VAULT MIRROR SECRET DOOR
Installation & Service Manual

REVISION 2 – February 2026

contact@hiddendoorstore.com

Service Line: 480-899-1584

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Section 1. Introduction

This guide aims to provide clear, step-by-step instructions for installing your new secret door. For assistance with any issues or questions during installation, please contact our support team. We're committed to ensuring your successful installation.

Reading this guide completely before you start is critical. Each task or step builds on the previous one in a specific sequence. Skipping sections or performing steps out of sequence may cause problems that are difficult to correct later. Please take the time to understand all instructions before beginning the installation process

NOTE: The illustrations in this guide show a left-hinged configuration. If your door is a right-hinged configuration the illustrations would be a mirror image.

Section 2. Required Tools

- Laser level
- Drill
- Impact Driver
- #2 Phillips Bit
- #3 Phillips Bit
- T25 Torx Bit
- T30 Torx Bit
- Wood or composite shims
- 2x4 blocks (approximately 12” lengths)

Section 3. Pre-installation Tasks

3.1: Open the crate and inspect the door.

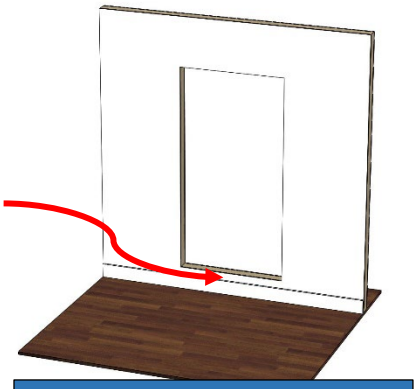
1. Open the crate if you haven't done so already.
    - Remove all screws that hold the lid and short ends of the crate in place using a #2 phillips bit.
    - Remove any foam or blocking surrounding the door.
    - Do not discard any crating materials until the door is fully installed and functional.
2. Inspect the contents.
    - Look for damage to crate or obvious damage to the door components.
    - Do not remove the shrink-wrap until instructed.
3. Next steps.
    - If no damage is found: Continue installation.
    - If damage is found: Pause installation and contact our support team immediately.

Secret doors require more precise openings than regular doors. Your door was fully installed and tested in a fixture that mimics your installation environment before shipping. This pre-testing ensures the door will function perfectly in your space, but only if your wall opening meets our specifications. It is essential to address any wall opening issues before proceeding with installation, as failing to do so may cause problems with door concealment or operation.

3.2: Verify the wall opening is sized correctly.

1. The wall opening for this door must be 32" wide and 72" tall.
2. The width and height of your prepared opening should not differ by more than 1/4" from the defined size at any point along the width or height. Measure in multiple locations.

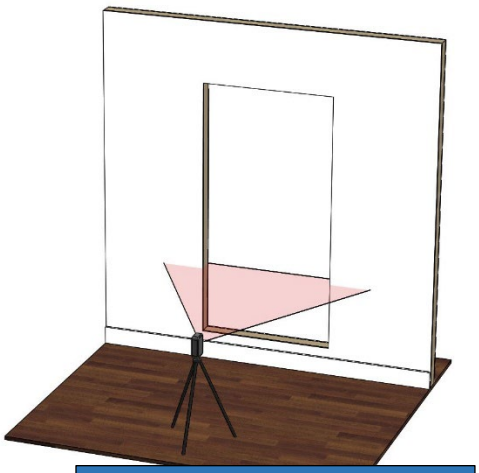
3. Openings wider than ordered may require additional shimming, gap filling, and finish trim work.
4. The threshold of the opening must be at least 4” above the top of the base molding. This creates a natural wall hanging mirror appearance.
5. Due to the weight of this product, especially when ordered with bullet resistant armor, it is recommended that the framing on the left and right side of the opening be double studs.



4” gap between top of base molding and bottom of threshold.

3.3: Verify the wall opening is plumb and level.

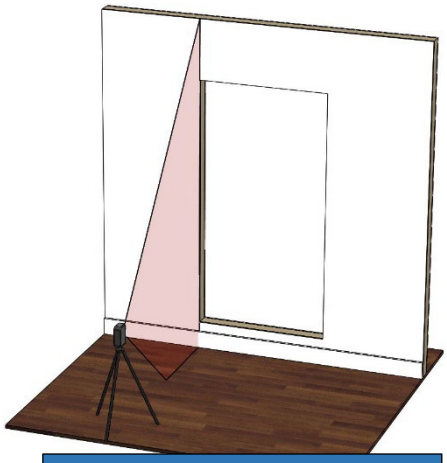
1. Set up your laser level
    - Place it on a stable surface at least 2 feet tall.
    - Position it 5-6 feet away from the opening.
    - Turn it on and let it self-level.
2. Check if the opening is level
    - Project the horizontal laser line across the opening.
    - Place a measuring tape vertically between the laser line and the floor.
    - Measure at the left side and right side of the opening.
    - The distance should be the same for both sides.
    - Maximum allowable deviation is 1/8".



Laser position for checking horizontal

- If the threshold of the opening is not level you will need to shim under the door frame during installation to compensate.

3. Check if the opening is plumb left to right
    - Project the vertical laser line along each side of the opening.
    - Measure the gap between the laser line and the edge of the opening.
    - The distance should be the same from top to bottom.
    - Maximum allowable deviation is 1/4".



Laser position for checking vertical. Check both sides of the opening.

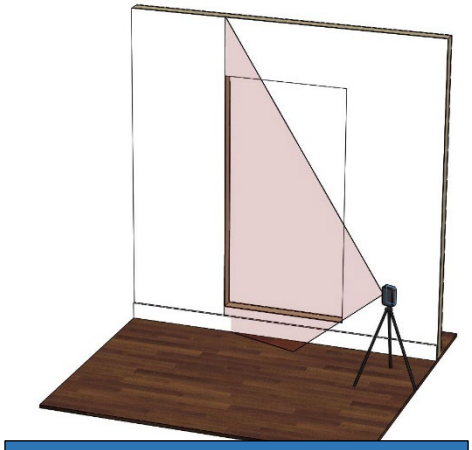
4. Check all corners
    - A perfectly square opening will have 90° corners.
    - If the corner angles are not close to 90 degrees, repeat the earlier measurement steps to find the problem.

Secret doors must be installed on a flat wall surface. If your wall or opening isn't flat, gaps will be visible between the door face and wall. The door cannot be twisted to match a warped wall or have trim applied to conceal the issue. Fix any uneven areas before continuing installation.

3.4: Verify the wall around the opening is flat.

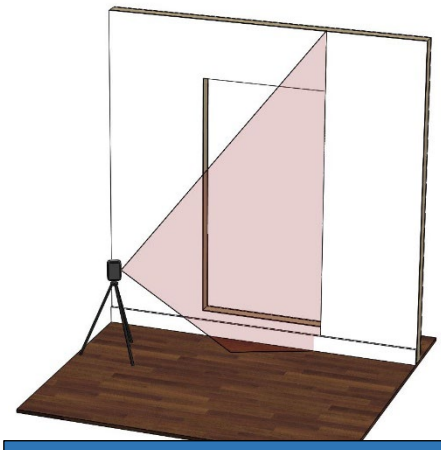
1. Check if the opening is plumb front to back on left side.
    - Aim the laser at the left side of the rough opening.
    - The laser should be oriented so that the beam is at an acute angle to the wall.

2. Compare left side of opening to laser line.
    - Determine if the wall is perfectly vertical, leaning forward, or leaning back.
    - The opening should be plumb to within 1/4”. Write this number down.
    - Note any bellies or humps. Mark them with painter’s tape.



Checking left side of opening front to back

3. Check if the opening is plumb front to back on right side.
    - Aim the laser at the right side of the rough opening.
    - The laser should be oriented so that the beam is at an acute angle to the wall.



Checking right side of opening front to back

4. Compare right side of opening to laser line.
    - Determine if the wall is perfectly vertical, leaning forward, or leaning back.
    - The opening should be plumb to within 1/4". Write this number down.
    - Note any bellies or humps. Mark them with painter's tape.

5. Compare the measurements taken in steps 2 and 4.
    - If both sides of the opening are perfectly vertical or lean in the same direction and the same amount proceed to the next step.
    - If the two sides do not lean in the same direction by more than 1/8" difference in the two measurements, the wall around the opening is not flat.
    - If not flat, the opening will need to be adjusted through drywall work or adjusting the framing.

6. Correct any humps or bellies
    - If you marked humps or bellies in previous steps, they should be corrected.
    - Proceeding without fixing humps or bellies in the wall will cause gaps between the door and wall that will negatively impact the concealment.

3.5: Verify Wall Outlet Availability and Location

Your door requires a standard 110V AC outlet inside the secret room. Install the outlet on the interior wall of the secret room, within 15 feet of the door opening.

Section 4. Moving the Door

This door system is made of heavy gauge steel. While the door, frame, and decorative face frame have been fully installed and tested together prior to shipping, they have been separated to make handling during installation easier. We recommend the following while moving the door components:

4.1: Plan the best route

1. Consider additional space required to turn corners.
2. Consider space needed for people or carts.
3. If you decide to use carts or furniture dollies make sure you have adequate flooring protection.
4. Four people are required to move most doors (one at each corner).

4.2: General moving guidelines

1. Do not unwrap the parts until after they have been moved. The shrink wrap helps protect the finish.
2. If moving the door on carts always make sure you have adequate people to keep the door stable while moving.

4.3: Positioning parts for installation

1. Lay the parts face down a few feet in front of the opening. You can move the parts in one by one in this order: frame (installed first), door panel (installed second), decorative frame (installed third).
2. Carefully remove the shrink wrap. Take care when using a knife as it may cut beyond the wrap and into the part.
3. Make sure the area under the parts is free of foreign objects that could scratch them. Laying the parts down on a blanket or similar is best practice.

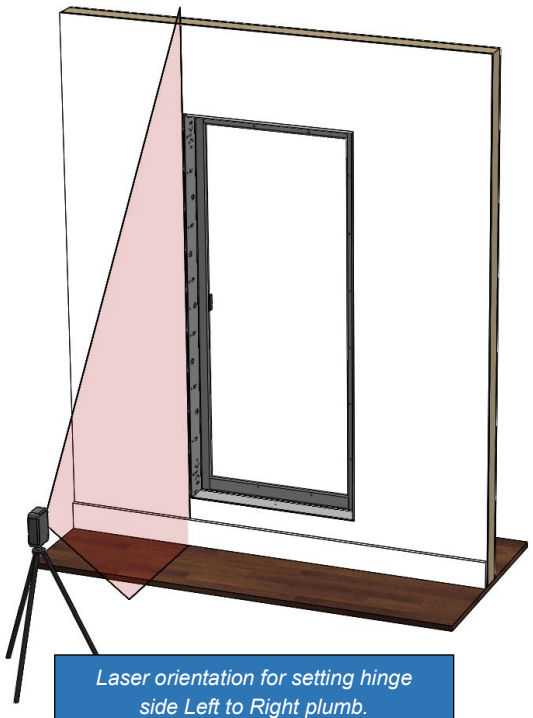
Section 5. Mounting the Door Frame

5.1: Moving door into wall opening

1. Protect flooring if necessary.
2. Identify which side of the door frame is the hinge side and orient the frame correctly. The hinge side of the frame has fixed locking pins protruding from the sidewall.
3. Move frame into opening
    - Push the door frame into the opening until the forward-facing edge of the frame is flush with the surrounding wall.

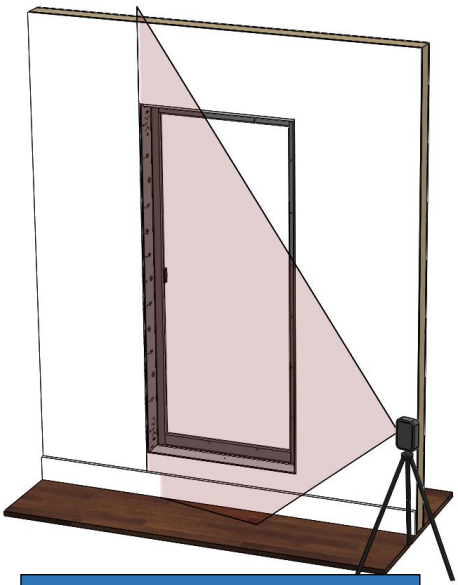
5.2: Setting the Hinge Side of the Frame Plumb

1. Set up the laser level
    - Place it on a stable surface.
    - Position it 5-6 feet from the door frame.
    - Turn it on and let it self-level.
2. Project the vertical laser line
    - Aim the laser at the hinge side of the door frame.
    - Make sure the line covers the full height of the frame.
    - The laser should be roughly square to the wall.
3. Check the alignment left to right
    - Look at the gap between the laser line and frame in the left/right direction
    - The gap must be the same from top to bottom



Laser orientation for setting hinge side Left to Right plumb.

4. Adjust the frame
    - If the gap varies, move the hinge side of the frame left/right using shims
    - Move the frame until it aligns with the laser line.
    - Ideally, the frame should be centered in the rough opening. Biasing it completely in one direction or another could cause the face frame not to cover the edge of the rough opening depending on your wall conditions. This is especially true if your rough opening is oversized.
    - Place shims directly behind the mounting holes in the frame whenever possible.
5. Verify plumbness in left to right direction
    - Recheck the gap between laser line and frame.
    - Confirm it remains consistent from top to bottom.
6. Reorient laser to check front to back plumbness
    - Move the laser so that its shining on the frame from the side.
    - The laser should be oriented so that the beam is at an acute angle to the wall.



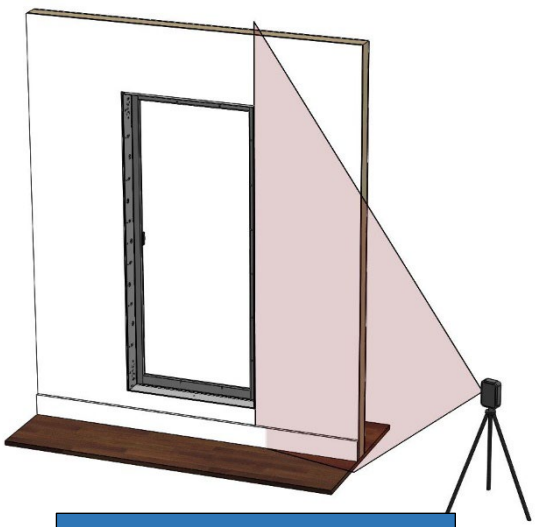
Laser orientation for setting hinge side Front to Back plumb.

7. Check the alignment front to back
    - Look at the gap between the laser line and frame in the front/back direction.
    - The gap must be the same from top to bottom.
    - The wall surface and door frame should be flush with each other.
8. Adjust the frame
    - If the gap varies, move the hinge side of the frame front to back.
    - Move the frame until it aligns with the laser line.
    - Prioritize keeping the frame as flush against the wall as possible.

9. Secure the frame
    - Once plumb, secure the hinge side of the frame.
    - Use included lag screws with washers through slot at top and bottom. Use a torx T30 bit.
    - Use just the top and bottom slots initially. The remaining screws should be used after the frame is completely secured at all four corners.
    - Do not fully tighten until the entire frame is square.

5.3: Setting the Non-Hinge Side of the Frame Plumb

1. Move laser level to non-hinge side
    - Place it on a stable surface.
    - Position it 5-6 feet from the door frame.
    - Turn it on and let it self-level.
2. Project the vertical laser line
    - Move the laser so that its shining on the non-hinge side of frame from the side
    - The laser should be oriented so that the beam is at an acute angle to the wall.
    - Make sure the line covers the full height of the frame.



Laser orientation for setting non-hinge side Front to Back plumb.

3. Check the front to back
    - Look at the gap between the laser line and frame in the front/back direction.
    - The gap must be the same from top to bottom.
    - The wall surface and door frame should be flush with each other.
4. Adjust the frame
    - If the gap varies, move the non-hinge side of the frame front to back.
    - Move the frame until it aligns with the laser line.

- Prioritize keeping the frame as flush against the wall as possible.

5. Verify plumbness in front to back direction
   - Recheck the gap between laser line and frame.
   - Confirm it remains consistent from top to bottom.
6. Secure the frame
   - Once plumb, secure the non-hinge side of the frame.
   - Use included lag screws with washers through slot at top and bottom. Use a torx T30 bit.
   - Install all remaining lag screws into the frame. There are a total of 9 screws on the hinge side of the frame and 6 on the non-hinge side.

Section 6. Mounting the Door Panel

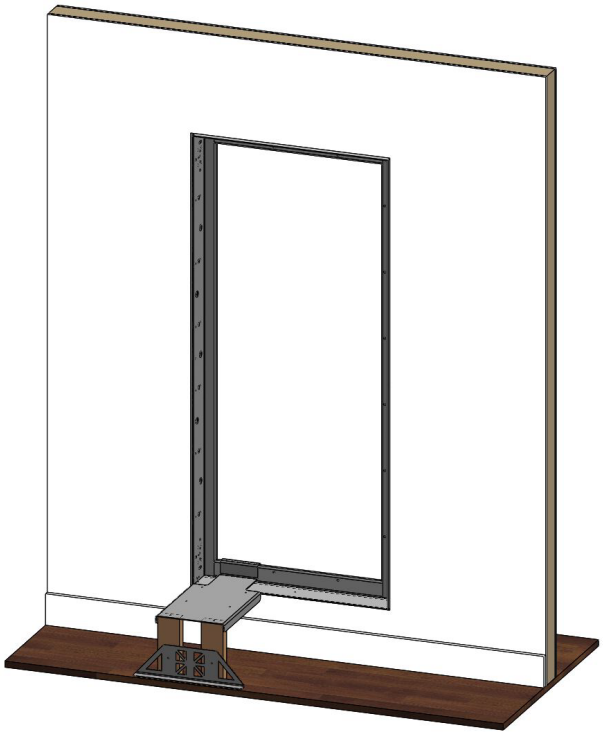
Having someone stay inside the secret room throughout installation is required. This person can open the door from inside if it accidentally closes and locks before installation is complete. Do not shut the door at any point in this process.

Included in the packaging are your chosen access switches, including key fobs and key cards.

DO NOT PUT THESE INSIDE THE SECRET ROOM DURING INSTALLATION.

6.1: Assemble the support platform

1. Protect flooring if necessary.
2. Place the support platform on the door frame, with the hooked bend wrapping the flange on the rear of the frame.
3. Level the platform and measure the distance from the underside of the platform to the floor.
4. Cut 2x4's to the length you just measured.
5. Attached the 2x4's to the platform using the screws included with the platform.
6. Join the two legs of the 2x4's at the floor using the gusset plate.

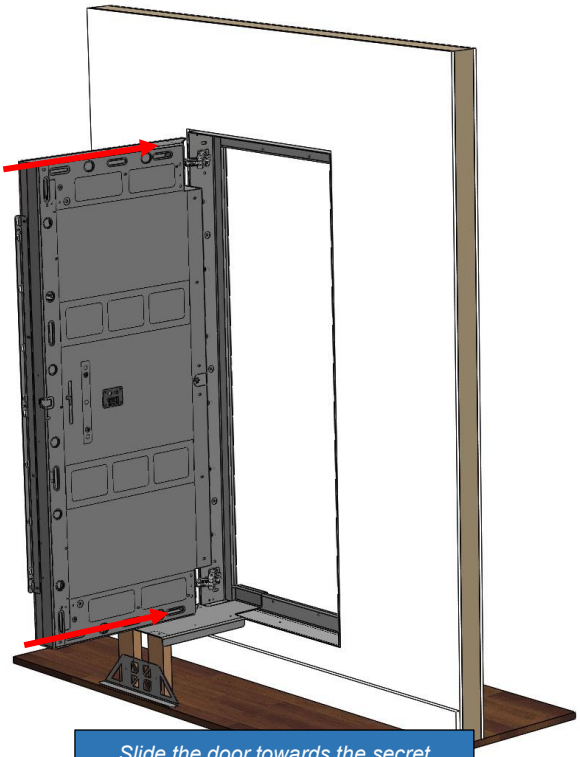


6.2: Position the door panel

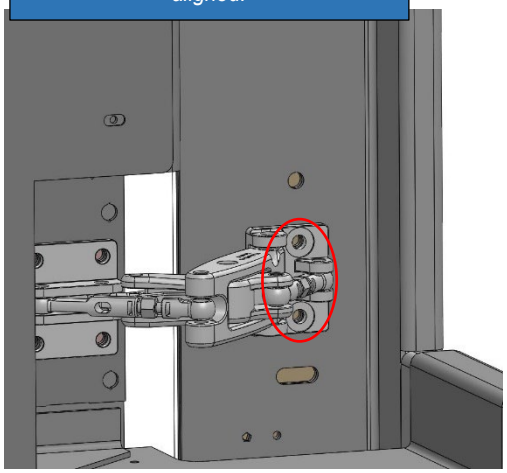
1. Protect flooring if necessary.
2. Identify which side of the door is the hinge side and orient it correctly. The hinges are pre-installed onto the body of the door panel.
3. Orient door to opening
    - Orient the door panel 90 degrees to the frame as if it were open.

6.3: Lift and position door panel

1. Lift the door panel on to the platform.
    - Carefully lift the door panel onto the support platform.
    - Take extra care when lifting due to the weight of the door panel.
2. Align hinges
    - Carefully slide the door inwards towards the secret room.
    - Position the hinge mounting bases over their attachment points on the door frame.
    - Secure the hinges to the frame using two #3 phillips machine screws at each hinge.



Slide the door towards the secret room until the hinge screws are aligned.



6.4: Remove the support platform

1. Disassemble the support platform.
    - Disassemble the platform in the reverse order of assembly.
    - You may need to slide the platform out from under the door. If so, be careful not to damage the painted finish on the door frame.

6.5: Recheck plumb and level

1. Now that weight has been added to the door frame, recheck plumb and level.
2. If the frame has moved at all, make corrections before proceeding.

Section 7. Attaching the mirror face frame

Do not fully shut the door at any point in this process.

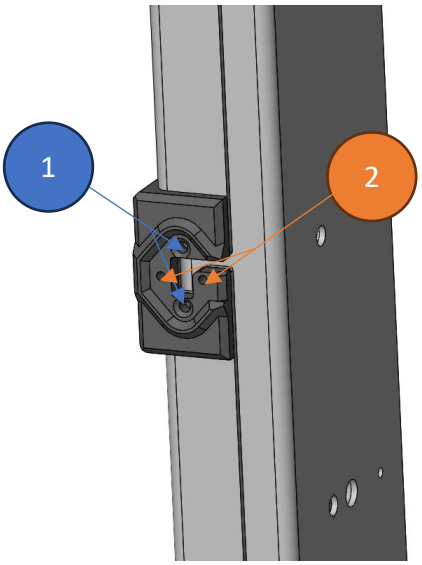
7.1: Mounting the mirror face frame

1. Tuck fingerprint scanner wire out of the way (if equipped)
    - Untape the small scanner wire at the top of the door panel
    - Re-tape it on top of the door to keep it out of the way during this step.
2. Mount face frame
    - Orient the face frame so that the cutout for the fingerprint scanner is at the top.
    - The face frame mounts with keyed slots.
    - Male pins are pre-mounted on the door panel
    - Slide frame over pins at keyed slot locations and then push downwards.
    - Pull slightly away from the door to ensure they pins are fully seated in the slots.
3. Attach fingerprint scanner (if equipped)
    - Attach the wire you moved in the previous step to the back of the fingerprint scanner module.
    - Use the two screws included with the scanner module to attach the scanner in the recess at the top of the face frame.

Section 8. Powering the door

Do not fully shut the door at any point in this process.

8.1: Attach power transfer cable



1. Locate the power transfer cable on the back / hinge side of the door panel.
    - #1.Mount the plastic bezel to the back side of the jamb frame at the shown locations.
    - #2.Mount the transfer cable housing to the plastic bezel at the shown locations.

8.2: Connect control box to AC outlet

1. Connect to AC power.
    - Use the included power cable to connect the control box to your wall outlet.

Section 9. Initial function testing

A person should remain inside the secret room during this section. DO NOT SHUT THE DOOR DURING THIS TESTING SECTION. If any part of this procedure does not go as outlined, DO NOT CONTINUE WITH THE INSTALLATION.

1. Test manual release system
    - Locate the manual / emergency release handle on the back of the door.
    - Remove the release pin by depressing the blue button.
    - Cycle the release handle in and out.
    - Observe that the locking rails move freely and to the positions shown in the provided illustrations.

LOCKED

UNLOCKED

2. Testing the egress button
    - Push the emergency release handle in and replace the pin.

- Press the egress button on the back of the door.
- Verify that the locking rails move to the unlocked position.

3. Testing the electronic latch
    - Press the latch closed with your finger.
    - There are two “levers” at the mouth of the latch that have to be pressed in at the same time for the latch to click into the locked position.
    - When the latch is locked the locking rails in the door should move to the locked position also.
    - Press the egress button and verify that the electronic latch releases and that the locking rails move to the unlocked position.
4. Testing the RFID scanner
    - Press the latch closed with your finger.
    - Verify the locking rails move to the locked position.
    - Locate the round colored sticker on the mirror face frame.
    - Swipe the blue RFID tag in front of this sticker and confirm the rails unlock and the latch releases.
5. Testing the keypad (if equipped)
    - Press the latch closed with your finger.
    - Verify the locking rails move to the locked position.
    - Type 2 4 6 8 * into the keypad.
    - Confirm the rails unlock and the latch releases.
6. Testing the fingerprint scanner (if equipped)
    - Press the latch closed with your finger.
    - Verify the locking rails move to the locked position.
    - Press a finger against the round scanner on top of the frame for ONE SECOND ONLY.
    - Confirm the rails unlock and the latch releases.

Section 10. Full function test

A person should remain inside the secret room during this section. DO NOT SHUT THE DOOR UNTIL INSTRUCTED.

1. Test egress button
    - Close the door with somebody on the inside.
    - Press the egress button.
    - Verify the door unlocks.
2. Test the RFID scanner
    - Close the door with somebody on the inside.
    - Have somebody on the outside wave an RFID tag over the colored sticker on the mirror face frame.
    - Additional RFID tags can be added. See Appendix C.1.1
3. Test the keypad
    - Close the door with somebody on the inside.
    - Have somebody on the outside type 2468* into the keypad.
    - Verify the door unlocks
    - The default keypad code can be changed. See Appendix A.1.2
4. Test the fingerprint scanner
    - Close the door with somebody on the inside.
    - Have somebody press a finger on the round scanner on top of the face frame for ONE SECOND ONLY.
    - Verify the door unlocks
    - Set an administrator and enroll users following instructions in Appendix B.1

Section 11. Emergency Egress

In the event of a system failure or mechanical problem that renders the door inoperable and a user is inside the secret room, the emergency release handle call be pulled. This will unlock the door and allow it to be opened from the inside. To operate, pull the release pin by pressing the blue button on the pin handle and remove it. Now the release handle can be cycled to unlock the door.

Leave the door open and call us for further instructions. Secure valuables or other restricted items in another location until the underlying issue is resolved.

Section 12. Emergency Ingress

In the event of a system failure or mechanical problem that prevents you gaining access to the secret room, contact us for detailed instructions on the emergency ingress procedure. For security purposes, this information is not published publicly.

A small wall power adapter is included with the door for part of this procedure. Keep it in a safe location but *NOT INSIDE THE SECRET ROOM.*

Section 13. Maintenance

Your secret door requires minimal maintenance. However, the following items should be checked at the noted intervals to ensure a long and trouble-free operation.

Maintenance Task	Frequency
Open and close the door by hand while listening for unusual noises (squeaks, groans, etc.).	Every 6 months
Open and close the door by hand while feeling for points of high friction or sticking during motion.	Every 6 months
Check clearance between the moving door and the surrounding stationary trims and frame.	Every 6 months
Verify all switches work as expected.	Every 6 months
Replace the SLA backup batteries. (See "Backup Battery Replacement" following this chart).	Every 36 months
For doors with wireless keypads: Replace the wireless switch batteries. Specific instructions on how to change batteries can be found in the Appendix under "*Wireless Products".*	Every 36 months

13.1: Backup Battery Replacement

1. Open the door. Do not close it again until instructed.
2. Unplug from the AC wall outlet.
3. Remove back panel from door
4. Locate the two SLA (sealed lead acid) batteries.
    - Identifiable as the two black "bricks" side by side in the control box.
5. Take a picture of the wire orientation to and between the batteries.
6. Remove the wire leads connected to the batteries.
7. Remove the batteries from the control box

8. Replace with new batteries.
    - Mount to the inside of the box in the same manner as the originals.
    - Replace only with 7.2Ah, 12v SLA batteries of the same dimensions.
9. Reattach the wire leads
10. Put back panel on
11. Plug into AC wall outlet
12. Test the door using the procedure found in Section 9.3
13. The door can be closed and returned to normal operation.

Appendix

A.) Wireless Products

A.1: Keypad

1. Replacing the 2 x AA batteries.
    - Remove the keypad from its host (book, artwork, backbox, etc.).
    - Flip the keypad housing over.
    - Locate the battery holder.
    - Gently pull the holder from the plastic housing.
    - Replace the batteries.
    - Place the battery holder back in the housing.
    - Put the keypad back in its host.
2. Changing the default code.
    - Press *1 (Both keys at the same time).
    - Press 1 2 3 4 * (One key at a time).
    - Press *2 (Both keys at the same time).
    - Press 2 # (One key at a time).
    - Enter new 4 digit code followed by *.
    - Enter new 4 digit code followed by * again.
    - Press *
    - Press #
    - Press *
    - Test your new code by entering the 4 digit code followed by *.

B.) Fingerprint Scanner

B.1: Fingerprint Scanner User Administration

1. Adding the administrator:

- Press and hold the desired administrator finger to the scanner for 5 seconds.
- Release finger when scanner turns yellow
- Press finger to scanner again until blue light appears and then release
- Repeat the pressing and releasing procedure (typically 4-6 times as the scanner records multiple images of the print) until the scanner turns green. *
- Wait 5 seconds and the system will automatically exit the administrator enrollment process.

  *If the scanner turns red instead, this means the administrator enrollment procedure failed. The light will begin to flash yellow. Start the process again from the beginning.

2. Adding a user:

   - Press and hold the administrator's finger to the scanner until the scanner flashes yellow and then solid pink. (Approx. 10 seconds).
   - Remove the administrator finger.
   - The pink light will begin to flash signaling the scanner is ready to enroll a new user.
   - Press user's finger to scanner until blue light appears and then release.
   - Repeat the pressing and releasing procedure (typically 4-6 times as the scanner records multiple images of the print) until the scanner turns green. *
   - Wait 5 seconds and the system will automatically exit the user enrollment process.

     *If the scanner turns red instead, this means the user enrollment procedure failed. The light will begin to flash pink. The new user can attempt to enroll again.

3. Full reset (deletes all users and administrators):

   - Press and hold the administrator's finger to the scanner until the scanner flashes yellow, pink, yellow, pink, white. (Approx. 25 seconds).
   - Remove the administrator finger.

- Press the administrator finger again and scanner will turn green for 3 seconds.
- Wait 5 seconds and the system will automatically exit the full reset process.
- Go to section 1 to enroll a new administrator.

C.) RFID Reader

C.1: RFID Tag Administration

1. Adding tags

    - You can use any RFID tag that uses a frequency of 13.56MHz. These are commonly available.
    - Open the door.
    - Scan the included keycard labeled “Add Card” over the scanner location and listen for an audible tone.
    - Swipe each new tag over the scanner location. Each successful tag addition will make an audible tone.
    - After you are finishing adding new tags, swipe the “Add Card” keycard over the scanner.