

M38 MOBILE COMPUTER CART

OPERATING MANUAL























Rev 1/21/2009

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SUMMARY OF WARNINGS

-  The power system is designed for power cart mounted equipment only. Do not connect equipment that is not mounted on the cart into the power system outlets. Do not connect cart mounted equipment directly into a power source that is not mounted to the cart.
-  Where the integrity of the external PROTECTIVE EARTH CONDUCTOR arrangement is in doubt, the equipment shall be operated from its internal electrical power source (battery).
-  The supplied spiral cord is rated for medical use. Connecting the cord to an outlet that is not medical grade (indicated with a green dot) will not ensure grounding protection.
-  Spiral cord, power system and cart are for INDOOR use only. **DO NOT OPERATE OUTDOORS.**
-  Keep spiral cord away from water. **DO NOT PLUG CORD INTO OUTLET IF WET.**
-  **DO NOT OPERATE POWER SYSTEM IF WET.** If your cart becomes wet, unplug it immediately, wipe off any excess liquid, and allow it to dry before using again.
-  Breaking the seal on the battery to add water will damage the battery and could cause injury.
-  EQUIPMENT not suitable for use in the presence of a **FLAMMABLE ANESTHETIC FIXTURE WITH AIR, or WITH METERED OXYGEN OR NITROUS OXIDE.**
-  Inspect spiral cord before each use. **DO NOT USE CORD IF DAMAGED.**
-  Fully insert spiral cord plug into outlet. **DO NOT** unplug by pulling on cord. **DO NOT** remove, bend or modify any metal prongs or pins of spiral cart cord.
-  **DO NOT** use excessive force to make connections.
-  **DO NOT ALLOW CORD TO OVERHEAT**
-  **DO NOT** drive, drag or place objects over spiral cord. Do not stand or walk on spiral cord.
-  Only authorized personnel, experienced in servicing electrical equipment should open the power system.
-  Do not use an electrical extension cord with your cart.
-  Do not use a flammable cleaner on the station as it can result in fire or explosion.
-  **Do not adjust lift mechanism until** cart has been outfitted with technology. Failure to do so may cause shuttle and work surface to rise rapidly when actuator is released potentially causing personal injury or damage to the cart.

Symbol	Signal Word	Level of Hazard
	IMPORTANT	Indicates a situation that does not present any hazard but is very important in maintaining a well functioning cart.
	ATTENTION	Consult accompanying document to avoid a potentially hazardous situation which may result in minor or moderate injury.
	ELECTRICAL	Indicates an impending electrical hazard which, if not avoided, may result in personal injury, fire and/or death.


**LEAD BATTERY
MUST BE
RECYCLED**

CART DISPOSAL
 Dispose of this cart according to local guidelines and regulations for waste. Contact **Rubbermaid** Customer Service for more information: 1-888-859-8294

Transport/Storage
 Care should be taken to transport and store this system within a temperature range of 32° F to 90° F (0° C to 32° C); Pressure 500 hPa to 1060 hPa; Humidity 20% RH to 95% RH non-condensing

INTRODUCTION

Rubbermaid computer carts combine a compact, lightweight design, superior ergonomics and a comprehensive set of nursing features making them ideal for point of care applications. This manual covers the following three configurations:

1. AC Powered Computer Carts operate an LCD monitor with a small form factor CPU that can be housed under the work surface.
2. AC Powered Computer Carts with External CPU Storage operate an LCD monitor with small form factor CPU too large to be stored internally.
3. Non-Powered Computer Carts operate self powered devices such as notebooks and tablet PC's.



STANDARD FEATURES ACROSS

- | | |
|--|---|
| <ol style="list-style-type: none"> 1. Shuttle 2. Lift Mechanism Tension Adjustment 3. Lift Mechanism Tension Indicator 4. Work Surface with Document Protector 5. Ergonomic Front Handle 6. Keyboard Light 7. Height Adjustment Lever 8. Adjustable Keyboard Tray with L/R Mouse Surface | <ol style="list-style-type: none"> 15. Mast and T-Track Mounting Channel 16. General Purpose Bins 17. Contoured Rear Handle 18. Internal Technology Cabinet 19. Key Access to technology cabinet 20. AC Outlet Strip 21. Spiral Power Cord 22. Keyless locking drawer (<i>optional</i>) |
|--|---|

SKU SPECIFIC

POWERED CART FEATURES

9. LCD Monitor Bracket
10. Power System Interface
11. Battery Access Panel
12. Power System Access Panel
13. Powered USB Hub
14. Secondary Outlet Strip (*not shown*)

POWER CART WITH EXTERNAL CPU STORAGE

23. CPU Holder
24. Quick start pre-wired USB & DVI



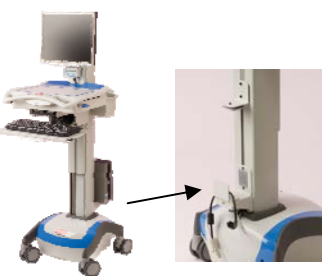


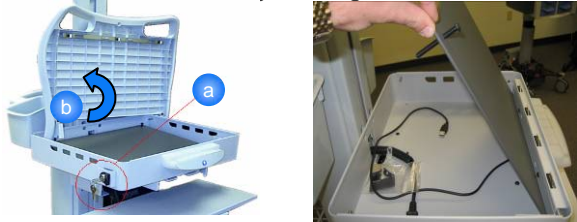
NON-POWERED CART FEATURES



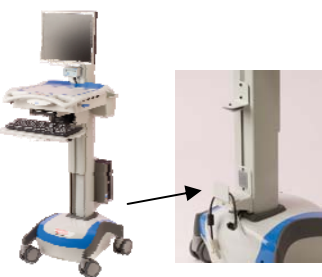
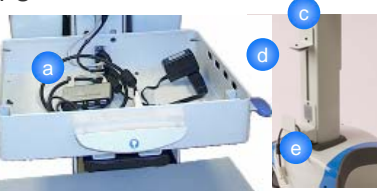
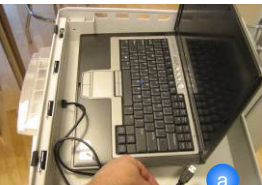
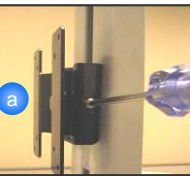
25. Laptop Screen Retainer Clip
26. Adjustable Laptop Platform (*not shown*)
27. Laptop Monitor Pass Through

START-UP

Start-up instructions are detailed below. Please identify which version you have at the top of the table below and adhere to the guidelines as follows

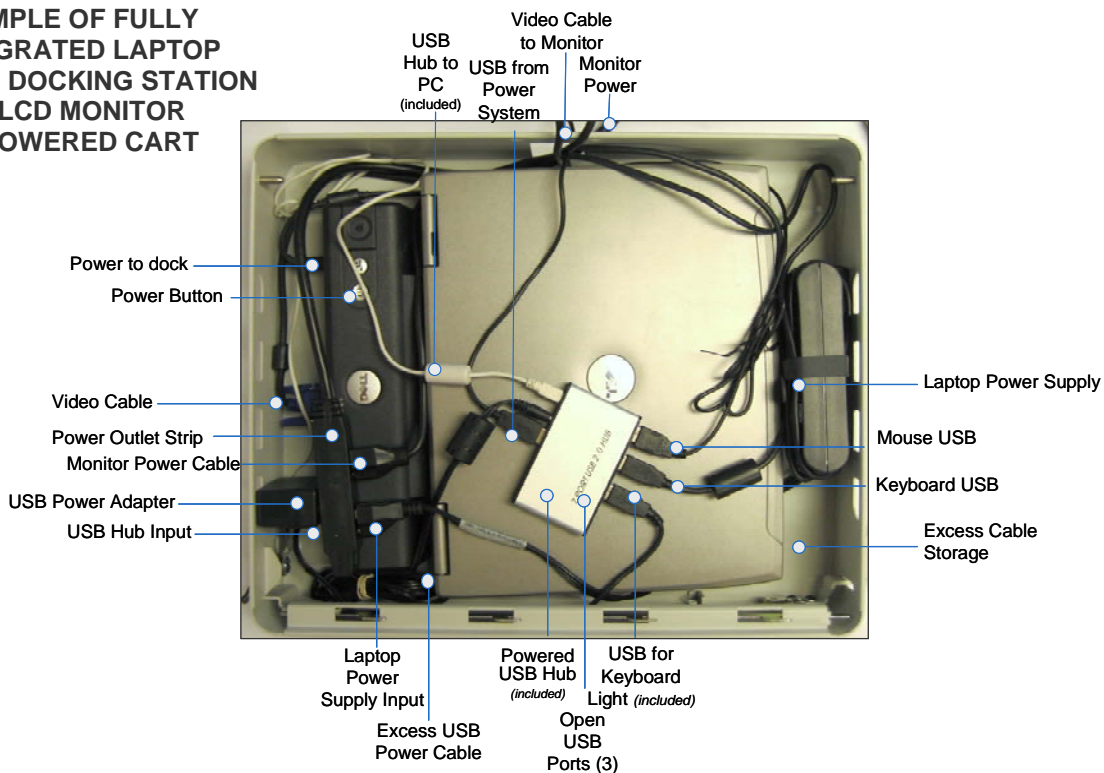
1. Steps that go across all columns are common to every version.
2. When the table is split into multiple columns only follow the instruction under the version that you have.

Non-Powered	AC Powered with Internal CPU Storage	AC Powered with External CPU Storage
		
<p>Tools Required</p> <ul style="list-style-type: none"> • 4mm or 5/32" Security Hex tool • 11/16" Socket and Ratchet • Ball End Metric Allen Key Set • Wire ties or Velcro for Cable Management 		
<p>Assembly Notices & Warnings</p> <p> LIFT TENSION: The cart is shipped with only enough tension on the lift mechanism to operate an empty cart. As equipment is added, the lift mechanism will be easier to lower and more difficult to raise until the tensions is adjusted as described in step 6. Take care when adjusting the lift mechanism until it is balanced for the load that has been added to the cart</p> <p> FASTENERS: Do not over tighten screws. In addition to damaging the screw, components can be damaged.</p> <p>NOTICE - "RIGHT" and "LEFT" are your right and left when facing the front of the cart</p>		
<p>1. Remove the work surface</p> <p>The work surface is fully removable. To remove:</p> <ol style="list-style-type: none"> a) Unlock the unit by turning the key counterclockwise on the left side of the work surface box. Grab the gray pull tab located by the key, and pull away from the unit. The lock and tab should slide away from the box. This step may require some force. b) Grasp the work surface handles and rotate the entire work surface upwards. Place work surface off to the side. <p>NOTE: On the <u>NON-POWERED VERSION</u>, the laptop platform will be revealed. Underneath this platform is the outlet strip and USB cable for the keyboard light.</p> <div>  </div>		
<p>2. Add Keyboard and Mouse (and bar code scanner)</p> <ol style="list-style-type: none"> a) Position Gel wrist rest and keyboard in desired position. Consider adding Velcro® fastener to the underside of the gel wrist rest and keyboard to minimize the risk of it becoming separated from the cart. Run the connector end of keyboard tray through hole in the underside of the technology cabinet b) Open mouse tray and place mouse on surface. Run the connector end of the mouse through the same hole in the underside of the technology cabinet c) While keyboard and mouse trays are in their fully extended position, pull excess cable slack into the technology cabinet and wire tie cable to prevent excess cable from being pulled out. d) If a bar-code scanner will be used with the cart, route the connect end into the technology cabinet. Ensure enough slack is available for the intended use before wire tying the excess cable. 		
<p>3. Add Laptop to Cart</p> <ol style="list-style-type: none"> a) Plug the power supply for laptop into outlet strip. b) Grasp the connector ends of all 	<p>3. Add CPU to cart</p> <ol style="list-style-type: none"> a) Plug power supply from CPU into outlet strip b) Place CPU into box 	<p>3. Add External CPU</p> <ol style="list-style-type: none"> a) Connect USB cables into power hub provided b) Using the hex key provided loosen

Non-Powered	AC Powered with Internal CPU Storage	AC Powered with External CPU Storage
		
<p>cables and hold the above the back end of the box while lowering the laptop platform back down.</p> <p>c) Place laptop on platform</p> <p>d) Plug all connectors into laptop including the keyboard light</p> <p>e) Replace the work surface and test that the work surface can be completely closed and locked. (see step 5 below, Attaching the Work Surface)</p> <p>f) Determine if monitor is sufficiently protruding up through the opening</p> <p>g) If the monitor height needs to be adjusted up or down, the height of the platform can be adjusted by turning the screws on the back corners of the laptop support platform</p>	<p>c) Connect USB connectors into the power hub provided.</p> <p>d) Connect USB hub to CPU</p>	<p>the CPU depth control bracket until it the CPU will fit. Tighten bracket until inner bumper is snug to the CPU</p> <p>c) Loosen vertical bracket using a 4 mm hex security tool and position until it sits snug to the top of the CPU and tighter fastener</p> <p>d) Further tighten the fastener on the L-shaped top plate</p> <p>e) Locate cables extending out of opening in the column above the base</p> <p>f) Plug the IEC power connector directly into the CPU or external power supply provided with the CPU. If IEC cable does not fit, plug end of CPU's power supply directly into outlet strip inside the base by routing it through the opening in the back of the column and down the center (see accessing power system)</p> <p>g) Connect USB and Video cable to the CPU</p> 
<p>4. Connecting the keyboard light</p> <p>a) The cart includes a USB powered keyboard light. The keyboard light is powered by a USB port in the laptop on the non-powered version. The LED consumes less than 1 minute of battery life per of continuous use.</p> <p>a) Plug USB connection into one your laptop USB ports</p> 	<p>4a. Attach LCD Monitor to Cart</p> <p>a) Remove monitor cleat from monitor bracket by unfastening the security bit with 4 mm security hex tool (bit included) on the side. Lift up to remove.</p> <p>b) Attach the bracket to the monitor using the fasteners provided with the monitor.</p> <p>c) Slide the cleat into the bracket and fasten</p>  <p>4b. Connect Monitor Cables</p> <p>a) Route the video and monitor power cables behind the power system interface bracket and into the technology cabinet.</p> <p>b) Plug power cable into outlet strip. Connect video cable into CPU. Wire tie remaining excess cable.</p>	<p>4b. Connect Monitor Cables</p> <p>a) Route and connect the video cable provided with the cart from the technology cabinet to the monitor.</p> <p>b) Route monitor power cable behind the power system interface bracket and into the technology cabinet.</p> <p>c) Plug power cable into outlet strip. Wire tie remaining excess cable</p>

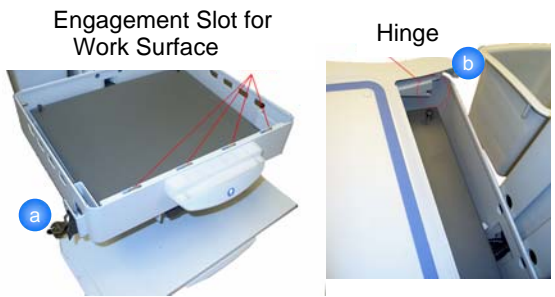
Non-Powered	AC Powered with Internal CPU Storage	AC Powered with External CPU Storage
		

EXAMPLE OF FULLY INTEGRATED LAPTOP WITH DOCKING STATION AND LCD MONITOR ON POWERED CART



5. Attaching the Work Surface

- Ensure the lock and pull tab on the left side of the box are extended away from the technology cabinet.
- The hinges on the back underside of the work surface need fully engage with the pins inside the box. Line up the hinge and pins and push the work surface cover down at an angle until it fully engaged.
- Lower work surface down onto box.
- Slide the lock and pull tab in so that it is flush with the side of the technology cabinet
- Turn key clockwise to lock.
- Grab handles to ensure it is locked



6. Secure Laptop Screen Retainer Clip

- Position laptop such that the front edge of screen is touching the back edge of the work surface opening
- Loosen fastener on laptop screen retainer clip and position over top of laptop screen to retain it in place and prevent unwanted movement



7. Adjust Lift Mechanism Tension

Non-Powered	AC Powered with Internal CPU Storage	AC Powered with External CPU Storage
		

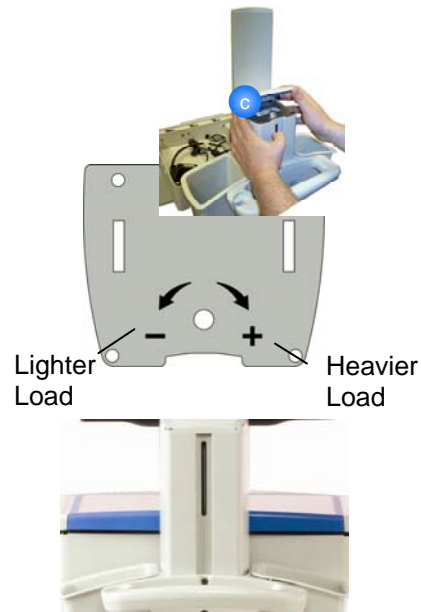


WARNING: Do not adjust lift mechanism until cart has been outfitted with technology. Failure to do so may cause shuttle and work surface to rise rapidly when actuator is released potentially causing personal injury or damage to the cart.



WARNING: The cart is shipped with only enough tension on the lift mechanism to operate an empty cart. As equipment is added, the lift mechanism will be easier to lower and more difficult to raise until the tension is adjusted. Take care when adjusting the mechanism until it is balanced for the load that has been added to the cart

- Once the lift mechanism has been adjusted, the effort required to raise and lower the cart should feel balanced.
- To test the lift performance at any point, lift and hold blue actuator handle under right side of work tray. Release handle when the desired height is reached. You may hear a click as the actuator pin finds a hole in the column to engage into.
- To adjust the spring force on the lift mechanism, you will need to turn the adjustment bolt located underneath the cap on the mast. To remove the cap, run your thumbs up the t-track until the cap pops off.
- The adjustment bolt can be turned with an 11/16" socket wrench. The adjustment bolt is labeled plus (+) and minus (-) illustrating the direction to turn the bolt as weight is added or removed.
- As you turn the bolt, periodically check the lift force of the lift mechanism to see if it is balanced (see step 6.c) Note, that it takes many turns to have a significant impact on the force.
- As the tension is changed, a tension level indicator will move within the column slot on the back of the mast. If your technology set-up is consistent across carts, you can use this indicator as a reference point to expedite the adjustments required on additional carts.



8. Charging Unit

- Once unit is fully integrated, it should be plugged into a medical grade outlet to ensure the laptop on-board remains in a fully charged state.

8. Charging Unit

- Plug the cord into a medical grade outlet. The LED on the power system interface will flash until the battery is 100% full.



The battery must be fully charged prior to the cart being deployed for the first time

9. Testing the Unit

- To ensure the laptop is receiving power, press the keyboard light button. If the light turns on the unit is working properly. If it does not, ensure the keyboard light is plugged into a USB port and retest.

9. Testing the Unit

- Power is not supplied to the outlet strip unless the unit turned on. To turn on the unit, press and hold the power button on the power system interface for approximately 2 seconds. The power system will beep and the left LED light will turn on. At this point, all powered devices connected to the outlet strip should power up. See Power System features and overview for more detailed instructions on the power system

10. Adjusting Rear Handle Position

- Position of rear handle can be adjusted by slightly loosening (BUT NOT REMOVING) the two fasteners with a 4 mm hex tool until the handle is free to slide. Once desired height is found, tighten fasteners. Handle can be fully removed from cart by sliding up the track. The cap on the mast must first be removed by sliding your thumbs up the t-track until the cap pops off.

GENERAL OPERATION

Document Cover:

Accommodates reference materials as large as legal size paper. Cover can be removed for cleaning by pulling up on back corners side until pins release

Keyboard Light: Press on/off. Light automatically shuts off after a set period of time

Keyboard Tray: Tray can be pulled out 8". Left and right mouse pads rotate out. Angle and height of tray can be adjusted by loosening the knob behind the tray. Tighten when desired position is found



Multipurpose bins: can be removed for emptying or cleaning. To remove, grab outside edge of bin and lift up

Height Adjustment: Lift blue lever on side; release at desired height

Spiral Cord: Always plug cart in when not in use or if power levels reach low levels. Hang cord on rear handle when not in use

Additional Instruction for Powered Version



On/Off Indicator:

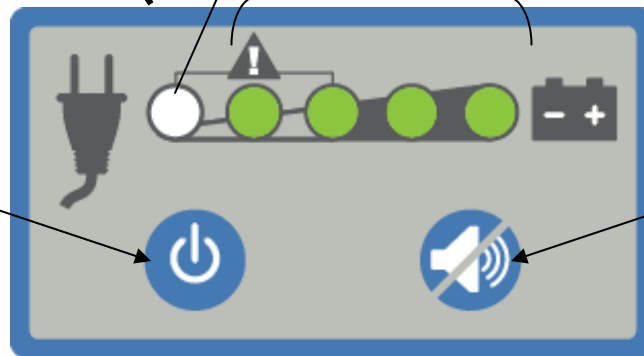
When lit indicates power system is on and PC is receiving power.

Battery Level Indicator:

Battery indicator will alarm at 20% remaining life. Immediately plug in cart and alarm will go off.

Power Button:

Press and hold this button to shut off all cart power. This should be done only the cart will not be plugged in or used for an extended period of time



Mute Button:

Press button to mute alarm when battery reaches 20%. If battery reaches 10%, mute will not work. Cart must be plugged in

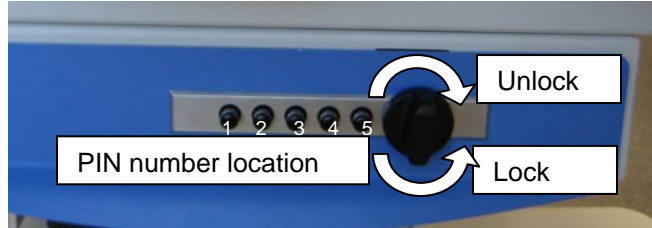
LOCKING DRAWER (models 9M38-01-XXX)

Default Drawer Lock Combination

The factory pre-set combination is 2 and 4 pressed simultaneously (and released), and then press 3 (and release). With new combinations each button may only be used once. Buttons can be pressed simultaneously for more complex codes.

Opening Drawer

1. Enter PIN Code
2. Turn knob to right (clockwise)
3. Open Drawer

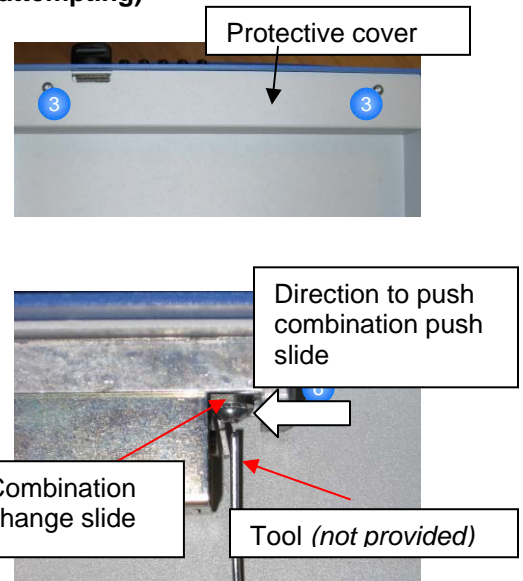


Locking Drawer

1. Push drawer in while lock is in unlocked position
2. Turn knob to the left (counterclockwise)
3. Test to ensure drawer is locked
4. If drawer is not locked, unlock drawer by re-entering PIN code
5. Repeat steps 1-3

Combination change procedure (read instructions once before attempting)

1. Enter combination
2. Open drawer
3. Remove protective cover for lock by unfastening hex screws on top inside of drawer. Push down slightly on protective cover and slide it towards the back of the drawer until it comes loose
4. Turn knob to the left (locked position)
5. Enter the combination but do **NOT** turn the knob.
6. Using your finger or a tool, push the combination change slide towards the lock until you hear a clicking sound.
7. Turn the knob counterclockwise to the stop position and release. This clears the old combination.
8. Select a new combination. Some or all of the buttons may be used for your new combination - pressed individually or simultaneously. Each button may be used only once. We do not recommend the use of a one-button combination.
9. Enter your new combination. Depress each button fully and release it. You must feel a click each time you press button to know that it was fully depressed
10. Turn the knob to the right (clockwise) to the stop position and release to activate the new combination
11. Enter new combination and test operation.

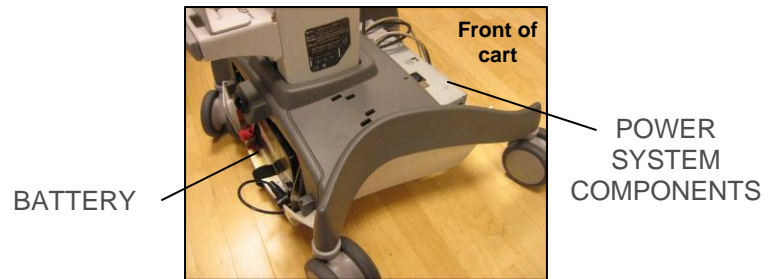


NOTE: The lock can be disabled by following the combination change procedure and skipping step 9. To reactive lock, follow procedure and skip step 4.

POWER SYSTEM OVERVIEW (Powered Carts Only)

OVERVIEW

The base of the cart has an integrated power system and battery that supplies power to the cart. The Power System Interface is located above the work surface on the shuttle.



POWER SYSTEM SPECIFICATIONS

All components of the power system are contained within the base of the cart with the exception of the POWER SYSTEM INTERFACE and optional Power Alert software. The power system is contained in a single metal housing in the base and contains a TRUE SINE WAVE INVERTER, CHARGER, ISOLATION TRANSFORMER, and AUTOMATIC TRANSFER SWITCH. The cart also comes standard with a sealed lead acid battery optimized to work the power system. Two 3 OUTLET POWER STRIPS are connected to the power system for running peripheral devices. An EXTERNAL SPIRAL CORD is connected to the base of the cart.

Charger: The power system module includes a 3 stage, 10 amp charger that is designed to match the onboard battery. The upper voltage limits have also been altered to maximize battery cycles. The system also monitors the battery voltage to prevent overcharging. The charger is designed to charge the battery to a maximum of 14.2 volts.

True Sine Wave Inverter: Converts DC power to True Sine Wave 120 V AC Power, 350 Watt Output. Inverter ensures power factor corrected devices, like flat panel monitors, operate properly.

Automatic Transfer Switch: enables full use of computer without interrupting battery charging by switching power draw from the battery to the wall outlet when the unit is plugged in.

Isolation Transfer: Ensures full UL 60601-1 compliance by managing current leakage of connected equipment protected sensitive equipment commonly found in a healthcare environment.

Battery: 35 or 55 AMP Sealed Lead Acid (SLA) 12 V. The battery does not contain a memory, and therefore can be charged regardless of the current state of charge. It is recommended that the battery be charged whenever the unit is not in use as this will ensure that the unit is ready to use and will help extend battery life.



Battery warranty is automatically void when a fully discharged battery is left in an unused state for more than three (3) consecutive days.

Outlet Strips: Two 3 outlet power strips are secured within the cart. Two outlets under the work surface are available for technology integration. One outlet is available in the base for technology integration.

External Spiral Cord: Hospital grade external spiral cord is 2.5 ft in resting position and extendable to 8 ft. Overextending the cord may cause permanent damage and void warranty.



WARNING: The power system is designed for power cart mounted equipment only. DO NOT connect equipment that is not mounted on the cart into the power system outlets. DO NOT connect cart mounted equipment directly into a power source that is not mounted to the cart.



WARNING: The supplied spiral cord is rated for medical use. Connecting the cord to an outlet that is not medical grade (indicated with green dot) will not ensure grounding protection.



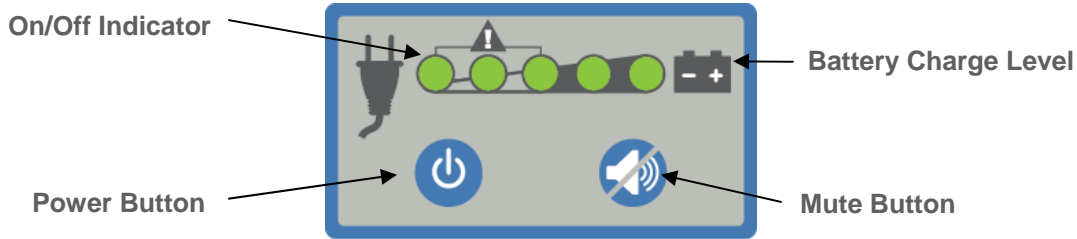
WARNING: Spiral cord, power system and cart are for INDOOR use only. DO NOT OPERATE OUTDOORS.





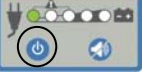

WARNING: Inspect spiral cord before each use. DO NOT USE CORD IF DAMAGED. DO NOT remove, bend, or modify any metal prongs or pins of spiral cart cord.

POWER SYSTEM INTERFACE

The Power System Interface is located above the work surface on the shuttle and contains the On/Off controls, Mute for the Low Battery Audible Alarm, and the battery charge level indicator.



Using the Power System

ACTION	STEPS REQUIRED	INTERFACE RESPONSE	WHEN TO USE
TURNING ON SYSTEM	Press and hold power button for approximately 2 seconds 	<ul style="list-style-type: none"> • Systems beeps • LED on left side turns green. • All Devices plugged into outlet strip will receive power 	<ul style="list-style-type: none"> • During initial start-up • After replacing battery • If system has been shut-down • If system has shut itself down after reaching critically low battery charge levels
TURNING OFF SYSTEM	Press and hold button for approximately 2 seconds 	<ul style="list-style-type: none"> • System beeps • LED on left side turns off • If system is plugged in, the other LED's will remain on to indicate the battery charge level • All Devices plugged into outlet strip will STOP receiving power 	<ul style="list-style-type: none"> • If cart will not be used or plugged in for an extended period of time. • Before a battery change • If Power System is going to be serviced • If Audible alarm cannot be muted after plugging in system • If the cart is being move to a different facility or put into long-term storage
USING THE MUTE BUTTON	Press and hold until audible alarm discontinues 	<ul style="list-style-type: none"> • System beeps • Audible alarm will silence as long as battery level is above 10%. At 10%, the alarm, even if previously muted will resound every minute. Either charge the battery or shut down the unit. Failing do one of these things will damage the battery 	<ul style="list-style-type: none"> • When the audible alarm first goes off at the 20% battery remaining level. When alarm first sounds, the cart should be plugged in as soon as possible to avoid reaching a critically low level that could damage the battery.

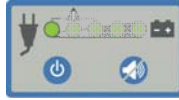
LED DISPLAY OVERVIEW

POWER SYSTEM INTERFACE – LED REVIEW

LED POSITION 1 (Power on/off)



Solid Green – System is on and all devices are receiving power.



No Light – System is turned off. If cart is plugged in, unit can still be charged.



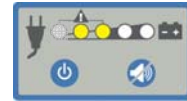
LED POSITION 2-5 (Charge Level)



Flashing Red – Less than 20% battery life remains. Plug in immediately



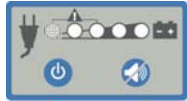
Solid Yellow – Less than 50% battery remains. Plug in as soon as possible



Solid Green battery is at least 50% charged. Device should still be plugged in when possible to maximize the life of the battery.



No Light – Power system is turned off or the battery is not properly connected to the power system



LED POSITION 5 (Charging Status when plugged into wall outlet)



Flashing Green - battery is charging



Solid Green - battery is fully charged



Charge Level Indicator Summary (Discharging)

○ Indicates ON/OFF only






Approximate Battery Charge Level



Low Battery Alarm

90-100%	Green	Green	Green	Green	OFF
50-89%	Green	Green	Green	OFF	OFF
20-50%	Yellow	Yellow	OFF	OFF	ON
<20%	Flashing Red	OFF	OFF	OFF	ON

BATTERY REMOVAL AND REPLACEMENT

-  Only use batteries specified by Rubbermaid Medical. Failure to do so will void power system warranty. Call customer service for details.
-  Do not replace battery in oxygen rich environments as it is possible for sparking to occur.
-  Always unplug the power cord from the wall outlet when removing the battery.

There are two conditions when a battery should be removed:

1. When the battery needs replacing
2. When the cart will be placed into long-term storage (more than 60 days without use)

BATTERY REMOVAL (POWER CARTS ONLY)

Tools Required

Ball End Metric Allen Key Set

Phillips Screwdriver or 10 mm Wrench (for disconnecting battery)

1. Power Down System

- a) Turn off any components plugged into cart (example – PC, Monitor)
- b) Turn off Power System by Holding On/Off switch for 2 seconds

BATTERY REMOVAL (POWER CARTS ONLY)

2. Long-term Storage (greater than 2 months)



WARNING: If cart will not be used for more than 2 months, turn off the cart by holding the on/off button. The battery will need to be recharged every 30 days to prevent damage.

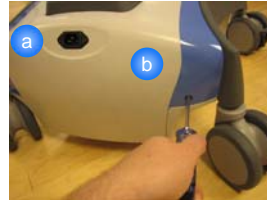


If you wish to store the battery separate from the cart, Store battery in a cool dry location.


3. Unplug Power Cord from Wall Outlet

4. Remove Battery Access Panel and Battery Retainer Strap

- Unplug power cord from battery access panel
- Using 4mm hex key or 5/32" remove two fasteners on lower rear panel of battery access panel and place aside
- Remove Battery Retainer Strap by undoing clasp and unthreading strap from buckle



5. Disconnect Battery Cables from Battery

- Remove black boot from terminal
 - Use wrench or screwdriver to remove bolt from battery terminal.
-  WARNING: Do not allow any metal objects or tools to contact both a terminal and other metal parts (including the other battery terminal) at the same time.
- Remove red boot from terminal
 - Use wrench or screwdriver to remove bolt from battery terminal
 - Place disconnected cables off to side.
 - Grasp handles on battery and slowly pull out



LEAD
BATTERY
MUST BE
RECYCLED

6. Place Battery Back in Cart

- With the bottom of the battery facing the cart, slide the battery into the cart. The terminal ends should be pointing out towards the back of cart.

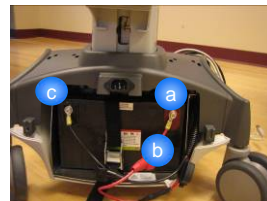


7. Connect Battery Leads to New Battery



WARNING: Always connect the Red (+) terminal first. Do not allow any metal objects or tools to contact both a terminal and other metal parts (including the other battery terminal) at the same time.

- Fasten Red Connector to Red (+) Terminal using terminal bolt. A harmless spark may occur when connector touches terminal. Quickly tap connector to terminal to diminish effect.
- Cover terminal bolt with protective red boot
- Fasten Black Connector to Black (-) Terminal using terminal bolt
- Cover terminal bolt with protective black boot. Tuck excess battery cable into battery cavity
- Place Battery Access Panel back on cart and tighten fasteners with Allen Key
- Reconnect power cord to Battery Access Panel



8. Check Battery Level and Charge

- Plug unit into wall. Power System Interface will indicate Battery Charge Level.
- If battery is full, green solid LED's should light up. If LED on far right side is flashing battery needs to be fully charged.

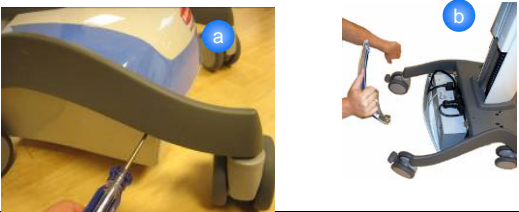
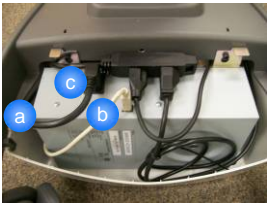
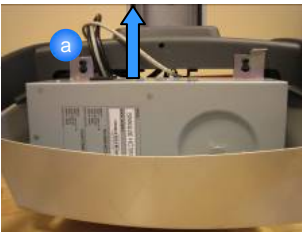
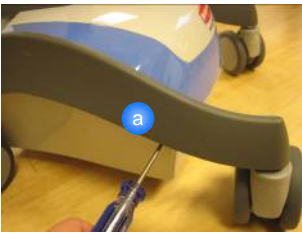
POWER SYSTEM REMOVAL/INSTALLATION



Power system should only be accessed if advised by Rubbermaid personnel and according to the instruction detailed below



Always unplug the power cord from the wall outlet when removing the Power System.

POWER CARTS ONLY	
Tools Required Ball End Metric Allen Key Set Wire tie cutter	
1. Power Down System a. Turn off any components plugged into cart (example – PC, Monitor) b. Power down system by Holding On/Off switch for 2 seconds	
2. Unplug Power Cord from Wall Outlet	
3. Remove Power System Access Panel a) Remove screws with a 4mm hex key b) Remove power system access panel	
4. Disconnect Cables from Power System a) Unplug black and grey CAT 5 cables from unit. b) Unplug USB cable from unit. c) Cut wire tie and unplug AC power strip from unit.	
5. Remove Power System a) Loosen the two (2) screws at top of mounting bracket. b) Lift power system unit up and away from cart to free unit from mounting screws c) Unplug AC input power cord. d) Unplug yellow battery terminal connector from unit. e) Lift Power System Unit out of the base by the mounting bracket.	
6. Installing New Power System a) Lower Power System into the base using the two (2) mounting brackets. b) Connect yellow battery terminal. c) Connect AC Power Input. d) Lift and mount the unit onto the fasteners. e) Tighten the fasteners with hex key.	
7. Connect Cables to Power System a) Connect AC power strip and zip tie back in place. b) Connect USB cable. c) Connect black and grey CAT 5 cables.	
8. Attach Power System Access Panel a) Secure panel by tightening fasteners on either side of wheel base.	

MAINTENANCE



Unless it is covered in this manual, DO NOT service or make any modification or replace any parts on your cart. Only Rubbermaid or an approved technician should service or make modifications to the cart.



DO NOT use the cart if any pieces are missing or if there is any damage to the cart. In these cases, immediately contact Rubbermaid Customer Service for more information.

Cables:

Always keep the cables neatly organized and be sure to route excess cables away from moving components with wire ties or cable clips.

Casters:

To ensure that the cart travels smoothly, check the casters periodically to make sure they are free of debris and clean. Keep the cart away from uneven, dirty or damaged surfaces.

Fasteners:

If fasteners become loose please notify Rubbermaid Customer Service. If fasteners need to be tightened, do not over tighten screws. In addition to damaging the screw, components can be damaged.

Spiral Cord:

Periodically inspect cord and plug to ensure plug is not bent and cable is not frayed.

CLEANING

CAUTION:



Because of the close proximity of electrical power and equipment, flammable cleaners should never be used on the cart!

- Verify that your cart is unplugged from the wall outlet before cleaning.
- Allow your cart to dry completely before plugging the power cord into a wall outlet.
- When cleaning the cart, wipe cleaners off of surface with a damp cloth and thoroughly dry.
- Never cover the cart or its components in liquid or allow liquids to flow into the cart.
- Never use steel wool or other abrasive material as these could damage the surface finish
- Before using any cleaner on the cart, first test on a small area to ensure that the surface is not harmed. These guidelines cannot guarantee infection control. The hospital's Infection Control administrator should be consulted for cleaning procedures and processes.

RECOMMENDATIONS:

- Clean plastic components with diluted, non-abrasive solutions. Suggested cleaners are water, soap, diluted bleach and alcohol solutions.
- Remove pen and dry erase marker stains with a soft cloth and 91% isopropyl alcohol.
- Remove iodine stains with a soft cloth and any cleaners suggested above.



DO NOT use the following chemicals to clean your cart: Acetone, Mineral Spirits, Abrasive Cleaners, Paint Thinner or any other harsh or toxic chemicals.

CLEANING OF HIGH TOUCH POINT ITEMS

1. **Work Surface** is fully removable to facilitate cleaning (see Step 1 of Start up instructions)
2. **Document Protector** is removable for cleaning by pulling up on back corners. To replace press nylon fastener into hole in work surface. Document protector is a replaceable item
3. **Back Handle** is fully removable (see Step 9 of Start up instructions)
4. **Rear Bins** can be removed by grabbing outside edge of bin and lifting up
5. **Keyboard Tray and Mouse Pads** - Tray and mouse pads are composed of melamine resin and are easy to wipe down.

TROUBLESHOOTING

Cart Won't Power Up:

- Plug power cord into a working hospital grade outlet
- Check to ensure power cord is plugged securely into back of cart
- Check to see if the Power System Interfaces (PSI) is charging when plugged in.
- If the charge level is critically low (last one or two LED's on) let cart charge until full
- If the cart does not start, check to see if the cables to the PSI are securely plugged in.

Cart Won't Charge:

- Check to ensure external spiral cord is plugged into base of cart.
- Ensure outlet is functionally operational
- Plug the power cord into a working hospital grade outlet.
- Check to make sure the power cord is plugged securely into the back of the cart.
- Check to see if the PSI indicates the station is charging when plugged in.
- If the charge level is critically low (last one or two LED's on) let the cart charge until full
- If the cart still does not charge, check to see if cables to the PSI are securely plugged in.

Audible Alarm will Not Turn Off

- When the battery reaches approximately 10% of capacity remaining, the audible alarm will sound. The alarm may be muted for 1 minute. Until the cart is plugged in to charge the audible alarm will continue to sound every minute.
- If alarm fails to go off after plugging in cart for several minutes, power down unit by holding on/off button for 2 seconds.

Lift Mechanism Performance:

- If cart is hard to move up and down, adjust preload as needed (see step 7, page 8)

Cart Is Hard To Push:

- Check that the caster locks are in the unlocked (up) position
- Examine casters to see if any debris is caught in them

Keyboard Tray Will Not Raise or Lower:

- Check for cable obstructions.
- Adjust the keyboard arm tray arm knob counter-clockwise to loose
- Adjust the keyboard arm tray arm knob clockwise to tighten

Keyboard Light Does Not Work for Non-Powered Version:

- Make sure USB cable is plugged into Laptop

Keyboard Light Does Not Work for Powered Carts:

- Verify powered USB Hub is plugged into power supply (green light indicator)
- Check to ensure USB cable is plugged into Hub

Mouse Does Not Work Properly (Powered Cart Only):

- Verify powered USB Hub is plugged into power supply (green light indicator)
- Make sure mouse is plugged into the USB hub
- If problem persists, plug device into another cart to see if it functions properly

Keyboard Does Not Work Properly:

- Ensure USB Hub is powered and plugged into power supply (green light indicator)
- Make sure keyboard is plugged into the USB hub
- If problem persists, plug device into another cart to see if it functions properly

Computer Does Not Work Properly:

- Check that computer has power
- Check the battery charge. If at 0%, recharge the battery
- If problem persists, plug device into another cart to see if it functions properly

WARRANTY & SERVICE OVERVIEW

Service Level Commitment

Rubbermaid Medical Solutions is committed to providing best-in-class service. This document details our standard warranty and instructions on how to request service using our customer support system.

LIMITED WARRANTY

Rubbermaid Medical Solutions (RMS) is pleased to offer a three year warranty on durable components and a two year warranty on electronic components (commencing on the date of receipt by client). Battery performance is warranted for three months from the date of receipt of product.

If during the warranty period this RMS product proves defective in materials or workmanship under normal use by the original purchaser, please contact RMS technical support at www.rubbermaidmedical.com/service (please be sure to complete all information, including product serial number, description of the issue and full contact information). RMS will determine, in its sole discretion, how to best address your warranty issue, which may include sending you a replacement part or providing on site technical assistance. RMS reserves the right to require proof of purchase prior to honoring any warranty request. This warranty does not cover product abuse, modification, failure to adhere to product instructions, improper operation/misuse. RMS SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES WHATSOEVER. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state or country to country.

An extended warranty may be available for this product. Should you wish to purchase an extended warranty, please contact your RMS sales representative.

Service Details:

Components generally requiring on-site technical assistance may include, but are not limited to: cart electronics, lift mechanism, power system, locking mechanism and structural failures.

Components that generally do not warrant on-site technical assistance may include, but are not limited to: scanner holder, power cord, drawers, battery replacement and casters.

REPLACEMENT PARTS AND REQUESTING SERVICE

Please visit our website at: www.rubbermaidmedical.com/support

Statement of Use:

Rubbermaid Medical Solutions is dedicated to providing innovative quality products. Our goal is to increase the capacity to care by improving productivity, ergonomics and compliance, while enhancing your facility image.

These mobile carts are designed for safe use in general patient areas for the purpose of clinical data entry and retrieval. These carts have no potential electromagnetic or other interference risks when operated according to guidelines covered in this instruction manual.

Tested to comply with:

- EN 60601-1:2003–
Medical Electrical Equipment, Part 1:
General Requirements for Safety –
Collateral Standard: Electromagnetic
Compatibility – Requirements and Test

- FCC PART 15, Subpart B, Class A -
Unintentional Radiators

This product is classified as:

Class 1/ Internally powered device with
This equipment is designed for continuous
Class A, Group 1 ISM Equipment
This device is classified IPX0 for water
Input 120 Vac, 60 Hz, 5.1A

Contact Us

Customer Service:

Rubbermaid Medical Solutions
16905 Northcross Drive, Suite 120
Huntersville, NC 28078
Phone: 1-888-859-8294
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customer.service@rubbermaidmedical.com
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