# Owner's Manual

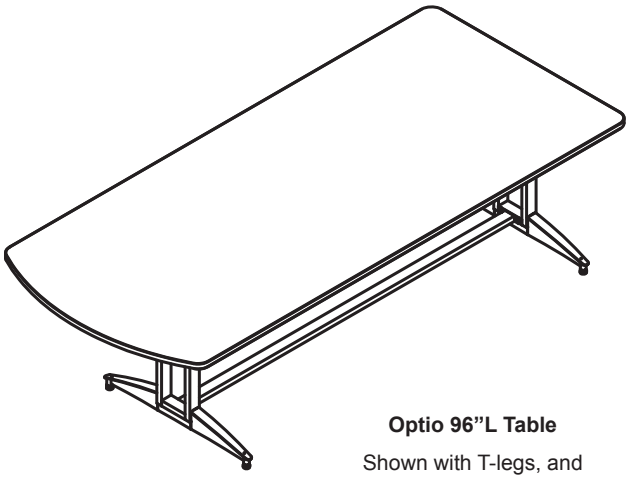
SPECTRUM INDUSTRIES INC.

## Optio Collaboration Table™

37132

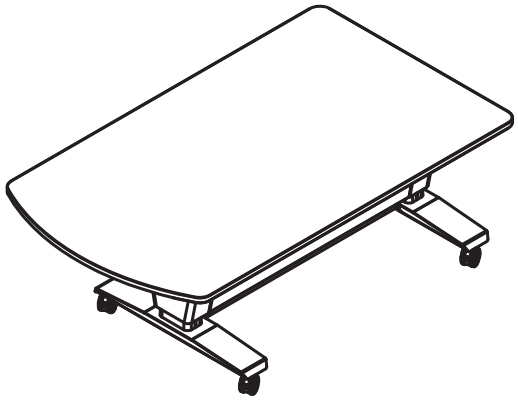
**Optio 60"L Table**

Shown with T-legs



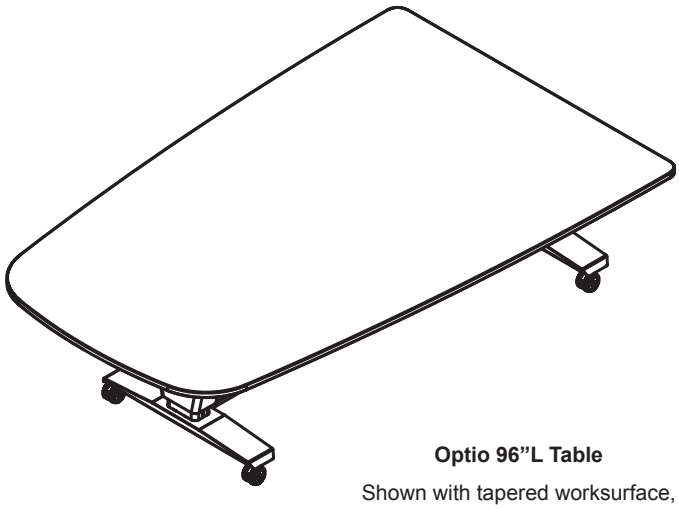
**Optio 96"L Table**

Shown with T-legs, and cord channel



**Optio 72"L Table**

Shown with eLift legs, casters, and AV technology channel



**Optio 96"L Table**

Shown with tapered worksurface, eLift legs, casters, and AV technology channel

**⚠ Important ⚠**

Before using this product:

- Read this manual
- Comply with all safety and operating instructions
- Ensure all parts and correct quantities are included

Any parts damaged during shipment must be reported within 5 days of receipt. To report information regarding missing parts or damage, to purchase parts or accessories, or if you have any questions, please contact us.

*Thank you for purchasing Spectrum products!*

Spectrum Industries, Inc
925 First Avenue, Chippewa Falls, WI 54729 USA
800 235 1262
715 723 6750
www.spectrumfurniture.com

# ⚠ Important Safety and Care Instructions ⚠

- Read this owner's manual before assembly or operation.
- Do not allow children to move the table.
- For indoor use only. Do not install or store the table where it will be exposed to moisture.
- Do not block the ventilation openings.
- Do not allow anyone to sit, stand, or climb on the table.
- Use a damp, soft-cloth, or sponge, with mild soap or detergent solution to clean dirty surfaces. Do not use harsh solvents or abrasives.
- This table is intended for institutional use. It does not have any user-serviceable parts or user-maintenance requirements. If servicing is necessary, please contact Spectrum Industries for assistance.

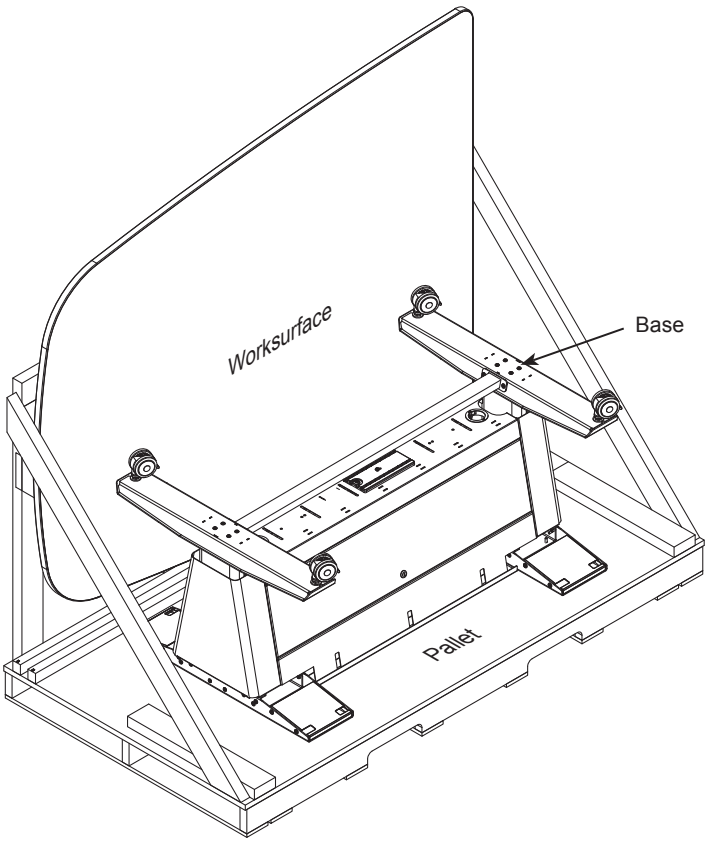
⚠ **Warning** - Relocating audio and/or video equipment to furniture not specifically designed to support audio and/or video equipment may result in death or serious injury due to the furnishing collapsing or over turning onto a child.

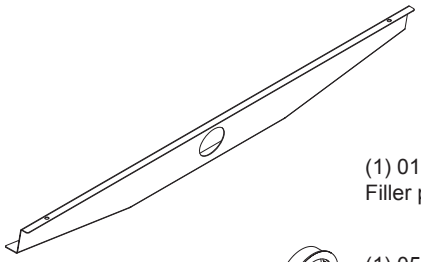
⚠ **Warning** - Death or serious injury may occur when children climb on audio and/or video equipment furniture. A remote control or toys placed on the furnishing may encourage a child to climb on the furnishing and as a result the furnishing may tip over on to the child.

**General Electrical Safety:**

- Keep power switches in the OFF position before plugging or unplugging from the wall outlet.
- Be sure total device / equipment load does not exceed 12-amps.
- Do not plug power cords into an extension cord.
- Inspect power cords for damage before each use. Do not use cords that are damaged.
- Unplug power cord from electrical outlet by gripping the cord-do not unplug by pulling only on the cord.
- Do not step on, drive over, drag, or place objects on power cords.
- For added safety, plug into a grounded outlet controlled by a GFI (Ground Fault Interrupter) circuit breaker.
- Damaged electrical components can create significant hazards to users and is not covered by the warranty. Repairs should always be performed by a qualified electrician.
- Electrical devices are not toys. Children are often unaware of the hazards associated with electrical devices. This table must always be used by adults or with adult supervision.

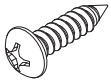
# Components



(1) 0131664
Filler panel

(1) 059984
Grommet



(2) 026057
#10 x 3/4" PHSM

(22) 026064
1/4-20 X 5/8" PHMS

**Hardware for eLift**

(1) 0109398
Control button bracket

(2) 037542
#8 x 5/8" PHSM

(1) 0109397
Control button

(2) 0107023
Snap-in pine tree clip

## 1. Remove base from pallet

1. Remove the banding, packing materials, and screws securing the base to the pallet. **Figure 1**.
2. Carefully flip the base off the pallet upright. Two people required.

Tools Required

Phillips screwdriver

or

Cordless drill with Phillips driver *(best)*

Side cutter

X 2

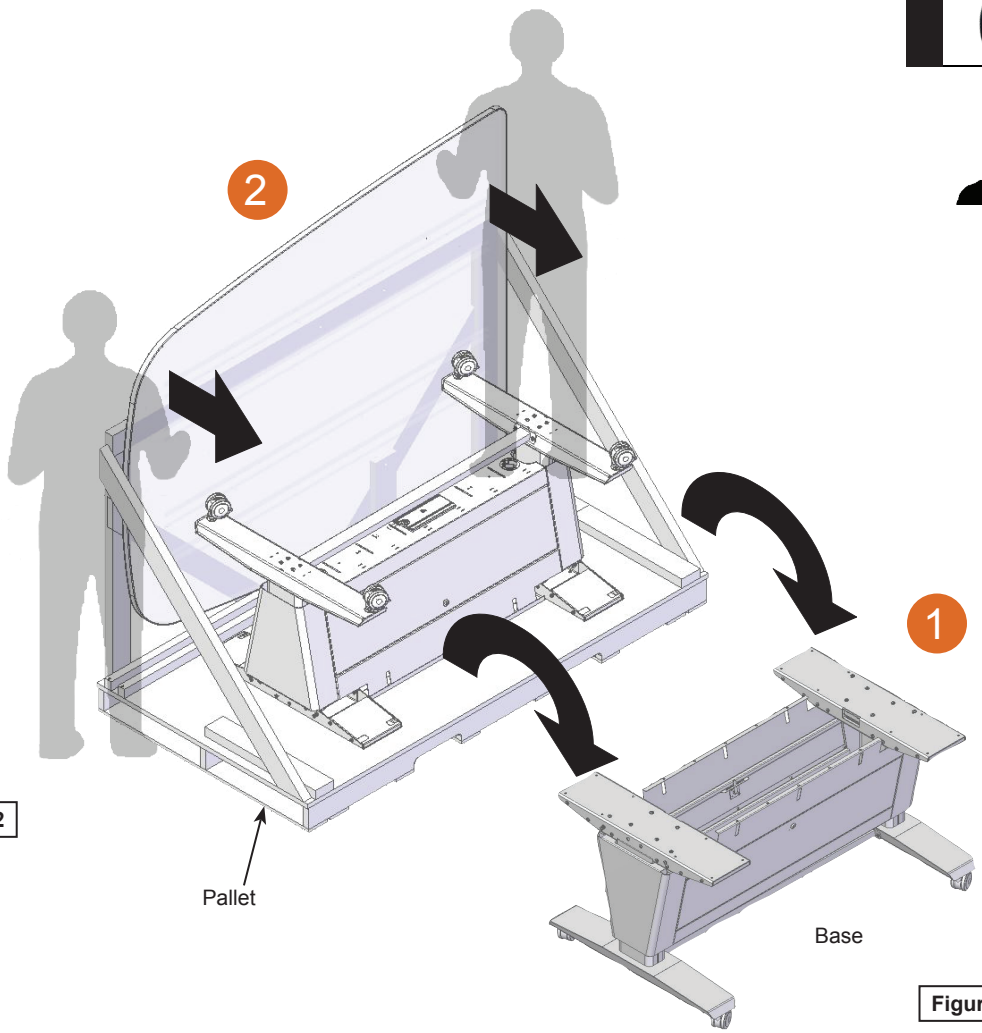



**Figure 2**

**Figure 1**

## 2. Remove worksurface from pallet

1. Remove the screws securing the worksurface to the pallet blocking.
2. Carefully lift the worksurface off pallet and proceed with step 3. **Figure 2**.

## 3. Install worksurface

1. Set the worksurface onto the base. **Figure 3**.
2. Attach worksurface by aligning the mounting holes and secure with 1/4-20 x 5/8" PHM screws.
   (The screws will attach to the worksurface reinforcement bars).

> ⚠ Note: If installing a display stand, do not secure worksurface to base yet. The worksurface will be aligned and secured after the display stand is attached.

**X 4**

Tools Required

Phillips screwdriver

or

Cordless drill with Phillips driver *(best)*

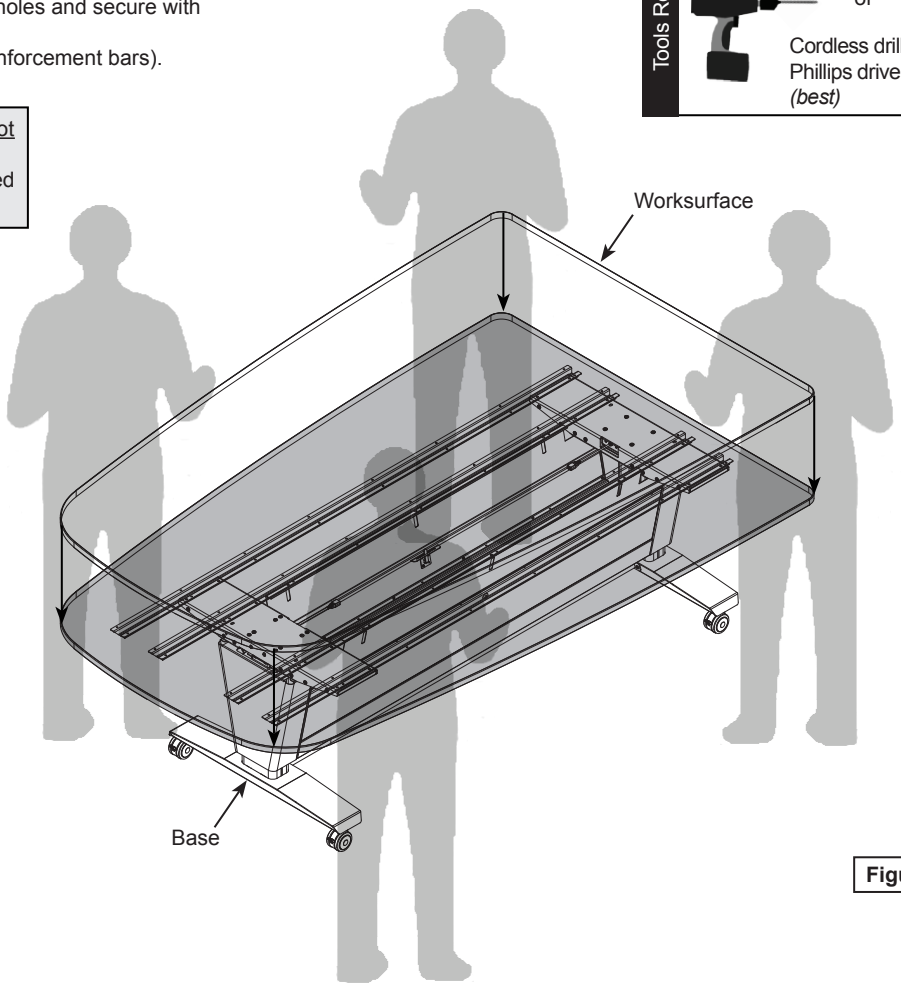



**Figure 3**

## 4. Display Stand

1. If you have the optional display stand, proceed with the assembly instructions included with stand. **Figure 4**.
2. Make sure all fasteners attaching the worksurface to the table base have been tightened.

Note: Requires mounting holes and cutout on flat end of worksurface.

Note: The assembled Display Stand accommodates most 37"-70" monitors up to 125 lb.

**⚠ WARNING ⚠**

The monitor should always be lifted off the stand before moving the table.

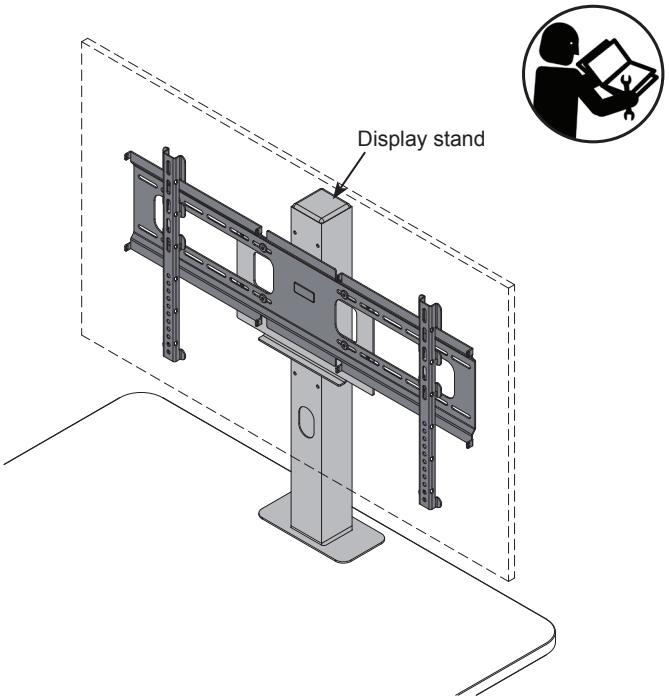



**Figure 4**

## 5. Install filler panel

1. Place the grommet panel under the worksurface at the flat edge. **Figure 5**.
2. Align the mounting holes and secure with (2) #10 x 3/4" PHSM screws.
3. Install in grommet.

Tools Required

Phillips screwdriver

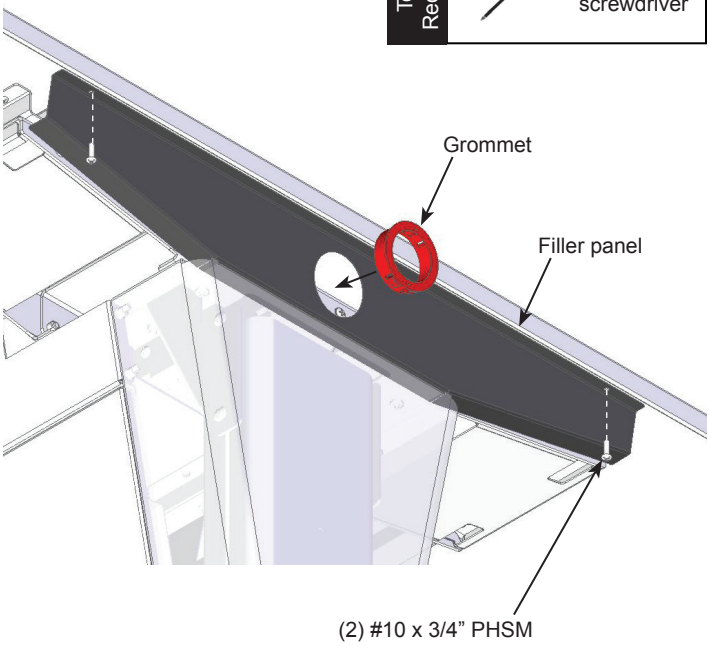



**Figure 5**

## Wiring

1. If your worksurface has cutouts for optional power modules or other components, install the devices then route and secure the cords using the wiring tray or AV channel underneath. **Figure 6**.

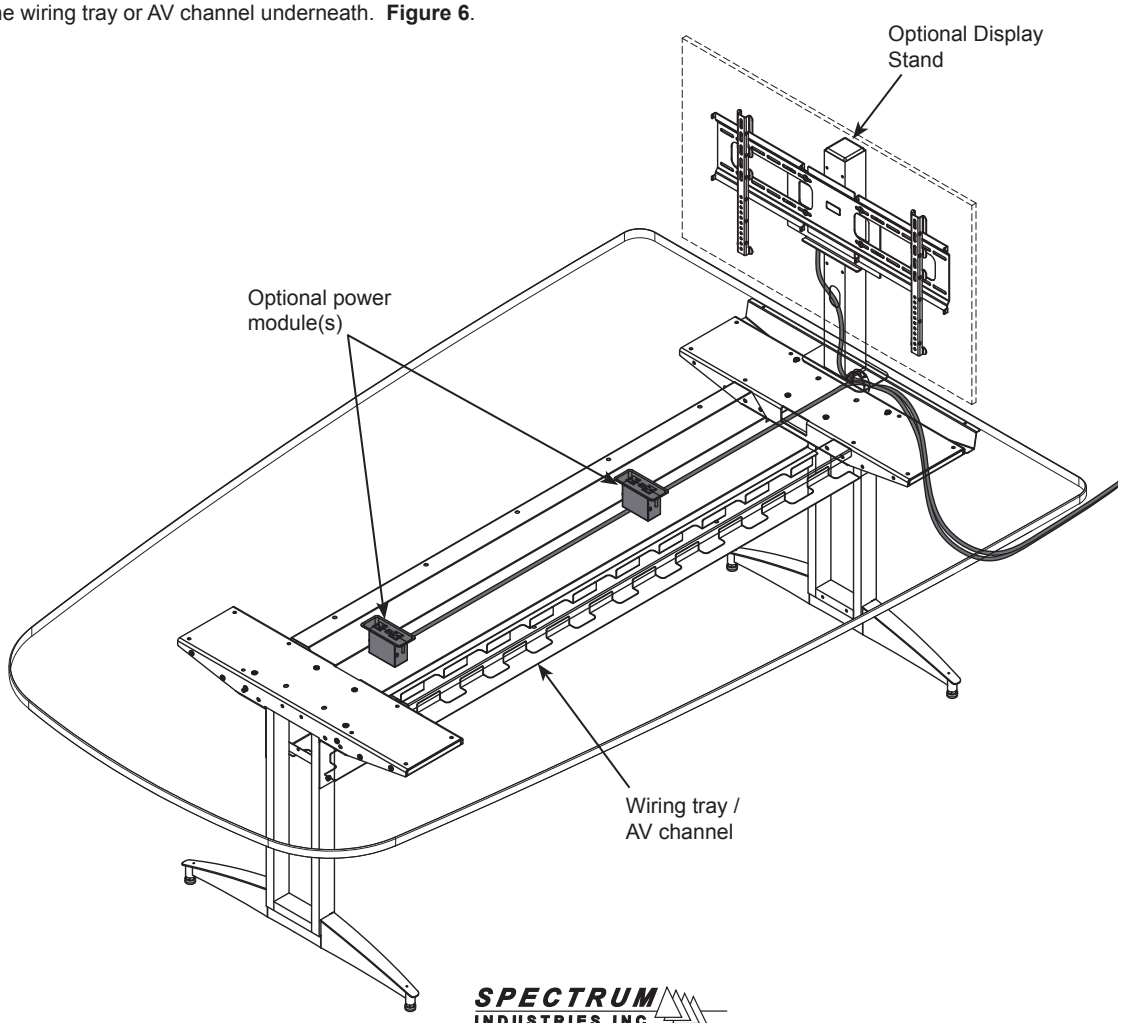



**Figure 6**

# eLift operating instructions - *eLift equipped tables only*

Tools Required: Phillips screwdriver

1. Attach the control button bracket under the radiused portion of the worksurface with (2) #8 x 5/8" PHSM screws and pre-drilled pilot holes in the center of the worksurface.
2. Push the control button onto the bracket.
3. Use the included pine tree clips to secure the cord to the worksurface.

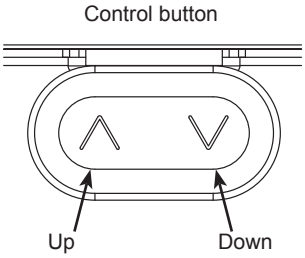



**Figure 7.1**

Note: Additional sets of pre-drilled mounting holes are available under the straight sections of the worksurface to mount the control button if preferred.

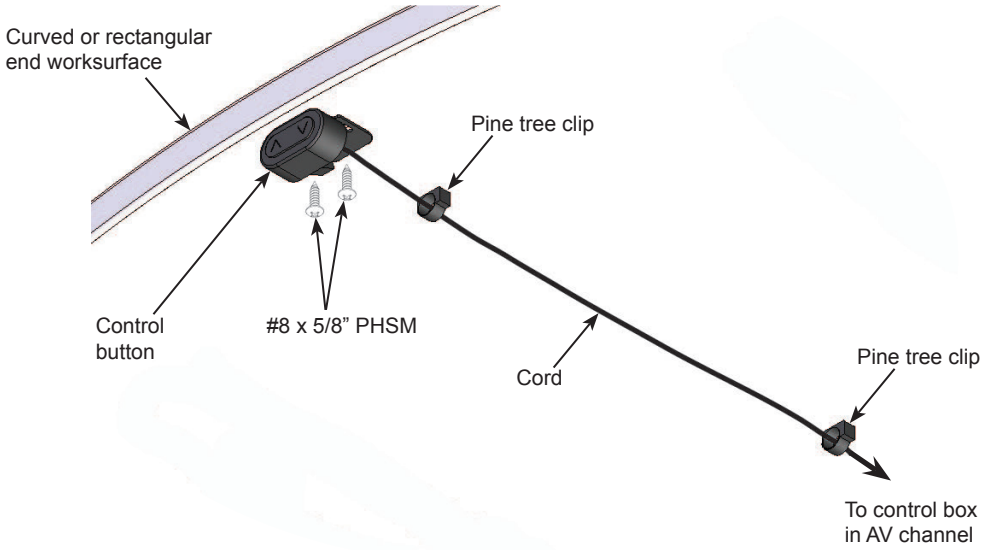



**Figure 7.2**

**Operation:**

1. Plug the 11-foot, 15-amp power cord into a wall outlet.
2. Locate the "Up" and "Down" buttons on the control pad.
3. To raise or lower the worksurface, press and hold the "up" or "down" arrow keys on the control pad until the worksurface reaches the desired height. The worksurface maximum height is 42", minimum height is 29".

   Keep clear of pinch points during worksurface movement.

**Reset Procedure:**

1. Unplug, then re-plug the power cord into a wall outlet.
2. Make sure all lift mechanism wire connections are in place and secure.
3. Remove anything located under the worksurface.
4. Press and hold the "Down" button to lower the worksurface to the lowest "work" position until it stops moving.
5. Release the "Down" button.
6. Press and hold the "Down" button again until the worksurface bottoms-out, slightly rises, and stops moving. The worksurface must be completely lowered before resuming operation.

   **Note: If the worksurface does not lower when doing this step, release the "Down" button, and retry step 6.**
7. Release the "Down" button. The lift mechanism has now been reset and the worksurface can be adjusted normally.

**⚠ CAUTION ⚠**

Keep clear of pinch points during worksurface movement.
Note: The lift actuators are rated at a maximum capacity of 180 lb each.

**⚠ CAUTION ⚠**

**Always unplug the eLift before working under the worksurface.**

Although this table utilizes an anti-collision feature that briefly stops and reverses the motion of the table in the event of an obstruction, **Use caution when raising or lowering the worksurface**! **Do not** sit at, under, or on the worksurface when operating the lift mechanism and be sure table movement does not interfere with objects or people.

**⚠ CAUTION ⚠**

**USE CAUTION WHEN RAISING OR LOWERING TABLE!**

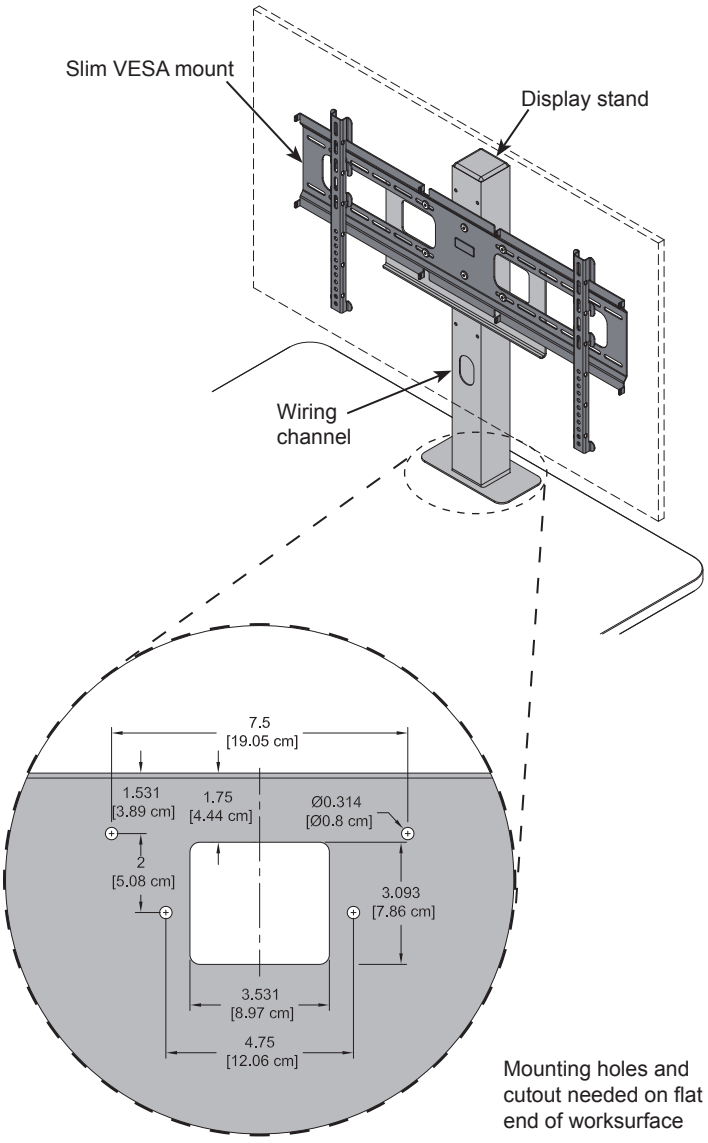
# Accessories

*(Available separately <u>after</u> initial configured purchase)*

**Display Stand - 37130**

- Bolts directly to worksurface
- Integrated wiring channel routes and hides wires
- Slim VESA mount (non-tilting)
- Adjustable (VESA-compatible) mount
- <u>Requires worksurface mounting holes and cutout</u>

| | | |
|---|---|---|
| Monitor size range: | 37”-70” [94-177.8 cm] diagonal | |
| VESA compatibility: | 400 x 200<br>300 x 300<br>600 x 400 | 400 x 400<br>800 x 400 |
| Max monitor weight capacity: | 125 lb [75 kg] | |
| Vertical adjustment:<br>(worksurface-to-center) | • 23.5”H [59.7 cm]<br>• 21.5”H [54.6 cm]<br>• 19.5”H [49.5 cm]<br>• 17.5”H [44.5 cm]<br>• 15.5”H [39.4 cm] | (5 vertical positions in 2” increments) |
| Shipping weight: | 35 lb [15.9 kg] | |




Mounting holes and cutout needed on flat end of worksurface

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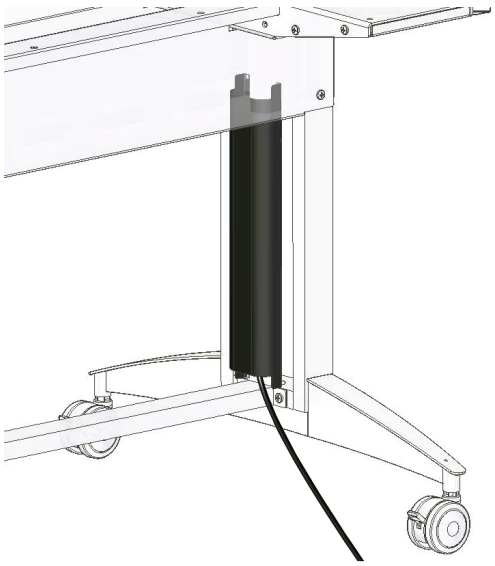
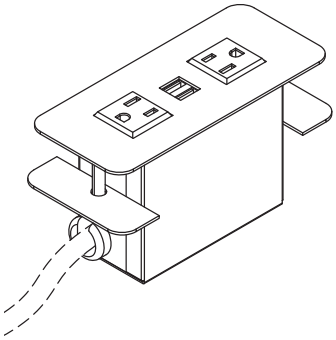
**Cord Chase - 38999**

- Cleanly routes wires and cords from cord channel or AV channel to the floor
- Compatible with eLift leg tables, and T-leg tables with laminate leg insert panel
- Two cord chases included
- 3"W [7.6 cm] x 1.425"D [3.6 cm] x 17"L [43.2]
- Shipping weight: 2 lb [.9 kg]



**Cove™ Power Module - 99044**

- Two power receptacles
- Two USB charge ports (not data-compatible)
- Thumbscrew clamps
- Requires worksurface cutout
- ETL listed
- Available in Black or Silver



| | |
|---|---|
| Cutout required: | 5.25” [13.3 cm] x 2” [5.1 cm] (mounts to surface thicknesses up to 1.5”) |
| Power cord: | 9’ [274 cm] with 90° flat plug with 45° rotation |
| Power receptacles: | 12A, 120 VAC spill-resistant |
| USB charging ports: | 2.1A (10.5W) |
| Dimensions: | 6”W [15.2 cm] x 2.5”D [6.35 cm] x 3.18”H [8.1 cm] |
| Unit weight: | 2.29 lb [1 kg] |

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**Drifter Power and USB Charging Hub - 99040**

- 360° Access to Power on three sides (1 AC power outlet and 2 USB charging ports per side)
- Easy installation-table cutout not required
- Includes mounting kit for permanent installations
- Cord length: 9'
- ETL listed
- Available in black or silver
- 10" [28.5 cm] x 2.85" [7.2 cm]
- Shipping weight: 8 lb [3.6 kg]

## Warning!

Failure to comply with these instructions may result in accidents involving serious personal injury. Failing to follow these instructions can result in the product being damaged or being destroyed.

## Safety Information

### General

Safe use of the system is possible only when the operating instructions are read completely and the instructions contained are strictly observed. Failure to comply with instructions marked with the "NOTE" symbol may result in serious damage to the system or one of its components.

- It is important for everyone who is to connect, install, or use the systems to have the necessary information and access to this User Manual. Follow the instructions for mounting – risk of injury if these instructions are not followed.
- The appliance is not intended for use by young children or infirm persons without supervision.
- If there is visible damage on the product it must not be installed.
- Note that during construction of applications, in which the actuator is to be fitted, there must be no possibility of personal injury, for example the squeezing of fingers or arms.

**Assure free space for movement of application in both directions to avoid blockade.**

### Before installation, re-installation, or troubleshooting:

- Stop the DL5/DL6
- Pull out the mains plug.
- Relieve the DL5/DL6 of any loads, which may be released during the work.

### Before start-up:

- Make sure that the system has been installed as instructed in this User Manual.
- Make sure that the voltage of the control box is correct before the system is connected to the mains.
- System connection. The individual parts must be connected before the control box is connected to the mains. See the User Manual for LINAK actuators, if necessary.

### During operation

- If the control box makes unusual noise or smells, switch off the mains voltage immediately.
- Take care that the cables are not damaged.
- Unplug the mains cable on mobile equipment before it is moved.
- The products must only be used in an environment, that corresponds to their IP protection.

### Misc.

The actuator system has a sound level below 55dB(A) in typical applications.

Updated manuals and declarations can always be found here:
www.linak.com/deskline

Label for DL6

### Only for EU markets

- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
- Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

### Only for Non-EU markets

- Persons who do not have the necessary experience or knowledge of the product/products must not use the product/products. Besides, persons with reduced physical, sensory or mental abilities must not use the product/products, unless they are under surveillance or they have been thoroughly instructed in the use of the apparatus by a person who is responsible for the safety of these persons.
- Moreover, children must be under surveillance to ensure that they do not play with the product.

### Misuse

- Do not overload the actuators – this can cause danger of personal injury and damage to the system.
- Do not use the actuator system for lifting persons. Do not sit or stand on a table while operating – risk of personal injury.
- Do not use the system in environments other than the intended indoor use.

### Repairs

In order to avoid the risk of malfunction, all DESKLINE® repairs must only be carried out by authorised LINAK workshops or repairers, as special tools must be used and special gaskets must be fitted. Lifting units under warranty must also be returned to authorised LINAK workshops.

**Warning!** If any of the DESKLINE® products are opened, there will be a risk of subsequent malfunction.

**Warning!** The DESKLINE® systems do not withstand cutting oil.

C/N 120690
C/N 9901916
C/N 4008003
C/N 4008004
C/N 4008005
C/N 4008671
C/N 4009507

**Note:** Use the included control box only-do not connect other control boxes to this product.

Label for CBD6S 200W (SMPS)

### Misc. on the DESKLINE® DL5/DL6 system

This system is a DESKLINE system developed for desks and for indoor use in offices. Do not use it in industrial kitchens or in other enviroments that have to be cleaned with aggressive detergents. Do not bolt the legs to the floor so that free movement is prevented. This could cause serious damage to the legs in fault situations.

### Warranty - 60 months on DESKLINE® (NEW)

This will be valid for all DESKLINE products produced after the 1st of May 2015.

Products produced before 1st of May 2015 will still be covered by 36 months.

Products used in DESKLINE application: If these products are used in another application, they will be covered by 18 months warranty.

If there is any doubt that returned products are within the warranty period it is to be treated as if they are covered by the warranty. We recommend that you use the date of the control box or actuator as reference if possible. We will have our purchase number printed on the label.

### Maintenance

Clean dust and dirt on the outside of the system at appropriate intervals and inspect them for damage and breaks. Inspect the connections, cables, and plugs and check for correct functioning as well as fixing points.

### Service of double-insulated products:

**Class II**

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.
There is no earthing / grounding means provided on the product, and no earthing/grounding means is to be added to the product.

In Europe, a double insulated appliance must be labelled “Class II”, “double insulated” or bear the double insulation symbol (a square inside another square).
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.

**The cleaners and disinfectants must not be highly alkaline or acidic (pH value 6-8).**

### Description of the DESKLINE® DL5/DL6 system

Each DESKLINE® DL5/DL6 lifting units is equipped with a motor and parallel / memory drive is ensured by means of software in the CBD6S (SMPS) that also takes account of oblique load on the desk. Soft start and stop are also part of this software, which ensures a soft start and stop when adjusting the desk.

### Application of the DESKLINE® DL5/DL6 system:

Irrespective of the load the **duty cycle 10% ~ 6 min./ hour or max. 2 min. at continuous use** stated in the data sheets, must **NOT** be exceeded as this will result in a superheating of the motor, the brake and the spindle nut. Exceeding the duty cycle will result in a dramatic reduction of the life of the system.

The DESKLINE® DL5/DL6 system range contains the following products:
- 1 control box CBD6S 200W or CBD6S 300W (SMPS - Switch Mode Power Supply)
- 1 single DL5/DL6 or 2 in parallel
- 1 exchangeable mains cable
- 1 or 2 motor cables
- 1 DP1U/DPF1M (if memory function is required) DP1C/DPT/DPF1C (if memory function and display is required) or DPF1D (if display is required).

### Electrical connection of the DL5/DL6 system

The DESKLINE® DL5/DL6 system is to be connected as shown in Figure 4. Each DL5/DL6 is to be connected to the sockets on the control box by means of the motor cables, which have a 6-pin plug on each end. Finally, the main power cable is to be mounted and power switched on.

Please note that the control box must only be connected to the voltage stated on the label.

Figure 4

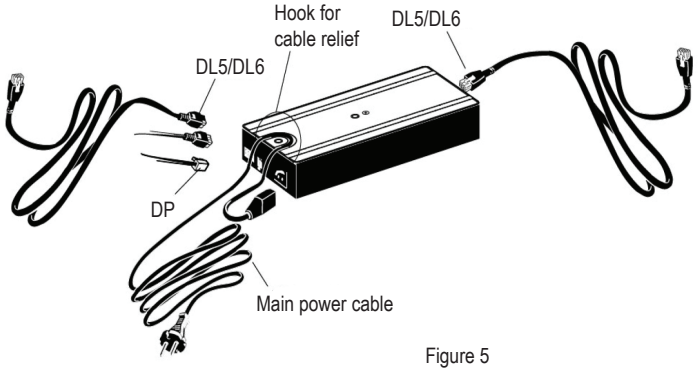



Figure 5

### Method of operation

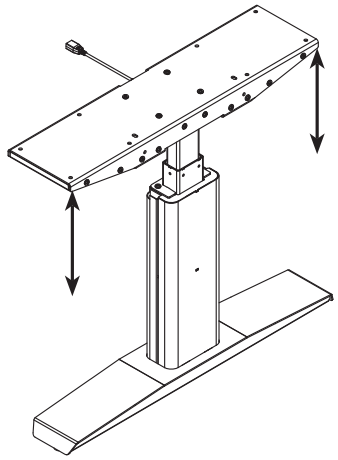
When the DL/DB’s are running, the CBD6S (SMPS) monitors the current consumption on each channel using a special algorithm. If the current consumption on one channel is increased more than a predefined slope, a collision is assumed and all channels are stopped immediately and all DL/DB’s will start to run in the opposite direction (approx. 50 mm). This return drive is done automatically and continues with or without any control key pressed (for max. 2.5 sec.).

The anti-collision sensitivity is different in upward and downward direction. Upwards the force is approx. 20 kg. Downwards the load will be approx. 40 kg + the load on the DL/DB (the desk + what is on top of the desk). The 40 kg are needed to activate the anti-collision function.

### Situations where the anti-collision does not work

There are situations where the anti-collision will not be activated. These situations are:
- If the collision happens during the initialisation phase
- If the collision happens within the first 1000 msec or after the control button has been released
- If the collision happens between the floor and the table and the load on the desk + the weight of the legs are lower than 40 kg
- If the collision happens over too long time, e.g. if the collision is with a soft object.

# eLift Leg Troubleshooting Guide



| Symptom | Problem | Solution |
|---|---|---|
| eLift legs will not operate | Loss of power | Be sure unit is plugged into a live circuit. |
| | Loose electrical connections | Make sure all electrical connections are securely plugged into the control box. |
| | Object encountered under worksurface | 1. Raise the worksurface by pressing the “Up” button.<br>2. Remove any items sitting below the worksurface.<br>3. Reset the lift mechanism (see below for procedure.) |
| | Misaligned actuators | **Reset Procedure:**<br><br>This table has a load-sensing, anti-collision feature in the controller that actively locks out the lift mechanism when unbalanced loads are encountered; i.e. weight from a person sitting on one side of the table. The following reset procedure should be performed if the lift mechanism becomes locked out and the table does not extend or retract.<br><br>**WARNING**<br>**The anti-collision feature does not function in RESET MODE. Do not sit at, under, or on the worksurface while resetting the lift mechanism. Be sure the table movement does not interfere with objects or people. Do not place any items under the worksurface.**<br><br>1. Unplug, then re-plug the power cord into a wall outlet.<br>2. Make sure all lift mechanism wire connections are in place and secure.<br>3. Remove anything located under the worksurface.<br>4. Press and hold the “Down” button to lower the worksurface to the lowest “work” position until it stops moving.<br>5. Release the “Down” button.<br>6. Press and hold the “Down” button for 30 seconds. The worksurface will lower, bottom-out, slightly rises, then stop moving. The worksurface must be completely lowered before resuming operation.<br>**Note: If the worksurface does not lower when doing this step, release the “Down” button, and retry step 6.**<br>7. Release the “Down” button. The lift mechanism has now been reset and the worksurface can be adjusted normally. |

# Warranty

**WE WILL MAKE IT RIGHT FOR YOU!**

Spectrum is committed to provide complete customer satisfaction. Each of our products is manufactured from the best materials available and each product is stringently monitored throughout the production process through our P.A.C.E. program (Product Assurance to meet Customer Expectations).

We expressly warrant that Spectrum products will be of good quality and workmanship and free from defect for the period set out in the warranty table below from the date of delivery. This warranty shall not apply to defects or damage resulting from misuse, abuse, neglect, improper care, modification or repair not authorized by Spectrum, or any other cause outside the control of Spectrum. Spectrum will, at its sole option, either repair or replace the defective product.

This warranty is exclusive; no other warranty, written or oral, is expressed or implied. This warranty is given by Spectrum to Buyer and to no other person or legal entity. No Spectrum dealer, distributor, agent or employee is authorized to make any modification or addition to this warranty.

**NOTWITHSTANDING ANYTHING TO THE CONTRARY, SPECTRUM WILL NOT UNDER ANY CIRCUMSTANCES BE LIABLE FOR INDIRECT OR LIQUIDATED DAMAGES, INCLUDING CONSEQUENTIAL, INCIDENTAL AND SPECIAL DAMAGES. IN NO EVENT SHALL SPECTRUM'S LIABILITY, WHETHER UNDER CONTRACT OR WARRANTY, IN TORT OR OTHERWISE, EXCEED THE PURCHASE PRICE RECEIVED BY SPECTRUM FOR THE PRODUCT AT ISSUE AND "RECALL ACTION" EXPENSES. SPECTRUM SHALL NOT BE SUBJECT TO ANY OTHER OBLIGATIONS OR LIABILITIES, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORIES OF LAW, WITH RESPECT TO PRODUCTS SOLD OR SERVICES RENDERED BY SPECTRUM, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATING THERETO.**

Our Customer Service Department is ready to provide immediate attention to any questions, comments or concerns. They are available to answer your calls Monday through Friday from 7 am to 5 pm CST. In addition your product comments or concerns are welcome via e-mail at: spectrum@spectrumfurniture.com.

**Warranty Table**

| Item | Warranty Period effective 1/1/2015 |
|---|---|
| Adjustable Crank / Electric Desk Legs | • 1 Year |
| Flat Panel Desk Gas Cylinders | |
| Chairs<br>• Adjustable Height Chair Parts – including frames, gas cylinders, wood and plastic parts, control handles, casters<br>• Adjustable Height Chair Upholstery<br>• In-Stock Upholstery<br>• Graded-In Fabrics and Customer Owned Material | • 7 Years<br>• 2 Years<br>• 2 Years<br>• No Warranty |
| Height Adjustable Columns and Lifts | • 1 Year |
| General Use Casters | |
| Electrical (including timers and LINAK actuators) | • 2 Years |
| Keyboard / Mouse Trays | • 1 Year |
| Flat Panel Monitor Arms<br>• Flat Panel Monitor Arm – General Parts<br>• Flat Panel Monitor Arm – Gas Cylinders | • 5 Years<br>• 2 Years |
| Desks and Lecterns<br>• Computer Desk Chassis<br>• Cart Chassis<br>• Lectern Chassis | • 10 Years |

DESIGNED AND ASSEMBLED IN CHIPPEWA FALLS WISCONSIN.USA

QUALITY SYSTEM CERTIFICATION DNV·GL ISO 9001

CERTIFIED INDOOR AIR QUALITY™ SCS GLOBAL SERVICES



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