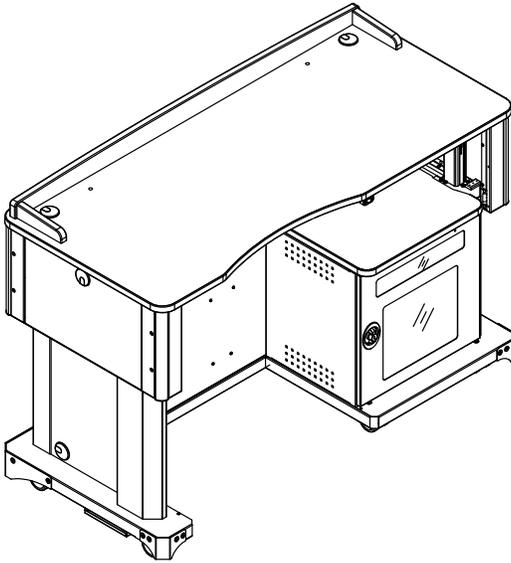
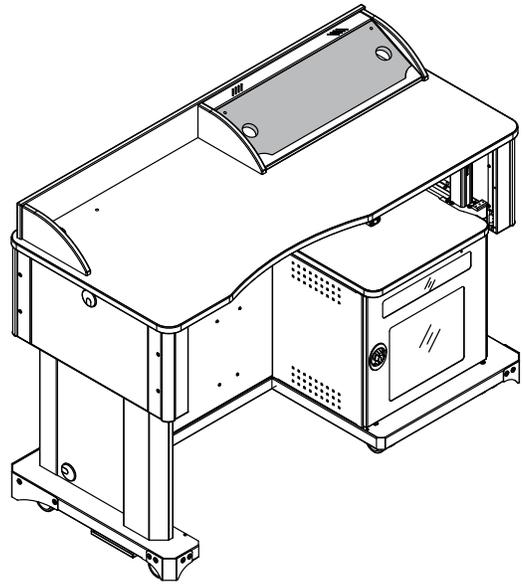


Freedom Lectern XRS™

55288	with left-hand rack rail	55286	with left-hand rack rail and Overbridge Control Console™
55287	with right-hand rack rail	55285	with right-hand rack rail and Overbridge Control Console™



Freedom Lectern XRS
55287



Freedom Lectern XRS with OCC
55285
shown with optional insert panel
(shaded)

⚠ 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 15 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

Spectrum product page:

<http://bit.ly/FreedomLecternXRS>



Important Safety and Care Instructions

- Read this owner's manual before assembly or operation.
- Do not allow children to move the lectern.
- Proceed slowly and carefully when moving the lectern.
- For indoor use only. Do not install or store the lectern where it will be exposed to moisture.
- Do not block the ventilation openings.
- Avoid uneven loading of the equipment into the lectern. Uneven weight distribution could cause the lectern to tip when the lectern is moving.
- Do not allow anyone to sit, stand, or climb on the lectern.
- 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 lectern 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.

Electrical Safety:

- Do not plug the power cord into an extension cord.
- Inspect power cords for damage before each use. Do not use power cords that are damaged.
- Unplug power cord from electrical outlet by gripping the cord. Do not unplug the power cord by pulling only on the cord.
- Do not step on, drive over, drag, or place objects on the power cord.
- For added safety, plug the lectern into a grounded outlet controlled by a GFI (Ground Fault Interrupter) circuit breaker.
- Electrical devices are not toys. Children are often unaware of the hazards associated with electrical devices. This lectern must always be used by adults or with adult supervision.

CAUTION

Always unplug lectern before working under the work-surface or inside rack cabinet. Do not place anything under worksurface when operating lift. Use caution when raising or lowering the worksurface!

Unloading lectern

Note: Upon receiving lectern, inspect packaging for damage. To report information regarding damages, please call 1-800-235-1262 within 15 days of receipt.

1. Cut and remove banding using a utility knife, scissor, or other cutting tool.
2. Remove steel corners by removing screws using Phillips screwdriver.
3. Open top of box by unfolding flaps.
4. Remove plywood ramp from package. Place on floor next to the pallet. **Figure 1.** This will be used to unload the lectern off the pallet.
5. Remove cardboard sleeve by lifting it up and over the lectern.
6. Remove protective shrink-wrap from lectern using a utility knife, scissor, or other tool. Be careful not to damage the lectern when cutting shrink-wrap
7. Remove Styrofoam corner blocks.
8. Remove foam block between worksurfaces.
9. Using the ramp, carefully move and lower the lectern off the pallet onto the floor.
10. Proceed with lift mechanism set-up instructions below.

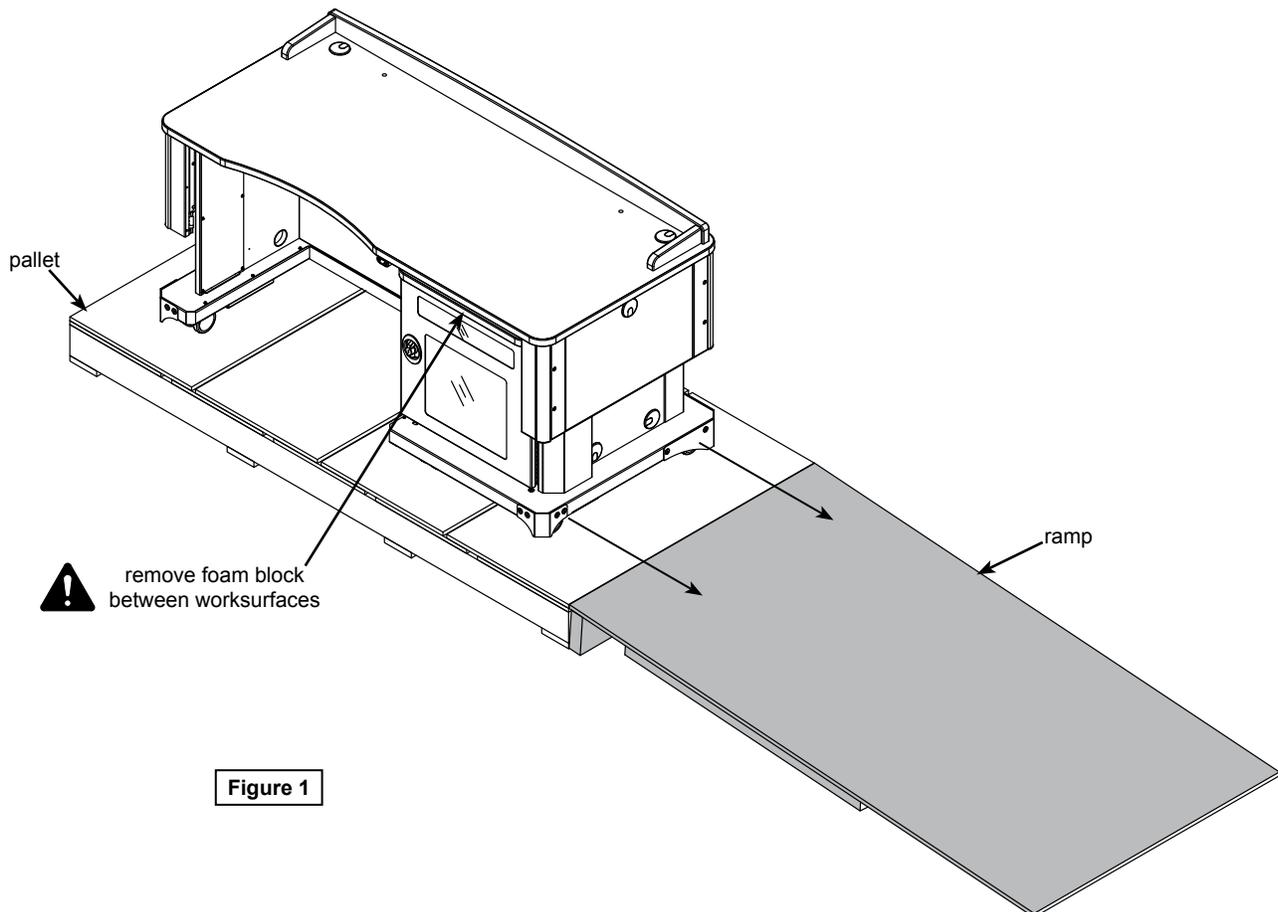


Figure 1

Lift mechanism initial setup, operation, and reset procedure

Preparation:

- Read all instructions before doing the set-up or reset procedures.
- Make sure lectern is plugged-in using 15-foot, 15-amp power cord located on lower/audience-side of side panel.
- Close cabinet door. Damage may occur to cabinet door if left open during worksurface movement.
- Locate the "Up" and "Down" buttons on the control pad. Control pad is located on the instructor-side under worksurfaces front edge on opposite side from rack cabinet.
- Keep clear of pinch points during worksurface movement.

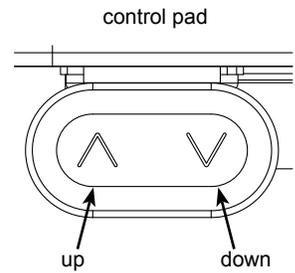


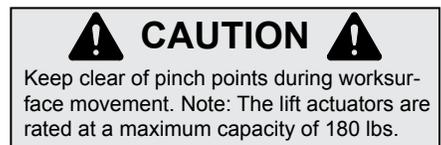
Figure 2A

Initial Setup:

1. Press and hold the "Down" button for a few seconds. **Figure 2A.** The worksurface will lower to the lowest "work" position and then stop moving.
2. Release the "Down" button.
3. Press and hold the "Down" button again for 30 seconds. The worksurface will lower to the "reset mode" position, slightly rise, then stop moving. Note: If the worksurface does not lower when doing this step, release the "Down" button, then repeat this step.
4. Release the "Down" button. You may now adjust the worksurface to desired height.

Normal Operation:

To raise or lower the lectern, 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 40", minimum height is 31".



Reset Procedure:

This lectern 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 lectern. The following reset procedure should be performed if the lift mechanism becomes locked out and the lectern does not extend or retract.



WARNING

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 lectern movement does not interfere with objects or people. Do not place any items on top of the rack cabinet.

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 any worksurface or overbridge panel-installed electronics above the rack cabinet. Remove the rack cube (if equipped) and make sure the cabinet door is closed.
4. Remove anything located on top of the rack cabinet worksurface.
5. Press and hold the "Down" button to lower the worksurface to the lowest "work" position until it stops moving.
6. Release the "Down" button.
7. Press and hold the "Down" button again and hold for 30 seconds. The worksurface will then lower slowly to the RESET MODE position, slightly rise, and stop 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 7.

8. Release the "Down" button. The lift mechanism has now been reset and the worksurface can be adjusted normally.

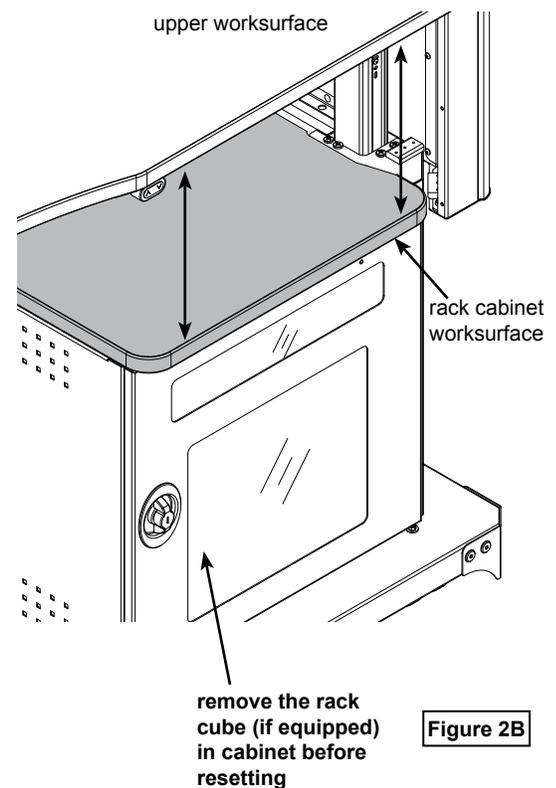


Figure 2B

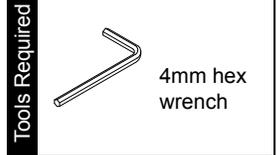


CAUTION

Always unplug the lectern before working under the worksurface or inside rack cabinet. Do not place anything under the worksurface when operating lift. Although this desk utilizes an anti-collision feature that briefly stops and reverses the motion of the desk 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 lectern movement does not interfere with objects or people. **Do not** place any items on top of the rack cabinet. **Use caution when raising or lowering the worksurface!**

Audience-side panel removal / replacement

When the worksurface is raised to the highest position, the two audience-side panels can be removed to access the components inside the lectern such as the actuators, control box, connections, safety limit switch, and power strip.

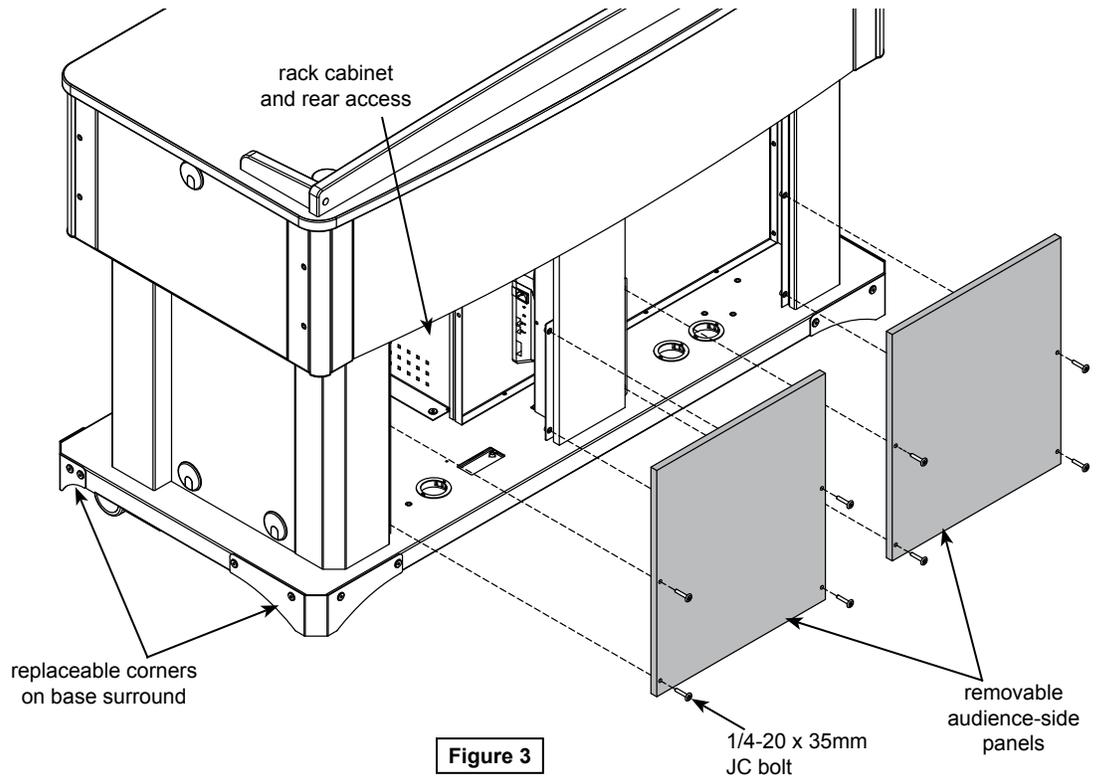


To remove panels:

1. Raise the worksurface to the highest position. (see lift mechanism operation)
2. Locate the 8 (4 per panel) 1/4-20 x 35mm JC bolts. **Figure 3.**
3. Unscrew the bolts with a 4mm hex wrench.
4. Remove panels.

To replace the panels:

1. Realign the panel bolt holes with the lectern mounting holes.
 2. Insert bolts through panel bolt holes and into lectern mounting holes.
 3. Reinstall the bolts using a 4mm hex wrench.
- Note: Do not over tighten bolts.*

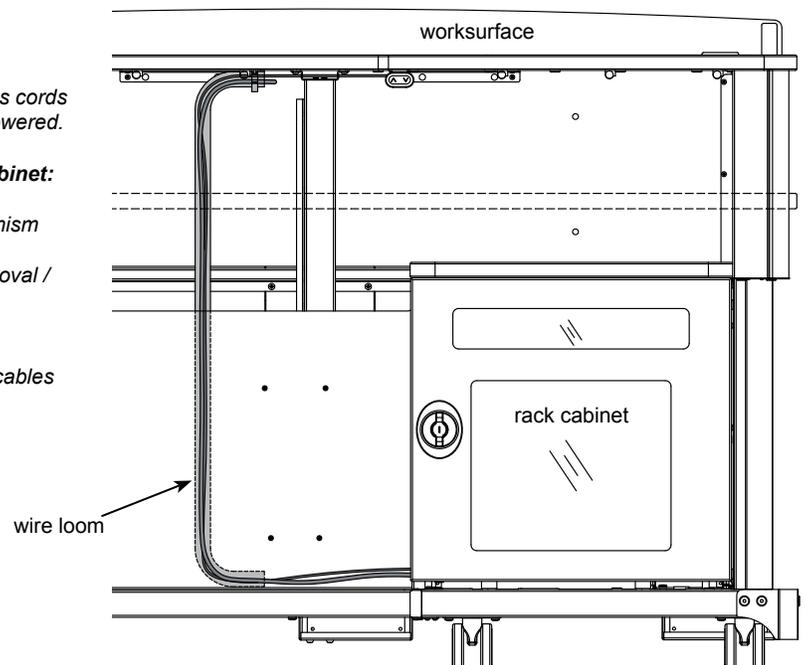


Cord management

The wire loom (accessible behind the presenter-side panels) keeps cords organized and routed safely while the worksurface is raised and lowered.

To route cords and wires from the worksurface to the rack cabinet:

1. Raise the worksurface to the highest position (see lift mechanism operation section).
2. Remove audience-side panels (see audience-side panel removal / replacement section above).
3. Locate the wire management loom assembly. **Figure 4.**
4. Push cords inside wire loom to route cords to and from the worksurface. *Note: Be sure enough slack is provided in the cables when lectern is fully extended.*
5. Replace presenter-side panels.



Quick-release door hinge operation

To remove door:

1. Open door wide enough to be able to access the quick-release hinge.
2. Support door with one hand.
3. With other hand, push-down on the quick-release hinge lever until the upper hinge pin clears the upper hinge pin hole. **Figure 5A.**
4. Hold the quick-release hinge lever down while tipping the top of the door away from the lectern.
5. Release the quick-release lever and lift the door up and away from lectern to remove the lower hinge pin from the lower hinge pin hole.
6. Place the door in a safe location so it does not get damaged.

To re-attach door:

1. Place the lower hinge pin into the lower hinge pin hole. **Figure 5.**
2. Push down on the quick-release hinge lever until it reaches its lowest position and hold.
3. Align the upper hinge pin to the upper hinge pin hole.
4. Release the quick-release hinge lever.
5. The door now is attached and can be opened and closed normally.

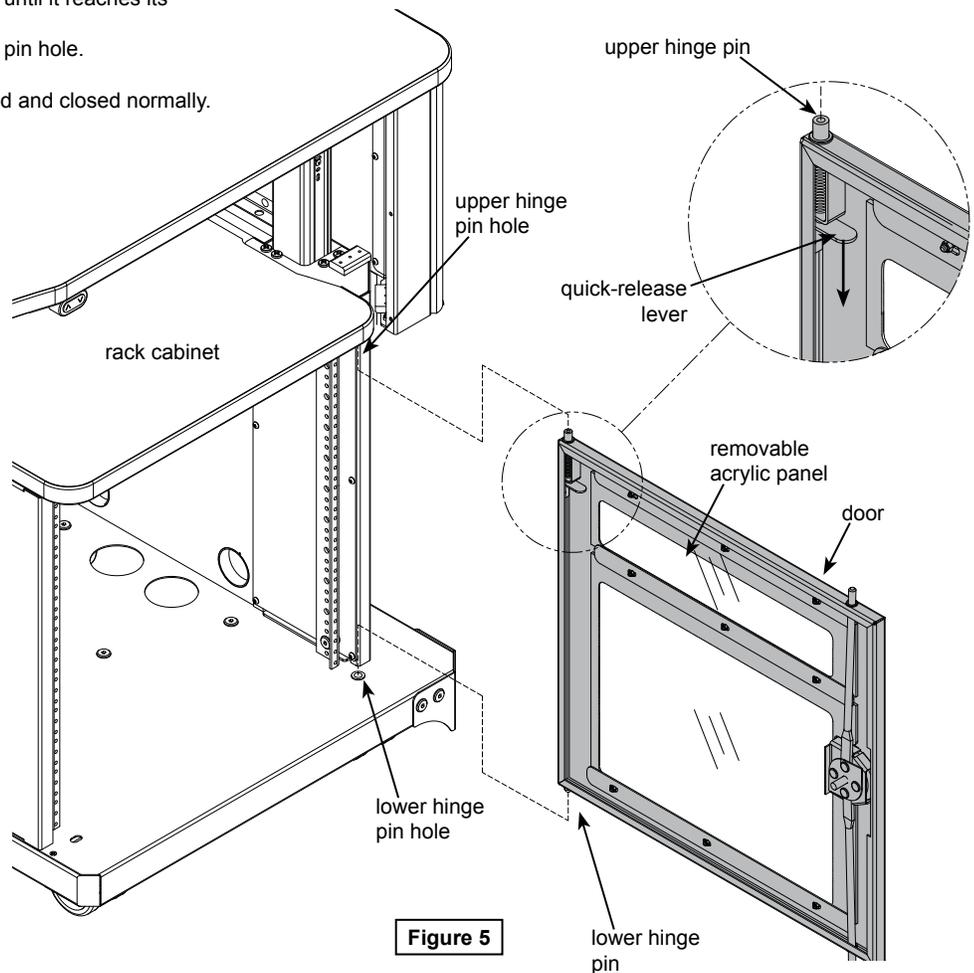
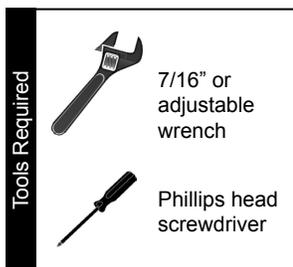


Figure 5

Door alignment procedure:

If the door appears to be misaligned, a slight adjustment can be made to the bottom hinge-side of the door. **Figure 5A.**

1. Using the quick-release lever, remove the door.
2. Set the removed door on a non-abrasive worksurface.
3. Slightly loosen the nylon locknut on the bottom corner of the door with a 3/8" or adjustable wrench and Phillips screwdriver.
4. Reposition the locknut and screw on the bottom of the door as required:
 - A. Move nut and screw away from the handle-side of the door to raise the handle-side of the door.
 - B. Move nut and screw toward the handle-side of the door to lower the handle-side of the door.
5. After adjustment, be sure the locknut is tightened securely.
6. Reinstall door and check alignment.
7. Repeat this procedure if necessary.

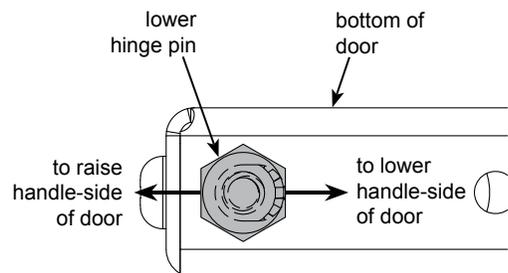


Figure 5A

Overbridge insert panel (overbridge lecterns only)

Note: The insert panel shown (*shaded*) is not included with the lectern or overbridge. This option needs to be ordered separately to complete the overbridge.

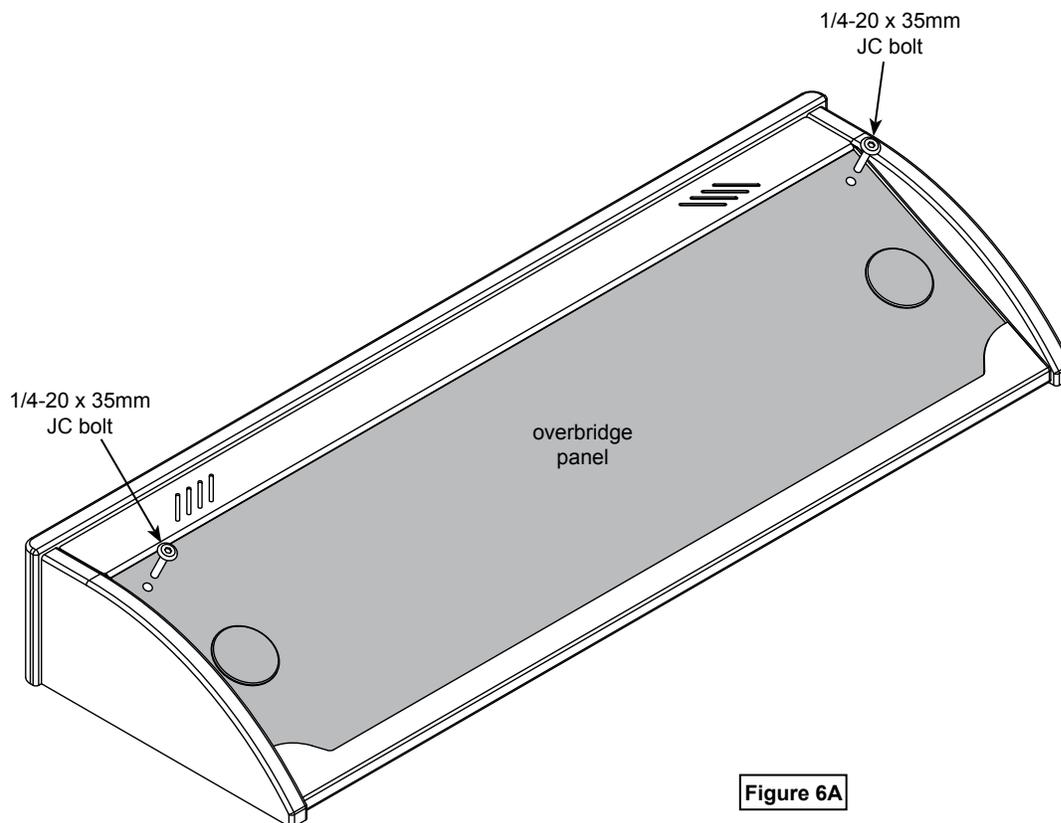
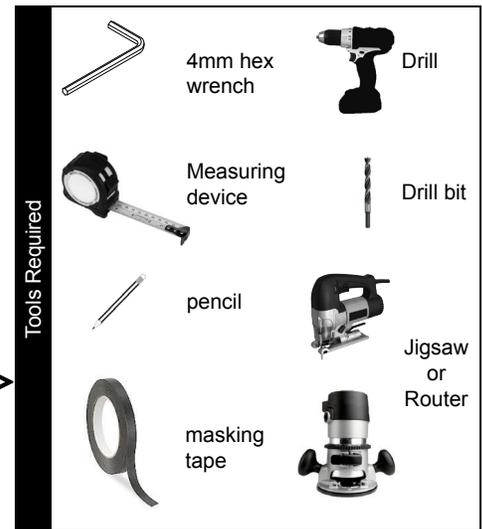
1. To remove the overbridge insert panel, remove the (2) 1/4-20 x 35mm JC bolts with a 4mm hex wrench and lift out the panel. **Figure 6A.**

2. To make cutouts in the insert panel [optional]:

1. Identify all location(s) and sizes for controller(s) or electronics while making sure all devices fit within the maximum cutout space available in the overbridge panel. See **Figure 6A, 6B.**
2. Locate and mark the exact cutout area(s) on the panel.
Note: Using masking tape on cut lines will minimize laminate chipping while cutting.
3. Carefully make the cutout(s) in the overbridge panel using a jigsaw or router.

3. Install controller(s) / electronics into panel.

4. Re-install the overbridge panel and secure with (2) 1/4-20 x 35mm JC bolts.



Note: Blank overbridge panels require the customer to make necessary cutouts with a jigsaw or router. This has a moderate difficulty rating, so experience and skill with tools is required.

Freedom Lectern XRS overbridge insert panel blank
(flat view)

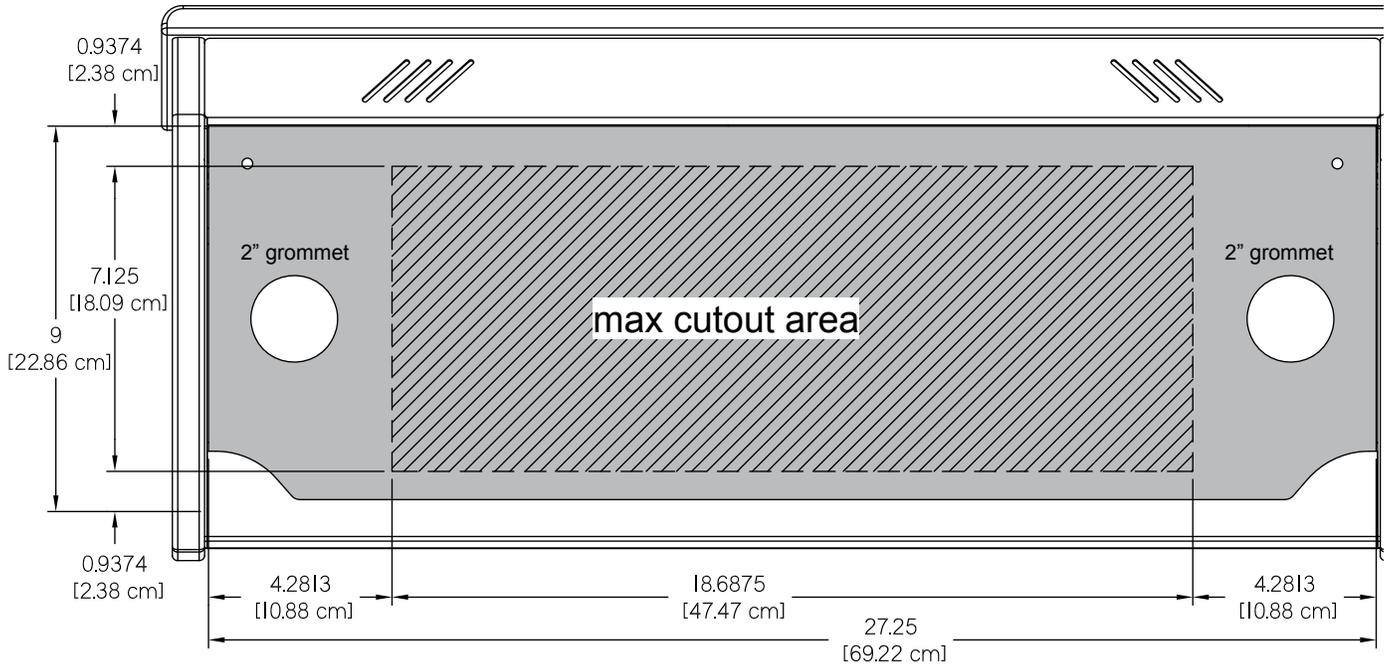
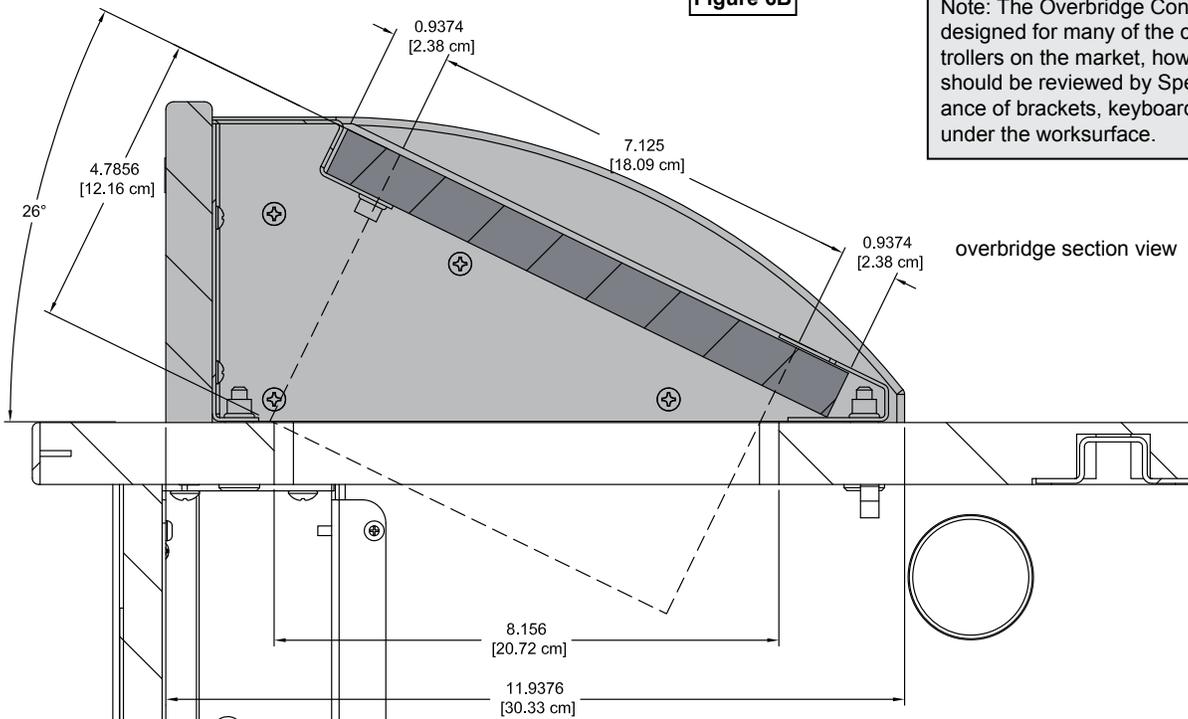


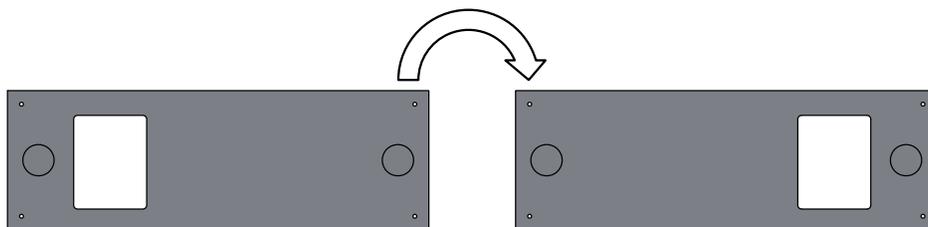
Figure 6B

Note: The Overbridge Control Console™ has been designed for many of the currently available controllers on the market, however, modified cutouts should be reviewed by Spectrum to ensure clearance of brackets, keyboard slides, or other objects under the worksurface.



Note: The insert panel shown (shaded) is not included with the lectern or overbridge. This option needs to be ordered separately to complete the overbridge. This insert panel is horizontally symmetrical and can be easily removed, rotated, and re-installed if a cutout needs to be relocated to the opposite side of the overbridge.

Figure 6C



Wiring Diagram

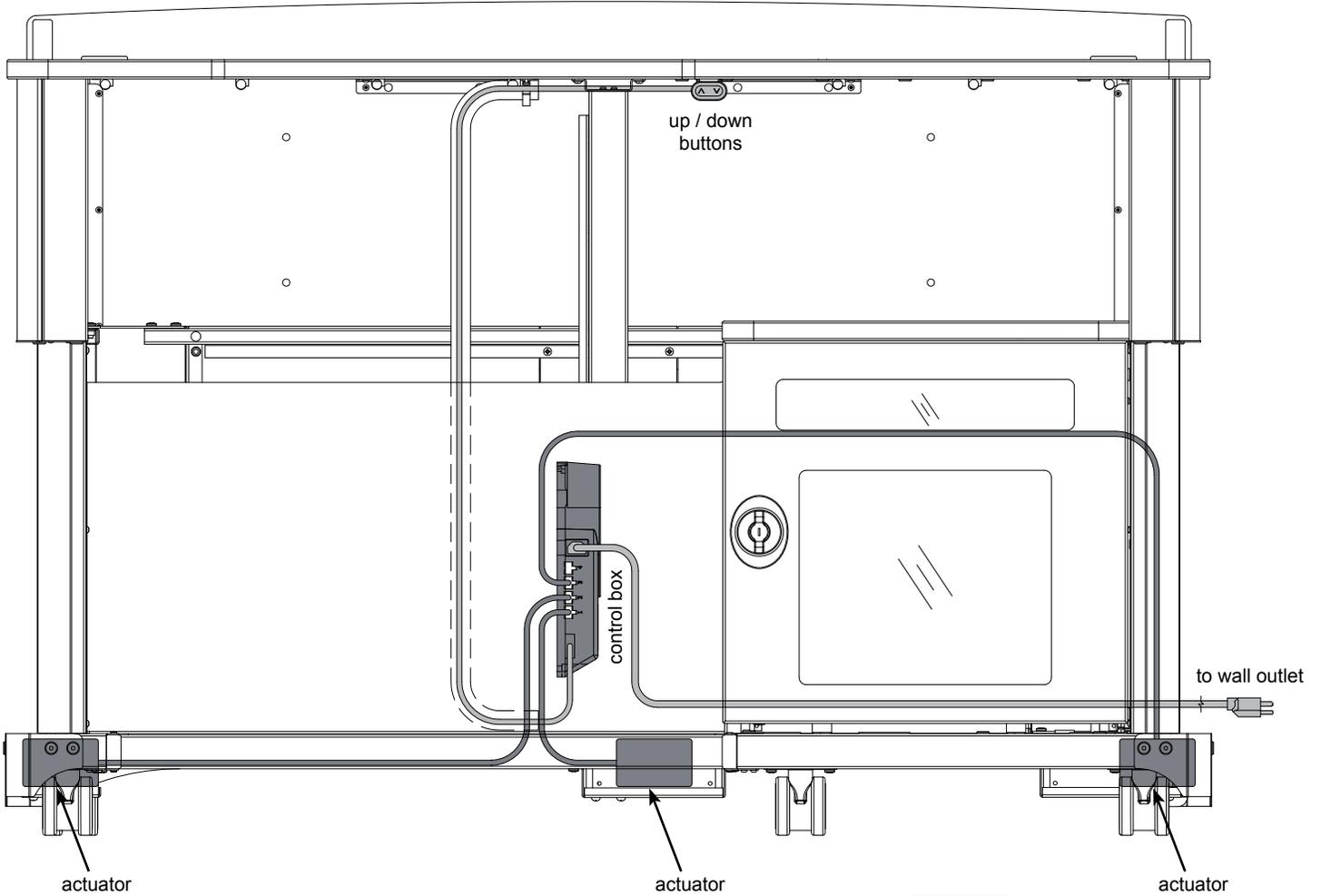


Figure 7

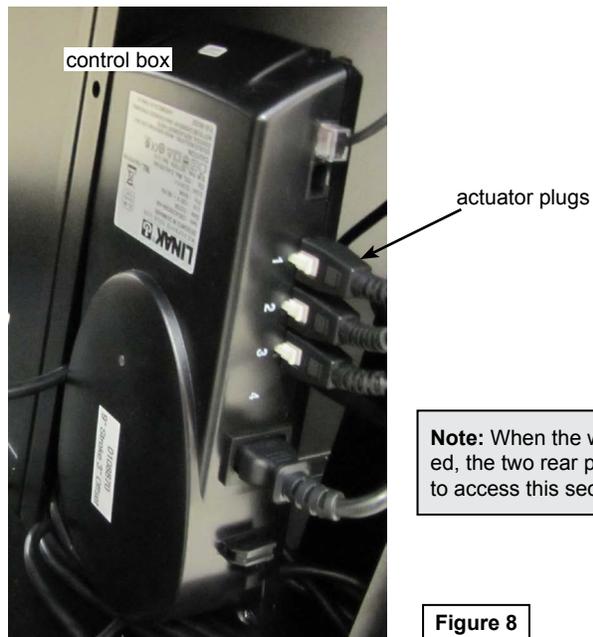


Figure 8

Caster operation

1. To lock the caster rotation, press the brake lever. **Figure 9.**
2. To resume operation, lift up on brake lever.

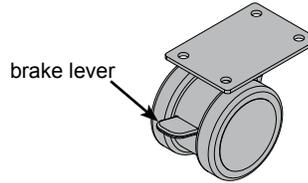


Figure 9

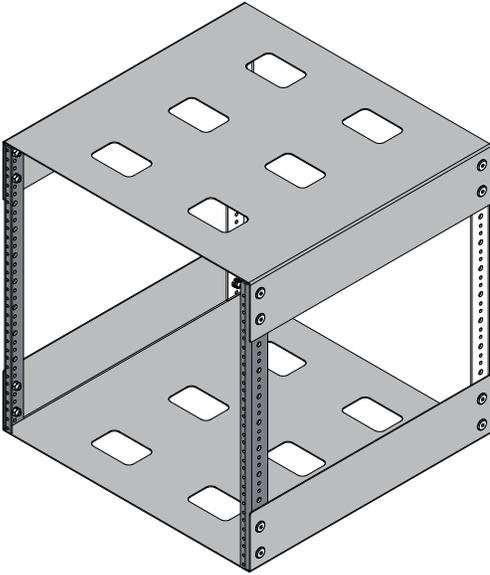
Moving and parking the lectern

- Before moving, unplug and secure all power cords.
- Close and lock doors.
- Remove any items from the top of the worksurface.
- Unlock the casters.
- Push slowly and carefully. Do not move over uneven or irregular surfaces.
- Do not allow children to move.
- Lock the casters after moving.
- Do not park unit in areas of heavy traffic.
- Do not run power cords across hallways, classrooms, or other areas where they will be walked on.
- Do not leave unit unattended in areas where children have access.
- Keep doors closed and locked whenever unit is unattended or parked.
- Keep casters locked whenever the lectern is unattended.

 WARNING AVERTISSEMENT ADVERTENCIA 									
CAN TIP OVER RESULTING IN RISK OF INJURY. DO NOT ALLOW CHILDREN UNDER 16 TO MOVE CART. MOVE CART SLOWLY.		ONLY ADULTS SHOULD MOVE THIS UNIT		APPLY MOVING FORCE ON NARROW DIMENSION		NEVER APPLY FORCE AT TOP ALWAYS PUSH NEAR MIDDLE		PUSH, DO NOT PULL	
LE MEUBLE POURRAIT SE RENVERSER ET CAUSER DES BLESSURES. NE LAISSER PAS LES ENFANTS DE MOINS DE 16 ANS DÉPLACER CELUI-CI. DÉPLACER LE MEUBLE LENTEMENT.		CE MEUBLE DOIT ÊTRE DÉPLACÉ UNIQUEMENT PAR DES ADULTES.		POUSSER DANS LE SENS DE LA LONGUEUR.		NE JAMAIS EXERCER LA FORCE EN HAUT. POUSSER PRÈS DU MILIEU.		POUSSER, NE PAS TIRER.	
PUEDE VOLCARSE Y PROVOCAR LESIONES. NO PERMITA QUE LOS NIÑOS MENORES DE 16 AÑOS MUEVAN EL CARRO. MUEVA EL CARRO LENTAMENTE.		SOLO LOS ADULTOS DEBERÁN MOVER ESTA UNIDAD		APLIQUE LA FUERZA MOTRIZ EN DIMENSIONES ESTRECHAS		JAMÁS APLIQUE FUERZA EN LA PARTE SUPERIOR. SIEMPRE EMPUJE CERCA DE LA PARTE INTERMEDIA		EMPUJE, NO JALE	

0108899

Options



Slide-in Rack Cube 11RU
19.125"W x 19"D x 19.75"H
55313

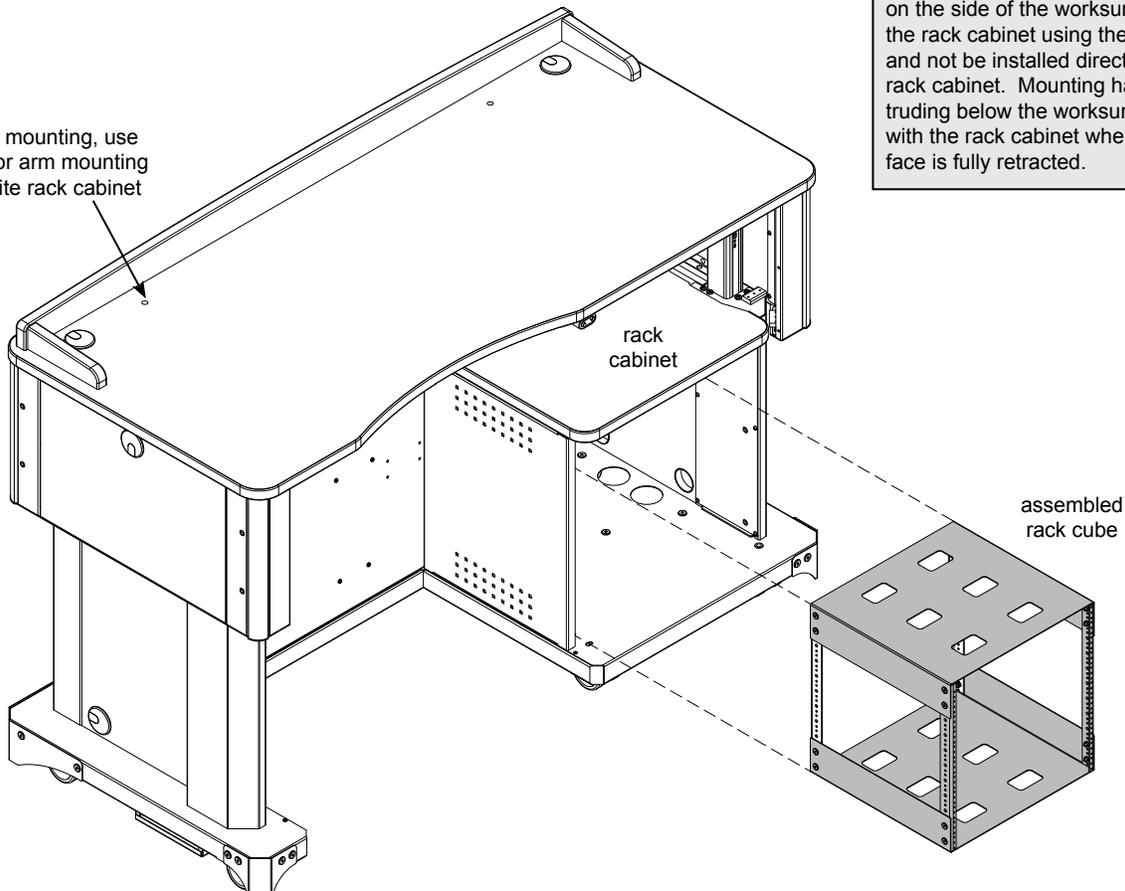
Note: The two existing 11RU rack rails in the rack cabinet must be removed and used in the slide-in rack cube. The cube has front and rear rack rails (11RU available per set) and polyethylene slides on the bottom for easy movement. Attachment to the rack cabinet is not required.

Rack-mount equipment greater than 19.5" in depth will not fit within the slide-in cube.

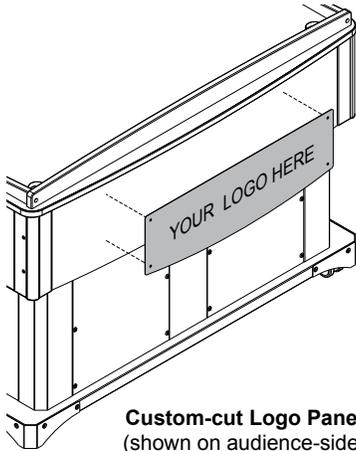
Verify depth dimension of all equipment to be installed in the cube.

The cube should be removed from the rack cabinet before performing the worksurface reset procedure.

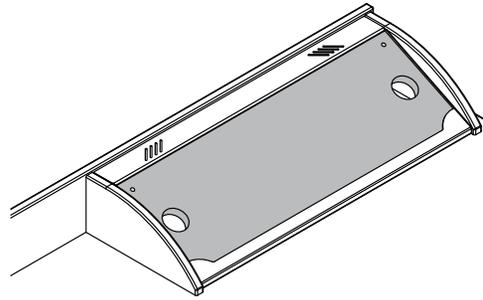
for monitor mounting, use .375" monitor arm mounting hole opposite rack cabinet



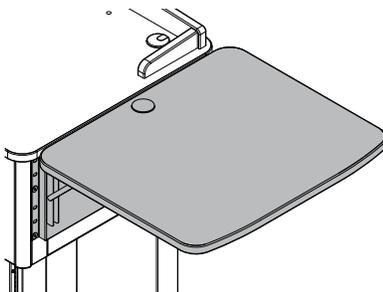
Note: Monitor arms should be mounted on the side of the worksurface opposite the rack cabinet using the provided hole and not be installed directly above the rack cabinet. Mounting hardware protruding below the worksurface will collide with the rack cabinet when the worksurface is fully retracted.



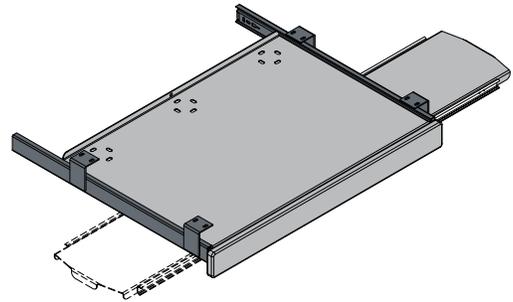
Custom-cut Logo Panel
 (shown on audience-side)
 35.25"W x 11"H
 55303



Overbridge Insert Panel
 for overbridge version only-contact Spectrum to specify cutout size(s) and position(s)-overbridge not available separately
 (includes two 2" grommets with covers)
 96504 - blank panel
 96504mod - panel with cutout(s)



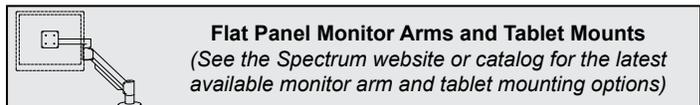
Flip-up Shelf
 23"W x 27.375"D
 (mounts on left or right side)
 includes 2" grommet
 (50 lbs max load)
 max 2 per unit
 55301



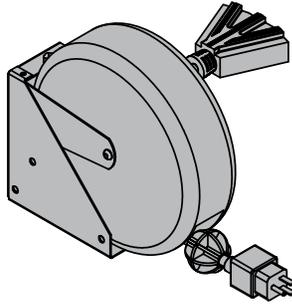
Pull-out Worksurface Tray
 with L or R sliding mouse pad tray
 19.0625"W x 14.1875"D
 (height between worksurface and tray
 is adjustable from 1.25" to 2.5625"H)
 max 1 per unit
 55302

Note: Power and communication wiring for document cameras, laptop computers, and/or projectors placed on the flip-up shelf should be routed on top of the audience-side of the shelf. Use of the shelf grommet hole for wiring will result in pinching of the cords when the shelf is folded.

Note: CPU slings cannot be used with Freedom XRS lecterns because of mounting and ADA-compliance considerations. If a CPU is necessary, it can and should be installed into the rack cabinet using a rack-mount shelf. (See p.14 for rack-mount accessories.)



Flat Panel Monitor Arms and Tablet Mounts
 (See the Spectrum website or catalog for the latest available monitor arm and tablet mounting options)



Note: The 99037 cord reel can be mounted on the rack cabinet side, but the 55313 rack cube cannot be used.

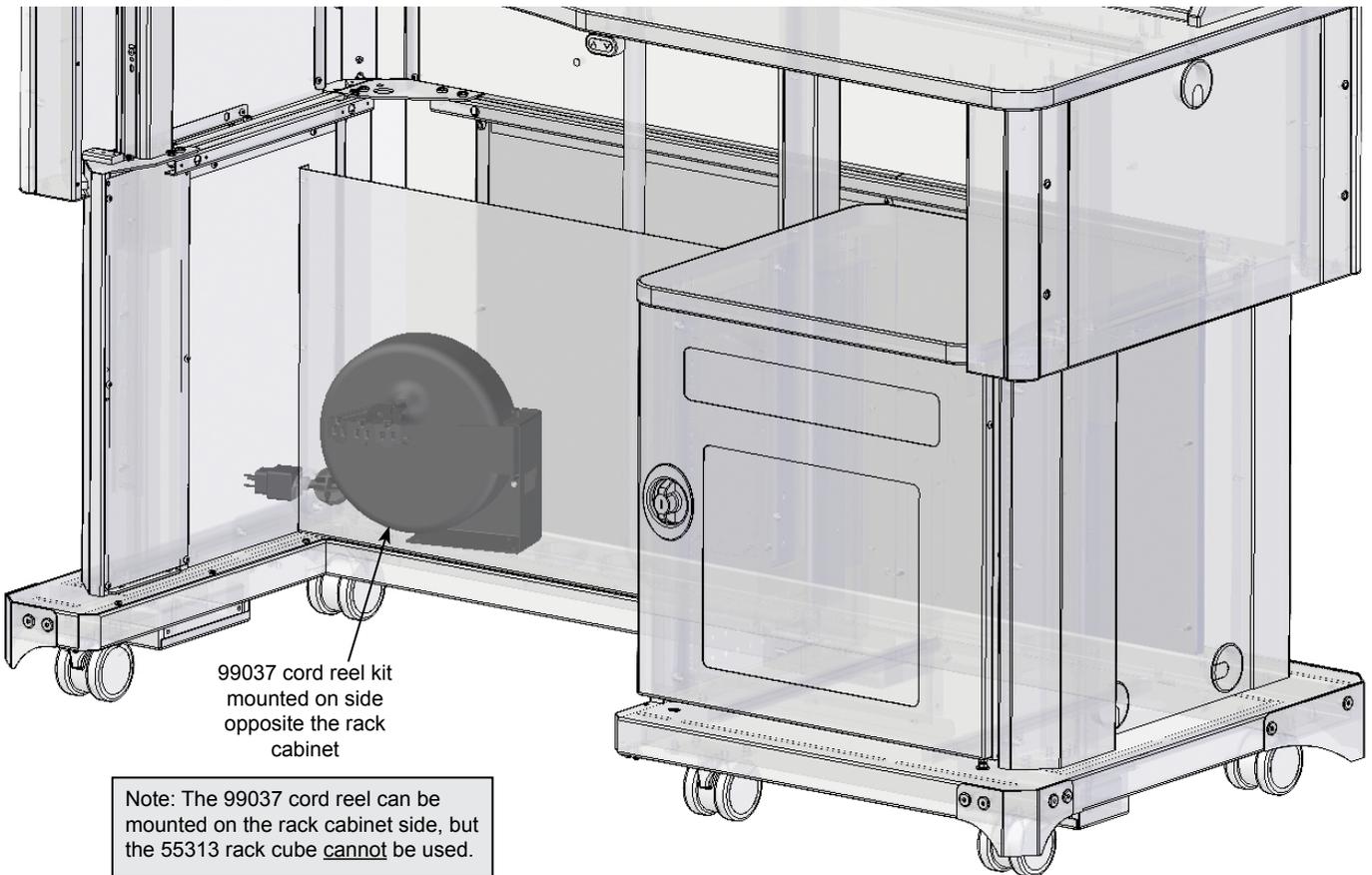


Universal Cord Reel Kit
15' [457.2 cm] retractable, 12 AWG, with breaker, includes universal mounting bracket (mounts vertically inside lectern to base panel)
10 lbs [.45 kg]
99037

Note: When installed, the cord reel takes up rack units from the bottom of the rack rail.

Horizontal installation: 3RU
Vertical installation: 6RU

⚠ The cord reel is intended to provide temporary access to electrical outlets for Spectrum mobile lecterns. Check local electrical codes prior to installation.



99037 cord reel kit mounted on side opposite the rack cabinet

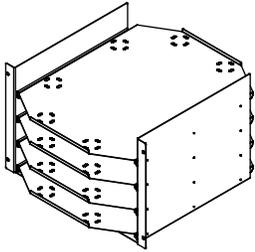
Note: The 99037 cord reel can be mounted on the rack cabinet side, but the 55313 rack cube cannot be used.

Rack-mount accessories

Note: Rack-mount accessories with a depth greater than 21.625"D will not fit inside the Freedom Lectern XRS.

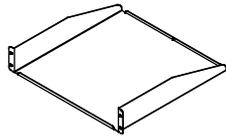
Rack-mount accessories with a depth greater than 19.5"D will not fit in the optional 55313 rack cube. Check the dimensions of all equipment before installation. The following Spectrum rack-mount accessories will not fit in the optional rack cube:

97517 - LT-4 Laptop Storage Unit
97503 - Pull-out Shelf (3RU)

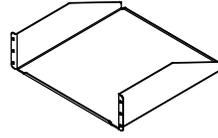


LT-4 Laptop Storage Unit (7RU)
(stores 4 laptops horizontally)
laptop tray dims:
16.25"W x 20.5"D x 2.1875"H
97517

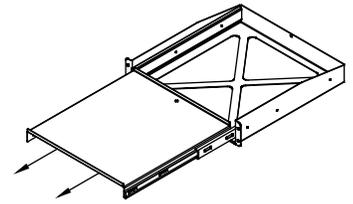
does not fit 55313 rack cube



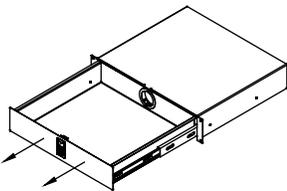
Cantilever Shelf (2RU)
17.5"W x 18"D x 3.5"H
(50 lbs max load)
97504



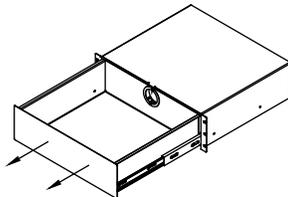
Cantilever Shelf (3RU)
17.5"W x 18"D x 5.25"H
(80 lbs max load)
97502



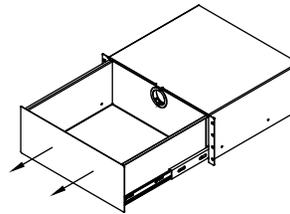
Pull-Out Shelf (2RU)
16.5"W x 17.75"D
(50 lbs max load)
97505



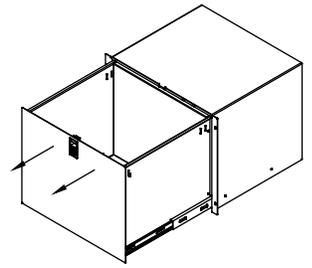
Locking Drawer (2RU)
interior dims:
15.75"W x 13.6875"D x 2.875"H
(25 lbs max load)
97514



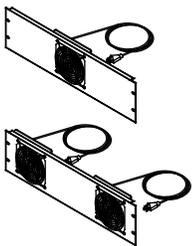
Drawer (3RU)
interior dims:
15.9375"W x 14.5"D x 5.25"H
(50 lbs max load)
97518



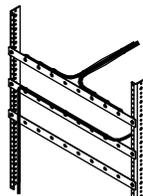
Drawer (4RU)
interior dims:
15.9375"W x 14.5"D x 7"H
(50 lbs max load)
97519



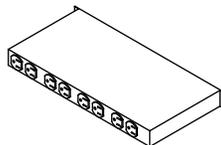
Locking File Drawer (8RU)
with file holder
interior dims:
15.75"W x 13.5625"D x 13.3125"H
(50 lbs max load)
97515



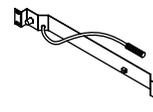
Cooling Fans (3RU)
19"W x 2"D x 5.25"H
Single Fan-97507
Double Fan-97506



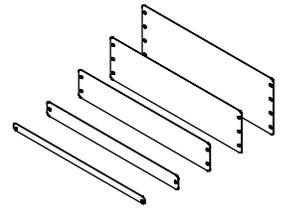
Wire Lace Kit
3 lace straps included
95517



9-Outlet Power Strip (1RU)
19"W x 9"D x 1.75"H
99021



Flexible Halogen Light (1RU)
19"W x 2"D x 1.75"H
99033



Rack-Mount Blanks
(fills rack spaces where components are not needed)

97516 - (½ RU)
97510 - (1RU)
97511 - (2RU)
97512 - (3RU)
97513 - (4RU)

Freedom XRS Troubleshooting Guide

Symptom	Problem	Solution
Worksurface will not operate	Loss of power	Be sure control box is plugged into a live circuit.
	Loose electrical connections	Make sure all electrical connections are securely plugged into the control box. See wiring diagram on p.9 for reference.
	Object encountered between worksurface and rack cabinet	<ol style="list-style-type: none"> 1. Raise the worksurface by pressing the “up” button. 2. Remove any items sitting on rack cabinet worksurface. 3. Reset the lift mechanism (see below for procedure.)
	Misaligned actuators due to unbalanced loads	<p style="text-align: center;"><u>Reset Procedure:</u></p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p>This lectern 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 lectern. The following reset procedure should be performed if the lift mechanism becomes locked out and the lectern does not extend or retract.</p> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px; text-align: center;"> <p>⚠ WARNING ⚠</p> <p><u>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 lectern movement does not interfere with objects or people. Do not place any items on top of the rack cabinet.</u></p> </div> <ol style="list-style-type: none"> 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. <u>Remove any worksurface or overbridge panel-installed electronics above the rack cabinet. Remove the rack cube (if equipped) and make sure the cabinet door is closed.</u> 4. Remove <u>anything</u> located on top of the rack cabinet worksurface. 5. Press and hold the “Down” button to lower the worksurface to the lowest “work” position until it stops moving. 6. Release the “Down” button. 7. Press and hold the “Down” button again and hold for 30 seconds. The worksurface will then lower slowly to the RESET MODE position, slightly rise, and stop moving. The worksurface must be completely lowered before resuming operation. <p>Note: If the worksurface does not lower when doing this step, release the “Down” button, and retry step 7.</p> <ol style="list-style-type: none"> 8. Release the “Down” button. The lift mechanism has now been reset and the worksurface can be adjusted normally.
Rack cabinet door does not line up with cabinet	Misaligned door	Adjust the lower hinge pin on the door. (see p.6 for procedure)

Electric leg information

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 the Owners 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:

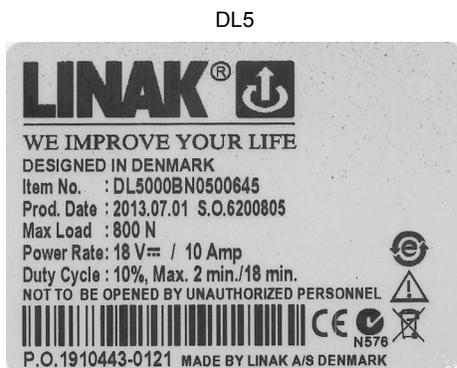
- Make sure that the system has been installed as instructed in this User Manual.
- Make sure that the voltage of the control box is correct before the system is connected to the mains.
- System connection. The individual parts must be connected before the control box is connected to the mains. See the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



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.
- It is the operator's responsibility to ensure that there is free space for the application to move without risk for the operator or bystanders before operating the application.

Misuse

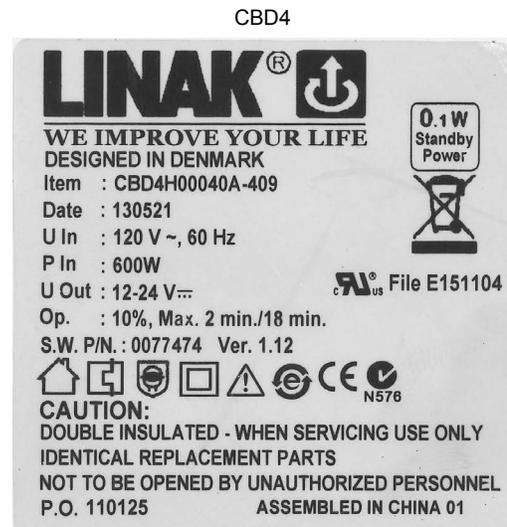
- Do not overload the actuators – this can cause danger of personal injury and damage to the system.
- Do not use the actuator system for lifting persons. Do not sit or stand on a table while operating – risk of personal injury.
- Do not use the system in environments other than the intended indoor use.

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.



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 environments 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

There is a 36 months' warranty on the DESKLINE products against manufacturing faults from the production date of the individual products (see label). LINAK A/S' warranty is only valid in so far as the equipment has been used and maintained correctly and has not been tampered with. Furthermore, the system must not be exposed to violent treatment. In the event of this, the warranty will be ineffective/invalid. For further details, please see LINAK A/S ordinary conditions of sale.

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 in 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 CBD4/CBD5/CBD6 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 CBD4/CBD5/CBD6
- 1 single DL5/DL6 or 2, 3, or 4 parallel
- 1 exchangeable mains cable
- 1, 2, 3, or 4 motor cables
- 1 DP1U/DPF1M (if memory function is required) DP1C/WDPL/DPT/DPF1C (if memory function and display is required) or 1 DPA/DPB/DP1K/DP1V/DPF1K (if only up/down is required.)

Electrical connection of the DL5/DL6 system

The DESKLINE® DL5/DL6 system is to be connected as shown on figure 4. Each DL5/DL6 is to be connected to the sockets on the control box by means of the motor cables, which have an 6-pin plug in each end. Finally, the mains 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.

CBD4/CBD5/CBD6 with earth

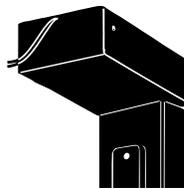
The CBD4/CBD5/CBD6 earth cable to be mounted on the desk construction (typically the top frame) in a way that ensures good electrical contact. The function of the earth cable is to earth the desk and ground static electricity. The earth connection does not protect other electrical products.



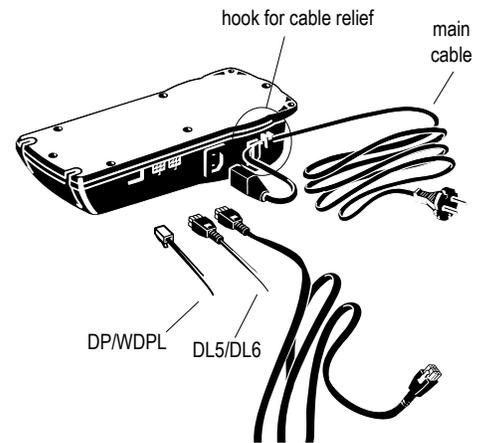
CBD4/CBD5 with mains cut-off (non ZERO models)

If the power cable is damaged it has to be replaced by an authorized LINAK service centre to avoid any danger.

DL5/DL6 cable



DL5/DL6



Anti-Collision™

The function (anti-collision) is an option for the standard CBD4/CBD5/CBD6 advanced/control box software 0077432 version 1.66 and later. A system with anti-collision can limit material damages on a desk if a collision with a solid object should occur.

Enabling the anti-collision

To enable the anti-collision function a little plug called a dongle must be mounted in one of the 2 control ports. The function is only active when the dongle is mounted. – If you remove the dongle again you disable the function.

Method of operation

When the DL/DB's are running the CBD4/CBD5/CBD6 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.

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
<ul style="list-style-type: none"> Adjustable Crank/Electric Desk Legs Flat Panel Desk Gas Cylinders 	<ul style="list-style-type: none"> 1 Year
<ul style="list-style-type: none"> Adjustable Height Chair Parts – including frames, gas cylinders, wood and plastic parts, and control handles Adjustable Height Chair Parts Casters Adjustable Height Chair Upholstery In-Stock Upholstery Graded-In Fabrics and Customer Owned Material 	<ul style="list-style-type: none"> 7 Years 2 Years 2 Years No Warranty
<ul style="list-style-type: none"> Height Adjustable Columns and Lifts General Use Casters Electrical Keyboard/Mouse Trays 	<ul style="list-style-type: none"> 1 Year
<ul style="list-style-type: none"> Flat Panel Monitor Arm – General Parts Flat Panel Monitor Arm – Gas Cylinders 	<ul style="list-style-type: none"> 5 Years 2 Years
<ul style="list-style-type: none"> Computer Desk Chassis Cart Chassis Lectern Chassis 	<ul style="list-style-type: none"> 10 Years

