



Installation Manual

AUTOMATIC ROOF HATCH OPENER

INCLUDED PARTS (HARDWARE)



INCLUDED ELECTRONIC PARTS



REQUIRED TOOLS

- Center punch
- Drill
- Drill bits: 1/4" & 9/64"
- Wrench Set: 1/2" & 9/16"
- Socket set
- Hammer
- Marker
- Tape Measure

1



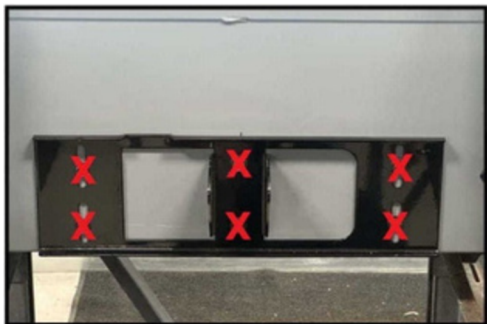
Mark the latch mechanism centerline on the inside of the hatch curb. Align the back bracket center to this marked centerline.

2



Align the bottom of the back bracket flush with the bottom of the hatch curb. Mark the centers of the slotted holes.

3



Drill at the marked locations using a 1/4" drill bit.

4



Install bracket with ears facing up (flat side on top). Secure using (6) 5/16" self-threading body bolts. Tighten until snug — **DO NOT overtighten.**

5



With door open, mark the latch mechanism centerline on the door just below the latch. Remove any interfering fixed handles.

6



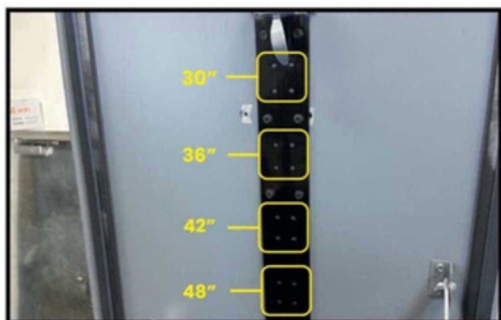
Align the door plate to the center mark below the latch. Mark all (8) outer holes, then drill with a 1/4" bit. *Tip: Start by drilling and installing one top corner bolt. Use the plate as a template to drill and install remaining bolts one at a time.*

7



Secure using (8) 5/16" self-threading body bolts. Tighten until snug — **DO NOT overtighten.**

8



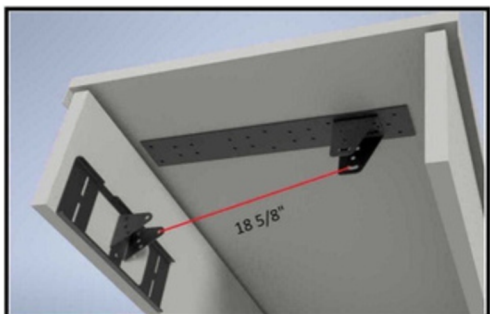
Drill the inner holes to match the nearest hatch inside dimension (hinge side to latch side) using a 1/4" bit.

9



Mount the Rocker Bracket flat side down using 5/16" body bolts. Leave bolts loose to allow vertical adjustment in the next step.

10



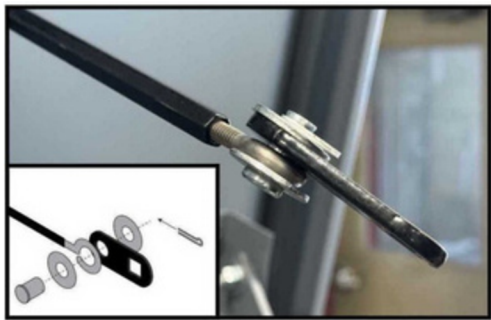
With door closed, measure from the back bracket pivot point to the nearest rocker bracket slot center. Adjust to 18-5/8" ± as close as possible.

11



Remove the latch assembly components (handle and any attached housing) to expose the square latch shaft projecting from the door. *Note: Components may vary by latch type—remove only as needed to fully expose the square shaft.*

12



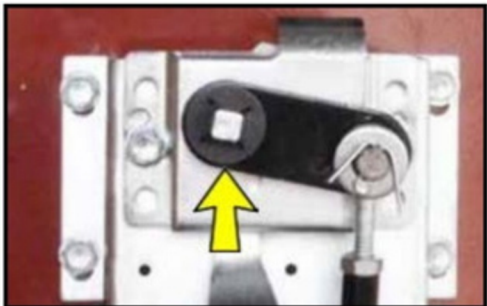
Assemble the latch bracket to the turnbuckle using a clevis pin and washers. Secure with a cotter pin. *Tip: Add washers as needed to remove play.*

13



Slide the latch bracket onto the square latch shaft. Secure with a push-on lock washer. *Note: Do not seat the washer fully—leave slight clearance to prevent bracket rubbing.*

13b



For alternate latch types with a through-shaft and internal mechanism, remove the inside handle (remove roll pin). Slide the latch bracket onto the square shaft and secure with a push-on lock washer. *Note: If using this method, skip Step 14.*

14



Reinstall the latch assembly.

12



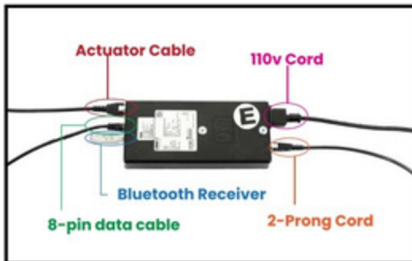
Remove springs/gas struts. **WARNING: Springs are under extreme pressure—use caution when removing.** Note: For larger hatches with multiple springs, remove only enough to prevent the lid from popping open while still allowing manual lifting. This simplifies later latch adjustment.

13



Set the DIN rail centered against the back bracket, keeping the holes 3" above the bracket's top edge. With a 9/64" bit, drill (3) pilot holes, then hold it all together using 1/4-20 body bolts.

14



Connect all cables to the controller.
1. Port1: Actuator Cable
2. Port A1: 8-Pin data cable
3. Port A2: Bluetooth Receiver
4. AC Port: 110v cord
5. DC: 2-prong cord



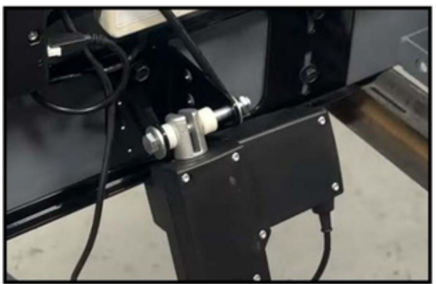
Connect all the cables to the signal box.
1. Power: 2-prong cord
2. Actuators: 8-pin data cable
3. Keypads: 6 pin keypad cable

15



Mount the controller and signal box onto the DIN rail. Press down until each unit clicks into place.

16



Install the bottom of the actuator into the back bracket (Step 4) using a 3" bolt and flat washer. Place (2) nylon spacers on either side of the actuator mount (inside). Secure with a flat washer and nut, then tighten.

17



Connect the actuator to the actuator cable. Plug the AC power cord into an outlet to power the ARHO.

18



Pair the remote to the receiver: wait for the receiver LED to begin flashing (~10 seconds), then press and hold both the up and down buttons until the LED turns solid blue.

19



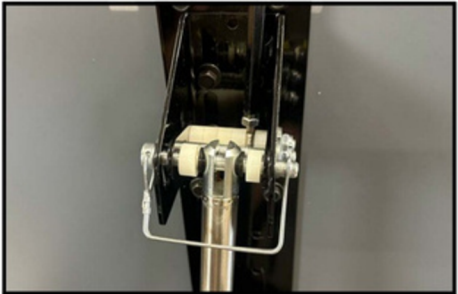
Extend the actuator fully using the remote. Connect it to the rocker bracket (Step 9) using the 3" locking pin with (2) nylon spacers—one on each side of the shaft. Note: If the actuator will not extend, briefly retract it to reset, then extend.

20



CRITICAL: Do not skip this step. After installing the actuator, immediately remove the kickstand. Failure to do so will result in damage to the hatch and ARHO.

21



Close the hatch and observe the rocker bracket—movement is normal. With the hatch closed and the actuator fully retracted, tighten the four rocker bracket bolts.

22



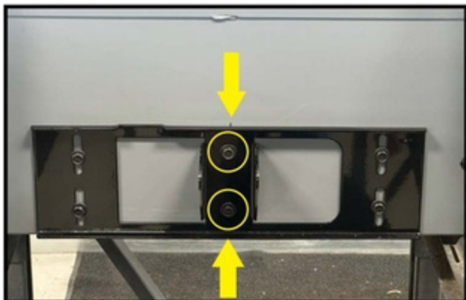
Adjust the turnbuckle so the latch clears the striker as the door begins to open. **IMPORTANT:** Watch the latch during the first opening cycle. If it does not clear the striker, **STOP IMMEDIATELY.** Close the door and adjust the turnbuckle to pull the latch farther inward before continuing—damage will occur if not.

23



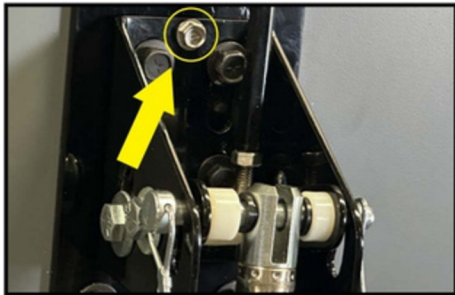
Once adjusted, hold the turnbuckle and tighten the jam nut against it using two wrenches to lock the setting and prevent loosening.

24



If door travel is incorrect, adjust the back bracket (Step 4). Loosen the four outer bolts and shift the bracket: Up = less closing, Down = more closing. Move in 1/2" increments to avoid over-adjustment. Once aligned, re-secure and install center bolts.

25



Once adjustments are complete and verified, secure the rocker bracket using the self-tapping screw.

26



Remove the two body bolts beneath the rocker bracket. Install the safety cable, routing it around the actuator, then reinstall the bolts to secure it. Note: Ensure the cable is positioned to support the actuator if disconnected.

KEYPAD INSTRUCTIONS



INSTALLATION:

- Install the keypad in a safe, dry location (recommended: bottom of the ladder).
- **WARNING: Keypad is NOT weatherproof.**
- Connect the 6-pin keypad cable.
- Wait for the keypad to power up—the unit will beep continuously for ~1 minute (this is normal).

INITIALIZING THE KEYPAD:

- Keypad is ready after power-up cycle completes
- Enter **0000**, then press **#** (factory default code)
- Press and hold UP/DOWN arrows to operate
- Keypad will auto-lock after a short period

Note: Default code will work until reprogrammed.

REPROGRAMMING THE KEYPAD

Master Code

1. Wait 1 minute after the Keypad is powered up to stop beeping.
2. Set Keypad into programming mode with the factory programming code **1234**** you should hear two beeps; it is now ready to program. (Note: The master code is for setting user codes or adding RFID cards, the master code does NOT operate the hatch)
3. Change the factory master code to owner's master code (master code cannot be the same as a user code).
INPUT 01 - (New Master Code) - # You will hear two beeps to confirm entry.
4. Press ****** to exit programming.
5. Example: **01 - 4321 - # - ****

RFID Card

1. First **INPUT (Owner's Master Code) - ****. Pressing **20** prepares the system for a new authentication method. Next, pressing **1** will allow for an RFID card, or pressing **2** will prepare it for a new user code. Next, enter a User ID, from **001** to **100**. This must be unique for each user code or RFID card used.
 2. Scan the RFID card, then press **#**. You can add another card by pressing **20** again and going through the steps with a different User ID.
 3. Press ****** to exit programming.
- Example: [For User ID #1 **INPUT 20 - 1 - 001 - Scan Card - #**] [For User ID #2 **INPUT 20 - 1 - 002 - Scan Card - # - ****]

User Code

1. First **INPUT (Owner's Master Code) - ****
 2. Press **20** to prepare the system, then press **2** to choose user code as the method, then enter a unique User ID from **001** to **100**. Then input the new user code and press **#**. You will hear two beeps to confirm entry.
 3. Press ****** to exit programming.
- Example: [For User ID #3 **INPUT 20 - 2 - 003 - 3333 - #**] [For User ID #4 **INPUT 20 - 2 - 004 - 4444 - # - ****]

Delete a User Code or Card

1. First **INPUT (Owner's Master Code) - ****
2. Press **20 - 5 - (User ID or Scan Card) - #**
3. Press ****** to exit programming.

TROUBLESHOOTING GUIDE

If a remote or keypad signal is used to open or close the hatch, movement happens in only one of those directions, while the opposite command produces no reaction at all.

- During the first run, the hatch might travel in a single direction only
- Keep driving it that way until the actuator has run through one complete cycle
- Once that finishes, movement in both directions will work as normal

The hatch fails to move in either direction.

- Check that every electrical connection is secure
- Make sure each plug is pushed in completely
- Check that the actuator and data cables sit in their proper ports – refer to Step 14

The hatch responds to just the remote or just the keypad

- **Keypad only:** The remote might require pairing – refer to Step 18
- **Remote only:** Inspect the keypad and signal box connections
- When the keypad has power and its indicator light reacts, look for loose internal wiring should the problem continue

MAINTENANCE

The SafePro automatic hatch opener is designed for minimal routine maintenance. Perform the inspections below at the recommended intervals to maintain proper system function.

MONTHLY

- Visually inspect all system components for proper condition and secure attachment
- Verify all moving parts operate freely without interference
- Confirm latch tongue releases properly and does not restrict door movement
- Inspect wiring for damage, loosened connections, or potential snag points during operation or access

SEMI-ANNUALLY (Twice Per Year)

- If equipped, check battery charge status using the built-in status indicator button on the front of the battery
- If the battery does not reach a full charge or shows reduced capacity, plan for replacement. Replacement batteries are available for purchase
- Apply light lubrication to the rocker bracket and latch tongue using a lithium or silicone-based lubricant
- Verify the turnbuckle jam nut is secure and the latch adjustment has not shifted

GENERAL NOTES

- Use only compatible replacement parts
- Perform all maintenance with power disconnected where applicable
- If system performance issues are observed, address them prior to continued operation