



INSTRUCTION MANUAL



Wall Cabinets Installation and Maintenance



Read and understand all of the instructions and safety information in this manual before operating this product.

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DESCRIPTION OF PRODUCT

This manual covers all models of stainless steel Wall Cabinets.

PURPOSE OF THIS MANUAL

This manual provides the user with installation and maintenance instructions for stainless steel Wall Cabinets.

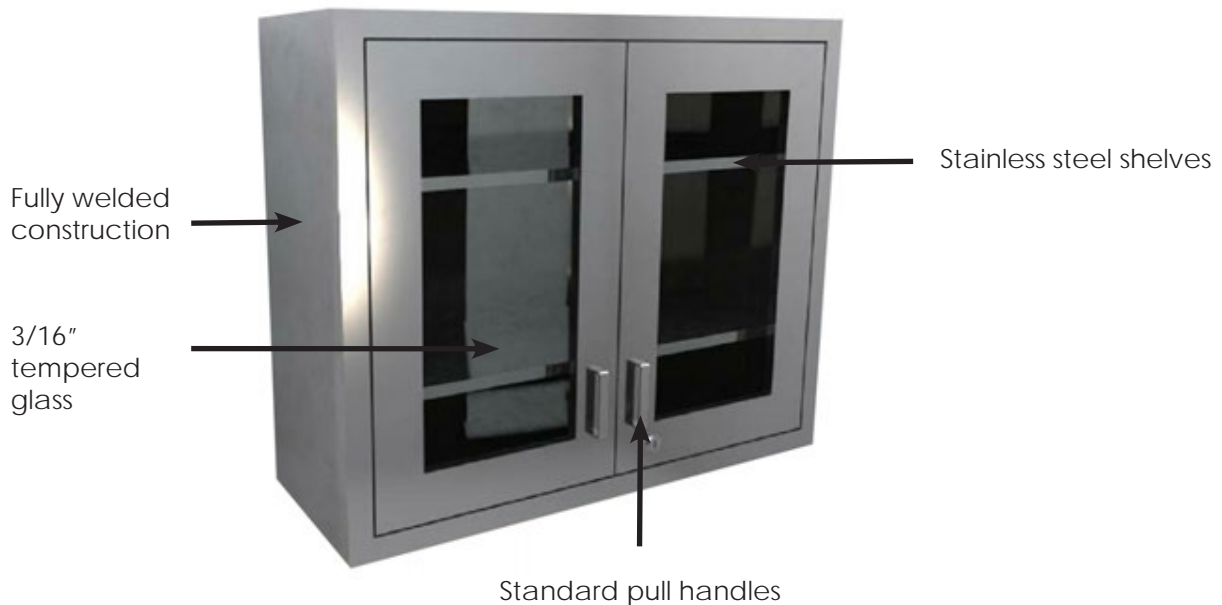
This manual also contains a description of the standard features and general specifications of the Wall Cabinets.

KEEP THIS MANUAL

STANDARD FEATURES - WALL CABINETS

Wall Cabinets come Standard with:

- Fully Welded Construction
- Type 300 series stainless steel
- Stainless steel shelves
- 4" standard pull handles (excludes sliding glass doors)
- 3/16" tempered glass on glass door models
- Magnetic door catch with quiet close
- Seamless front face



Pictured above - Dual Glass Door model (MWC-A4-3630)

Optional features for Wall Cabinets:

- Cam locks
- CuVerro® Bactericidal Copper 4" Pull Handles
- Tee handles
- Tee handles with key lock
- Electronic keypad door locks
- Right or left hinge
- Pegboard back
- Sloped top

GENERAL SPECIFICATIONS

Depths: 13"

Widths: 18" / 24" / 30" / 36" / 42" / 48"

Heights: 18" / 24" / 30" / 36" / 48"

Shelves: 1 - 3

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UNPACKING AND INSPECTION INSTRUCTIONS



CAUTION: The Wall Cabinet is heavy and it is recommended that at least two people assist with the unpacking.

Inspection

1. Receiving area must meet all State and Local regulations prior to unpacking.
2. Customer must inspect skid and Cabinet both before and after unpacking to determine if any items were damaged during shipping. If the skid or Cabinet appear damaged in any way, contact the shipping company immediately. Save all damaged packing material.
3. All damaged items must be listed on the Bill of Lading.
4. Customer is responsible for the proper disposal of all packing materials. The disposal of these items must meet all State and Local regulations.

Unpacking the Wall Cabinet

Stainless steel Wall Cabinets are shipped on well-constructed wooden skids. Steel bands secure the cabinet to the skid. The stainless steel surfaces of the part are protected by layers of plastic wrapping, and the corners are protected by heavy cardboard.

IMPORTANT: Wear gloves and eyewear during the unpacking operation.



Caution! Do not use a box cutter or any other cutting utensil to remove the plastic wrapping around the cabinet. These items can scratch the protective coating on the stainless steel, allowing the surface to rust.

1. Use tin snips to cut the metal bands holding the box to the wooden skid.
2. Remove the cardboard corner protectors.
3. Remove the plastic protective wrapping.

Carefully inspect the Wall Cabinet while unpacking. If it appears damaged or defective in any way, call your MAC Medical representative.

Retain all shipping materials until the cabinet is completely unpacked and inspected for damage.

INSTALLATION REQUIREMENTS

The following instructions should be followed during the installation of a Wall Cabinet

- Check all local building codes prior to installation of the Wall Cabinet.
- Do not lift the cabinets by their handles in order to avoid damaging the cabinets.
- To prevent cabinet damage, do not overtighten the mounting hardware.
- Cabinets must be installed square to ensure proper door functionality.
- Only transport the Cabinet when empty. Properly secure while being transported.



Caution! The Cabinet and its components are heavy. It is recommended that at least two people assist in the installation of the unit(s).

INSTALLING AN OPTIONAL SLOPED TOP

If the cabinet is purchased with the optional Sloped Top, it will be necessary to attach the sloped top to the cabinet before mounting in the chosen location.

1. With the Doors and Shelves removed, carefully lower the sloped top onto the top of the cabinet (Fig. 1).
2. From within the cabinet, attach the cabinet and sloped top using the four 1/4" bolts and washers (provided). Place the washers over the bolts and insert them into the four holes in the top of the cabinet and screw them into the sloped top (Fig. 2).



Fig. 1: Lower Sloped Top onto Cabinet

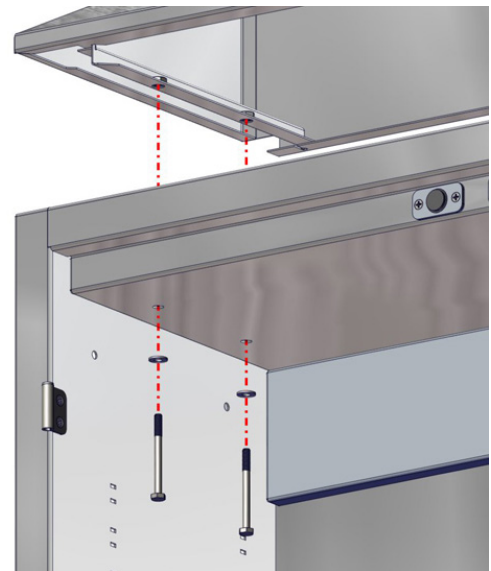


Fig. 2: Attach Sloped Top to Cabinet

INSTALLATION INSTRUCTIONS

Mounting the Wall Cabinet

This instruction applies to all Wall Cabinets (Fig. 3). (Note: unit may vary in appearance from the unit shown in these illustrations).

A Mounting Bracket is supplied with all wall cabinets. Mounting Hardware must be provided by the user.

1. The diagram in Figure 4 provides measurements to assist in determining the proper placement of the mounting bracket and cabinet in their desired location.
2. The cabinet doors may be removed for ease of installation. Open the doors fully and lift them off their hinges. The pin on the hinge of the door will slide out of the barrel of the hinge on the cabinet (Figs. 5 and 6).



Fig. 3: Wall Cabinet

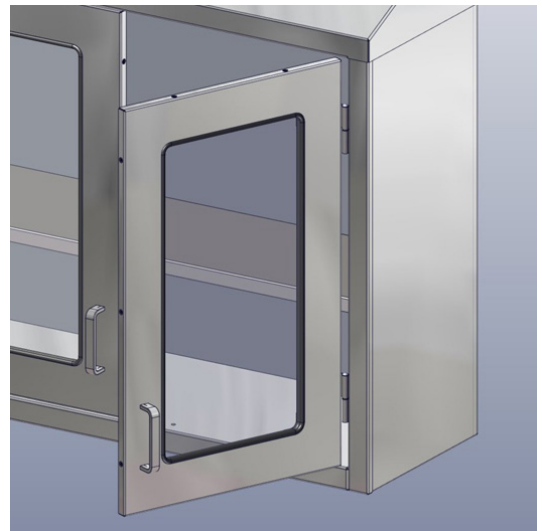


Fig. 5: Open Door

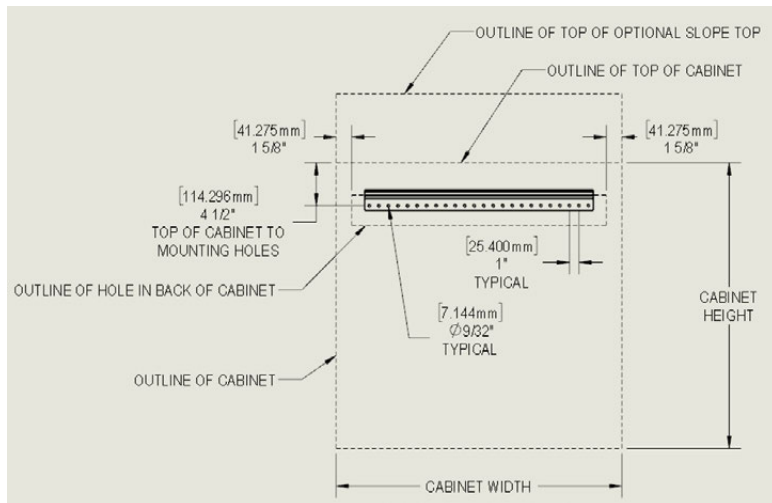


Fig. 4: Cabinet Mounting Details

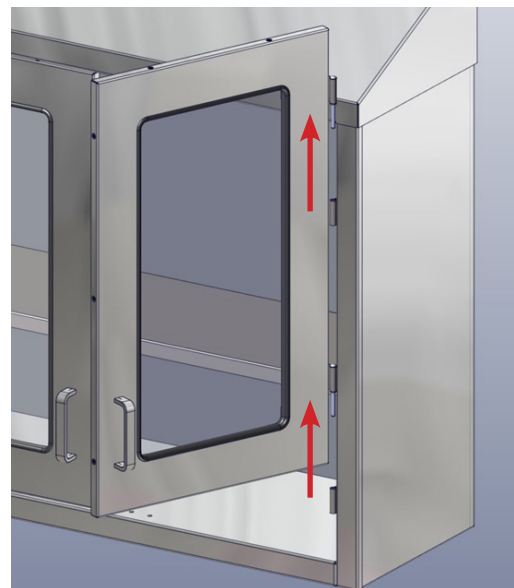


Fig. 6: Remove Doors

3. Fasten the Mounting Bracket into the wall supports with a high-strength, long fastener capable of supporting the cabinet (Fig. 7).
4. After the Mounting Bracket is secured onto the wall, lift the wall cabinet and fit the back onto the wall-secured Mounting Bracket (Figs. 8 and 9)
5. If additional support for the cabinet is needed, holes may be drilled in the back of the cabinet where desired, and long fasteners used to secure the cabinet to the structure.
6. Install shelving per the instructions on page 11.
7. If the doors were removed they may now be reinstalled by aligning the hinges and gently lowering the door into the hinges. The pin of the hinge on the door will insert into the barrel of the hinge on the cabinet.

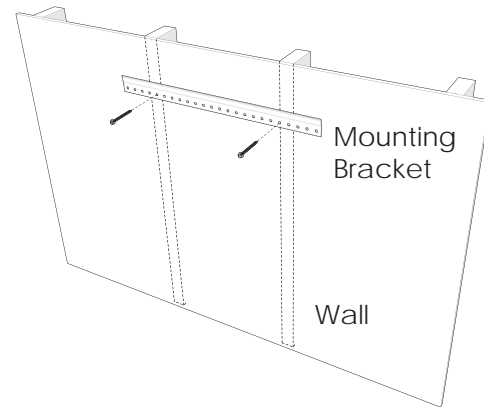


Fig. 7: Bracket Mounted to Wall Supports



Fig. 8: Mount Cabinet on Wall

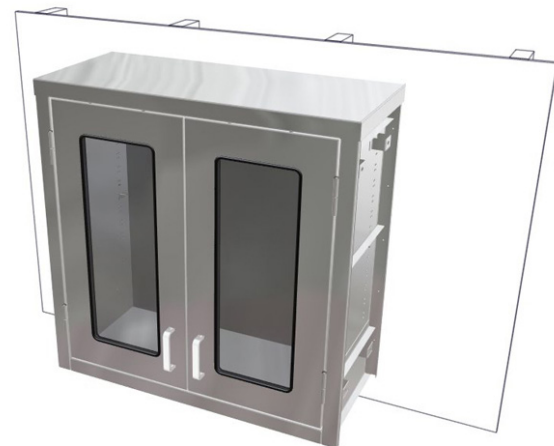


Fig. 9: Wall Cabinet Installed

ASSEMBLY INSTRUCTIONS - BANKED CABINETS

Cabinets intended to be Banked will ship without side panels on the sides where they are to be joined.

NOTE: Although two High Cabinets are being used to illustrate this operation, the banking instructions apply to banking Wall Cabinets as well (Fig. 10).

1. Make sure that the cabinet is empty and shelves are removed before installing the banked cabinets. Remove the doors prior to this operation (see Fig. 3, page 7).
2. Place the first cabinet in its desired location.
4. Locate the five connection points on the sides of each cabinet. Three connections toward the front, and two in the rear (Fig. 11).
5. Place two Connection Spacers on the connection points at the rear of the cabinet, one on the top and one on the bottom (Fig. 12).
6. Place the next cabinet beside the first cabinet, and align the cabinet faces.
7. From the inside of one of the cabinets, insert the 1/4" bolt and one washer through one of the top rear connection holes until it protrudes from the other cabinet. Secure with the washer and acorn nut. Repeat with the bottom rear connection hole (Fig. 12).



Fig. 10: Two cabinets to be banked

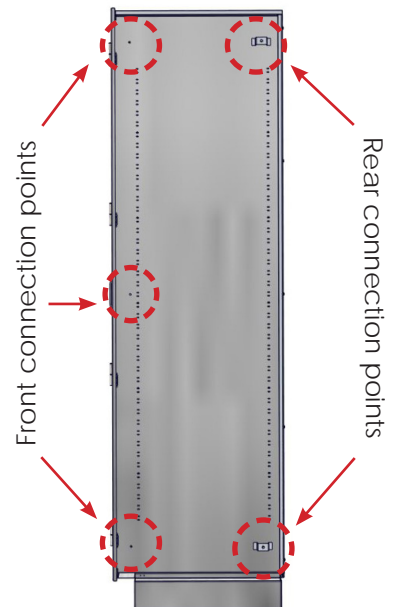


Fig. 11: Connection Points

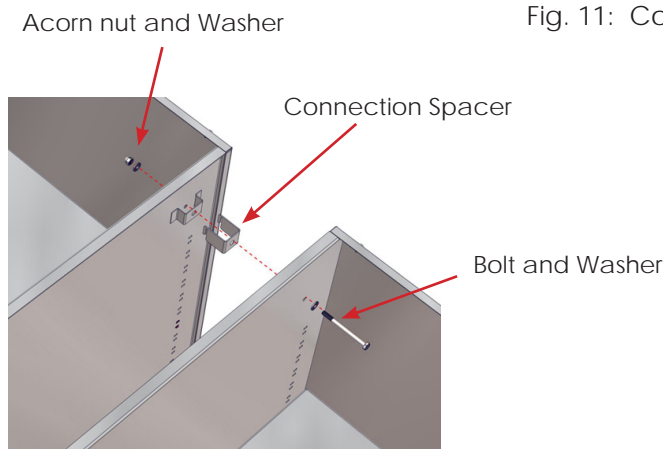


Fig. 12: Attaching the Banked Cabinets/Rear Connections

ASSEMBLY INSTRUCTIONS - BANKED CABINETS (cont.)

8. Insert a 1/4" bolt and one washer through one of the top front connection holes until it protrudes from the other cabinet. Secure with the washer and acorn nut. Repeat with the center front and bottom front connection holes (Fig. 13).
9. To further secure the cabinet, holes may be drilled in the back of the cabinet and installer-provided hardware used to secure the cabinet to the wall.
9. Install any shelves and replace the doors.

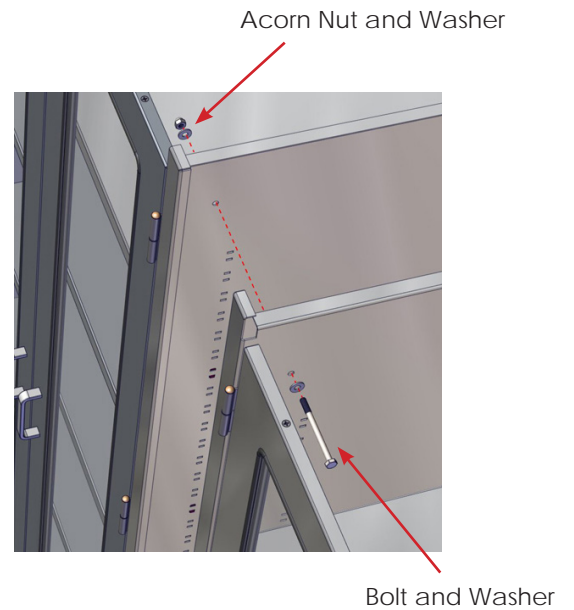


Fig. 13: Attaching Banked Cabinets/Front Connections

SHELF INSTALLATION

1. Install the four shelf support clips (four per shelf) (Fig. 14) into the desired location by inserting the top tab into the upper wall slot of that position (Fig. 15). Push up slightly on the inserted top tab and push the bottom half of the clip in until the bottom tab snaps into the lower slot.
2. Count the mounting locations at each corner of the chamber to be sure that the shelf will be level and install the remaining support clips.
3. Install the shelf with the notches on the bottom of the shelf aligned with the shelf supports (Fig. 16).
4. Pull outward on the shelf to ensure it is locked properly on the supports.
5. If the doors were removed prior to cabinet mounting, they may now be reinstated by aligning the hinges and gently lowering the door into the hinges. The pin of the hinge on the door will insert into the barrel of the hinge on the cabinet.



Fig. 14: Shelf Support Clip

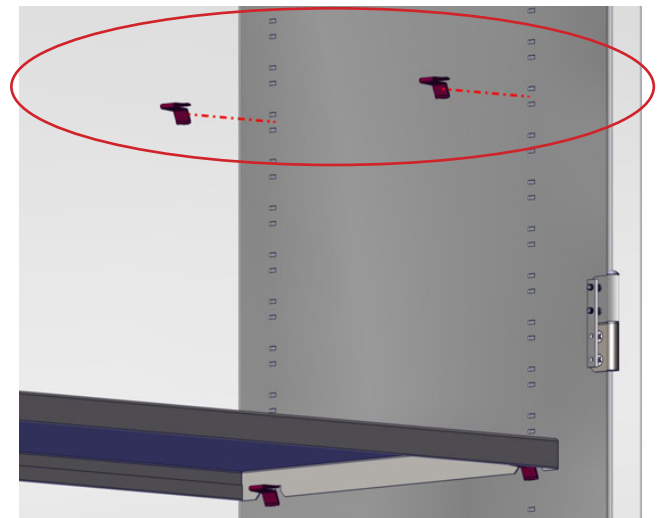


Fig. 15: Attach Support Clips

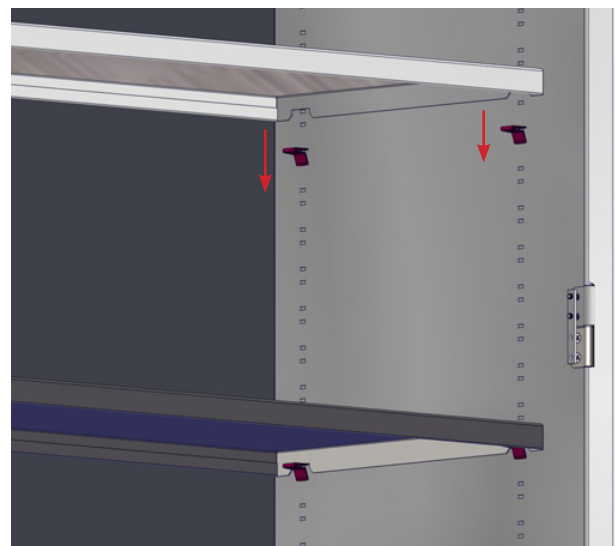


Fig. 16: Place Shelf on Support Clips

ADJUSTING SHELVES

1. Remove the cabinet doors if desired for ease of adjustment. Open the doors fully and lift them off of their hinges. The pin on the hinge of the door will slide out of the barrel of the hinge on the cabinet (Fig. 17).
2. Remove the shelf and determine its new position (Fig. 18).
3. Remove the four (four per shelf) shelf supports clips by tilting the clip upward and lifting out (Fig. 19).
4. Install the shelf support into the new location by inserting the top tab into the upper slot of the new position. Push up slightly on the inserted top tab and push the bottom half of the clip in until the bottom tab snaps into the lower slot.
5. Count the mounting locations at each corner of the chamber to be sure that the shelf will be level and install the remaining supports.
6. Reinstall the shelf with the notches on the bottom of the shelf aligned with the shelf supports.
7. Pull outward on the shelf to ensure it is locked properly on the supports.
8. If the doors were removed prior to shelf adjustment, they may now be reinstalled by aligning the hinges and gently lowering the door into the hinges. The pin of the hinge on the door will insert into the barrel of the hinge on the cabinet.

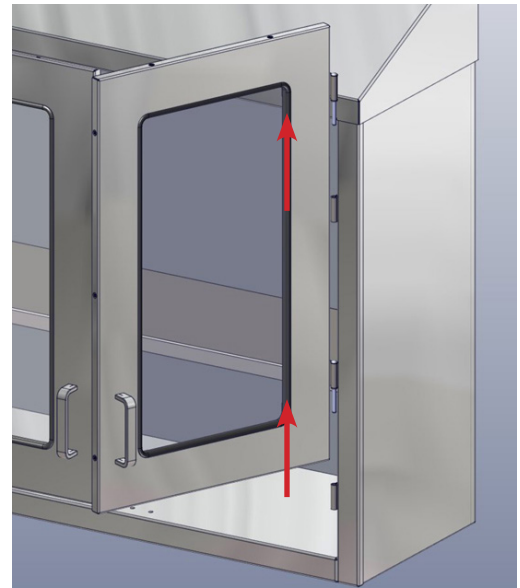


Fig. 17: Remove Doors

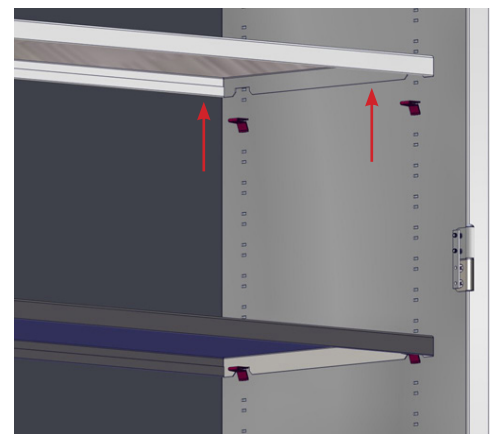


Fig. 18: Remove Shelf

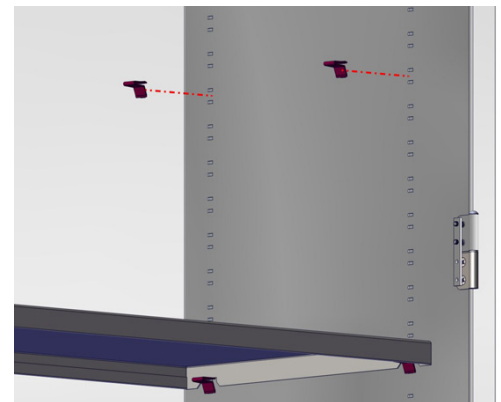


Fig 19: Remove Support Clips

DOOR HINGE ADJUSTMENT

If the door frames appear misaligned, it will be necessary to adjust the door hinges to ensure that the door frames align correctly.

1. Open one door fully and loosen the screws on the hinges that attach to the sides of the cabinet (two screws per hinge) (Fig. 20).
2. Move the door up or down (up to 1/4" in either direction) to align one door with the other (Fig. 21). Use a level to ensure the door frames align properly.
3. Tighten the hinge screws when desired alignment is achieved.

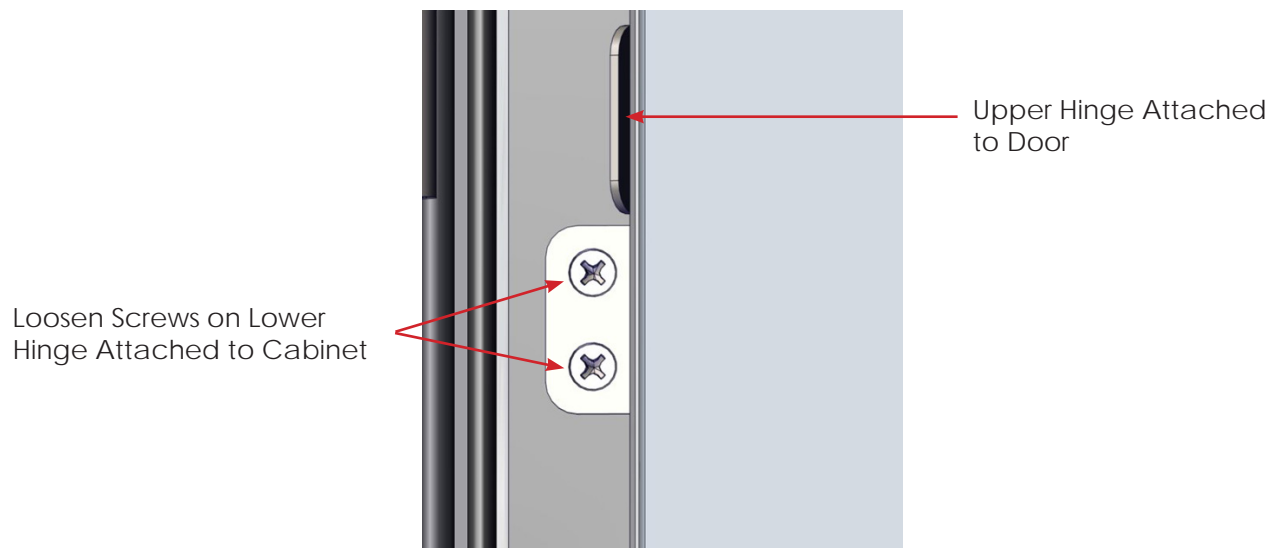


Fig. 20: Loosen Hinge Screws

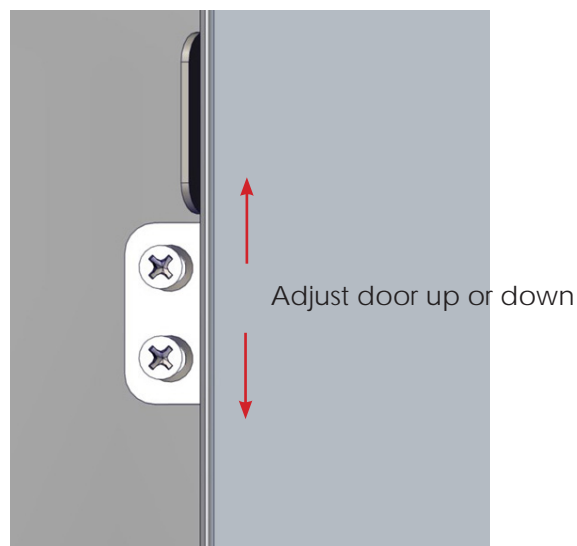


Fig. 21: Adjust Door Up or Down

ADJUSTING SLIDING GLASS DOORS

Cabinets with Sliding Glass Doors are shipped fully assembled and factory adjusted. However, it may be necessary for the user to make final adjustments at their facility.

Adjustments to the Sliding Glass Doors must be made at the inside top of each sliding door (Fig. 22, shown with rear panel of cabinet removed for clarity).

Each door has two slotted wheel plates that are attached to the inside of the sliding doors via three screws. The wheels roll inside a steel channel running along the top of the cabinet (Fig. 23).

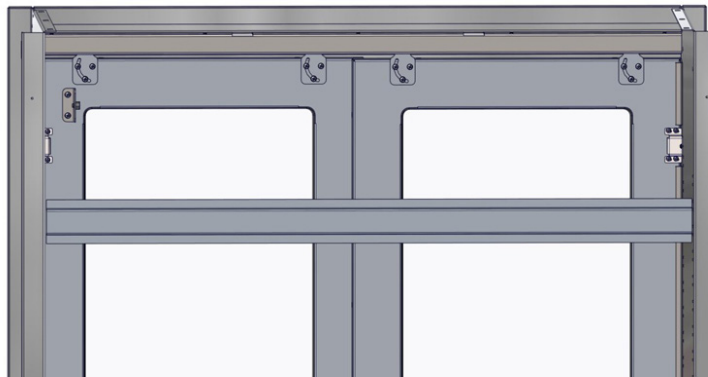


Fig. 22: Top Inside of Sliding Glass Doors

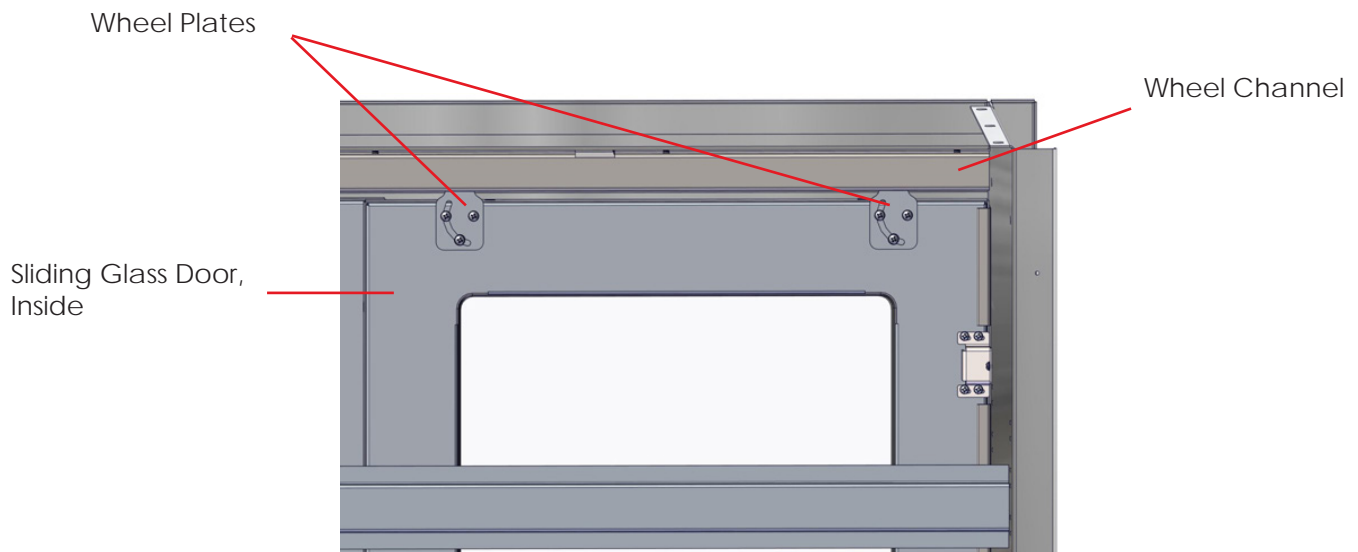


Fig. 23: Sliding Glass Door with Wheel Plates

ADJUSTING SLIDING GLASS DOORS (cont.)

1. Using a Phillips head screwdriver, slightly loosen the three screws holding the wheel plate to the sliding glass door (Fig. 24 with channel removed for clarity).
2. Carefully move the door back and forth along the adjustment slots in the wheel plate until the desired adjustment is achieved. Apply Red Loctite (Fig. 25) to the three screws.
3. Using a Phillips head screwdriver, tighten the three screws holding the wheel plate to the sliding glass door. Wipe off any excess Loctite with a clean, dry cloth.

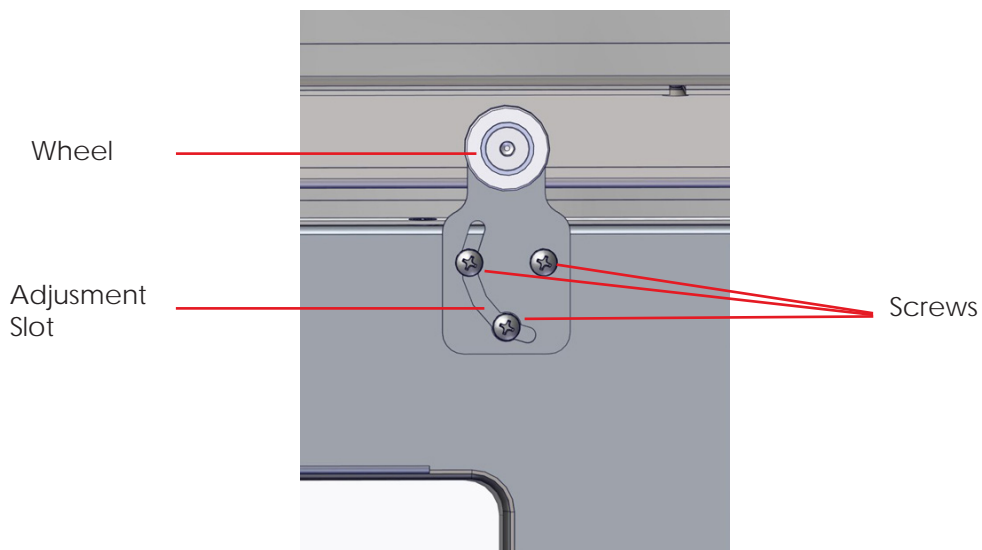


Fig: 24: Wheel Plate and Screw Details



Fig. 25: Red Loctite

OPTIONAL ELECTRONIC KEYPAD DOOR LOCK - PROGRAMMING AND OPERATION

Base Cabinets can be equipped with optional Electronic Locks. Following are instructions for the use of these locks.

The Electronic Lock

The Electronic Lock has a 10 button keypad and a “#” button (Fig. 26).

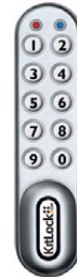


Fig. 26: Electronic Lock

The “#” button is hidden beneath the handle when in the Locked position (Fig. 27).

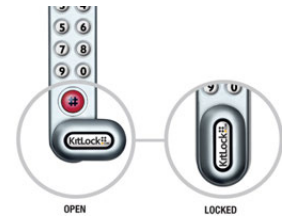


Fig. 27: Lock Open and Closed

There are two LED indicator buttons above the keypad that will flash to indicate the status of certain operations (Fig. 28).

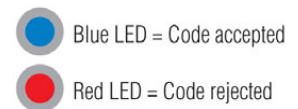


Fig. 28: LED Indicator Lights

Basic Information

The Electronic Lock is supplied with two factory set codes:

Master Code: 11335577

User Code: 2244

When the Cabinet is first received, immediately change the **Master Code** and **User Code**.

All **Master Code** and **Sub-Master Codes** are 8 digits long.

All **User Codes** are 4 digits long.

The Lock “open” time is set at four seconds.

Penalty Time - Entering three incorrect Codes will cause the Lock to shut down for 10 seconds.

OPTIONAL ELECTRONIC KEYPAD DOOR LOCK - PROGRAMMING AND OPERATION (cont.)

Functions

Before programming the lock, select the most appropriate function for the application:

- A) **Private use**
- B) **Public use**

A) **Private Use** (This is the default function and is already pre-programmed in new locks).

This is the most common function and is used where the same code will be repeatedly used.

B) **Public Use** (The user will enter their own personal 4-digit code).

This locks the lock. The same code is entered only once to open the lock before being erased and ready for the next new user.

This function is used for short-term, multi-occupancy applications (e.g. a locker in a leisure center).

Codes and Code Levels

The Electronic Lock has the following **Code Levels**:

1) **MASTER CODE**

The **Master Code** can:

- Open the Lock
- Change the Master Code
- Set/Change/ Delete the Sub-Master and User Code
- Select between Private and Public Functions
- Activate/Deactivate the Technician Code

2) **SUB-MASTER CODE**

The **Sub-Master Code** can:

- Open the Lock
- Change the Sub-Master
- Set/Change/Delete the User Code

3) **USER CODE**

The **User Code** can:

- Open the Lock
- Change the User Code

4) **TECHNICIAN CODE**

The **Technician Code** can:

- Open the Lock

NOTE: A Code cannot be programmed into more than one Level

OPTIONAL ELECTRONIC KEYPAD DOOR LOCK - PROGRAMMING AND OPERATION (cont.)

Programming

To Program the Lock the Lock must be in the Open position with the “#” button visible (Fig. 27).

Every program command must commence by pressing the “#” button, followed by either the **Master Code**, **Sub-Master Code**, or **User Code**.

1) MASTER CODE COMMANDS

Purpose: **Change the Master Code**

Command Format: #Master Code * 01 * New Master Code * New Master Code

Example: #11335577 * 01 * 12345678 * 12345678

Result: Master code changed to 12345678

Purpose: **Set or Change the User Code**

Command Format: #Master Code * 02 * User Code

Example: #11335577 * 02 * 9999

Result: New User Code is now 9999

Purpose: **Delete User Code**

Command Format: #Master Code * 03

Example: #11335577 * 03 *

Result: User Code is deleted

Purpose: **Set or Change the Sub-Master Code**

Command Format: #Master Code * 04 * Sub-Master Code * Sub-Master Code

Example: #11335577 * 04 * 87654321 * 87654321

Result: Sub-Master Code 87654321 is now operative

Purpose: **Delete the Sub-Master Code**

Command Format: #Master Code * 05 * 05

Example: #11335577 * 05 * 05

Result: Sub-Master Code is deleted

2) SUB-MASTER CODE COMMANDS

Purpose: **Change the Sub-Master Code**

Command Format: #Sub-Master Code * 06 * New Sub-Master Code * New Sub-Master Code

Example: #87654321 * 06 * 10101010 * 10101010

Result: Sub-Master Code has been changed to 10101010

Purpose: **Set or Change the User Code**

Command Format: #Sub-Master Code * 07 * User Code

Example: #87654321 * 07 * 6666

Result: New User Code is 6666

Purpose: **Delete the User Code**

Command Format: #Sub-Master Code * 08

Example: #87654321 * 08

Result: User Code is deleted

OPTIONAL ELECTRONIC KEYPAD DOOR LOCK - PROGRAMMING AND OPERATION (cont.)

3) USER COMMANDS

Purpose: **Change the User Code**

Command Format: #User Code * New User Code * New User Code

Example: #2244 * 6688 * 6688

Result: User Code is now 6688

4) SPECIAL MASTER CODE COMMANDS

Purpose: **Set A) Private Use**

Command Format: #Master Code * 26

Example: #11335577 * 26

Result: The Lock will revert back to default A) Private Use Function. Factory set User Code 2244 will now work repeatedly until reprogrammed.

Purpose: **Set B) Public Use - Single Code Entry (default)**

Command Format: #Master Code * 24

Example: #11335577 * 24

Result: The Lock will now remain open until the next user enters their own personal code into the Lock as follows:

Step 1: Enter 4 digit code* Close the door which will now be locked.

Step 2: Enter the same 4 digit code* The Lock will now open and remain opened until the next 4 digit code is entered.

Purpose: **Set B) Public Use - Double Code Entry**

Command Format: #Master Code * 22

Example: #11335577 * 22

Result: The Lock will now remain open until the next user enters their own personal code into the Lock as follows:

Step 1: Enter 4 digit code * Repeat 4 digit code* Close the door, which will now be locked.

Step 2: Enter the same 4 digit code * The Lock will now open and remain open until the next 4 digit code is entered as in Step 1.

NOTE: When locked in this mode, the **RED LED** will flash every 5 seconds to indicate the door is locked.

Purpose: **Set Technician Code**

Command Format: #Master Code * 99 * Technician Code * Technician Code

Example: #11335577 * 99 * 555555 * 555555

Result: The Lock is automatically set into **B) Public Use** Function and allows the programmed **Technician Code** to open the Lock without the entered single **User Code** being erased.

Note: If the Lock is opened with a **Master Code**, the **User Code** will be erased.

OPTIONAL ELECTRONIC KEYPAD DOOR LOCK - PROGRAMMING AND OPERATION (cont.)

Battery Life and Maintenance

The Electronic Lock should provide well in excess of 15,000 openings of 4 seconds each, from 2 x AAA 1.5v cells.

SPECIAL CODE COMMAND - BATTERY LEVEL CHECK

Purpose: **Checking Battery Power Level**

Command Format: #Master Code * 09

Example: #11335577 * 09

Result: Both **RED** and **BLUE** LEDs will flash to indicate current Battery Status (Fig. 29):

More than 80% charged	● ● ● ● ● ● ● ●
Between 50%-80% charge	● ● ● ● ● ●
Between 20%-50% charged	● ● ● ●
Less than 20% charged	● ●

Fig. 29: Battery Status

Low Battery Indicator - When the Battery Power is low the **RED LED** will flash three times before the **BLUE LED** lights, accepting the Code. Fit new batteries as soon as this happens. The lock will operate 100 times with a low battery (Fig. 30).



Fig. 30: Low Battery Lights

Replacing the Batteries

Fit new Batteries by opening the door and removing the Upper Fixing Bolt. Swing the Lock down over the edge of the door. Refit the Lock when done (Figs. 31 and 32)

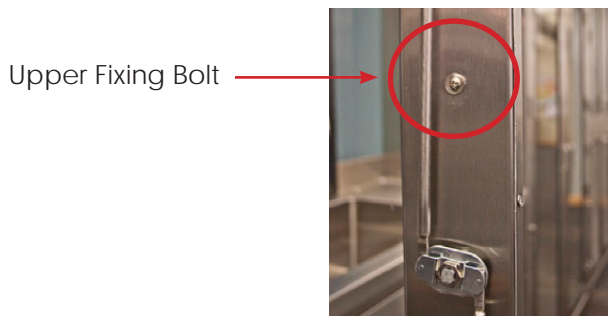


Fig. 31: Upper Fixing Bolt

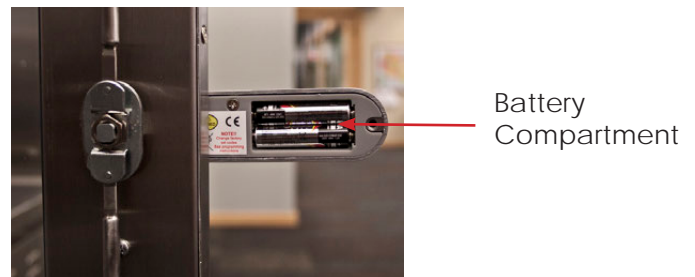


Fig. 32: Battery Compartment

OPTIONAL ELECTRONIC KEYPAD DOOR LOCK - PROGRAMMING AND OPERATION (cont.)

Battery Failure Override - The Electronic Lock has been designed so an external PP# battery can be placed against the contact points surrounding the Blue and Red LEDs so the lock can be opened to replace the batteries should they fail. The Procedure is as follows:

- 1) Place the contact points of the PP3 battery against the contact points surrounding the **BLUE** and **RED** LEDs, with the positive "+" PP3 terminal against the **RED** LED contact point and the negative "-" PP3 terminal against the **BLUE** LED.
- 2) Enter the **Master Code**.
- 3) The motor will withdraw the locking pin allowing the lock to be opened.
- 4) Fit new batteries by removing the upper fixing bolt and swinging the lock down over the edge of the door. Refit the lock when done (Figs. 31 and 32).

Lost Code Procedure

Note: This procedure requires to door to be open.

- 1) Remove the upper fixing bolt and swing the lock over the edge of the door to reveal the battery compartment (Figs. 31 and 32).
- 2) Remove one battery.
- 3) Press and hold the "1" button and replace the battery. The **BLUE LED** will flash twice. Release the "1" button. Within three seconds, press the "1" button three times. The **BLUE LED** will flash twice and the Lock will have reverted to the factory **Master Code** 11335577. All other stored settings will be erased.

CLEANING AND MAINTENANCE

Stainless steel cabinets must be cleaned on a regular basis to prevent any unnecessary damage to the stainless steel surfaces. Spilled liquids and standing water should be cleaned up immediately.

When cleaning stainless steel Wall Cabinets, make sure to use the proper, approved cleaning agents and cleaning materials to protect the surface and prevent damage or corrosion.

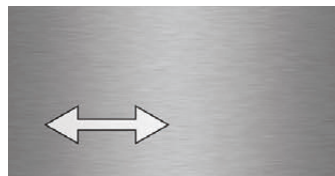
CAUTION: DO NOT USE these Cleaning Materials	CAUTION: DO NOT USE these Cleaning Agents
Abrasive Pads	Hard Water (water with a pH reading above 7.0)
Scrapers (metal or plastic)	Hydrochloric Acid
Steel Wool	Steam or high pressure water
Wire Brushes	Bleach or any compounds containing chlorine or Sodium hypochlorate, or ammonium chloride salts

Approved cleaning materials and agents		
Soft, clean lint-free cloth	Non-abrasive cleaning pads	Soft bristle brush
Mild detergents	Sodium Bicarbonate (baking soda)	Distilled water (pH rating 7) alone or with a mild detergent
White vinegar (in a spray bottle)	Isopropyl Alcohol	Hospital-grade non-bleach disinfectants
Cleaners approved for use on stainless steel		

Always follow the manufacturer's instructions for proper use of these products.

Cleaning Stainless Steel Surfaces:

- Using a damp, lint-free cloth and approved cleaner, wipe down the entire exterior surface of the stainless steel Wall Cabinet. Using a damp, lint-free cloth with distilled water and a mild detergent, wipe down the entire exterior surface of the stainless steel Wall Cabinet.
- Clean the Wall Cabinet with the stainless steel surface grain as shown here:



Cleaning Glass Doors:

Use a commercially prepared ammonia-free glass disinfectant cleaner applied with a lint-free cloth.

Limited Lifetime Warranty

MAC Medical warrants to the original purchaser that its Proprietary Products will be free from defects in workmanship or materials under normal use and service for the life of the product, so long as owned by the original purchaser, according to the limitations set forth below.

Defective products shall be repaired or replaced at MAC Medical's option at no cost to the original purchaser provided:

1. The customer must obtain a written return authorization supplied by MAC Medical's customer service department. The product must be returned, properly packaged, with a copy of the original sales receipt and copy of the RMA authorization. Please call (877) 828-9975 or (618) 476-3550 to receive a return authorization.
2. The customer must pre-pay freight charges to and from MAC Medical and must ship merchandise properly packaged, in a way the product will not be damaged during transit to the factory. MAC Medical does not warranty any freight damage to or from the factory. It is the customer's responsibility to inspect the product for packaging damage before signing the BOL.

This warranty does not apply to products, which have been subject to abuse, misuse, accident, modification, alteration, tampering, negligence, lack of routine maintenance or misapplication; or products that have been repaired by other than MAC Medical or its authorized representatives.

This warranty does not apply to glass, fabrics, vinyl, seat coverings, cushions, padding or their stitching, gluing or installation. Component parts not manufactured by MAC Medical, such as casters, caster inserts, any components made from rubber or plastic, circuit boards, fan heaters, plumbing parts, electrical switches and other components are also excluded. For these component parts, MAC Medical will pass on the original manufacturer's warranty to MAC Medical equipment original purchasers. Please consult factory for questions regarding the warranties of these component parts. This warranty does not apply to custom fabricated products. Consult factory.

UNLESS EXPRESSLY SET FORTH IN THIS WARRANTY, THERE ARE NO OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, OF FITNESS AND/OR MERCHANTABILITY OR ANY OTHER WARRANTY IMPLIED BY CUSTOM, USAGE OR COURSE OF DEALING.

Liability of MAC Medical under this warranty is limited to the repair and/or replacement of any products. MAC Medical specifically excludes and disclaims any responsibility for any incidental or consequential damages claimed to have arisen from any defect in workmanship or materials. No representative has any authority to change or enlarge the above warranty or MAC Medical liability. This document supersedes all previous warranty provisions.

To place an order, contact our customer service department at **618-476-3550** or **877-828-9975** or by email at sales@macmedical.com

MADE IN THE USA



INSPIRED
TO BE BETTER

Customer needs are our first priority.

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