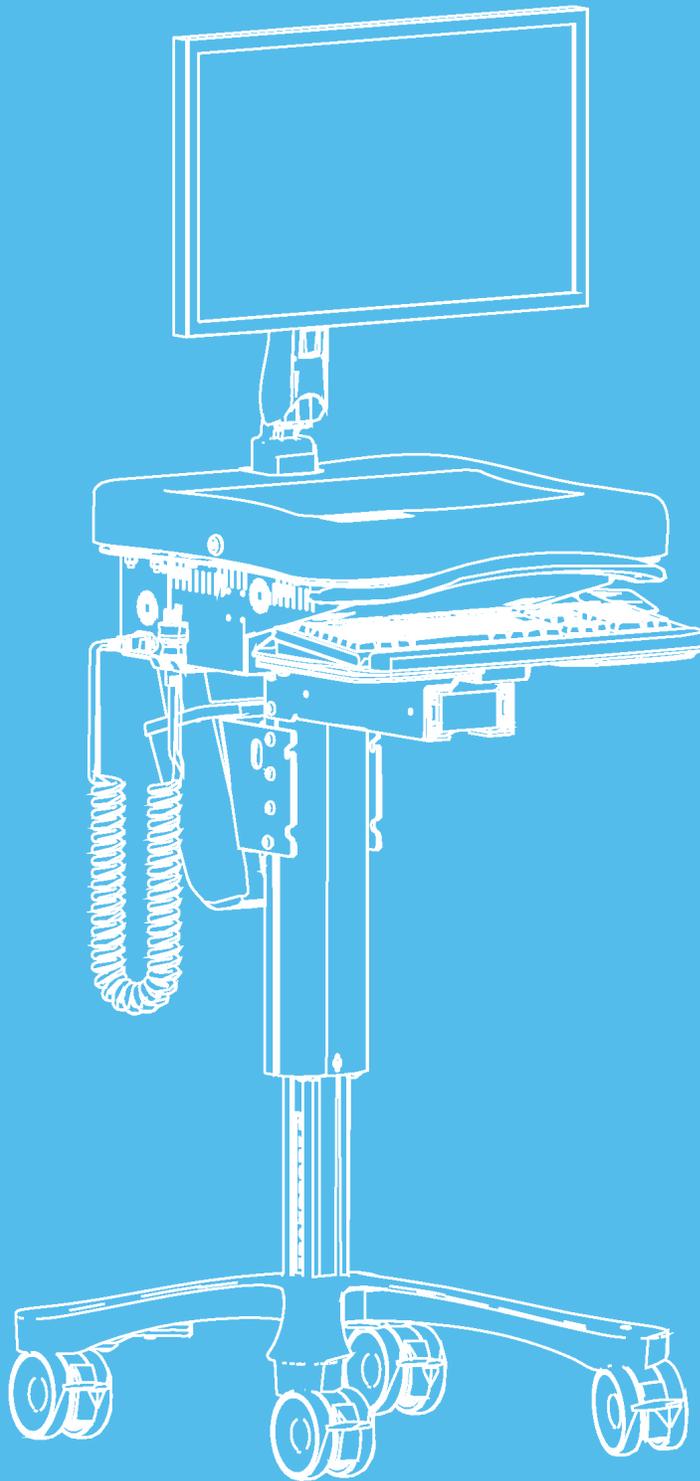


# Encore EcoFlex Manual



**enovate**  
MEDICAL

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# COMPANION GUIDES

Encore EcoFlex Specification Sheet  
<https://www.enovatemedical.com/download/6709/>

Encore EcoFlex Quick Start Guide  
<https://www.enovatemedical.com/download/6140/>

Workstation Cleaning Instructions  
<https://www.enovatemedical.com/download/4829/>

Software User Guide  
<https://www.myenovate.com/files/EcoflexUserGuide.pdf>

# WELCOME

Congratulations on your purchase of the Enovate Medical Encore EcoFlex Mobile EHR Workstation. Please do not use your workstation until you have read this manual in its entirety as it contains important safety and use information. The Enovate Medical workstation should only be used as outlined in this manual. Be sure to keep this manual in a safe place for future reference. If at any time you have questions or concerns about the contents of this manual or the use of your Enovate Medical workstation, please contact Enovate Medical Customer Service toll free at 888.909.8930

This manual, product informational and safety labels related to the Enovate Medical workstation frequently employ the use of symbols with or without accompanying text. Health products regulatory agencies require the use of symbols, often in place of textual statements, to enhance the legibility of labeling and thus improve the conspicuousness of required information such as important safety information. Your attention to the presence and content of symbols used in this manual will help to ensure the safe use of your Enovate Medical workstation. The Symbols and Warnings chart depicts the symbols used and provides a definition for each symbol found in this manual and in the labels and labeling materials of the Enovate Medical workstation

## **PRODUCT MODELS COVERED BY THIS DOCUMENT**

Model

Encore EcoFlex

Distributed by:  
Enovate Medical  
1152 Park Avenue  
Murfreesboro, TN 37129  
Support@enovatemedical.com  
Toll free 888.909.8906

# Encore EcoFlex



# WARNINGS

## SYMBOLS

The term “symbols” refers to the use of graphical symbols without equivalent accompanying text. Symbols are used by medical device manufacturers to create uniform labels and labeling for the United States, European Union, and any other countries that may permit their use in medical products.

The use of symbols on the product labels are intended to conform to international consensus standards. The following chart depicts the symbols used and provides a definition for each symbol found on the labels.

	Alternating Current
	Direct current
	Caution In case of application as a safety sign, the rules according to ISO 3864-1 are to be adhered to. See safety sign ISO 7010- W001
	Operating Instructions
	Dangerous Voltage
	Caution, risk of electric shock
	Date of Manufacture
	Manufacturer
	WEEE Symbol
	General Symbol for Recycle
	Arch Flash
	No Pushing, to Prohibit Against an Object

## WARNINGS



The above symbols represent safety warnings that require significant attention when seen on the Encore Workstation or in the user manual. Failure to do so could result in minor injury, major injury, or even death.

	NOT SUITABLE FOR USE IN AN OXYGEN RICH ENVIRONMENT! Do not use in the presence of an anesthetic mixture with air or with oxygen or nitrous oxide.
	USE A NONFLAMMABLE CLEANER WHEN CLEANING THE UNIT! Failure to do so can result in death, explosion, and/or fire.
	DO NOT LEAVE THE UNIT UNATTENDED AROUND CHILDREN! Failure to do so can result in injury, and/or death.
	CAUTION: MAIN BATTERY IS REMOVABLE BY HANDLE. You must use proper lifting techniques. Failure to do so can result in injury.
	AVOID USING AN EXTENSION CORD WITH THE UNIT! If an operational error occurs, the plug should be immediately removed from the socket.
	THIS CHARGER IS DESIGNED FOR USE WITH LITHIUM BATTERIES!
	For safety reasons, this charger must be used only for MobiusPower batteries
	DO NOT ATTEMPT TO SERVICE OR REPLACE ANY PART OF THE ENCORE WORKSTATION unless directed to do so through Enovate Medical approved documentation (i.e., this User Manual or other instructions). Only Enovate Medical or an Enovate-certified entity may service or replace the cart components. If any component on the cart is missing or damaged, the cart must not be used. Contact Enovate Medical immediately to request service.
	MAINTENANCE During preventive maintenance workstation should be turned off by removing main battery or disconnecting holster charger.
	DO NOT TRANSPORT THE WORKSTATION UP OR DOWN STAIRS! Workstation must be in lowered position and all drawers must be closed during transport.
	DO NOT OPEN THE POWER SYSTEM! Unauthorized personnel opening the power system may cause injury and/or death. If the unit is not working properly, please contact Enovate Medical at 888-909-8930

**WARNINGS**



DO NOT OPEN THE POWER SYSTEM! Unauthorized personnel opening the power system may cause injury and/or death. If the unit is not working properly, please contact Enovate Medical at 888-909-8930



DO NOT USE THE UNIT IN/NEAR WATER OR OTHER LIQUIDS! If the unit becomes wet, unplug it immediately, wipe away any excess liquid and allow it to dry before use. Failure to do so may cause electric shock, damage to the unit, voiding the warranty, injury or death.



ALWAYS KEEP THE UNIT WELL VENTILATED! Do not block ventilation airways or insert items into the ventilation slots. Failure to do so can cause the power system to overheat and possibly cause fire, explosion, and/or death.



THE CHARGER CONTAINS DANGEROUS VOLTAGES AND THE COVER SHOULD NOT BE REMOVED. All service or maintenance work should be carried out by qualified service personnel by contacting Enovate Medical at 888-909-8930



GROUNDING Connect the Enovate workstation or bay charger to an equivalent receptacle marked "Hospital Only" or "Hospital Grade" to ensure ground



WARNING: To avoid risk of electric shock, this equipment must only be connected to a supply mains with protective earth



WARNING: Do not push the workstation from the side. Always use the handle to move or adjust the workstation position.



Tipping Hazard: Transport cart in lowered position	
Safe Working Load: 3.2 kg (7 lbs.)	
Maximum total load: 22,2 kg (49 lbs.)	
CPU Compartment: 4.5 kg (10 lbs.)	Work Surface: 4.5 kg (10 lbs.)
Keyboard Tray: 1.4 kg (3 lbs.)	Monitor: 7.3 kg (16 lbs.)
Column Mounted Accessories (located below keyboard tray):	
4.5 kg (10 lbs.)	
Maximum Monitor Weight: 7.3 kg (16 lbs.)	
Transport position is any position below line	

## STATEMENT OF USE

The Encore EcoFlex Mobile EHR Workstation facilitates mobile computing in healthcare environments to aid in clinical documentation. Designed to set a new standard in quality, ease of use, and customer satisfaction, our goal is to provide a product that is built to exacting standards and is ready for years of durable service in a healthcare environment. This product is designed to be safely used within general patient areas and is meant to aid in the entering or retrieving of clinical data. It complies with IEC 60601-1 electromagnetic leakage and safety requirements if used in accordance with the boundaries and suggestions of this manual.

## SAFETY GUIDELINES

- EcoFlex Power Management system is designed to ensure both the highest level of product quality and safety for the user. To maintain both quality and safety, follow the guidelines and instructions in this manual.
- Use the EcoFlex Power Management system only as intended.
- Do not place the power system near a window. Exposing the power system to rain, water, moisture, or constant, direct sunlight can severely damage it.
- The EcoFlex Power Management system has no user-serviceable, internal parts. To maintain your warranty, refer all servicing to Enovate Medical qualified personnel.
- Do not cover or obstruct any venting holes on the EcoFlex Power Management Controller or the MOBIUSPOWER Charging Stations.
- Store the EcoFlex Power Management system within 10 to 30 degrees Celsius (50 to 86 degrees Fahrenheit) for optimum backup battery life. Storing the system outside the temperature range could result in premature backup battery failure.
- Use and maintain the cord set provided with the MOBIUSPOWER Charging Stations.
- Position workstation in a manner that does not obstruct or make it difficult to disconnect from external power source.
- If any cord or cable is frayed or damaged, replace it immediately with another of the same type and rating as supplied by Enovate Medical.
- To clean the exterior of the power system/components, follow the IEC 60601-1 standard for use in a hospital environment. See "Maintenance" for more information.
- Before cleaning a MOBIUSPOWER Charging Station, disconnect the enclosure from its power source.
- CAUTION! DO NOT ship individual MOBIUSPOWER Battery Packs by air. Certain restrictions apply. Contact Enovate Medical for shipping instruction.

**CLASSIFICATIONS**

- Charger: Class 1
- Main Controller: Class 1, Internally Powered
- Degree of Protection against Harmful Ingress of Water, IPX0
- EQUIPMENT not suitable for use in the presence of a FLAMMABLE ANAESTHETIC MIXTURE WITH AIR or WITH OXYGEN OR NITROUS OXIDE

**TRANSPORT / STORAGE ENVIRONMENT**

Care should be taken to transport and store this system within the following:

- Ambient Temperature Range: -20 °C to +50 °C (-4 °F to 122 °F)
- Atmospheric Pressure: 50 kPa to 106 kPa
- Relative Humidity: 5% to 85% non-condensing

**STORAGE REQUIREMENTS**

The lithium ion Battery Pack must not be fully charged prior to storing. 50% state of charge recommended.

**OPERATING ENVIRONMENT**

- Ambient Temperature Range: 0 °C to +40 °C (32 °F to 104 °F)
- Atmospheric Pressure: 50 kPa to 106 kPa
- Relative Humidity: 20% – 85% non- condensing

**WARRANTY**

Product Warranty:

2 and 4 year limited warranty on Battery Packs

6 years on Workstation and electronic components

Contact Enovate Medical directly for full warranty details

**COMPLIANCE**

## Workstation

- IEC 60601-1 3rd Edition

## Holster Charger

- IEC 60601-1, EN 60601-1, UL ES 60601-1, CSA C22.2 No. 60601-1
- IEC 60950-1, EN 60950-1, UL 60950-1, CSA C22.2 No. 60950-1
- CE, RoHS

## Bay Chargers

- UL 1012
- CAN/CSA-E60335
- IEC 60335

## Mobius Battery

- IEC 62133 2nd Edition
- UL 62133
- Only part numbers: 3117615, 3117715, 3117815, 3117915, 3118015, 3118115, 3118215, 3118315, 3118415
- UN 38.3

**EMI (ELECTROMAGNETIC INTERFERENCE)**

Portable and mobile RF communications equipment can affect Medical Electrical Equipment. The use of accessories, transducers, and cables other than those specified by the manufacturer, may result in increased Emissions or decreased Immunity of the System. The System should not be used adjacent to or stacked with other equipment and that if adjacent or stacked use is necessary, the System should be observed to verify normal operation in the configuration in which it will be used.

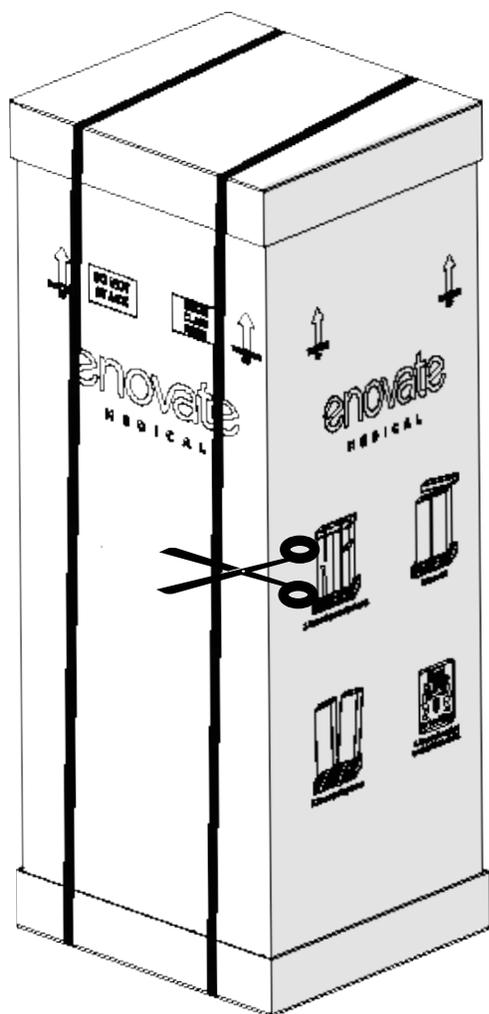
These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual, may cause interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio, television or Medical Electrical Equipment reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference using one or more of the following measures: reorient or relocate the receiving antenna; increase the separation between the equipment and the receiver; connect the equipment into an outlet on a circuit different from that which the receiver is connected; consult the dealer or an experienced radio/television technician for help. The user must use shielded cables and connectors with this product.

Any changes or modifications to this product not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation. MOBIUS POWER meets or exceeds FCC Class A limits for EMI

## UNPACKING

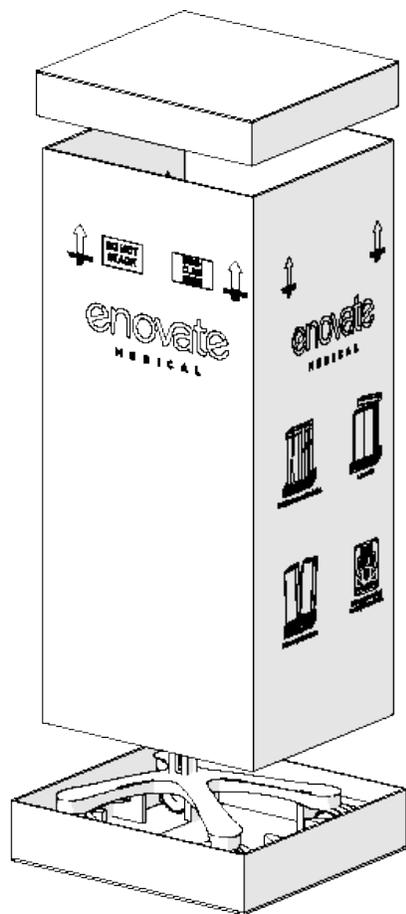
Promptly unpack your products to check for completeness and damage caused by shipping. Immediately after receiving you products, ALL batteries must be fully charged to ensure the duration of their warranty.

NOTE: All Pictures shown are for illustration purpose only. Actual product may vary due to product enhancement.



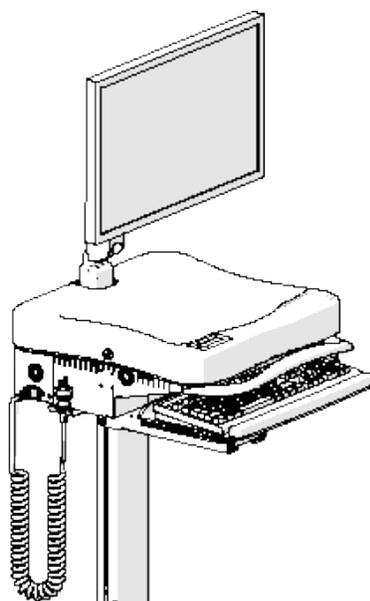
### STEP 1

Use scissors or a utility knife to cut and remove the two outer straps.



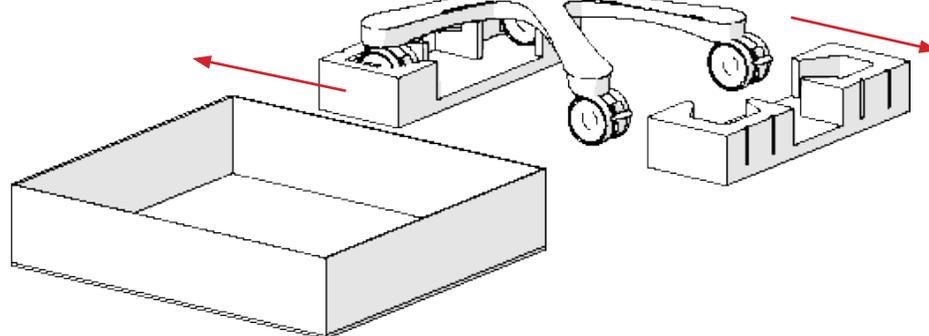
**STEP 2**  
Remove cardboard lid, cardboard wall and any packing spacers.

**NOTE:** STEP 3 requires two people.

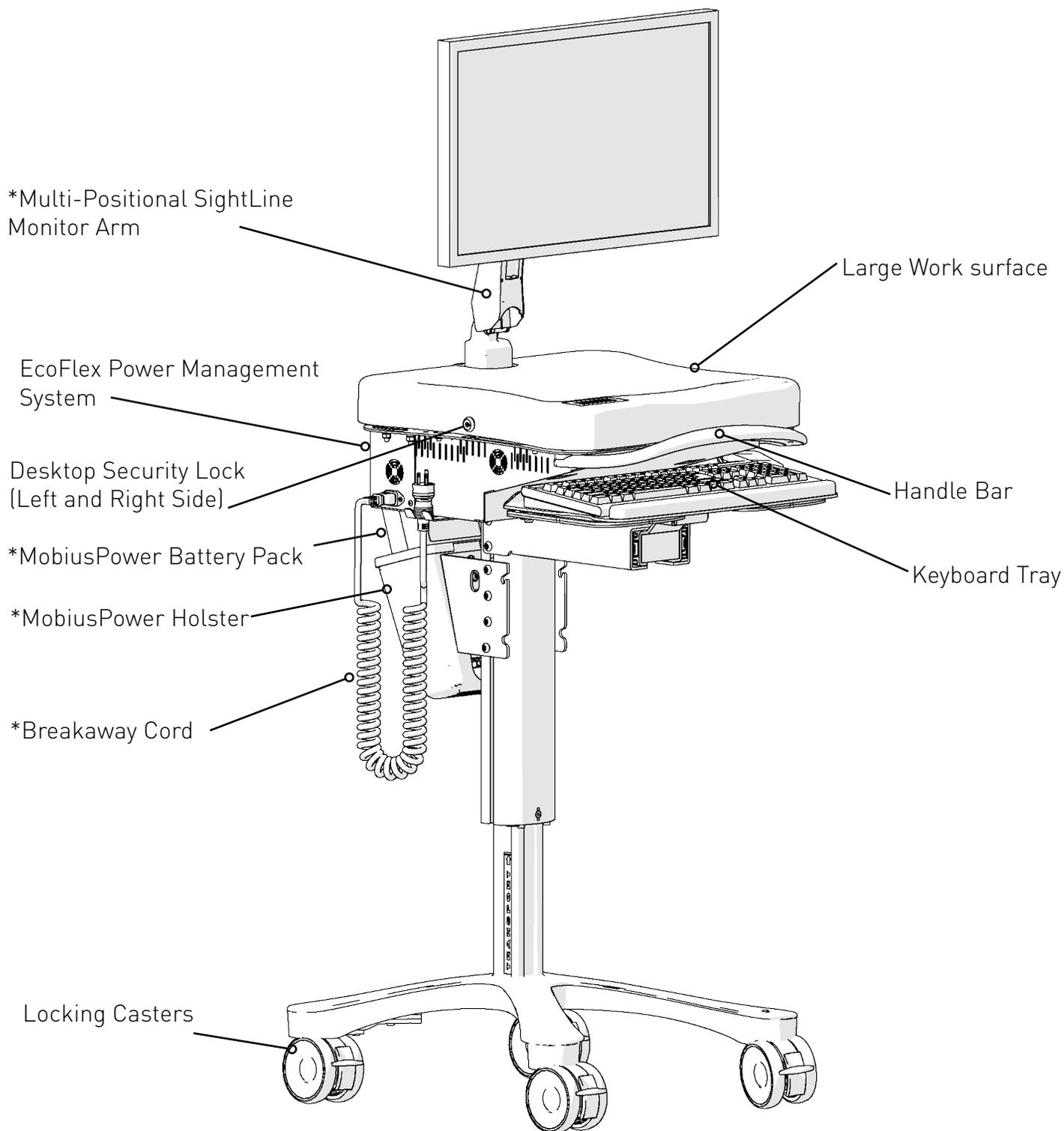


**STEP 3**  
Lift cart (with foam castor braces still attached) out of the cardboard base and remove foam caster braces.

**STEP 4**  
Open tray and check for integration kit and locate all optional accessories



## OVERVIEW



\*OPTIONAL FEATURE BASED ON MODEL

LCD Message Center

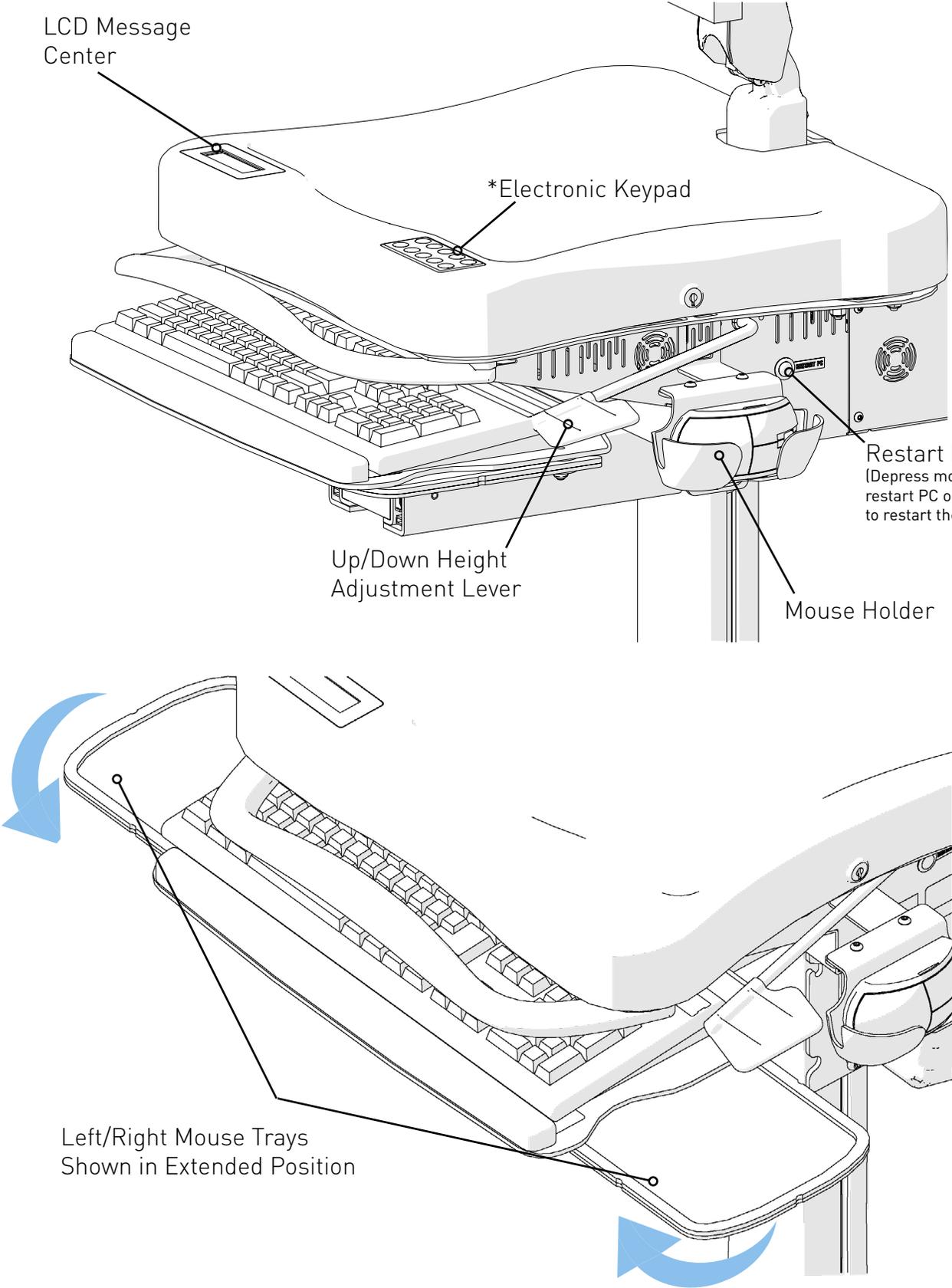
\*Electronic Keypad

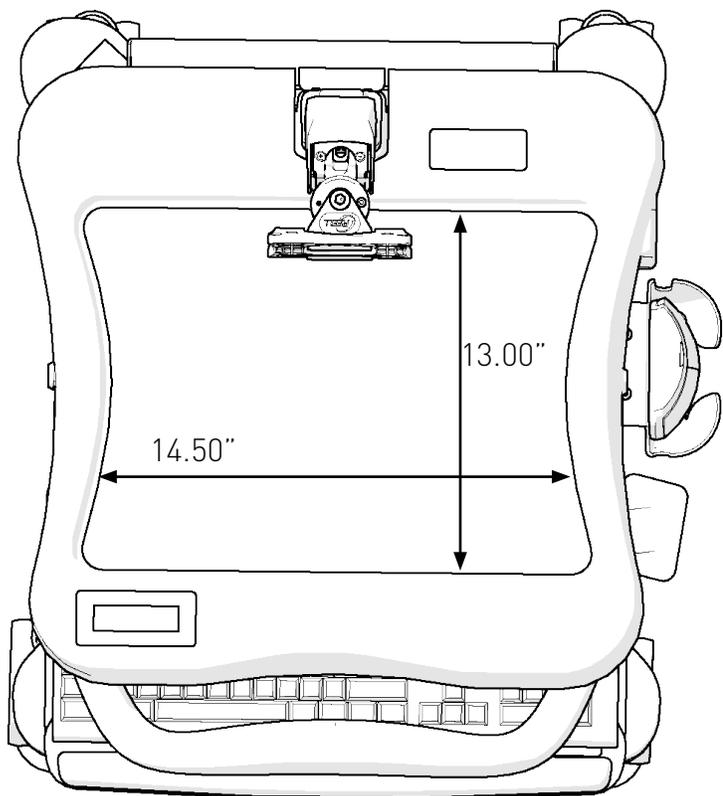
Restart PC Button  
(Depress momentarily to restart PC or >10 seconds to restart the workstation)

Up/Down Height Adjustment Lever

Mouse Holder

Left/Right Mouse Trays  
Shown in Extended Position



**WEIGHTS**

Total Mass = 70.3 kg (155 lbs.)

\*Includes battery, power and maximum accessory limits.

Monitor Pole = 7.3 kg (16 lbs.)

Monitor Arm = 4.1 kg (9 lbs.)

CPU Compartment = 4.5 kg (10 lbs.)

Work Surface = 4.5 kg (10 lbs.)

Keyboard Tray = (3 lbs.)

Column Accessories = 4.5 kg (10 lbs.)

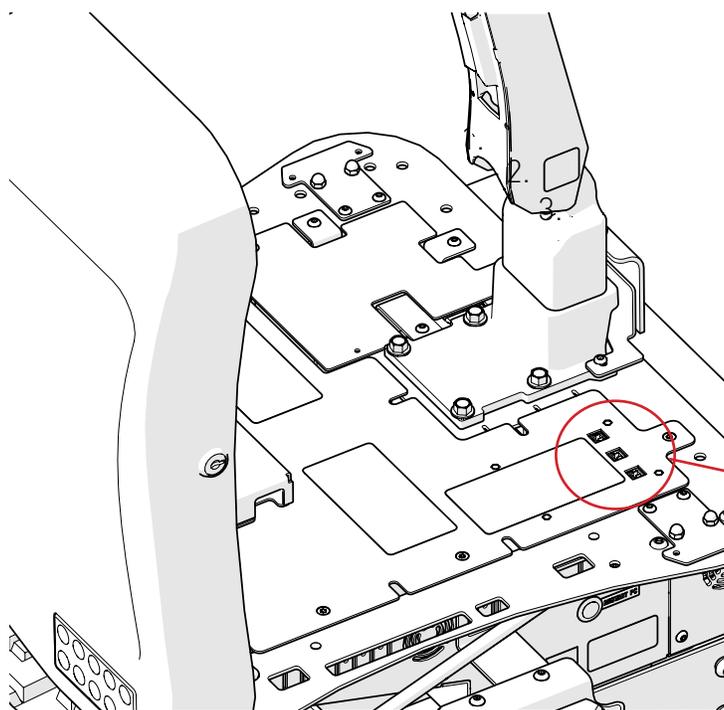
Column Drawer = 9.1 kg (20 lbs.)

**CPU COMPARTMENT SIZE**

Width: 406.4mm (16")

Depth: 330.2mm (13")

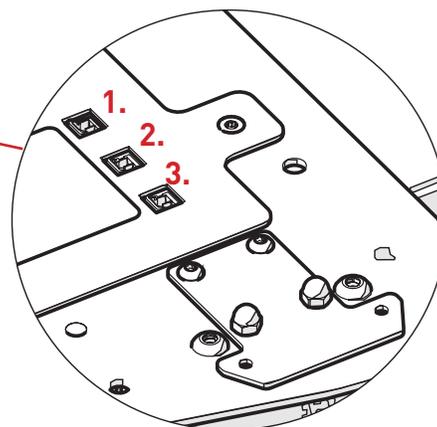
Height: 57.2mm (2.25")

**I/O PORTS:**

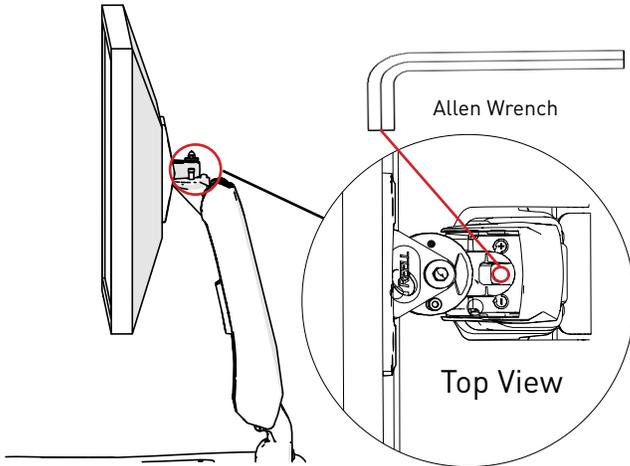
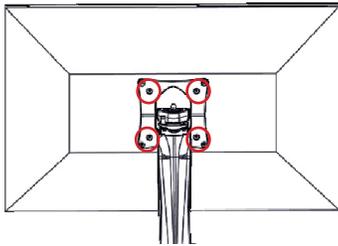
Channel 1 - PC

Channel 2 - Monitor

Channel 3 - Peripheral



# SETUP



## SIGHTLINE MONITOR ARM INSTALLATION

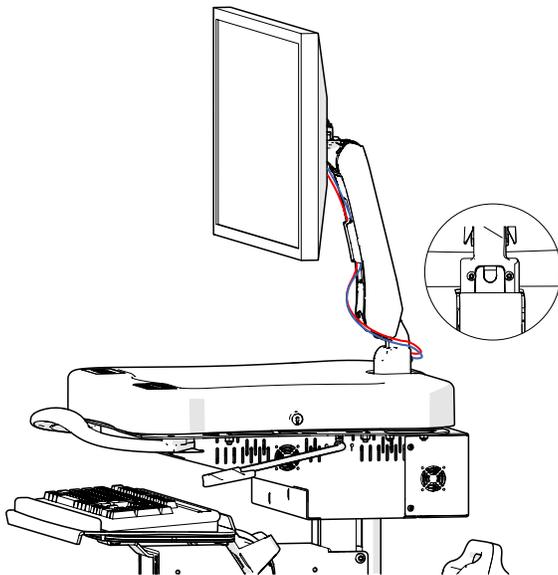
### STEP 1

Align screws with the four holes in the monitor pole VESA plate. Hold the monitor in place and tighten the screws.

## SIGHTLINE MONITOR ARM TENSION ADJUSTMENT

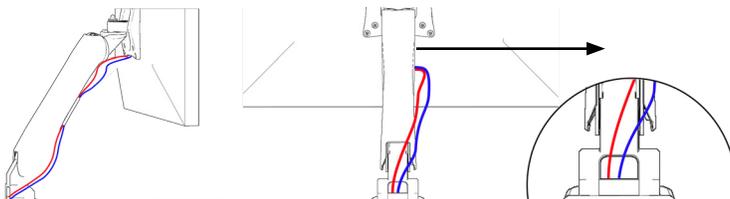
### STEP 2

Use an Allen Wrench to adjust the SightLine Monitor Arm tension, turn clockwise to loosen, turn counter clockwise to tighten.



### STEP 3

Connect the monitor's power cable (pictured in red for demonstration purposes only) and the video cable (pictured in blue for demonstration purposes only). Route each cable from the monitor through the cable management cover located on the front of the monitor arm. Leave enough slack above the cable management cover to allow the monitor to extend fully upward.



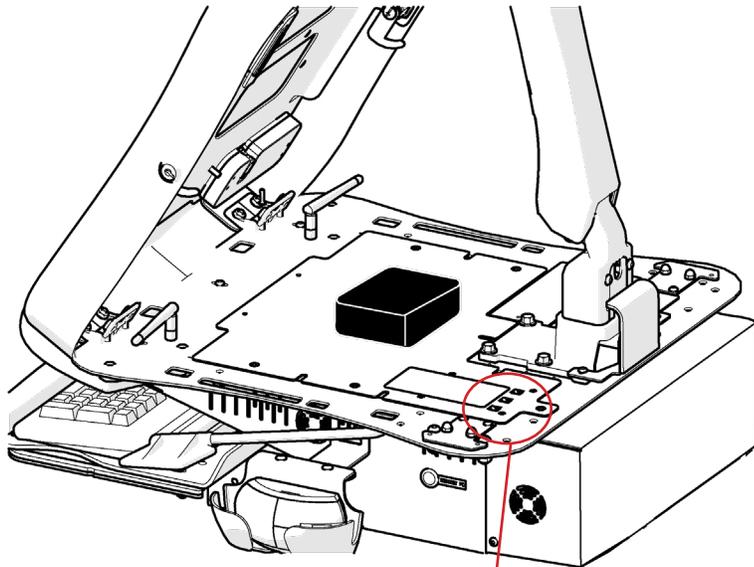
### STEP 4

Continue routing each cable behind the arm and through the rear cable port at the base of the monitor arm and plug into computer port.

## CPU INSTALLATION

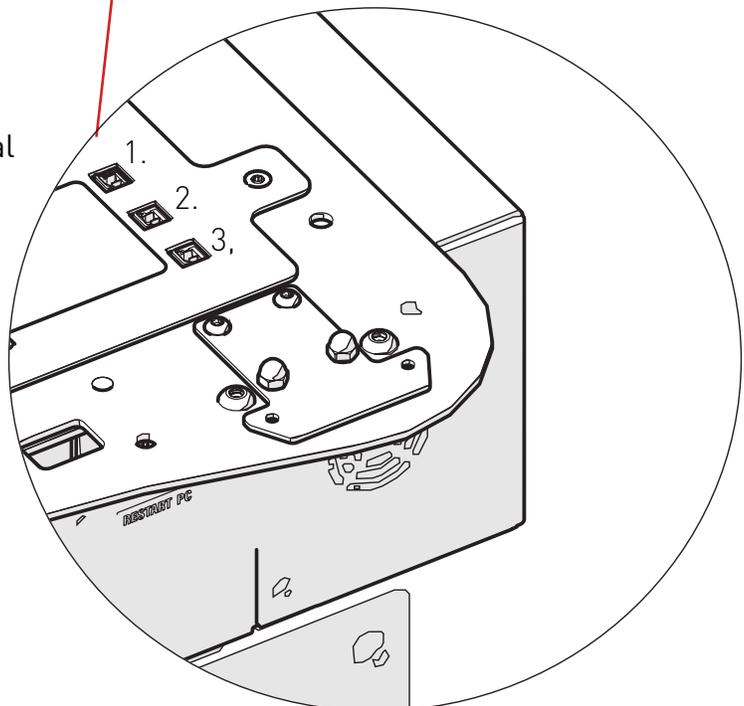
Set the CPU onto the platform beneath the work surface. NOTE: Take care in CPU placement; consider orientation based on direction of cable inputs and sizes INCLUDING monitor input, power input, mouse, keyboard and any peripherals. Make cable connections within the tray.

**VOLTAGE SETTINGS** can be changed using EM Control or the Rhythm Unplugged app. For additional information please visit: <http://software.myenovate.com>



## I/O PORTS

- Channel 1 - PC
- Channel 2 - Monitor
- Channel 3 - Peripheral



**KEYBOARD INSTALLATION****STEP 1**

Set the keyboard on the keyboard tray

**STEP 2**

Pull the keyboard tray forward to full extension. This will simulate the full length requirement of the keyboard cable length. Unlock both sides of the work surface and lift up.

**STEP 3**

Route the cable (pictured in red) under and through the tray routing ports, plug into appropriate location on CPU/laptop and zip tie into place.

**STEP 4**

Replace the work surface and cable cover at the base of the monitor arm, close and lock, or, continue to next step and install mouse.

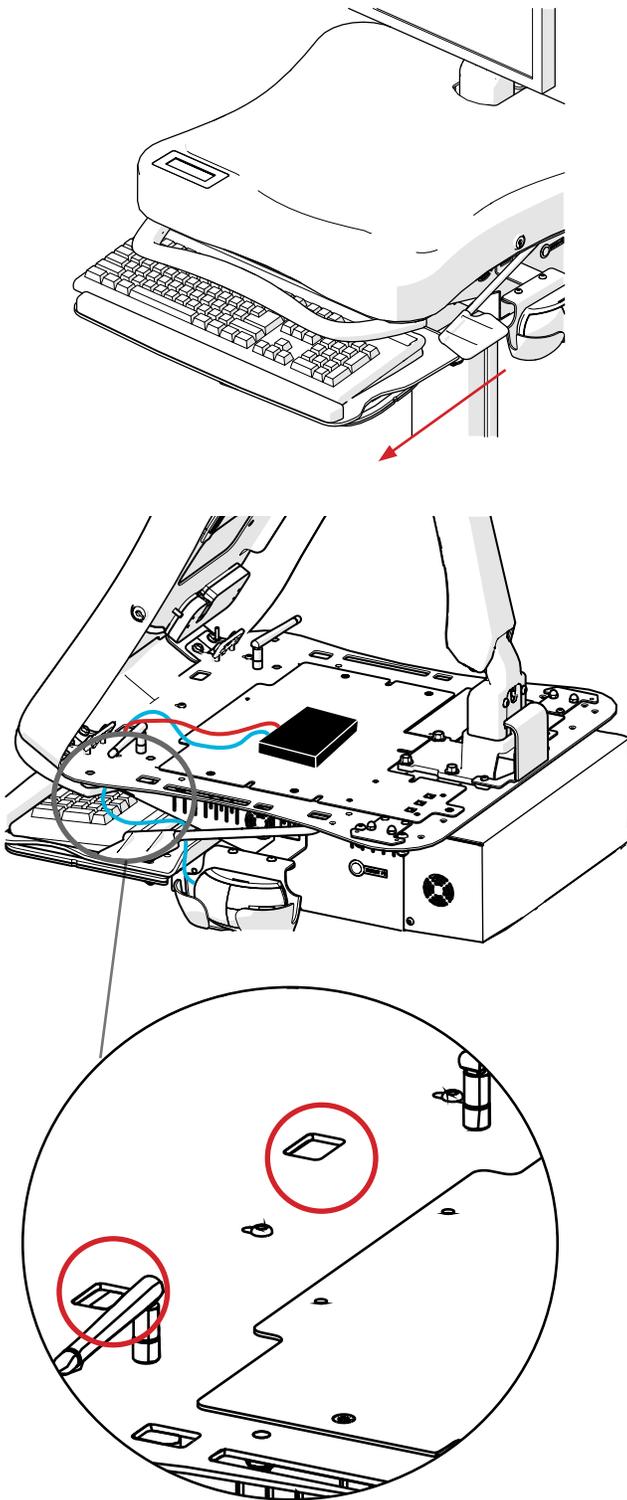


FIG. 1 Top view of desk keyboard and mouse cable routing ports

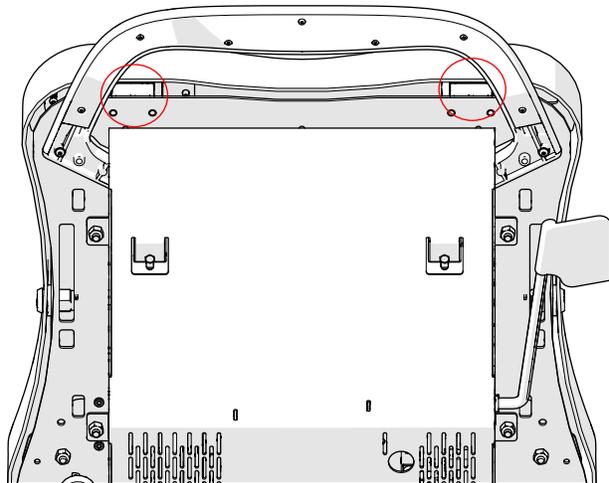
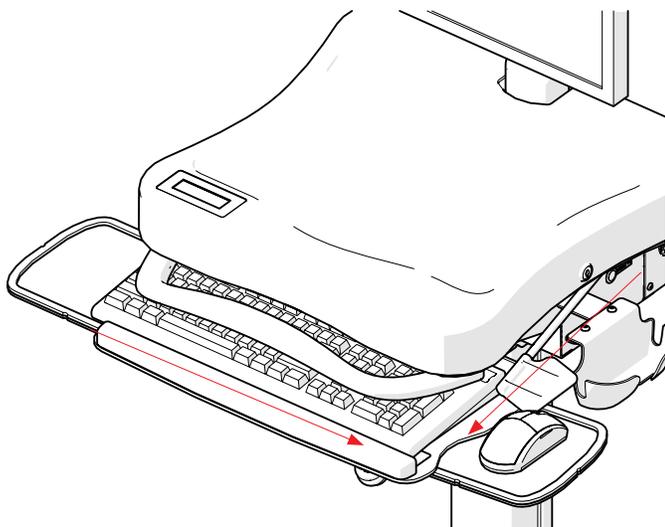


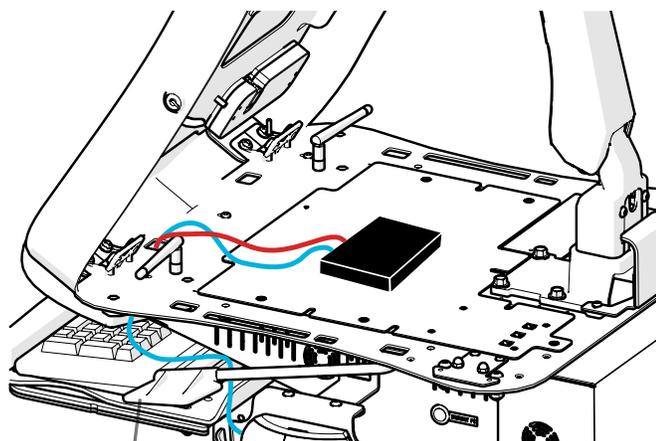
FIG. 2 Underneath view of desk keyboard and Mouse Cable Routing Ports

**MOUSE INSTALLATION****STEP 1**

Pull the keyboard and mouse tray to full extension. This will simulate the full length requirement of the mouse cable length.

**STEP 2**

Route the cable under and through the tray routing ports, plug into appropriate location on CPU/laptop and zip tie into place.

**STEP 3**

Stow mouse in mouse holder

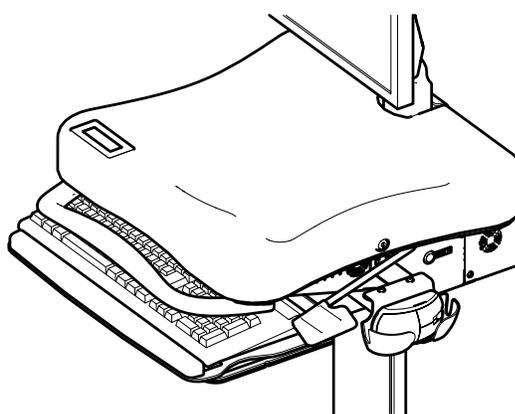
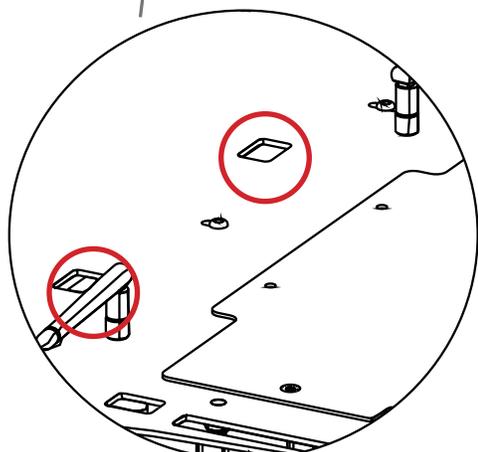


FIG. 1 Top view of desk keyboard and mouse cable routing ports

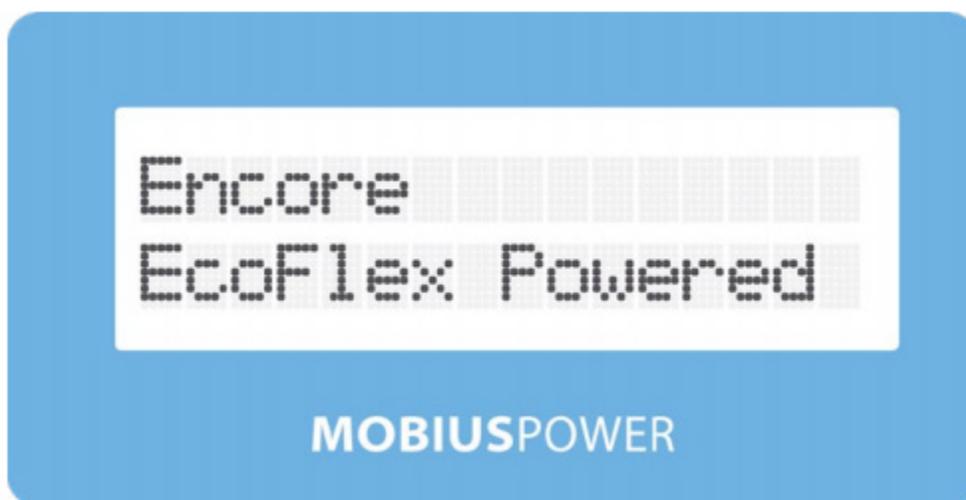
# OPERATIONS

## POWERING ON

To power on the Encore EcoFlex, insert a fully charged MobiusPower Battery Pack or plug into an outlet.

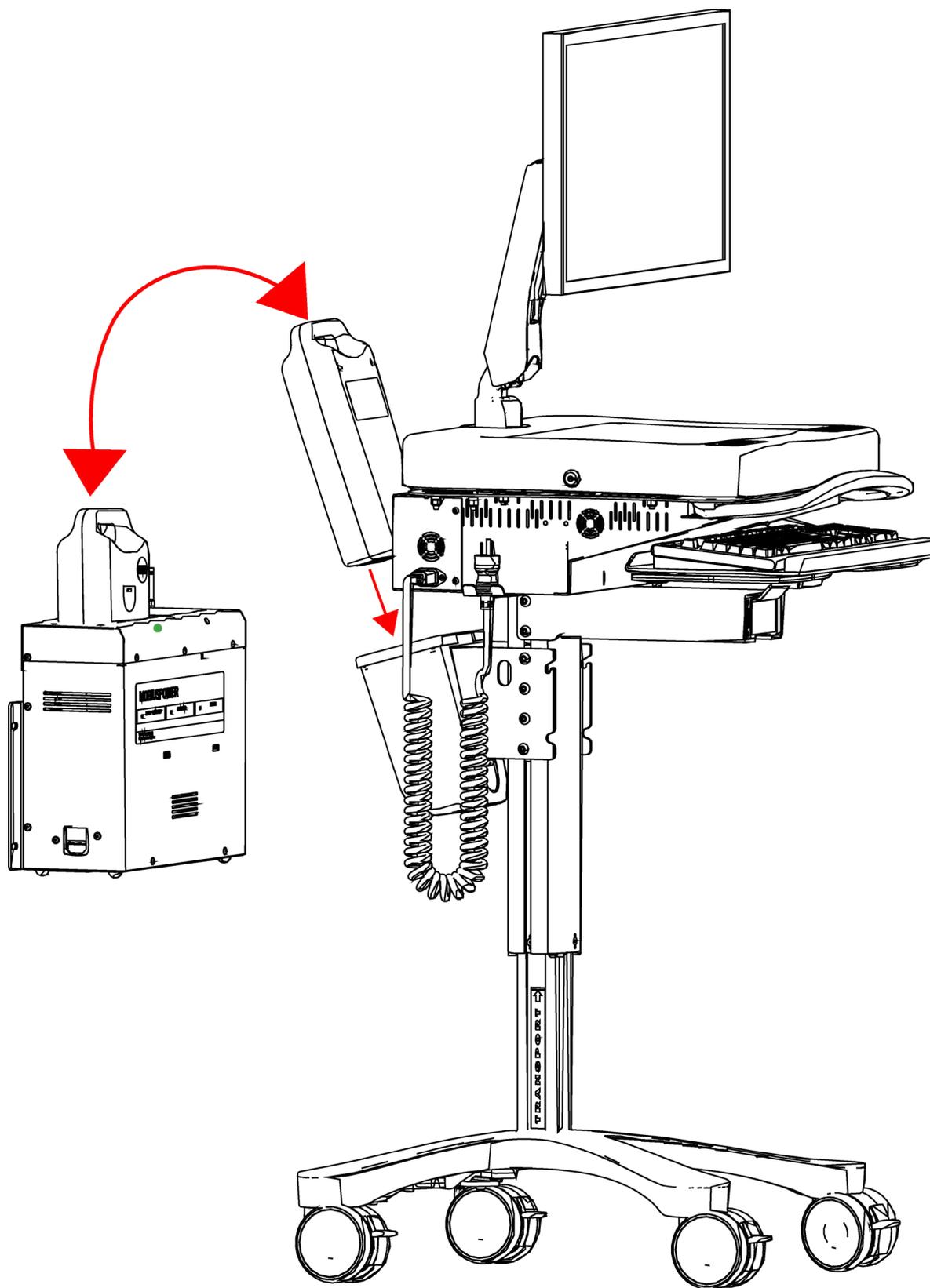
As the Encore EcoFlex is powering on, you will see a series of screen displays. For full details please visit: <http://software.myenovate.com/files/EcoflexEncoreUserGuide.pdf>

*Powering on*



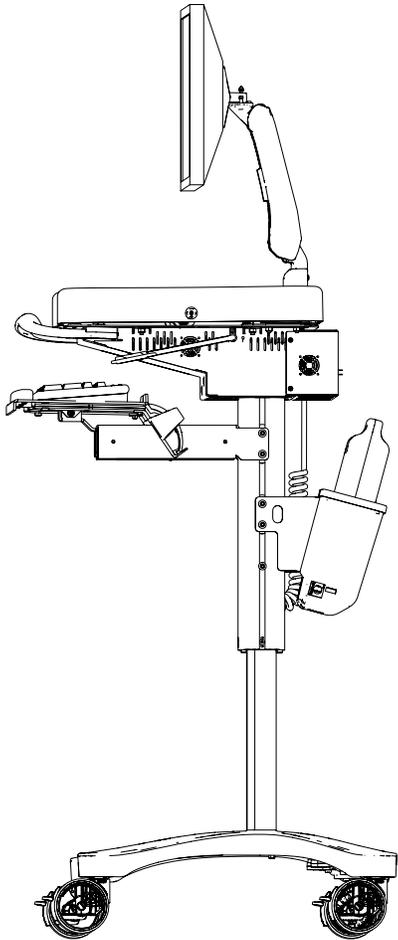
**SWAPPING THE MOBIUSPOWER BATTERY**

Remove MobiusPower battery pack from holster, swap with a fully charged battery from the charging station.

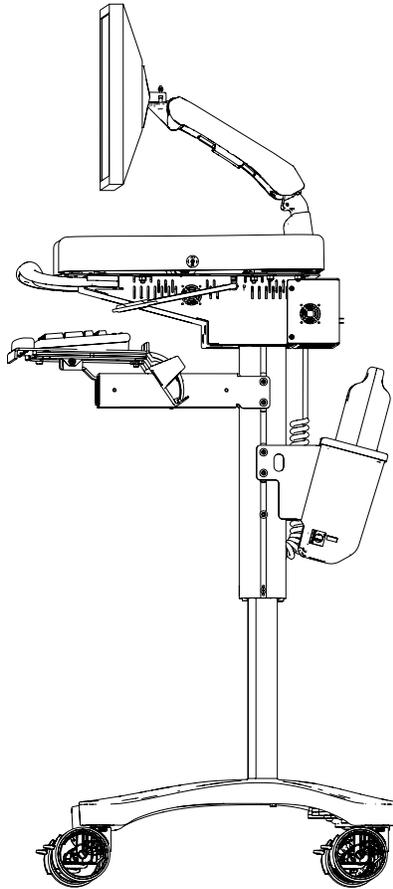


**SIGHTLINE MONITOR ARM MOVEMENT**

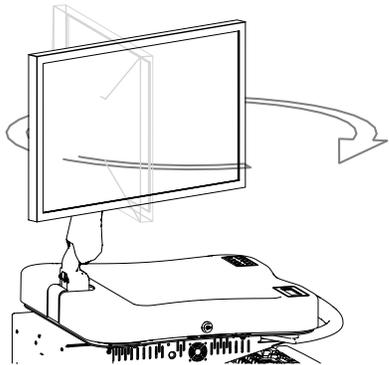
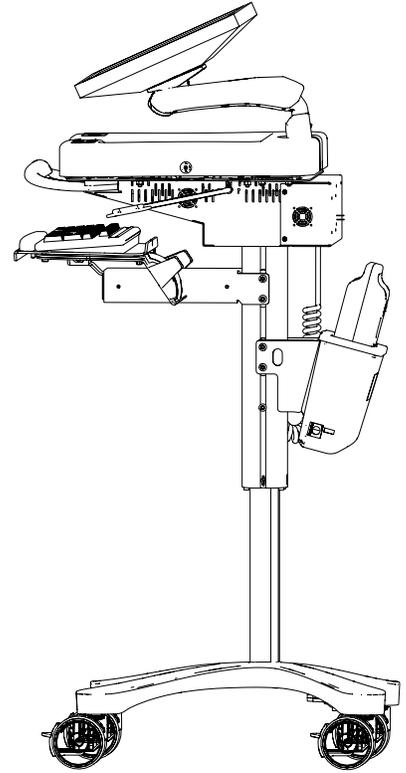
Upright Position



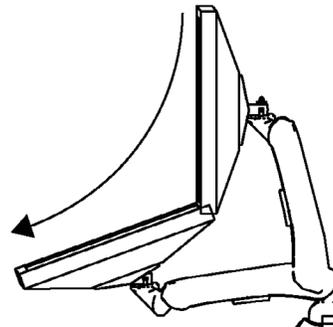
Extended Position



Reclined Position

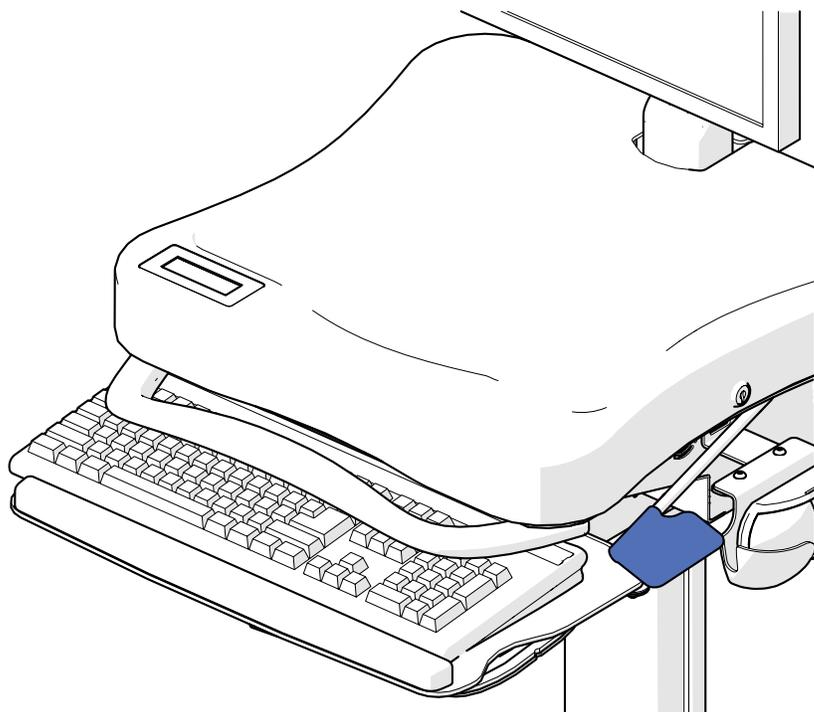


Monitor rotates 80 degrees.



For safe travel, lower the Sightline Monitor Arm to the reclined position.

## HEIGHT ADJUSTMENT LEVER



To raise or lower the work surface:

### STEP 1

Position your hands to hold the work surface steady and grip the height adjustment lever located on the left side of the Encore,

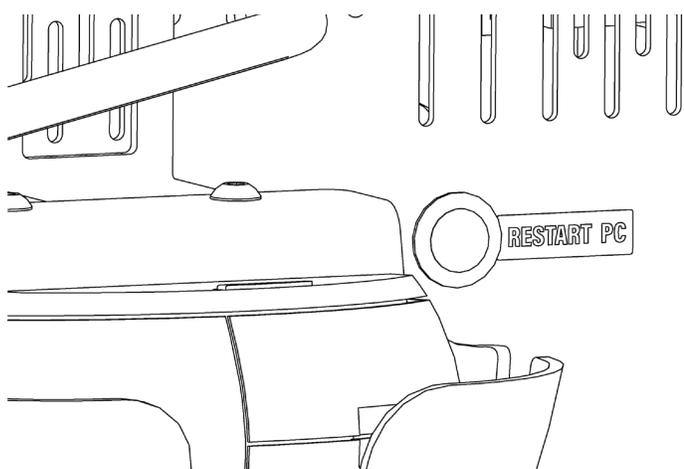
### STEP 2

Pull the height adjustment lever upward to raise or lower to desired position.

### STEP 3

Release the height adjustment lever once the desired position is reached.

## RESTART PC

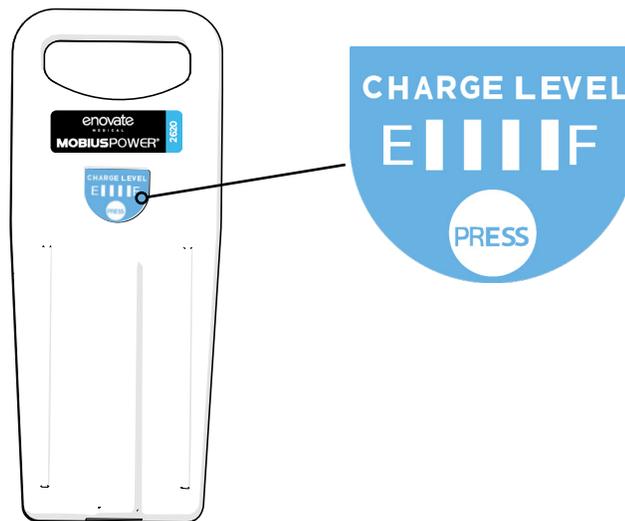


Depress Momentarily to restart PC.  
Press and hold for >than 10 seconds  
to restart the workstation.

# MOBIUSPOWER

## BATTERY PACK FUEL GAUGE

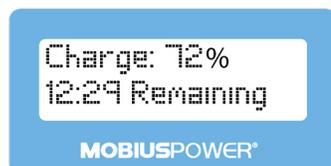
- Each Battery Pack has a “fuel gauge” to indicate charge level/capacity.
- You may check a Battery Pack’s charge capacity at any time.
- To check the remaining charge on a Battery Pack, press and release the white circle on the Battery Pack’s fuel gauge display.
- The charge level is indicated in 25% increments by the number of status lights appearing between the E-Empty and F-Full.
- After 3 seconds, the status lights will turn OFF.



Charge Capacity		LED 1	LED 2	LED 3	LED 4
	0% - 10%	FLASH	OFF	OFF	OFF
	11% - 25%	ON	OFF	OFF	OFF
	26% - 50%	ON	ON	OFF	OFF
	51% - 75%	ON	ON	ON	OFF
	76% - 100%	ON	ON	ON	ON

**TIME REMAINING ON BATTERY PACK - LCD SCREEN SEQUENCE**

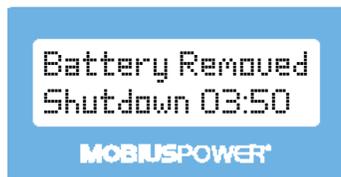
The workstation is calculating the run time based on the current being drawn by the system



Once the time is calculated, the Battery Pack will show a continuous display of 'Time Remaining' in hours and minutes. The time will vary depending on usage amount.

**MOBIUSPOWER BATTERY PACK REMOVAL - LCD SCREEN SEQUENCE**

LCD displays "Battery Removed" when the MobiusPower battery pack is removed from the workstation holster



The workstation will begin a countdown timer



The workstation will temporarily draw power from the DC outputs and internal backup battery, the screen will display "Standby"



Once in low power mode the LCD screen will dim

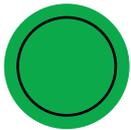
Once the Battery Pack charge capacity is depleted, the LCD Message Center will turn off. At this point, MobiusPower, your computer and any other devices requiring power will shut down until the Battery Pack is replaced with a Fully Charged Battery Pack OR the Battery Holster is plugged into an AC outlet using the optional Holster Charger. You may then turn on your computer and other electronic devices.

**MOBIUSPOWER CHARGING STATION**

Includes 2-Battery or 4-Battery Pack Charging Station. Once the Charging Station is placed and plugged into an outlet, slide a Battery Pack into any open slot making sure the FLASHING GREEN indicator light turns on. The charge cycle is complete when the indicator light is illuminated SOLID GREEN.

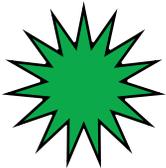
MobiusPower Dual Pack Charging Station

Charge Indicator Lights



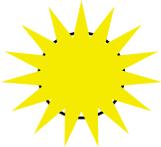
**FULLY CHARGED**

Solid green light



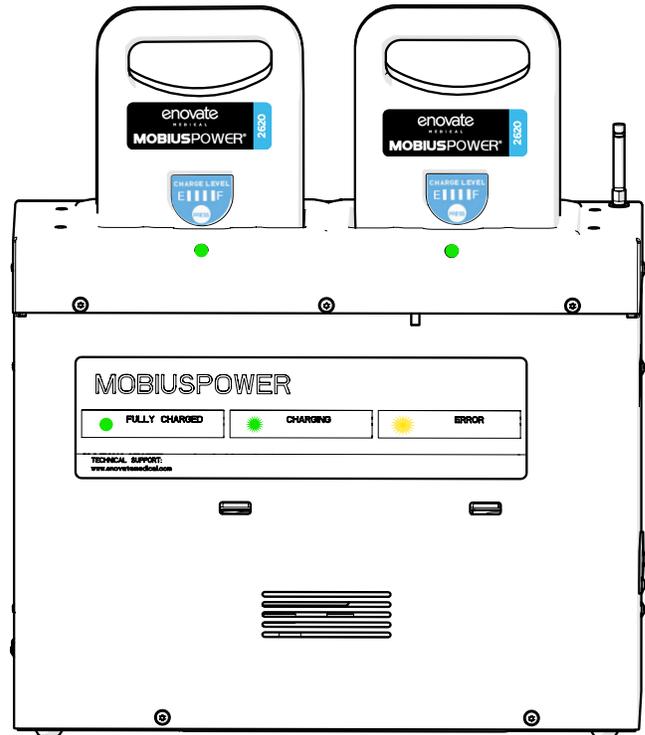
**CHARGING**

Blinking green light



**ERROR**

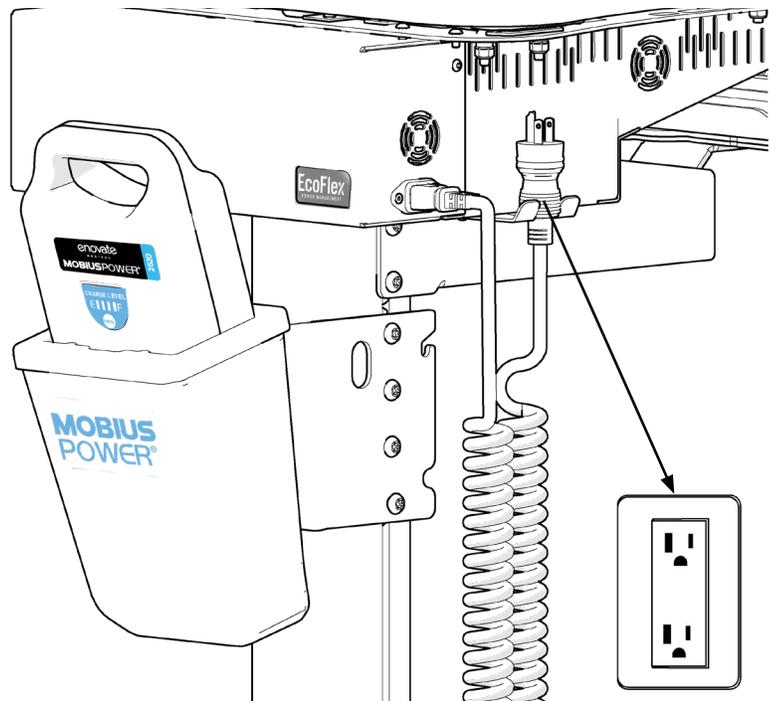
Solid or blinking yellow light



**MOBIUSPOWER HOLSTER CHARGER**

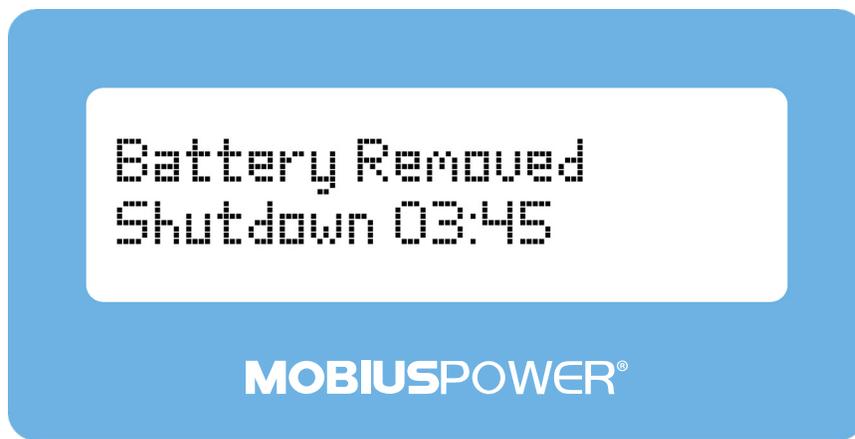
To charge the MobiusPower battery pack in the holster, plug the power cord into an AC electrical outlet. The LCD message center will read "AC Plugged In Charging".

The charge status can be checked by unplugging the AC power cord from the wall outlet and reading the time remaining in hours and minutes on the LCD message center or depress the charge level indicator on the MobiusPower battery pack.



## SWAPPING THE MOBIUSPOWER BATTERY

When swapping the MobiusPower battery pack, the LCD will read “Battery Removed” along with a 4-minute Shutdown timer.

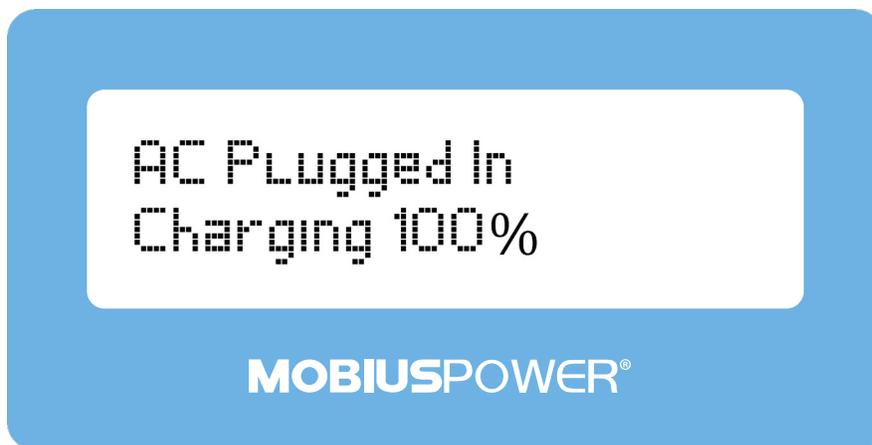


The workstation will emit an audible alert every 5 seconds during the 4 minutes prior to entering standby. During the 4-minute countdown the EcoFlex is being powered by the backup battery.

## ON-BOARD CHARGING: (Encore EcoFlex MobiusPower Plus Model only)

The Encore EcoFlex MobiusPower Plus can charge the MobiusPower battery pack while the battery pack is in the holster. To begin charging your Encore Ecoflex MobiusPower Plus, plug the 3-prong power cable into a standard 110-120VAC grounded AC power outlet.

You will observe the following message on the LCD when the AC cord is connected. Please unplug the workstation from the AC Power outlet prior to moving it.



## BATTERY DISPOSAL

Industrial batteries contain materials which are considered 'hazardous substances'. If batteries are improperly disposed of, for example, thrown in the trash or illegally dumped, these substances can eventually leak out and contaminate the surrounding soil and groundwater supply.

It is a violation of federal law to improperly dispose of batteries once they can no longer be used. Once a battery is purchased, full liability and responsibility lies on the owner to dispose of the battery. The law says that responsibility is still on the owner if the battery is disposed of improperly by dumping in a landfill, or shipping to a scrap dealer who does not handle it properly and in which environmental damage occurs.

It is illegal to dispose of batteries in any way other than 'thermal recovery' or recycling of the hazardous substances in batteries according to the Environmental Protection Agency (EPA).

The Department of Transportation (DOT) has strict guidelines for the shipping of hazardous materials, which result in large fines if they are not followed.

Check with your local ordinances for proper disposal procedures. SDS sheets are available on-line at <http://www.enovatemedical.com>. Batteries are consumable goods.

Recycling MOBIUSPOWER Batteries - Rechargeable batteries power everything from portable phones and cordless phones to laptops and PDAs. Batteries are a unique product comprised of heavy metals which include nickel cadmium, alkaline, mercury, nickel metal hydride and lead acid, which can threaten our environment if not properly discarded or handled. There are many ways to properly dispose of batteries, most of which depends on the type of battery you have. Lithium-ion rechargeable batteries are less toxic than many others, but it is still recommended that they be recycled.

The Rechargeable Battery Recycling Corporation (RBRC) manages a collection and recycling program for rechargeable batteries. The RBRC accepts rechargeable nicad, NiMH, Lithium-Ion, and small (under 2-lb) sealed lead-acid batteries. The RBRC has made it very convenient for you to recycle your rechargeables by getting retail stores like Home Depot, Target, Wal-Mart, and others to serve as collection points. And it's all free of charge. To find a drop-off point near you in the US or Canada use the Call2Recycle Locator tool at <http://www.call2recycle.org/> (U.S.); <http://www.call2recycle.ca/> (Canada).

Remember: Batteries enable our mobility, so it's likely our society will be using a lot more batteries in the future. But to ensure that we're not slowly poisoning our highly mobile selves, it's important that we do a good job of recycling batteries.

# POWER SPECIFICATIONS

## ECOFLEX

Model	EC-MP, EC-PF	EC-M2, EC-M4 EC-ME, EC-EF
Input Voltage	120 VAC	10.8 VDC
Input Current	4.2 A max	26.1 Ah max
Input Frequency	60 Hz	DC
<b>Output Voltage</b>		
Channel 1	5 – 24 VDC	5 – 24 VDC
Channel 2	5 – 24 VDC	5 – 24 VDC
Channel 3	5 – 24 VDC	5 – 24 VDC
Output Current	5 A max, each channel	5 A max, each channel

## CHARGING STATIONS

Charging Specs	Dual Charging Station	Quad Charging Station
Inlet	IEC 320 C14	IEC 320 C14
Protection	10 A, 250 VAC Fuse	<b>15A BREAKER, 250VAC</b>
Input Voltage	120V +/- 10%	120V +/- 10%
Input Frequency	60Hz	60Hz
Input Current	3.6 Amps max	7.2 Amps max
Output Voltage	12.6 VDC	12.6 VDC
Output Current	8.5 A per bay (max)	8.5 A per bay (max)
Output Power	115 Watts (max) per bay	115 Watts (max) per bay
Measurements	32 cm (12.6") H x 43.2 cm (17") W x 14.7 cm (5.8") D	32 cm (12.6") H x 68.6 cm (27") W x 14.7 cm (5.8") D

## MOBIUSPOWER BATTERY PACKS

Battery Specs	Two Year Battery	Four Year Battery
Chemistry	Lithium Ion	Lithium Ion
Capacity	26.1 AH	26.1 AH
Voltage	10.8 (nominal)	10.8 (nominal)
Charge Time	< 4 hrs.	< 4 hrs.
Measurements	31 cm (12.2") H x 12.7 cm (5") W x 8 cm (3.14") D	31 cm (12.2") H x 12.7 cm (5") W x 8 cm (3.14") D
Weight	2.5 kg (5.5 lbs.)	2.5 kg (5.5 lbs.)

**MAIN POWER CONTROLLER ENCORE ECOFLEX**

Input Voltage	10.8 VDC (nominal)
Input Voltage Range	9.0 VDC – 12.6 VDC
Input Current	14.5 A (max)
Output Voltage	3 Channels variable 5 VDC – 24 VDC
Output Power	3 Channels 120 W (max) each
Output Power Total	161 W (nominal)
Output Protection	Yes
Overload Recovery	Yes
Overload Protection	Yes

**MOBIUSPOWER BATTERY HOLSTER**

<b>Holster Assembly</b>	Encore EcoFlex
Input Voltage	8.5 VDC ~ 15 VDC
Input Frequency	DC
Input Current	30 A (max)

Model:	Protek Power PMP150-12-HI
Input Voltage:	90 VAC – 264 VAC
Input Frequency:	47 Hz – 63 Hz
Input Current:	2 A (rms) for 115 VAC, 1 A (rms) for 230 VAC
Output Voltage/Current:	12.0 VDC, 11.0 A
Charge Time:	< 7 hrs.

<b>AC Output</b>	Output Voltage	120 VAC $\pm$ 3%
	Output Current	1 A
	Output Frequency	60 Hz $\pm$ 1%
	Output Waveform	Pure Sine Wave
	Total Harmonic Distortion	< 3%
	Continuous Output Power	120 W
	Surge Output Power	120 W
	Peak Efficiency	88%
DC Input	Nominal DC Input Voltage	13 VDC
	DC Input Voltage Range	10 – 16.5 VDC
	Maximum Input Current	15 A
	DC Input Current at No Load	< 500 mA
Protections	Low DC Input Voltage	Shutdown at $\leq$ 10 V; Auto-reset at $\geq$ 11.5 V
	High DC Input Voltage	Shutdown at $\geq$ 16.5 V; Auto-reset at $\leq$ 16.5 V
	Short Circuit / Overload	Output voltage drops, but does not shut down. Auto-reset on removal.
	Over Temperature	Shut down when internal hot spot if $\geq$ 105°C / 221°F. Auto-reset on cooling.
	Reverse Polarity on DC Input Side	Automotive Mini Blade Fuse: 32 V, 15 A
Compliance	Safety	Conforms to ANSI/AAMI Standard ES60601-1
	EMI	FCC Part 15(B), Class B / EN 55022: 2006; EN 55024: 1998+A1; 2001 +A2; 2003
	EMC	EN 61000-3-2: 2006 / EN 61000-3-3: 1995+A1; 2001 +A2: 2005
Environment	Operating Temperature Range	0°C to 40°C / 32°F to 104°F

# CLEANING

## LCD MESSAGE CENTER

The Encore LCD message center may be cleaned with a soft cloth or tissue dampened with water (or a mild detergent-water solution). If a detergent solution is used, rinse with a clean tissue dampened with water only. **CAUTION:** The Encore LCD message center is not watertight. Do not use abrasive wipes or tissues on the LCD message center – abrasive wipes may scratch the window. Never use solvents on the window – solvents may damage the finish or window.

## WORK SURFACE

All configurations of Encore workstations utilize an external plastic covering that is designed to resist the effects of harsh chemicals in a health care environment.

## GENERAL WORKSTATION CLEANING INSTRUCTIONS

Nonabrasive cleaners or mild cleaning solutions should be used. As a precaution, we recommend testing the suitability of a cleaning product by applying to an inconspicuous area, minimizing the time of exposure and the amount of cleaning agent used (dilute as recommended by the supplier) to prevent any damage to the surface.

## TESTED AND APPROVED CLEANING AGENTS

- Quaternary ammonium compound
  - Bleach Solution (generic)
  - \*Alcohol Solution (91% isopropyl: Avoid Use on Base)
  - Hydrogen Peroxide
  - Sani-Cloth® Plus Wipes
  - Super Sani-Cloth® Wipes
- 
- Contamination by intensely colored substances such as: coffee, iodine, or dyes, must be removed immediately.
  - Power System should be inspected bi-annually to ensure vent holes and pan guard are free of dust and debris.
  - All paints and plastic cart components will withstand cleaning by most commonly used diluted non- abrasive solutions such as: quaternary ammonia compounds, or bleach.

**CLEANING PRECAUTIONS**

- Do not use steel wool or other abrasive cleaners, solvents, polishes, waxes or steam cleaning tools that will damage the surface finish.
- Do not use strong solvents such as trichloroethylene and acetone; these materials will damage the surface finish.
- Caution should be used in the application of cleaning agents containing Ethylene Glycol Monobutyl Ether including: CaviWipes™, 409® Cleaner, Windex® and ammonia cleaners which have been shown to cause increased brittleness in PC/ABS components over time.
- The use of Zymit® Enzyme Cleaner, Virex® 256, or Micro-90® is not recommended.
- To avoid risk of electric shock, do not expose electrical components to water, cleaning solutions or other potentially corrosive liquids or substances.
- Do not immerse the cart or cart components in liquid or allow liquids to flow into the cart. Wipe cleaner off surface immediately using a damp cloth. Thoroughly dry surface after cleaning.
- Do not use flammable cleaners on cart surfaces due to proximity of electrical power and equipment.

**IMPORTANT INFORMATION**

- The following recommendations should not be construed to guarantee infection control. The hospital infection control administrator should be consulted regarding cleaning procedures and processes.
- \*In some cases, alcohol will strip paint stampings like custom branding and graphics

# MAINTENANCE

No user serviceable parts, repairs and/or upgrades are to be performed by an authorized service provider only. Your device provides reliable and efficient operation with a minimum of care. Although specific maintenance is not required, the following periodic checks ensure dependable operation:

## INSPECTING CORDS AND CONNECTORS

Equipment can be damaged during use and when it's moved from one location to another. Damage can render equipment unsafe to use. Device interface cables, both power and data, ship installed in the Encore workstation.

### PERFORM THE FOLLOWING **SAFETY CHECKS BEFORE ENERGIZING EQUIPMENT**

- When properly installed the plug should fit snug and not wobble in the socket. Look for visible damage to equipment, wall disconnects (holster charger), enclosures and electrical devices
- **IMPORTANT!** Ensure power supply cord has proper grounding with a 3-prong plug
- Inspect cables for wear, look for defects and missing, bent or broken plugs
- Inspect external sheaths of power supply cords to ensure they are not cut, frayed, twisted, or damaged
- Ensure the inner cores of power supply cords are not exposed where they connect to equipment, plugs and/or sockets
- Ensure inner cores of power supply cords are not exposed or twisted along the cord's length
- Ensure there are no exposed, unprotected electrical conductors
- Ensure electrical tape or anything that can cover damage has not been applied to power supply cords and devices
- **NOTE:** If any of the above items exist, immediately tag the item and notify a supervisor or facilities management
- In Addition:
  - Switch off disconnects and equipment before connecting or disconnecting power supply cords
  - Keep power supply cords clear of walkways (holster charger)
  - Keep power supply cords away from heat, sharp edges and moving parts that can damage cord sheath and insulation
  - To prevent overheating, do not use extension cords with MobiusPower Plus
  - Notify maintenance if a power supply cord feels more than comfortably warm
  - Never use adapters to convert 3-prong plugs into 2-prong plugs
  - Pull the plug, not the cord when unplugging equipment. Pulling the cord causes unnecessary wear and adversely affects wiring to the plug
  - Walk or look all around equipment prior to moving to ensure it has been completely disconnected from the wall outlet



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