



Get **YOUR** Ergonomic on!™

**OWNER
MANUAL**

ULP-053SN202200



Get **YOUR**
Ergonomic On!™

ULTRA-LOW PROFILE OPERATOR PLATFORM

Original User Instruction







LTW appreciates your business!
Inside, please find guidelines and information concerning the product you purchased.



CONTENTS


SAFETY GUIDE 1


SAFETY SYMBOLS 1


 **DANGER** or  DANGER..... 1


 **WARNING** or  WARNING..... 1


 **CAUTION** or  CAUTION 1


 **NOTICE** or NOTICE..... 1

 DO NOT, PROHIBITION 1

 CRUSH HAZARD 1

 ELECTRICAL HAZARD..... 1

 FORKLIFT 1

 FORKLIFT PROHIBITED..... 1

NOTE: 1

SAFETY INFORMATION 2

 INTENDED USE / GENERAL SAFETY 2

 AVOID MISUSE..... 3

INSTALL GUIDE 5

 TRANSPORTATION AND STORAGE..... 5

 TRANSPORTATION 5

 STORAGE 5

 PRODUCT MATERIAL HANDLING..... 5

 INITIAL PRODUCT SET-UP 6

 LEVELERS 6

 COMPONENTS SHIPPED LOOSE 6

OPERATION GUIDE 7

 GENERAL FUNCTION: 7

 OPERATE SAFELY..... 8

 SIGNAGE:..... 8

 BEFORE MAKING A POWER CONNECTION: 9

 SYSTEM INITIALIZATION/SYNCHRONIZATION 9

 DURING OPERATION: 9



ULP-053SN202200

CONTROL SWITCH 10
RAISE: DRIVE THE PRODUCT UP 10
LOWER: DRIVE THE PRODUCT DOWN 10
PROGRAM A PRESET: 10
UTILIZE A PROGRAMMED PRESET: 10
MAINTENANCE GUIDE 11
MAINTAIN Safely 11
CLEAN: 11
What to use: 12
PREVENTATIVE MAINTENANCE: 12
NOTICE: PERFORM MONTHLY SERVICE 12
NOTICE: PERFORM AN ANNUAL INSPECTION 12
TROUBLESHOOTING: 13
THE BASICS 13
RECONNECT 13
SYNCHRONIZE 13
LTW SUPPORT CONTACT: 14
CONTACT LTW — Support@LTW1.com or +1-269-674-8877 14
TROUBLESHOOTING KIT 14
SPECIFICATIONS 15
POWER SPECIFICATIONS 15
INGRESS PROTECTION 15
DIMENSIONS 15
WEIGHT / MASS 15
EXPLODED VIEW 16
PARTS LIST: 17
PRODUCT END-OF-LIFE 18
DECOMMISSIONING 18
WARRANTY, PATENTS, & TRADEMARKS 19
LTW WRITTEN WARRANTY 19
WHAT IS NOT COVERED BY THE LTW WRITTEN WARRANTY? 19
LTW PRODUCT PATENTS 20
TRADEMARKS 21



ULP-053SN202200

APPENDIX A: ACTUATOR GUIDE a

 LINAK® Movement by electric actuator technology a

 ACTUATOR SAFETY a

 Clean a

 Maintenance: b

 Electromagnetic compatibility b

SAFETY GUIDE

**SAFETY
INSTRUCTIONS**

SAFETY SYMBOLS

 **DANGER** or  **DANGER**

In the owner manual, the **DANGER** icon/word indicates a potentially hazardous situation that, if not avoided, will result in death or serious injury.

 **WARNING** or  **WARNING**

In the owner manual, the **WARNING** icon/word indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury.

 **CAUTION** or  **CAUTION**

In the owner manual, the **CAUTION** icon/word indicates a potentially hazardous situation that, if not avoided, could result in minor or moderate injury.

 **NOTICE** or **NOTICE**

In the owner manual, the **NOTICE** icon/word indicates **important**; and, not physical-injury related. A situation that, if not avoided, could result in damage to property or loss of product functionality.

 **DO NOT, PROHIBITION**

The DO NOT prohibition icon indicates actions that must **NOT** be performed.

 **CRUSH HAZARD**

The Crush Hazard icon alerts the user to the possibility of being crushed.


 **ELECTRICAL HAZARD**

The Electrical Hazard icon alerts the user to the possibility of an electric shock.

 **FORKLIFT**

Suitable handling machinery is required to lift, move, or place the product prior to operator utilization.

 **FORKLIFT PROHIBITED.**

 DO NOT use a forklift on the product where the FORKLIFT PROHIBITED symbol is located.

NOTE:

In the owner manual, the **NOTE:** specifies additional information, qualifications, or conditions, concerning the product.

ULP-053SN202200

SAFETY INFORMATION

⚠ WARNING








⚠ WARNING: Only fully trained, qualified, and authorized personnel shall handle, move, remove, lift, install, connect, maintain, or, operate any LTW product.

INTENDED USE / GENERAL SAFETY

- ◇ All appropriate caution and diligent safety mindfulness must be applied while handling, moving, removing, lifting, installing, connecting, maintaining, or operating the product.
 - Safety is everyone's responsibility!
 - This includes any personnel that handle, move, remove, lift, install, connect, maintain, or, operate an LTW product.
 - There will be No Danger as long as personnel:
 - Follow all company safety rules and safety procedures,
 - Follow all safety procedures in this document, and
 - Are fully trained, qualified, and authorized before any action involving the product;
 - There will be No Danger because the motion of the product:
 - Is limited at 10mm/Second (it moves slowly — reasonably, an individual should be able to avoid any hazard), and
 - Is Fail-Safe (a button must actively be held for movement, button release means stop); and
 - There will be No Danger because edge sensors and tooling entry perimeter guarding protect against access under the product:
 - **⊘ DO NOT** remove the guarding. ONLY trained, qualified, and authorized personnel shall perform maintenance and/or servicing or remove the guarding.
- ◇ The **product's intended use** is in a clean, indoor business environment with 3 meters of clearance above the product's upper height, and where a company's safety team has added necessary (secondary) safety measures to ensure safe installation and operation.
 - This product is designed with safety in mind; however, its use is dependent upon a suitable risk assessment by the owner at the installation site deployment location to determine any hazard that may be created by its interaction with other equipment.
 - Fully comprehend and strictly observe the information provided within this document to safely utilize the product.
 - **⊘ DO NOT** have furniture placed upon the product.
 - **⊘ DO NOT** utilize
 - With inadequate lighting,
 - In an outdoor environment,
 - Where ice can form, or
 - Where water may drop, spray, or rise to the product.
 - **⊘ DO NOT** allow children or infirm persons to operate the product without adequate supervision.

ULP-053SN202200

DANGER







- ◇  **DO NOT** allow persons or objects under the product.
 -  **DANGER:**  **DO NOT** operate while any person is underneath. It is a hazardous situation that, if not avoided, will result in death or serious injury.
 -  **CRUSH HAZARD** —  **DO NOT** operate while any person or object is underneath.
 - **NOTICE:**  **DO NOT** operate while any object is underneath. It is a situation that, if not avoided, could result in damage to property or loss of product functionality.
- ◇  **DANGER:** Death, serious injury, property damage, or loss of functionality may occur from failure to comply with directives provided in this document or in conjunction with the symbols:





AVOID MISUSE

MISUSE — Operating the product improperly, for the wrong purpose, in a manner inconsistent with the intended use, or an abusive manner.



DANGER

- ◇  **DO NOT** allow persons or objects under the product.
 -  **DANGER:**  **DO NOT** operate while any person is underneath. It is a hazardous situation that, if not avoided, will result in death or serious injury.
 -  **CRUSH HAZARD** —  **DO NOT** operate while any person or object is underneath.
 - **NOTICE:**  **DO NOT** operate while any object is underneath. It is a situation that, if not avoided, could result in damage to property or loss of product functionality.







CAUTION

- ◇  **DO NOT** overload, sideload, drill holes into the slider legs or actuators to fasten items, step on, or kick the components or actuators.
 -  **CAUTION:** An overload, sideload, or damage can cause a potentially hazardous situation that, if not avoided, could result in minor or moderate injury.
 - **NOTICE:** An overload, sideload, or damage can cause a situation that, if not avoided, could result in damage to property or loss of product functionality.

NOTICE

- ◇  **DO NOT** allow unauthorized personnel to open any electrical or electronic component or enclosure.
 - **NOTICE:** An attempt to open electrical or electronic components can cause a situation that, if not avoided, could result in damage to property or loss of product functionality.
- ◇  **DO NOT** attempt to operate the system if:
 - Any component is disconnected and/or missing.
 - **NOTICE:** An attempt to operate the system with key components disconnected and/or missing can cause a situation that, if not avoided, could result in damage to property or loss of product functionality.
 - There is visible damage to the product or any of its controls.
 - **NOTICE:** An attempt to operate a damaged system can cause a situation that, if not avoided, could result in damage to property or loss of product functionality.

ULP-053SN202200

- ◇  **DO NOT** use powered machinery forks under the side of the product where  Forklift Prohibited signs are located.
- Use the Forklift Here  **LIFT FROM HERE**  signs to know where it is safe to lift from.
 - **NOTICE:** Using powered machinery forks under an area other than where indicated by the Forklift Here sign may cause a situation that, if not avoided, could result in damage to property or loss of product functionality.
 -  **DO NOT** utilize the product in environments other than those intended.
 -  **DO NOT** utilize the product in a hazardous environment, an explosive environment, or an environment where an explosion may occur.
 - This product is **NOT** ATEX-rated or certified.

INSTALL GUIDE

⚠ WARNING

⚠ WARNING: Only fully trained, qualified, and authorized personnel shall handle, move, remove, lift, install, connect, maintain, or, operate any LTW product.

TRANSPORTATION AND STORAGE

TRANSPORTATION

Use a trailer that combines the open-access nature of a flatbed with the weather protection of a dry van, using a retractable tarping system for efficient loading and unloading for outside transportation to protect the product from the weather. Known as: a Conestoga trailer, a curtain-side trailer, or a rolling tarp trailer.




- ◇ STABILIZE FOR SHIPMENT
 - Secure the Leveling Feet to approximately 2" thick board material.
- ◇ WHAT EQUIPMENT TO USE
 - Use suitable handling machinery with extended forks and the capacity to lift 850 pounds (386Kg).

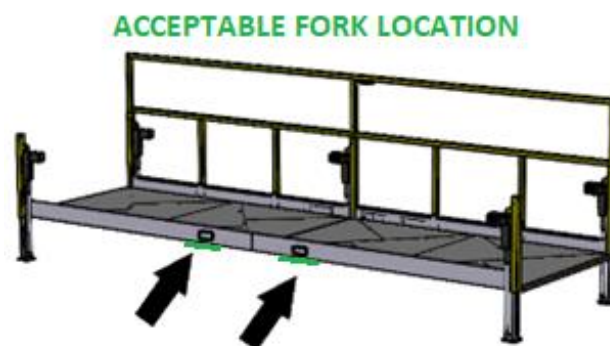
STORAGE

Please store in a dry, temperate location where the product is safe from damage.

PRODUCT MATERIAL HANDLING

⚠ WARNING: Heavy Object.

- ◇ This product is approximately 850 pounds, or approximately 386Kg.
 - Any heavy object inherits certain risks during handling; therefore, appropriate caution and diligent safety mindfulness must be applied.
 - Perform a risk assessment prior to unloading from the trailer and transporting within the facility.
- ◇  Forklift
 - Suitable handling machinery is required to lift, move, or place the product prior to operation.
 -  **DO NOT** attempt to lift, move, or place the product without machinery suitably designed to perform the task.
 - **NOTICE:** This product has a TAPESWITCH® edge sensor.  **DO NOT** lift from under the TAPESWITCH®
 - Lifting a product from under the TAPESWITCH® edge sensor will damage the sensor.
 - Visually inspect the product for obvious damage prior to lifting, moving, or placing the system.
 - If there are concerns: Note such concerns and advise your supervisor.
 - If all is well, perform the lifting, moving, or placement as planned.



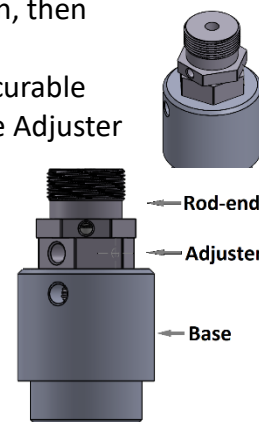
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- **⚠ WARNING:** Placing the product near other machinery or structures may create a hazardous shear or pinch point situation.
 - Visually inspect the product for obvious damage after lifting, moving, or placement.
 - If there are concerns: Note such concerns and advise the necessary persons.
 - Prior to completing the installation of the system; noted concerns should be mitigated.
 - The company's safety team should perform a suitable risk assessment at the installation site deployment location to determine any hazard that may be created by its interaction with other equipment.
 - If all is well, perform the installation of the system as planned.

INITIAL PRODUCT SET-UP

LEVELERS

- ◇ This product has LTW designed, actuator attached, floor-securable leveling-feet,
 - Bolt the leveling-feet to the floor once the product has been placed into position, then
 - To level the LTW, actuator attached, adjustable leveling-foot system;
 - Note the three (3) visible main components: the Base (welded to the securable foot), the Rod-end (hex attached to the end of the actuator rod), and the Adjuster (hex between the Rod-end and the Base), including set screws:
 - Using a 2.5mm hex key, loosen the bottom three (3) set screws,
 - One (1) in the Base,
 - Two (2) in the Adjuster hex.
 - While using a super-thin 7/8" open-end wrench to keep the Rod-end still, use a regular 7/8" open-end wrench to turn the Adjuster hex to level the leg that it is attached to.
 - Using a 2.5mm hex key, tighten all three (3) set screws to 7.5 lb-ft torque.



COMPONENTS SHIPPED LOOSE

- ◇ Install any loose panels, railing, or other items delivered with the product to complete assembly prior to use.

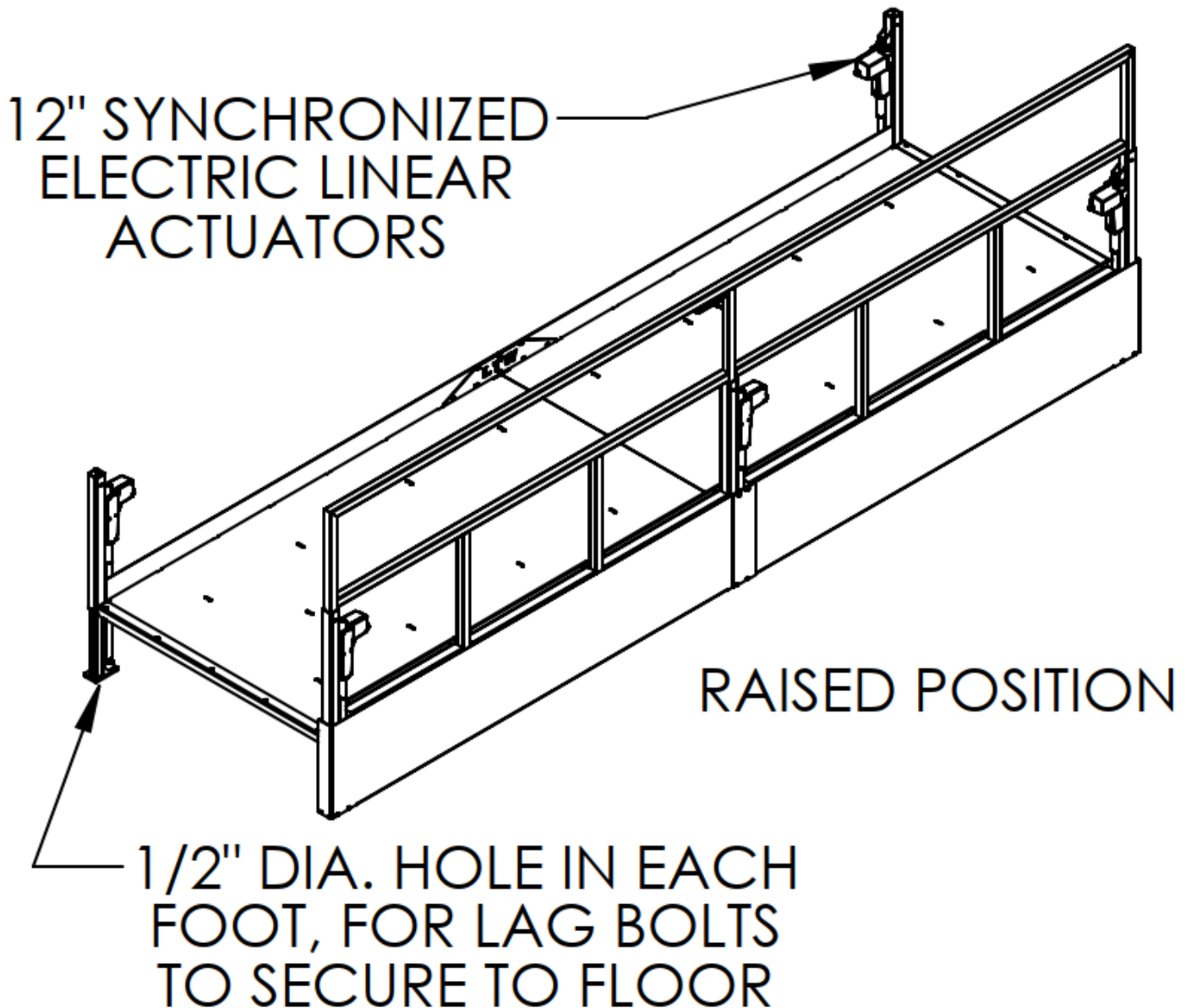
OPERATION GUIDE

⚠ WARNING

⚠ WARNING: Only fully trained, qualified, and authorized personnel shall handle, move, remove, lift, install, connect, maintain, or, operate any LTW product.

GENERAL FUNCTION:

LTW's Ergonomic electrically controlled Ultra-Low Height Adjustable Operator Platform adjusts effortlessly, with the touch of a fail-safe button, to optimize the operator work height thereby reducing ergonomic injury!





ULP-053SN202200

OPERATE SAFELY

WARNING:

Visually inspect, read and follow

- ◇ Prior to any operation, visually inspect and verify that all sides are clear and that there will be no interference with persons or objects to the Up or Down motion of the product.
- ◇ Prior to any operation, read and follow all safety information provided in this document, and verify that the guarding is in place; and that there are no loose components.

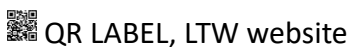
Electrical Hazard:

- ◇ DO NOT open any electrical enclosure; maintenance/servicing shall ONLY be performed by trained, authorized, qualified service personnel.

NOTICE: Damaged, missing components

- ◇ DO NOT operate if there is visible damage to the product or any of its controls.
- ◇ DO NOT operate if any component is disconnected/missing.

SIGNAGE:



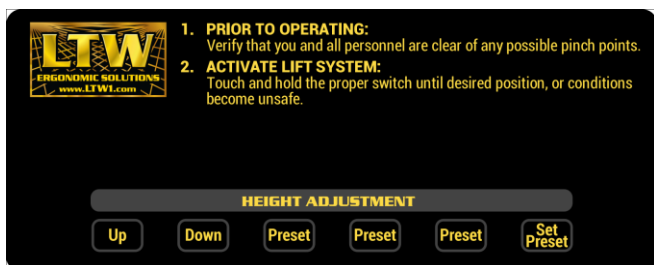
LTW SERIAL TAG



CONTROL INSTRUCTION



ULP-053SN202200



BEFORE MAKING A POWER CONNECTION:

NOTICE: System connection:

- ◇ Verify that all system control components are connected.
 - Verify that all system cable connections are secure.
- ◇ Verify that the Mains supply AC voltage and frequency are within the product's specifications of 120VAC, 60HZ.
- ◇ Verify that the supplied Power Cord plug will connect to a matching, NEMA 5-15 grounded outlet receptacle.
 - Ensure that the power cord is protected from slips, trips, and damage.

SYSTEM INITIALIZATION/SYNCHRONIZATION

- ◇ Even though LTW tests each product before shipment, during first use, should the actuators not raise the product (or anytime components become disconnected/reconnected):
 - Press and hold the "Down-Arrow" button until all actuators are lowered, then release.
 - Press and hold the "Down-Arrow" button again, continuing to press the button for between five (5) seconds and twenty (20) seconds.
 - It is expected that all actuators shall lower a little more (to the end-of-stroke limit switch), then raise up approximately 5mm.
 - At this point the system is initialized/synchronized for parallel operation.
- ◇ RE-SYNC — If the actuators do not raise the product when they should
 - Perform the system initialization/synchronization again.
 - Suitable operation should be restored.
 - If suitable operation is not restored, please perform Troubleshooting as described in the **MAINTENANCE GUIDE** section.

DURING OPERATION:

⚠ CAUTION: It is recommended that personnel who have been standing in one position for over an hour at a time rotate with other personnel to reduce the risk of ergonomic injury.







NOTICE: Be cognizant of potential danger should unusual product function occur.

- ◇ **Listen & Watch:** Unusual sounds or uneven movement.
- ◇ **Listen & Smell:** Unusual noises or smells from the Control Box.
- ◇ **NOTICE:** Cease operations and disconnect the system power immediately if anything unusual is observed

ULP-053SN202200

CONTROL SWITCH



-  Parallel Up
-  Parallel Down
-  Memory 1
-  Memory 2
-  Memory 3
-  Store Memory

RAISE: DRIVE THE PRODUCT UP



- ◇ Press and hold the “Up-Arrow” button until the product is at the desired height.
- ◇ The product will move up until the button is released or until the product reaches its end position.
- ◇ The “Up-Arrow” function is only active while the button is being pressed.

LOWER: DRIVE THE PRODUCT DOWN



- ◇ Press and hold the “Down-Arrow” button until the product is at the desired height.
- ◇ The product will move down until the button is released or until the product reaches its end position.
- ◇ The “Down-Arrow” function is only active while the button is being pressed.

PROGRAM A PRESET:



- ◇ Raise or Lower the product to the desired height.

- ◇ Press the "S" button once and release.

- ◇ Within two (2) seconds, press and release the desired numerical button (“1”, “2”, or “3”) to associate the selected height with that selected numerical button.



- ◇ Repeat this procedure to program any other numerical button.

UTILIZE A PROGRAMMED PRESET:



- ◇ Press and hold one of the memory buttons (“1”, “2”, or “3”) and the system will start driving to the pre-programmed memory position.

- ◇ Keep the button pressed until the position is reached.



- ◇ Release the button.

- ◇ Work ergonomically and happily!

Need more ergonomics? Head over to www.LTW1.com to find industrial, height adjustable machine bases, tables, workstations, material handling carts, retrofit kits, operator platform lifts, and more!

MAINTENANCE GUIDE

⚠ WARNING

⚠ WARNING: Only fully trained, qualified, and authorized personnel shall handle, move, remove, lift, install, connect, maintain, or, operate any LTW product.

MAINTAIN SAFELY

⚠ WARNING: Visually inspect, read and follow

- ◇ **Prior to any operation, visually inspect and verify that all sides are clear** and that there will be no interference with persons or objects to the Up or Down motion of the product.
- ◇ Prior to any operation, read and follow all safety information provided in this document, and verify that the guarding is in place; and that there are no loose components.

⚠ WARNING: Electrical

- ◇ **⚡ Electrical Hazard:** Any product that connects to an electrical outlet or subsystem inherits certain risks; therefore, appropriate caution and diligent safety mindfulness must be applied.
- ◇ To reduce the risk of electric shock, always disconnect the product's power cord before cleaning or performing maintenance.
 - This product has a power cord directly attached to the product; use a plug lock to prevent the plug from being reconnected while service is being performed.
- ◇ **⊘ DO NOT** open any electrical enclosure; maintenance/servicing shall **ONLY** be performed by trained, authorized, qualified service personnel.
- ◇ **⊘ DO NOT** open LINAK® electrical components.
 - **⊘ DO NOT** attempt to service LINAK® components.
 - LINAK® components are NOT user serviceable.
 - If your product needs service - LTW customer support: Please **CONTACT LTW Support@LTW1.com** or **+1-269-674-8877**; OR the local approved service provider.

NOTICE: Damaged, missing components

- ◇ **⊘ DO NOT** operate if there is visible damage to the product or any of its controls.
- ◇ **⊘ DO NOT** operate if the Control Switch or any Link Cable is disconnected/missing.



CLEAN:

NOTICE: Liquids

- ◇ **⊘ DO NOT** allow moisture to get into any electronics on the product.
 - **⊘ DO NOT** soak any of the electrical components or junction boxes with water and/or cleaning solution.
 - **⊘ DO NOT** spray water and/or cleaning solution directly onto any of the electrical components or junction box.
 - **⊘ DO NOT** use in extremely high-humidity environments (example: a pressure wash area).
- ◇ **⊘ DO NOT** use cleaners and disinfectants that are highly alkaline or acidic on the PH scale.



ULP-053SN202200

- Only use between PH 6 to PH 8 solutions.
-  DO NOT use bleach or chlorine.
-  DO NOT use hand sanitizer gel as a cleaning agent.

What to use:

- ◇ **Steel sliders:** Only use a dry cloth to clean debris.
 - After cleaning, lubricate the steel sliders as described in Preventative Maintenance.
 - Please contact LTW before using any solvent or cleaner on the steel sliders.
- ◇ **Other than the steel sliders:** Use a dry cloth to maintain product cleanliness.
 - If a wet cloth is needed,
 - Only dampen the cloth just enough to perform the cleaning.
 - If a cleaner is needed,
 - Only use between PH 6 to PH 8 solutions and only dampen a cloth just enough to perform the cleaning.
- ◇ **Control Switch disinfection:** A 70% isopropyl alcohol solution may be used.
 - Use a pre-packaged wipe or only dampen a soft cloth just enough to perform the cleaning

PREVENTATIVE MAINTENANCE:

NOTICE: PERFORM MONTHLY SERVICE

Lubrication of the steel sliders.

- ◇ The product is manufactured using heavy-duty welded-steel frames.
- ◇ A combination of bearings, riding on the steel tubing, are utilized to allow the steel frames to slide and assist with frame alignment.
- ◇ Monthly lubrication is required to ensure that these frames slide correctly and efficiently to maintain product functionality.
 - Maintain a documented schedule to keep track of preventative maintenance as the product is utilized.
 - Continue to maintain that schedule for the life of the product.
 - LTW requires that Dry PTFE Lubricant be applied between sliding sections.
 - Examples:
 - WD-40 Specialist Anti-Friction Dry PTFE Lubricant.
 - CRC Industrial Dry PTFE Lube No. 03044.

NOTICE: PERFORM AN ANNUAL INSPECTION

- ◇ Clean dust and dirt on the outside of the product and inspect for damage and breaks.
 - Inspect power and control cables and wires for damage, breaks, secure connections, the condition of cables, plugs, and receptacles (no corrosion), and the secureness of attachment points.
- ◇ Verify correct product functionality.

ULP-053SN202200

TROUBLESHOOTING:

THE BASICS

Thank you for choosing LTW!

The below step-by-step guide is designed to restore product functionality, QUICKLY!

- ◇ Verify that the power connection is secure and meets the product specifications.
- ◇ Verify that all system cable connections are secure.



- ◇ After the above verifications, test product functionality.
 - If a successful test is conducted, continue to operate the product normally.
 - If the product fails to function correctly:

RECONNECT

- **FIRST** Disconnect the Power Cord plug from the Power Outlet Receptacle.
- **NEXT** Disconnect and reconnect each system cable, one at a time.
- **AND THEN** Reconnect the Power Cord plug into the Power Outlet Receptacle.
- After the above reconnections, test product functionality.
 - If a successful test, continue to operate the product normally.
 - If the product fails to function correctly:

SYNCHRONIZE

- Please perform System Initialization/Synchronization as described in the **OPERATION GUIDE**.
- If full functionality of the lift system is not restored after these steps:**



ULP-053SN202200

LTW SUPPORT CONTACT:

CONTACT LTW — Support@LTW1.com or +1-269-674-8877

We apologize for this inconvenience.

TROUBLESHOOTING KIT

LTW is committed to assisting with issue resolution concerning our products.

- ◇ At the discretion of LTW support personnel, a troubleshooting kit may be provided that may include:
 - Instructions,
 - An Actuator,
 - A Controller,
 - A Power cord,
 - An Actuator Cable(s), and
 - Any other item an LTW technician decides may be required to diagnose an issue completely.
- ◇ An LTW technician will be available through email and phone.



ULP-053SN202200

SPECIFICATIONS

POWER SPECIFICATIONS

- ◇ **SUPPLY POWER:** - - - **120 VAC, 60 Hz, 900 W** (Maximum incoming power usage)
- ◇ Per control box:
 - Maximum incoming power usage: 300 W
 - Output 1, 2: - - - 12 VDC to 40 VDC, 9 A
 - Output DC: - - - 40 VDC, 5 A
 - Operation Duty Cycle: - Intermittent — 10% Max., 2-minutes-on/18-minutes-off

INGRESS PROTECTION

- ◇ Many components of this product have an **IP21** rating.
- ◇ The IP code or ingress protection code indicates how well a device is protected against dust and water. It is defined by the International Electrotechnical Commission (IEC) under the international standard IEC 60529 which classifies and provides a guideline to the degree of protection provided by mechanical casings and electrical enclosures against intrusion, dust, accidental contact, and water.

DIMENSIONS

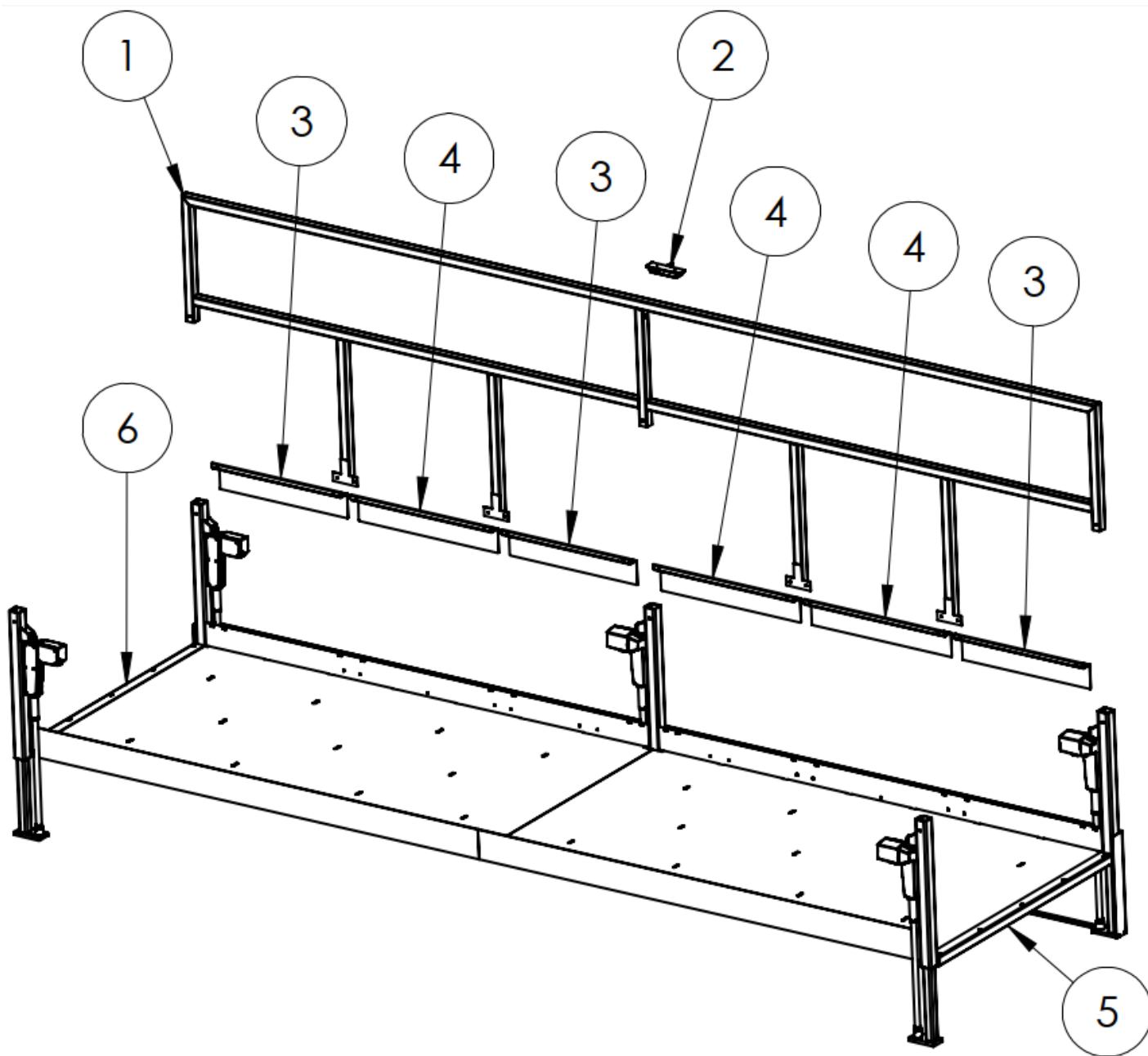
- ◇ Width: - - - - 172.13", 4397.5mm
- ◇ Depth: - - - - 48", 1219.2mm
- ◇ Platform Height: - - - - Adjustable from 1.88", 47.75mm to 13.88", 352.55mm
- ◇ Maximum Height: - - - - 56", 1422.4mm

WEIGHT / MASS

- ◇ Load Rating: ≈1,266#, ≈574.25Kg
 - Max. # of persons on lift: ≈4 people of ≈250# or ≈113Kg each
- ◇ Shipping Weight: ≈850#, ≈385.55Kg
- ◇ Lifting Capacity per Actuator - - ≈562LBS force, 2500N force

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EXPLODED VIEW





ULP-053SN202200

PARTS LIST:

#	LTW PART #	DESCRIPTION	QTY	UOM
	LALA-ACTUATOR1	ACTUATOR, ADJUSTER, & LEVELING ASSY	5	EA
	5781-INR-LEG-W	INR-LEG, LEVELING ADJUSTER & FOOT WELDMENT	5	EA
1	5781-HANDRAIL-W	HANDRAIL WELDMENT	1	EA
6	5781-MAIN-W	MAIN WELDMENT	1	EA
	=====	<u>ELECTRICAL COMPONENTS</u>		
	ELE-WIRE-0007	JUNCTION BOX / HANDYBOX	1	EA
	ELE-WIRE-0008	COVER, JUNCTION BOX HANDYBOX	1	EA
7	SLS-0001	SAFETY LIMIT SWITCH (SLS)	2	EA
	ELE-SIGNAL-0005	CABLE SIGNAL SLS EXT SW	1	EA
	POWERCORD-0005	POWERCORD 18/2 3xC17	1	EA
	POWERCORD-0012	POWERCORD 16/3 NEMA 5-15P	1	EA
	ELE-CONNECT-0008	SCREW, GREEN, GROUND ELE #10-32x3/8	1	EA
	ELE-WIRE-0007	BOX JCT 4x2X1-7/8 HANDYBOX ELE	1	EA
	ELE-WIRE-0008	CVR BOX JCT BLANK 4x2 ELE	1	EA
	CONTROLBOX-0001	2CH CONTROLL-BOX 120VAC/60HZ	3	EA
2	CONTROL SWITCH-001	DESK-PANEL/CONTROL-SWITCH	1	EA
	LINKCABLE-0004	ACTUATOR LINK CABLE 4.5M	2	EA
	LINKCABLE-0003	ACTUATOR LINK CABLE 2.5M	3	EA
	ETHERNETCABLE-001	2' ETHERNET CABLE	1	EA
	EHTERNETCABLE-002	3' ETHERNET CABLE	1	EA
5	TS-6-47"	TAPESWITCH 47" LONG	2	EA
4	5781-EC1-OG	ELECTRICAL COVER 1, ORIGINAL	3	EA
3	5781-EC2-OG	ELECTRICAL COVER 2, ORIGINAL	3	EA
	=====	<u>OTHER COMPONENTS</u>		
	BEAR-0001	BEARING, 2"	5	EA
	ENDCAP-0001	ENDCAP, "LTW™", 7GA 2" SQ TUBE	2	EA
9	LTW-ERGO END CAP*	ERGOMAT END HOLDER W/NON-SLIP BLK/YLW STRIPES	2	EA
	FLOORING-0003	DIAMOND DEK MATTING	1	EA
11	5781-FG1	FLOOR GUARD INGRESS PROTECTION PANEL 1	1	EA
10	5781-FG2	FLOOR GUARD INGRESS PROTECTION PANEL 2	1	EA
	FJ-FASTENER-0002	FOOTPLATE ADJUSTER BASE SET-SCREW	5	EA



ULP-053SN202200

PRODUCT END-OF-LIFE

A suitably maintained product is expected to provide useful functionality for over 15 years.

- ◇ LTW is unaware of an expiration date for the product's usefulness.
- ◇ When the owner determines our product has reached the end of its useful life, please properly clean and dispose/recycle components per regulations.

DECOMMISSIONING

The product may be decommissioned to either storage or disposal.

STORAGE

Please store in a dry temperate location where the product is safe from damage.

DISPOSAL

All parts are recyclable and should be treated as such.

Enjoy the benefits of our ergonomic product, and let us know how we can help your company in other areas and ways! Go to www.LTW1.com to see all of our dynamic ergonomic solutions, and *share us everywhere!*



ULP-053SN202200

WARRANTY, PATENTS, & TRADEMARKS

LTW WRITTEN WARRANTY

LIMITED LIFETIME STRUCTURAL WARRANTY ON LTW PRODUCTS WITH AN LTW DATA-PLATE & SERIAL NO. 1-YEAR PARTS REPLACEMENT OF ALL OTHER COMPONENTS, INCLUDING ELECTRICAL COMPONENTS.

LTW PRODUCTS SHALL FUNCTION AS DESCRIBED IN WRITING TO THE PURCHASER, SHALL BE FREE OF MANUFACTURER DEFECTS, AND SHALL BE OF GOOD QUALITY.

LTW PRODUCTS SHALL SATISFY THE PURCHASER'S INTENDED USE AFTER BOTH LTW AND THE PURCHASER HAVE APPROVED A DESIGN IN WRITING AND LTW HAS COMPLETED ITS DESIGN SUCH THAT LTW'S DESIGN COMPLIES WITH BOTH LTW'S MANUFACTURING CAPABILITIES AND THE PURCHASER'S SPECIFICATIONS.

WHAT IS NOT COVERED BY THE LTW WRITTEN WARRANTY?

◇ **Accidental informational errors.**

Although employees of LTW strive to provide correct information, mistakes are a fact of life; therefore,

- **All information disclosed by LTW or its employees, agents, or subcontractors (The Provider) is in good faith, however, The Provider makes no representation or warranty of any kind, express or implied, regarding the accuracy, adequacy, validity, reliability, availability, or completeness of information provided beyond the scope of the original user instruction (Owner Manual), and beyond the scope of a written agreement between The Provider and the Purchaser.**

◇ **Damage due to:** failure to comply with guidelines, misuse and/or abuse, unauthorized changes, repairs by untrained personnel, catastrophic events, or hostilities.

Avoid Misuse, LTW cannot be held liable for misuse of its products or other damage done outside the control of LTW; therefore,

- **The LTW Written Warranty shall not apply in the event of defects or damages caused by: (i) failure of Purchaser to comply with any operational or maintenance guidelines or requirements: (ii) misuse or physical abuse of LTW products or any component thereof, or acts of vandalism by any persons other than LTW or its employees, agents, or subcontractors (The Provider): (iii) alterations, modifications, or additions made during the applicable warranty period by anyone other than The Provider or its authorized warranty providers without express permission from The Provider: (iv) repairs made during the applicable warranty period by anyone who is not a trained, qualified, and authorized technician to perform such repair: (v) accidents or damage resulting from fire, water, wind, hail, lightning, electrical surge or failure, earthquake, theft or similar causes not caused or contributed to by the sole negligence of The Provider: or, (vi) any acts of hostility or aggression or similar acts not caused or contributed to by The Provider.**

◇ **Except for the LTW Written Warranty Statement, there is no other warranty.**

An LTW employee may make a misstatement and verbal exchanges may be misremembered and/or misunderstood, mistakes are a fact of life and memories can be faulty; therefore,

- **Except for the express limited warranty specified above in the LTW written warranty statement, LTW or its employees, agents, or subcontractors (The Provider) make no warranties, either express or implied, including without limitation any implied warranty of merchantability, fitness for a particular purpose, or non-infringement of intellectual property rights or any implied warranty arising from statute, course of dealing, course of performance or usage of trade. The LTW written warranty statement is in lieu of all other express and**



ULP-053SN202200

implied warranties. Without limiting the generality of the foregoing, The Provider has no obligation to indemnify, defend, or hold harmless the Purchaser, including without limitation against claims related to product liability or infringement of intellectual rights, unless such an indemnity is specifically provided.

The LTW written warranty is governed by the laws of the State of Michigan in the United States of America and may be subject to certain limitations or exclusions depending on state regulations. This warranty provides the Purchaser with specific legal rights, and the Purchaser may have other legal rights that vary from state to state.

LTW PRODUCT PATENTS

PRODUCTS COVERED

U.S. PATENTS

Vertically Adjustable Tables

**US 6343556 B1,
US 6874432 B2**

E2 Base, E2H Base, E2 LC Base, E4/E4H Base, E6H Base, E2 Workstation, E2 Tilt Workstation, E2 Table, E4/E4H Table, E4H Tilt Ergo Lift Table, Rotating GTR Packing-Shipping Table & Workstation, E4H Tilt Cobot Table – CoBase™, E2 Shipping Table, E2 Packing Table

Adjustable Staircase and Height-Adjustable Platform with Adjustable Staircase
Adjustable Steps Platform (Gen II), Adjustable Custom Made To Order Platform (MTO) with Adjustable Staircase

US 9562358 B2

Table and Accessory Unit Assembly and Method of Docking Accessory Unit to Table

**9,661,923
US 20150182022 A1**

RCT-WS Rapid Change Workstation, RCT-RL Rear Load System Rapid Change Workstation

Height-Adjustable Table and Method of Assembly MPublic Table, MConference Table

US 9883737 B2

Shelving system with tilting shelves and adjustable dividers

US 11304514 B2

Adjustable height multi shelf cart Pick2Cart™

US 11827262 B2

U.S. Patent Pending

Ultra Low Profile Operator Platform
Adjustable Platform Corner X-Wing Support
Height Adjustable Workstation

U.S. Patent Pending
US20210261395A1
US20240159350A1
US20240208036A1



ULP-053SN202200

TRADEMARKS

LTW's "Get YOUR Ergonomic On™" is a trademark of LTW Ergonomic Solutions.

LTW's "X-WING™" is a trademark of LTW Ergonomic Solutions.

LTW's "Pick2Cart™" is a trademark of LTW Ergonomic Solutions.

LINAK® is a registered trademark of LINAK A/S.

TAPESWITCH® is a registered trademark of TAPESWITCH Corporation.





APPENDIX A: ACTUATOR GUIDE

LINAK® MOVEMENT BY ELECTRIC ACTUATOR TECHNOLOGY




LINAK® develops electric linear actuator solutions for smooth movement in a variety of applications across many business areas.

- ◇ LTW Products use LINAK® electric actuators for our ergonomic lifts.
 - LINAK® actuators are CE Marked and UL Certified.
- ◇ Please visit www.LINAK.com to obtain accurate controlled information about LINAK® products.
- ◇ The information below is uncontrolled and **ONLY** for reference convenience.

ACTUATOR SAFETY

- ◇  DO NOT allow unauthorized personnel to open any LINAK® component.
- ◇  DO NOT use LINAK® actuators and electronics within the following fields:
 - In the presence of a flammable anesthetic mixture with air, or with oxygen, or nitrous oxide.
 - Planes and other aircraft.
 - Explosive environments.
 - Nuclear power generation.
- ◇  DO NOT expose LINAK® actuator system components to high-intensity ultraviolet radiation disinfection lamps.
 - **NOTICE:** High-intensity ultraviolet radiation disinfection lamps may damage the enclosure, supporting parts, and cables.
- ◇  DO NOT expose LINAK® actuator system components to cutting oil.
 - **NOTICE:** Exposure to cutting oil can cause a situation that, if not avoided, could result in damage to property or loss of product functionality.

Clean

- ◇  DO NOT use cleaners and disinfectants that are highly alkaline or acidic on the PH scale.
 - Only use between PH 6 to PH 8 solutions.
 -  DO NOT use bleach or chlorine.
 -  DO NOT use hand sanitizer gel as a cleaning agent.
- ◇ For disinfection of the desk panel, you may use 70 percent isopropyl alcohol either as a wipe or add a small amount to a soft cloth.
 - The desk panel is NOT a sealed unit and includes electronics inside.
 - **NOTICE:** If liquids or moisture enter an opening, the PCB may be damaged, and the desk panel ruined. Thus:
 - Avoid moisture penetrating any openings as this may damage the PCB inside the desk panel.
 - Avoid spraying the cleaning agent or disinfectant directly on the desk panel as moisture may penetrate openings damaging the PCB inside the desk panel.

ULP-053SN202200

Maintenance:

◇ Service of Class II double insulated products:



- A Class II or double insulated electrical appliance is one which has been designed in such a way that it does not require a safety connection to electrical earth (US: ground).
- The basic requirement is that no single failure can result in dangerous voltage becoming exposed so that it might cause an electric shock and that this is achieved without relying on an earthed metal casing.
 - This is usually achieved at least in part by having two layers of insulating material surrounding live parts or by using reinforced insulation.
- In Europe, a double-insulated appliance must be labeled “Class II”, “double insulated” or bear the double insulation symbol.
 - **NOTICE:** Servicing a double-insulated product requires extreme care and knowledge of the system, and is to be done only by qualified service personnel.
 - Replacement parts for a double-insulated product must be identical to the parts they replace.
- There is no earthing/grounding means provided on the LINAK[®] actuator product, and no earthing/grounding means is to be added to the LINAK[®] actuator product.
 - **NOTE:** *LTW makes no change to the electrical earth (U.S.: ground) on the LINAK[®] actuator system.*
 - *LTW must connect electrical earth (U.S.: ground) to the metal products that the actuators lift.*

Electromagnetic compatibility

- ◇ LINAK[®] actuator systems bear the CE marking as an attestation of compliance with the EMC.
- ◇ The systems are designed to meet all requirements of applicable standards and have been tested to meet requirements.
- ◇ Emission:
 - LINAK[®] Actuator Systems are CISPR 11, Group 1, Class B products, comply with Class A
- ◇ Immunity:
 - Test levels are according to a Professional Environment.
- ◇ Electromagnetic phenomena are evaluated on a system level, with the actuator connected to a LINAK[®] control box and accessories.