 seconds of turning the unit on, press "9 - 0 - 9" Enter on the keypad. This will test just the display console by itself.
	Faulty cable.	☐ Perform test above. If display console does not turn on, switch CPU board with another 9000 treadmill.
	Pinched wire harness at the base of the left handrail.	☐ Check connections to CPU to ensure cable is secure.
		☐ Reinstall Display Console and handrail , inspect for pinched harnesses. Replace harness if damaged.
		☐ Check connector P4 on CPU board for 120vac.(Red Hot--Green/Yellow--Ground)
.5 AMP fuse	Power module:	☐ Test circuit breaker by tapping on white button in center of breaker. Replace if defective.
		☐ Cycle power on and off to verify ON/Off switch.
		☐ Ohm out .5 amp fuse located on CPU..
		☐ Check all electrical connections.
		Call Life Fitness Customer Support Services 1-800-351-3737 or 1-847-451-0036

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Symptom: Wax Will Not Wax Properly

SECTION I

Malfunction	Probable Cause	Corrective Action
Wax will not wax	Fill valve in kit has crimped fill hose. Fill valve in treadmill is not fully open. Fill hose in treadmill is crimped. Unit already is filled with wax	☐ Check the fill valve for proper operation. ☐ Check the fill hose for kinks, straighten as necessary. ☐ Check for blockage. ☐ Check fill valve in treadmill for proper operation. ☐ Check the fill hose for kinks, straighten as necessary. ☐ Lightly squeeze wax container. ☐ Check Lines and bag to verify unit needs wax.
Replacement Wax	Reset wax counts.	☐ See How To... Install Automatic Waxing System. Call Life Fitness Customer Support Services 1-800-351-3737 or 1-847-451-0036

TROUBLESHOOTING GUIDE

Symptom: Wax Is Leaking From Treadmill

Malfunction	Probable Cause	Corrective Action
Wax Leak	Partially open or faulty fill valve.	☐ Fully close fill valve. Replace if faulty.
	Loose hose connections.	☐ Inspect hose connections and secure as necessary. ☐ Replace hose connectors if necessary.
	Faulty connection at fitting and bag.	☐ Replace wax bag and all tubing.
	Wax bag is torn.	☐ Replace wax bag.
	Pump does not shut off, wax passes through pump and drips slowly from nozzle.	☐ Swap wax pump with another 9000 treadmill if available. ☐ Replace wax pump.
	Faulty CPU Board	☐ Swap CPU with another 9000 treadmill if available. ☐ Replace CPU Board
Call Life Fitness Customer Support Services 1-800-351-3737 or 1-847-451-0036		

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Symptom: BELT COMES IN CONTACT WITH FRAME AND END CAPS

Malfunction	Probable Cause	Corrective Action
The belt is traveling beyond the tracking limits.	Worn striding belt or user pushes belt	☐ Center belt according to belt centering technique described in technical manual. See How to Replace Striding Belt.
	Striding belt needs to be re-tensioned.	☐ Refer to belt tensioning procedure in operation or service manual.
	Worn striding belt.	☐ Refer to "Slowdowns".
		Call Life Fitness Customer Support Services 1-847-451-0036 or 1-800-351-3737

SECTION I

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TROUBLESHOOTING GUIDE

Symptom: NO TELEMETRY READING

Malfunction	Probable Cause	Corrective Action
No Chest Strap detected.	Chest strap sensors not making good contact with body of user.	☐ Adjust chest strap
		☐ Moisten sensors to make better contact with skin
	Loose connection at receiver.	☐ Check connection on receiver (See “How To...”)
	User is out of monitoring range.	☐ Move within three feet (1 meter) of receiver
	Mis-aligned receiver.	☐ Verify red dot is on the top side of receiver when placed in position.
	Faulty receiver.	☐ Replace receiver
	Faulty chest strap.	☐ Replace chest strap
Erratic Heart Rate readings (Cross Talk)		☐ Position treadmills to recommended distances (See Operation Manual)
	Treadmills are located less than 8” (203 mm) apart.	☐ Receivers need to be 1 meter apart.
Call Life Fitness Customer Support Services 1-847-451-0036 or 1-800-351-3737		

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TROUBLESHOOTING GUIDE

Symptom: "Notify Maintenance" - "Speed Control Error"

Malfunction	Probable Cause	Corrective Action
Speed control error	Insufficient power source.	☐ Plug Treadmill into a dedicated 120Volt, 20 Amp circuit.
	Loose connections at motor controller.	☐ Inspect motor controller to CPU cable connections. ☐ Enter into speed automatic DIAGNOSTICS (See Section II). If "Total Cal" and "Cal/HR" LED's are not lit, inspect wire connections at control board and motor controller. Check connections. ☐ If "Total Cal" LED is lit and "Cal/HR" LED is out, then with your feet off the belt, press the speed increase key. The "Total Cal" LED should go out initially while the "Cal/HR" LED comes on. Once the belt reaches speed, both LEDs should be on. If this is the case, both the control board and the motor controller are functioning. ☐ Walk on unit for 5 minutes, (Note the condition of the LED's mentioned above. If the "Total Cal" LED flashes on and off, the striding belt needs to be changed due to wear on the belt or deck.
	Faulty Emerson motor controller.	☐ Switch the Emerson motor controller with another Life Fitness model 9000 treadmill if available. ☐ Replace motor controller.
	Faulty CPU control board.	☐ Switch the CPU control board with another Life Fitness model 9000 treadmill if available. ☐ Replace control board.
	Loose connection at drive motor.	☐ Inspect main drive motor harness connections.
	Loose drive motor belt.	☐ Inspect main drive motor belt tension (See "How To...").
	Broken weld on drive motor housing.	☐ Inspect drive motor housing and tensioning bolt condition. Replace if necessary.

Symptom: Striding Belt Not Centered On Deck

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TROUBLESHOOTING GUIDE

Symptom: Display reads "Notify Maintenance Lift Control Error"

Malfunction	Probable Cause	Corrective Action
Lift Error	Incline control error.	☐ Enter into Incline Manual mode in the DIAGNOSTICS menu (See Section II). ☐ Incline unit with two people on top of unit. ☐ (do not exceed the 300 lb. limit)
	Insufficient power source.	☐ Plug treadmill into a dedicated 120v, 20amp circuit. (See Operations Manual)
	Weight limitation.	☐ Advise user of weight limit of 300lbs. (660kg).
	Will not lift.	☐ Perform lift test procedure from above.
	Unit only lifts up. Unit thinks it is always at "0" percent	☐ Check home switch for smooth operation and check home switch cables and connectors. ☐ Check lift actuator cable connections and presence of (1 only) suppressor board. (For non-Heart-Rate units)
	3 amp circuit breaker popped.	☐ Replace if necessary. Locate 3 amp fuse on CPU. Using an Ohm meter, verify the fuse is good.
	Failed, damaged or cracked.	☐ Replace lift actuator.
		Call Life Fitness Customer Support Services 1-847-451-0036 or 1-800-351-3737

SECTION I

Life Fitness Model 9000 Treadmill
TROUBLESHOOTING GUIDE

Symptom: Workout Pause: "Notify Maintenance"

Malfunction	Probable Cause	Corrective Action
Striding belt will not start	Insufficient power.	☐ Plug into electrical outlet with proper voltage and amperage requirements.
	Loose connections at drive motor.	☐ Inspect all connections. ☐ Use a voltmeter to measure the Ohms between the two blue wires of the drive motor wire harness. If the connection is open, replace the drive motor assembly.
	Damage to drive motor assembly.	☐ Inspect drive motor for damage to pulley or drive motor belt.
	Loose connections at motor controller.	☐ Inspect all connections.
	Faulty motor controller.	☐ Switch motor controllers with another working 9000 Treadmill. Replace if defective.
		Call Life Fitness Customer Support Services 1-847-451-0036 or 1-800-351-3737

Life Fitness Model 9000 Treadmill

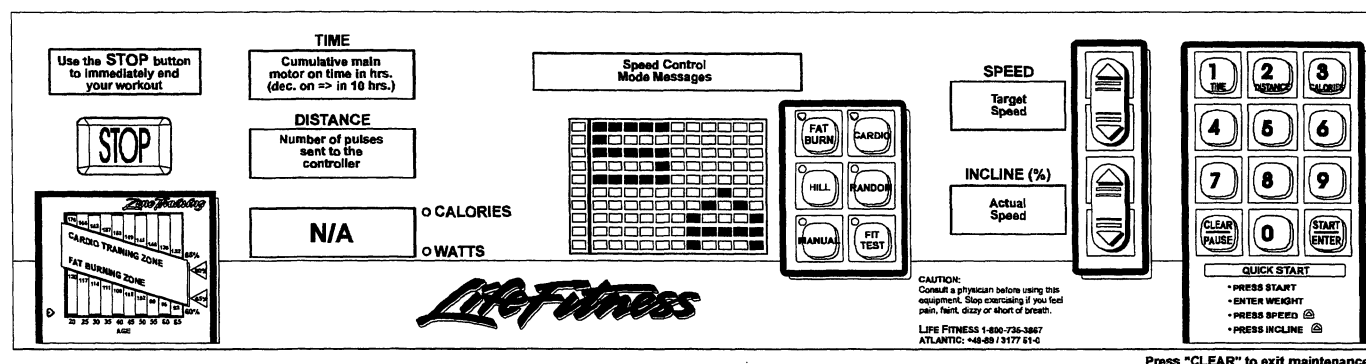
NOTES:

Life Fitness Model 9000 Treadmill

DIAGNOSTIC TESTS

How To...EXECUTE THE SERVICE MODE

WARNING: DO NOT STAND ON THE STRIDING BELT WHILE ENTERING THE SERVICE MODE OR WHILE PERFORMING ANY OF THE DIAGNOSTIC TESTS.



SECTION II

NOTE: TO ACCESS A SPECIFIED DIAGNOSTIC PROGRAM, USE THE PROGRAM KEYS. A PROGRAM KEY IS CONSIDERED "ON" WHEN ITS LED IS LIT, "OFF" WHEN IT IS NOT LIT. THE DISPLAY PROGRAM LED's SHOWN ON THESE EXAMPLES ARE "OFF".

TO ENTER THE DIAGNOSTIC / ACCOUNTING TEST:

1. Press the **START** key once.
2. Press the **CLEAR** key twice.
3. Press the number keys **9 - 1 - 9**.
4. Press the **ENTER** key.

IF THE TREADMILL IS CONNECTED TO A LIFECENTER SYSTEM:

1. Press the **START** key once.
2. Press the **CLEAR** key twice.
3. Press the **MANUAL** program key.
4. Press the number keys **9 - 1 - 9**.
5. Press the **ENTER** key.

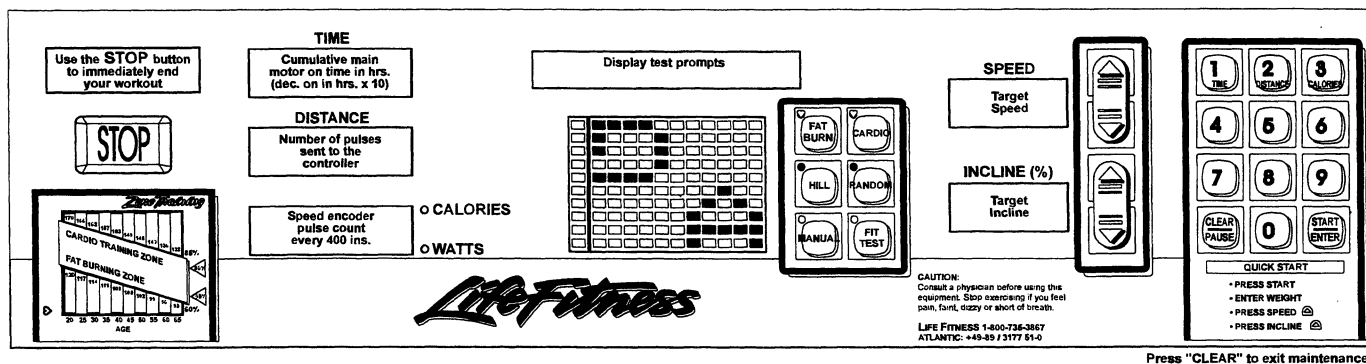
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DIAGNOSTIC TESTS

How To...EXECUTE THE DISPLAY TEST

This test indicates if the Display is working properly.

TO ENTER INTO THE DISPLAY TEST TURN "ON" THE HILL AND RANDOM KEYS



The information that will be displayed in this mode is as follows:

- ☐ Lit LED's displayed in all windows.
- ☐ Walking LED's displayed in all windows.
- ☐ Hours that main motor has been working displayed in **TIME** window.
- ☐ Speed encoder count displayed in **CALORIES** window
- ☐ Speed pulse count displayed in **MILES (KILOMETERS)** window.
- ☐ Target speed indicated in **SPEED** window.
- ☐ Target incline indicated in **INCLINE** window.

Tests in the Display Diagnostics are as follows:

1. Press the **ENTER** key *once* to test Displays **LED's**.
Press the **ENTER** key *twice* to test Display Walking **LED's**.
Press the **ENTER** key *a third* time to display the Display Software version.
2. After pressing the **ENTER** key once, press Number Keys to view specific digits.
3. Press **INCLINE** and **SPEED** keys to view specific number segments.
4. Press **CLEAR** to exit the Diagnostic Program or press Program Keys to enter another Diagnostic/Accounting function.

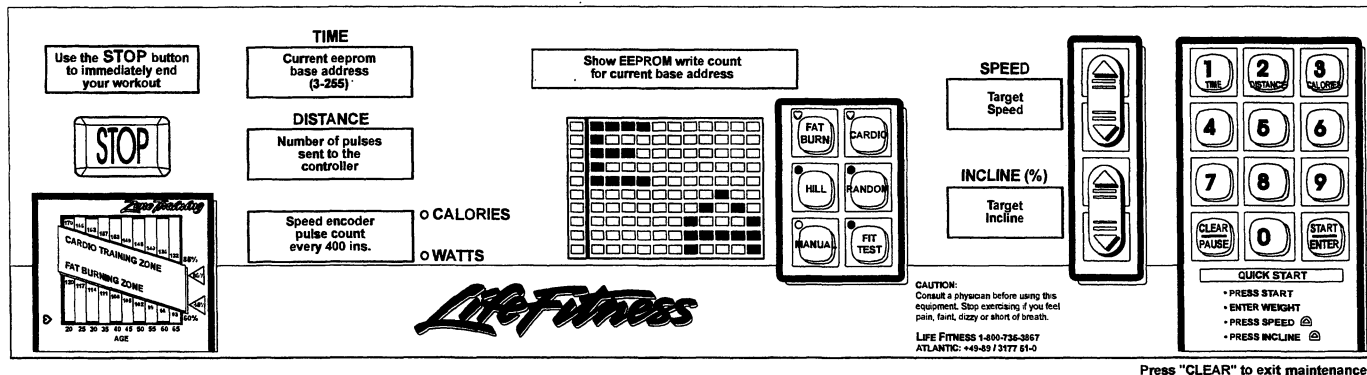
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DIAGNOSTIC TESTS

How To...EXECUTE THE EEPROM MODE

This test indicates the amount of memory and allows for changes in the program times.

TO ENTER INTO THE TEST TURN "ON" THE HILL, RANDOM AND FIT TEST PROGRAM KEYS.



SECTION II

The information that will be displayed in this mode is as follows:

- ☐ Statistics and software code version will be displayed in the **INSTRUCTIONS** window.
- ☐ Speed encoder count displayed in **CALORIES** window.
- ☐ Speed pulse count displayed in **MILES (KILOMETERS)** window.
- ☐ Software options are displayed in **INSTRUCTIONS** window.
- ☐ Optional settings displayed in the **INSTRUCTIONS** window.

You may change Program times by pressing the **ENTER** key when the Program time is indicated on the **INSTRUCTIONS** window. Default time is set at 60 Minutes and can be reset from 1 to 99 Minutes.

You may change the maximum programmable belt speed by pressing the speed **INCREASE** and **DECREASE** keys when the **MAXIMUM SPEED** message is displayed in the **INSTRUCTIONS** window. The choices for maximum belt speeds are 10.0 mph (11.6 kpm) to 2.0 mph (3.22 kph) in 0.5 mph (0.805 kph) increments.

You may change the minimum speed between 1.0 mph (1.61 kph) and 1.5 mph (2.415 kph) using the speed **INCREASE** and **DECREASE** keys.

Press the **CLEAR** key to exit the Diagnostic Program or press Program keys to enter another Diagnostic/Accounting function.

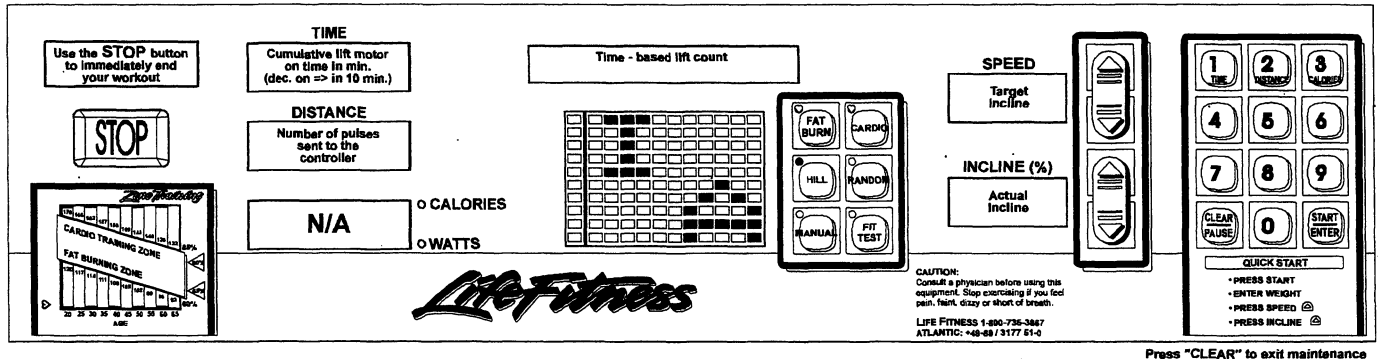
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DIAGNOSTIC TESTS

How To...EXECUTE THE INCLINE CONTROL TEST

This test indicates if the unit is reaching or lowering to the user's chosen level.

TO ENTER INTO THE INCLINE CONTROL TEST TURN "ON" THE HILL PROGRAM KEY.



The information that will be displayed in this mode is as follows:

- ☐ How long lift action has been on in minutes. Displayed in **TIME** window.
- ☐ Lift position counts displayed in **INSTRUCTIONS** window.
- ☐ Speed encoder count displayed in **CALORIES** window.
- ☐ Target incline indicated in **SPEED** window.
- ☐ Actual incline indicated in **INCLINE** window.

NOTE: INCLINE NUMBERS SHOULD BE EQUAL.

Tests in the Incline Control Diagnostics are as follows:

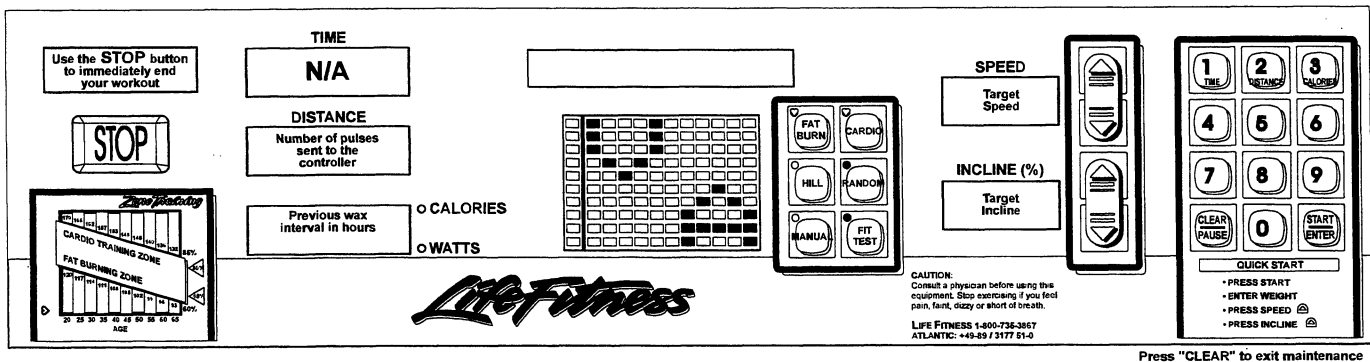
1. Stand across the front of the machine or as far forward as possible on the belt. Press **INCLINE** keys to target incline. Incline and decline machine several times.
2. Press the **SPEED** or **NUMBER** keys to enter a target speed.
3. Press the **ENTER** or "0" key to stop the striding belt.
4. Press **CLEAR** to exit the Diagnostic Program or press Program Keys to enter another Diagnostic/Accounting function.

DIAGNOSTIC TESTS

How To...EXECUTE VIEWING OF USAGE STATISTICS

This mode supplies statistics and code versions of the Treadmill.

**TO ENTER INTO THE VIEWING OF USAGE STATISTICS TESTS
TURN "ON" THE RANDOM AND FIT TEST PROGRAM KEYS**



SECTION II

The information that will be displayed in this mode is as follows:

- ☐ Statistics and software code version displayed in the **INSTRUCTIONS** window.
- ☐ Speed encoder count displayed in **CALORIES** window.
- ☐ Speed pulse count displayed in **MILES (KILOMETERS)** window.
- ☐ Target speed indicated in **SPEED** window.
- ☐ Target incline indicated in **INCLINE** window.

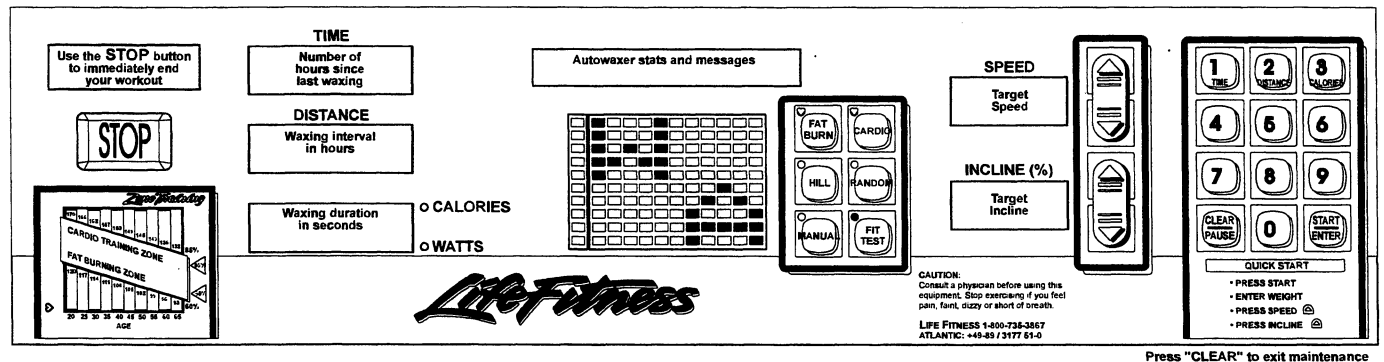
Life Fitness Model 9000 Treadmill

DIAGNOSTIC TESTS

How To...EXECUTE THE WAXER CONTROL TEST

This test indicates the status of the waxing system.

TO ENTER INTO THE TEST TURN "ON" THE FIT TEST PROGRAM KEY.



The information that will be displayed in this mode is as follows:

- ☐ Percent of wax left in reservoir displayed in the **INSTRUCTIONS** window.
- ☐ Number of times the wax pump has discharged displayed in **INSTRUCTIONS** window.
- ☐ Hours since last waxing displayed in the **TIME** window.
- ☐ Waxing duration displayed in the **CALORIES** window.
- ☐ Waxing interval displayed in the **MILES (KILOMETERS)** window.
- ☐ Target speed indicated in **SPEED** window.
- ☐ Target incline indicated in **INCLINE** window.

Tests in the Waxing Control Diagnostics are as follows:

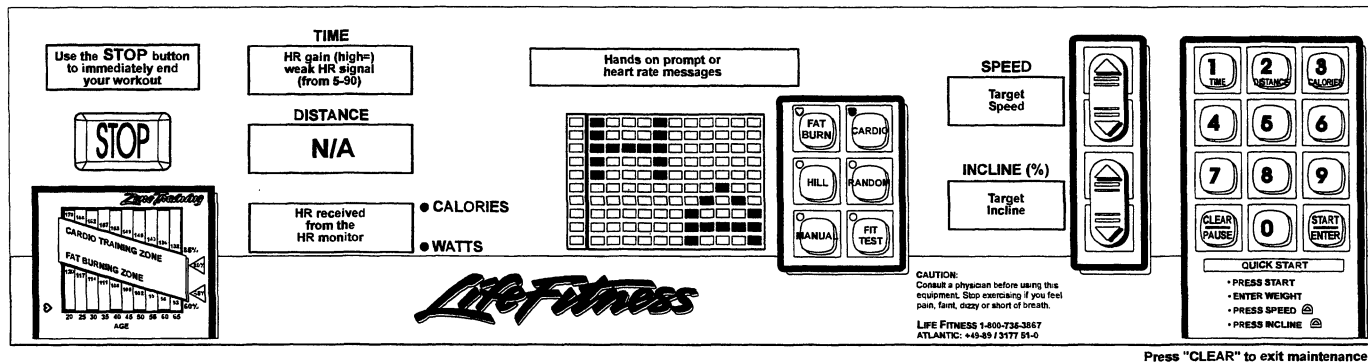
1. Press the **ENTER** key to start waxing operation.
2. Press the **SPEED** or **NUMBER** keys to enter a target speed.
3. Press the **INCLINE/DECLINE** keys to enter a target incline.
4. Press the "0" key to stop the striding belt.
5. Press **CLEAR** to exit the Diagnostic Program or press Program Keys to enter another Diagnostic/Accounting function.

DIAGNOSTIC TESTS

How To...EXECUTE THE HEART RATE MONITORING MODE

This test indicates if the heart rate program is operating properly.

TO ENTER INTO THE TEST TURN "ON" THE HEART RATE PROGRAM KEY.



SECTION II

The information that will be displayed in this mode is as follows:

- ☐ Amplification factor for heart signal displayed in **TIME** window.
- ☐ Heart rate from HR Monitor displayed in **CALORIES** window.
- ☐ Target speed indicated in **SPEED** window.
- ☐ Target incline indicated in **INCLINE** window.
- ☐ Heart rate indicated in **INSTRUCTION** window.

To test the Heart Rate Monitor:

1. Place Pulse simulator in front of Receiver.
2. Read the Heart Rate signal in **DISTANCE** window.

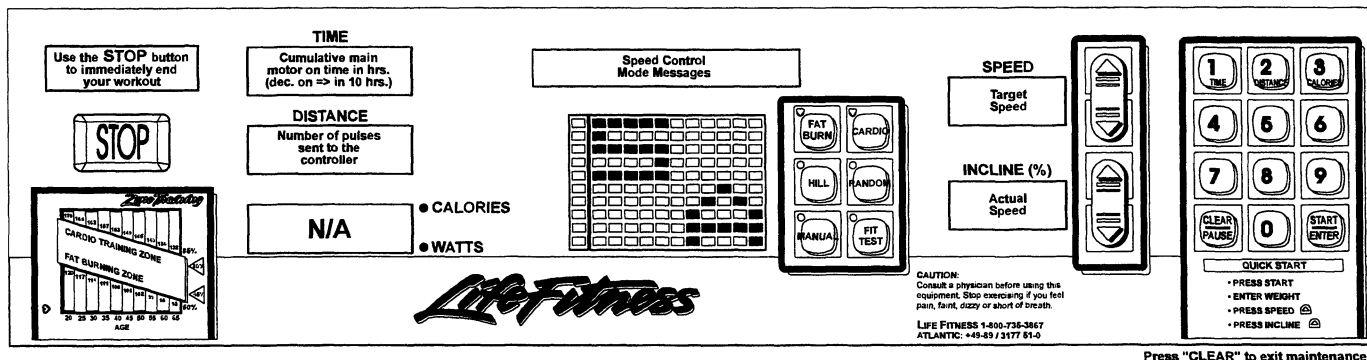
Life Fitness Model 9000 Treadmill

DIAGNOSTIC TESTS

How To...EXECUTE THE SPEED CONTROL OPERATION TEST

This test indicates if the unit is running at the actual speed that the user has chosen.

TO ENTER INTO THE TEST ALL PROGRAM KEYS SHOULD BE IN THE "OFF" POSITION.



The information that will be displayed in this mode is as follows:

- ☐ Total main motor on time in hours is displayed in the **TIME** window.
- ☐ Total number of electrical pulses sent to the motor controller is displayed in the **MILES (KILOMETERS)** window.
- ☐ Total main motor on time in hours and total main motor miles are displayed in the **INSTRUCTIONS** window.
- ☐ Target speed indicated in **SPEED** window.
- ☐ Actual speed indicated in **INCLINE** window.
- ☐ Energy pulses being sent to motor from motor controller are displayed on **CALORIE\HOUR LED**.
- ☐ Actual speed and target speed matched are displayed on **TOTAL CALORIE LED**.

Tests in the Speed Control Diagnostics are as follows:

1. Press the speed **INCREASE/DECREASE** keys to enter target speed.
2. Examine target and actual speed windows to verify equal speeds.
3. Press the **ENTER** or "0" key to stop the striding belt.
4. Press **CLEAR** to exit the Diagnostic Program or press Program Keys to enter another Diagnostic/Accounting function.

Life Fitness Model 9000 Treadmill

HOW TO... REMOVE AND REPLACE MOTOR COVER

Tools Required: Phillips screwdriver

Step 1

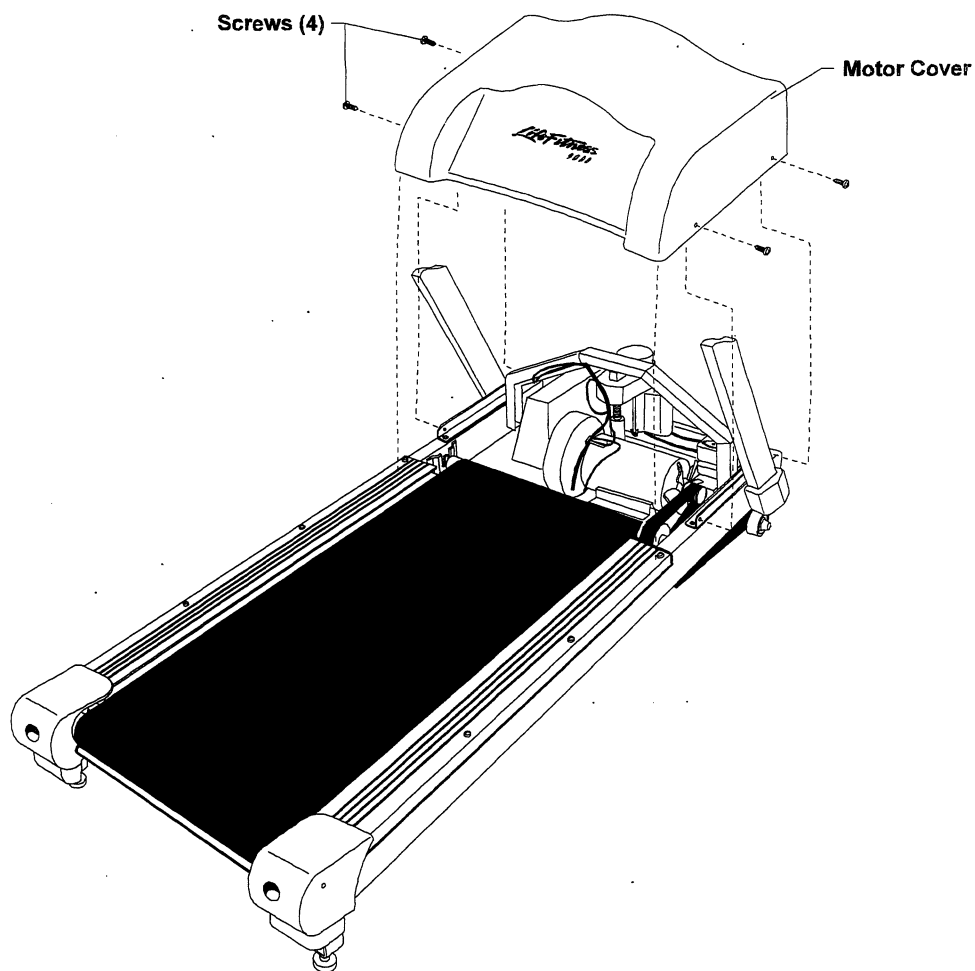
Turn the power OFF at the ON/OFF switch and then unplug the unit from the electrical outlet.

Step 2

Use a Phillips screwdriver to remove four SCREWS securing the MOTOR COVER.

Step 3

Place the MOTOR COVER in position and replace the four SCREWS.



Life Fitness Model 9000 Treadmill

HOW TO ... REMOVE AND REPLACE DRIVE MOTOR ASSEMBLY

Tools Required: Phillips screwdriver, hex key wrench set, socket set

WARNING: FAILURE TO OBSERVE SAFE PROCEDURES WHEN SERVICING THIS UNIT COULD RESULT IN INJURY FROM ELECTRICAL SHOCK

Step 1

Turn the power OFF at the ON/OFF switch and then unplug the unit from the electrical outlet.

Step 2

Remove MOTOR COVER, "See How To..."

Step 3

Ground yourself to the machine by positioning an ANTI-STATIC GROUNDING STRAP around your wrist and attaching the end (alligator Clip) to a MOUNTING SCREW, or a connecting GROUND WIRE SCREW.

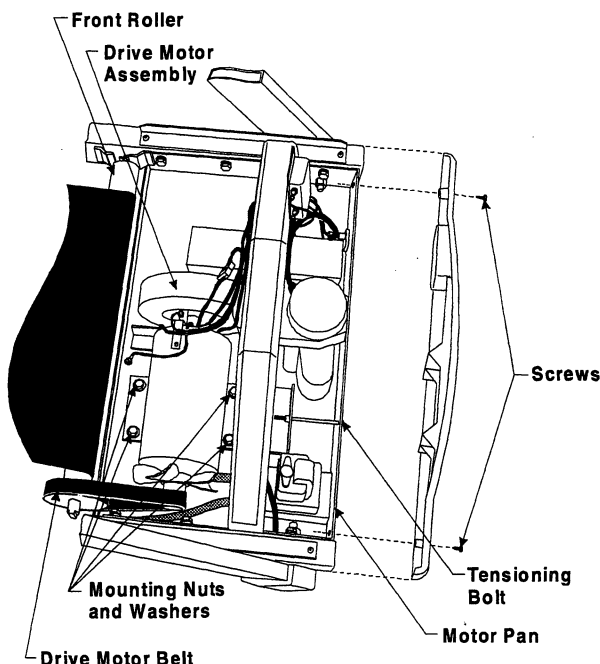
Step 4

Disconnect the 6 PIN CONNECTOR of the DRIVE MOTOR HARNESS and cut the wire tie securing it to the frame.

Step 5

Use a Phillips screwdriver to remove two SCREWS from FRONT PANEL.

HELPFUL HINT: MARK OR SCORE THE PLACEMENT OF THE DRIVE MOTOR MOUNTING BRACKET. THIS WILL AID IN RE-TENSIONING THE DRIVE MOTOR BELT.



Step 6

Use a socket wrench (1/2") to loosen the four NUTS securing the DRIVE MOTOR ASSEMBLY to the MOTOR PAN.

Step 7

Use socket wrench (7/16") to loosen the DRIVE MOTOR TENSIONING BOLT.

Step 8

Push the DRIVE MOTOR ASSEMBLY towards the FRONT ROLLER to relieve the tension on the DRIVE MOTOR BELT, and roll the DRIVE MOTOR BELT off the FRONT ROLLER.

Step 9

Remove the SCREWS (2) and NUTS (2) securing the MOTOR CLAMPS at the front and rear of the DRIVE MOTOR ASSEMBLY.

Step 10

Carefully lift and remove the malfunctioning DRIVE MOTOR ASSEMBLY from the machine.

Step 11

Loosen the SET SCREWS (2) securing the DRIVE MOTOR PULLEY to the MOTOR SHAFT and transfer the DRIVE MOTOR PULLEY from the worn DRIVE MOTOR ASSEMBLY to the new. (Do not tighten the Set Screws (2) at this time)

Step 12

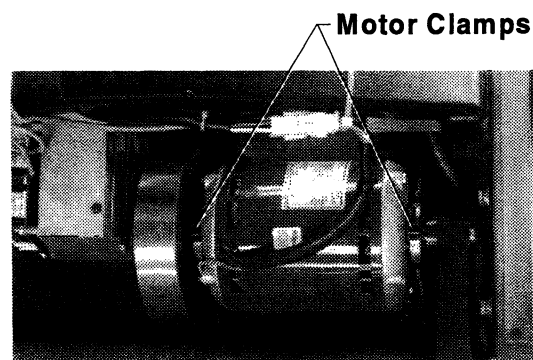
Partially reassemble the DRIVE MOTOR ASSEMBLY by reversing Steps 1 through Steps 8.

Step 13

Use a straightedge to align the DRIVE MOTOR PULLEY with the FRONT ROLLER PULLEY. Once the alignment is exact, tighten the SET SCREWS(2) on the DRIVE MOTOR PULLEY to secure it to the MOTOR SHAFT of the new DRIVE MOTOR ASSEMBLY.

Step 14

Reverse Steps 1 through 8 to return all parts to there proper locations.



Life Fitness Model 9000 Treadmill

HOW TO ... REMOVE AND REPLACE CONTROL (CPU) BOARD ASSEMBLY

Tools Required: Phillips screwdriver, socket set

WARNING: FAILURE TO OBSERVE SAFE PROCEDURES WHEN SERVICING THIS UNIT COULD RESULT IN INJURY FROM ELECTRICAL SHOCK

Step 1

Record the current WAXING information on the existing CONTROL BOARD (CPU) TRAY ASSEMBLY. Transfer WAX COUNTS to the new CONTROL BOARD (CPU) TRAY ASSEMBLY in Step 10. Proceed as follows:

- A. Enter into the SERVICE REPAIR MENU by pressing 919, Enter.
- B. Press the FIT TEST PROGRAM key. The DISPLAY CONSOLE will show the "NUMBERED OF TIMES WAXED." Record this information for transfer to the new CONTROL BOARD (CPU) TRAY ASSEMBLY.

Step 2

Turn the power OFF at the ON/OFF switch and then unplug the unit from the electrical outlet.

Step 3

Remove MOTOR COVER, "See How To ..."

Step 4

Ground yourself to the machine by positioning an ANTI-STATIC GROUNDING STRAP around your wrist and attaching the end (alligator Clip) to a MOUNTING SCREW, or a connecting GROUND WIRE SCREW.

NOTE: THE LOCATIONS OF THE CONNECTORS PRIOR TO UNPLUGGING THEM FROM THE CONTROL (CPU) BOARD.

Step 5

Disconnect the six CONNECTORS from the CONTROL BOARD (CPU) TRAY ASSEMBLY.

Step 6

Remove the SCREWS (3) from the SIDE PLATE located towards the front of the treadmill. Lift SIDE PLATE out and set aside.

Step 7

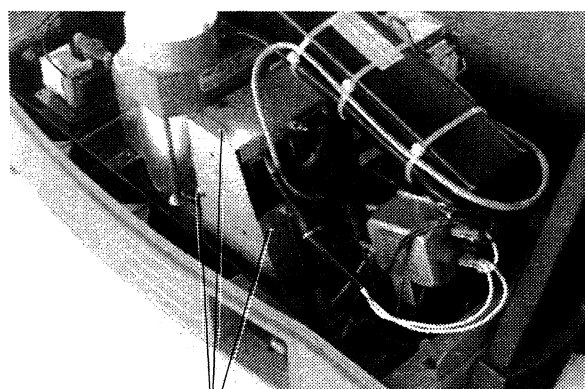
Loosen the hex head SCREWS (3) that mount the CONTROL BOARD (CPU) TRAY ASSEMBLY to the MOTOR CONTROLLER.

Step 8

Carefully lift the CONTROL BOARD (CPU) TRAY ASSEMBLY out of the treadmill.

Step 9

Reverse Steps 1 through 8 to return all parts to their proper locations.



Sideplate Screws

NOTE: AFTER INSTALLING A NEW CONTROL BOARD (CPU) TRAY ASSEMBLY, IT WILL BE NECESSARY TO RESET THE WAX COUNTS.

Step 10

Enter into the SERVICE REPAIR MENU by pressing 8228, ENTER. The DISPLAY CONSOLE will prompt you for what was serviced. Press #2, ENTER for CONTROL BOARD (CPU) TRAY ASSEMBLY. The Treadmill "NUMBER OF TIMES WAXED" will appear. Press the numbers corresponding to the information you recorded in Step 1. The "PERCENTAGE OF WAX REMAINING" will be calculated automatically. Press STOP or CLEAR KEY to exit the SERVICE REPAIR MENU. The Treadmill is now ready for operation.

Life Fitness Model 9000 Treadmill

HOW TO ... REMOVE AND REPLACE MOTOR CONTROL BOARD

Tools Required: Phillips screwdriver, socket set

**WARNING: FAILURE TO OBSERVE SAFE PROCEDURES WHEN SERVICING
THIS UNIT COULD RESULT IN INJURY FROM ELECTRICAL SHOCK**

Step 1

Turn the power Off at the ON/OFF switch and then unplug the unit from the electrical outlet.

Step 2

Remove MOTOR COVER, "See How To ..."

Step 3

Ground yourself to the machine by positioning an ANTI-STATIC GROUNDING STRAP around your wrist and attaching the end (alligator Clip) to a MOUNTING SCREW, or a connecting GROUND WIRE SCREW.

Step 4

Remove the CONTROL BOARD (CPU) TRAY ASSEMBLY, "See How To..."

**NOTE: THE LOCATIONS OF THE CONNECTORS PRIOR TO UNPLUGGING THEM FROM
THE MOTOR CONTROLLER BOARD.**

Step 5

Disconnect two connectors from the MOTOR CONTROL ASSEMBLY.

Step 6

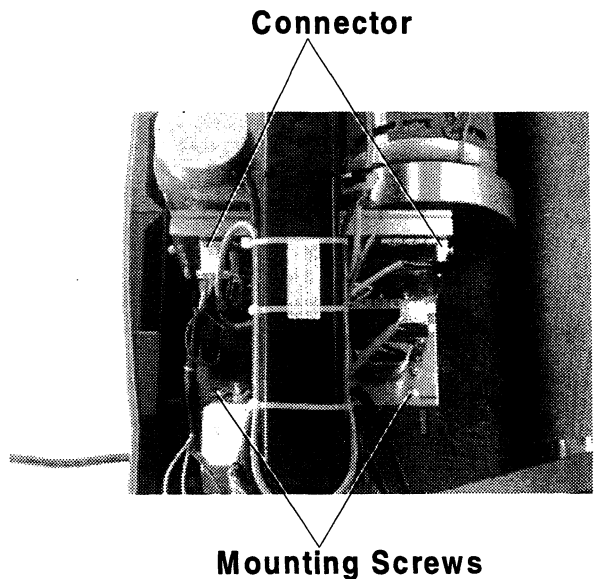
Using a Phillips screwdriver, remove the two mounting screws securing the MOTOR CONTROL BOARD to the PAN ASSEMBLY.

Step 7

Carefully lift the MOTOR CONTROLLER ASSEMBLY out of the treadmill.

Step 8

Reverse Steps 1 through 5 to return all parts to there proper locations.



Life Fitness Model 9000 Treadmill

How To...REMOVE AND REPLACE THE DISPLAY CONSOLE

Tools Required: Phillips screwdriver, hex key wrench set

Step 1

Turn the power OFF at the ON/OFF switch and by unplugging the machine at the electrical outlet.

Step 2

Remove the four SCREWS securing the CONNECTOR COVER to the bottom of the DISPLAY CONSOLE.

Step 3

Unplug the 10-PIN CONNECTOR and the 4-PIN CONNECTOR from the back of the DISPLAY CONSOLE.

Step 4

Remove the four SCREWS and WASHERS securing the DISPLAY CONSOLE to the HANDRAILS.

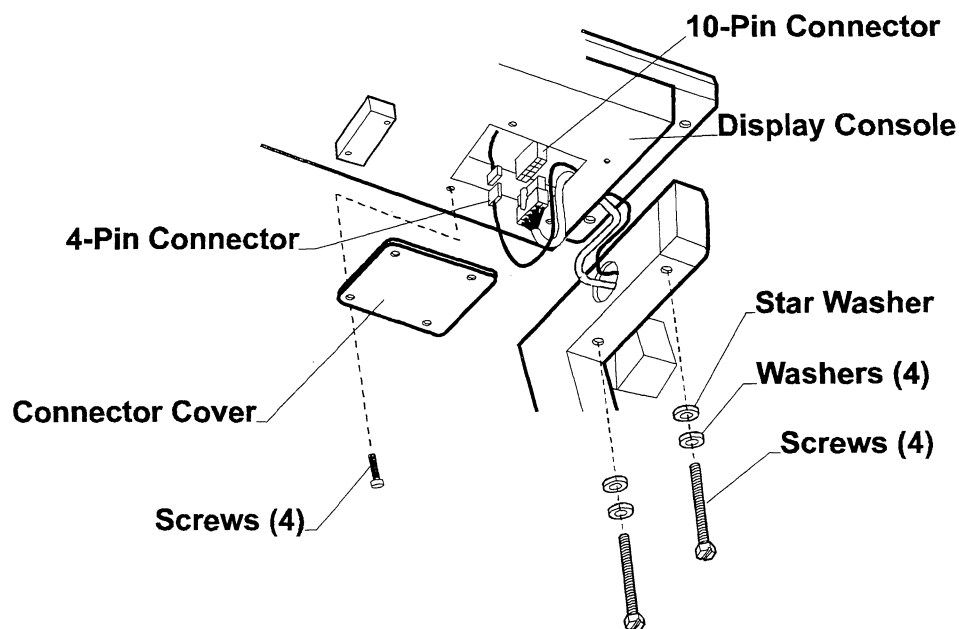
Step 5

Rest the new DISPLAY CONSOLE on the HANDRAILS, then install and tighten the four STARWASHERS, WASHERS and SCREWS in a criss-cross pattern to secure it in place. **Do not overtighten the screws.**

NOTE: BE CAREFUL NOT TO PINCH ANY WIRES BETWEEN THE DISPLAY CONSOLE AND THE BRACKETS.

Step 6

Reverse Steps 1 through 3 to complete installation.



Life Fitness 9000 Treadmill

How To...REMOVE AND REPLACE THE STOP SWITCH

Step 1

Turn the power OFF at the ON/OFF switch and by unplugging the machine at the electrical outlet.

Step 2

Remove the DISPLAY CONSOLE from the machine (See "How To...").

Step 3

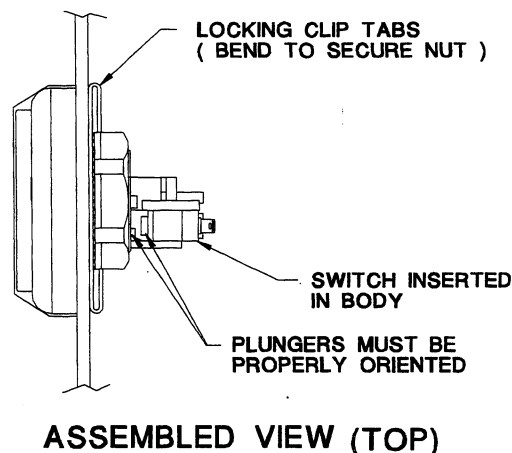
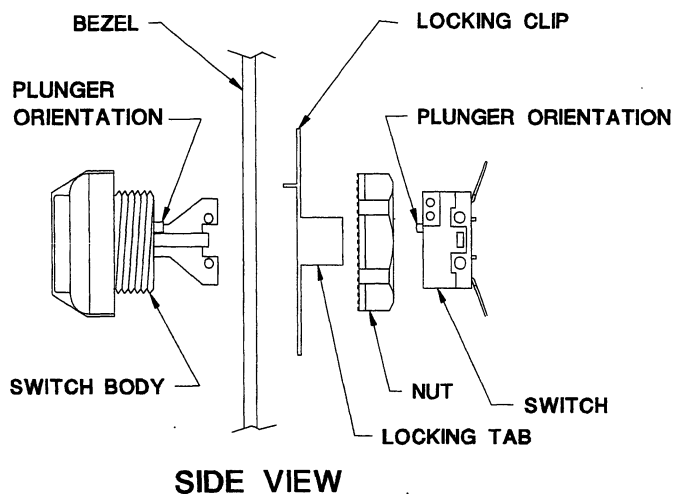
Remove the BEZEL (FACE PLATE) from the DISPLAY CONSOLE.

Step 4

Disconnect the wiring from the worn STOP SWITCH.

Step 5

Remove the worn STOP SWITCH from the BEZEL ASSEMBLY. Depending on the type of switch previously used, it may be necessary to damage the existing STOP SWITCH to accomplish this task. Take special care not to cause damage to the BEZEL ASSEMBLY during this procedure.



Step 6

Insert the STOP SWITCH BODY through the opening in the front of the BEZEL ASSEMBLY taking note to orient the SWITCH BODY so the word "STOP" is readable from the face of the BEZEL.

Step 7

Slide the locking CLIP from the rear of the BEZEL over the SWITCH BODY.

Step 8

Install the plastic NUT on to the threaded portion of the SWITCH BODY with the flat side toward the BEZEL and tighten 1/8 of a turn past hand tight. (Torque 10-15 in/lbs.)

CAUTION: OVERTIGHTENING THE NUT MAY CAUSE DAMAGE TO THE SWITCH BODY OR THE BEZEL.

Step 9

Bend each of the two LOCKING CLIP TABS of the LOCKING CLIP 90 degrees to secure the NUT into position and prevent it from rotating. It may be necessary to back off the NUT slightly to insure that the tabs come in contact with a flat spot on the NUT. The LOCKING CLIP TABS can sustain being bent several times to insure a tight lock.

Step 10

Insert the SWITCH into the SWITCH BODY taking special note to orient the two parts so the SWITCH PLUNGERS make contact upon assembly. **DO NOT** bend the CONNECTOR TABS on the switch.

NOTE: VERIFY THAT THE PLUNGERS ARE MAKING CONTACT BY PRESSING THE STOP BUTTON AND VISUALLY INSURING THEY TOUCH EACH OTHER. A CLICKING SOUND WILL BE HEARD FROM THE SWITCH IF THE ASSEMBLY HAS BEEN INSTALLED PROPERLY.

Step 11

Reconnect the wiring **being extremely careful not to bend or break the connecting tabs of the switch** and reverse Steps 1 through 3 to return all parts to their proper position.

Life Fitness 9000 Treadmill

How To...REMOVE AND REPLACE THE TELEMETRY / HR KIT

Tools Required: Phillips screwdriver

Step 1

Turn the power OFF at the ON/OFF switch and by unplugging the machine at the electrical outlet.

Step 2

Use a Phillips screwdriver to loosen and remove the two SCREWS securing the TELEMETRY/HEART RATE SENSOR COVER to the bottom of the CONSOLE PAN.

Step 3

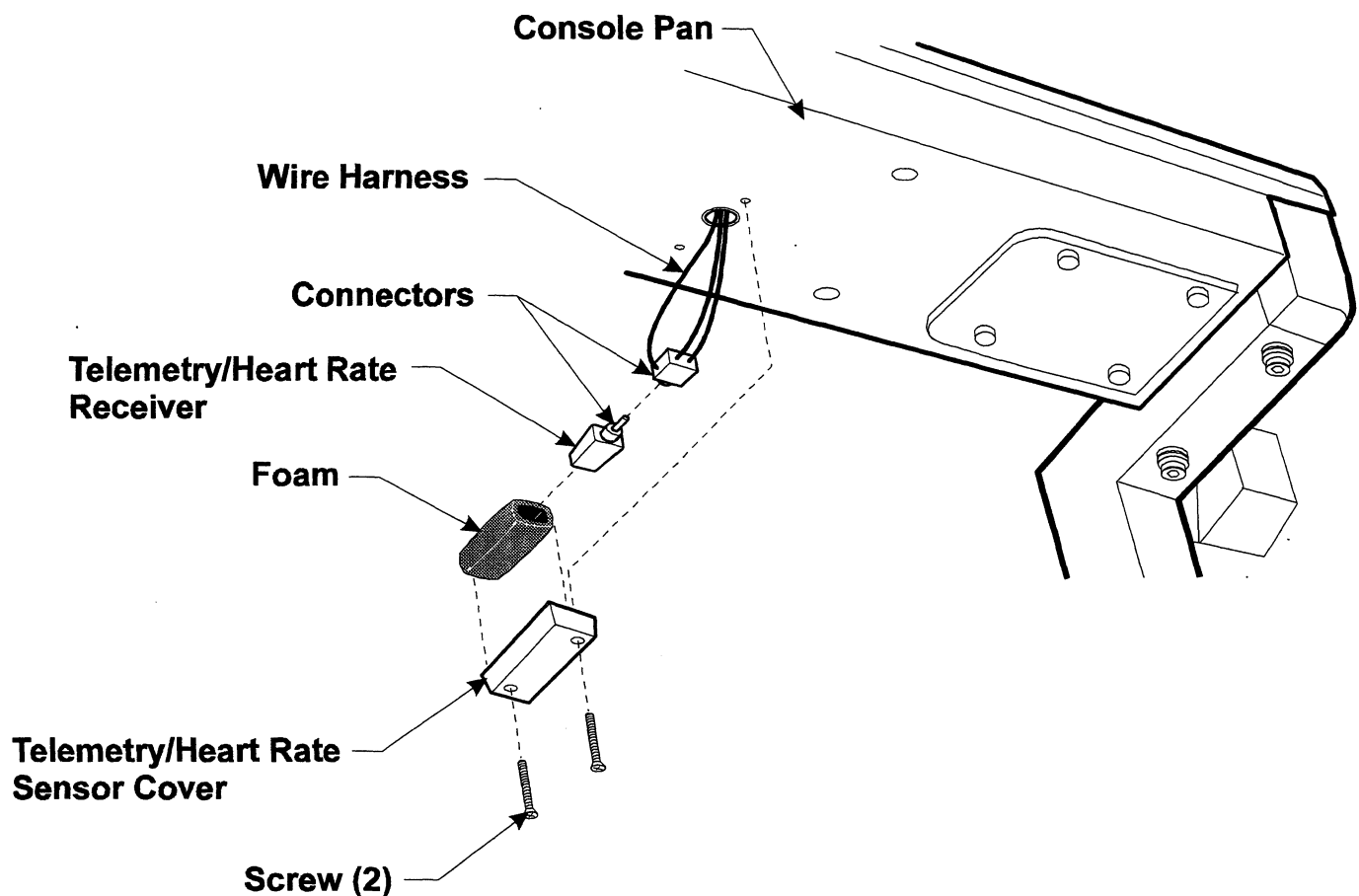
Gently pull on the WIRE HARNESS protruding from the CONSOLE PAN to provide some slack in the line. Remove the TELEMETRY/HEART RATE RECEIVER from within the protective foam and unplug the RECEIVER from the receptacle on the WIRE HARNESS.

Step 4

With the red dot facing upward toward the DISPLAY CONSOLE, install the new TELEMETRY/HEART RATE RECEIVER by reversing Steps 1 through 3 to return all parts to their proper position.

NOTE: BE SURE TO POSITION THE RED DOT ON THE TELEMETRY/HEART RATE RECEIVER UPWARD TOWARD THE DISPLAY CONSOLE.

NOTE: BE CAREFUL NOT TO PINCH ANY WIRES BETWEEN THE CONSOLE PAN AND THE HANDLEBAR.



Life Fitness 9000HR Treadmill

How To...REMOVE AND REPLACE THE HANDLEBAR

Tools Required: Phillips screwdriver, hex key wrench set, socket and ratchet set

Step 1

Turn the power OFF at the ON/OFF switch and by unplugging the machine at the electrical outlet.

Step 2

Remove the DISPLAY CONSOLE (See "How To...").

Step 3

Loosen, but do not remove, the BOLTS securing the base of the RIGHT HANDRAIL to the Treadmill FRAME.

Step 4

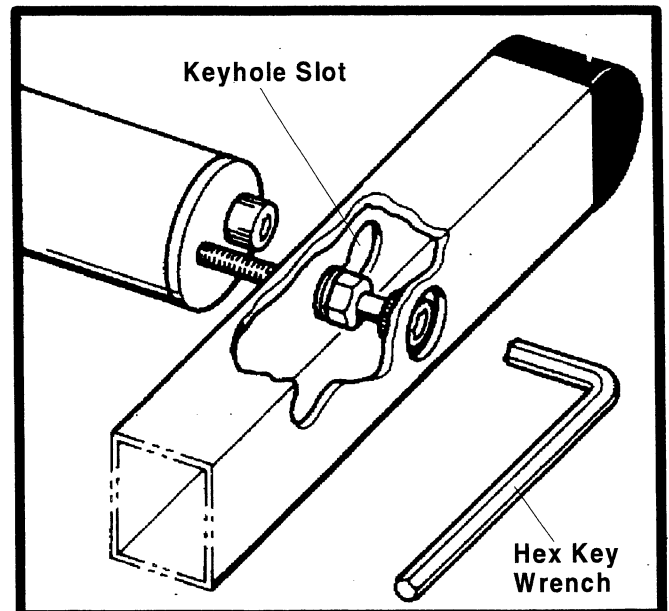
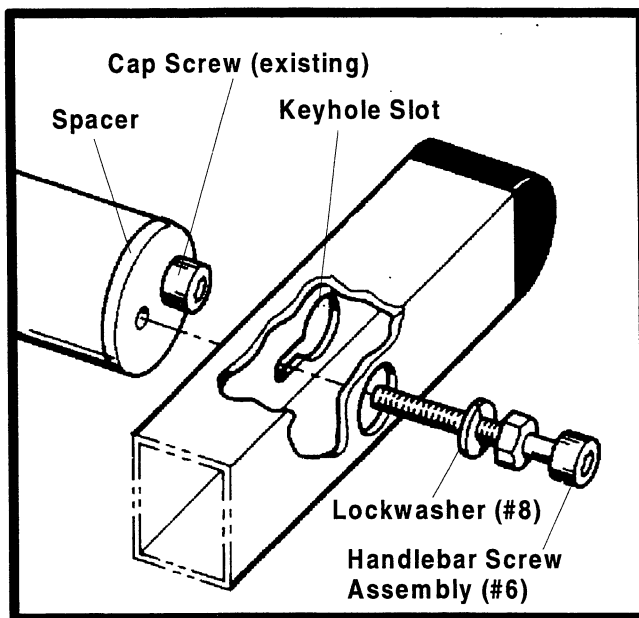
Remove the two SCREWS securing the HANDLEBAR to the two HANDRAILS. Lift out and remove the HANDLEBAR.

Step 5

Grasp the new HANDLEBAR, align the holes in the HANDLEBAR with those in the LEFT HANDRAIL and re-install the SCREWS. Repeat on the right side.

Step 6

Reverse Steps 1 through 4 to return the Treadmill to operation.



Life Fitness Model 9000 Treadmill

How To...INSTALL THE AUTOMATIC WAXING SYSTEM

Tools Required: Phillips screwdriver, Scissors

Step 1

While standing next to the treadmill, enter the diagnostic mode by pressing **9-1-9, ENTER**. Press and hold the **INCLINE UP ARROW KEY** until the incline percentage reaches 12.0.

Step 2

Turn the unit **OFF** at the **I/O** switch to keep the treadmill elevated. Unplug the unit from the electrical outlet.

Step 3

With the help of another person, tilt the unit onto its user right side.

⇒ For Refills...

Step 4

Remove the two PHILLIPS SCREWS from the LUBRICANT BAG COVER. Guide the two tabs on the LUBRICANT BAG COVER out of the two slots in the MOTOR PAN and remove the LUBRICANT BAG COVER from the treadmill. Close the FLOW CONTROL CLAMP on the INLET TUBE and remove the empty LUBRICANT BAG from the treadmill by opening the HOSE CLAMP and disconnecting the HOSE from the INLET TUBE barbed fitting.

Step 5

- Turn the power **ON** at the **I/O** switch.
- Press **CLEAR** twice.
- Enter the Diagnostic mode by pressing **5-1-2-5**, then **ENTER**.
- Press **ENTER** key to clear wax stats.
- Press the **STOP** key to exit diagnostics.

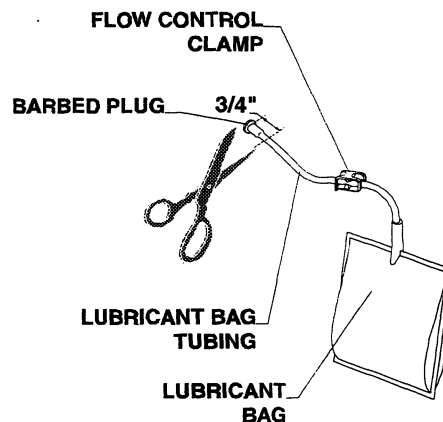
⇒ For New Installations...

Step 4

Remove the retaining tape that holds the INLET TUBE to the underside of the MOTOR PAN. Extend the INLET TUBE out to the right side of the unit.

Step 5

Attach the FLOW CONTROL CLAMP (included in Lubricant kit) to the new LUBRICANT BAG TUBING and close the CLAMP to fully seal the tube. Cut the LUBRICANT BAG TUBING approximately 3/4" from the plugged end. Discard the BARBED PLUG.



Step 6

Attach the LUBRICANT BAG tube to the barbed fitting at the end of the INLET TUBE.

Step 7

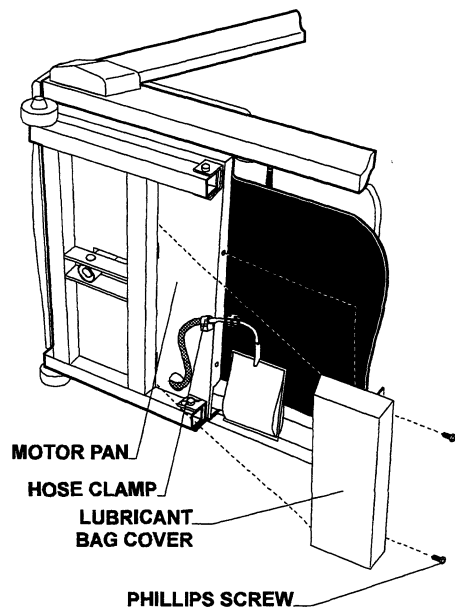
Release the FLOW CONTROL CLAMP.

Step 8

Place the LUBRICANT BAG into the BAG COVER and orient the bag as shown at right. Position the BAG COVER under the treadmill. The TUBING will fold across the top of the BAG.

Step 9

Attach the LUBRICANT BAG COVER to the MOTOR PAN by sliding the two tabs on the COVER into the two slots in the MOTOR PAN. Secure the cover to the MOTOR PAN with the two PHILLIPS SCREWS.



NOTE: BE CAREFUL NOT TO PINCH THE LUBRICANT BAG OR THE TUBING BETWEEN COVER AND MOTOR PAN.

Life Fitness Model 9000 Treadmill

HOW TO ... REMOVE AND REPLACE THE LIFT ACTUATOR

Tools Required: Phillips screwdriver, pliers

Serial #342263 ↑

Step 1

Turn the power OFF at the ON/OFF switch and then unplug the power cord from the electrical outlet.

Step 2

Remove the MOTOR COVER (See How To...”).

Step 3

Ground yourself to the machine by attaching an ANTI-STATIC GROUNDING STRAP around your wrist and the other end to a MOUNTING SCREW or a connecting GROUND WIRE SCREW.

Step 4

Disconnect the 4-PIN CONNECTOR connecting the LIFT ACTUATOR to the CONTROL BOARD. Cut wire ties as necessary.

Step 5

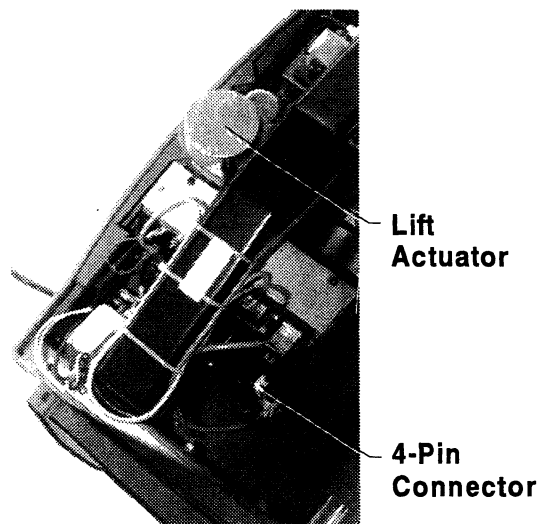
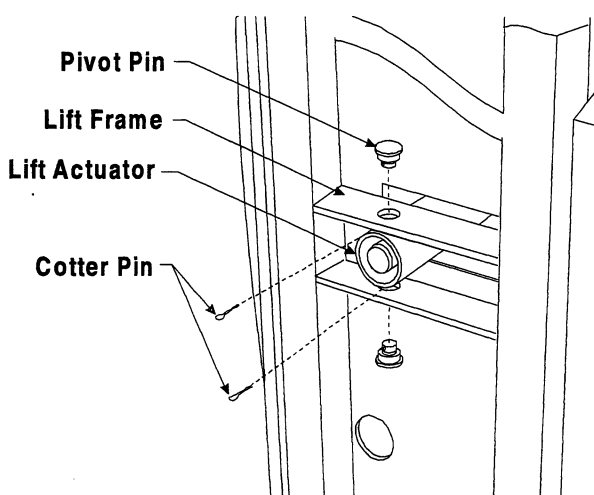
Remove the COTTER PIN from the CLEVIS PIN located under the LIFT CHANNEL and then remove the CLEVIS PIN from the LIFT ACTUATOR.

Step 6

With the help of another person, tilt the unit onto the user-right side.

Step 7

Remove the two RETAINING CLIPS securing the PIVOT PINS to the LIFT ACTUATOR through the LIFT FRAME. Remove the two PIVOT PINS and the worn LIFT ACTUATOR.



Step 8

Place the new LIFT ACTUATOR into position. Insert a PIVOT PIN through the lower LIFT FRAME and into the LIFT ACTUATOR and secure it using a new COTTER PIN. Once fully inserted, bend the ends of the COTTER PIN over to lock it in place. Repeat for the opposite side of the LIFT ACTUATOR.

Step 9

After the lower end of the LIFT ACTUATOR is secured, set the treadmill, with assistance, upright on the floor.

Step 10

Reverse Steps 1 through 5 to return all parts to their proper position

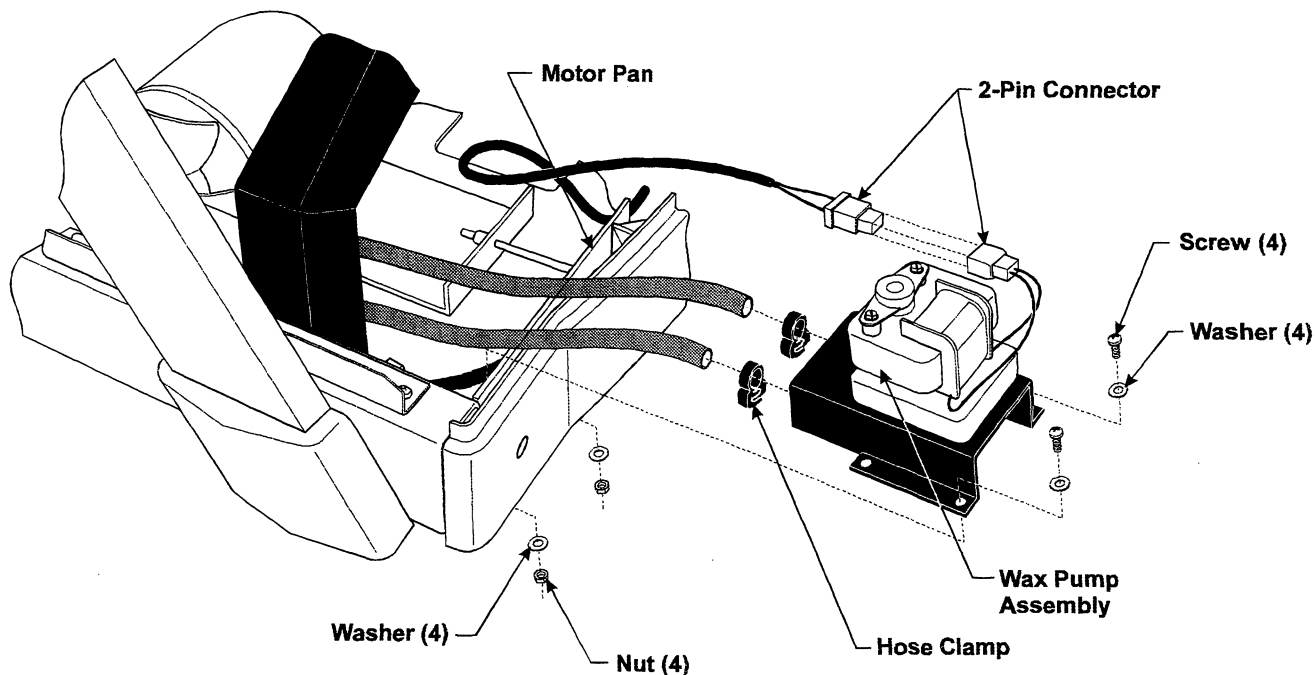
Life Fitness Model 9000 Treadmill

HOW TO ... REMOVE AND REPLACE THE WAX PUMP ASSEMBLY

Tools Required: Phillips screwdriver, socket set, pliers

Step 1

Turn the power OFF at the ON/OFF switch and then unplug the unit from the electrical outlet



Step 2

Remove the MOTOR COVER (See How To...").

Step 3

Disconnect the 2-PIN CONNECTOR leading to the WAX PUMP ASSEMBLY.

Step 4

Using a Phillips screwdriver and a socket wrench, remove the four SCREWS, WASHERS, and NUTS securing the WAX PUMP ASSEMBLY to the MOTOR PAN.

Step 5

Using standard pliers, remove the HOSE CLAMPS and barbed fittings (if necessary) from both wax lines located beneath the WAX PUMP ASSEMBLY. Remove the worn WAX PUMP ASSEMBLY.

Step 6

Place the new WAX PUMP ASSEMBLY in position and reverse steps 1 through 5 to return all parts to their proper locations.

Life Fitness Model 9000 Treadmill

HOW TO ... REMOVE AND REPLACE THE ON/OFF SWITCH

Tools Required: Phillips screwdriver

Step 1

Turn the power OFF at the ON/OFF switch and then unplug the unit from the electrical outlet.

Step 2

Remove the MOTOR COVER (See How To...").

NOTE: TAKE A MOMENT TO NOTE THE LOCATIONS OF THE CONNECTORS PRIOR TO UNPLUGGING THEM FROM THE SWITCH.

Step 3

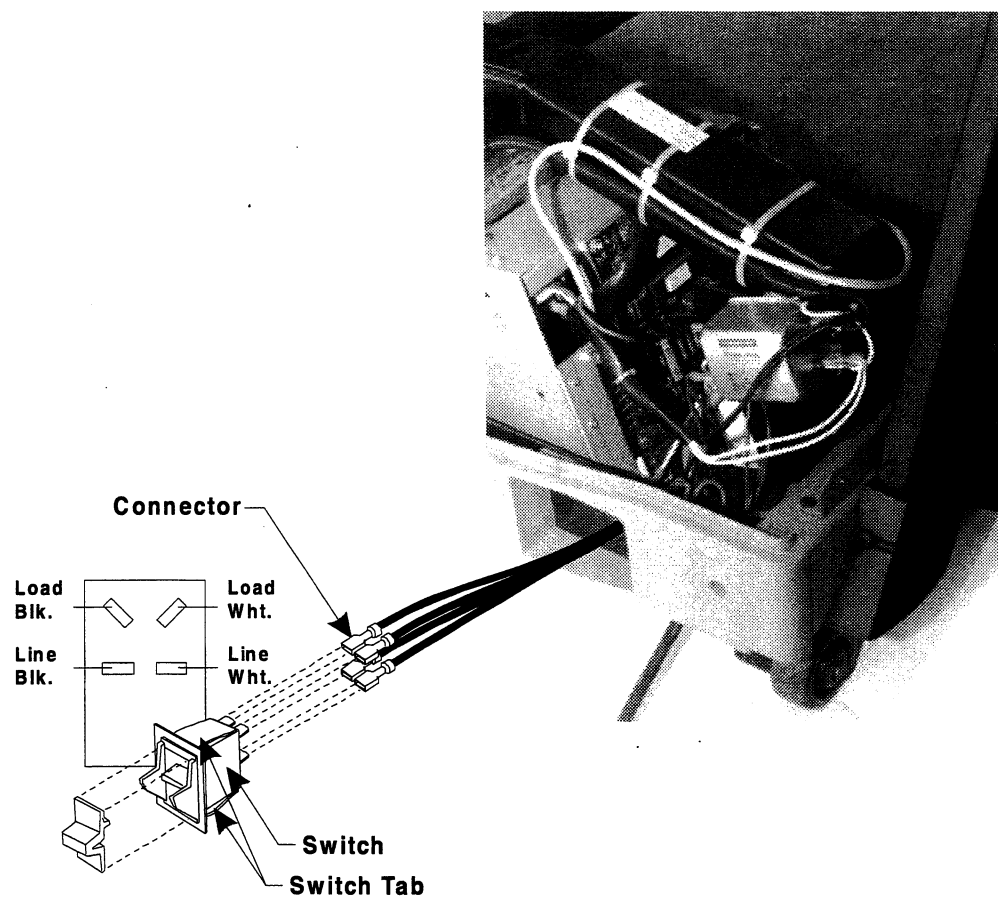
Remove the four CONNECTORS from the SWITCH.

Step 4

Depress the top and bottom tabs securing the SWITCH to the MOTOR PAN and remove the faulty SWITCH.

Step 5

Place the new SWITCH in position and reverse steps 1 through 4 to return all parts to their proper locations.



Life Fitness Model 8500/9000 Treadmill

HOW TO ... REMOVE AND REPLACE THE AC LINE CORD

Tools Required: Phillips screwdriver

Step 1

Turn the power OFF at the ON/OFF switch and then unplug the unit from the electrical outlet.

Step 2

Remove the four SCREWS securing the MOTOR COVER and set aside.

Step 3

Using a pair of pliers, grasp the STRAIN-RELIEF securing the AC LINE CORD to the MOTOR PAN and carefully pull the AC LINE CORD out of the MOTOR PAN (the STRAIN RELIEF on the model 9000 treadmill is located on the bottom of the MOTOR PAN).

Step 4

Depress the top and bottom tabs securing the ON/OFF SWITCH to the MOTOR PAN and carefully remove the ON/OFF SWITCH from the front of treadmill.

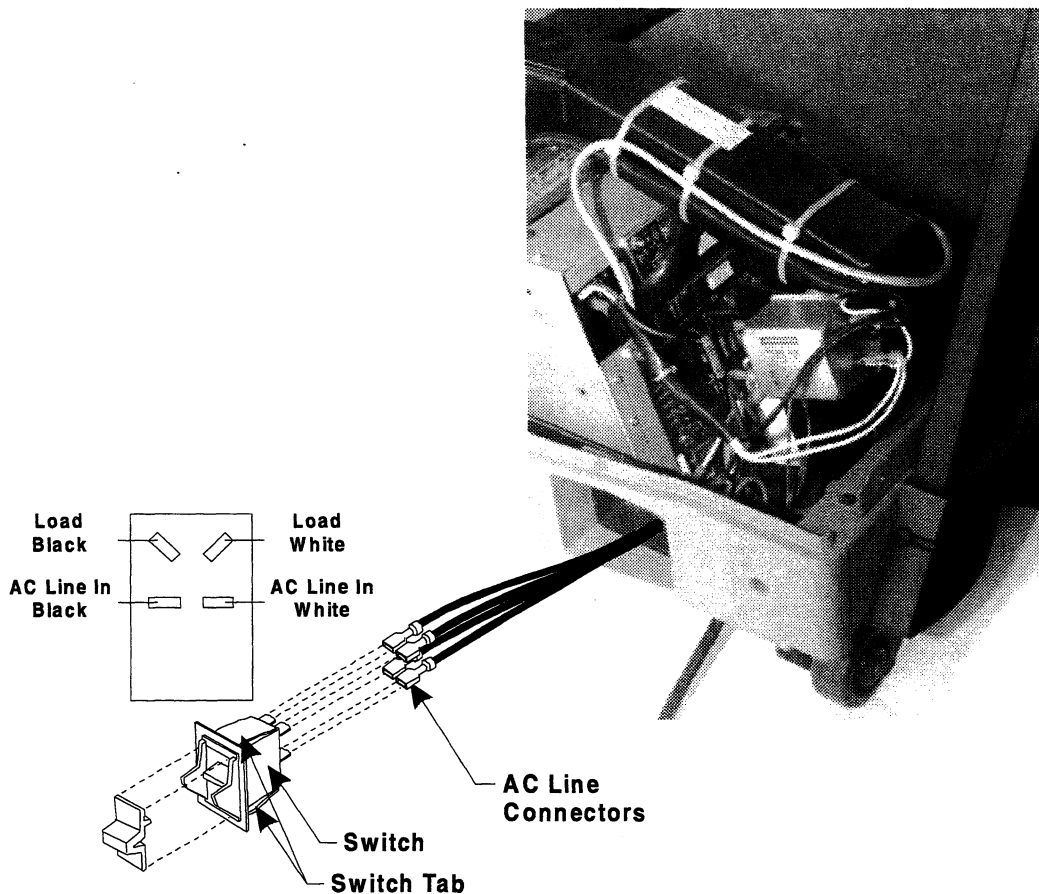
NOTE: TAKE A MOMENT TO NOTE THE LOCATIONS OF THE CONNECTORS PRIOR TO UNPLUGGING THEM FROM THE SWITCH.

Step 5

Remove the two AC LINE CONNECTORS from the ON/OFF SWITCH and remove the GROUNDING SCREW from the MOTOR PAN.

Step 6

Place the new AC LINE CORD in position and reverse steps 1 through 5 to return all parts to their proper locations.



Lifestride Model 9000 Treadmill

How To...REMOVE AND REPLACE THE DISPLAY WIRE HARNESS

Tools Required: Phillips screwdriver, hex key wrench set

Step 1

Turn the power OFF by unplugging the unit at the wall outlet.

Step 2

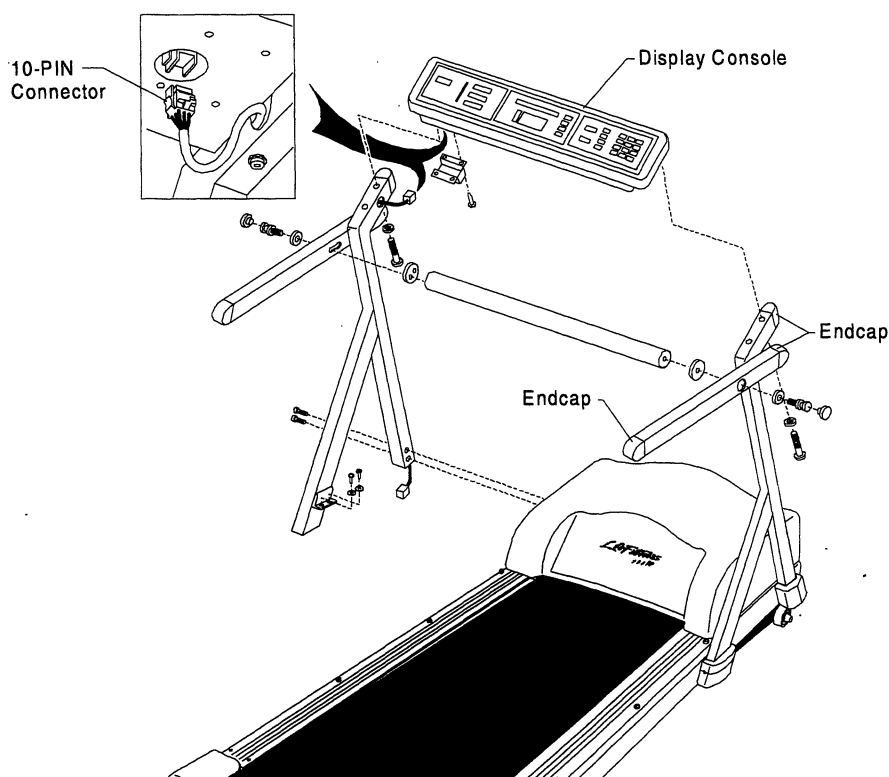
Remove the DISPLAY CONSOLE (See "How To...").

Step 3

Remove the HANDLEBAR (See "How To...").

Step 4

Remove the two SCREWS securing the base of the LEFT HANDRAIL to the FRAME and slowly lift the HANDRAIL to allow you to disconnect the 9 or 10-PIN CONNECTORS within. Set the HANDRAIL to the side.



Step 5

Tie some string between the new and worn WIRE HARNESS. Gently pull the old WIRE HARNESS out of the HANDRAIL replacing it with the new. (Both ends are female).

Step 6

Reconnect the 9 or 10-PIN CONNECTORS at the base of the HANDRAIL. Align the mounting holes in the HANDRAIL with those in the FRAME and reinstall the two SCREWS finger tight only at this point.

NOTE: BE CAREFUL NOT TO PINCH WIRES BETWEEN THE HANDRAIL, FRAME OR DISPLAY CONSOLE.

Step 7

Reverse Steps 1 through 3 to return all parts to their proper positions.

Life Fitness Model 9000 Treadmill

HOW TO ... REMOVE AND REPLACE FRONT ROLLER ASSEMBLY

Tools Required: Phillips screwdriver, hex key wrench set, socket set

Step 1

Turn the power OFF at the ON/OFF switch and then unplug the unit from the electrical outlet.

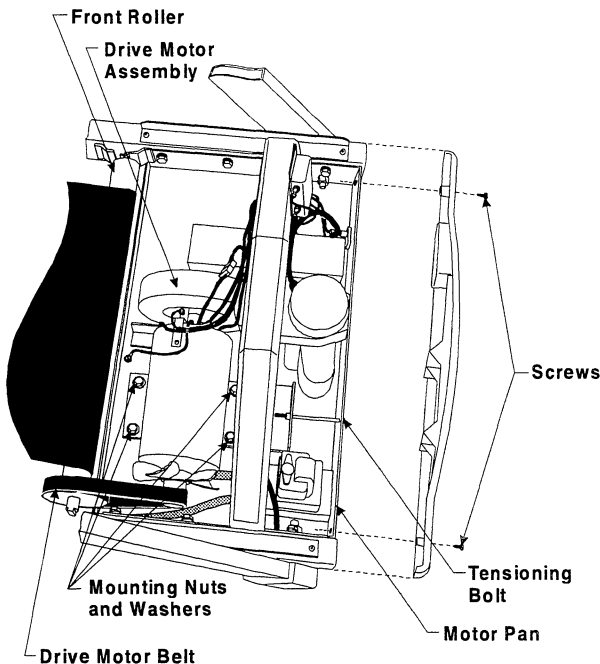
Step 2

Remove the MOTOR COVER. "See How To..."

Step 3

Use a Phillips screwdriver to remove two SCREWS from FRONT PANEL.

HELPFUL HINT: MARK OR SCORE THE PLACEMENT OF THE DRIVE MOTOR MOUNTING BRACKET. THIS WILL AID IN RE-TENSIONING THE DRIVE MOTOR BELT.



Step 4

Use a socket wrench (1/2") to loosen the four NUTS securing the DRIVE MOTOR ASSEMBLY to the MOTOR PAN.

Step 5

Use socket wrench (7/16") to loosen the DRIVE MOTOR TENSIONING BOLT.

Step 6

Push the DRIVE MOTOR ASSEMBLY towards the FRONT ROLLER to relieve the tension on the DRIVE MOTOR BELT, and roll the DRIVE MOTOR BELT off the FRONT ROLLER.

Step 7

Use a hex key wrench (1/4") to loosen the REAR TENSIONING BOLTS to slacken the STRIDING BELT.

NOTE: MAKE OR COUNT ROTATION TO RETURN BELT BACK TO PROPER TENSION.

Step 8

Use a socket wrench (1/2") to loosen the left side of FRONT ROLLER.

Step 9

Carefully lift left side of FRONT ROLLER ASSEMBLY from the FRAME BRACKET and remove right side from out of the FRAME and DRIVE MOTOR BELT.

Step 11

Carefully pull FRONT ROLLER ASSEMBLY out from (users) right side of treadmill.

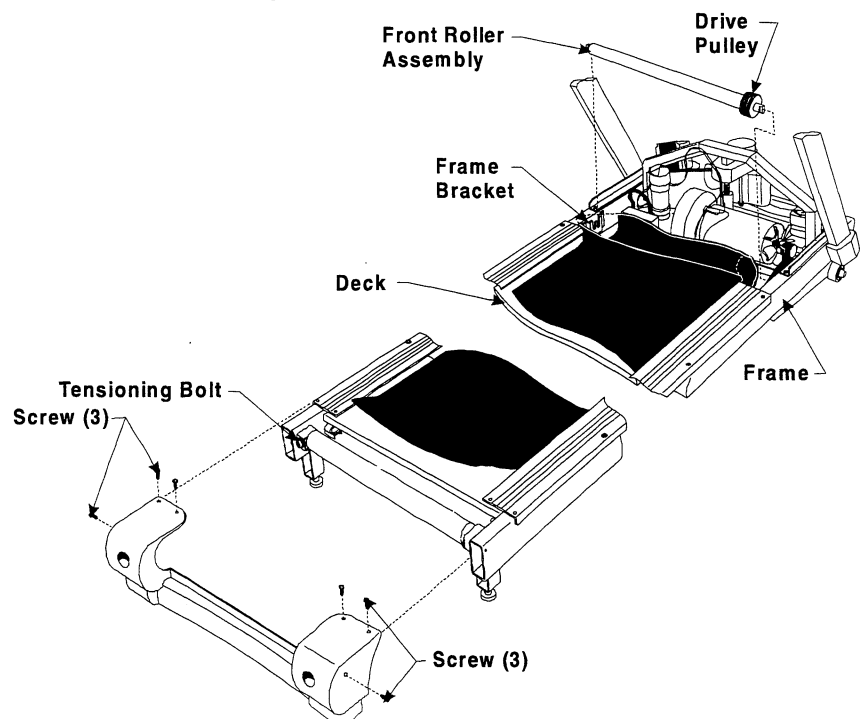
Position the DRIVE PULLEY side of FRONT ROLLER ASSEMBLY in the designated whole and the left side in the slot closest to the DECK.

Step 13

Reverse Step 1 through 12 to return all parts to proper position.

Step 14

Refer to "How To...Adjust and Tension the Striding Belt" for proper belt tensioning instructions.



Life Fitness Model 9000 Treadmill

HOW TO...REMOVE AND REPLACE THE REAR END CAP PANEL

Tools Required: Phillips screwdriver

Step 1

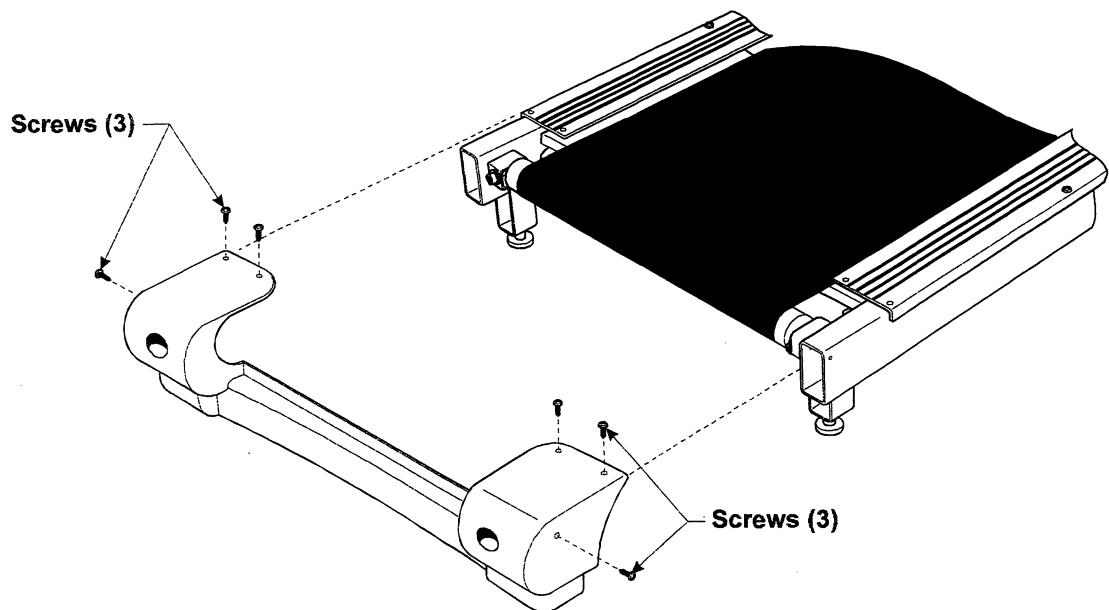
Turn the power OFF at the ON/OFF switch and then unplug the unit from the electrical outlet.

Step 2

Using a Phillips screwdriver, remove the three SCREWS from each side of the REAR END CAP PANEL and remove the damaged REAR END CAP PANEL.

Step 3

Position the new REAR END CAP PANEL in place and replace the three SCREWS to each side.



Life Fitness Model 9000 Treadmill

HOW TO... REMOVE AND REPLACE REAR ROLLER ASSEMBLY

Tool Required: Phillips Screw Driver, Hex Key Set

Step 1

Turn OFF the unit at the ON/OFF switch, then unplug the unit from the electrical outlet.

Step 2

Use a Phillips screwdriver to remove the three SCREWS from each side of the REAR PANEL and set a side.

HELPFUL HINT: MARK THE POSITION OF THE REAR ROLLER ON THE INSIDE OF THE MOUNTING BRACKET TO LOCATE ITS ORIGINAL PLACEMENT. THIS WILL HELP WHEN RE-TENSIONING STRIDING BELT.

Step 3

Use hex key wrench (1/4") to loosen and remove the TENSIONING BOLTS and WASHERS securing each side of the REAR ROLLER MOUNTING BRACKET.

Step 4

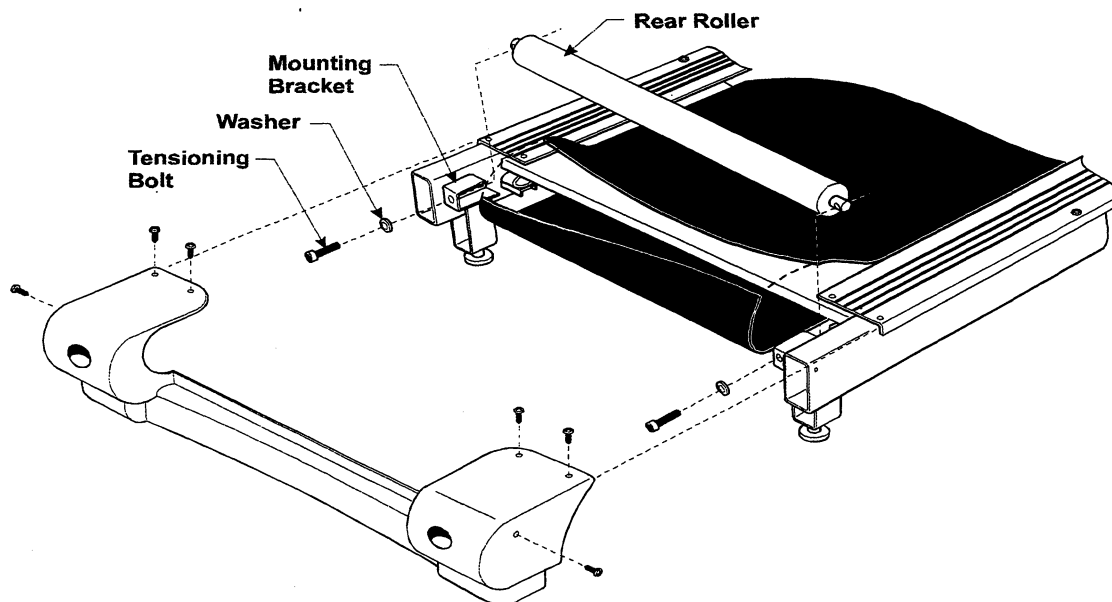
Remove the worn REAR ROLLER from the machine.

Step 5

Position the new REAR ROLLER against the MOUNTING BRACKETS and reverse Steps 1 through 4 to return all parts to proper locations.

Step 6

Refer to "How To... ADJUST and TENSION THE STRIDING BELT" for proper BELT Tensioning instructions.



Life Fitness Model 9000 Treadmill

HOW TO ... REMOVE AND REPLACE (OR FLIP) THE DECK

Tools Required: Phillips screwdriver, hex key wrench set

ATTENTION: THE DECK MUST BE REPLACED OR FLIPPED TO AN UNUSED SIDE WHENEVER INSTALLING A NEW STRIDING BELT. IF THE DECK IS TO BE FLIPPED, CAREFULLY CLEAN ANY DUST OR DIRT FROM THE BACK SIDE OF THE DECK WITH SOAP AND WATER BEING CAREFUL NOT TO REMOVE ANY WAX PRIOR TO INSTALLATION. RESET WAXER DELAY AFTER INSTALLATION OF A NEW DECK.

Step 1

Turn the power OFF at the ON/OFF switch and then unplug the unit from the electrical outlet.

Step 2

Remove the REAR END CAP PANEL (See "How To...").

Step 3

Using a Phillips screwdriver, remove the eight SCREWS securing the SIDE EXTRUSION PANELS to the frame and remove the SIDE EXTRUSION PANELS.

Step 4

Using a hex key wrench (1/4"), alternately loosen the right and left side TENSIONING BOLTS an **equal number of turns counter-clockwise** to slacken STRIDING BELT. Turn each TENSIONING BOLT approximately two (2) full turns at a time.

Step 5

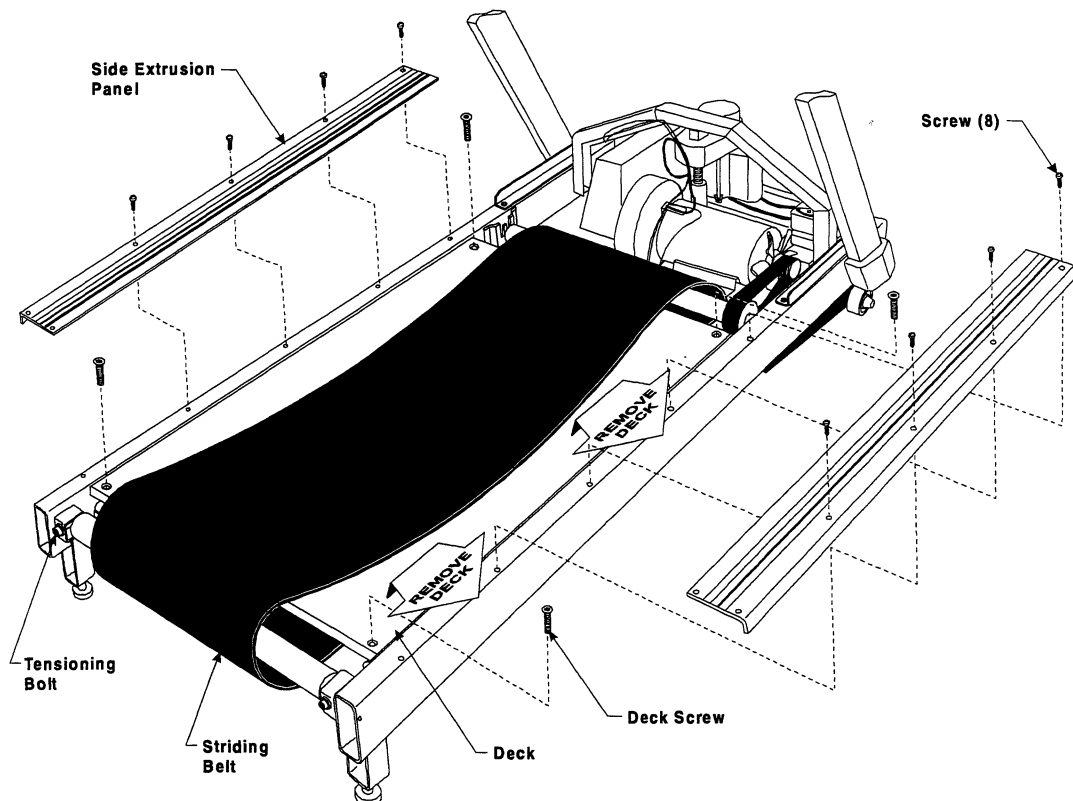
Using a hex key wrench (5/32"), remove the four corner DECK SCREWS and carefully slide DECK out from under the STRIDING BELT.

Step 6

Carefully slide the new DECK into position and reverse steps 1 through 5 to return all parts to their proper positions.

CAUTION! WHEN RE-INSTALLING THE DECK, AVOID SCRAPING ANY WAX THAT MAY BE ON EITHER DECK SURFACE.

Life Fitness Model 9000 Treadmill



HOW TO...REMOVE AND REPLACE THE STRIDING BELT

Tools Required: Phillips screwdriver, hex key wrench set, socket set, 1/2" open end wrench

ATTENTION: THE DECK MUST BE REPLACED OR FLIPPED TO AN UNUSED SIDE WHENEVER INSTALLING A NEW STRIDING BELT. IF THE DECK IS TO BE FLIPPED, WIPE IT CLEAN WITH SOAP AND WATER BEING CAREFUL NOT TO REMOVE ANY WAX PRIOR TO INSTALLATION.

Step 1

Turn the power OFF at the ON/OFF switch and then unplug the unit from the electrical outlet.

Step 2

Remove the MOTOR COVER (See "How To...").

Step 3

Remove the REAR ROLLER (See "How To...").

Step 4

Remove the DECK (See "How To...").

Step 5

Using a Phillips screwdriver, loosen the user-right side screw of the BELT GUIDE BRACKET and remove the user-left side screw from BELT GUIDE BRACKET.

Step 6

Using an open end wrench (1/2"), loosen the left side of FRONT ROLLER ASSEMBLY at the FRAME BRACKET.

Step 7

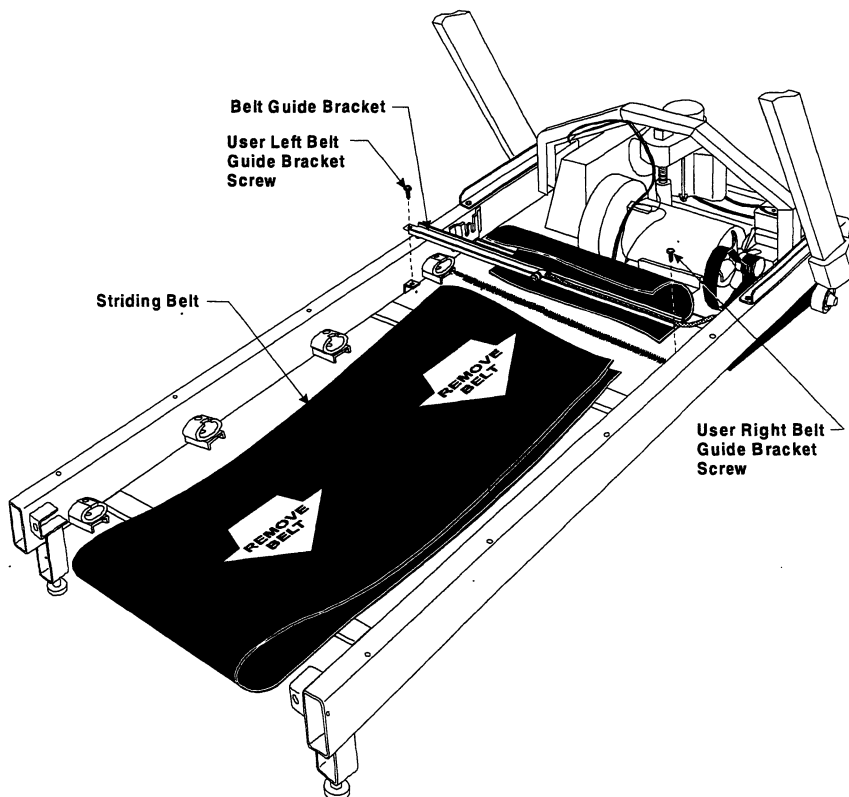
Carefully lift the user-left side of the FRONT ROLLER ASSEMBLY out of the FRAME BRACKET and slide the STRIDING BELT from the FRONT ROLLER and BELT GUIDE BRACKET.

Step 8

Reposition the new STRIDING BELT around the FRONT ROLLER ASSEMBLY and BELT GUIDE BRACKET. Reverse steps 1 through 9 to return all parts to their proper positions.

Step 9

Refer to "HOW TO...ADJUST AND TENSION THE STRIDING BELT" for proper belt tensioning instructions.



SECTION III

NOTE: TOGGLE WAXER DELAY TO STATE WAX DELAY "ON" AFTER INSTALLATION OF A NEW STRIDING BELT. SEE "DIAGNOSTICS..."

NOTE: DRIVE BELT TENSION SHOULD BE BETWEEN 90 FT/LBS FOR EXISTING AND 100 FT/LBS FOR A NEW DRIVE BELT. STRIDING BELTS TENSION SHOULD BE .65%. (IF GAUGES ARE AVAILABLE) FOR STRIDING BELT TO BE CENTERED, THERE SHOULD BE 3 INCHES (ON EACH SIDE, MEASURED) FROM THE EDGE OF THE STRIDING BELT TO THE EDGE OF THE DECK.

Life Fitness Model 9000 Treadmill

HOW TO... ADJUST AND TENSION THE STRIDING BELT

Tools Required: Hex key wrench set, Phillips screwdriver

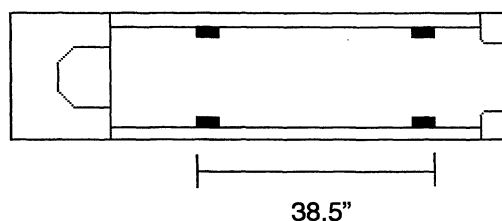
CAUTION: DO NOT MOVE OR PLACE YOUR HANDS UNDER THE UNIT WHILE THE MACHINE IS PLUGGED INTO AN ELECTRICAL OUTLET.

It is **EXTREMELY** important that the treadmill be correctly leveled prior to any tracking adjustments. An unstable unit may cause Striding Belt misalignment.

Adjust or (set) Proper Tension for New Striding Belt

Step 1

After installing new STRIDING BELT, but prior to tensioning, place two pieces of tape exactly 38.5" inches apart on **BOTH** the right and left edges of the STRIDING BELT.



Step 2

Alternately tighten the two tensioning bolts 1/4 turn clockwise each until the distance between the tape is 38.75" which is the equivalent of a quarter inch or .65% stretch.

Step 3

Adjust the Tracking ("See How To...)

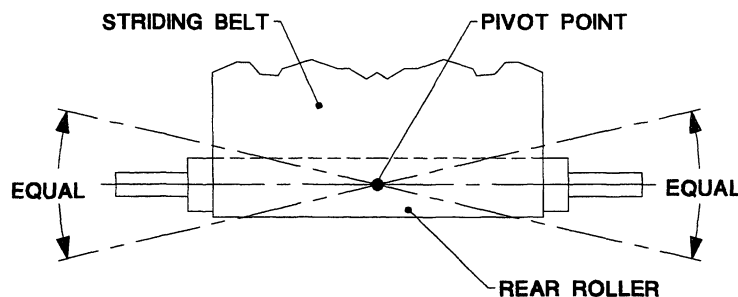
Tracking (Centering) an Existing or New Striding Belt

Step 1

Locate the two belt TENSIONING BOLTS on each side of the REAR ROLLER MOUNTING BRACKETS. The TENSIONING BOLTS are accessible from the holes provided in the END CAPS.

Step 2

Enter the Manual program and set the belt speed to run at 4.0 mph (6.4 kph).



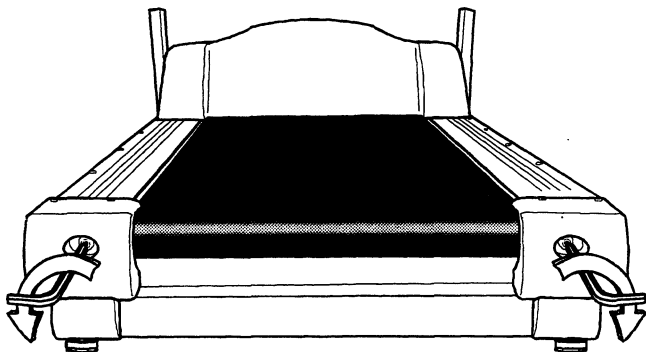
NOTE: EACH ADJUSTMENT MADE TO ONE SIDE OF THE REAR ROLLER MUST BE MET WITH AN EQUAL AND OPPOSITE ADJUSTMENT TO THE OTHER SIDE OF THE REAR ROLLER TO MAINTAIN AN IDEAL BELT TENSION AT THE PIVOT POINT.

Life Fitness Model 9000 Treadmill

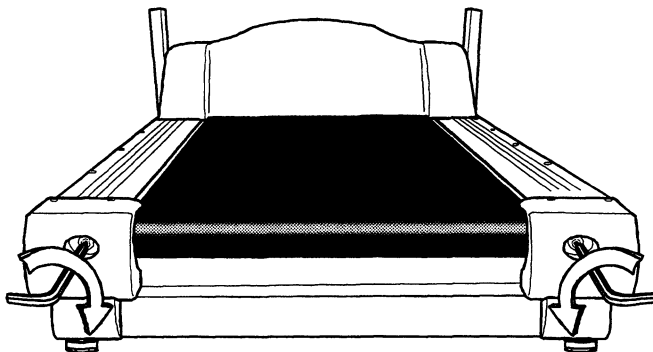
HOW TO... ADJUST AND TENSION THE STRIDING BELT

Tools Required: Hex key wrench set, Phillips screwdriver

CAUTION: DO NOT OVER TIGHTEN THE TENSIONING BOLTS WHILE MAKING BELT ADJUSTMENTS. OVER TIGHTENING OF BOLTS MAY OVER-STRETCH AND DAMAGE THE STRIDING BELT AS WELL AS PLACE AN EXCESSIVE LOAD ON THE FRONT AND REAR ROLLER BEARINGS.



If the STRIDING BELT has moved to the **right**, turn the right TENSION BOLT 1/4 turn clock-wise and the left TENSION BOLT 1/4 turn counter-clockwise to start the STRIDING BELT tracking back to the center of the REAR ROLLER.



If the STRIDING BELT has moved to the **left**, turn the left TENSION BOLT 1/4 turn clock-wise and the right TENSION BOLT 1/4 turn counter-clockwise to start the STRIDING BELT tracking back to the center of the REAR ROLLER.

Step 3

Repeat adjustments until the STRIDING BELT appears centered. Allow the machine to continue running for several minutes to observe if the tracking remains stabilized.

CAUTION: DO NOT MOVE OR PLACE YOUR HANDS UNDER THE UNIT WHILE THE MACHINE IS PLUGGED INTO AN ELECTRICAL OUTLET.

It is **EXTREMELY** important that the treadmill be correctly leveled prior to any tracking adjustments. An unstable unit may cause Striding Belt misalignment.

Tensioning an Existing Striding Belt

Step 1

Locate the two BELT TENSIONING BOLTS on each side of the REAR ROLLER MOUNTING BRACKETS. The TENSIONING BOLTS are accessible from the holes provided in the REAR END CAP PANELS.

Step 2

Enter the Manual program and run unit for five minutes at 5.0 mph (8.0 kph). **DO NOT** run on the BELT.

Step 3

Using the speed decrease button ▽, bring the STRIDING BELT speed down to 2 mph (3.2 kph). With the STRIDING BELT speed at 2 mph (3.2 kph), begin walking on the treadmill. Tightly grasp the HANDRAILS and attempt to stall the STRIDING BELT. If the STRIDING BELT slips, continue to Step 4. If it does not slip, the tension is correct.

Step 4

Stop the treadmill and alternately turn the STRIDING BELT TENSIONING BOLTS 1/4 turn clock-wise to tension (See **Tracking (Centering) an Existing or New Striding Belt** on previous page). Repeat Step 3 and Step 4 until slipping is eliminated. **DO NOT EXCEED ONE FULL TURN!**

Life Fitness Model 9000 Treadmill

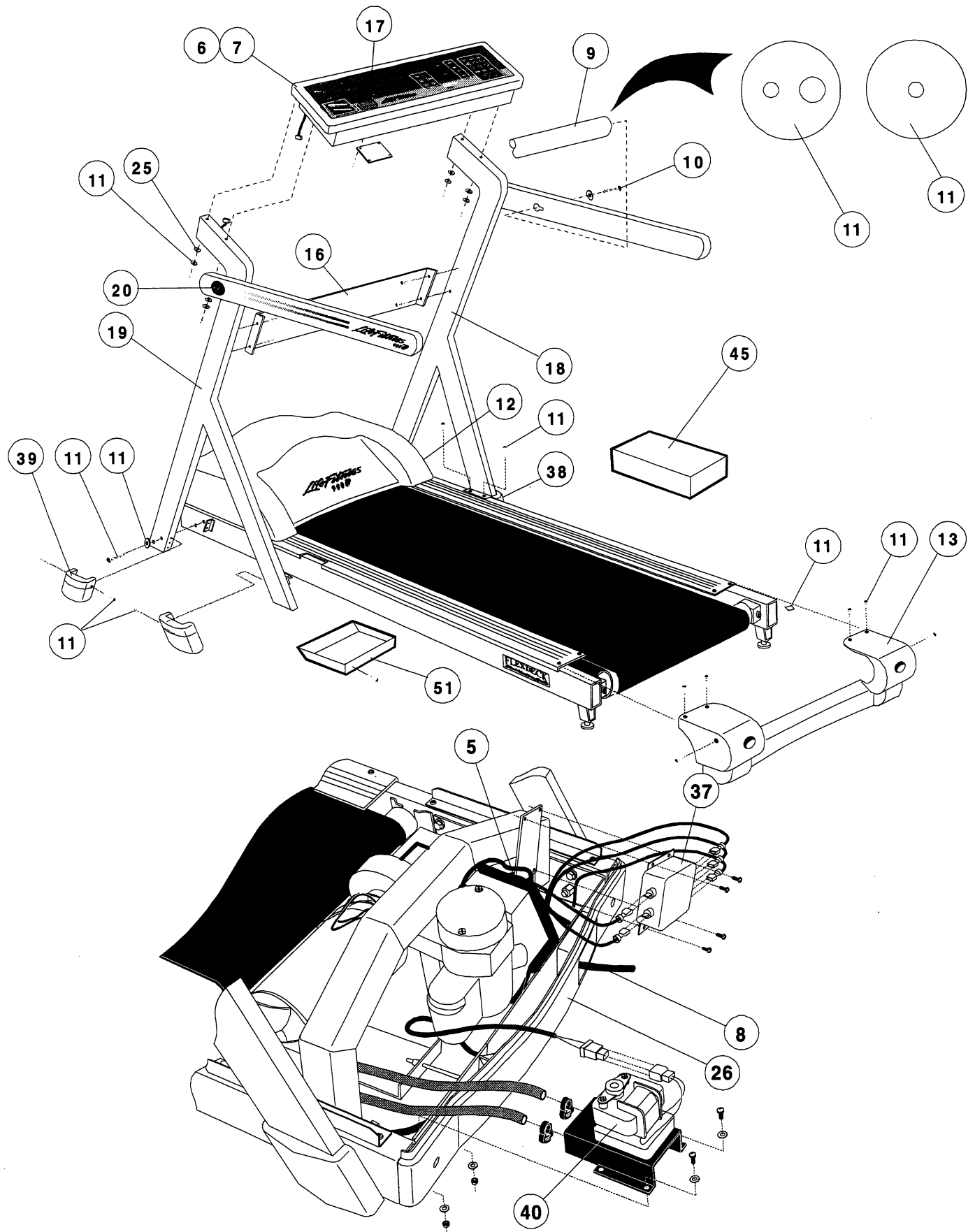
PARTS DESCRIPTION

ITEM		DESCRIPTION	PART NUMBERS	DESCRIPTION (PARTS NOT SHOWN)	PART NUMBERS
1		Drive Motor 2.0hp	OK26-01540-0001		
2		Motor Controller	OK26-02165-0002		
3		Front Roller Assy 2.5"	AK45-00030-0000		
4		Rear Roller	OK45-01002-0000		
5		Control Bd (CPU)	AK45-00058-0000		
6		Console Assy	SK26-00611-0001	*Home Switch	
7		Overlay Bezel	AK26-00610-0001	*Motor/Choke	AK45-00023-0000
8		Line Cord	AK45-00018-0001	*Disp/Cons	AK45-00051-0000
9		Handlebar	OK26-01594-0000	*Stop Sw Cbl	AK26-00407-0001
10		Handlebar Bolt Assy	AK26-00550-0000	*Emerson Cbl	AK26-00535-0002
11		Hardware Kit	AK45-00049-0000	*Disp/Cont	AK45-00052-0000
12		Motor Shroud Assy	AK45-00055-0000	*Waxer Cbl	AK45-00021-0000
13		End Cap; rear	OK36-01085-0004	*Filter/Pwr Cbl	AK45-00053-0000
14		Extrusion RT Blk	OK36-01125-0003		
15		Extrusion LT Blk	OK36-01125-0004		
16		Support: Center	OK45-01027-0001		
17		Stop Switch Kit	FK26-00002-0051		
18		Handle Assy RT	AK45-00044-0003 *		
19		Handle Assy LT	AK45-00044-0004		
20		Belt : Drive Motor	OK45-01071-0000		
21		Actuator: Lift	OK36-01012-0004		
22 *				Wheel (only)	OK40-01021-0000
23 *				Hardware to hold wheel	GK45-00002-0008
24		Lift Hse/Mounting Pin(1) →	GK45-00002-0009		
		Hairpin Hse/Mt (1)			
26		Panel : Front	OK36-01013-0001		
27		Belt Guide w/lube assy	AK45-00034-0000		
28		Striding Belt	OK45-01005-0001 *		
29		Deck	OK45-01003-0000		
30		Tespak LF Spring	OK40-01026-0001		
31		Tinsel	OK26-01764-0000		
32 *		Spring: Tinsel	0017-00009-0901		
33		Leveler Leg	0017-00009-0796		
34 *		Home Switch	0017-00032-0178		
35 *		On/Off Switch	AK40-00052-0000		
36 *		Removable On/Off Key	0017-00032-0191		
37		Line Filter	0017-00003-0882		
38		Side Cap RT	OK36-01089-0007		
39		Side Cap LT	OK36-01089-0008		
40		Wax Pump	AK45-00032-0000		
41		Brass Nozzle	0017-00009-0842		
42		Wax Nozzle	0017-00009-0842		
43 *		Gaurd: Hose	OK45-01042-0000		
44 *		Pulley: sheild	OK45-01039-0000		
45 *		Wax Fill Kit	GK45-00002-0004		
46 *		Manual: Oper/Clr	MO51-00K45-A004		
47 *		Manual: Service	MO51-00K45-A005		
48 *		Bag Assy	AK45-00056-0001 *	Op/mmnual Warr/card	
49 *		Decal: Motor Shroud	OK45-01013-0000		
50 *		Decal: Bottom Rail	OK45-01067-0000		
51		Wax Pan	OK45-01036-0000		
52 *		Spray Nozzle - Body	0017-00009-0809		

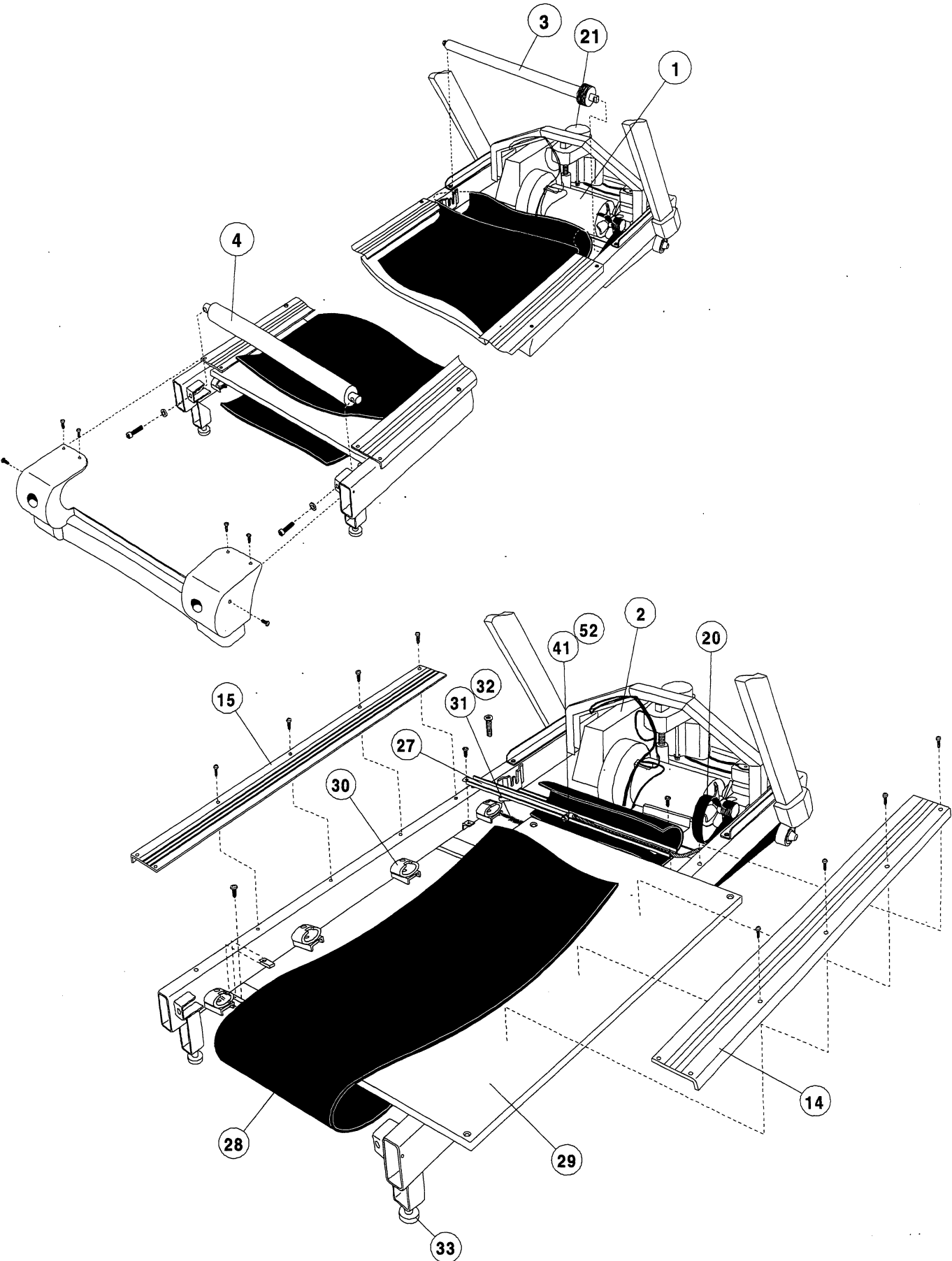
SECTION IV

Life Fitness Model 9000 Treadmill

PARTS DESCRIPTION



Life Fitness Model 9000 Treadmill
PARTS DESCRIPTION



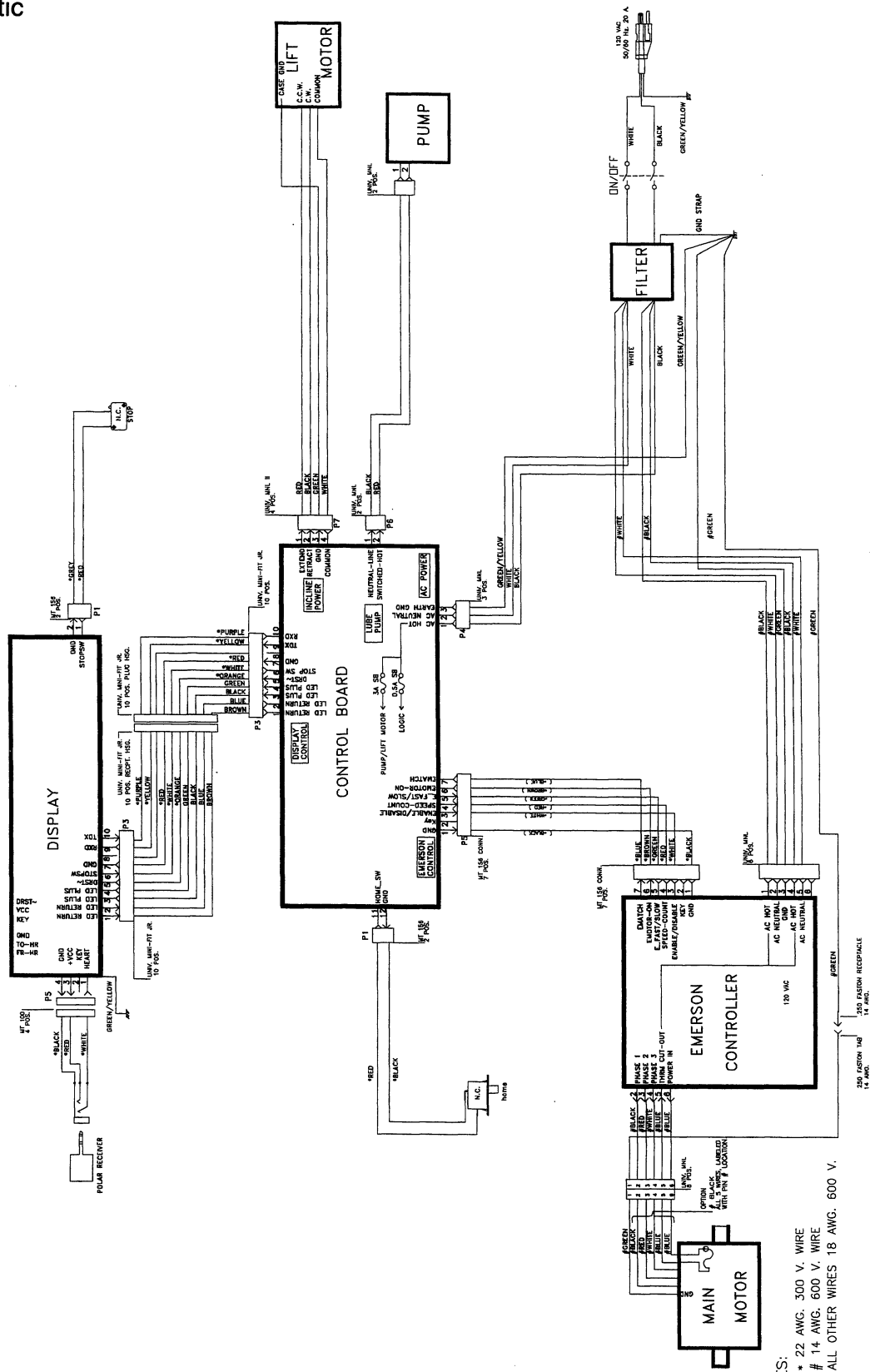
SECTION IV

Life Fitness Model 9000 Treadmill

NOTES:

Life Fitness Model 9000 Treadmill
WIRING BLOCK DIAGRAMS

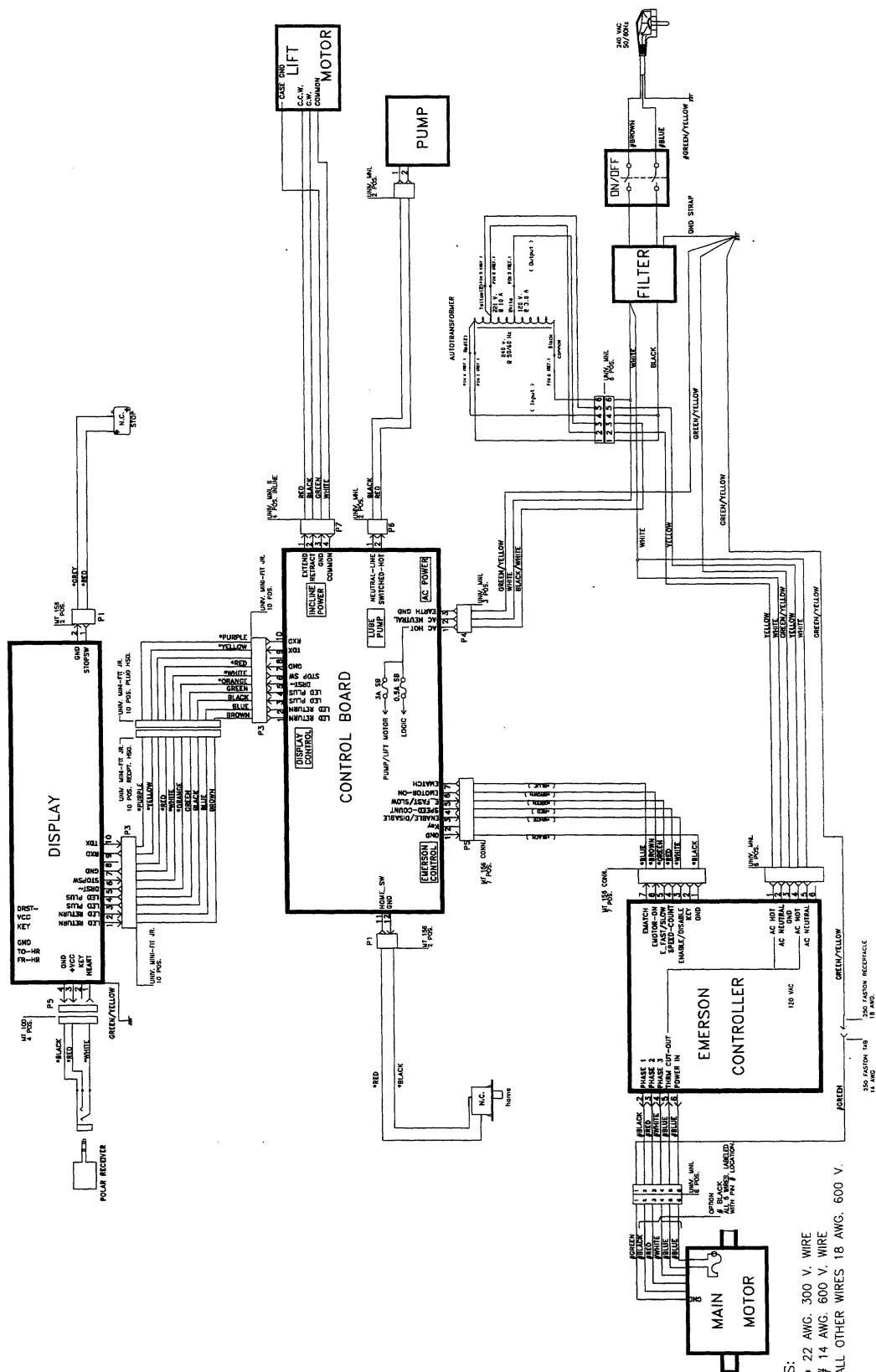
120v Domestic



- NOTES:
- 1.- * 22 AWG. 300 V. WIRE
 - 2.- # 14 AWG. 600 V. WIRE
 - 3.- ALL OTHER WIRES 18 AWG. 600 V.

Life Fitness Model 9000 Treadmill WIRING BLOCK DIAGRAMS

240v International



NOTES:

- 1.- * 22 AWG. 300 V. WIRE
- 2.- # 14 AWG. 600 V. WIRE
- 3.- ALL OTHER WIRES 18 AWG. 600 V.

Life Fitness Model 9000 Treadmill
PREVENTIVE MAINTENANCE TIPS

ITEM	WEEKLY	MONTHLY	QUARTERLY	BI-ANNUAL	ANNUAL
Anti-Static Cords		INSPECT		REPLACE	
Console Mounting Bolts				INSPECT	
Frame	CLEAN			INSPECT	
Striding Belt (Top)	CLEAN (VACUUM)			INSPECT	
Brush				REPLACE	
Deck				INSPECT	
Power Cord		INSPECT			
Display Console	CLEAN	INSPECT			
Handlebar	CLEAN			INSPECT	
Handrail and Handlebar Bolts				INSPECT	
Rear Roller Belt			INSPECT		
Front Roller				INSPECT	
Rear Roller				INSPECT	
Stop Button	INSPECT				
Rear Roller Guard		CLEAN & INSPECT			
V Belt				INSPECT	
Wax Ass'y Container			INSPECT		
Wax System Leaks				INSPECT	
Wax Nozzle		CLEAN & INSPECT			
Wax Refill					REPLACE

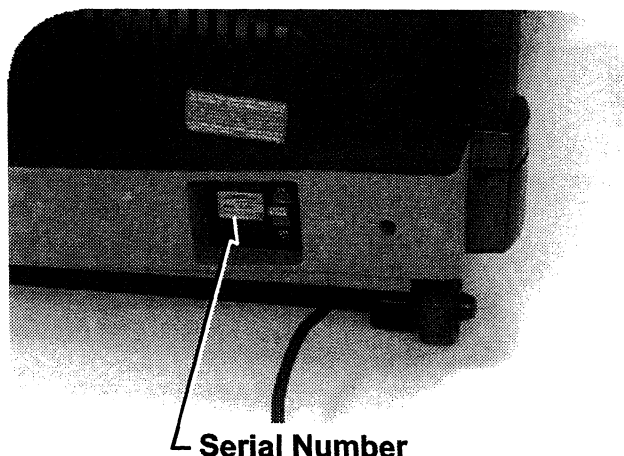
*90 min includes belt and deck removal

Life Fitness Model 9000 Treadmill
ESTIMATED REPAIR TIMES

DESCRIPTION	TIME IN MINS.
MOTOR CONTROLLER	30 MIN
CPU	30 MIN
LINE CORD	30 MIN
ON/OFF SWITCH	30 MIN
WAX FILLER KIT (INS)	15 MIN
WAX PUMP ASSY	30 MIN
DECK SPRING ELASTOMER (8)	60 MIN
DRIVE MOTOR ASSY	30 MIN
LIFT ASSY	30 MIN
DISPLAY ASSY	15 MIN
DRIVE ROLLER BELT	30 MIN
DRIVE MOTOR ASSY BELT	30 MIN
LIMIT SWITCH	30 MIN
TINSEL-INSIDE	15 MIN
REAR END CAP PANEL	15 MIN
STOP SWITCH (ON DISPLAY)	30 MIN
CABLE ASSY FRAME/CPU	30 MIN
CABLE ASSY DISPLAY/FRAME	30 MIN
HANDRAIL	15 MIN
BOTTOM FRONT GUARD	15 MIN
PINCH GUARD (REAR W/TINSEL)	15 MIN
DECK & BELT	60 MIN
FRONT ROLLER	30 MIN
REAR ROLLER	30 MIN
WAX BAG	30 MIN

Life Fitness Model 9000Treadmill
COMMUNICATING BY FAX

If you would like to submit a parts order, or if you need help troubleshooting a problem, we have included, for your convenience, a FAX form on the following page. Simply make a copy (or copies) of the FAX sheet and fill in the necessary information. You may FAX us at any time, 24 hours a day, to either of the numbers shown. A Life Fitness service representative will process your order, or respond to your problem, as quickly as possible.



Serial Number

CUSTOMER SUPPORT SERVICES

☐ PARTS ORDER (IF BOTH)
☐ PRODUCT TROUBLESHOOTING PLEASE INDICATE)

NAME:	CUSTOMER NO:	DATE:
PHONE:	FAX:	CONTACT NAME:

METHOD OF SHIPMENT:

11

1 DAY

11

2 DAY

11

GROUND

PARTS ORDER FORM

ITEM NO.	PART NUMBER	DESCRIPTION	QUANTITY
1			
2			
3			
4			
5			
6			

PRODUCT TROUBLESHOOTING

PRODUCT NAME:	SERIAL NO.
DETAILED DESCRIPTION OF PROBLEM:	
PRODUCT NAME:	SERIAL NO.
DETAILED DESCRIPTION OF PROBLEM:	

TIME RECEIVED:	TIME COMPLETED:	TECHNICIAN NAME:
----------------	-----------------	------------------



CUSTOMER SUPPORT SERVICES CENTER

**10601 Belmont Avenue, Franklin Park, IL 60131 PHONE (800) 351-3737 Toll Free or (708) 451-0036
FAX (800) 216-8893 Toll Free or (708) 288-3702**

NOTES:



M051-00K45-A012

LifeFitness

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M051-00K45-A012

4-98