

L-10 Treadmill Service Manual Endurance and 9" Display Consoles



L⁴NDICE

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Landice Service Warranty Policy

<u>PARTS</u>

Our policy requires that defective part(s) need to be returned back upon Landice discretion. All warranty part(s) that are required back will be billed to the Service Provider if not returned within 30 days. Landice will adjust the invoice off the account once receipt of any defective part(s) they have been returned. Landice will provide return freight tags (ARS tags) for all parts required back. It is our policy to ship all parts UPS ground. Any expedited shipments will need Landice approval.

LABOR

Landice will reimburse the selling dealer or service provider according to our labor rate schedule. If you are a service provider for Landice and do not sell our product, you have the option of billing us directly or you can bill back the selling dealer. Generally, if our capped rate does meet the service provider rate then the remaining balance will be the actual selling dealer responsibility. The labor rate only covers one service call per issue, diagnostic trips and return trips is not covered under our labor warranty policy. Treadbelt and drive belt tracking, tensioning, and set-up procedures will not be covered under our labor warranty policy as well. **Set-up includes** Assembly, adjusting treadbelt and drive belt (if needed), walking the treadbelt and deck wax in and performing any additional adjustments that may have been upset during shipping.

The dealer must call for a service authorization number (SA#) **prior** to performing any service to verify the treadmill is under labor warranty and to get troubleshooting advice. It is advisable to call Landice from the customer's location in order to successfully diagnose the problem and this will ensure that the correct part(s) is shipped out the first time. Labor claim forms must be submitted within three months from the date of service was performed. All labor claim forms must be filled out completely and have the Landice authorization number at the top and including customer's signature at the bottom of the claim form.

FLOOR MODELS

The following warranty applies to floor models and dealer stock. If the dealer sells a treadmill to a customer within one year of its purchase from Land ice, the warranty period will be extended to start from the date of sale to the customer. If a treadmill is over 1 year old when sold to a customer, the remainder of the parts warranty will be honored from the date of shipment not sale and will not have a labor guarantee.

Landice Labor Warranty Policies are subject to change without notice.



Service Claim Form

(Submit completed form to service@landice.com or fax to 973-927-0630)

DEALER INFORMATIO	N				
Service Dealer/Dealer N	ame:				
Address:	_				
City:		State:	904 905	Zip:	
Phone:	_ Fax:		Email:	9	
Contact Name:			Contact Phone #	ŧ:	
CUSTOMER INFORMA	ΓΙΟΝ				
Customer Name:					
Address:					
City:		State:		Zip:	
Phone Number:		. –	Contact:		
Treadmill Info	Elliptica	al Info	Bike Info		
Model Type:			Date of Se	ervice:	
Frame Serial #:			Date of Purc	hase:	
DCP Serial # (if applicab	ble):				
Out of Box Problem:	Yes:		No:		
CUSTOMER COMPLAI	NT:				
SERVICES PERFORME	D/PARTS REPL	ACED:			
	T T'		Labor Theore		
TRAVEL/LABUR:	Travel Time:		Labor Time:	TOTAL TIME	
VALIDATION SIGNATU	RES:				
Service Rep Signature:				Date:	
Customer Signature:				Date:	
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DO NOT SUBMIT SERVICE CLAIMS WITHOUT SERVICE AUTHORIZATION NUMBERS.

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Operation and Safety Instructions:

Safety Information -To reduce the risk of electric shock: always unplug the treadmill from the electrical outlet immediately after using and before cleaning.

Always unplug the treadmill before cleaning or removing the motor cover.

Improper connection of the grounding connector can result in risk of electric shock. Check with a qualified electrician/service technician if you are in doubt as to whether the treadmill is properly grounded. Do not modify the plug provided with the treadmill. If the plug will not fit in the outlet, have a proper electrical outlet installed by a qualified electrician.

To reduce the risk of burns, fire, electric shock or injury to persons:

- An appliance should never be left alone or unattended when plugged in. Unplug from outlet when not in use and before putting on or taking off parts.
- Close supervision is necessary when the treadmill is in use or near children or persons with disabilities.
- Use the treadmill only for its intended use as described in this manual. Do not use attachments not recommended by Landice.
- Never operate treadmill if it has a damaged cord or plug, if it is not working properly, or if it has been damaged. Call your dealer or certified service provider immediately for examination and repair.
- Keep the power cord away from heated surfaces. Be sure the cord has plenty of slack and can not be pinched under the treadmill when it elevates and de-elevates.
- Never operate the treadmill with the motor cover air openings blocked. Keep the air openings free of lint, hair, dust, or debris.
- Do not drop or insert objects into any opening on the treadmill. Be sure no objects are near or beneath the treadbelt when you are using the treadmill.
- Do not use treadmill outdoors.
- Do not operate treadmill where aerosol (spray) products are being used or where oxygen is being administered.
- To disconnect, press **STOP** twice, pull the safety lanyard out, then remove plug from outlet.



Operation and Safety Instructions:

Failure to observe the following warning statements can result in serious injury!

• Do not use this product without first consulting your doctor if you suffer from any illness, condition, or disability that affects your ability to run, walk or exercise.

• Do not use this product without supervision present if you are suffering from any illness, condition, or disability which affects your ability to run, walk or exercise. Failure to do so can result in serious injury should you fall while the treadbelt is moving.

• Failure to leave ample clearance around the treadmill could cause you to be trapped between the treadmill and a wall if you fall, resulting in burns or other serious injury from the moving treadbelt. Allow a minimum clearance of 18 inches (46 cm) on each side of the treadmill. Allow a minimum clearance of 6 feet (183 cm) at the rear of the treadmill.

• Never stand on the treadbelt when starting the treadmill. A sudden start could cause you to lose your balance. Always begin by placing your feet on the side traction strips, straddling the treadbelt, before turning the treadmill on.

• Always wear the safety lanyard clip securely on your clothing while exercising. Failure to do so can result in severe injuries should you accidentally fall while exercising.

• Test the emergency stop safety lanyard regularly by pulling on the cord and ensuring that the treadbelt comes to a complete stop when key is pulled.

- Familiarize yourself with this manual. Be sure you understand operation of the treadmill before use.
- Always follow basic safety precautions when using an electrical appliance.

Connect treadmill to a properly grounded, dedicated electrical outlet only. See the following Grounding Instructions.

Do not plug treadmill into a surge suppressor or Ground Fault Interrupt (GFI) outlet.



Electrical Requirements

Landice requires that a dedicated circuit be wired for each piece of Landice equipment. For optimal performance, DO NOT plug equipment into an AFCI or GFI circuit breaker/outlet. Adapters or extension cords should not be used.

Treadmills marked 120 VAC are intended for use with a grounding plug in a nominal 120-volt circuit. Ensure the treadmill power cord is connected to an outlet having the same configuration as the plug.

Treadmills marked 200-250 VAC are intended for use on a circuit having a nominal rating greater than 120V and are factory-equipped with a specific power cord and plug to permit connection to a proper electrical circuit. Ensure the treadmill power cord is connected to an outlet having the same configuration as the plug. No adapter should be used with 200 – 250 VAC treadmills. If the treadmill must be configured for use on a different type of electrical circuit, qualified service personnel should make the proper

For 220v & 110v units using 3-phase voltage:

- Each treadmill must have its own circuit breaker and be run on the same phase; same power leg.
- If 220v power is required, all treadmills must run on the same two phases (power legs) and on their own circuit breakers.

<u>L10 Requirements</u> L10 Treadmills are rated for 110 (120) VAC, 60 Hz, 20 AMP (uses a 20 amp plug, receptacle and breaker) or 220 VAC, 60 Hz, 10 AMP (uses a 15 amp plug, receptacle and breaker).

L10 Club 110v Electrical Requirements

Plug NEMA Style 5-20P Receptacle NEMA Style 5-20R



L10 Club 220v Electrical Requirements

<u>Plug</u> NEMA Style 6-15P <u>Receptacle</u> NEMA Style 6-15R



Multimeter Instructions

Using Your Multimeter

A Multimeter is a device used to measure a variety of electrical functions. The multimeter best suited to diagnosing a treadmill will be able to measure AC and DC voltage, as well as Ohms and electrical continuity.



Make sure the batteries in your Multimeter are fresh before you begin!

 Vac – Alternating Current reverses polarity from plus (+) to minus (-). For the L10 Treadmill, you can test Vac coming from the outlet into the unit, and from the lower board into both the elevation motor and the drive motor.
 Vdc – Direct Current only flows in one direction, and provides a constant voltage over time. L10 Treadmills do not use DC.

Ohms – The electrical resistance of a component or conductor measured in ohms. You can check the condition of a potentiometer or line cord by measuring the ohms.

Continuity – Electrical Continuity is the continuous, uninterrupted flow of electricity. You will use continuity to check fuses, wire harnesses and pins for any interruption. You can also use it to perform a membrane bypass test (where applicable).

Measuring AC & DC Amperage:

AC Amperage must be performed on the **<u>BROWN WIRE</u>** of the line cord. DC Amperage must be performed on the <u>**BLACK WIRE**</u> from the drive motor.



PERFORMING AMPERAGE INSTRUCTIONS

Start by clamping your meter to the wire. While straddling the belt, start the treadmill and bring the speed up to 3.0 mph at 0% elevation. Once the treadmill is up to speed start walking on the treadmill while looking at the voltmeter. The voltmeter will start giving you an amperage reading. The average highest reading possible equals your amperage reading. The more friction between treadbelt and deck, as well as the heavier the load on the belt, the hotter the treadbelt will become, which will increase your amperage reading.

USE THE CHART BELOW TO DETERMINE THE TREADBELT CONDITION

AC Amperage	DC Amperage	Treadbelt Condition
2.0-4.0 AC Amps	4.5-6.0 DC Amps	Good
4.1-5.9 AC Amps	7.0-9.0 DC Amps	Normal
6.0-10.0 AC Amps	9.0-12.0 DC Amps	Replace

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Maintenance Checklist

Weekly Maintenance:

• Wipe down display. Use mild solution of non-phosphate cleaner on damp microfiber cloth.

• Wipe down handrails and traction strips with soft cotton cloth and mild soap and water. Cloth should be damp not wet.

• Vacuum or wipe down the deck area between treadbelt and frame, including the visible part of the rear roller.

• Clean treadbelt walking surface: Vacuum treadbelt to remove loose dirt. If vacuuming does not remove dirt, Landice recommends the use of a medium stiff nylon bristle brush to remove dirt trapped in treadbelt surface. A damp (not wet!) sponge can be used to finish the cleaning process.

Monthly Maintenance:

• Take off motor cover and vacuum. Be careful not to touch any of the circuit boards.

• Turn on the treadmill. Elevate treadmill to 15%. Turn off the treadmill. Vacuum under and around the treadmill. Turn on the treadmill and return to 0% elevation.

- Examine the deck and treadbelt for wear and replace if necessary.
- Check condition of line cord for any cuts, gouges, or broken prongs on the plug ends.

Every Six Months:

• Check all nuts and bolts for tightness, especially the upright bolts and handrails.

You can also perform an amperage check to see if the treadbelt is dragging excessively and thus drawing excessive current as follows:

- 1.Install AC clip-on ammeter around hot lead on line cord.
- 2.Turn treadmill ON and increase speed to 3.0mph.
- 3.Let speed stabilize and record the AC amperage.

4.Decrease speed to 1.0mph and have a person weighing at least 150 lb step onto the treadbelt. 5.Increase speed back up to 3.0mph.

6.Let speed stabilize and record the AC amperage. Compare the two readings.

Note: Current draw for a new or well-maintained 110V treadmill with a 150lb load at 3mph will be approximately 6A, for 220V units it will be approximately 3A. If the load is higher than 150lb, then adjust the amperage upward., if load is lighter the amperage draw will be less. Example 200lb load @3mph=8amps.

If the loaded current draw is substantially greater than the unloaded reading, then the treadbelt and deck system is wearing and may need replacement.

Static Electricity: What to Look For

- Static electricity can be generated from many sources. While a shock may occur occasionally while using the machine and is normal, it can lead to issues with the treadmill's components. Here are the most commonly found sources of Static Electricity:
 - Treadmill placed on carpet When you use your treadmill directly on a carpet, it is far more prone to static build up. Instead, install a rubber treadmill mat (LANDICE #73062) underneath the machine. This will help reduce static buildup.
 - Dry Climate & Lack of Humidity Whether it's the winter months, or you live in a dry location, static buildup is more likely to occur low humidity environments. You can compensate for this by using a humidifier in your treadmill's location.
 - Dehydration and Dry Skin- Your own level of dryness can lead to static buildup. If you are dehydrated while working out, dry skin will increase risk of static buildup. You can combat this by drinking more water, and using moisturizer as needed on dry areas of the skin.
 - Your workout clothing and shoes The type of material used in your workout clothes can make a world of difference when it comes to combating static buildup. Synthetic materials like Polyester, Spandex, and Acrylic fiber will build up static electricity much faster. Instead, use natural materials like Cotton in your workout clothing.

Likewise, if your shoes are worn down, you will **dramatically** increase the chance of static buildup. Check the tread of your shoe, and replace them if they are worn down.

- Worn out parts The condition of the treadbelt, deck and motor brushes can all increase the risk of static buildup. Do monthly maintenance such as vacuuming under the motor cover. Use Simple Green to wipe down the deck, hand rails and display. Check the treadbelt tension, and look for cracks or fraying. A Landice Authorized service provider can help to do a full diagnostic on your treadmill for a fee.
- Using Surge Protectors, Extension Cords Landice requires plugging directly into a dedicated outlet. Using a surge protector or extension cord increases resistance on the flow of power, meaning increased stress on electrical components and premature failure, as well as the increased risk of static shock.



Treadmill Specifications:

L10-Club Treadmill Specifications	
Model	L10
Display	Digital Display
Launch Date	Apr-2017
Mechanical Features	
Drive Motor	5HP AC Drive
Voltage	220
Speed Range	0.5 - 15.5mph
Incline	0-15%
Treadbelt	22" x 60"
Frame Material	Steel
Deck	1" Reversible
Roller	3 1/2"
Cross Bar Controls	Yes
Side Rails	Yes
Fan	Yes
	Yes
Heart Rate	(Contact Heart Rate - Read Only)
Accessory Pockets	Phone, tablet and 2 water bottles holders
Step-up Height from Floor to Treadbelt	9"
Electrical Requirement	220 volt, 50/60Hz, 10 amps w/ Dedicated Line
Max User Weight	500 lbs.
Product Weight	460lb
Shipping Weight	600lb
Dimensions	83" x 34" x 64"
	10 Year - Frame
	5 Year - Parts
	90 days - High Wear Items (USB port)
Warranty	1 Year Labor
Certifications	UL, CAN, CE
Console	
CSAFE lack	Yes (External on the side of display)
	Bracket with BVE TV (Ontional)
ТV	Coaxial cable or HDMI jack located on upright leg
	Yes
USB Port	(Charging capability)

Electrical Schematic:





Upper Consoles:



PST-7/CT-7 - 9" DISPLAY





Motor Pan Components:



Lower Board (Inverter-Wiring)

- 1) From Lower Board (Inverter) to Display
- 2) From Lower Board (Inverter) to Elevation Motor
- 3) From Filter to Lower Board (Inverter) Black and Red, wires power the Inverter.
- 4) From Lower Board (Inverter) to Drive Motor



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Motor Pan Components:



Remote Control Console:

Remote Console Pin/Wire harness designations on L10 Treadmill.

Pins 2-7 are for Reading Switched, Pins 1, 8, and 12 are Power Pins, Pin 9 is Safety Key, and Pins 10 and 11 are the two Heart Rate Inputs.

The 12 pin Remote Console connector pinout: Pin1 GND1 (Output) Ground Pin2 P0.0 (Input) Speed up Switch Pin3 P0.1 (Input) Speed down Switch and Stop Switch Pin4 P0.2 (Input) Incline up Switch and Start Switch Pin5 P0.3 (Input) Incline down Switch Pin6 P2.70 (Output) Switch Common for Speed and Incline Switches Pin7 P2.40 (Output) Switch Common for Start and Stop Switches Pin8 +5VF (Output) 5Volt power for Heart Rate boards Pin9 CEO (Input) CE Safety switch Pin10 INT1 (Input) Heart Rate from Wireless Pin11 Pulse (Input) Heart Rate from Handgrips Pin12 GND (Output) Ground





Remote Control Console:





Error Code & Diagnostics - Endurance Console:

Note: A logs of recent error codes are found in the Engineering Mode.

1.) ER01 - Communication Error

- > Communication disruption between the inverter and the upper control board:
 - The inverter sends a signal to the upper control board every 1.5 seconds to check to see if they are still in communication with each other. If no response, the inverter shuts the AC motor down.
 - The code **CE10** appears on the display after the communication is reestablished
- > The potential reasons for the communication disruption could be:
 - A faulty display board
 - A faulty inverter
 - Faulty cabling

2) ER02 – Incline Motor Error

- Loss of elevation calibration from the elevation motor to the upper display board. Or no movement from elevation motor.
 - Check for loose wires or connections. Run the Auto Calibration process to re-calibrate the elevation pot.
 - If no movement from elevation motor, check wires and connections from elevation motor to inverter board. If elevation wire is damaged, replace Elevation Motor.
 - Check harness wires from Inverter Board to Upper Board, if loose or damaged wire found, replace the Upper Harness.

3) ER03 – Safety Key/Replace Safety Key

- The Upper display board monitors the safety circuit and flags this condition when the safety is pulled. Always check that the safety key is pushed in before proceeding.
- Potential reasons for this error are:
 - Faulty Safety circuit
 - Faulty cabling

Faulty Display Board

4) ER04 - (Also OL) AC Motor Over-Current Error

- The inverter monitors the AC motor in order to determine the amount of over current.
- It also monitors the amount of time that the current is over the maximum limit. The standard maximum limit is 150% of the rated current of the motor (which for the drive motor the rating is 7 amps). For the error code **(OL)** to come up, the motor would have to be over loaded for over 60 seconds. The inverter would then shut down the AC drive motor.
- > The potential reasons for an AC motor over-current condition could be:
 - Failure of one or more of the internal motor components (bearings, rotor, stator windings, etc.)
 - Excessive load on the AC drive motor putting excessive loading onto the motor (Friction in the belt and deck, bad roller bearing, etc.)
 - Note- a Heavy Person walking at slow speeds may cause this error due to the extra load. The same is true for a heavy person who is running at high speeds.



Error Code & Diagnostics - Endurance Console:

5) ER05 - AC Motor Voltage Error

AC Motor voltage monitoring

The inverter can monitor the motor voltage and determine if it's receiving too much or too little voltage

- > The potential reasons for an AC motor low or high voltage:
 - Inverter malfunctioning
 - City voltage too low or too high

6) ER06 - AC Motor Over Load Error

- > The display will show **ER06** when the AC motor's thermal sensor pops
- > The potential reasons for an AC motor over-load condition could be:
 - Failure of one or more of the internal motor components (bearings, rotor, stator windings, etc.)
 - Excessive load on the AC drive motor putting excessive loading onto the motor (Friction in the belt and deck, bad roller bearing, very heavy person, etc.)
 - Note- a Heavy Person walking at slow speeds may cause this error due to the extra load. The same is true for a heavy person who is running at high speeds.



Troubleshooting & Diagnostics:

OTHER TROUBLESHOOTING:

Display will not turn on when Start is pressed

- 1) Check for correct power voltage at the power outlet.
- 2) Check for power at the end of the power cord.
- 3) Check the On/Off switch to be "ON" position and switch lit.
- 4) Check to see if the Circuit breaker tripped. If the breaker tripped reset it, and locate the part that is causing the short.
- 5) Check for power from Filter to Inverter. Black and Red wires power the Inverter.
- 6) Check the connection from the Inverter to the Upper Display is secure.
- 7) Check for power out of the connector at the Upper Display. If less than 12vdc replace inverter.
- 8) Check if the Console LED is lit. If it's not lit, then replace the display.

RUNNING SPEED NOT STABLE:

- 1) Check for correct power (110 or 220 VAC) at the power outlet. Low voltage will cause speed to be unstable.
- 2) Check the Drive belt for any damage and the tensioner is working correctly.
- 3) Check the Treadbelt is correctly tensioned, not slipping, and not worn out.
- 4) Check the Deck for any damaged or worn out.
- 5) Check the inverter is not damaged and is sending the proper voltage to the Drive Motor
- 6) Check the Drive Motor is operational
- 7) Rarely the Display will fail and cause the problem.

CONSOLE BUTTONS DO NOT RESPOND TO COMMANDS:

- 1) Check connection between the keypad (membrane) and the Display are secure. Replace whichever component is faulty.
- 2) Look for visible damage to the keypad. Replace if damaged.
- 3) Check if any of the buttons feel depressed or "stuck". Replace Display if any found
- 4) If everything checks out fine, then replace the Display.



Display Options - Endurance Console:

TURN OFF BEEP SOUND:

- 1) The beeper is set to ON by default. When a button is pressed on the display or the mini-pod a beep will sound.
- 2) To turn off the beeper: Press the Start button, and when the mill starts to boot up, press Incline "Down" (-) button and START button on the display to turn off the beeper. Reverse to turn back on the beeper.

CHANGE FROM ENGLISH TO METRIC MEASUREMENTS:

- 1) Press Start to turn on treadmill.
- 2) Press and hold Incline down (-), Speed down (-) and Start at the same time and hold down till display shows ENG or MET.
- **3)** To change from one to the other press the **STOP** key. Press **ENTER** to save changes. Next it will display voltage choice (110v or 220v). To change press **STOP**, to save press **ENTER**.

ACCESS TOTAL MILES & HOURS:

To enter engineering mode:

- 1) Start machine and then pull the safety key out
- 2) Press Speed Keys + (plus) and (minus) simultaneously and count 3 seconds.
- 3) Push the safety key back and then release the + and keys.

PO1 should appear on the screen. To change between screens, press the **ENTER** key. To exit Engineering mode, press **STOP** key and restart the treadmill.

To access hours go to **PA08.** To access miles go to **PA09.**

Engineering Mode - Endurance Console:

FOLLOW THE STEPS BELOW TO ENTER ENGINEERING MODE :

- 1) Start machine and then pull the safety key out
- 2) Press Speed Keys + (plus) and (minus) simultaneously and count 3 seconds.
- 3) Push the safety key back and then release the + and keys.

PO1 should appear on the screen. To change between screens, press the ENTER key. To exit Engineering mode Press STOP key and restart the treadmill.

LISTING OF ENGINEERING OR PARAMETERS SETTINGS:

PO1- Mini Speed (Minimum Speed) should be set to .5mph ENG
PO2- Max Speed (Maximum Speed) should be 15.5 mph for 220v, 12.5mph for 110v models
PO3- Max Incline (Maximum Incline) should be 15
PO4- Speed Accel Time (Speed Acceleration Time) Set to 1.2
PO5- Speed Decel Time 1 (Speed Deceleration Time) Set to 1.2
PO6- Speed Decel Time 2 (Speed Deceleration Time) Set to 2
PO7- Wheel -Set to 4.3
PO8- Total Time- Amount of Time the Treadmill is running
PO9- Total Distance- Distance the belt has traveled
PO10- Error Code Log- Previous Error
PO11- Error Code Log- Previous Error
PO12- Error Code Log - Most recent Error



Display Options and Diagnostics- 9" Display Series Console:

TO ENTER ENGINEERING/DIAGNOSTIC MODE:

Press and hold 3, 9 Start until the following screen comes up:

C	ARDIO TREADMILL HIDDEN MENUS Use +/- to select menu. Press START to run.	+
	ERROR LOGS	
	NV INIT - BOOT	
	DIAGNOSTICS	
	REPROGRAM FIRMWARE	and the second second
	SELF DIAGNOSTICS	
	TOGGLE LOCKOUT MODE	
	TOGGLE UNITS	
		STAL

Use the +/- keys to scroll through menu, START button to enter into mode. The STOP button will go back to the menu.

Error Logs - Will show any errors the unit has registered while in operation.

NV Init Boot - Shows the software version of the treadmill.

Diagnostics – This screen will show the speed sensor readout, elevation pot readout, as well as other operation information.

Reprogram Firmware – Only to be used when updating the system software, please see the **Instructions to Install Software Update – 9" Display Series** for more information.

Self Diagnostics – The treadmill will auto diagnose and report any issues the software has found. Treadbelt and elevation motor may move during this process.

Toggle Lockout Mode: Enables or disables Lockout Mode, which will request a 4 digit pin to use the unit. **Toggle Units:** Switches between Metric and English

Toggle Beeper: Enables or disables beeping function during operation and key press.

Toggle User Presence: Should be disabled by default. DO NOT ENABLE!

Toggle Client Mode: Enabled by default for residential models, disabled on commercial units. Allows 2 user profiles that keep track of statistics while using the treadmill.





PLEASE CALL LANDICE TECHNICAL SERVICE 1-800-526-3423, OPTION 3 FOR FURTHER ASSISTANCE

Membrane/Display Panel Removal & Installation Instructions:



Membrane Panel/Display Removal & Installation Instructions:



Using a Phillips Head Screwdriver, remove the (10) Phillips Head Screws connecting the membrane to the display board. Disconnect the Membrane Panel Ribbon Connector from the display board. Remove the display board away from the membrane panel, being mindful of the LCD screen.

Simply reverse the instructions to reinstall the membrane & display board.

Remote Console Removal & Installations Instructions:

INTRODUCTION:

This document is to be used for removal/installation of the Remote Console (#75020)

TOOLS REQUIRED: • Phillips Head Screwdriver

BEFORE YOU BEGIN: Disconnect the power source before removing the remote console.

Step 1



Lift and remove the accessory tray cover located between the display and remote console to access the remote console wiring, as shown in Illustration A. Carefully disconnect the primary ribbon harness and wireless heart rate cable, as shown in Illustration B.

Step 2



Using the cross tip screwdriver, remove (4) M4-16 cross head screws and (1) M4-10 screw, as shown in Illustration C. With the remote console removed from crossbar assembly, turn console over and remove (4) M3-10 cross head screws, as shown in Illustration D.

Remote Control Console Removal & Installations Instructions:



Proceed to remove the remote console trim plate, allowing access to circuit board connections (Illustration E). Carefully disconnect the contact heart rate and wireless heart rate (optional with Club PT and PST) from the circuit board, as circled in Illustration F.



TO INSTALL, REVERSE THE FOLLOWING STEPS ABOVE!

Motor Cover Removal & Installation:

INTRODUCTION: This document is for installation and removal of the motor cover (#10045).

TOOLS REQUIRED: 4mm Allen Wrench



Using a **4mm** Allen Wrench, loosen and remove three Allen head bolts, one in the motor cover, and two holding the upright base cover in place, as shown in Illustration A and B. Once you remove the bolts, proceed to remove the covers on each side.



Using your **4mm** Allen Wrench, remove the 2 Allen head bolts, as shown in **Illustration C**. Repeat the same process on the other side. Once done, you can now remove the motor cover as shown in **Illustration D**.

Side Frame Cover (Traction Strip) Removal & Installation:

INTRODUCTION: This document is to be used for installation and removal of the Side Frame Covers (Traction Strips - #10046) 4mm Allen Wrench **TOOLS REQUIRED:** 1/2" Wrench • **BEFORE YOU BEGIN:** You will need to remove the motor cover, upright base cover, and the bed end caps before you can remove the side frame covers. Step 1 Using your 4mm Allen Wrench, loosen and remove the two bolts holding the bed end caps in place. Once the bolts are removed, proceed to remove both bed end caps. Step 3 Step 4 Using your ¹/₂" Wrench, loosen and remove all Using your 4mm Allen Wrench, loosen and remove the bolt from the top of the side frame three side frame bolts located underneath the side frame of the treadmill. cover.



Side Frame Cover & Traction Strip Removal & Installation:



mounting holes on the frame. To install, follow the instructions in reverse.



Drive Roller Removal & Installation:

INTRODUCTION: This document is to be used for the installation and removal of the Front (Drive) Roller (#10028).

TOOLS REQUIRED:

- 5mm Allen Wrench
 ¹/₂" Socket Wrench
- Socket Wrench

BEFORE YOU BEGIN: You will need to remove the motor cover, upright end cover caps, and side frame cover to gain access to the drive roller. Please refer to the instructions for both **Motor Cover Removal** and **Side Frame Removal** if you need assistance.





Using a ½" socket wrench, loosen and remove the front roller adjustment bolt, as shown in IllustrationA. Remove the bolt, washer and spring, and then remove the J-hook. Using a 5mm Allen Wrench, loosen and remove the bolt holding the drive motor in place, as shown in Illustration B.



With the bolts on both sides removed, you will need to remove the drive belt next. Work it slowly off the drive motor shaft, being careful not to damage the belt. You can then lift the drive roller out of the left side insert and remove the drive belt from the roller.



Drive Roller Removal & Installation:



Next, remove the drive roller from the right side insert, as shown in **Illustration C**. You can now remove the front roller from the machine, as shown in **Illustration D**.

Step 4



Remember to first place the drive belt around the drive roller and drive motor shaft, as seen in **Illustration E.** You can now place the drive roller in the left-side insert of the treadmill. The J-hook will face towards the treadbelt and is inserted through the drive pulley insert, as shown in **Illustration F.**

It is recommended to torque the drive roller adjustment bolt to 30 foot pounds. TO INSTALL, REVERSE THE FOLLOWING STEPS ABOVE!



Rear Roller Removal & Installation:

INTRODUCTION: This document is for the installation and removal of the Rear (Take-Up) Roller (#10029).

TOOLS REQUIRED:	•	4mm Allen Wrench
	•	5mm Allen Wrench

BEFORE YOU BEGIN: You will need to remove the bed end caps before you can

remove the rear roller.

Step 1



Using your **4mm** Allen Wrench, loosen and remove the two bolts holding the bed end caps in place. Once the bolts are removed on both sides, proceed to remove both bed end caps.

Step 2



Now that the end caps are removed, use your **5mm** Allen Wrench to loosen remove the two bolts holding the rear roller in place.

Rear Roller Removal & Installation:



Remove the rear roller from the treadmill. When installing, be sure to line up the rear roller axle with the frame inserts shown above. The treadbelt needs to be tensioned after rear roller installation. Please refer to our **Treadbelt Tensioning & Tracking** instructions for help with adjustments of the treadbelt.

TO INSTALL, REVERSE THE FOLLOWING STEPS ABOVE!

Treadbelt Tensioning:

Treadbelts are tensioned at the factory and normally need no adjustment. To determine if the treadbelt needs adjustment, perform the following test:

- 1. Set treadmill speed to 2MPH.
- **2**. Walk on the treadbelt and see if the drive roller is turning, but the belt is not moving. If the belt is not moving, then tension the treadbelt by tightening the treadbelt tensioning bolts ONLY until belt ceases to slip.

Using your 5mm Allen Wrench, tension both bolts of the rear roller 1/4 turn **CLOCKWISE** to eliminate this slipping. Try the treadmill again to check for slipping. Repeat if necessary, but **NEVER TIGHTEN** the roller bolts more than 1/4 turn at one time.

Perfect tension of the running belt is 0.9 to 1.1 lbs. of torque.

Treadbelt Tracking:

If the Treadbelt is tracking to the Right: Tighten the right bolt (clockwise), or loosen the left bolt (counterclockwise) using your 5mm Allen Wrench.

If the Treadbelt is tracking to the Left: Tighten the left bolt (clockwise), or loosen the right bolt (counter-clockwise) using your 5mm Allen Wrench.

Do not adjust either bolt more than ¼ turn at a time! Speed of Running Belt during adjustment should not exceed 3mph.

Treadbelt Removal & Installation:

INTRODUCTION: This document is for installation and removal of the Treadbelt (**#10023**) and flipping the Deck(**#10024**).

	•	4mm Allen Wrench
TOOLS REQUIRED:	•	5mm Allen Wrench

BEFORE YOU BEGIN: You will need to remove the motor cover, upright base cover, bed end caps, side frame covers, front, and rear rollers before you can remove the treadbelt. Please refer to the individual instructions for each if you need assistance.



Remove the front roller as shown in Illustration A. Remove rear roller as shown in Illustration B. Remove the (10) Allen bolts keeping the deck in place as shown in Illustration C.

Once the deck bolts are removed, you can now lift the deck up and rest it on the side frame, allowing you to slide the belt off the deck as shown in **Illustration D**.

If this is the 1st time replacing the treadbelt, you will need to flip the deck. If it is the 2st time replacing the treadbelt, you will also need to replace the deck.



Treadbelt Tracking & Tensioning



- If the Treadbelt is tracking to the left (Figure B): Tighten the left bolt (clockwise), or loosen the right bolt (counter-clockwise) using your 5mm Allen Wrench
- Do not adjust either bolt more than ¹/₄ turn at a time!
- Speed of Running Belt during adjustment should not exceed 3mph.



Deck Removal & Installation:

INTRODUCTION: This document is for removal and installation of the Deck (#10024). 4mm Allen Wrench • **TOOLS REQUIRED:** ¹/₂ Wrench **BEFORE YOU BEGIN:** You will need to remove the motor cover, upright base cover, bed end caps, and side frame covers before you can remove the deck. Please refer to the individual instructions for each if you need assistance. Step 1 LANDIC

Using your 4mm Allen Wrench, remove all (10) Allen head bolts securing the deck to the absorbers underneath.



Deck Removal & Installation:



Once the new treadbelt is replaced and the deck has been flipped, then place the assembled belt and deck on the treadmill, and reverse the instructions to finish installation. (The arrows in the illustration below will show you where to replace the deck bolts)

L₂NDICE

Impact Absorbers Removal & Installation:



Once the deck has been removed, take note of the placement of each absorber, and where the empty spaces are. As you can see in the picture above, there are both blue and black absorbers. In addition, the blue absorbers have a corresponding washer, black absorbers do not. Finally, there is one blue absorber on each side that does not have a top deck screw, they are circled above.



Absorber Installation/Removal Instructions

Step 2



Using your 13mm wrench, loosen and remove the serrated nut attached to the bottom of the absorber. It may be helpful to use the socket attachment for some of the absorbers. Remove the washer from the blue absorbers.

Step 3



Once you have removed all the absorbers, simply reverse the steps shown here to install. Please use the illustration in Step 1, to install the impact absorbers.

Drive Motor

Drive Motor Installation/Removal Instructions

INTRODUCTION: This document is for installation and removal of the AC Drive Motor (#10037).

Tools Required:

13mm SocketSocket Wrench

4" Socket Wrench Extender

BEFORE YOU BEGIN: This is a high voltage AC unit. Please turn off and remove power from the treadmill before removing or installing parts.



Carefully disconnect the drive motor harness from the lower board (inverter), then remove the drive motor harness from where it is routed in the motor pan.

Step 2



Carefully work the drive belt off the drive motor shaft. Then, using the 13mm socket wrench, remove all 4 mounting bolts holding the drive motor in place. We recommend using a 4" socket wrench extension for easier access.



AC Drive Motor Removal & Installation:

Drive Motor Installation/Removal Instructions





Locate the 4 brass threaded inserts in the motor pan. Install the drive motor in the motor pan, aligning the motor bracket with the 4 brass threaded inserts.





Assemble all (4) bolts with the flat metal washer and rubber grommet as shown in the illustration above. Using this hardware, proceed to mount and secure the drive motor to the motor pan. Then, use the 13mm socket wrench to secure and tighten all 4 motor bolts to the motor pan.

Simply reverse the instructions to finish installing the drive motor.

Part Number: (Drive Motor 110v/220v - #10037)



Drive Belt Installation & Removal

Drive Belt Installation/Removal Instructions

INTRODUCTION: This document is for the installation and removal of the drive belt (#10030)

TOOLS REQUIRED:

5mm Allen Wrench
½" Socket & Socket Wrench

BEFORE YOU BEGIN: You will need to remove the motor cover, upright end cover caps, and side frame cover (Left Side Only) to gain access to the drive belt. Please refer to the individual instructions for both Motor Cover Removal and Side Frame Removal if you need assistance.

Step 1



Using a ¹/₂" socket wrench, loosen and remove the front roller adjustment bolt, as shown in **Illustration A**. Remove the bolt, washer and spring, and then remove the J-hook. Using a 5mm Allen Wrench, loosen and remove the bolt holding the drive motor in place, as shown in **Illustration B**.



With the bolts on both sides removed, remove the drive belt next. Work it slowly off the drive motor shaft, as shown in **Illustration C**, being careful not to damage the drive belt. You can then lift the drive roller out of the left side insert, and remove the drive belt from the roller, as shown in **Illustration D**.

It is recommended to tighten the drive roller adjustment bolt to 30 foot pounds. To install the drive belt, please reverse the steps shown here.

Elevation Motor Removal & Installation:

Elevation Motor Installation/Removal Instructions

INTRODUCTION: This document is for installation and removal of the Elevation Motor (#10064).

WARNING: THIS IS A HIGH AC VOLTAGE SO BE SURE TO UNPLUG THE TREADMILL

TOOLS REQUIRED:

- 13mm Socket Wrench
- 5/8" Wrench
- Phillips Head Screwdriver

BEFORE YOU BEGIN: Please turn off and remove power from the treadmill before removing or installing parts. It is also helpful to have something to prop up the front of the treadmill before removing and installing the Elevation Motor.



Place a block or something solid underneath the front of the treadmill, allowing you access to underneath the motor pan, as shown in **Illustration A**. Then, disconnect the elevation harness connector from the Lower Board (Inverter) as shown in **Illustration B**.



Using the Phillips head screwdriver, remove the screw securing the harness cable to the motor pan, as shown in **Illustration C**. Then, use the 13mm socket wrench to hold the nut in place, and use the 5/8" wrench to remove the bolt, as shown in **Illustration D**.

Elevation Motor Removal & Installation:



Underneath the motor pan, use the 5/8" wrench to remove the nut and bolt connecting the elevation shaft to the leg assembly, as shown in **Illustration E**. Remove the elevation motor, as shown in **Illustration F**.



To Install, reverse the steps shown here to finish installation. It is recommended to partly tighten the trunnion bolt first, as shown in Illustration G. Then, adjust the shaft of the elevation motor to align with the holes in the elevation leg assembly, as shown in Illustration H. Next, slide the bolt through the elevation legs and then tighten fully. Finally, return to the trunnion bolt and finish tightening, as shown in Illustration I.



To calibrate the elevation motor: Start the machine. Pull out the Safety Key, as shown in Illustration J, until the display shows the version #, as shown in Illustration K. Push the safety key back in, and hold the Incline + and Speed + buttons, until the screen changes to Auto Adjust, as shown in Illustration L. The auto calibration process will then begin.

CAUTION- The Treadmill will incline and decline by itself during this process!



Inverter Board (Lower Board) Removal & Installation:

Inverter Board (Lower Board) Installation/Removal Instructions

INTRODUCTION: This document is to be used for installation/removal of the Inverter board(#10011).

TOOLS REQUIRED:	 Phillips Head Screwdriver Cordless Screw Gun w/ Phillips Head Tip
-----------------	------------------------------------------------------------------------------------------------

BEFORE YOU BEGIN: Power off the unit and unplug from power source before removal.

Step 1



With the unit powered off, remove each connected harness from the inverter board (Lower Board). Be careful not to yank on the connector tab, as it can break if forcefully removed.



Using a Phillips head screwdriver, remove the 2 screws mounting the lower board to the dust-shield. Remove the two screws mounting the lower board to the motor pan.





harness connects on the lower board.

Landice Vision System Installation Instructions:

LVS Installation Instructions

INTRODUCTION: This is to be used for installation of the Landice LVS Vision System.

- 4mm Allen Wrench
- Phillips Head Screwdriver
- ¹/₄ Metal Drill Bit & Cordless Drill
 - Wire Guide

BEFORE YOU BEGIN: You will need to unplug the treadmill and remove the motor cover before installation. Please refer to the instructions <u>Motor Cover Removal & Installations</u> if you need help with the removal of the motor cover.





Disconnect the Red and Black wires from the Line Filter as shown in Illustration A. Using the brass splitters, connect the splitter to Line Filter. Reattach the Red & Black wires to each bottom splitter, and then connect black and white power wires as shown in Illustration B. Using the Interlocking Velcro adhere one piece to the top of the Line Filter, and the other piece to the bottom of the AC Transformer. Once the Velcro is installed interlock both the AC Transformer and the Line Filter together as shown in Illustration C.



LVS Installation Instructions:



Using a Phillips Screw Driver loosen and remove all (3) Phillips Head Screws, then the reading rack, and finally remove the display assembly from the control console as shown in **Illustration A**. Using a 4mm Allen Wrench, loosen and remove all 4 (M6x75) button head cap screws holding the control console to the upright. Carefully remove the control console from upright, being mindful of the wires in the console as shown in **Illustration B**. Using a harness guide wire tie, snake the AC power cable down through the upright assembly and proceed to connect the female end to the male end of the AC transformer. Using the same guide wire tie, proceed to run the HDMI or the Coaxial cable through the upright as shown in **Illustration C**. Once the cables are routed, reinstall the console by following **Illustration B**.

"ENSURE ALL WIRES ARE ROUTED AWAY FROM FAN AND RELATED COMPONENTS"



Remove the rear access cover by loosening and removing the (4) M6 button head screws as shown in **Illustration A**. Mount the LVS bracket in its place using the same hardware as shown in **Illustration B**. Route the power and video cables through the bracket tube. Once the cables are routed thorough the bracket tube, mount the vision system to the bracket using the provided (4) Phillips Head Screws as shown in **Illustration C**.



LVS Installation Instructions:



Using the BVE Mounting Bracket, measure and mark the holes for the mounting bracket in its place on the back of the console as shown in **Illustration A**. Then using a drill and a ¹/₄-20 Drill Bit, drill out the mounting holes and mount the Remote Control Bracket in its place. From the inside of the console, install the metal reinforcement bracket along with the (2) ¹/₄-20 stop nuts securing the bracket in its place as shown in **Illustration B**. Using your Phillips Head Screwdriver, mount the BVE Remote Control on the end of the bracket and tighten it in place as shown in **Illustration C**.

LVS Wiring Connections Instructions



Attach the power and remote control cabling as shown above. The remote control will fit in the RJ45 port. Finally, connect the coaxial and HDMI cables into their respective ports. Check all connections, and plug the treadmill into a power source to verify the BVE system is functioning correctly.

L10 Button Feedback

L10 Button Feedback			
Display Buttons			
Button	Code		
INCLINE +	21		
INCLINE -	22		
SPEED +	23		
SPEED -	24		
STOP	8		
START	7		
EXPRESS 1	9		
EXPRESS 2	10		
^ 1	1		
^ 2	2		
^ 3	3		
^ 4	4		
^ 5	5		
^ 6	6		
Keypad # 1-0	11-20		
Remote Console			
INCLINE +	33		
INCLINE -	32		
SPEED +	31		
SPEED -	30		
STOP/SAFETY STOP	28		
RESUME	29		



Contact Heart Rate Diagnostics:

Contact Heart Rate Diagnostics



Place your hands on both pulse grips and keep them there for 5-10 seconds. The heart rate icon should blink, and provide BPM information. If it doesn't appear, you will need to remove the outer cover of the Remote Console (see Remote Console Instructions) and proceed to Step 2.

<image>

Using a voltmeter set to "Continuity", locate the 3rd wire in on the Ribbon Cable (X pattern on wire) and place one prong. Place your other voltmeter prong on the corresponding wire at other end of harness. If continuity passes (voltmeter will beep), move to the next segment of the Ribbon Cable and repeat. If the ribbon cable passes continuity, check for bent pins at the Upper Board.

If continuity fails along the ribbon cable, Replace the Remote Console (P/N 75020) and Ribbon Cable (P/N 10033)

Contact Heart Rate Diagnostics:

Heart Rate Diagnosis

ACCUTRACK CHR Crossbar Diagnosis:

1. There should be a constant 4.8-5.0Vdc across the red & brown wires on ACCUTRACK CHR Crossbar harness. If there is 0Vdc then the remote console is bad. If the ACCUTRACK CHR Crossbar is working properly this is what you should see with your voltmeter (Not touching the grips).

TIDEE II WITHOUT RECUTIER				
WIRES	Vdc	OHMS		
RED & BLACK	0 Vdc	0.99m OHMS		
RED & BROWN	5 Vdc	No reading		
BLACK & BROWN	4.5 Vdc	6.07m OHMS		

TABLE A – Without Accutrack

If the ACCUTRACK CHR Crossbar is working properly with a Pulse Simulator or when touching the grips, this is what you should see on your meter.

IABLE B – WIII ACCUITACK			
WIRES	Vdc	OHMS	
RED & BLACK	0-1.2 Vdc	5-35m OHMS	
RED & BROWN	3.2 – 5 Vdc	6.13m OHMS	
BLACK & BROWN	0.3 – 4.5 Vdc	1.750 – 1.751m OHMS	
	*NOTE: Fluctuation will	*NOTE: Ohm reading	
	get faster as you increase	increases as you increase	
	heart rate*	the heart rate on pulse	
		simulator*	

TADIED XX/:41 A - --- 4--- - 1-

If the ACCUTRACK CHR Crossbar is not working properly with a Pulse Simulator or when touching the grips, this is what you should see on your meter.

TABLE C – Failed Accutrack			
WIRES	Vdc	OHMS	
RED & BLACK	5Vdc	No reading	
RED & BROWN	Steady 1.96Vdc	No reading	
BLACK & BROWN	Steady 2.97Vdc	OL	

If you get readings from TABLE B and the console will not output a heart rate reading then the upper board has failed.

Pulse Heart Rate Diagnostics:

Heart Rate Receiver / Chest Strap Diagnosis:

- 1. There should be a constant 4.5Vdc – 5Vdc across the brown & black wires on the heart rate receiver harness. If you measure 0Vdc across those two points, then the remote control console is bad.
- If the heart rate receiver is working properly, this is what you should see on your voltmeter. 2.

(Without Hanshitter)			
WIRES	Vdc	OHMS	
BROWN & BLACK	5 Vdc	6.13m OHMS	
BROWN & RED	5 Vdc	0m OHMS	
BLACK & RED	0.7 Vdc	0m OHMS	

TABLE A – (Without Transmitter)

If the heart rate receiver is working properly with your pulse simulator or chest strap, this is what you should see on your voltmeter.

WIRES	Vdc	OHMS
BROWN & BLACK	5 Vdc	0m OHMS
RED & BLACK	$0.1 - 0.4 \mathrm{Vdc}$	0m OHMS
RED & BROWN	Voltage will fluctuate from 2.9 Vdc – 4.9 Vdc (Fluctuation gets faster as you increase your heart rate)	Ohms will Fluctuate from 6.10m ohms – 20m ohms (Fluctuation gets faster as you increase your heart rate.)
	1	

TABLE B – (With Transmitter)

If you get the readings from TABLE B and the upper display board still will not show a heart rate output then the upper board has failed.

If the heart rate receiver is not working properly with your pulse simulator or chest strap, this is what you should see on your voltmeter:

TABLE C – (Heart Rate Receiver Falled)			
WIRES	Vdc	OHMS	
BROWN & BLACK	5 Vdc	0 ohms	
RED & BLACK	$0.1 - 0.4 \mathrm{Vdc}$	0 ohms	
RED & BROWN	2.9	6.10 OHMS	
	(Reading will be steady)	(Reading will be steady)	



Heart Rate Diagnostics Flow Chart:



No Power to Upper Console - Endurance

NOTE: USE THIS FOR DIAGNOSING ENDURANCE CONSOLE Error Code: No power to the upper console





Safety Key Error - Endurance Console

NOTE: USE THIS FOR DIAGNOSING ENDURANCE CONSOLE Error Code: Display reads ER03 Speed Window



No Power to the Upper Console - 9" Series





PO Error - 9" Series

NOTE: USE THIS FOR DIAGNOSING PST & CT7 DISPLAY

Error Code: "PO" Error Code/ Elevation Calibration Failure



Safety Key Error - 9" Series

NOTE: USE THIS FOR DIAGNOSING PST & CT7 CONSOLE

Error Code: Center Display reads REPLACE SAFETY KEY





Endurance Diagnostic Flow Chart:

ERROR CODE	DESCRIPTION	DIAGNOSIS	<u>SOLUTION</u>
ER01 Communication Failure	Loss of communication from the upper board to the inverter board.	Check Upper Harness for loose wires or connection.	 <u>Replace Upper Harness</u> <u>Replace Display Board.</u> <u>Replace Inverter Board.</u>
ER02 Incline Motor Error	Loss of elevation calibration from the elevation motor to the upper display board.	No elevation during use. Check for loose wires or connection. Run Auto Calibration mode.	 <u>Replace Elevation Motor.</u> <u>Replace Upper Harness.</u> <u>Replace Upper Console.</u> <u>Replace Inverter Board.</u>
ER03 Safety Key Error	Loss of the safety key signal from the remote control console to the upper console.	Check to see if the safety key engaged properly into the remote control console.	 <u>Replace Remote Console.</u> <u>Replace Ribbon Cable.</u> <u>Replace Upper Console.</u>
ER04 Over Current Error	Upon start up the AC motor runs faster than the inverter board programmed speed.	Check wiring connection. Perform an amp draw on the belt and deck to see if they are worn.	 <u>Replace Inverter Board.</u> <u>Replace AC Drive Motor.</u> <u>Replace Treadbelt & Deck.</u>
ER05 <u>AC Motor</u> <u>Voltage Failure</u>	When the Inverter board monitors the AC motor is either not getting enough or too much voltage.	The inverter board or the AC drive motor has malfunctioned.	 <u>Replace Inverter Board.</u> <u>Replace AC Drive Motor.</u> <u>Replace Treadbelt & Deck.</u>
ER06 <u>AC Motor</u> <u>Overload Error</u>	This error code indicates that the AC Motor's Thermal Sensor fails.	This error code occurs when there is a high friction on the belt causing the Thermal Sensor to pop on the inverter board.	 <u>Replace Inverter Board.</u> <u>Replace AC Drive Motor.</u> <u>Replace Treadbelt & Deck.</u>



L10 Bed - Exploded View

L10 BED EXPLODED VIEW

View #	Part Description	Part Number
3	Impact Absorber (Blue) (Tall Threaded Top)	10025
6	Deck, L10	10024
11	Treadbelt, 10	10023
32	Elevation Leg Assembly, L10	10060
33	Elevation Wheel, L10	10040
41	Dust Guard, L10	10067
200	Bed Frame Assembly, L10	10010
207	Impact Absorber (Short Blue) (No Threads)	10089
208	Impact Absorber (Black) (Short Threaded Top)	10026
214	Screw Absorber (M8x35 Hex Drive)	10078
215	Nut, M8 Keps (Lock Washer Attached)	10079
217	Flat Washer, Absorber (M8 Fender Washer)	10080
218	Foot/ Leveling, L10	10043





L10 - Motors & Rollers Exploded View

L10 MOTOR & ROLLERS EXPLODED VIEW

View #	Part Description	Part Number	
9	Rear Roller, L10	10029	
10	Drive Roller, L10	- 10028	
12	Drive Roller Sheave (Pulley)		
26	Bolt, Rear Roller, L10	10039	
40	Elevation Motor, L10 (110-V)	10064	
-10	Elevation Motor, L10 (220-V)	10036	
46	Base Plate, Drive Motor	10068	
48	Drive Motor, AC, 110/220V	10037	
59	Tension Screw, "J", L10	10069	
69	Switch, Power, DBL Fuse (110-V)	10013	
02	Switch, Power, DBL Fuse (220-V)	10058	
81	Drive Belt, L10	10030	
203	Inverter Brd. Lower Board (110V)	10011	
	Inverter Brd. Lower Board (220V)	10053	
204	Choke, L10 (110V-220V)	10057	
20.5	Filter, Line $(110V)$	10038	
200	Filter, Line (220V)	10012	
209	Tension Screw Nut - Nylock M8	10074	
210	M8 Flat Washer, Tensioning Spring	10075	
211	Spring, Drive Belt Tension	10076	
212	Idler Arm Pulley Assembly	10050	
220	Screw, Power Switch Assembly	10082	
221	Bolt, Motor Base Plate	10083	
222	Flat Washer, Motor Base Plate	10084	
223	Spacer, M8 Nylon	10085	



LANDICE

L10 UPRIGHT EXPLODED VIEW

View #	Part Description	Part Number
1	L10 Upright Assembly	10051
2	Remote Console & CHR Assembly	73030
3	Display Assembly, L10	10032
4	Handrail, Left, L10	73018
5	Handrail, Right, L10	73017
6	Bridge Assembly – Bottle Holder, L10	73031
7	L10 Base Assembly	10010
8	M5x15 Socket Head Cap Screw	M5x15_SHCS
9	M8x15 Socket Head Cap Screw	M8x15_SHCS
10	L10, Left Inside Cover	75058
	L10, Right Inside Cover	75059
17	M8 Socket Head Cap Screw	M8x10_SHCA
21	M6x15BHSS	M6x15_BHSS
22	L10, Console Bolt	M6x70_SBHSC

