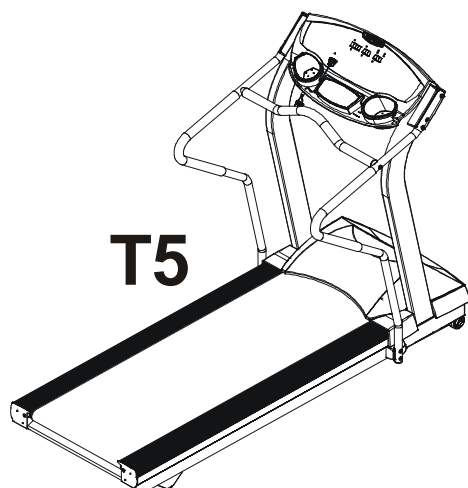
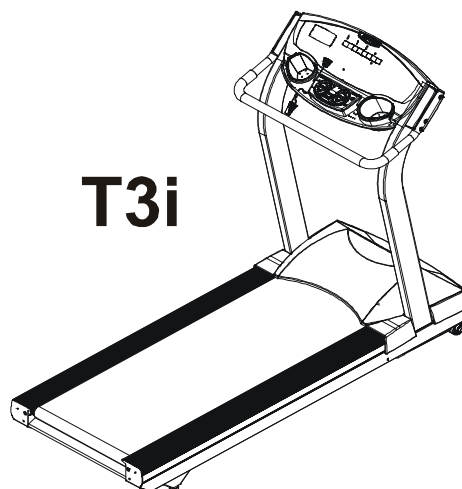
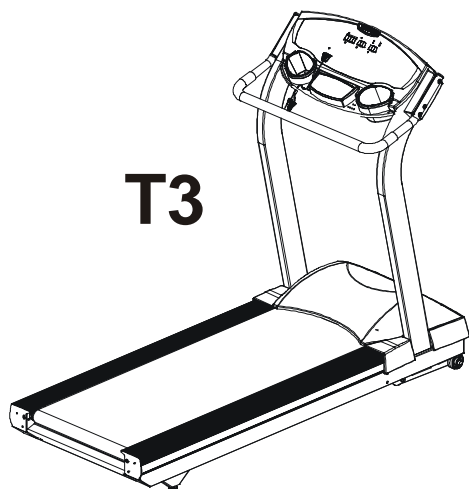


Life Fitness

T-Series Consumer Treadmills



Customer Support Services
SERVICE MANUAL

Life Fitness T-Series Consumer Treadmills

INTRODUCTION

HOW TO USE SERVICE MANUAL AND CONTACT CUSTOMER SUPPORT SERVICES

This service manual is applicable to Treadmill Models T3/T5 and T3i/T5i/T7i. **Note:** Information represents typical configuration and may differ slightly from actual equipment. The Service Manual provides recommendations of safe and efficient approaches to problem situations. *This manual is separated into five sections.*

- INTRODUCTION
- TABLE OF CONTENTS
- Section I
 - ☐ TROUBLESHOOTING GUIDES
- Section II
 - ☐ DIAGNOSTIC MODE
- Section III
 - ☐ "How To..." SERVICE AND REPAIR GUIDES
- Section IV
 - ☐ ELECTRONIC OVERVIEW
 - ☐ WIRING BLOCK DIAGRAMS
- Section V
 - ☐ MISCELLANEOUS INFORMATION

Refer to **TABLE OF CONTENTS** for section topics.

When an operating problem occurs, refer to troubleshooting guides and diagnostic mode to isolate cause . When applicable, guides are listed by problem symptom followed with suggestions of probable cause(s) .

Once source of problem is identified, consult "How To..." guides for recommended repair procedures. "How To..." sub-sections are organized by replaceable part or assembly name. For convenience, sub-section lists recommended "Tools Required" to complete specific function.

A reproducible FAX order claim form is given in COMMUNICATING BY TELEFACSIMILE for convenient ordering of service parts.

To order, contact Life Fitness Customer Support Services.

Via FAX - 24 hrs. /day, 7 days/week.

Via telephone - Monday through Friday from 8:00 AM to 5:00 PM (CST).

Via post - At address cited.

To speed Life Fitness Customer Support Services response to your needs, please provide the following information.

1. Model number
2. Serial number
3. Symptom of problem
4. Part name and number to order (if known)

Before installing part, review "How To..." and follow step by step procedures recommended to install part safely and efficiently. If you have questions or comments please telephone, FAX or, write us. We are:

LIFE FITNESS - CUSTOMER SUPPORT SERVICES

10601 West Belmont

Franklin Park, IL 60131-1548

Telephone – 1-800-328-9714, 1-847-451-0036

FAX – 1-800-216-8893

Life Fitness T-Series Consumer Treadmills

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U.S. Patent Numbers 3,767,195 and 4,358,105.

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SECTION I

TROUBLESHOOTING GUIDE

Life Fitness T-Series Consumer Treadmills
TROUBLESHOOTING GUIDE

Malfunction	Probable Cause	Corrective Action
<p>No Power.</p>	<p>On/Off switch.</p>	<p>Turn the switch to the ON position.</p>
	<p>Insufficient power source.</p>	<p>Plug treadmill into a dedicated circuit.</p> <p>Using a voltmeter, verify power at outlet.</p> <p>Verify/Reset 15 amp circuit breaker.</p> <p>Verify line voltage at P5 on motor controller pins 1 and 2.</p> <p>If yes, verify 8 VDC at P1 pins 7 and 8, and 8VDC at P1 pin 6.</p> <p>If voltage is present, verify continuity and voltage at the console end of the main cable, If 8VDC is present, replace display console PCB.</p> <p>If 8 VDC at P1 pins 7 and 8, and 8VDC at P1 pin 6 of the motor controller is not present, replace motor controller.</p>
	<p>Damaged line cord.</p>	<p>Replace line cord.</p>
	<p>Line cord improperly seated in socket.</p>	<p>Inspect power connection at wall outlet and at machine for proper contact.</p>
<p>No incline.</p>	<p>Home switch disconnected or damaged.</p>	<p>Test in Diagnostics. See Motor Test Mode in Section 2.</p> <p>Verify key pad function in diagnostics.</p> <p>Test lift motor function in diagnostics.</p> <p>Verify P4 Connector, Pin 2 has AC voltage.</p> <p>Verify P4 Connector, Pins 1 and 2 have line current when declining.</p> <p>Verify P4 Connector, Pins 1 and 3 have line current when inclining. If voltages are present, replace lift motor.</p>

Life Fitness T-Series Consumer Treadmills

TROUBLESHOOTING GUIDE

Malfunction	Probable Cause	Corrective Action
Display reads: Start up error/Err1	Belt was commanded to move and the opto has not seen any movement or the belts movement was interrupted prior to it reaching its commanded speed	Verify opto operation in Diagnostics, Motor Test Mode, Section 2. Verify DC voltage at connector P6 pins 1 and 2. Verify that LED 4 on the Motor Controller flashes as the motor moves.
Display reads: Running error/Err2	Belts movement was interrupted or lost opto after reaching its commanded speed.	Check opto connections. Verify opto operations in Diagnostics, Motor Test Mode, Section 2, and that LED4 flashes as motor moves.
Display reads: Belt Moving error/Err3	Belt movement detected prior to receiving a command.	Make sure user is not pushing belt manually. If unit is moving without command, replace the motor controller.
Display reads: Overspeed Error/Err4	Belt movement is exceeding command by 3 Mph.	Verify opto operation in Diagnostics, Motor Test Mode, Section 2. Replace motor controller if actual speed exceeds target speed.
Display reads: FET Stuck On Error/Err5	Driver transistor on the motor controller is detected to be shorted.	Replace The motor controller
Display reads: Rpm Noise Error/Err6	RPM sensor (opto) is erratic (this error is only seen in Motor Test Mode).	Verify opto operation in Diagnostics, Motor Test Mode, Section 2. Replace opto sensor if necessary.
Display reads: M- Checksum error/Err7 Or Motor Comm Error/Err0	Console lost communication with motor controller.	Check connection and continuity on main harness using mutimeter. Replace opto sensor if necessary.
Display reads: M-Unknown Error/Err9	Multiple errors 9-255, only seen on motor test mode.	Exit Diagnostics to view error message and trobleshoot accordingly.
The Striding Belt is traveling beyond the tracking limits.	Striding belt needs to be re-tensioned or tracking needs adjustment.	Refer to belt tensioning or tracking adjustment procedure in operation or service manual.
	Worn striding belt or user pushing belt.	Center striding belt according to belt centering technique. See How To...Adjust And Tension The Striding Belt.

Life Fitness T-Series Consumer Treadmills

TROUBLESHOOTING GUIDE

Malfunction	Probable Cause	Corrective Action
<p>Unit resets randomly or pauses.</p>	<p>Insufficient power source.</p>	<p>Plug treadmill into a dedicated circuit.</p>
	<p>Line cord improperly seated in electrical outlet.</p>	<p>Inspect power connection at electrical outlet and at machine for proper contact.</p>
	<p>Emergency stop magnet not engaged.</p>	<p>Re-engage the emergency stop magnet.</p>
	<p>Loose or damaged telecommunication connections at display console or motor controller.</p>	<p>Disconnect and reconnect telcom and motor controller. Replace telcom if necessary.</p>
	<p>Open ground path.</p>	<p>Using multimeter, check all points for continuity: console pan screws, console mounting screws, handlebar screws, and handrail mounting screws to frame with respect to ground. Ground must be a non-painted surface.</p>
	<p>Display overlay keys are not responding when depressed.</p>	<p>Loose ribbon connection(s).</p>
<p>Worn or defective overlay assembly.</p>		<p>Replace overlay assembly. See How To... Replace Overlay Assembly. See operation in Diagnostic. See Section 2.</p>
<p>Secondary key pad T3i/T5i/T7I not responding</p>		<p>Test the keypad in Diagnostics. See Section 2.</p> <p>1. Inspect ribbon cable connection.</p> <p>2. Remove and inspect that button tabs on module assembly are making contact with membrane switch. If not, replace module. If contact is being made with membrane and key pad is still not responding, replace the membrane.</p>

Life Fitness T-Series Consumer Treadmills

TROUBLESHOOTING GUIDE

Malfunction	Probable Cause	Corrective Action
Striding Belt slips during footfall.	Striding belt slips on front roller during stall test.	Check striding belt & re-tension as necessary. See How...To Adjust Belt Tension.
Maximum speed is reduced.	User is pushing striding belt.	Instruct users not to push striding belt in either direction.
	Striding belt/deck malfunction. The deck laminate worn through or the underside of striding belt glazed over (hard, glossy).	Test in Diagnostics. If amp draw exceeds 13 amps replace belt and deck. See How To...Replace Striding Belt.
	Insufficient power source.	Plug treadmill into a dedicated circuit.
Knocking sound at rear of machine.	Faulty rear roller bearings.	Replace rear roller assembly.
	Wax build up on rear roller.	Run unit for 10 hours to break-in the treadmill.
Knocking sound coming from deck.	Life Springs not positioned correctly and/or loose mounting hardware.	Reposition or tighten life springs.
Rubbing sound from underneath machine.	Foreign objects may be stuck underneath the machine.	Inspect underneath striding belt and machine. Remove any debris or objects that may cause interference with the treadmill.
Squeaking noise.	Drive motor belt may be worn or misaligned.	Replace drive motor belt. See How To... Replace Drive Motor Belt.
	Extrusions may be slipping on metal extrusion clips.	Replace metal clips with plastic clips.
Loud groaning sound heard from front of machine while elevating.	Lift mechanism pivot points or lift screw are dry.	Lubricate pivot points or lift screw with grease.
	Faulty lift motor.	Replace the lift motor. See How To...Replace Lift Motor.
Loud groaning on footfall.	High friction between deck and striding belt.	Test in Diagnostics. If amp draw exceeds 13 amps while running on machine, replace belt and deck. See How To...Replace Striding Belt.

Life Fitness T-Series Consumer Treadmills
TROUBLESHOOTING GUIDE

Malfunction	Probable Cause	Corrective Action
Display reads a continuous heart rate.	RF Interference.	Move location of machine.
No Chest Strap detected (if equipped).	Chest strap sensors not making good contact with body of user.	Adjust chest strap and moisten sensors to make better contact with skin.
	User is out of monitoring range.	Move within 3 ft (1 meter) of receiver
	Loose connection at receiver.	Check connection on receiver.
	Faulty chest strap.	Replace chest strap.
	Faulty receiver.	Verify 5VDC at P3 pin 1. If yes, replace transmitter. If no, replace display console PCB.

Life Fitness T-Series Consumer Treadmills

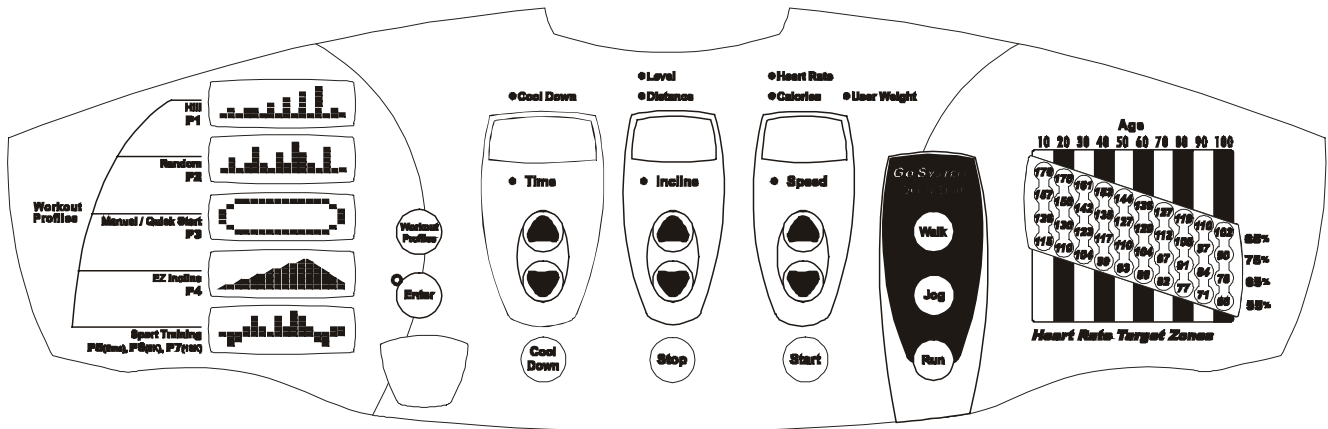
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SECTION II

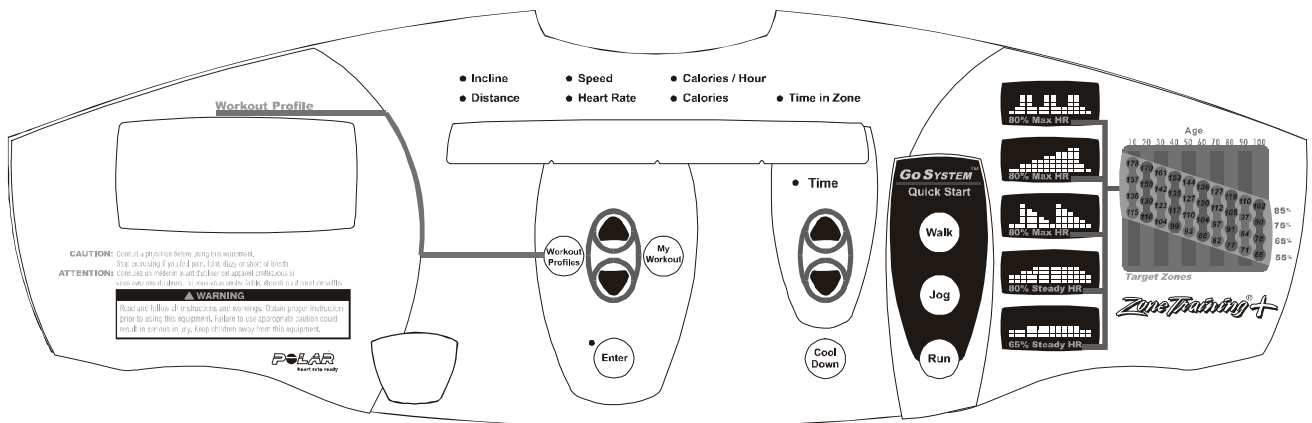
DIAGNOSTICS

Section II

Life Fitness T-Series Consumer Treadmills
DISPLAY CONSOLES



T3/T5



T3i/T5i/T7i

Life Fitness T-Series Consumer Treadmills

DIAGNOSTICS MENU INSTRUCTIONS

ACCESSING DIAGNOSTICS

Press the Stop button twice in a row and then hold down the Quick Start-Walk button or alternatively hold down the Quick Start-Walk button and turn the treadmill ON. The console will automatically jump into the 1st diagnostic state. The T3/5 console the Time LED will be lit to indicate that you are in the 1st state.

HOW TO MOVE AROUND IN DIAGNOSTICS

Use the ENTER button to move forward through the diagnostics states as listed below. Use the STOP button to move backwards.

HOW TO EXIT DIAGNOSTICS

There are two ways to exit diagnostics. You can just turn OFF the treadmill (all settings will be saved). Or you can keep pressing the STOP button to move all the way back to the beginning of diagnostics and then out of diagnostics.

USER MENU STATES

The diagnostic states are as follows:

- 1. Software Version Numbers
- 2. Display Test Mode
- 3. Keypad Test Mode
- 4. Motor Test Mode
- 5. Treadmill Statistics
- 6. Photoshoot Mode

Life Fitness T-Series Consumer Treadmills
DIAGNOSTIC STATES - Continued

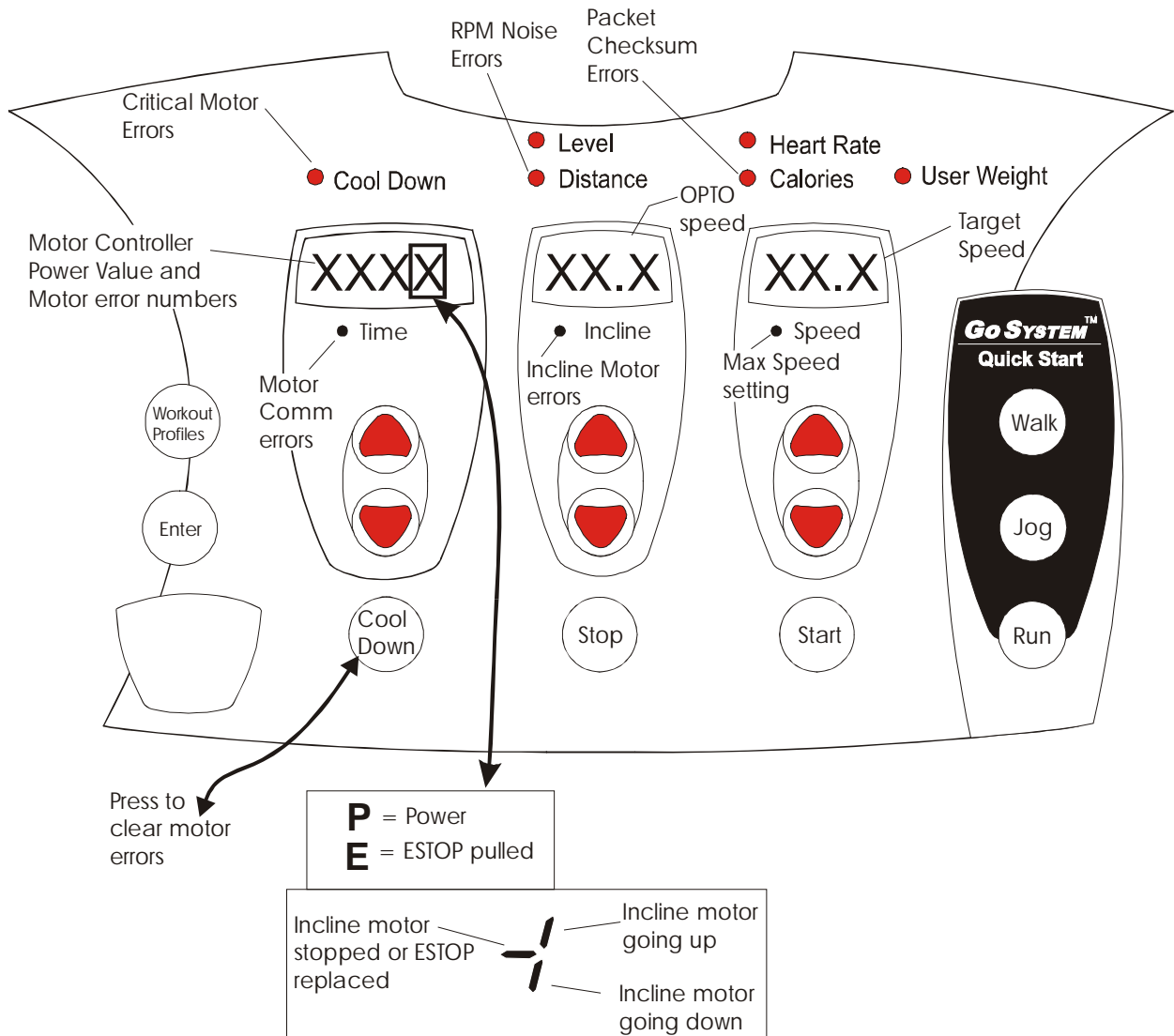
3. KEYPAD TEST MODE - Continued

This state allows you to test the keypad. Anytime you press a key, you will hear a beep, and will see what key you have pressed in the display.

Keypad Test Table -T3/T5	
Button	Display
Workout Profiles	"AAAA AAA AAA" - (no LED's will be lit)
Enter	This will automatically jump to the next diagnostics state
Time Up	"uuuu uu uuu" - (Time LED will light)
Time Down	"dddd ddd ddd" - (Time LED will light)
Cool Down	"CCCC CCC CCC" - (no LED's will be lit)
Incline Up	"uuuu uu uuu" - (Incline LED will light)
Incline Down	"dddd ddd ddd" - (Incline LED will light)
Stop	This will automatically jump to the last diagnostics state
Speed Up	"uuuu uu uuu" - (Speed LED will light)
Speed Down	"dddd ddd ddd" - (Speed LED will light)
Start	"SSSS SSS SSS" - (no LED's will be lit)
Walk	"bbbb bbb bbb" - (no LED's will be lit)
Jog	"cccc ccc ccc" - (no LED's will be lit)
Run	"dddd ddd ddd" - (no LED's will be lit)
Emergency Stop Switch	When pulled "EEEEEEEEEE"
	When replaced "-----"

Life Fitness T-Series Consumer Treadmills
DIAGNOSTIC STATES

4. MOTOR TEST MODE - Models T3/T5 only



This state allows you to test the drive and Incline Motor and get motor controller power usage. The motor can be stopped immediately by pulling the Emergency Stop switch or by pressing the Stop button.

To test the drive motor use the speed arrow keys to command the motor from 0 MPH to the maximum speed set for the units (10 MPH T3/T3i and 12 MPH T5/T5i/T7i). If the unit is configured to 12 MPH the speed LED will be ON and OFF if its configured to 10 MPH.

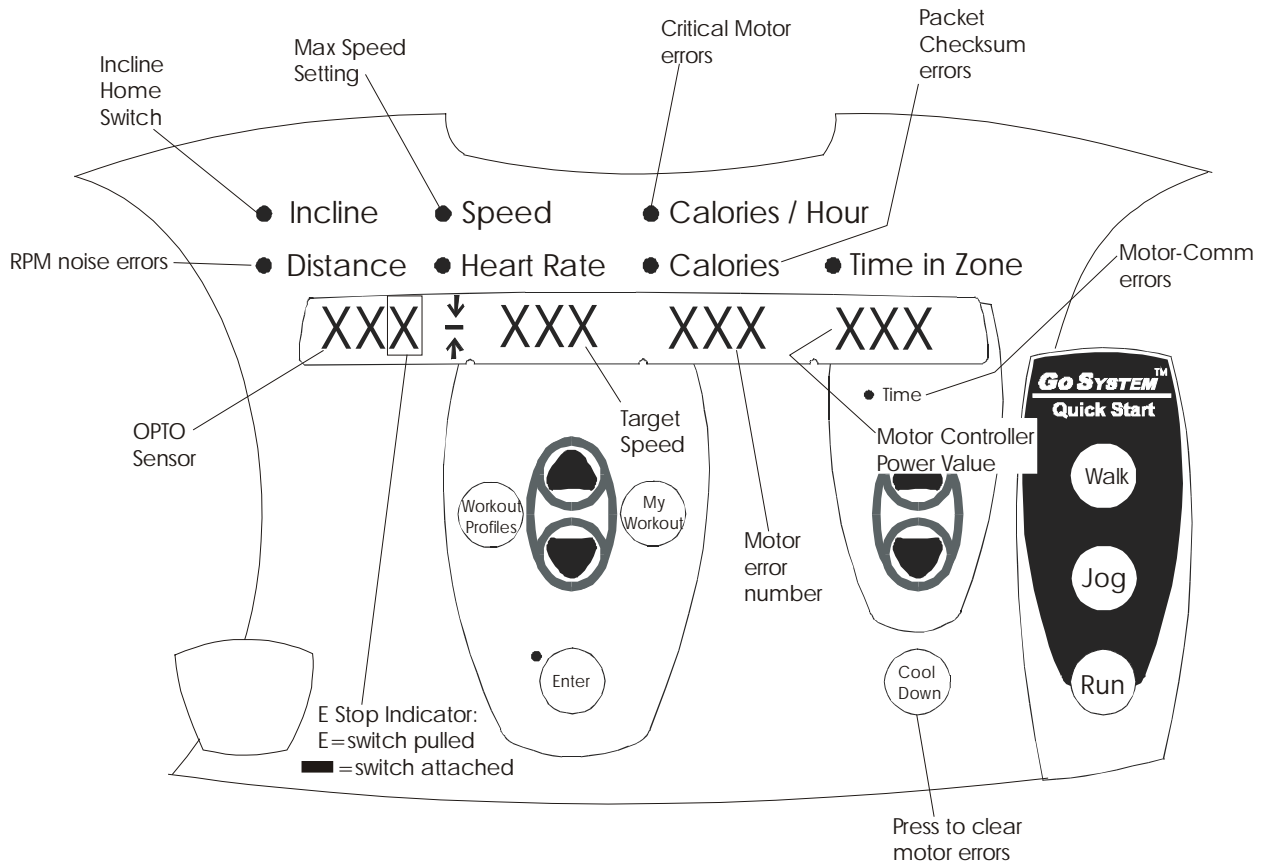
To test the lift motor use Incline Up/Down Keys to drive lift motor. Once either arrow key is selected the lift motor will run non-stop until reaches internal limit switch. This action can be stopped by pressing the arrow key a second time. The Incline LED will be OFF when the unit home switch is activated (0% elevation).

Console T3/T5 - The Speed Window shows the command set speed, the Incline Window shows the target speed (OPTO Sensor), and the Time Window shows the power usage.

The **Cool Down key** allows error messages to be reset.

Life Fitness T-Series Consumer Treadmills
DIAGNOSTIC STATES

4. MOTOR TEST MODE - Models T3i, T5i, T7i only



Section II

This state allows you to test the drive and Incline Motor and get motor controller power usage. The motors can be stopped immediately by pulling the Emergency Stop switch or by pressing the Stop button.

To test the drive motor use the speed arrow keys to command the motor from 0 MPH to the maximum speed set for the units (10 MPH T3/T3i and 12 MPH T5/T5i/T7i). If the unit is configured to 12 MPH the speed LED will be ON and OFF if its configured to 10 MPH.

To test the lift motor use Incline Up/Down Keys to drive lift motor. Once either arrow key is selected the lift motor will run non-stop until reaches internal limit switch. This action can be stopped by pressing the arrow key a second time. The Incline LED will be OFF when the unit home switch is activated (0% elevation).

Console T3i/T5i/T7i - The Speed/HR window shows the command set speed, the Incline/Distance window shows the target speed (OPTO Sensor), and the Calories/Hours window shows the power usage.

The **Cool Down key** allows error messages to be reset.

Life Fitness T-Series Consumer Treadmills

DIAGNOSTIC STATES - Continued

5. TREADMILL STATISTICS

The following state is applicable for all versions and displays the currently accumulated statistics. Use the Up arrow to move forward through the statistics and use the Down arrow to move backwards. Below and on the next page are lists of what currently is being accumulated. If any data item is over the listed maximum you will see dashes in the display “---”.

NOTE: For T3/T5 USE SPEED ARROW KEYS TO SCROLL FORWARD AND BACKWARDS.

Treadmill Statistics –T7i	
Display Item	Data Item
T-Time = xxxx:xx	Total accumulated workout time - displayed in hours:minutes format (up to 9999:59 = 9999 hours and 59 minutes)
T-E-Time = xxxx:xx	Total accumulated lift time - same format as above
T-Dist = xxxx.xx	Total accumulated distance - displayed in miles:100 th of miles format (up to 9999.99 = 9999 miles and 0.99 of a mile)
Q Starts = xxxx	Number of times this program was selected - (up to 9999)
Fat Burns = xxxx	Number of times this program was selected - (up to 9999)
Cardios = xxxx	Number of times this program was selected - (up to 9999)
Hill prgs = xxxx	Number of times this program was selected - (up to 9999)
Randoms = xxxx	Number of times this program was selected - (up to 9999)
Manuals = xxxx	Number of times this program was selected - (up to 9999)
EZ Incln = xxxx	Number of times this program was selected - (up to 9999)
HR Hill = xxxx	Number of times this program was selected - (up to 9999)
HR Intrvl = xxxx	Number of times this program was selected - (up to 9999)
HR Extreme = xxxx	Number of times this program was selected - (up to 9999)
Sprt Train	Number of times this program was selected - (up to 9999)
Sprt 5k	Number of times this program was selected - (up to 9999)
Sprt 10k	Number of times this program was selected - (up to 9999)
My Workouts	Number of times this program was selected - (up to 9999)
30 Min Walk = xxxx	Number of times this program was selected - (up to 9999)
3-Mile Jog = xxxx	Number of times this program was selected - (up to 9999)
45-Min xT = xxxx	Number of times this program was selected - (up to 9999)
Custom = xxxx	Number of times this program was selected - (up to 9999)

Life Fitness T-Series Consumer Treadmills
DIAGNOSTIC STATES - Continued

5. TREADMILL STATISTICS – Continued

Treadmill Statistics -T3i/5i	
Display Item	Data Item
T-Time = xxxx:xx	Total accumulated workout time - displayed in hours:minutes format (up to 9999:59 = 9999 hours and 59 minutes)
T-E-Time = xxxx:xx	Total accumulated lift time - same format as above
T-Dist = xxxx.xx	Total accumulated distance - displayed in miles:100 th of miles format (up to 9999.99 = 9999 miles and 0.99 of a mile)
Q Starts = xxxx	Number of times this program was selected - (up to 9999)
Fat Burns = xxxx	Number of times this program was selected - (up to 9999)
Cardios = xxxx	Number of times this program was selected - (up to 9999)
Hill prgs = xxxx	Number of times this program was selected - (up to 9999)
Randoms = xxxx	Number of times this program was selected - (up to 9999)
Manuals = xxxx	Number of times this program was selected - (up to 9999)
EZ Incline = xxxx	Number of times this program was selected - (up to 9999)
HR Hill = xxxx	Number of times this program was selected - (up to 9999)
HR Interval = xxxx	Number of times this program was selected - (up to 9999)
HR Extreme = xxxx	Number of times this program was selected - (up to 9999)
Sprt Train = xxxx	Number of times this program was selected - (up to 9999)
Sprt 5K = xxxx	Number of times this program was selected - (up to 9999)
Sprt 10K = xxxx	Number of times this program was selected - (up to 9999)
My Workouts = xxxx	Number of times this program was selected - (up to 9999)

Section II

Treadmill Statistics -T3/T5	
Display Item	Data Item
xx:xx --- 000	Total accumulated workout time - displayed in hours:minutes format up to 99:59 (99 hours 59 minutes). At over 100 hours format changes to "xxxx.xx000" (9999 .59 = up to 9999 hours and 59 minutes).
xx:xx --- 001	Total accumulated lift time - same format as above
xx.xx --- 002	Total accumulated distance - displayed in miles:100 th of miles format (up to 9999.99 = 9999 miles and 0.99 of a mile)
xxxx --- 003	Number of times "Q Starts" was selected - (up to 9999)
xxxx --- 004	Number of times "Fat Burns" was selected - (up to 9999)
xxxx --- 005	Number of times "Cardio" was selected - (up to 9999)
xxxx --- 006	Number of times "Hill" was selected - (up to 9999)
xxxx --- 007	Number of times "Random" was selected - (up to 9999)
xxxx --- 008	Number of times "Manuals" was selected - (up to 9999)
xxxx --- 009	Number of times "Smoothies" was selected - (up to 9999)
xxxx --- 010	Number of times "HR Hill" was selected - (up to 9999)
xxxx --- 011	Number of times "HR X-Train" was selected - (up to 9999)
xxxx --- 012	Number of times "Burst program" was selected - (up to 9999)
xxxx --- 013	Number of times "Real" was selected - (up to 9999)
xxxx --- 014	Number of times "Real 5K" was selected - (up to 9999)
xxxx --- 015	Number of times "Real 10K" was selected - (up to 9999)
xxxx --- 016	Number of times "User" was selected - (up to 9999)

6. PHOTOSHOOT MODE

This state places the Consoles display into 'Photoshoot' mode. This allows the marketing group to photograph the unit without having any of the displays changed.

Life Fitness T-Series Consumer Treadmills

USER MENU INSTRUCTIONS

ACCESSING THE USERS MENU

Press the Stop button twice in a row and then hold down the Enter button. You can alternatively hold down the Enter button and turn the treadmill on. The Console will automatically jump into the 1st User Menu State. The Time LED will light to indicate that you are in the 1st state on the T3 and T5 Consoles.

HOW TO MOVE AROUND IN THE USERS MENU

Use the Enter button to move forward through the User Menu States listed above. Use the Stop button to move backwards. Once you are in the last state you must move backwards to get to the other states.

HOW TO EXIT THE USERS MENU

There are two ways to exit the User Menu. You can just turn off the treadmill (all setting will be saved). Or you can keep pressing the Stop button to move all the way back to the beginning of the User Menu and then out of the User Menu.

USER MENU STATES

There are three(3) User Menu States. They are:

- 1. User Statistics (T3i/T5i/T7i only)
- 2. Unit Settings
- 3. Software Version Numbers

Life Fitness T-Series Consumer Treadmills
USER MENU STATES – User Statistics

USER STATISTICS (T3i/T5i/T7i ONLY)

This state displays the currently accumulated statistics for up to 4 different users. Select a user using My Workout key and then press the Enter key. Use the Up/Down arrow keys to move through the statistics. Below is a list of what will be displayed. If any data exceeds listed dashes will be displayed “----”. These statistics can be cleared to zero by pressing the Speed Up arrow. The message "Press Speed Down Arrow Key to Clear Unit Stats" will be displayed. At this time pressing the Speed Down arrow key will clear the statics. The message "Unit Stats Clear" will appear in the display. If you press any other key after pressing the Speed Up arrow, you'll cancel the clearing of the stats and you must re-activate the clearing process by pressing the Speed Up arrow key again.

User Statistics	
Display Item	Data Item
Miles	Total accumulated distance up to 9999.99 miles.
Calories	Total accumulated workout calories.
Time	Total accumulated workout time - displayed in hours:minutes format (up to 9999:59 = 9999 hours and 59 minutes)

UNIT SETTINGS

There are currently 3 settings that can be adjusted and saved. Any adjustments are automatically saved. You can revert a setting back to its default value by pressing the Cool Down button.

In the table below, cycle through the settings using the Up/Down arrow keys. Use the Time Arrows to adjust the settings.

Unit Settings T3i/T5i/T7i	
Display Item	Setting Notes
Pause Time = xx	This item sets the maximum time that pause will last. It ranges from 1 to 99 minutes.
Sleep Time = xx	This item sets the time it takes before 'Sleep Mode' is entered. Its ranges if from 1 to 99 minutes or 'OFF'.
Units = English / Metric	This item sets what units the weight, speed, and distance will be displayed in. It can be set for 'English Units' or 'Metric Units.'

In the table below, cycle through the settings using the Time arrow keys. Use the Incline arrow keys to adjust the settings.

Unit Settings -T3/T5	
Display Item	Setting Notes
PAUS xx	This item sets the maximum time that pause will last. It ranges from 1 to 99 minutes.
SLEP xx	This item sets the time it takes before 'Sleep Mode' is entered. Its ranges if from 1 to 99 minutes or 'OFF'.
UnS x En	This item sets what units the weight, speed, and distance will be displayed in. It can be set for 'English Units' or 'Metric Units.' (Uns = 'Units') and (0 = En = 'English') and (1 = m = 'Metric').
FL xxx	Sets whether or not the flying circles are active during Attract mode. Either the words ON or OFF will appear in the Display.

SOFTWARE VERSION NUMBERS (T3i/T5i/T7i only)

This state shows the current Software Version for the Console, Motor Controller, and Software Part Number. Use the up/down arrow keys. Use these keys to toggle between the console software version and the motor controller version. The Console software version number is displayed as “CONSOLE VER=PXX.X”. The motor controller software version number is displayed “MOTOR VER=PXX.X”

Life Fitness T-Series Consumer Treadmills

NOTES:

SECTION III

HOW TO...

SERVICE AND REPAIR GUIDE

Life Fitness T-Series Consumer Treadmills

How To... Replace The Striding Belt and Deck

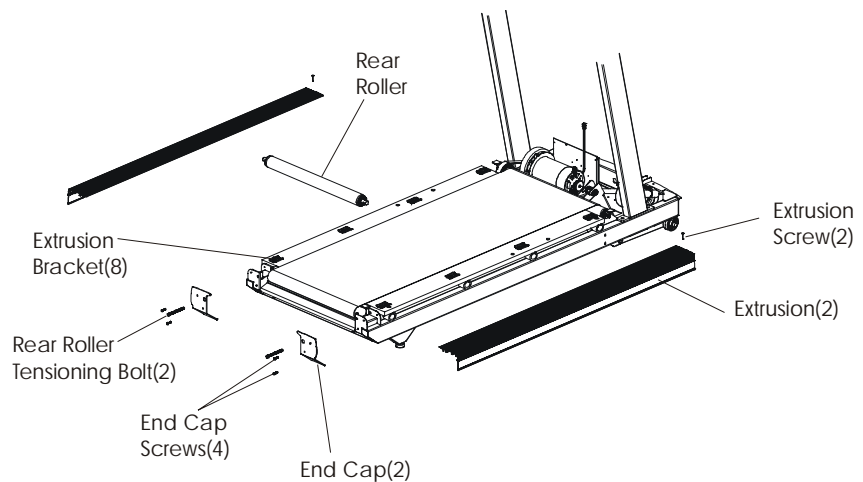
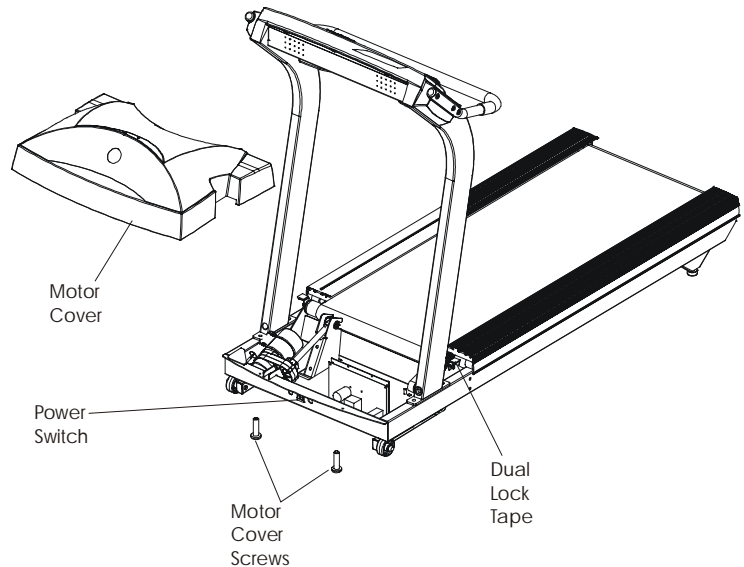
Tools Required: Hex key wrench set, socket and ratchet set, Phillips screwdriver, Torx wrench set, tape measure, and open end wrench set

REMOVAL

1. At the power switch, turn OFF the unit, then unplug the line cord at the wall outlet.
2. Remove the motor cover screws(2) under the front of the motor cover, then lift the rear portion of the motor cover from the dual lock tape.
3. Remove the left and right end caps by removing mounting screws(2) from each end cap.
4. Remove the mounting screw at the front of the left and one at right front extrusion. Slide each extrusion back off the extrusion mounting brackets(8).
5. Remove extrusion brackets(8) and screws(16) from the deck and set aside to be remounted on the new deck.

NOTE: Before removing the rear roller, scribe an "L" (left) and an "R" (right) on the ends of the roller shaft. This will ensure that the roller bearings maintain same direction wear pattern. Mark the position of the belt tensioning bolts for later reference.

6. Remove rear roller tensioning bolts.
7. Remove the rear roller.



Life Fitness T-Series Consumer Treadmills

How To... Replace The Striding Belt and Deck

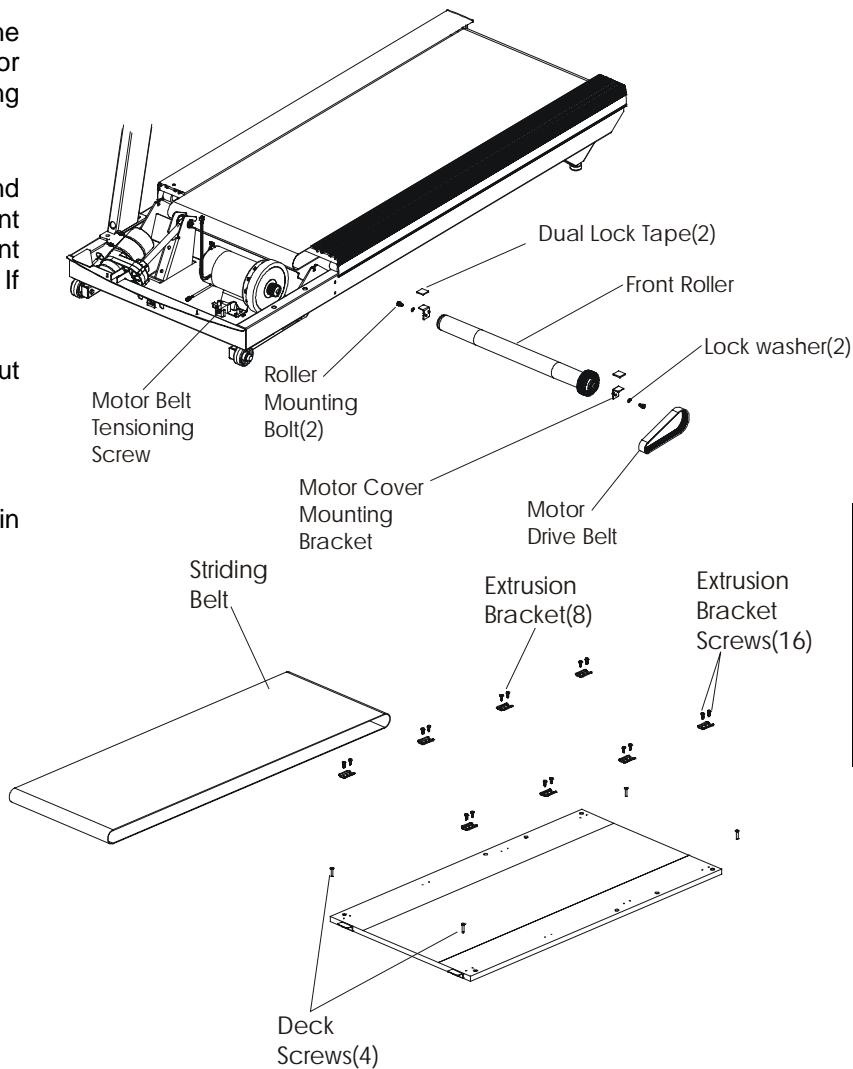
Tools Required: Hex key wrench set, socket and ratchet set, Phillips screwdriver, Torx wrench set, tape measure, and open end wrench set

REMOVAL - Continued

8. Loosen the motor drive belt tension on the front roller by loosening the drive motor mounting nuts then turn the tensioning screw out to loosen the motor belt.
9. Remove bolts(2), lock washers(2), and motor cover brackets(2) from the front roller mounting brackets, then lift the front roller out from the striding belt. If necessary, remove the motor drive belt.
10. Remove the deck screws(4) and lift out the deck.
11. Remove the striding belt and discard.
12. Install new striding belt and deck in

reverse order. Make sure to reinstall extrusion brackets on the new deck. Retension the motor drive belt to no more than 1/4" deflection. Do not overtighten belt.

13. Proceed to the following page for proper belt stretching and belt tracking adjustment.



Section III

Life Fitness T-Series Consumer Treadmills

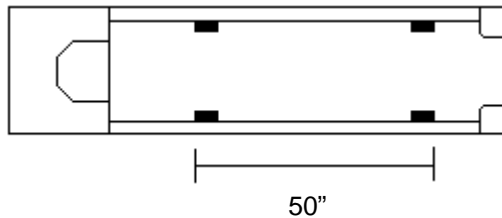
How To... Replace The Striding Belt and Deck - Continued

Tools Required: Hex key wrench set, socket and ratchet set, and Phillips screwdriver, Torx wrench set, tape measure, and open end wrench set

INSTALLATION

Install the deck and striding belt in the reverse order except as follows:

1. Center the STRIDE BELT between the FRONT and REAR ROLLERS. Tighten the BELT TENSIONING BOLTS up to the location marks made prior to removal, or if not marked, until the center span of the belt is taut between rollers.
2. After installing new STRIDING BELT, but prior to tensioning, place two pieces of tape 50" inches apart on **BOTH** the right and left edges of the STRIDING BELT.



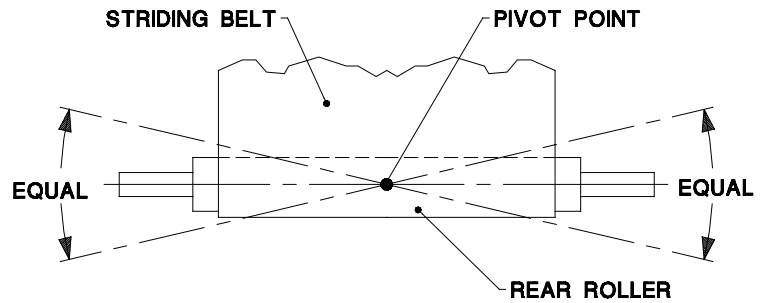
3. Alternately tighten the two tensioning bolts 1/4 turn clockwise each until the distance between the tape is 50.25" which is the equivalent of a quarter inch or .55% stretch.
4. Adjust the Tracking. See How To...Adjust Striding Belt Tracking in this section.

Life Fitness T-Series Consumer Treadmills

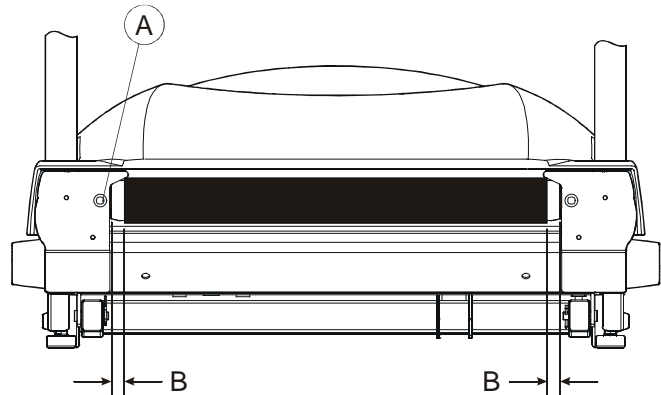
How To... Adjust Striding Belt Tracking

Tools Required: Hex key wrench set

IMPORTANT: It is **CRITICAL** that the treadmill be correctly leveled prior to any tracking adjustments. An unstable unit can cause Striding Belt misalignment. To level and stabilize the unit, refer to instructions on “How To...Replace The Leveler Assembly” in this section.



1. After the treadmill has been installed and leveled, the belt must be checked to confirm proper tracking. First, plug the power cord into an appropriate outlet and turn the treadmill ON.
2. Press the GO “Walk” System Quick Start button then increase speed to 4.0 mph (6.4 kph) motor speed using the UP Arrow.
3. If the STRIDING BELT has moved to the **right**, turn the right TENSION BOLT 1/4 turn clockwise and the left TENSION BOLT 1/4 turn counterclockwise 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 clockwise and the right TENSION BOLT 1/4 turn counterclockwise to start the STRIDING BELT tracking back to the center of the REAR ROLLER.
4. Repeat this adjustment until the striding belt appears centered. The belt should be equal distance (B) on both sides of the rear roller.
5. Allow the unit to operate for several minutes to see that the belt remains centered.
6. T5/T5I with serial numbers above 1699620xx and all T7I treadmills have an adjustable front roller. This has one TENSION BOLT on the right side. Only adjust the TENSION BOLT if the belt can not be aligned by the rear roller. If the belt is skewed to the right, turn the TENSION BOLT ¼ turn clockwise to move the belt to the left. Turn the TENSION BOLT ¼ turn counterclockwise to move belt to the right.



Section III

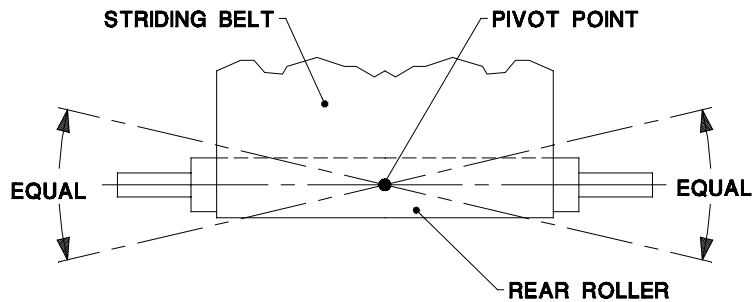
NOTE: During the adjustment above, **DO NOT** exceed one full turn of the adjusting screws in either direction.

Life Fitness T-Series Consumer Treadmills

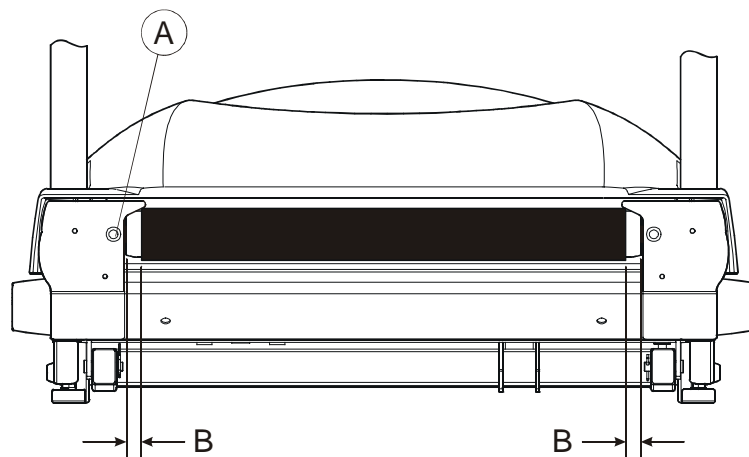
HOW TO... How To Adjust Striding Belt Tension

Tools Required: Hex key wrench set

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



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.
4. Stop the treadmill and alternately turn the STRIDING BELT TENSIONING BOLTS (A) 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!**



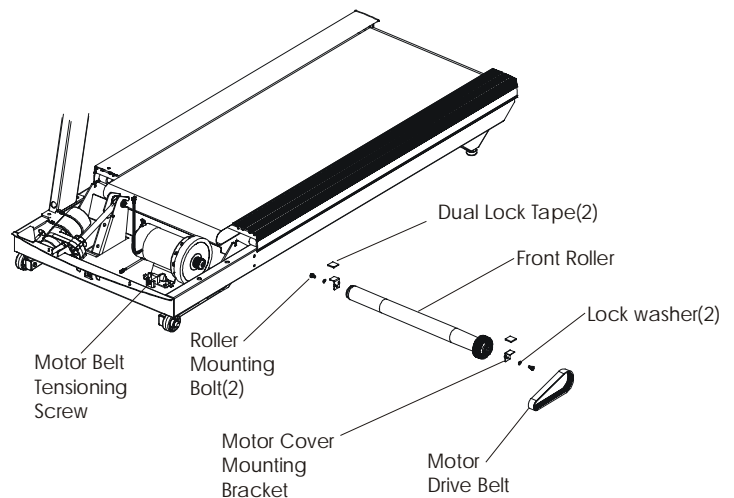
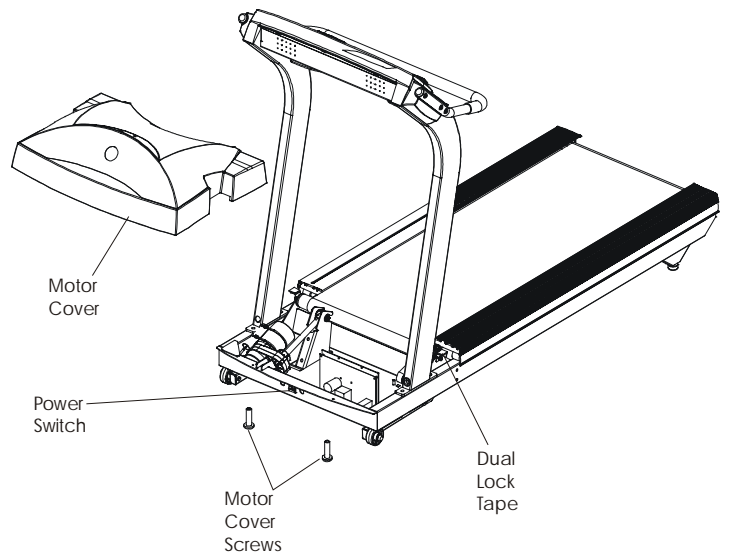
Life Fitness T-Series Consumer Treadmills

How To... Replace The Motor Drive Belt

Tools Required: Hex key wrench set, socket and ratchet set, Phillips screwdriver, open end wrench set

REMOVAL AND INSTALLATION

1. At the power switch, turn OFF the unit, then unplug the line cord at the wall outlet.
2. Remove the motor cover screws(2) under the front of the motor cover, then at the rear of the cover, lift off the motor cover from the dual lock tape.
3. Loosen the four mounting nuts securing the motor to the bottom of the frame.
4. Loosen the motor belt tensioning screw to move the motor mounting plate in the slotted holes towards the rear roller to relieve belt tension.
5. Remove the motor drive belt from the end of the motor drive pulley.
6. Loosen the rear roller tensioning bolts.
7. Remove the front roller mounting bolts and motor cover brackets(2).
8. Lift the front roller out of its frame mount, slip off the motor drive belt from the pulley, and discard the belt.
9. Install new motor drive belt in reverse order. Tension the belt to 1/4" deflection.
10. Retension the striding belt and reset its tracking. Refer back to striding belt tension and tracking procedure in this section.



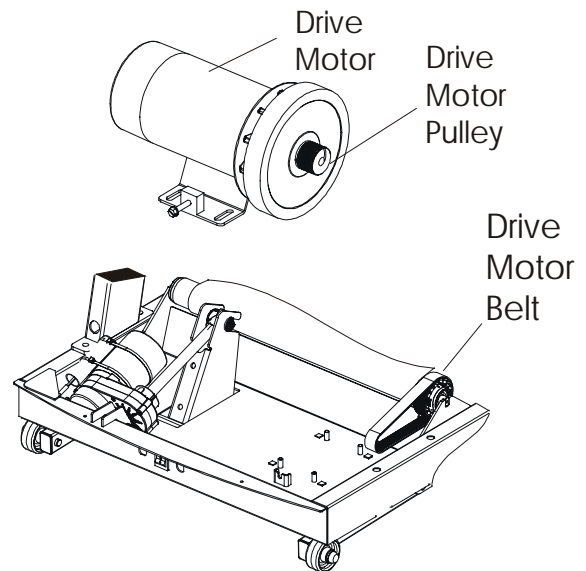
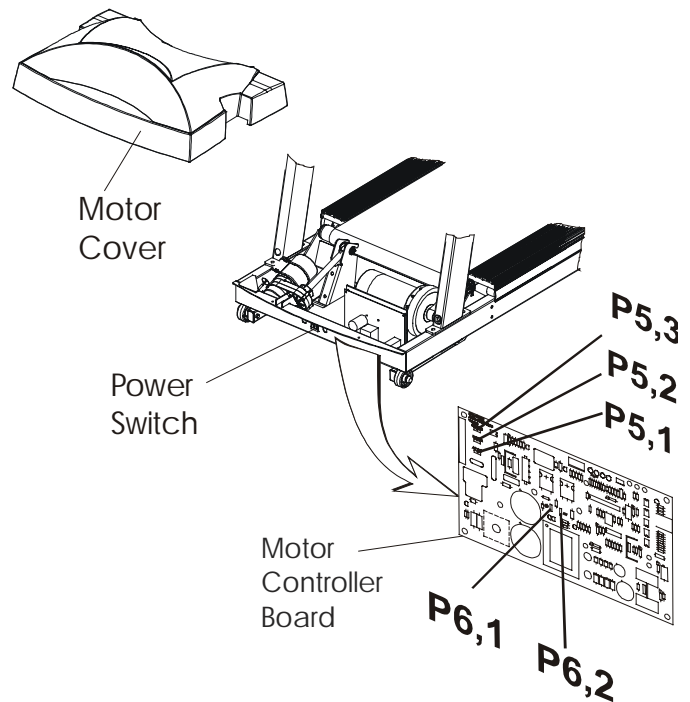
Life Fitness T-Series Consumer Treadmills

How To... Replace The Drive Motor

Tools Required: Socket and ratchet set, Phillips screwdriver, open end wrench set

REMOVAL AND INSTALLATION

1. At the power switch, turn OFF the unit, then unplug the line cord at the wall outlet.
2. Remove the motor cover screws(2) under the front of the motor cover, then at the rear of the cover, lift off the motor cover from the dual lock tape.
3. Disconnect P3 connector at the back of the motor.
4. Disconnect P6,1 (red) and P6,2 (black) power supply connectors at the circuit board.
5. Disconnect P5,1 and bottom lead on circuit breaker.
6. Loosen the motor mounting nuts then the motor belt tensioning screw. Move the motor mounting plate towards the rear roller to relieve belt tension.
7. Remove the drive motor belt off the end of the pulley.
8. Remove four(4) motor mounting nuts and lift out the motor.
9. Install new motor drive belt in reverse order and tension to 1/4" deflection.



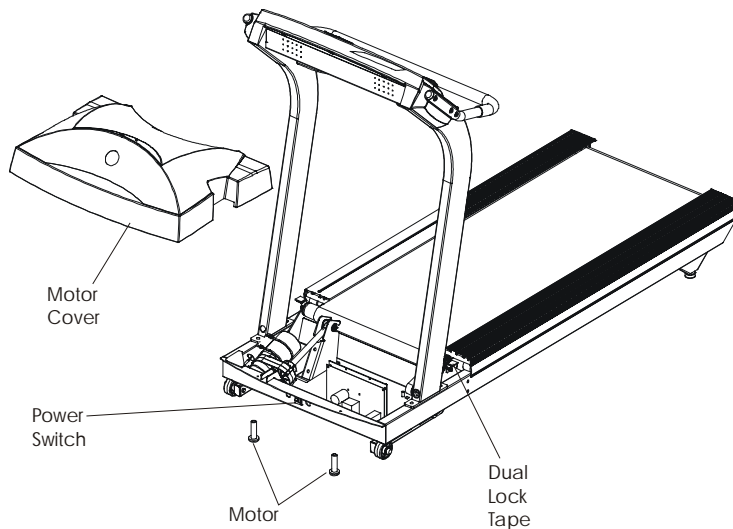
Life Fitness T-Series Consumer Treadmills

How To... Replace The Front Roller

Tools Required: Hex key wrench set, socket and ratchet set, Phillips screwdriver, open end wrench set

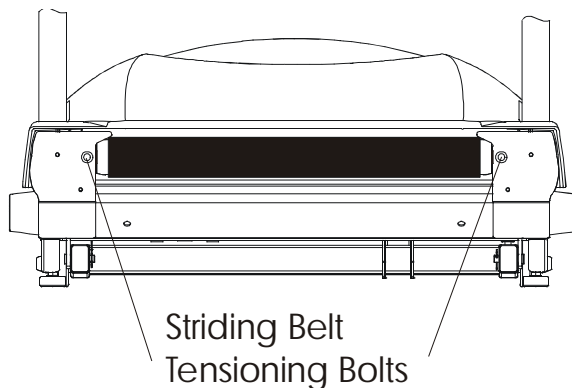
REMOVAL AND INSTALLATION

1. At the power switch, turn OFF the unit, then unplug the line cord at the wall outlet.
2. Remove the motor cover screws(2) under the front of the motor cover, then at the rear of the cover, lift off the motor cover from the dual lock tape.

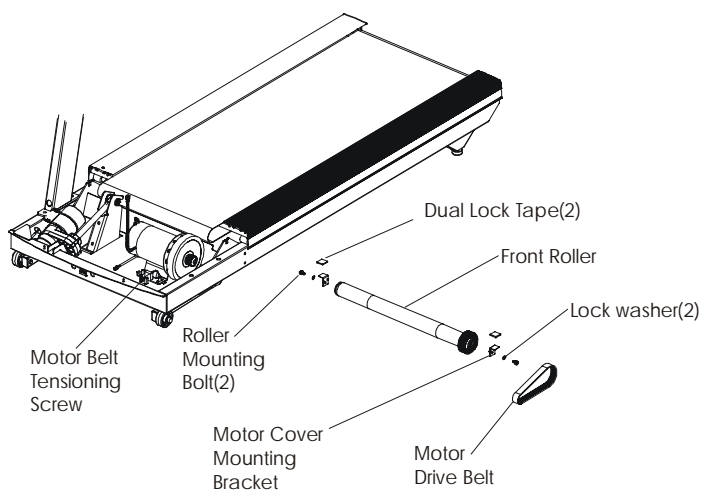


3. Loosen the rear roller tensioning bolts to slacken the striding belt.

4. Loosen the motor mounting nuts on the motor mount support plate.
5. Turn the motor belt tensioning screw counterclockwise to move the motor mounting plate towards the rear roller to relieve belt tension.



6. Remove the front roller mounting bolts(2), lock washers(2), motor cover mounting brackets(2).
7. Lift out the roller from the striding belt and remove the motor drive belt.
8. Install new front roller in reverse order making sure to properly adjust the motor drive belt (1/4" deflection) and striding belt.



Section III

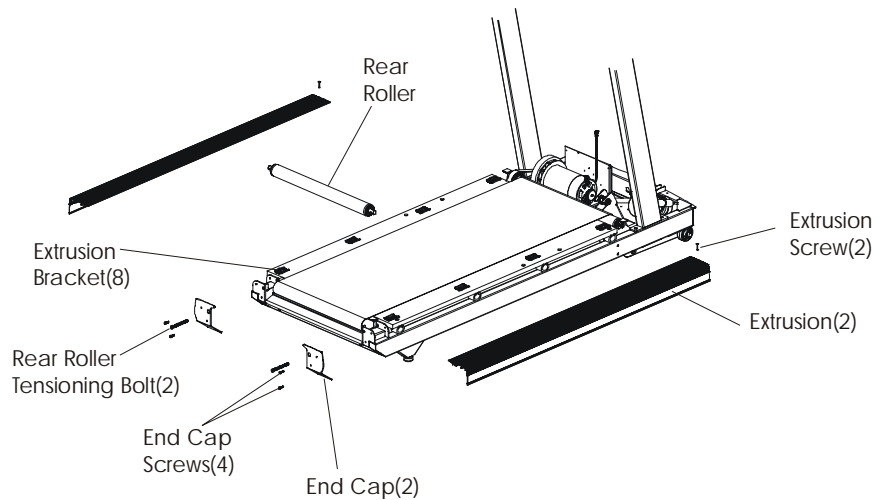
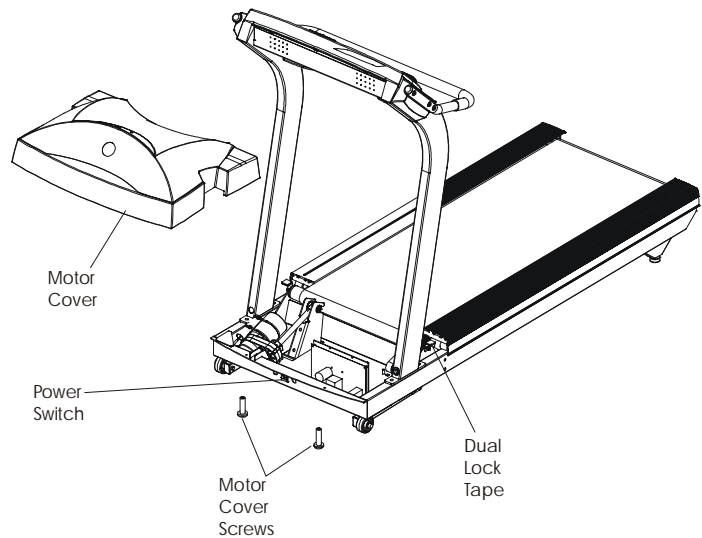
Life Fitness T-Series Consumer Treadmills

How To... Replace The Rear Roller

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

REMOVAL AND INSTALLATION

1. At the power switch, turn OFF the unit, then unplug the line cord at the wall outlet.
2. Remove the motor cover screws(2) under the front of the motor cover, then at the rear of the cover, lift off the motor cover from the dual lock tape.
3. Remove the end caps.
4. Remove the rear roller tensioning bolts.
5. Remove the mounting screw at the front of the left extrusion and one at the right front extrusion. Slide each extrusion back off the extrusion mounting brackets(8).
6. Remove the deck screws(4).
7. Remove the rear roller mounting bolts.
8. If necessary, raise up the deck a little to clear the rear roller guards(2), then lift the rear roller out from the striding belt.
9. Install new rear roller in reverse order of removal. Make sure to adjust the striding belt tension. Refer back to belt adjustment in this section.



NOTE: Before installing a new rear roller, scribe an "L" (left) and an "R" (right) on the ends of the roller shaft. If the rear roller is removed thereafter, these marks should be used for correct roller positioning to ensure that the rear roller bearings maintain same direction wear pattern. Mark the position of the belt tensioning bolts for later reference.

Life Fitness T-Series Consumer Treadmills

How To... Replace The Lifespring Absorbers

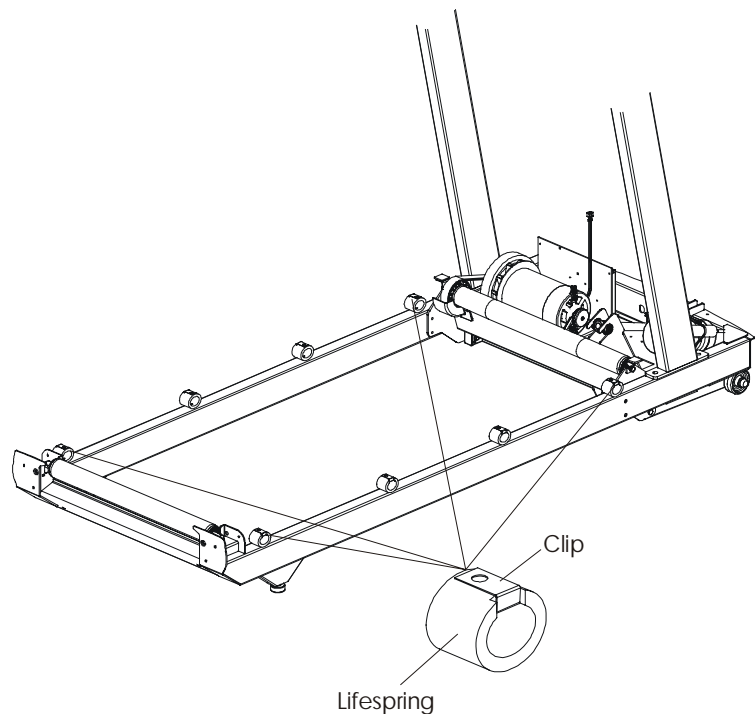
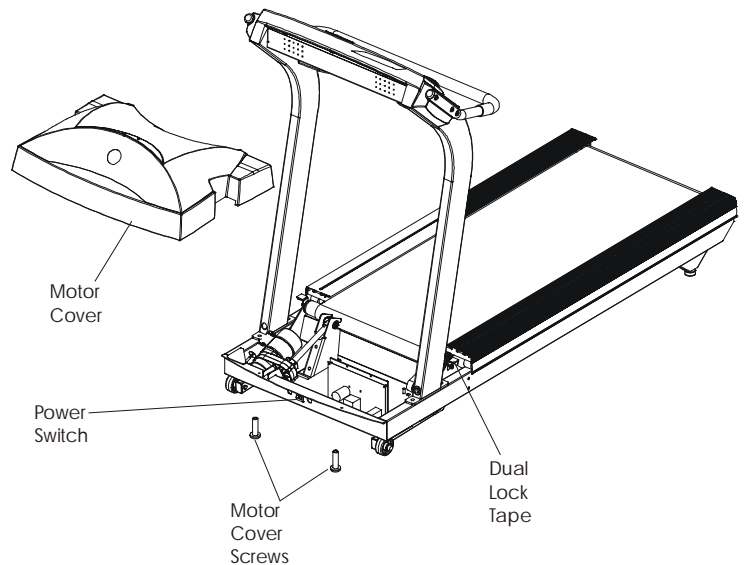
Tools Required: Hex key wrench set, socket and ratchet set, and Phillips screwdriver

REMOVAL AND INSTALLATION

1. At the power switch, turn OFF the unit, then unplug the line cord at the wall outlet.
2. Remove the motor cover screws(2) under the front of the motor cover, then at the rear of the cover, lift off the motor cover from the dual lock tape.
3. Remove the left and right end caps by removing mounting screws(2) at the back of the unit.
4. Remove the mounting screw at the front of the left extrusion and one at the right front extrusion. Slide each extrusion back off the extrusion mounting brackets(8).
5. Loosen the rear roller tensioning bolts to slacken the striding belt. Mark the bolt positions to return the belt to the same tension.
6. Remove deck screws(4) at each corner of the deck, then lift the deck out of the striding belt being careful of the waxed surface.
7. Remove lifesprings and clips from the frame. Save the clips for the new lifesprings.
8. Install new lifesprings in reverse order. Use original clips on lifesprings.

NOTE: Position the lifespring notch as shown.

9. Retension and center the striding belt as described in the beginning of this section.



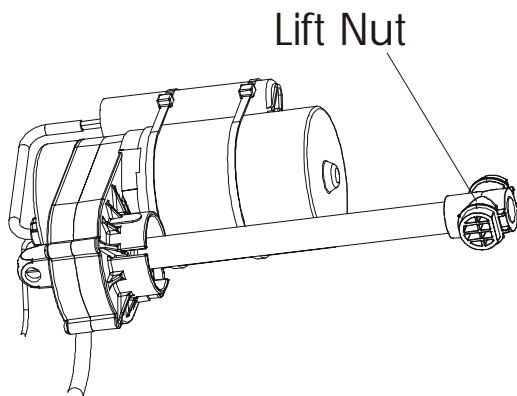
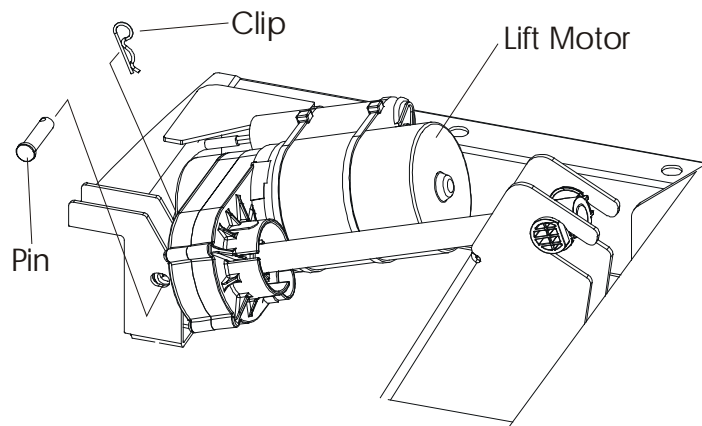
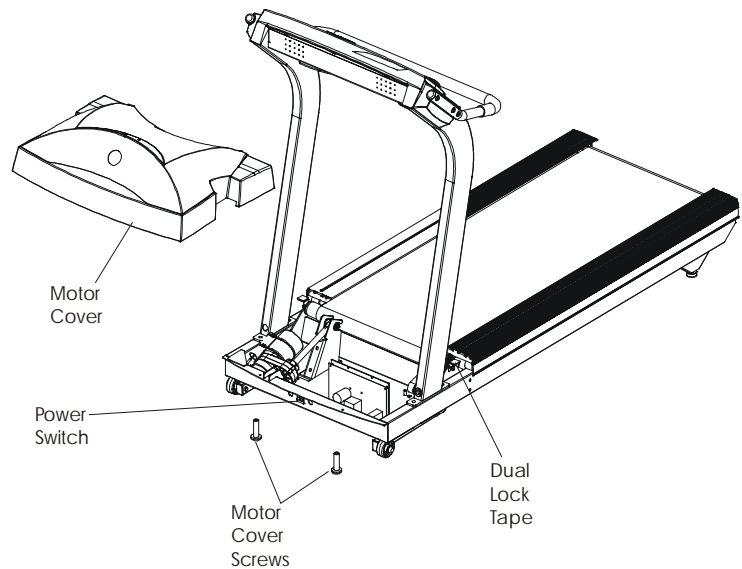
Life Fitness T-Series Consumer Treadmills

How To... Replace The Lift Motor

Tools Required: Phillips screwdriver, socket set, and pliers

REMOVAL AND INSTALLATION

1. At the power switch, turn OFF the unit, then unplug the line cord at the wall outlet.
2. Remove motor cover screws(2) under the front of the motor cover, then lift the rear portion of the motor cover from the dual lock tape.
3. Disconnect P4 connector and the pin-4 connector at P7 on the motor controller board.
4. Disconnect the lift motor ground at the bottom of the frame.
5. Remove the lift motor pin, washer, spring, and clip.
6. Remove the lift motor by rotating it up and around on the axis of the lift nut, so that the slotted end of the lift nut aligns with the slots in the retainer bracket.
7. Install new lift motor in reverse order. Make sure to install the lift nut flush to the end of the treaded shaft.



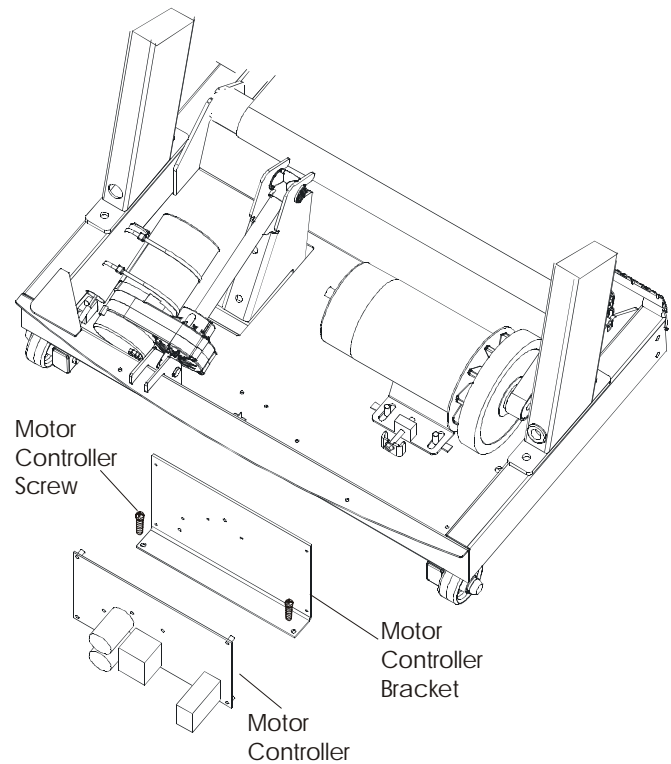
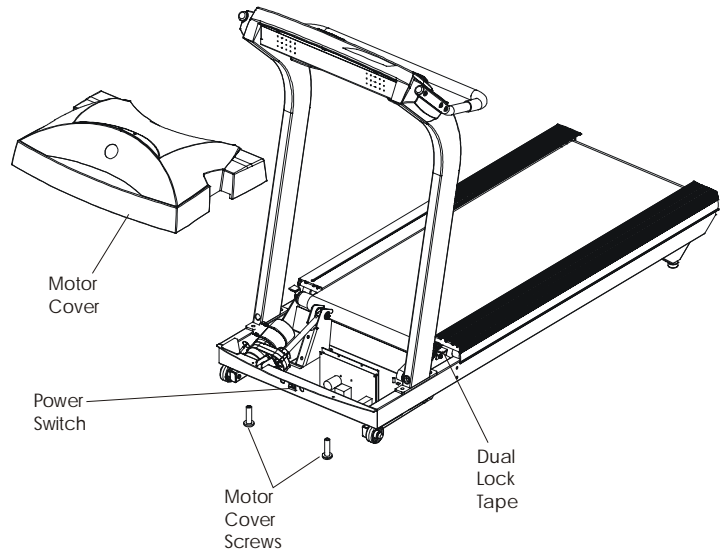
Life Fitness T-Series Consumer Treadmills

How To... Replace The Motor Controller

Tools Required: Phillips Screwdriver

REMOVAL AND INSTALLATION

1. At the power switch, turn OFF the unit, then unplug the line cord at the wall outlet.
2. Remove motor cover screws(2) under the front of the motor cover, then lift the rear portion of the motor cover from the dual lock tape.
3. Disconnect all electrical connectors from the motor controller board.
4. Remove two phillip screws at the bottom of the motor controller mounting bracket and lift out the motor controller from the frame.
5. Install new motor controller in reverse order.



Section III

Life Fitness T-Series Consumer Treadmills

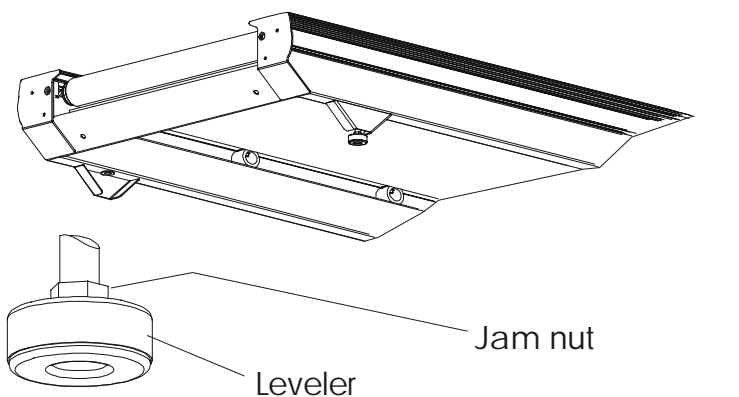
How To... Replace The Leveler Assembly

Tools Required: 6" level and open end wrench set

REMOVAL AND INSTALLATION

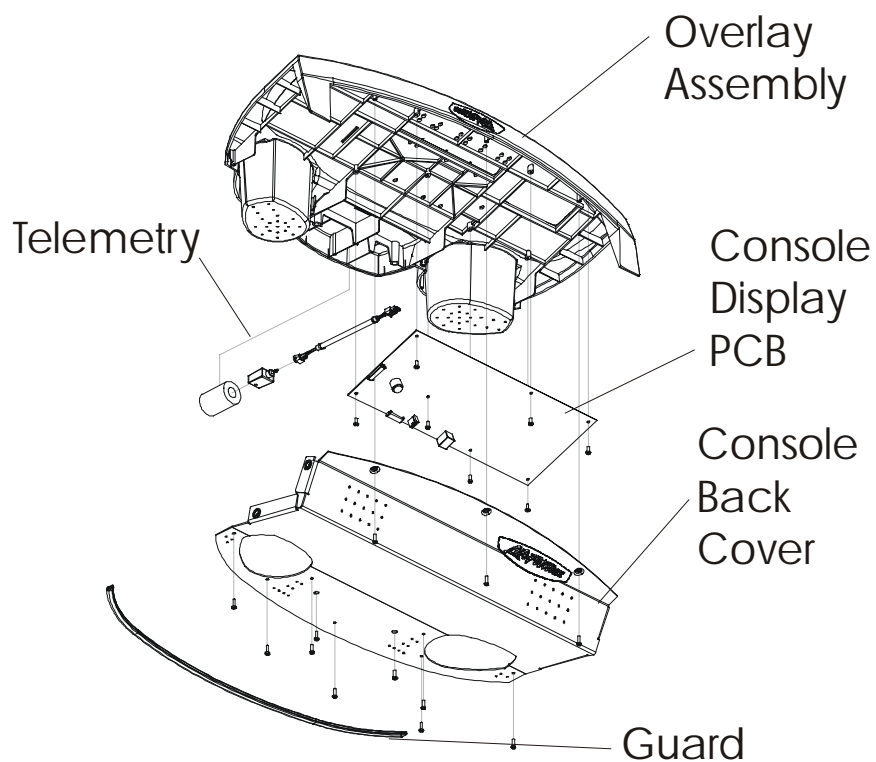
1. At the power switch, turn OFF the unit, then unplug the line cord at the wall outlet.
2. Tilt the unit over on its side.
3. Loosen the jam nut.
4. Remove the adjusting leveler by turning it counterclockwise.

5. Install new adjusting leveler in reverse order. **Make sure to level the unit at the rear roller. Lay at least a 6" level across the rear roller. With the unit level, secure the jam nut up against the leveler frame.**



Life Fitness T-Series Consumer Treadmills How To... Replace The Display Board PCB

Tools Required: Phillips Screwdriver



Section III

REMOVAL AND INSTALLATION

1. At the power switch, turn OFF the unit, then unplug the line cord at the wall outlet.
2. Remove 12 screws from the back of the console and lift out the overlay assembly.
3. Disconnect the ribbon cables, main wire harness, and telemetry connector from the back of the display console.
4. Remove the display board PCB.
5. Install new display board in reverse order.

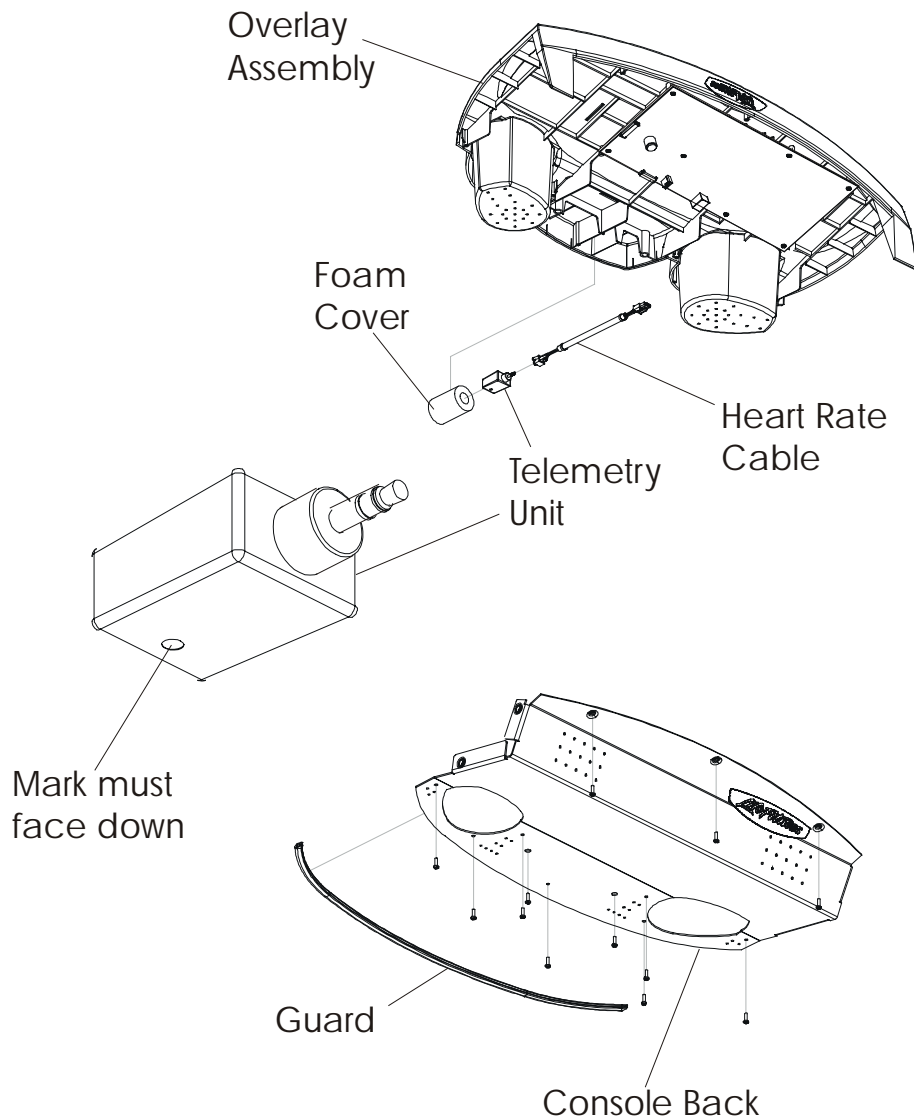
Life Fitness T-Series Consumer Treadmills

How To... Replace The Telemetry Receiver and Heart Rate Cable

Tools Required: Phillips Screwdriver

REMOVAL AND INSTALLATION

1. At the power switch, turn OFF the unit, then unplug the line cord at the wall outlet.
2. Remove 12 screws from the back of the console and lift out the overlay assembly.
3. Disconnect the telemetry connector at the telemetry receiver unit.
4. Remove the telemetry receiver and heart rate cable from the console.
5. Install new telemetry receiver in reverse order making sure to orientate round mark downward as shown.



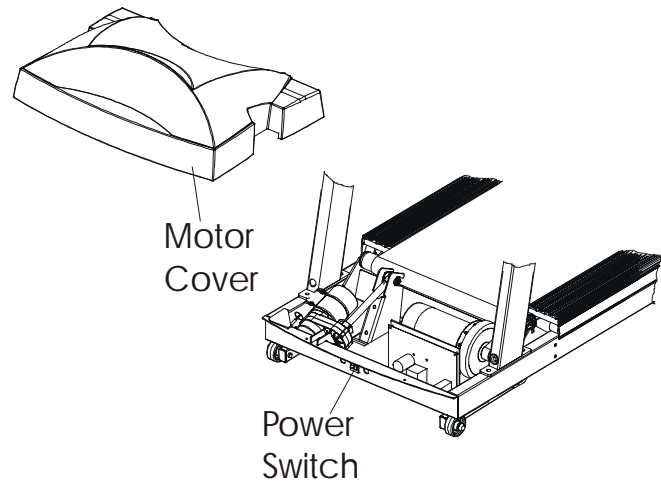
Life Fitness T-Series Consumer Treadmills

How To... Replace The Main Wire Harness

Tools Required: Phillips screwdriver, spring hook

REMOVAL

1. At the power switch, turn OFF the unit, then unplug the line cord at the wall outlet.
2. Remove the mounting screws from back of the console and remove the console.
3. Disconnect the main wiring harness from the back of the console.
4. Remove motor cover screws(2) under the front of the motor cover, then lift the rear portion of the motor cover from the dual lock tape.
5. Disconnect the 10-pin connector from the control board.
6. Pull out the main wire harness from either end of the left side rail and discard.

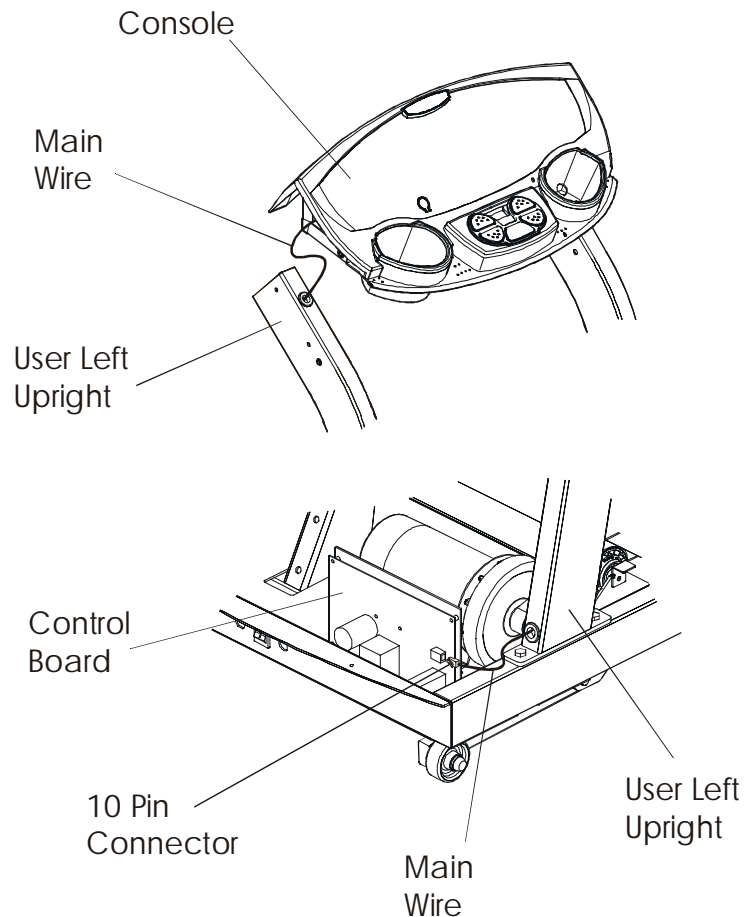


INSTALLATION

1. Feed the 10 pin connector end of the new main wire harness through the top of the user left upright. Lower and fish it out from the bottom access hole in the user left upright. **NOTE:** One method to install new cable is to attach a piece of string to the one end of the old cable and one end to the new cable, then as the old cable is pulled out the new cable will follow. Push excess cable up into the upright.

NOTE: Be careful not to pinch or damage wires.

2. Reconnect the main wire harness at both ends.
3. Complete installation in reverse order.

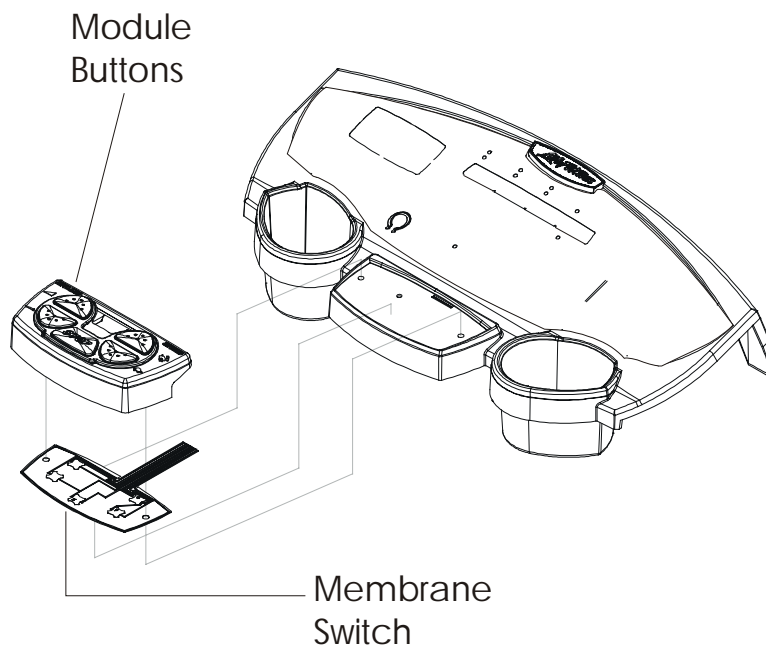


Life Fitness T-Series Consumer Treadmills

How To... Replace The Membrane Switch and Module Buttons

Tools Required: Phillips Screwdriver

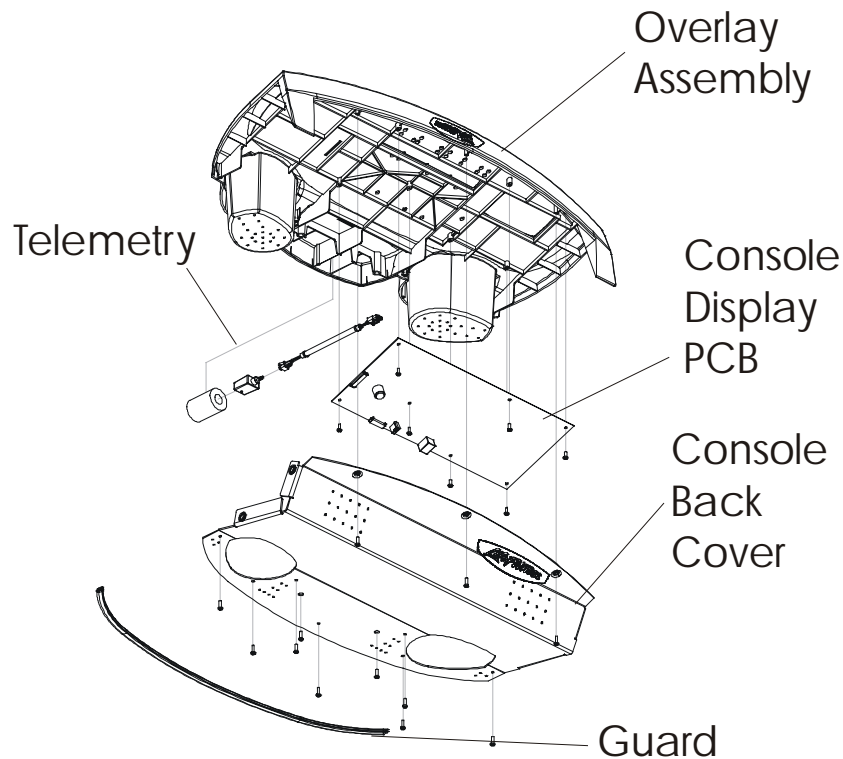
1. At the power switch, turn OFF the unit, then unplug the line cord at the wall outlet.
2. Remove the console.
3. Disconnect the ribbon cable.
4. Remove two(2) screws from the back of the module buttons.
5. Remove the back of the cover and disconnect membrane from main console.
6. Remove the membrane switch.
7. Install the new membrane switch and the module buttons in reverse order.



Life Fitness T-Series Consumer Treadmills How To... Replace The Overlay Assembly

Tools Required: Phillips Screwdriver

REMOVAL AND INSTALLATION



1. At the power switch, turn OFF the unit, then unplug the line cord at the wall outlet.
2. Remove the back cover.
3. Disconnect all cable connectors from the overlay bezel.
4. Remove the heart rate cable, receiver, foam, module button, and PCB from the overlay bezel. Discard the overlay bezel.
5. Install new overlay bezel, making sure to reattach items listed in step 4 in reverse order.

Life Fitness T-Series Consumer Treadmills

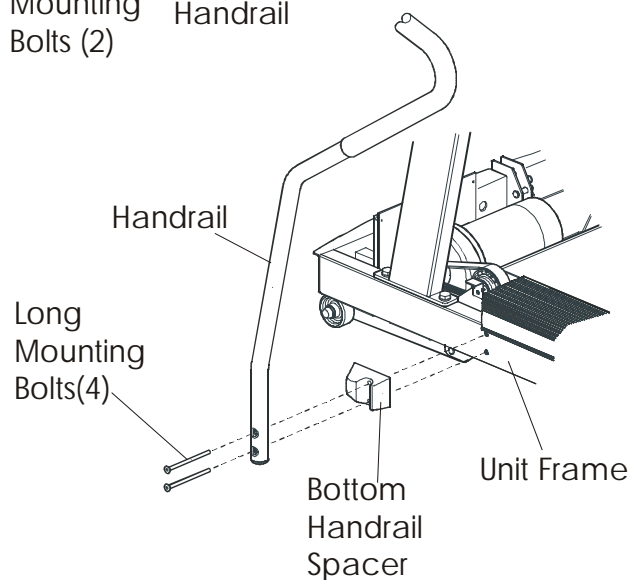
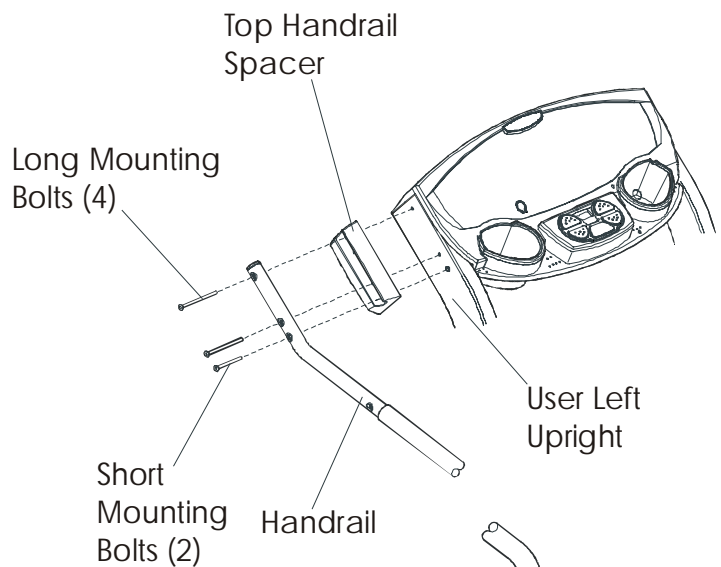
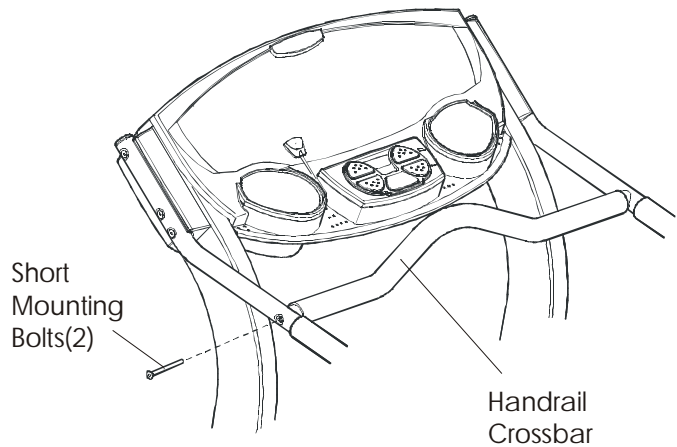
How To... Replace The Handrails and Crossbar

Tools Required: Hex key wrench set

REMOVAL AND INSTALLATION

1. At the power switch, turn OFF the unit, then unplug the line cord at the wall outlet.
2. Remove two(2) short mounting bolts securing the handrail crossbar and remove the crossbar.
3. Remove six(6) mounting bolts from the top handrail spacer. Four(4) long and two(2) short .
4. Remove the top handrail spacers.
5. Remove the four(4) long mounting bolts from the bottom handrail spacers.
6. Remove the spacers and handrails.
7. Install the handrails and crossbar in reverse order.

NOTE: Keep all screws loose until all parts are assembled. Once assembled, then tighten.



Life Fitness T-Series Consumer Treadmills

NOTES:

Section III

SECTION IV

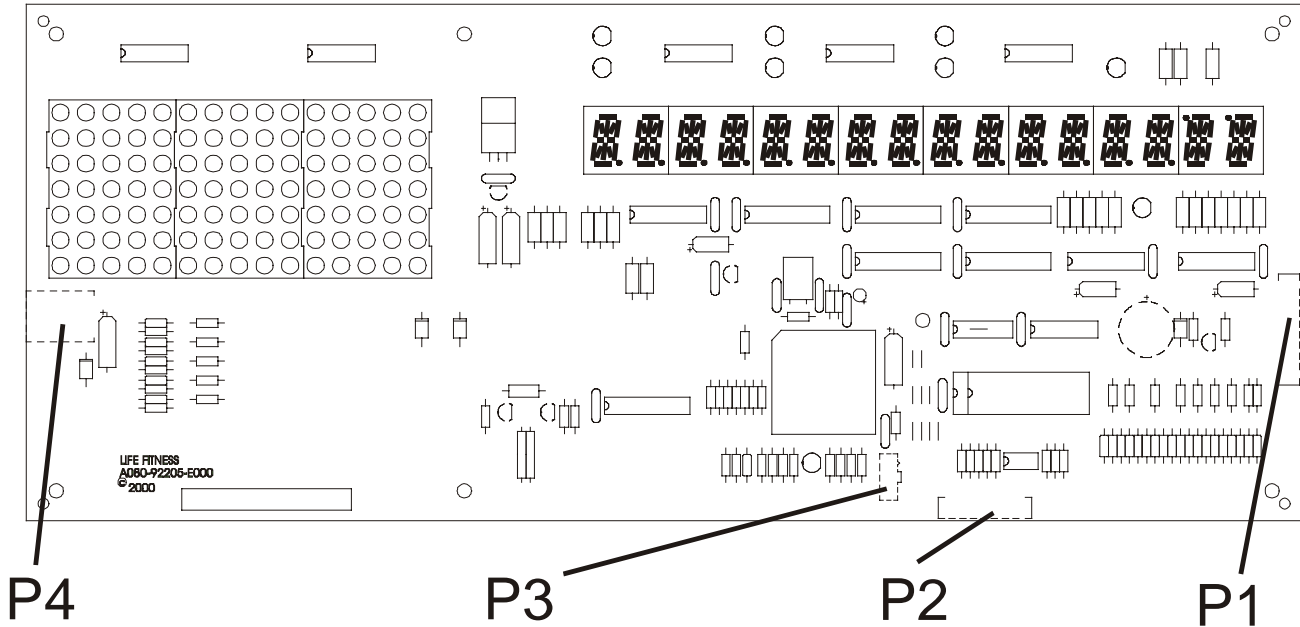
**ELECTRONIC OVERVIEW
AND
WIRING BLOCK DIAGRAM**

Section IV

Life Fitness T-Series Consumer Treadmills
ELECTRONIC OVERVIEW –T3i/T5i/T7i Console

Functional Description


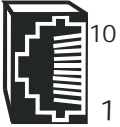
The T3i/T5i/T7i console is designed to act as an intelligent display and keypad interface. It is intended to work in conjunction with the Motor Control module to form the nucleus of the I/O and control system. The console board periodically reads the keypad input port to check for user inputs, updates and refreshes the status LEDs, data display, and communicates with the Motor Control module.



Connector and Pin Functions

Connector	Location	Pin	Functional Description
P1 is a 11 pin connector is used to connect to the membrane switch to the console		1	ESD ground
		2	Switch return 3
		3	Switch strobe 1
		4	Switch return 2
		5	Switch strobe 3
		6	Switch strobe 2
		7	Switch return 1
		8	Switch strobe 1
		9	Switch return 0
		10	Switch strobe 0
		11	ESD ground
P2 is a 9 pin connector used to connect the membrane switch to the console		1	ESD ground
		2	Switch strobe 0
		3	Switch return 1
		4	Switch strobe 3
		5	Switch return 2
		6	Switch strobe 2
		7	Switch return 0
		8	Switch strobe 3
		9	ESD ground

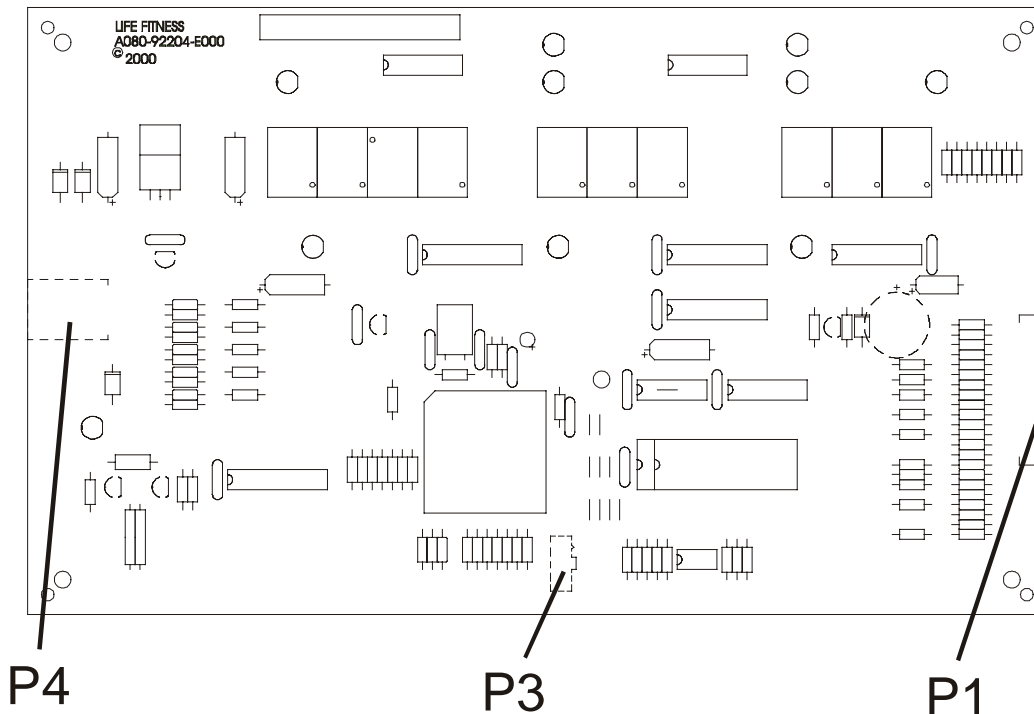
Life Fitness T-Series Consumer Treadmills
ELECTRONIC OVERVIEW -T3i/T5i/T7i Console - Continued

Connector	Location	Pin	Functional Description
P3 is a 3 pin connector used to connect the polar receiver module to the console		1	+5 Vdc
		2	Polar signal
		3	Ground
P4 is an 10 pin phone connector		1	Motor control select
		2	TXD
		3	CLK
		4	RXD
		5	Test
		6	Relay enable
		7	+8 Volts DC
		8	+8 Volts DC
		9	+8 Volts return
		10	+8 Volts return

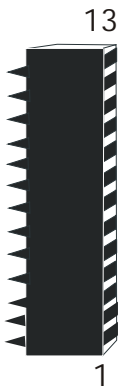

Life Fitness T-Series Consumer Treadmills
ELECTRONIC OVERVIEW – T3/T5 Console

Functional Description

The T3/T5 console is designed to act as an intelligent display and keypad interface. It is intended to work in conjunction with the Motor Control module to form the nucleus of the I/O and control system. The console board periodically reads the keypad input port to check for user inputs, updates and refreshes the status LEDs, data display, and communicates with the Motor Control module.




Connector and Pin Functions

Connector	Location	Pin	Functional Description
P1 is a 13 pin connector is used to connect to the membrane switch to the console		1	ESD ground
		2	Switch return 4
		3	Switch strobe 1
		4	Switch return 3
		5	Switch strobe 3
		6	Switch return 1
		7	Switch strobe 2
		8	Switch return 2
		9	Switch strobe 1
		10	Switch return 1
		11	Switch return 0
		12	Switch strobe 0
		13	ESD ground
P3 is a 3 pin connector used to connect the polar receiver module to the console		1	+5 Vdc
		2	Polar signal
		3	Ground

Life Fitness T-Series Consumer Treadmills
ELECTRONIC OVERVIEW – T3/T5 Console - Continued

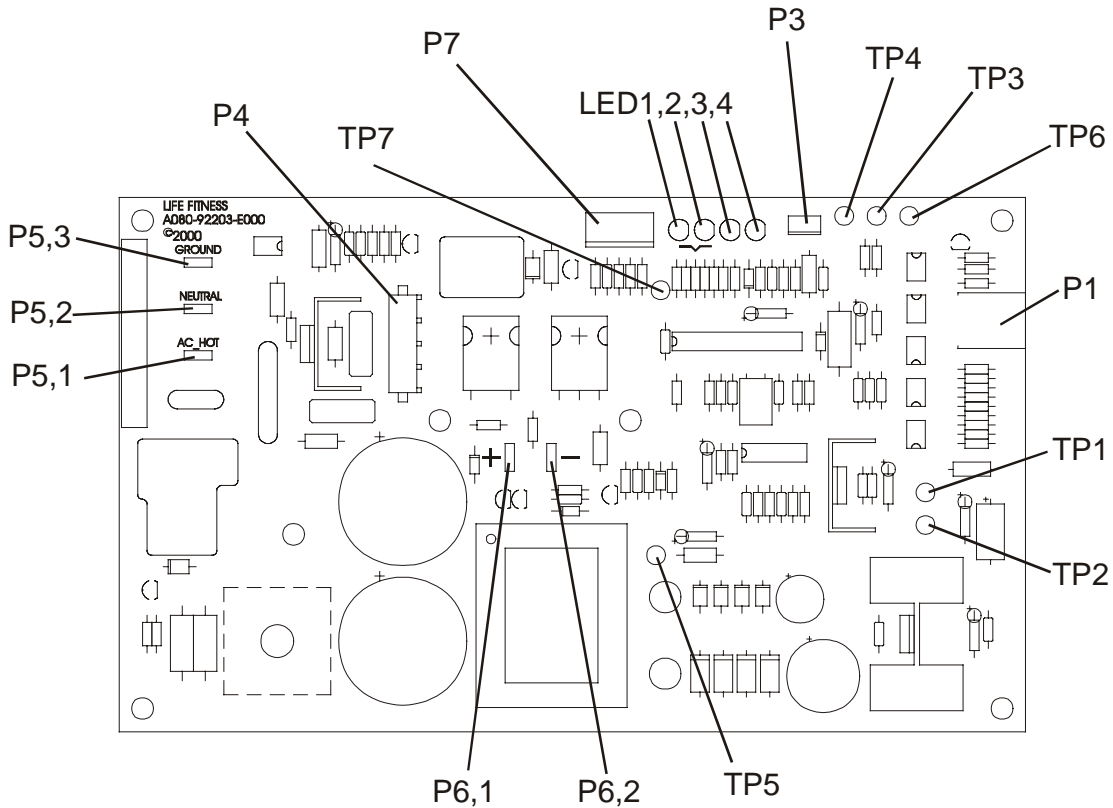
Connector and Pin Functions

Connector	Location	Pin	Functional Description
P4 is an 10 pin phone connector		1	Motor control select
		2	TXD
		3	CLK
		4	RXD
		5	Test
		6	Relay enable
		7	+8 Volts DC
		8	+8 Volts DC
		9	+8 Volts return
		10	+8 Volts return

Life Fitness T-Series Consumer Treadmills
ELECTRONIC OVERVIEW – MOTOR CONTROLLER PCB

Functional Description

The Motor Controller PCBs are designed to act as an interface between the Drive motor, Display Console, and the Lift Motor. The desired belt speed and elevation is sent down to the motor controller and lift motor via the users selected input into the console. The motor is driven by a fixed frequency variable duty cycle signal. If an error condition is detected the main power relay is opened, the PWM pulse is terminated, and the console is informed. The main power relay receives its bus voltage from the console through the emergency pull switch. This relay can be energized by having the emergency pull switch is in its proper place. Opening of the relay does not remove power to the console or the logic on the motor control board, but will interrupt power to the lift and drive motors.




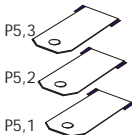
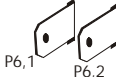



Connector and Pin Functions

Connector	Location	Pin	Functional Description
Service LED	See illustration above	LED 1	Main loop monitor
		LED 2	Communication monitor
		LED 3	Home switch monitor
		LED 4	RPM monitor
Test Point	See illustration above	TP 1	+8 vdc for console
		TP 2	Ground return for TP1
		TP 3	+5 vdc for microprocessor on motor controller
		TP 4	15 vdc
		TP 5	15 vdc
		TP 6	Ground return for TP3 and TP5
		TP 7	Ground

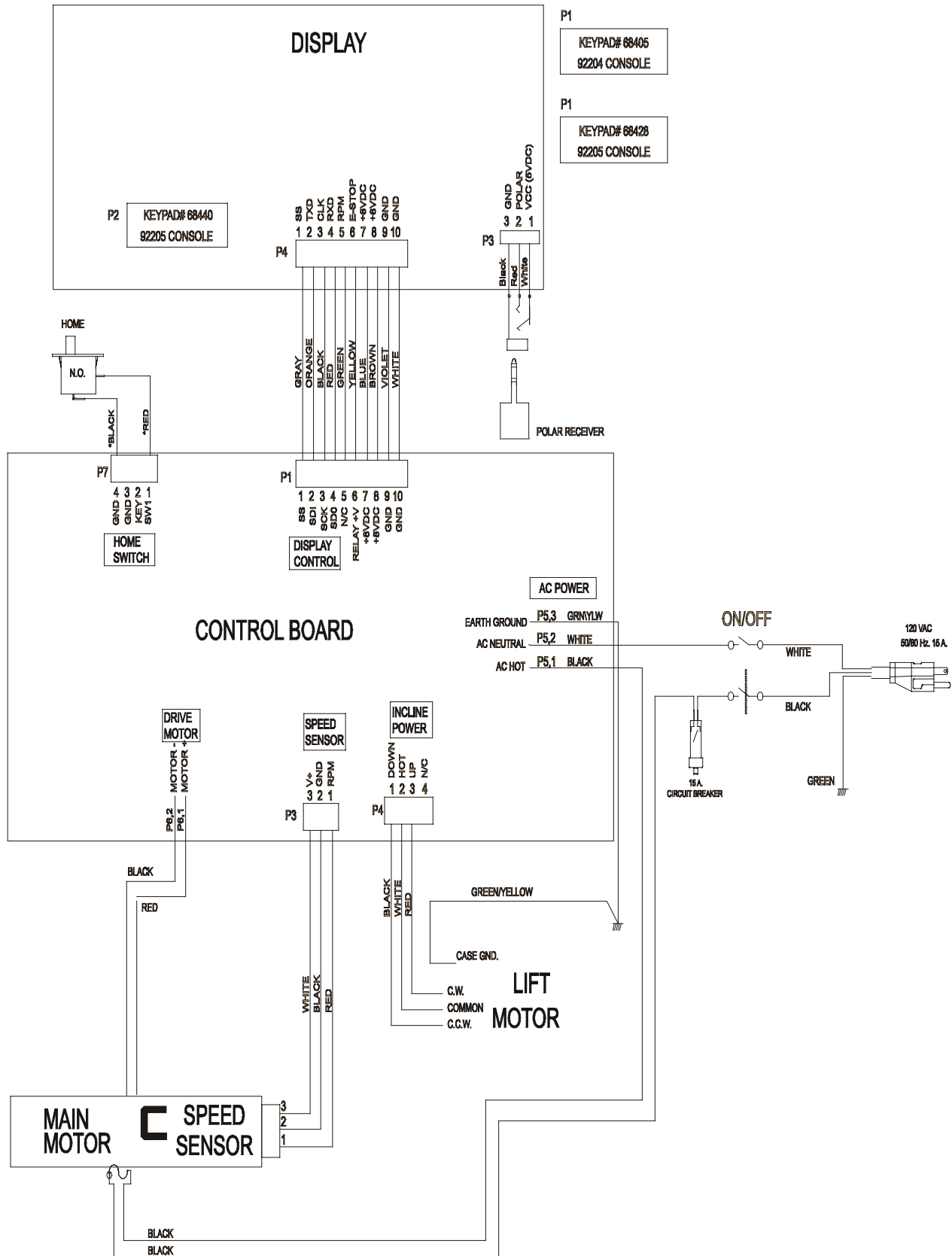
Life Fitness T-Series Consumer Treadmills
ELECTRONIC OVERVIEW – MOTOR CONTROLLER PCB

Connector and Pin Functions

Connector	Location	Pin	Functional Description
P1 is used to link to from the console to the motor controller		1	SS bar and slave selct
		2	SDI serial data in
		3	SCK serial clock
		4	SDO serial data out
		5	Not used
		6	Relay enable +8 Vdc
		7	+8 Vdc
		8	+8 Vdc
		9	Ground
		10	Ground
P3 is used to link the RPM sensor to the motor controller		1	RPM
		2	Isolated ground
		3	+5 Vdc
P4 is used to link the lift motor to the motor controller		1	Down
		2	AC hot
		3	UP
		4	Not used
P5 supplies line current to the motor controller		1	120 Vac
		2	Neutral
		3	Ground
P6 supplies the drive motor with direct current		1	Positive
		2	Negative
P7 links the 0 degree limit switch to the motor controller		1	SW1
		2	Key
		3	Ground
		4	Ground

Life Fitness T-Series Consumer Treadmills

ELECTRONIC OVERVIEW – BLOCK DIAGRAM



Life Fitness T-Series Consumer Treadmills

NOTES:

SECTION VI

MISCELLANEOUS INFORMATION

Life Fitness T-Series Consumer Treadmills
PREVENTIVE MAINTENANCE TIPS

Preventive Maintenance Schedule

ITEM	WEEKLY	MONTHLY	QUARTERLY	BI-ANNUAL	ANNUAL
DISPLAY CONSOLE ASSEMBLY					
Hardware				Inspect	
Overlay	Clean			Inspect	
Emergency Switch/Key	Clean			Inspect	
HANDLEBAR ASSEMBLY					
Hardware				Inspect	
Handlebar				Inspect	
Side Hand Rails				Inspect	
FRAME ASSEMBLY					
Hardware				Inspect	
Motor Cover	Clean				
Motor Electronic Compartment		Vacuum Clean		Inspect	
Drive Belt				Inspect	
Leg Levelers		Inspect/Adjust			
Front Roller				Inspect	
Rear Roller				Inspect	

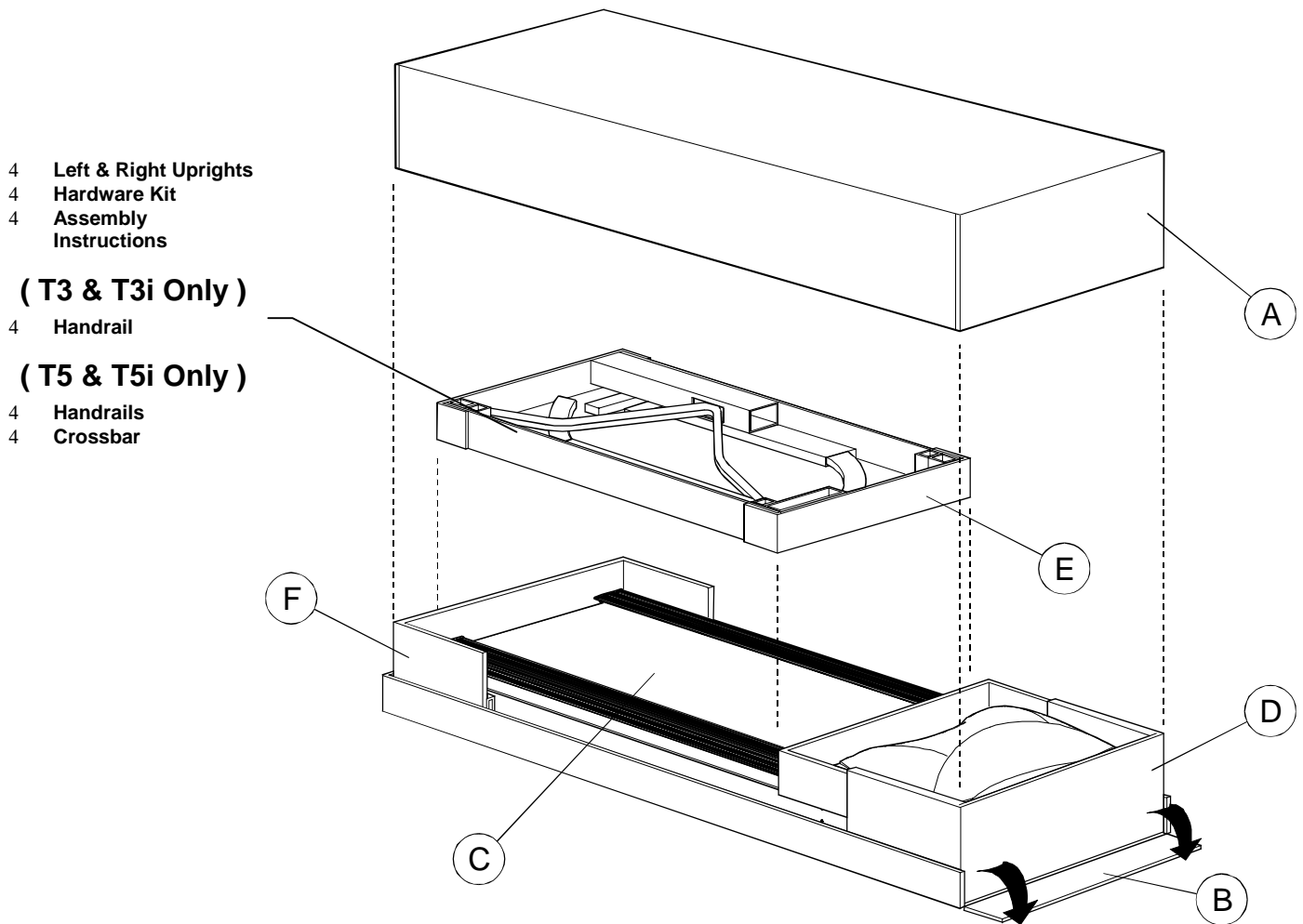
Life Fitness T-Series Consumer Treadmills

UNPACKAGING INSTRUCTIONS (T3/T3i/T5/T5i)

1. Remove all banding from the corrugated shipping container. Carefully lift the shipping container sleeve (A) up and off of the base tray (B) and over the treadmill (C).
2. Tear or cut the front corners of the base tray (B) and fold down the front flap of the base tray.
3. Lift and remove the front end support (D). Remove the ship kit box (E) from the treadmill deck and set aside. Remove the back end support (F).
4. Remove the plastic wrap from the treadmill.
5. Carefully lift the rear of the treadmill and slowly roll the unit forward off of the base tray.

NOTE: BE SURE NOT TO DAMAGE THE LINE CORD WHEN MOVING THE TREADMILL OFF OF THE BASE TRAY.

6. Follow the Assembly Instructions included in the parts bag to complete the assembly of your treadmill.



IMPORTANT

IMPORTANT SAFETY INSTRUCTIONS !

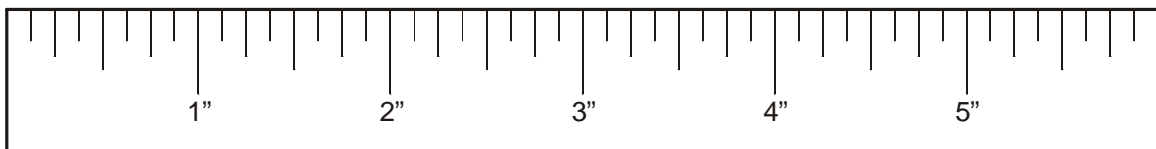
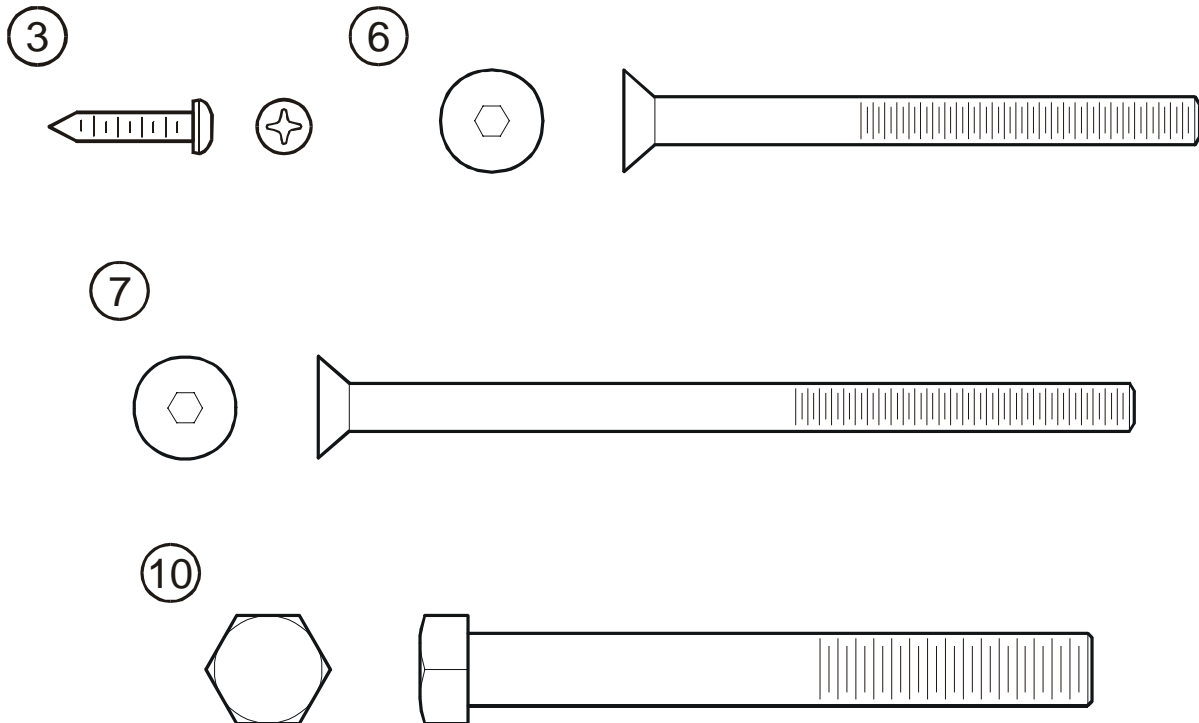
- ⇒ *DO NOT* position the rear of the treadmill within 6 feet (2 meter) of the nearest obstruction. The sides of the treadmill should maintain a minimum clearance of 8 inches (20 cm) from the nearest treadmill or other obstruction.
- ⇒ *DO NOT* locate the treadmill outdoors, near swimming pools, or in areas of high humidity.
- ⇒ *DO* verify the contents of the delivery carton against the accompanying parts listing prior to setting the cartons and shipping material aside. If any parts are missing, contact Life Fitness Customer Support Services at the number listed on the back page of this assembly instruction booklet.
Save the shipping cartons in case of return.
- ⇒ *DO* read the entire Operation Manual prior to attempting to operate this machine, as this is essential for proper use. The Manual explains how to properly use the treadmill and helps you to design an aerobic workout tailored to your personal fitness needs or requirements.

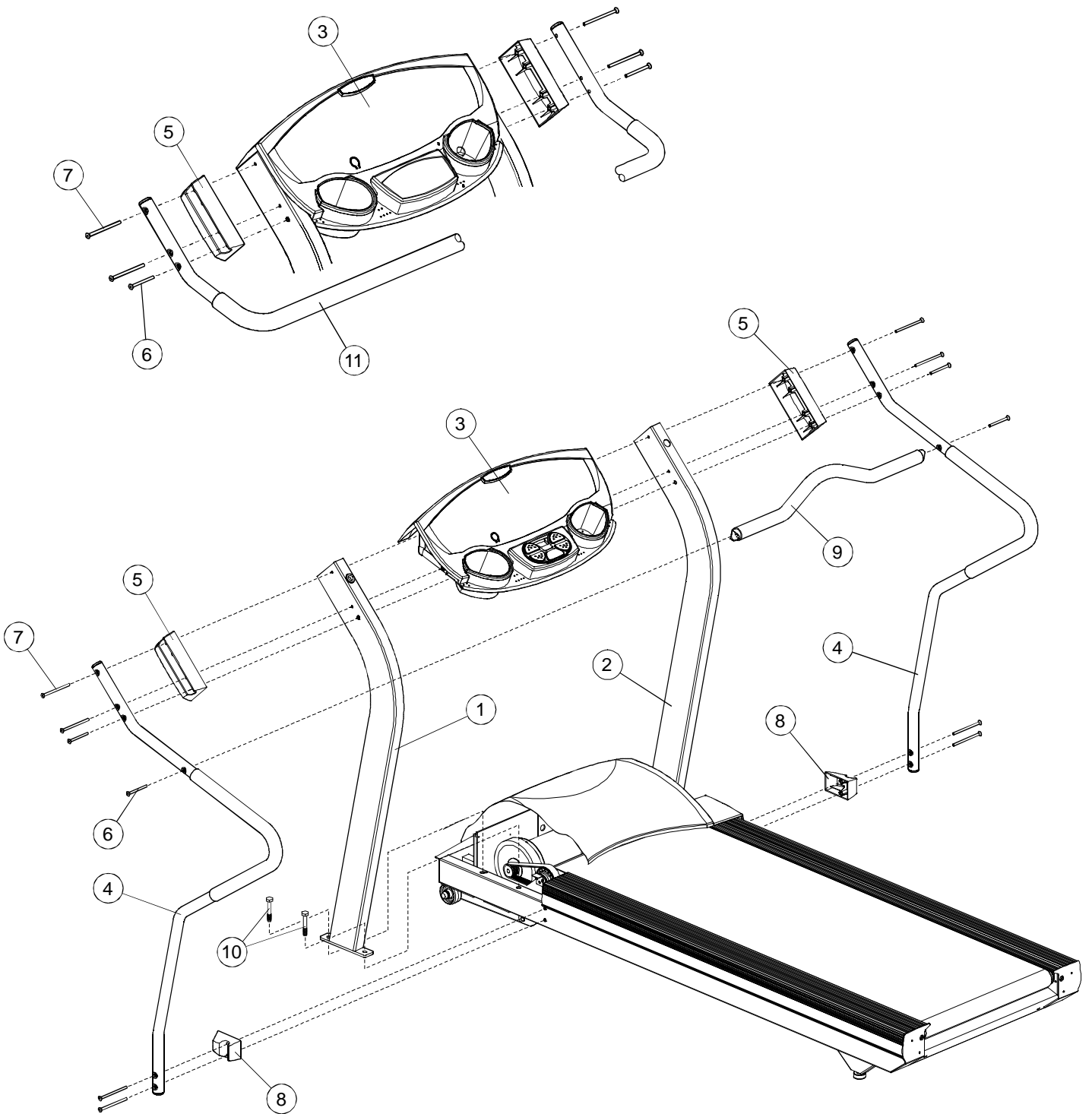
TOOLS REQUIRED FOR ASSEMBLY...

5/32" Hex Key Wrench (provided), 9/16" Combination Wrench, Phillips screwdriver

PARTS DESCRIPTION

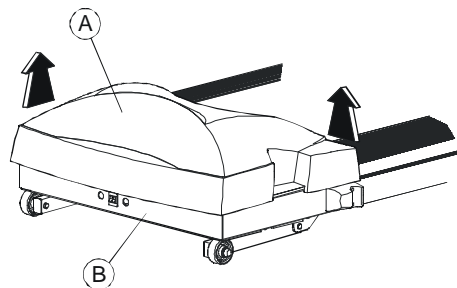
1	USER LEFT UPRIGHT	Qty: 1	2	USER RIGHT UPRIGHT	Qty: 1
3	DISPLAY CONSOLE ASSEMBLY	Qty: 1	4	HANDRAIL (LEFT & RIGHT) (Models T5 & T5i Only)	Qty: 2
5	TOP HANDRAIL SPACER	Qty: 2	6	MOUNTING SCREW (SHORT) (Model T5/T5i) 1/4 - 20 x 3" (Model T3/T3i)	Qty: 4 Qty: 2
7	MOUNTING SCREW (LONG) (Model T5/T5i) 1/4 - 20 x 4.25" (Model T3/T3i)	Qty: 8 Qty: 4	8	BOTTOM HANDRAIL SPACER (Models T5 & T5i Only)	Qty: 2
9	HANDRAIL CROSSBAR (Models T5 & T5i Only)	Qty: 1	10	UPRIGHT MOUNTING BOLT 3/8 - 16 x 3.25"	Qty: 4
11	HANDRAIL (Models T3 & T3i Only)	Qty: 1	12	STOP CORD	Qty: 1
13	MOTOR COVER SCREW 6-20 x 6	Qty: 2			



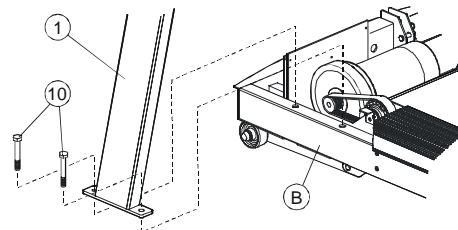


IMPORTANT! DO NOT DISCARD THE SHIP KIT LOCATED ON TOP OF THE DECK AND BELT. ALL NECESSARY COMPONENTS NEEDED TO COMPLETE THE INSTALLATION ARE LOCATED IN THE SHIP KIT.

1. Remove the tape securing the MOTOR COVER (A) to the FRAME (B). Carefully lift and remove the MOTOR COVER.
2. Remove the USER LEFT UPRIGHT (#1) (with grommets installed) from the ship kit. With the USER LEFT UPRIGHT angled toward the rear of the unit, align the mounting holes of the flanged end of the USER LEFT UPRIGHT with those on the top of the FRAME (B). Using two BOLTS (#10), secure the USER LEFT UPRIGHT to the FRAME. Tighten the BOLTS using a 9/16" combination wrench until snug and then back them off 1/4 turn. Repeat the procedure for the USER RIGHT UPRIGHT (#2).



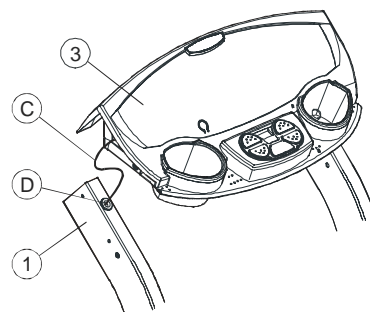
3. Locate the DISPLAY CONSOLE ASSEMBLY (#3). Unwrap the WIRE HARNESS (C) secured to the back of the DISPLAY CONSOLE ASSEMBLY. Standing at the front of the unit, carefully lower the DISPLAY CONSOLE ASSEMBLY down near the tops of the USER LEFT and RIGHT UPRIGHTS (#1 & #2). Lower the user right side of the DISPLAY CONSOLE ASSEMBLY to rest on the USER RIGHT UPRIGHT. Holding the user left side of the DISPLAY CONSOLE ASSEMBLY slightly above the USER LEFT UPRIGHT, feed the WIRE HARNESS down into the USER LEFT UPRIGHT through the TOP CABLE ROUTING HOLE (D) of the USER LEFT UPRIGHT. Once the WIRE HARNESS is completely inserted into the USER LEFT UPRIGHT, lower the DISPLAY CONSOLE ASSEMBLY to completely rest on the USER LEFT UPRIGHT.



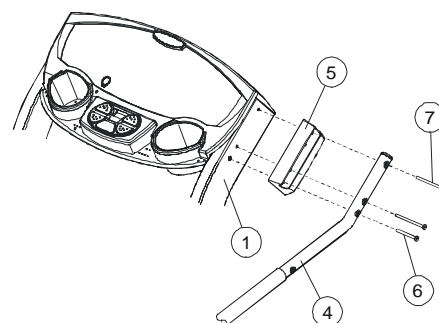
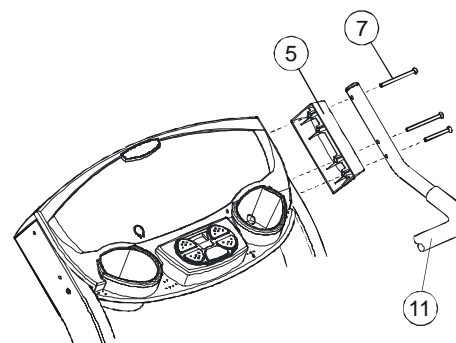
NOTE: BE CAREFUL NOT TO DAMAGE THE WIRE HARNESS (C) WHEN ROUTING IT THROUGH THE USER LEFT UPRIGHT (#1).

NOTE: BE CAREFUL NOT TO PINCH THE WIRE HARNESS (C) WHEN LOWERING THE DISPLAY CONSOLE ASSEMBLY (#3) ONTO THE USER LEFT UPRIGHT (#1).

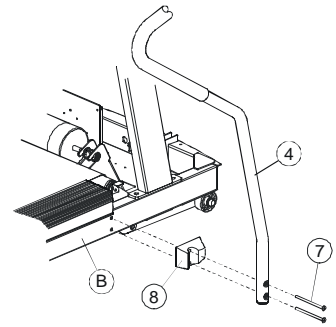
4. **MODELS T3 AND T3i ONLY (Models T5 and T5i Skip to Step 5)** Locate the HANDRAIL (#11) and one TOP HANDRAIL SPACER (#5). On the user right side of the HANDRAIL insert a SHORT MOUNTING BOLT (#6) through the bottom most of the three top mounting holes of the HANDRAIL. Slide the TOP HANDRAIL SPACER over the SHORT MOUNTING BOLT as shown until it fully nests over the HANDRAIL. Slide the HANDRAIL with the TOP HANDRAIL SPACER over the user right end of the display console and upright. Align and insert the SHORT MOUNTING BOLT into the bottom most mounting holes of the user right UPRIGHT. Tighten the bolt until snug and. Insert two LONG MOUNTING BOLTS (#7) through the two remaining mounting holes and tighten all three bolts securely using a 5/32" hex key wrench. Leave the user left side of the HANDRAIL unfastened at this time. Continue to **Step 7**.



5. **MODELS T5 AND T5i ONLY** Locate a HANDRAIL (#4) and a TOP HANDRAIL SPACER (#5). Insert a SHORT MOUNTING BOLT (#6) through the bottom most of the three top mounting holes of the HANDRAIL. Slide the TOP HANDRAIL SPACER over the SHORT MOUNTING BOLT as shown until it fully nests over the HANDRAIL. Align and insert the SHORT MOUNTING BOLT into the bottom most mounting hole of the USER LEFT UPRIGHT (#1). Tighten the bolt until snug and then back it off one full turn. Insert two LONG MOUNTING BOLTS (#7) through the two remaining mounting holes and tighten all three bolts securely using a 5/32" hex key wrench.

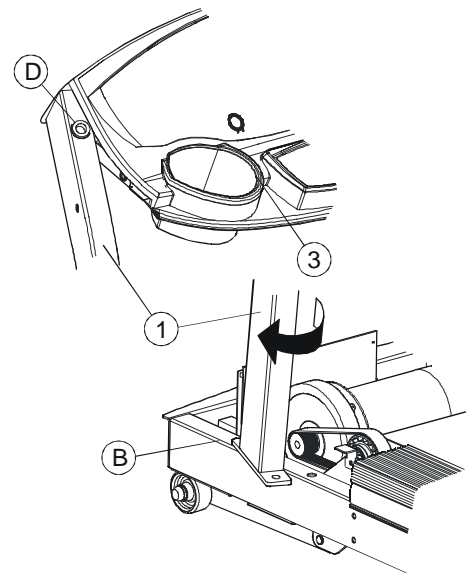


6. Locate a BOTTOM HANDRAIL SPACER (#8). Insert the BOTTOM HANDRAIL SPACER between the bottom of the HANDRAIL (#4) and the FRAME (B) with the long taper facing the front of the unit as shown. Align the two mounting holes in the HANDRAIL, BOTTOM HANDRAIL SPACER, and FRAME and insert two LONG MOUNTING BOLTS (#7) and tighten securely using a 5/32" hex key wrench.
7. After securing the USER RIGHT SIDE HANDRAIL (#4 or #11) to the USER RIGHT UPRIGHT (#2), remove the USER LEFT UPRIGHT rear mounting bolt and carefully twist THE USER LEFT UPRIGHT (#1) outward until the rear mounting flange is off of the FRAME (B).



NOTE: BE CAREFUL NOT TO TILT THE USER LEFT UPRIGHT (#1) FROM UNDER THE DISPLAY CONSOLE (#3) WHEN TWISTING THE USER LEFT UPRIGHT OUTWARD.

Reach a finger up into the ACCESS HOLE (E) located under the USER LEFT UPRIGHT mounting flange and guide the 10-PIN CONNECTOR (10P) of the WIRE HARNESS (C) that was fed into the USER LEFT UPRIGHT through the BOTTOM CABLE ROUTING HOLE (F) of the USER LEFT UPRIGHT. Carefully pull the excess wire from within the USER LEFT UPRIGHT. Plug the 10-PIN CONNECTOR into the CONTROL BOARD (G) located in the MOTOR COMPARTMENT (H). Feed any excess wire back into the USER LEFT UPRIGHT.



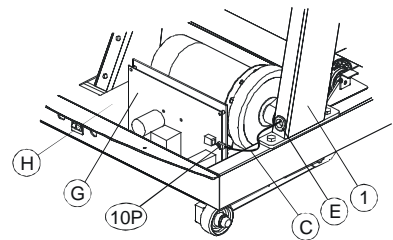
NOTE: BE CAREFUL NOT TO DAMAGE THE WIRE HARNESS (C) WHEN PULLING IT THROUGH THE BOTTOM CABLE ROUTING HOLE (F) IN THE USER LEFT UPRIGHT (#1).

8. Carefully twist the USER LEFT UPRIGHT back into position on the FRAME (B) and re-insert the rear MOUNTING BOLT (#10). Tighten the BOLT using a 9/16" combination wrench until snug and then back it off 1/4 turn.

NOTE: BE CAREFUL NOT TO DAMAGE THE WIRE HARNESS (C) WHEN TWISTING THE USER LEFT UPRIGHT (#1) BACK INTO POSITION.

9. Repeat **Step 4** for Models T3 and T3i or **Steps 5 and 6** for Models T5 and T5i to assemble the USER RIGHT HANDRAIL.

For Models T5 and T5i, tighten all five mounting bolts and then back them off one full turn.



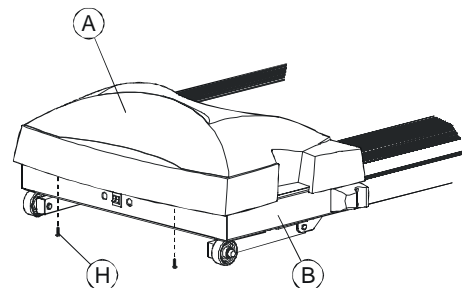
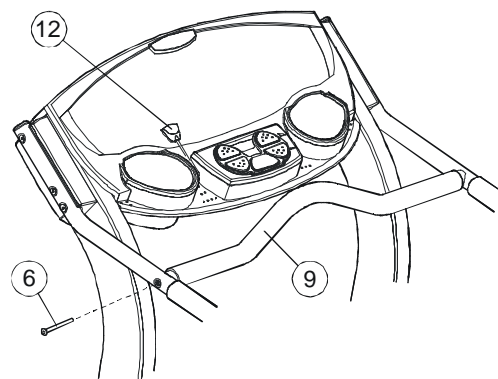
- 10. MODELS T5 AND T5i ONLY** Locate the HANDRAIL CROSSBAR (#9). With the bend facing upward and pitched toward the DISPLAY CONSOLE, carefully place the HANDRAIL CROSSBAR between the user left and right handrails as shown and align the mounting holes. Insert one SHORT MOUNTING BOLT (#6) on either end of the HANDRAIL CROSSBAR and tighten using a 5/32" hex key wrench.

Securely tighten all mounting bolts on the USER LEFT HANDRAIL.

- 11.** Securely tighten the four MOUNTING BOLTS (#10) securing the USER LEFT and RIGHT UPRIGHTS to the FRAME (B).
- 12.** Position the MOTOR COVER (A) back over the MOTOR COMPARTMENT (E) and secure the MOTOR COVER to the FRAME (B) using the two MOTOR COVER SCREWS (#13). Tighten the screws securely.

NOTE: BE CAREFUL NOT TO PINCH THE WIRE HARNESS (C) WHEN REPLACING THE MOTOR COVER (A).

- 13.** Place the stop cord (#12) in the proper location.



PRE-OPERATION CHECKLIST

- ✓ *Ensure that all fasteners are tight.*
- ✓ *Make sure the STRIDING BELT is properly tensioned and aligned according to the Operation Manual.*
- ✓ *Check the operation of the STOP switch and tether switch assembly. (See Operation Manual.)*
- ✓ *Confirm the display console is set to English or Metric units. (See Optional Settings ENG/MET in Operation Manual.)*
- ✓ *Read the entire Operation Manual before using the treadmill.*

Life Fitness T-Series Consumer Treadmills
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.



CUSTOMER SUPPORT SERVICES

PARTS ORDER (IF BOTH PLEASE INDICATE)
 PRODUCT TROUBLESHOOTING

SALE
 WARRANTY

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

METHOD OF SHIPMENT: 1 DAY 2 DAY 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
 10601 West Belmont.
 Franklin Park, IL 60131-1548
 Telephone 1-800-328-9714, 1-847-451-0036
 FAX 1-800-216-8893



Life Fitness T-Series Consumer Treadmills

NOTES:
