XRS

Extreme Roll Up Series

Premium *Plus* Installation Guide

Airlift Doors, Inc.
Toll Free: 888-368-4403
www.airliftdoors.com

****CAUTION****

Please read through these instructions before beginning installation of the door. Only trained professional door installers should attempt installation of the XRS series doors from Airlift Doors, Inc.

Some steps in this process require lifting up to 200 lbs and we strongly recommend using a mechanical lift or 3 people with proper lifting and safety equipment.

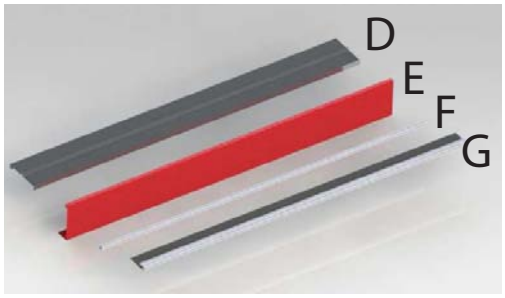
Always inspect your tools and equipment such as ladders and be sure all are in proper working operation before beginning the installation.

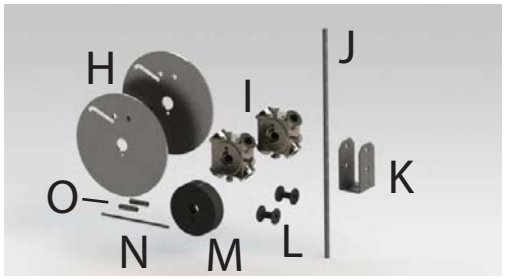
For all XRS Plus models, both Premium and Elite, 120v power will need to be run to the control box. Furthermore, wiring capable of supporting 3phase/230v power will need to be run from the control box to the door opener.

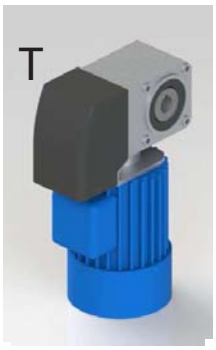
Only a licensed electrician should make the necessary connections to the controls & motor and you should never attempt to service the motor without first disconnecting the power supply to the motor. Performing service on this motor without disconnecting the power supply may result in serious injury or death.

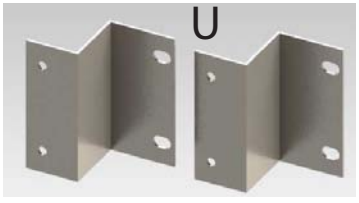
All components of this door have been engineered according to measurements provided to Airlift Doors, Inc. Do not attempt to modify any components or use any substitute parts without first consulting a factory representative of Airlift Doors, Inc. Failure to do so may alter the operation of the door and may create dangerous scenarios upon installation or normal operation that could result in personal injury or death. Any modifications to the product without factory approval will void all factory warranties.

XRS Parts List





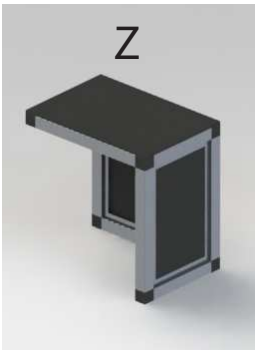




A: Door Assembly
B: Left Hand Track
C: Right Hand Track
D: Aluminum Cover w/Support Bar
E: Vinyl Cover w/Support Bar
F: Single Support Bar
G: Double Support Bar w/Seal
H: Strapeze Guide Disks (2)
I: Strapeze Winding Hubs (2)
J: Strapeze Weight Rod
K: Strapeze Weight Rod Clevis
L: Strap Spools (2)
M: Strapeze Start Spacer
N: Strap Pin
O: Strapeze Sleeves (2)
P: Large 18.9lb Weight
Q: Small 5lb Weight
R: Strapeze Strap
S: Bearings (2)
T: XRS Opener
U: Opener Mounting Brackets (2)
V: Shaft Collar
W: PVC Shaft Spacer (2)

Not Pictured
X: XRS Fastener Kit

Optional Accessories
Y: Motor Cover
Z: Strapeze Cover



CAUTION

Please read all instructions prior to beginning installation. Use caution, improper installation of door can cause severe injury or death. Door to be installed by qualified personnel utilizing proper safety equipment.

STEP 1 - MEASURE DOOR OPENING AND FLOOR TO CEILING HEIGHT

The door tracks have been pre-cut at the factory to match ceiling measurements given to us at the time of the order. **DO NOT CUT TRACKS WITHOUT CONSULTING THE FACTORY FIRST!! IF TRACKS WILL NOT FIT OR YOU FEEL THEY NEED TO BE CUT, PLEASE CALL TECH SUPPORT AT 1-888-368-4403 BEFORE PROCEEDING.**

STEP 2 - UNPACK HARDWARE

Unpack door and all hardware. Confirm all parts listed in the parts list have been included.

STEP 3 - DETERMINE LH & RH TRACKS

3-1: The left hand track will have the the bearing plate at the top and the brush seal pointed to the right towards the center of the door opening.

3-2: The right hand track will have the bearing plate at the top and the brush seal pointed to the left towards the center of the door opening.

3-3: For each track, the fastening portion of the track with the pre-drilled holes will be pointed away from the door opening.

STEP 4 - MOUNT LEFT HAND TRACK

4-1: Place track against the wall so the black fiberglass reset bracket is against the inside of the door jamb and the brush seal is pointed towards the center of the opening. (FIG. 4A & 4B)

FIG. 4A

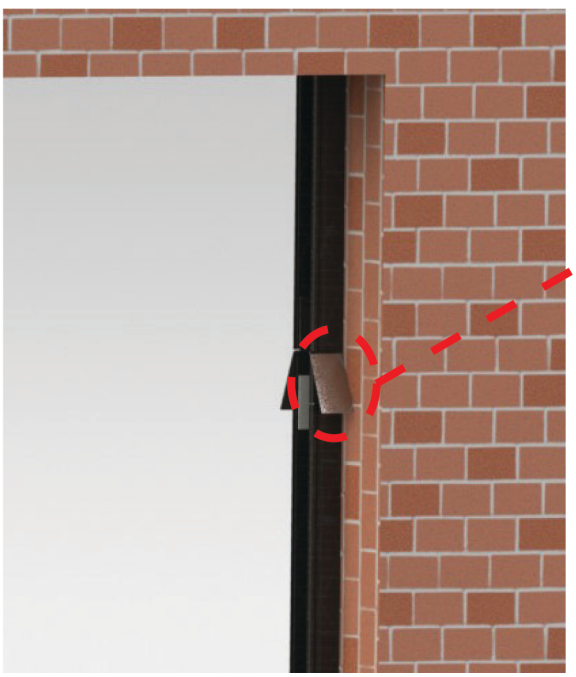


FIG. 4B

STEP 4 - MOUNT LEFT HAND TRACK cont...

4-2: Level the track and mount to the door jamb at the midpoint of the track ***using only 1 anchor at this time.*** The remaining anchors will be used in a later step.

STEP 5 - MOUNT RIGHT HAND TRACK

5-1: Repeat step 4 for the right hand track assembly.

STEP 6 - MOUNT TOP COVER

6-1: Using two people, lift the aluminum top cover assembly onto the top of the bearing plates. Make sure the square support bar is on the bottom of the cover and is towards the wall. (FIG. 6A)

6-2: Using two 5/16" x 1" bolts, attach the cover support bar to each bearing plate. Use the inner most pre-drilled hole at the top of the bearing plates. (FIG. 6B)

FIG. 6A

FIG. 6B

STEP 7 - MOUNT VINYL COVER SUPPORT BAR

7-1: Unroll vinyl cover from aluminum support bar as shown in FIG. 7A below.

FIG. 7A

STEP 7 - MOUNT VINYL COVER SUPPORT BAR cont...

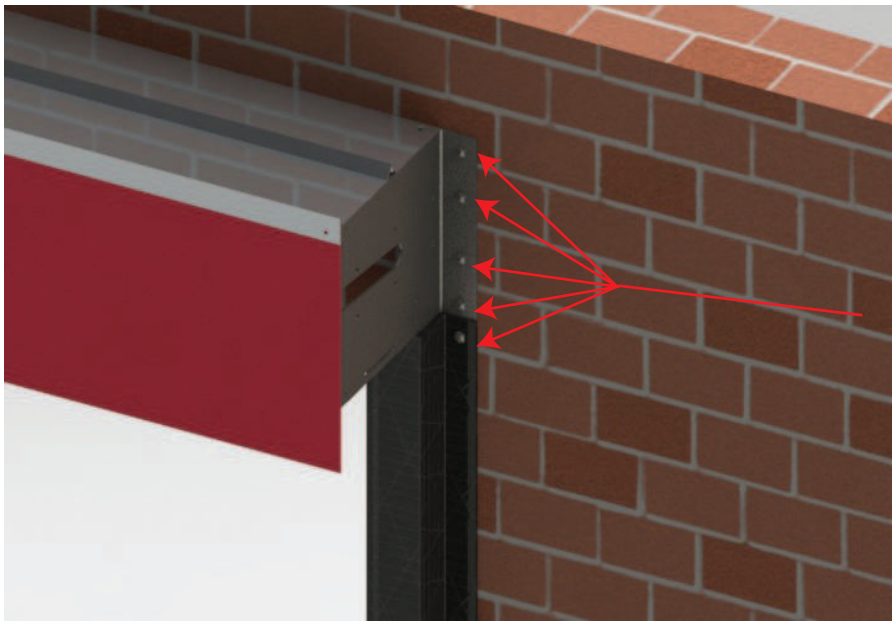
7-2: Using two people, lift the support bar with the cover attached and fasten it to each bearing plate using two 5/16” x 1” bolts. The bar will mount to the outer most mounting hole at the top of each plate. DO NOT TIGHTEN BOLTS AT THIS POINT. Leave them slightly loose until you complete step 15. (FIG. 7B)

FIG. 7B

STEP 8 - COMPLETE TRACK MOUNTING

8-1: Check that both tracks are level and square with the mounting surface.

8-2: Complete the mounting of the track by fastening the track to the wall through the remaining pre-drilled holes in both the track and the bearing plates. (FIG. 8A)



Fasten tracks and bearing plates to wall through all remaining pre-drilled holes.

STEP 9 - INSTALL DOOR ASSEMBLY

CAUTION

DO NOT REMOVE THE ROPES FROM THE DOOR ASSEMBLY YET. THE DOOR NEEDS TO REMAIN ROLLED UP UNTIL A LATER STEP!!

****IMPORTANT** USE EXTREME CAUTION WHEN LIFTING THE ROLLED DOOR ASSEMBLY INTO PLACE. DOOR WEIGHT IS APPROXIMATELY 160-200 LBS. LIFTING THE DOOR IMPROPERLY AND/OR USING LESS THAN THE RECOMMENDED NUMBER OF PEOPLE CAN RESULT IN SERIOUS INJURY OR DEATH.**

9-1: Lift vinyl cover on top of the door assembly so it is not in the way. (NOTE, the vinyl cover has been removed from the figures below for clarity.)

9-2: Slide one 1” PVC shaft spacer on each end of the shaft. (FIG. 9A)

9-2: Remove rolled door assembly from box. Using 3 people or a mechanical lift, lift the door assembly into place and slide the exposed ends of the shaft into the slots at the front of each bearing plate.

9-3: **IMPORTANT** Be sure to orient the door so the yellow bottom edge is closest to the wall. The door panels will unroll on the wall side of the tube.

SEE FIGURES 9A & 9B BELOW

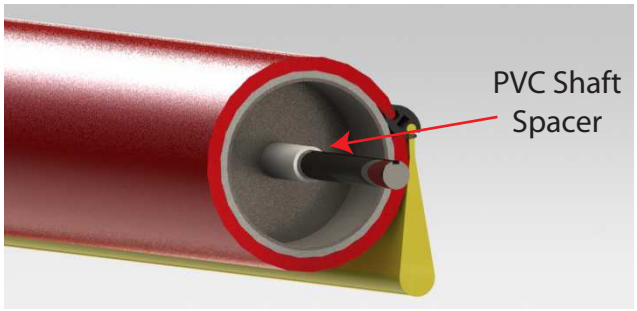


FIG. 9A

FIG. 9B

9-4: Lift the rolled door assembly into place by sliding the ends of the shaft into the slots at the front of each bearing plate. (FIG. 9C)

FIG. 9C

STEP 10 - INSTALL BEARINGS

10-1: Slide bearing onto shaft. LIft the shaft slightly to align the the bearing mounting holes with the pre-installed 3/8” bolts. Slide the bearing onto the mounting bolts until it is against the retaining nut. (FIG. 10A

10-2: Use (2) 3/8” lock washers and (2) 3/8” nuts to fasten the bearing to the bearing plate. (FIG. 10B)

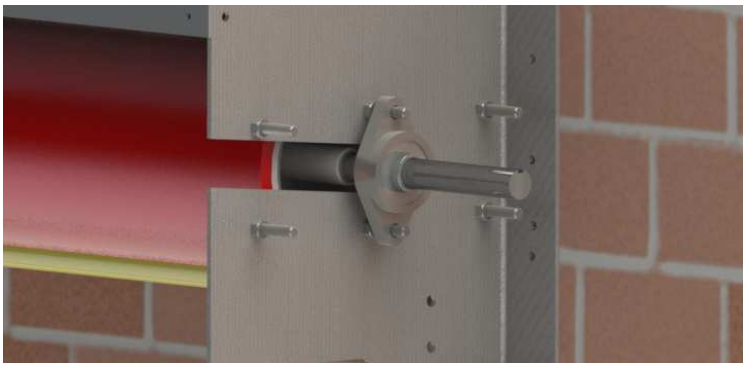


FIG. 10A

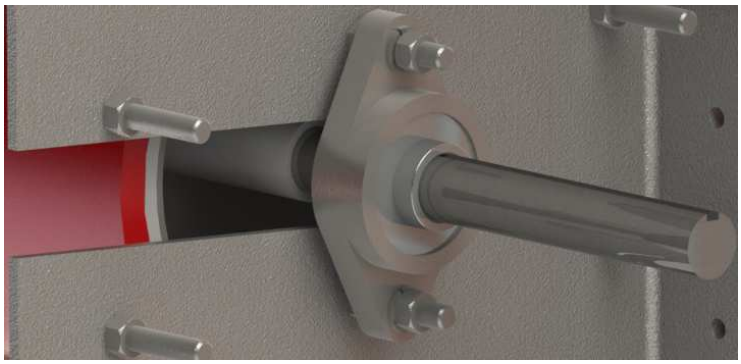


FIG. 10B

10-3: Repeat steps 10-1 and 10-2 for the opposite side of the door.

STEP 11 - SET DOOR OPENING HEIGHT

11-1: Have one person place a vice grip on the door shaft on the side opposite of the black pulley. This person must hold the vice grip firmly to prevent the door from unrolling.

11-2: While the vice grip is being held, have another person untie the ropes from the door assembly.

11-3: **IMPORTANT Guide the edges of the door into each track and lower the door by hand until the bottom edge is at the desired opening height. For instance, if you have a 10’ high opening, but only want the door to open to 8’, you must lower it to 8’ before proceeding. The door must be lowered into the tracks at least 2” at minimum, no less. (FIG’s. 11A & 11B)**

11-4: Once the door at the desired opening height, place the vice grip on the shaft and against the wall so the door remains in that position and doesn’t unroll. Be sure to place the vice grip on the side of the door that does not have the black pulley assembly attached to the bearing plate. (FIG. 11C)

FIG. 11A (Door set to open to 10’)

FIG. 11B (Door set to open to 8’)

FIG. 11C

STEP 12 - MOUNT BOTTOM SUPPORT BAR

12-1: Install the outer, bottom support bar to each bearing plate using (2) 5/16” x 1” bolts. (FIG. 12A)

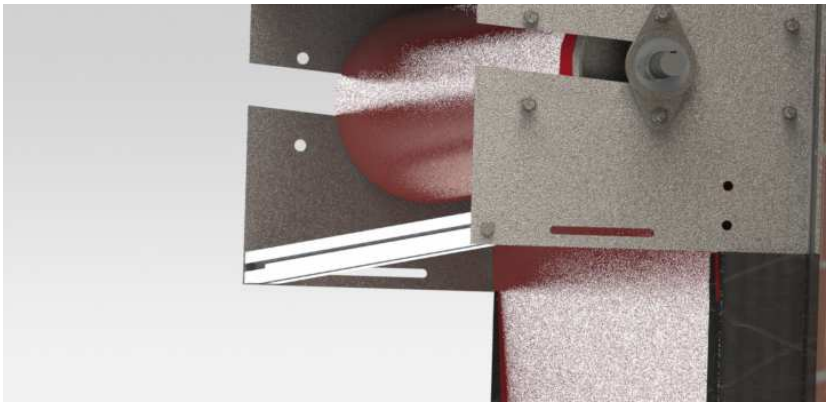


FIG. 12A

STEP 13 - INSTALL COVER BOLTS

13-1: Lay the double wide support bar flat on the ground with the black rubber seal on top.
13-2: Slide (5) 1/4”X1/2” hex head bolts into the slot next to the rubber seal as shown below. (FIG. 13A)
13-3: Space the bolts evenly along the length of the support bar.

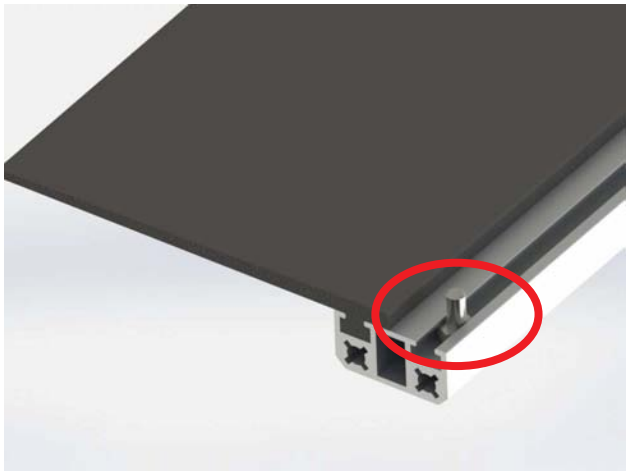
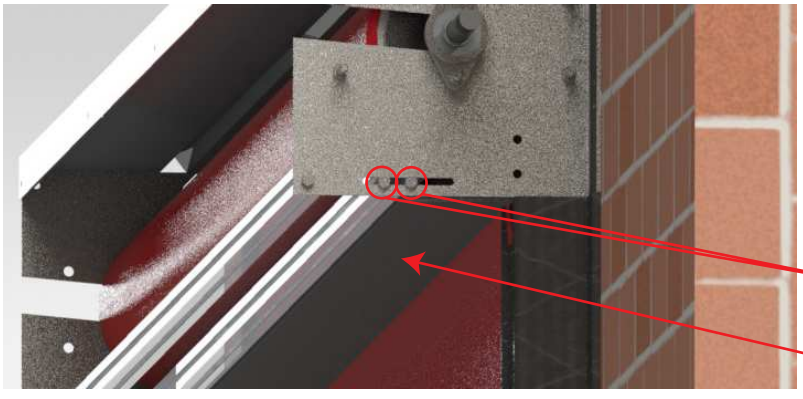


FIG. 13A

STEP 14 - MOUNT DOUBLE SUPPORT BAR

14-1: Flip the double support bar over so the rubber seal is on the bottom.
14-2: Mount the double support bar to the slot in the bottom of each bearing plate using (4) 5/16” x 1” bolts.
14-2: Do not tighten these bolts yet. Leave them loose so the bar can slide in the slot.



STEP 15 - COMPLETE VINYL COVER INSTALL

15-1: Pull the front vinyl cover down and wrap it around the bottom support bars. (FIG. 15A)

15-2: Adjust the location of the 1/4" bolts in the bottom slot of the double support bar so they are aligned with the 5 grommets in the bottom edge of the vinyl cover.

15-3: Using (5) 1/4" x 1/2" hexhead bolts, fasten the vinyl cover to the double support bar. **NOTE: Be sure to stretch the vinyl cover as you go to prevent a wrinkled appearance. (FIG. 15B)

15-4: Once the vinyl cover is fastened to the double support bar, slide the black rubber seal in towards the door until the rubber seal just touches the vinyl. (Fig. 15C)

15-5: While holding the rubber seal in place tighten the (4) 5/16"x1" bolts that fasten the bar to the bearing plate. Next rotate the upper support bar until the vinyl cover is tight. Tighten the (2) 5/16" bolts holding the upper support bar. (Fig. 15D)

FIG. 15A

FIG. 15B

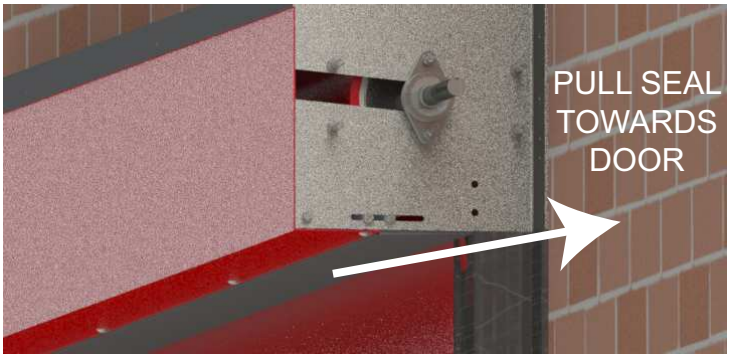


FIG. 15C

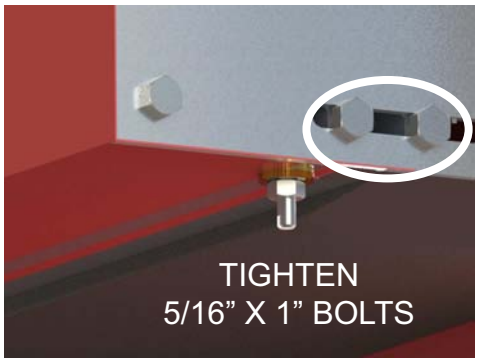


FIG. 15D

STEP 16 - INSTALL POLY INTO BEARING PLATE SLOTS

16-1: Slide one of the 2" x 5" pieces of polycarbonate into the slot in each bearing plate as shown. (FIG's. 16A & 16B)

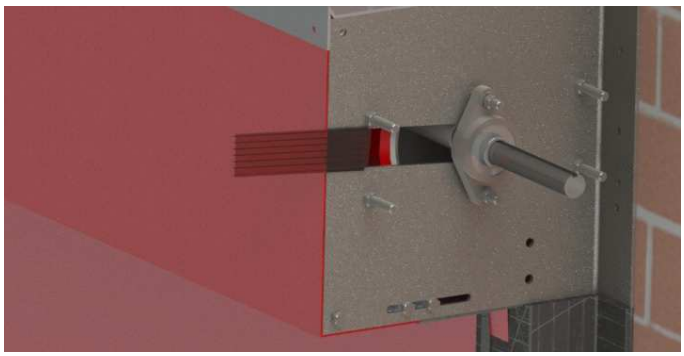


FIG. 16A

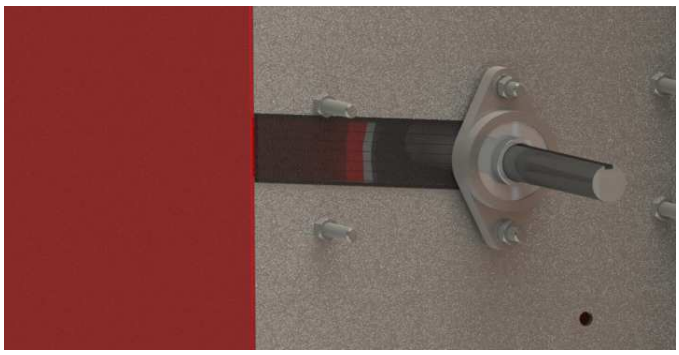


FIG. 16B

STEP 17 - INSTALL STRAPEZE SYSTEM

17-1: The side of the door that the strapeze counterweight system will be installed on was pre-determined and configured at the factory. The strapeze system will be installed on the side with the pre-installed black pulley assembly.

17-2: **IMPORTANT** If the pre-determined side is incorrect or there are obstructions in the way that would prevent installation on that side, stop at this step and consult the factory before proceeding.

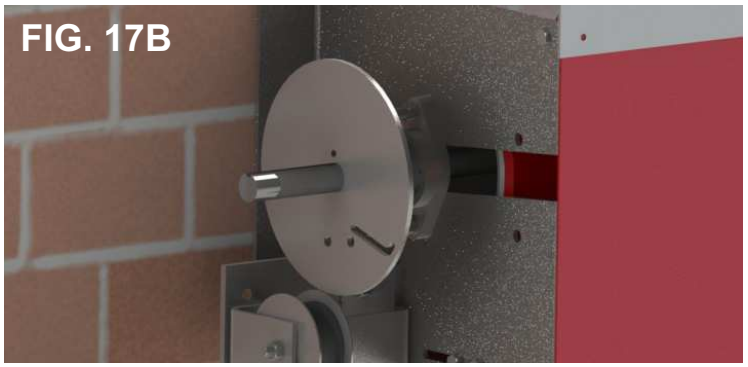
17-3: Begin by sliding one winding hub onto the shaft. Note that the set screws on the winding hub are offset from center. Be sure to slide the hub on the shaft so the set screws are closest to the bearing. (FIG. 17A)

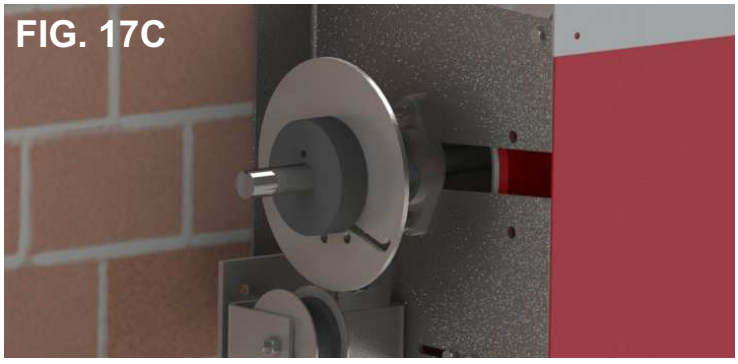
17-4: Next slide one of the 8" guide disks on the shaft against the winding hub. The "J" shaped slot in the disk should be pointed away from the wall as shown in (FIG. 17B).

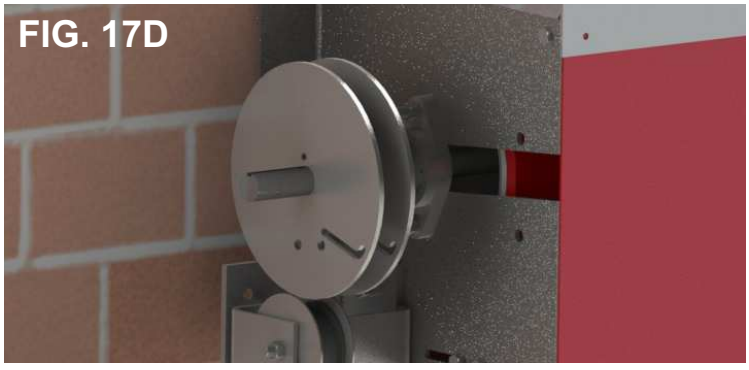
17-5: Next slide the black start spacer on the shaft against the guide disk. (FIG. 17C)

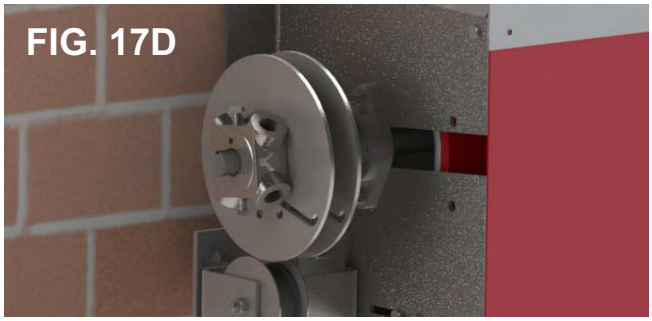
17-6: Next slide the other guide disk on the shaft against the start spacer. Note, the "J" slots in each disk should away from the wall and parallel. (FIG. 17D)

17-7: Finally, slide the other winding hub on the shaft against the guide disk. Position the hub so the set screws are away from the guide disk. (FIG. 17E)









STEP 18 - INSTALL STRAP PIN

18-1: Rotate all the parts installed in step 17 so the single 1/4” hole running through each part is aligned. (FIG. 18A)

18-2: Insert the 1/4” strap pin into the single 1/4” hole of the outer winding hub and slide itthrough the entire Strapeze assembly so approximately 1/4” of the pin is sticking out towards the bearing. (FIG. 18B)

FIG. 18A

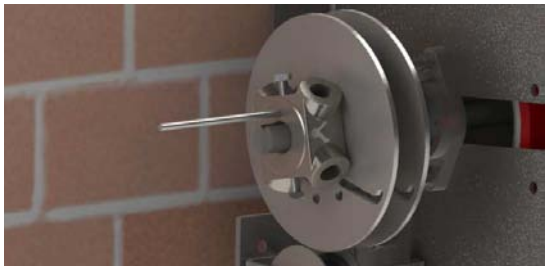


FIG. 18B

18-3: Once the strap pin is in place, hand tighten set screws on each winding hub that are directly above the pin. **NOTE** Leave the other two set screws on each hub loose. (FIG. 18C)

FIG. 18C

STEP 19 - INSTALL STRAP

19-1: Unroll the plastic coated strap and guide it into position by running it behind the smaller strap pulley and then around the shaft. Position it on the black plastic start spacer between the two guide disks. **IMPORTANT** Be sure there are no twists in the strap and the sewn portion of the strap is positioned approximately 12” from the bottom of the strap. If there are twists, remove the strap from the shaft, untwist it, and perform this step again. (FIG. 19A & 19B)

****PLEASE NOTE THE STRAP IN THE FIGURE IS COLORED YELLOW ONLY FOR CLARITY. ACTUAL STRAP COLOR WILL BE BLACK****

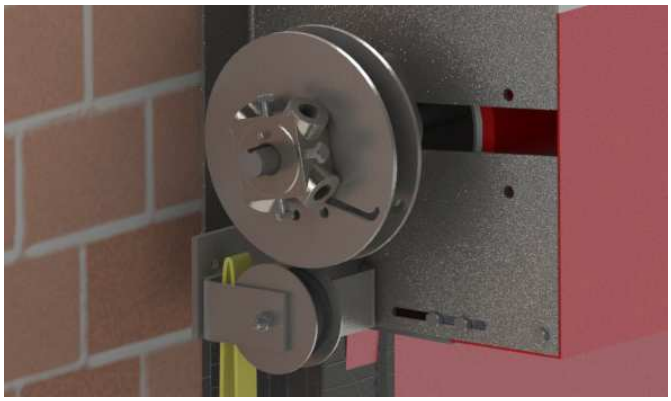


FIG. 19A

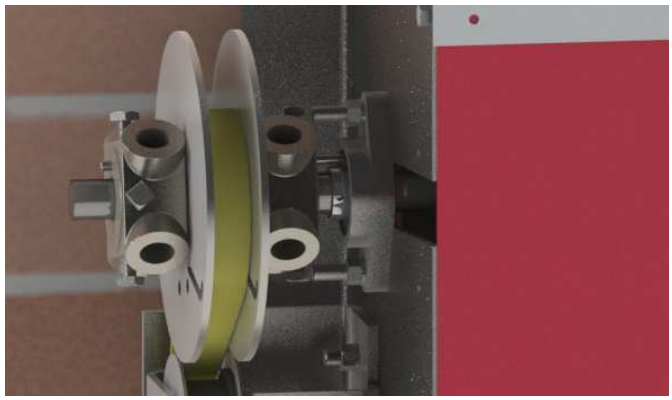


FIG. 19B

19-2: install two of the 1/4" bolts through the pre-drilled holes in each guide disk. The bolts should be on the outside of the strap. The strap should run between the bolts as shown in FIG. 19C. Thread a 1/4" lock nut onto the bolt, but do not tighten yet.

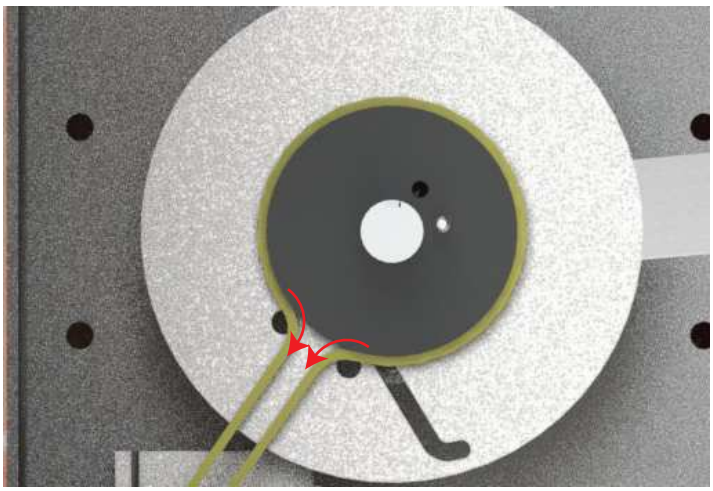


FIG. 19C

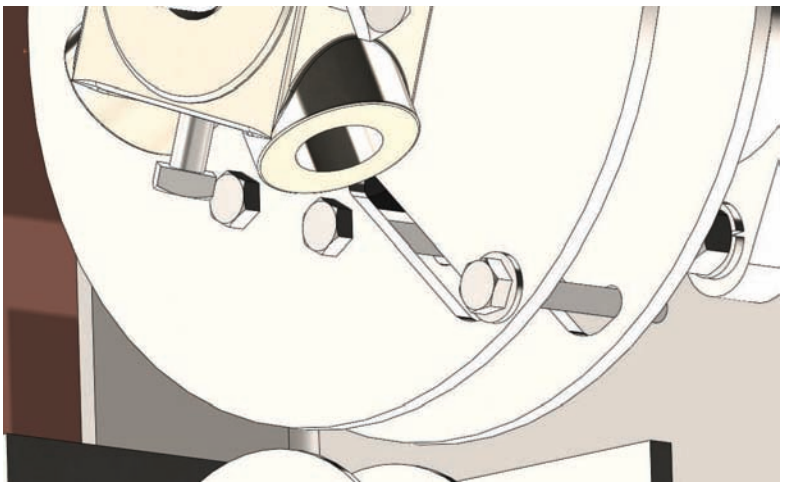


FIG. 19D

19-3: Next install the remaining 1/4" bolt through the "J" shaped slot in the guide disks. Thread a 1/4" lock nut on this bolt, but do not tighten yet. (FIG. 19D above)

STEP 20 - ASSEMBLE WEIGHT BRACKET AND ROD

20-1: Thread one 3/8" lock nut onto the threaded rod so the end of the rod is flush with the outside of the nut. (FIG. 20A)

20-2: Slide all 1-1/2" washers provided onto the rod. (FIG. 20B)

20-3: Slide the strap clevis bracket onto the rod so the flat bottom portion of the bracket is towards the washers and nut. (FIG. 20C)

20-4: Thread a 3/8" lock nut onto the opposite end of the rod until the end of the rod is flush with the outside of the nut. (FIG. 20D)

FIG. 20A

FIG. 20B

FIG. 20C

FIG. 20D

STEP 20 - ASSEMBLE WEIGHT BRACKET AND ROD cont...

20-5: Make sure the strap does not have any twists in it.

20-6: Place a strap spool on the loop of the strap as shown in FIG. 20E.

20-7: Align the strap spool with the top two holes in the the strap clevis bracket. (FIG. 20F)

20-8: Insert a 3/8” x 3” bolts through the bracket and the spool. Thread a 3/8” lock nut onto the bolt. Tighten the nut only until the end of the bolt is flush with the outside of the nut. This bolt must be free to spin. Do not overtighten. (FIG. 20G)

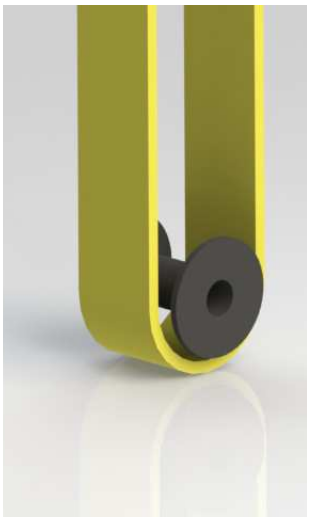


FIG. 20E

FIG. 20F

FIG. 20G

STEP 21 - INSTALL COUNTERWEIGHTS

21-1: Slide the washers on the strap rod to the top leaving two washers at the bottom.

21-2: Place one of the larger 18.9lb weights on the rod so it rests on the bottom two washers.

21-3: Lower one of the washers onto the first weight and stack another 18.9lb weight on top of the first one. **NOTE** Rotate the 2nd weight 180 deg. so the gaps in the weights are facing opposite directions.

21-4: Continue stacking the large weights in this manner making sure to place a washer in between each one and to rotate each weight 180 deg. Finish by stacking any smaller weights provided on top of the large weights. (FIG. 21A)

FIG. 21A

STEP 22 - TIGHTEN STRAPEZE ASSEMBLY

22-1: Push all parts of the strapeze assembly together and pull down on the strap so the front sleeve is visible and the strap isn't wound on the shaft. Slide the entire assembly so the strap is directly in line with the black pulley assembly. (FIG. 22A)

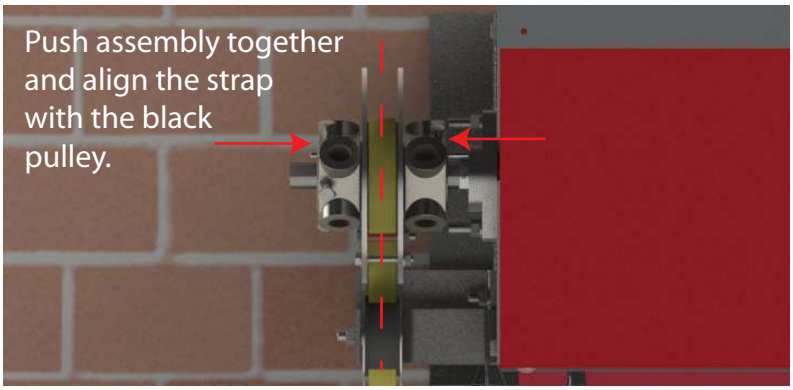


FIG. 22A

22-2: Tighten the 6 square head set screws on the winding hubs. Be sure to keep the assembly centered with the black pulley. (FIG. 22B)

****NOTE: The set screws on each winding hub must be tightened considerably to prevent slippage. We recommend using a 3/8" - 8 point socket that is designed to be used on square head bolts. Improper tightening of these bolts can cause the weights to fall resulting in injury and/or damage to the door assembly.**

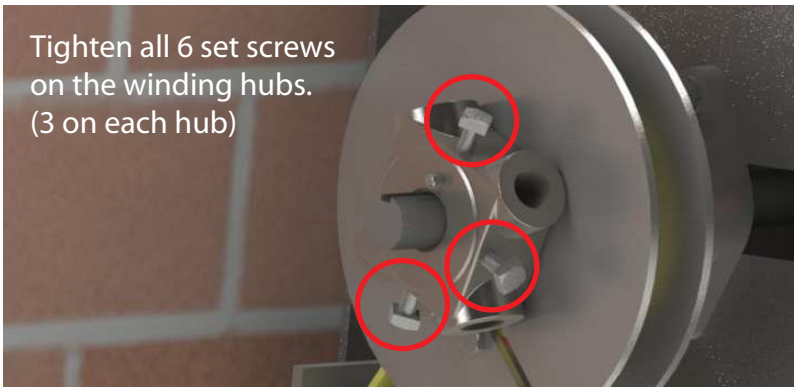


FIG. 22B

22-3: Finally, tighten the two 1/4" bolts running through the pre-drilled holes until they are snug. Do not overtighten. (FIG. 22C) **NOTE** Do not tighten the bolt running through the "J" slot. This must remain loose.

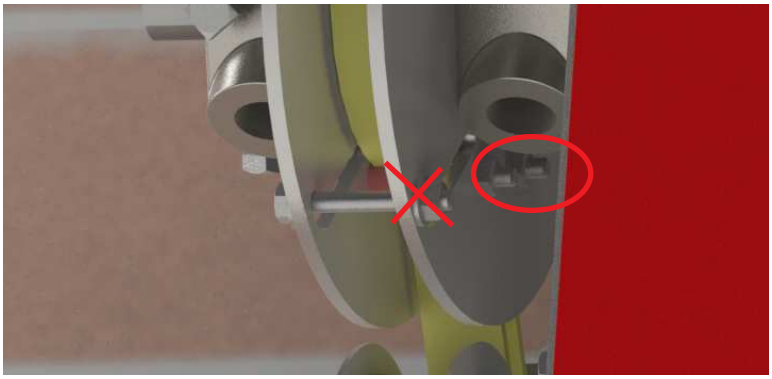


FIG. 22C

STEP 23 - OPENER INSTALLATION

23-1: Unpack the opener and lay it flat on the ground.

23-2: Determine which side of the opener to attach the mounting brackets. **NOTE** When the opener is mounted, the black electronics cover will be facing away from the wall. (FIG's. 23A & 23B)

FIG. 23A (Right Hand Motor Mount)

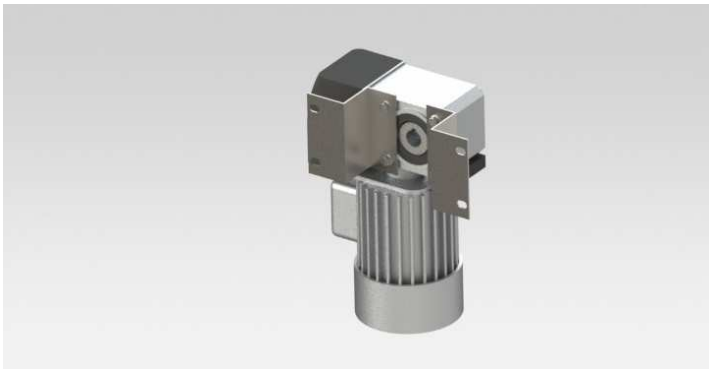


FIG. 23B (Left Hand Motor Mount

23-3: Attach the opener brackets to the correct side of the opener using (4) M8 x 1/2" bolts.
NOTE The opener brackets mount to the opener through the smaller round holes, NOT the larger slotted holes.

23-4: Slide the opener onto the end of the shaft making sure the brackets are towards the bearing plate and the black opener cover is facing away from the wall. (FIG. 23C)
OPTIONAL Apply Anti-Seize to the door shaft before installing the motor. (Not supplied)

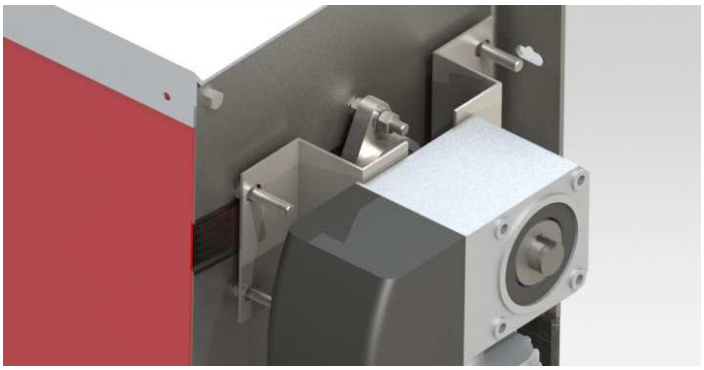


FIG. 23C

23-5: Align the slotted holes in the mounting brackets with the bolts on the bearing plate. Slide the opener onto the bolts. Fasten the mounting brackets to the bearing plate using 3/8" lock washers and 3/8" nuts. (FIG. 23D)

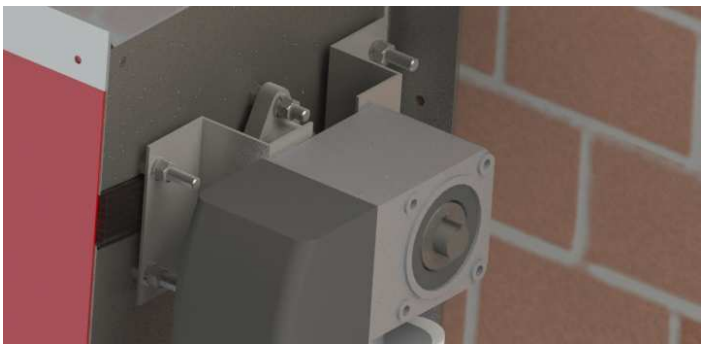


FIG. 23D

STEP 23 - OPENER INSTALLATION continued.....

23-6: Rotate the door shaft with a vice grip until the keyway of the shaft is in line with the key slot in the opener. (FIG. 23E)

23-7: Insert the opener key into the keyway and key slot and push it in until approximately 1/4” is sticking out. (FIG’s. 23F & 23G)

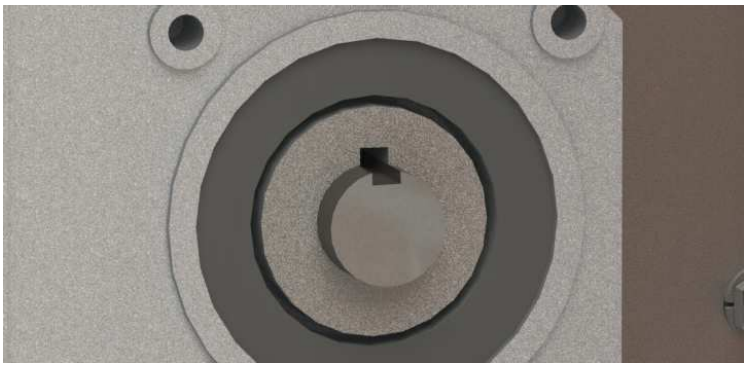


FIG. 23E

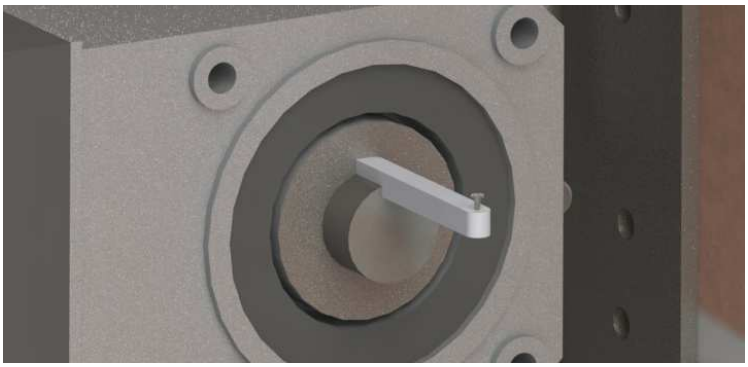


FIG. 23F

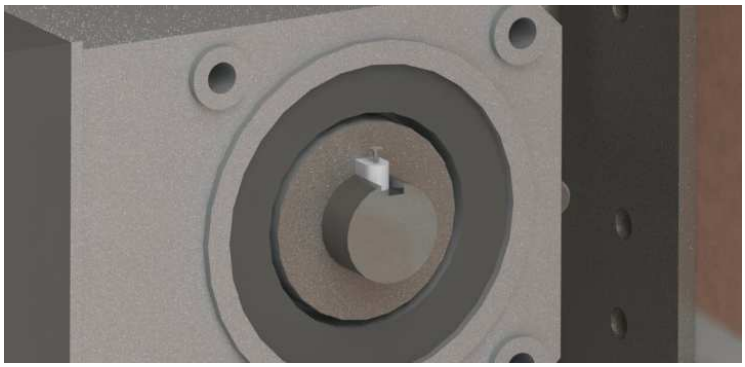


FIG. 23G

23-8: Slide the 1” shaft collar onto the end of the shaft. Push it against the key and tighten the collar set screw. (FIG. 23H)

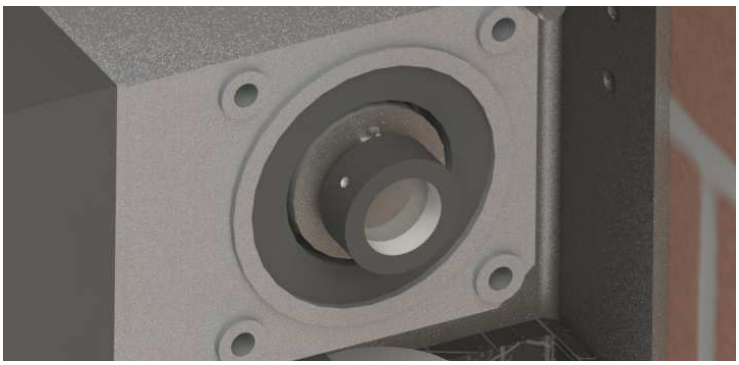


FIG. 23H

23-9: Pull down on the door to determine if the opener is engaged. If you cannot pull the door down, the opener is engaged, proceed to step 23-10. If you are able to pull the door down, release it so it opens all the way. Then pull the shorter of the two cables on the rear side of the cylinder to engage the opener.

STEP 23 - OPENER INSTALLATION continued.....

23-10: With the opener engaged, attach the RED handled rope to the shorter of the two cables at the rear of the opener. Attach the GREEN handled rope to the longer of the two cables. Cut the ropes to the desired length.

23-11: Mount and wire your door control according to the wiring insert included in your installation packet.

23-12: Proceed to step 24 when wiring is complete.

STEP 24 - INSTALL PHOTO EYES

24-1: Using the aluminum mounting brackets provided, first mount each photo eye to a bracket.

24-2: Next, mount the brackets to the door track approximately 2 ft above the floor as shown below. (FIG. 24A or 24B)

FIG. 24A (Banner Eyes)

FIG. 24B (Telco Eyes)

24-3: Wire the photo eyes to the controls as specified in the wiring diagram included with this guide.

STEP 25 - OPENER ADJUSTMENTS

The XRS Roll Up Door Opener allows the user to adjust the overall speed of the opener by using the arrow buttons on the VFD inside the control box. PLEASE NOTE that adjustments to the opener speed will require adjustments to the open and close limits on the opener. This is due to the fact that as the opener runs at a faster speed, the momentum of the door and the time it takes to slow the door down both increase. In other words, the faster the door moves, the more it will "coast" to a stop. Please use the following step by step instructions to properly set the opener limits.

CAUTION During this entire procedure you must be ready to press the STOP button on the control box to prevent the door from travelling too far in either the open or close direction. Failure to do so may result in damage to the door and may require replacement or disassembly in order to fix the problem.

The opener limits are set by adjusting two of the four plastic cams at the top of the opener.

- The green cam closest to the opener sets the open limit.
- The white cam, 2nd closest to the opener sets the close limit.

The opener limits were preset at the factory to allow the door to travel within 1-2 ft of the floor at 20% opener speed. Follow these steps to set the door to open and close to the desired position.

STEP 25 - OPENER ADJUSTMENTS continued.....

25-1: The first step is to adjust the opener run at the desired speed. This is done by using the UP/DOWN arrows on the face of the VFD inside the control box. (FIG. 25A)

Fig. 25A - VFD

UP arrow increases opener speed

Digital readout shows current opener speed as a percentage of the maximum speed. The range is from 0% to 100%. A setting of 100% is equal to approximately 30” per second of door travel.

DOWN arrow decreases opener speed

NOTE The remaining buttons on the VFD are NOT USED.

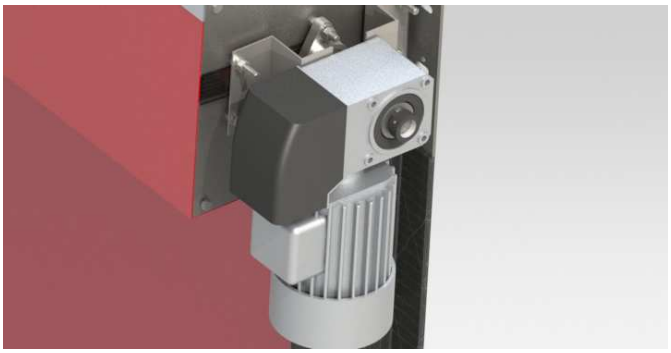
OPEN AND CLOSE SPEED ARE NOT INDIVIDUALLY ADJUSTABLE

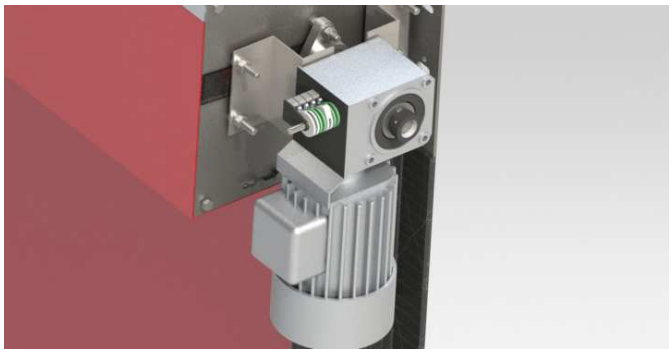
25-2: Adjust the VFD to a desired speed using the UP/DOWN arrows and press CLOSE on the control box. **REMEMBER TO BE READY TO PRESS STOP**

25-3: Adjust the door speed as needed.

25-4: Once the desired opener speed has been set, press the open button and stop the door when it is approximately 12” below the desired opening height.

**The opener limits are set by adjusting the Open and Close limit cams inside the gear head portion of the motor. Before proceeding, remove the black plastic cover from the opener so you have access to the Limit Assembly.





STEP 25 - OPENER ADJUSTMENTS continued.....

25-5: Press the open button and then stop the door approximately 12” below the desired opening height.

25-6: Loosen the set screw on the Open Limit Cam (Innermost Green Cam) and rotate it clockwise until the limit switch is pressed in from below. Retighten the set screw. (FIG. 25B)

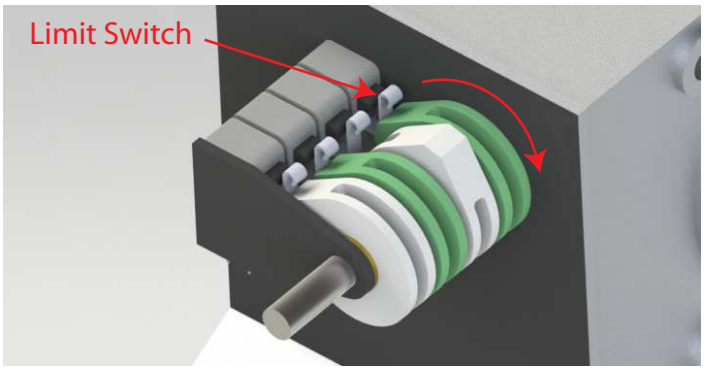


Fig. 25B

25-7: Now press the close button and stop the door when it is approximately 12” above the floor.

25-8: Loosen the set screw on the Close Limit Cam (Inner White Cam) and rotate it counterclockwise until the limit switch is pressed in from above. Retighten the set screw. (FIG. 25C)

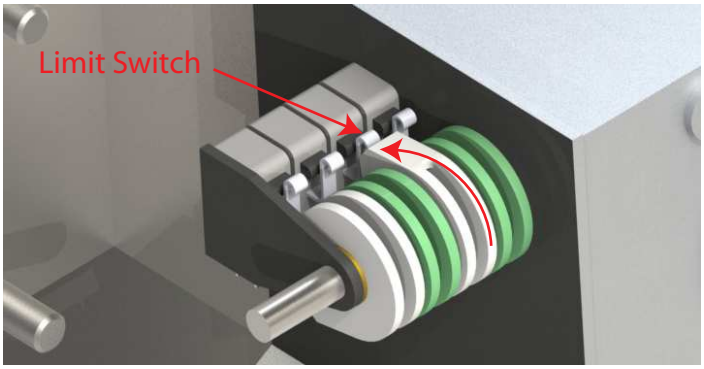


Fig. 25C

25-9: Depending on the speed you have chosen for the opener, you may have to fine tune adjust the limit cams. This is due to the coasting nature of the opener.
Run the door open and closed and adjust the fine tuning screw on the Open/Close limit cams until the door stops at the desired open and close positions.

****IMPORTANT****

Once the opener limits have been set, any adjustment to the opener speed will require that you adjust the opener limits as well.

IMPORTANT

Once the opener limits are set, it is very important to make sure the counterweight system is in sync with the opener. To sync the counterweight system to the opener, follow the steps below.

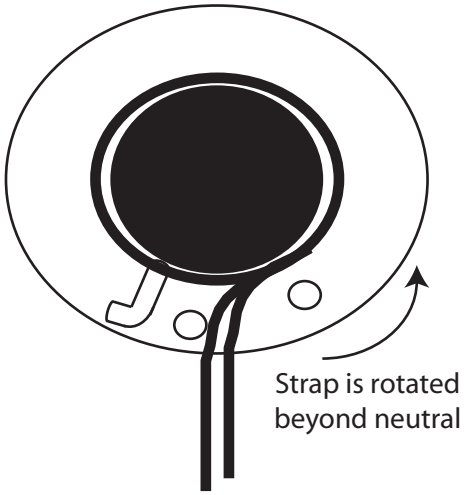
1. Open the door by pressing the open button.

2. Slowly loosen the 4 set screws on the counterweight winding hubs that tigthen to the door shaft.

3. As you loosen the set screws, the counterweight system will rotate itself to a neutral position.

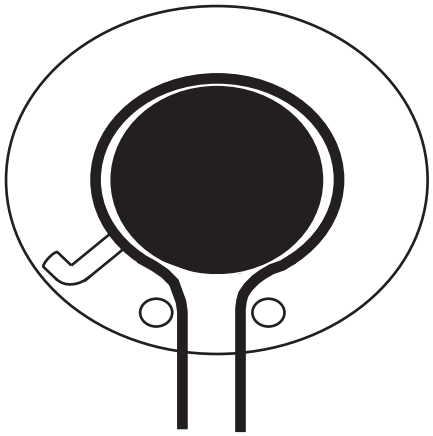
Examples

INCORRECT



Counterweight strap is partially wrapped around the shaft and is not in an unwrapped, neutral position.

CORRECT



Counterweight strap is not wrapped around shaft. Weights are hanging straight down and the strap is in the neutral position.

4. Once the counterweight strap is in the neutral position, tighten all the set screws on the winding hubs. These set screws need to be tightened considerably to avoid slippage. It is recommended to use a 3/8" 8-point socket designed for use on square head bolts.

STEP 26 - GUIDE TUBE INSTALL

26-1: Close the door so the weights are raised.

26-2: Slide PVC guide tube around the weight stack and slide the tube upward so the weights are contained in the tube and the tube is standing vertically. (FIG's. 26A & 26B)

26-3: Drill a 1/4" hole in the face of the door track and install the guide tube bracket as shown using a 1/4" bolt and nut. **Be sure to insert the bolt so the nut is on the outside of the track. (FIG. 26C)

FIG. 26A

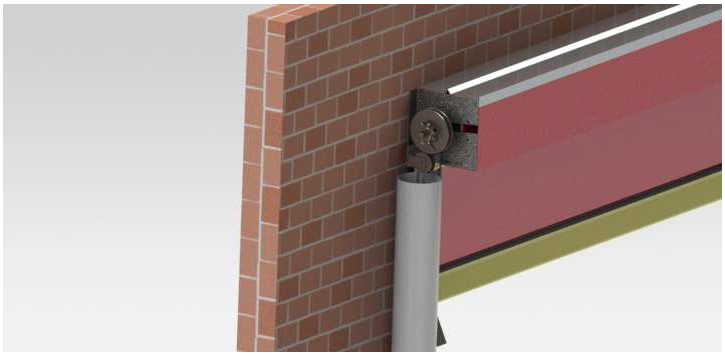


FIG. 26B

FIG. 26C

STEP 27 - MOTOR COVER INSTALL

27-1: Thread a 3/8" nut on the two outer mounting bolts located on the motor side bearing plate. (FIG. 27A)

27-2: Remove the front panel of the motor cover.

27-3: Lift the motor cover up and around the motor and align the slots in the mounting bracket with the mounting bolts that you threaded a nut onto. Push the motor cover onto the bolts until it is snug against the wall. (FIG. 27B)

STEP 27 - MOTOR COVER INSTALL (OPTIONAL)

27-4: Level the motor cover and fasten the mounting bracket to the mounting bolts using a large 1-1/2" washer, a 3/8" lock washer, and a 3/8" nut.

27-5: Drill a 1/4" hole through the side of the door track using the hole in the 90 deg mounting bracket as a guide. Fasten the bottom 90 deg bracket to the track using a 1/4" bolt and nut. (FIG. 27D)

27-5: Re-install the front panel on the motor cover.

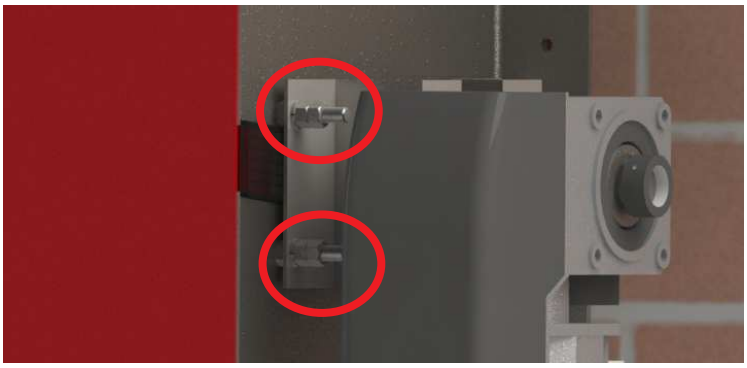


FIG. 27A

FIG. 27B

FIG. 27C

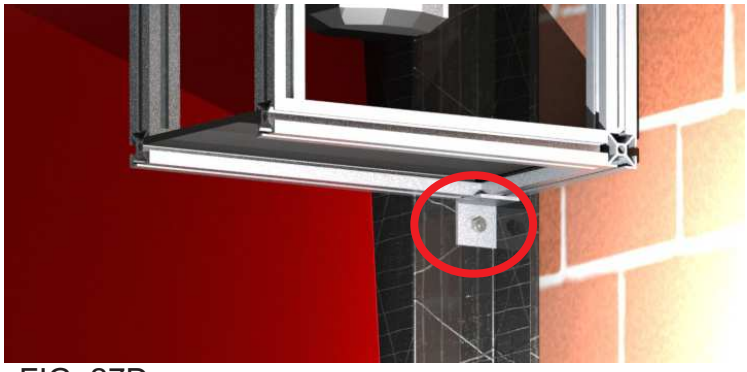


FIG. 27D

STEP 28 - STRAPEZE COVER INSTALL (OPTIONAL)

28-1: Lift strapeze cover up and around the strapeze assembly. (FIG. 28A)

28-2: Align the slots in the mounting bracket with the pre-installed bolts on the door bearing plate. (FIG. 28B)

28-3: Slide the strapeze cover onto the mounting bolts until the the front of the strapeze cover is flush with the front of the door assembly.

28-4: Reach underneath the strapeze cover and fasten the mounting bracket to the mounting bolts using a large 1-1/2” washer, a 3/8” lock washer, and a 3/8” nut. (FIG. 28C)

28-5: Level the strapeze cover and tighten the nuts.

28-6: Anchor the bottom corner 90 deg bracket on the strapeze cover to the wall using a concrete anchor or wood lag. (FIG. 28D)

****Please note that for figures 28B, C & D the black plastic panels have been removed from the image to better show the installation steps. These DO NOT have to be removed for installation.**

FIG. 28A

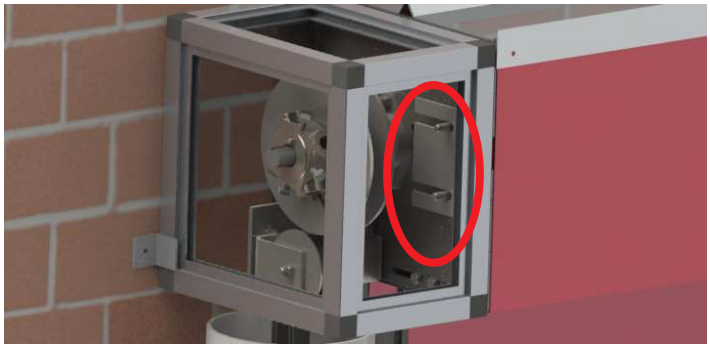


FIG. 28B

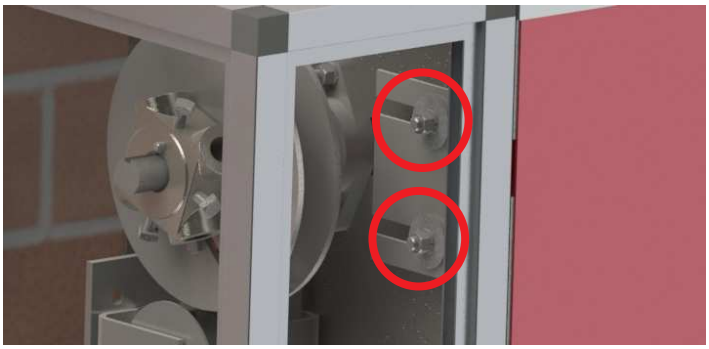


FIG. 28C

FIG. 28D

XRS Plus Model Wiring Instructions

1. Each control must be supplied by its own 20amp / 120v power. Wire this power directly to the 120v terminals at the bottom right hand of the terminal block.

2. 3~240v wiring from control box to motor must be minimum 12AWG / Stranded wire. This wire is not included with the opener system and must be supplied by others.

3. Low voltage wiring is pre-wired to control box but may be extended if necessary. See wiring schematic for wire placements.

4. All high voltage input and output wiring MUST BE INSTALLED BY A LICENSED ELECTRICIAN.

5. Photo eye interrupt wiring. **OPTIONAL**
   - Wiring the photo eyes in this manner will disable the photo eyes when the door is fully closed. This does not affect the normal operation of the photo eyes. If the door is in transit, the photo eyes will still reverse the door. This is simply to prevent a closed door from being opened by a blocked photo eye.

   - The wiring instructions for this are shown on the wiring schematic (Orange and Red wires from the opener limit assembly).

   - If this feature is used, the outer Green Limit Cam (3rd from wall) must be matched to the inner White Limit Cam (2nd from wall) so both cams are pushing in their respective switches when the door is closed.

   - If you need the photo eyes to open the door even if the door is closed, you can bypass this feature by wiring the white wire from the receiver photo eye directly to the open terminal on the terminal block.

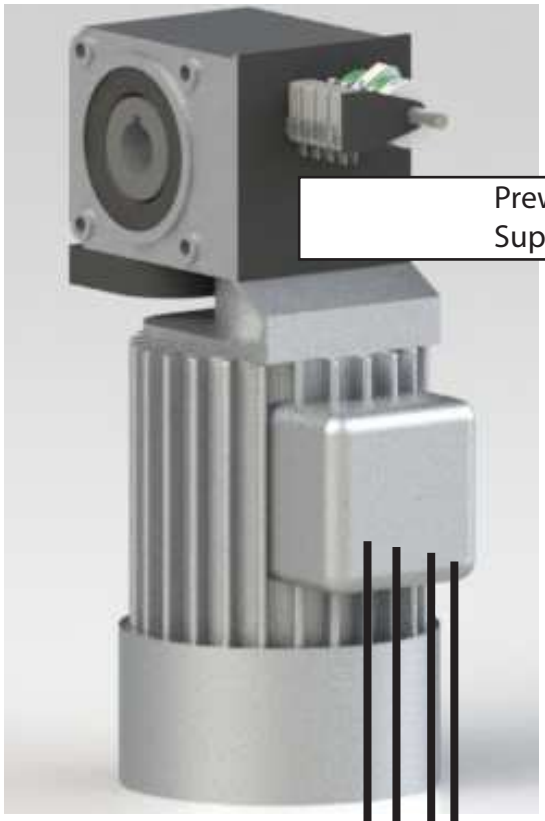
6. Accessory Contacts
   - A separate set of N/O & N/C contacts are available to provide a door position indication to an outside source such as a car wash controller. If the car wash controller needs to know the position of the door, use the following wires:

     - Blue (Common), Brown (N/O), Yellow (N/C)

   - If this feature is used, the outer White Limit Cam (4th from wall) will need to be matched to either the inner Green Limit Cam (To signal door is open) or the inner White Limit Cam (To signal door is closed).

XRS Plus Model Wiring Schematic

(See attached instructions for additional information)



Prewired "Pigtail"
Supplied By Airlift

**Yellow, Blue, Brown, Red, & Orange Wires are only used when additional inputs are required. If additional inputs regarding door position are needed please contact our technical support department for wiring instructions.

Green To Ground

Black To "W"

White To "V"

Red To "U"

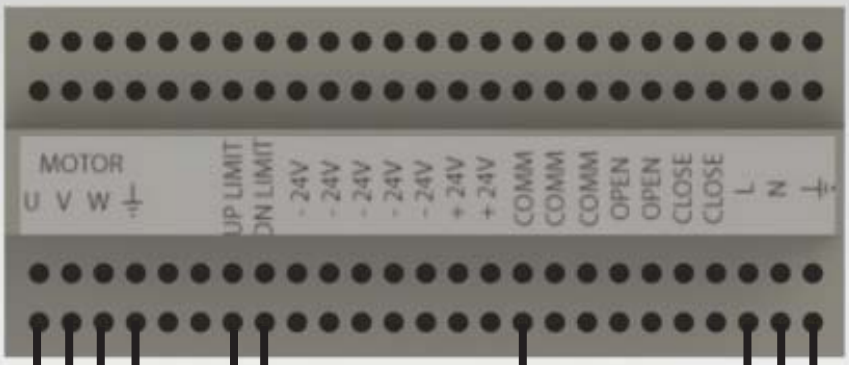
Green To "UP Limit"

Black To "DN Limit"

White To COMMON

Terminal Block in Control Box

Please hook only one wire per terminal



Motor Wiring Must Be Minimum 12ga Stranded Wire **Supplied By Others**

Red

White

Black

Green

120v Power requires 20amp circuit per opener

120v Ground

120v Neutral

120v Hot

Minimum 12ga Wire **Supplied By Others**

Banner Infrared Safety Eyes