

SERVICE & TECHNICAL MANUALS

Please reference the **PF Microsite**

for additional Life
Fitness service
information or for
information on training
courses and class
scheduling.

pf.lifefitness.com

<u>Username</u>: planetfitness <u>Password</u>: pfnolunks



())	LIFEFITNESS

Diagnostic Nav. Key Combinations

Diagnostic Nav. Key Combinations					
KEY COMBINATIONS	DIAGNOSTICS NAVAGATION EFFECT				
Weight, Weight, Weight, Weight, Weight, Stop	Displays software version #. Press Go button within timeout window to return to Attract.				
R-Up, R-Down, R-Up, R- Down, Time	Starts a software update (lfupd or ulmage file) - Updates WiFi network if WiFi config file is found				
R-Up, R-Down, R-Up, R- Down, Units	Installs firmware updates from USB stick (duplo_app.bin)				
Stop, Stop, Stop, R-Down, R- Down, R-Down	Immobilize the console (repeat to un- Immobilize)				
Time, Time, Time, Time, Stop	Opens sound/beeps on/off menu. Press R-Up & R-Down to Navigate. Press Go button within timeout window to accept changes. Use the R-Up or R-Down to toggle to ON OFF. Activates Marathon Mode for one workout, or until the STOP key is pressed, whichever happens first				
R-Up, R-Up, R-Down, R- Down, Time, Stop					
Time x 4, Weight, Time x 4, Units, Stop	Prompts the user to reset to factory defaults. Must press GO within 5 seconds of prompt to confirm.				
Stop, Stop, Stop, R-Up, R- Up, R-Up	Disables End-Of-Workout Homing and incline-related errors. This will allow technicians to use incline inworkout on a unit with a malfunctioning home switch.				
R-Up, R-Down, R-Up, R- Down, Weight	Downloads logs to USB stick				
R-Up, R-Down, R-Up, R- Down, R-Up, R-Down, Weight, Stop	Displays status for WiFi. OFF means the WiFi Enabled setting is disabled. CONN means that the console is connected to the LFC push server.				

(I) LIFEFITNESS

Software Upgrading Process

Firmware Updating Process

If there are no LEDs after your software update, you will need to manually load the firmware files.

- 1. Contact our Contact Center at 1-888-PLANET5 to acquire the *duplo_app.bin* file.
- 2. Format a different USB flash drive using the instructions provided above.
- Copy and Paste the duplo_app.bin file into your newly formatted USB flash drive using the instructions provided in this Job Aid and "Eject" as instructed.
- Insert your USB flash drive into the console and press R-Up, R-Down, R-Up, R-Down, Units.
- 5. When complete the console with flash back to the LF logo.
- Remove your USB flash drive from the console



Technical Reference

Global Technical Training Organization



Contains frequently used service information for quick on-the-job usage





Table of Contents

Title	Pages
Personal Protection Equipment (PPE)	3
Tool & Lubricants List	4 - 5
Torque Wrench Usage	6
Cleaning and Disinfecting	7 - 9
Preventative Maintenance	10 - 11
Preventative Maintenance (PowerMill)	12 - 17
Electrostatic Discharge (ESD)	18
Multimeter Familiarization and Use	19 - 21
Cable & Generator Testing	22
Generator Testing Ohms Chart	23
6 Steps of Console Troubleshooting	24
Additional Maintenance Videos	25
Striding Belt Tensioning	26
Striding Belt Alignment	27
Strength Cautions	28
Software Updating 7 Step Process	29 - 32
Diagnostic Navigation Key	Back
Combinations	Cover



2





Software Upgrading Process Copy & Pasting Software into your USB Stick

- Locate the folder containing your recently downloaded Integrity C Console software. Open the file window containing the download, but do not click on the downloaded software file yet.
- Locate your USB flash drive in File Explorer & open that window.
- 3. You should now have 2 open window on your computer.
- 4. Right-click on the downloaded software file icon and select "Copy" from the drop-down menu.
- Right-click anywhere within your USB flash drive blank window and select "Paste" from the drop-down menu.
 Doing so will copy all of the software into your USB flash drive.
- 6. Right-click on your USB flash drive icon and select "Eject" from the drop-down menu.
- Your USB flash drive is now ready to update your console's software
- 8. As stated in your "7 Step Software Updating Checklist", insert your USB flash drive into the console.
- 9. Press: R-Up > R-Down > R-Up > R-Down > Time
- 10. Wait for a check mark to appear on the console
- 11. Remove your USB stick from the console





Software Upgrading Process



Formatting your USB Flash Drive

- 1. Connect your USB flash drive to your computer by inserting it into one of your PC's **USB** ports
- 2. Locate your USB flash drive in File Explorer
- 3. Right-click on your USB flash drive's icon and select "Format" from the drop-down menu. Doing so will open the Format window.
- 4. Within the file system pull-down tab, make sure the setting is "FAT32". This should be the default setting.
- 5. Within the format options section, check the Quick Format box if available. This will speed up the process.
- 6. Click Start and then click OK to format and erase all data on your USB flash drive. Doing this will cause Windows to begin formatting your flash drive for you
- 7. Click OK when prompted that the format is complete. Your flash drive has been successfully formatted.

Job Aid Link Console Software & Firmware Updating Process







Personal Protection Equipment (PPE)

Equipment worn to minimize exposure to hazards that cause serious workplace injuries or illnesses.





Checklist – Technician's Basic Tools	
□ Face Masks □ Face Shields or Eye Protection Goggles □ Disposable vinyl, rubber or silicone gloves □ Eye Protection Goggles □ Tape Measure □ Masking Tape □ Portable Vacuum Cleaner □ Multimeter with Test Leads □ Anti-Static Grounding Wrist Strap □ Microfiber Cloths □ E-Ring Tool □ Calibrated Torque Wrench □ Rubber Mallet / Dead Blow □ Adjustable Wrench □ Ratchet Wrench □ 15mm Crow's Foot □ Full Metric Socket Set □ Full SAE/Imperial Socket Set □ Full Torx Set □ Full Metric Ball Tipped Allen/Hex Wrench Set □ Full Imperial Ball Tipped Allen/Hex Wrench Set □ Full Imperial Open-End Wrench Set □ Full Imperial Open-End Wrench Set □ Full Set of Standard & Phillips Screwdrivers □ Internal/External Retaining Ring Pliers □ Diagonal (Wire Cutting) Pliers □ Bike Crank Arm Removal / Puller Tool	
□ 15mm Pedal Wrench	i.



- □ Locate your Integrity C Console software using the <u>Halo Software Download Link</u>, click the Download button under your console's image and download the software to your computer
- ☐ Format your USB flash drive using instructions provided in this Job Aid
- ☐ Copy and paste the downloaded software file icon to your USB stick
- ☐ Insert your USB flash drive into the console
- ☐ Press R-Up, R-Down, R-Up, R-Down, Time
- ☐ Remove your USB stick

<u>Halo Software Download Page Link & Address</u> https://www.halo.fitness/web/softwareDownload.html





29

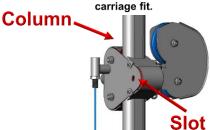


 $H \wedge L O$

Strength Cautions

CM/MJ Carriage Pull Pin Adjustment

The carriage's front roller hole is slotted and allows the roller to adjust in conjunction with the column to provide a secure



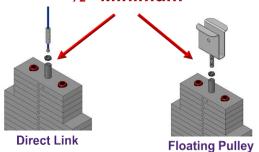
If the carriage is loose or wobbles, adjust bolt within slot (bolt removed for view).

Threaded Cable Terminations

All Cable terminals or ends that are threaded into a weight stack or frame must be seated by at least 1/2" for secure safe operation.

This applies to all direct link weight stacks, floating pulley style weight stacks as well as direct frame terminations.







28

Checklist – Lubricants & Thread Lockers

- ☐ 242/243 Blue Thread Locker
- ☐ 2701 Green High Strength Thread Locker
- 30W Non-Detergent Motor Oil
- Multi-Purpose Oil
- Wheel Bearing Grease
- White Lithium Grease
- ☐ Clear Silicone Grease

Caution:

Only use these product types on the materials stated within the Life Fitness instruction documents. Failure to use these products as instructed, can damage equipment, material, parts and void warranty.





Multi-Purpose_Oil







30W Non-Detergent

Motor Oil



White Lithium Grease







Wheel Bearing Grease









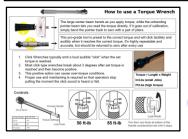
Calibrated Torque Wrench

Recommended:
Dial & Click Torque Wrench



"Dial & Click" type torque wrenches:
Torque Wrench, 10-75 ft. lbs., 3/8 or 1/2 inch
Drive. Manual adjustment type with micrometertype scales stamped into housing show torque
settings in both English and metric units.
Accuracy: +/- 4%.

All structural joints on any unit must be tightened to the recommended torque specification shown in the service documentation.



For additional instructions, please reference the "How to use a Torque Wrench" Job Aid.



Job Aid & Video Link
How to use a
Torque Wrench

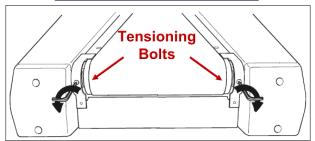


QR Cod

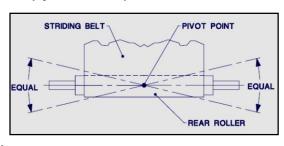


Treadmill Belt Tensioning & Alignment

Striding Belt Alignment Process



- I. Ensure that the treadmill is correctly leveled.
- 2. With the belt running, note its tracking (centering).
- 3. If the belt moves or has moved to the right, turn the right Tensioning Bolt 1/4 turn counterclockwise and then the left Tensioning Bolt 1/4 turn clockwise to bring the belt back to center.
- Turning both bolts equally in the opposite directions will prevent additional tensioning while still aligning.
- 5. If the belt has moves or has moved to the left, simply reverse this process.

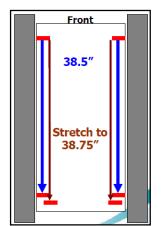


planet



Treadmill Belt Tensioning & Alignment

Striding Belt Tensioning Process



- Position the belt seam on the underside of the treadmill and not visible.
- 2. Place two (2) pieces of tape on the left and right side of the belt near the front roller.
- On each side, place another piece of tape exactly 38.5" from the first piece of tape.
- Counting wrench rotations, stretch the Belt so that the marks are now at 38.75" on both sides.

Testing After The Tensioning Process



) LIFEFITNESS

"Stomp Test"

Run unit at about 2.5
mph then stomp your
foot to check if the
striding belt slips. If
slippage occurs, make
minor adjustments to
the tension by equal 1/4
turns on both tensioning
bolts. Repeat the Stomp
Test after each
adjustment.



26

Cleaning and Disinfecting

Refer back to Planet Fitness Corporate for recommendations on cleaning and disinfecting recommendations

Link, Address & QR Code to the Instructional Video:

Global Cleaning & Disinfecting Video Link https://youtu.be/O-EMcwqKJfU



6 Step Cleaning Checklist

- □ Use the appropriate Personal Protection Equipment (PPE) when cleaning and disinfecting your equipment
- □ Reference the cleaning product manufacturer's label instructions prior to cleaning and disinfecting your equipment
- □ Apply the cleaner to a microfiber cloth first and then use the cloth to wipe down your equipment
- Avoid spraying any cleaner directly on the equipment, this could cause corrosion or damage to electronic components
- ☐ Give special attention to all equipment touchpoints, pads & accessories
- ☐ Wipe the unit from one side to the other vs. in a circle





Cleaning and Disinfecting

on cleaning and disinfecting recommendations

Recommendations

- Life Fitness recommends cleaning and
- All Life Fitness customers are recommended to establishing a comprehensive preventative maintenance and cleaning schedule dependent
- for use on Life Fitness Equipment. We encourage our customers not to use bleach, acid-based or abrasive products on their equipment.
- Follow the guidelines offered by the Centers for Disease Control and Prevention (CDC) or the World Health Organization (WHO) to ensure that you're doing what you can to eliminate coronavirus and other harmful germs in common areas.

Life Fitness recommends removing each unit's

Job Aid Link Cleaning and Disinfecting

) LIFEFITNESS

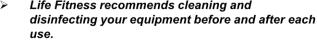


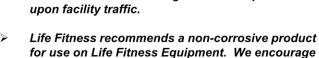


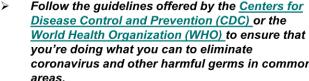


Refer back to Planet Fitness Corporate for recommendations









shrouds and vacuuming all dust and debris from inside on a regular schedule based upon facility traffic.

8







Additional Links to Maintenance Videos for Current Products





INTEGRITY II TREADMILL

WATCH VIDEO

https://www.youtube.com/watch?v=zSWDTza4srM







INTEGRITY II CROSS TRAINER

WATCH VIDEO

https://www.youtube.com/watch?v=OAWPmSyg5xg







INTEGRITY II RECUMBENT BIKE

WATCH VIDEO

https://www.youtube.com/watch?v=sdkNcxYI20I







INTEGRITY II UPRIGHT BIKE

WATCH VIDEO

https://www.youtube.com/watch?v=FJLh4Q9QGpo











Console Troubleshooting 6 Step **Console Troubleshooting Process**

- 1. **Update Software**
- 2. Check that the main wiring harness is properly seated in the base and in the console (Check Continuity if Necessary)
- 3. Check that all wiring connectors are seated on each of the internal console circuit boards.
- Perform a Hard-boot vs Soft-boot 4.
- 5. Reset the console to factory defaults
- 6. Swap console



)) LIFEFITNESS

Please reference the "Integrity C Console Troubleshooting" Job Aid.



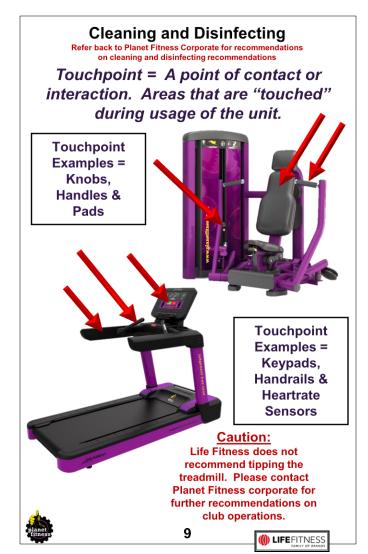
Job Aid Link

Int C Console Diagnostics Nav

with Troubleshooting







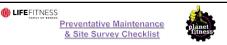
Preventative Maintenance

Site Survey Checklist Process

Link & QR Code to your Planet Fitness Preventative Maintenance Site Survey Checklist Document:

Job Aid Link Planet Fitness PM Site Survey Checklist





A time Survey is an inspection of an area to seemly assess and guither information for an estimate or report to complete identified tasks.

ALL UNITS MUST BE USED & ALL FEATURES FULLY TESTED FOR THIS SITE SURVEY (Strength with a minimal amount of weight & cardio at both the lowest and the highest speed or resistance)

Phase section and instruction are section as a section and instruction and ins

Big big de registration de la constitución de la co

| Control (Cont. Age Was Age) | Control (Cont. Age Was Age) | Control (Cont. Age Was Age) | Control (Cont. Age) | Control (Cont. Age) | Control (Cont. Age) | Control (Cont. Age) | Control (Control (Con

A Toutscreen Californian

A Toutscreen Californian

A Toutscreen Californian

A Note Insertice Insertice

A Note Insertice Insertice Insertice

A Note Insertice Insertice Insertice

A Note Insertice Insertice Insertice Insertice

A Note Insertice Insertice Insertice

A Note Insertice Insertice Insertice

A Note Insertice

A

For additional information, parts or service, our Contact Center is available at 1-888-PLANETS (888-752-6385) or planetitiness@lifefitness.com

(I) LIFEFITNESS







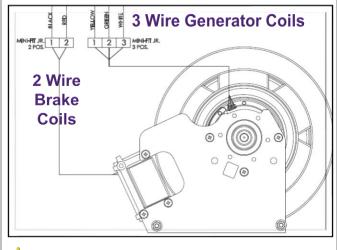
Generator Testing Process



The test will verify any commercial Generator's proper electrical operation.

- Measure OHMS between each of the 3 wires (Generator Coils) with flywheel stable.
- Measure OHMS between the two wires of the Brake coil.

	Generator Coils Break Coils		
Life Fitness	69.5 ohms +/- 10%	12.1 ohms +/- 10%	
SCIFIT Rotary	50 ohms +/- 10%	10.0 Ohms +/- 10%	
Cybex	28.5 ohms +/- 10%	2.5 ohms +/- 10%	
SCIFIT Latitude	26.0 ohms +/- 10%	10.0 Ohms +/- 10%	



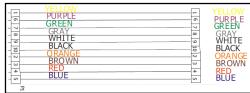




Cable & Generator Testing (Multimeter Use)

Continuity





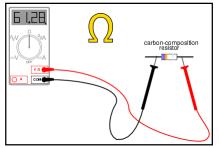
The placement of the selector switch should point to a tone symbol. If correctly setup, the meter will beep when the meter leads touch together. This test is to determine if a wire if "broken" or shorted to another wire.

Disconnect cable ends & perform the 3 test process.

- 1) Pin to Pin = Ex. Red to Red (Should Produce A Beep)
- 2) Pin to All Other Pins = Ex. Red to (Not Red) Blue, Brown, Black, etc.... (Should Not Produce A Beep)
- Pin to Frame = Frame to be used as a Ground/Reference (Should Not Produce A Beep)

Resistance (Ohm $[\Omega]$)





Note the placement of the selector switch, it points to the "horseshoe" resistance (Ohms) symbol.

This process is used for Generator testing only.

22





Preventative Maintenance Optional Reporting

Recommendation Only

Common Parts:

- Integrity C Console 5A / 12VDC (60W) Power Supply Part Number = 1001517-0002
- > 12VDC Battery (Arc Trainer Only)

 Part Number = EC-18267
- > 6VDC Battery

Part Number = 0017-00003-0685



To be used in accordance with your Planet Fitness ticketing system.





OP Code





Preventative Maintenance PowerMill Process

Sprocket and Chain Alignment Process

Before beginning the PowerMill Preventative Maintenance Process, each unit must be assessed for the 4 Key Chain Misalignment Indicators. If any of these 4 Key Indicators are present, the chain alignment process must be performed before the PowerMill Preventative Maintenance. This document is to be used in conjunction with The PowerMill Preventative Maintenance Job Aid & The PowerMill Preventative Maintenance Video.

4 Key Indicators for an Alignment

- Steps not centered in the body of the PowerMill
- 2. Metal shavings visible near the rear of the unit and coating the chains. sprockets and wear bars
- Chains not centered on the sprockets
- 4. **Noisy**

) LIFEFITNESS





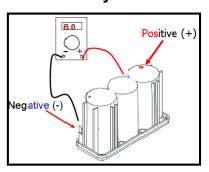


Multimeter Use - Battery Maintenance

Voltage







- 1. Do not store in high temperature conditions (such as inside a vehicle).
- 2. Do not use batteries if Open Circuit Voltage is less than 6.0Vdc.
- 3. Open Circuit Voltage (OCV) measured after battery has sat without charging or discharging for more than 24 hours.
- 4. Voltage of 5.7-6.0Vdc might be enough to start up a console, but the battery life has been compromised and might not accept a charge.
- 5. Make sure that batteries are being properly charged in our applications. This means an average workout (above 50RPM's) time of at least 15 minutes.

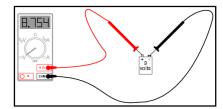




Multimeter Use - Measuring Voltage

DC Voltage

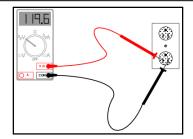




Note that the two test leads are plugged into the appropriate sockets on the meter for voltage, and the selector switch has been set for DC "V", indicated by a straight line & dashed straight line

AC Voltage





Note the placement of the selector switch, it is now turned to AC "V" and indicated by a wavy line.

CAUTION:

DO NOT CONTACT THE PROBE WHILE IT IS CONTACTING A POINT IN THE SOCKET A POSSIBILITY OF ELECTRIC SHOCK EXISTS.

20





Preventative Maintenance PowerMill Process

Sprocket and Chain Alignment Process

"The Job Aid"

The Job Aid is Essential to Perform the **Sprocket and Chain Alignment Process**



Chain Alignment Process Job Aid Link



Printing Instructions

Print in "Landscape" orientation

Print on 8.5 x 11 paper

Print on both sides of the paper





Preventative Maintenance PowerMill Process

The Sprocket and Chain Alignment Job Aid Follow the 4 Step Alignment Checklist

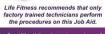












14

For additional information, parts or service, our at 1-888-PLANETS (888-752-6385) or planetfi

Loosen bolts 1 & 2 (do not remove) on the upper axle pillow block bearing only.



(I) LIFEFITNESS



Multimeter Familiarization and Use



~	AC Voltage	=	Ground
	DC Voltage		Capacitor
Hz	Hertz	μF	MicroFarad
+	Positive	μ	Micro
_	Negative	m	Milli
Ω	Ohms	M	Mega
→	Diode	K	Kilo
•)))	Audible Continuity	OL	Overload

These symbols are often found on multimeter and schematics.

They are designed to symbolize components and reference values.





Electrostatic Discharge (ESD) Principles

To prevent ESD damage in Electronics, we need to decrease the potential difference between our body and the electronics we are contacting. For this, we can use protecting tools, such as...

- ♦ Grounded strap to wrist
- ♦ Special grounded floor surface
- ◆ ESD/Anti-Static bags





)) LIFEFITNESS



- Always close and stick down the Anti-Static/ESD bag. If the bag is open, it then only provides about 70% protection from ESD. Store parts in bag until properly grounded and ready for use.
- Do not touch the electronic components on the PCB directly





Preventative Maintenance PowerMill Process

The Job Aid and Video are Essential to Perform the PowerMill Preventative Maintenance Process



Job Aid Link PowerMill PM Process



QR Code



Printing Instructions

- ☐ Print on 11 x 17 paper
- ☐ Print on both sides of the paper
- Fold in half to make a book





Preventative Maintenance PowerMill Process "The Job Aid" Follow the Pages & Follow the Steps





