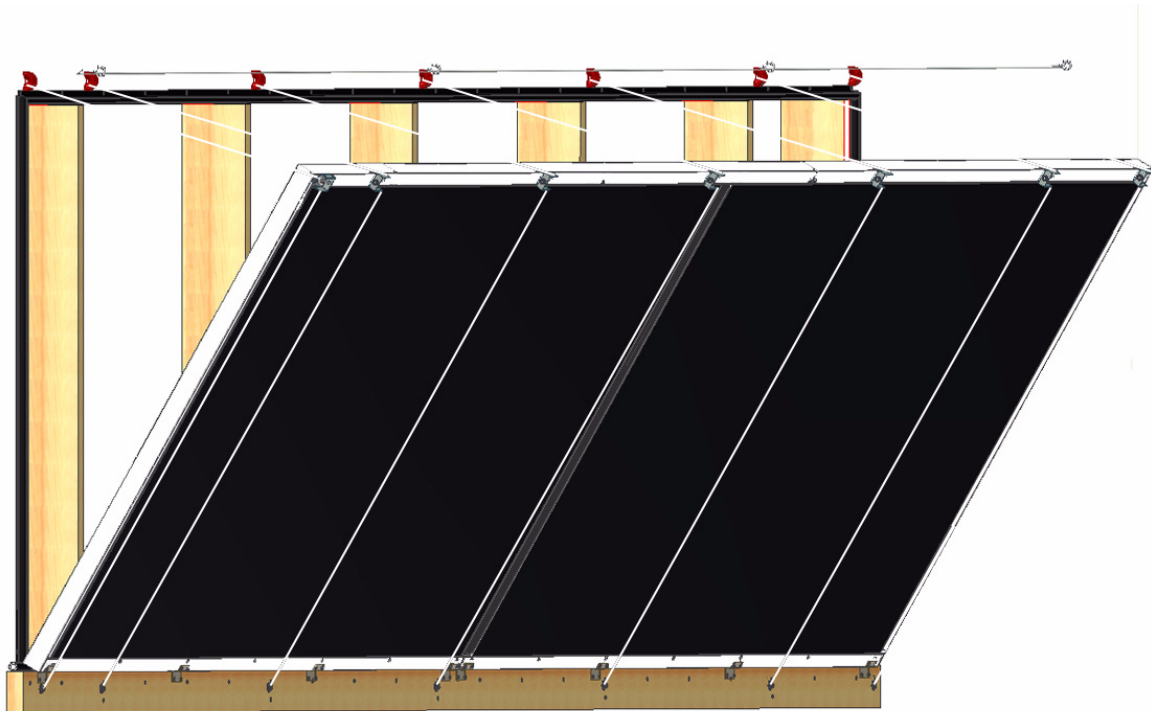


Tunnel Door

Installation Instruction Manual



Chore-Time Warranty

Chore-Time Equipment ("Chore-Time") warrants each new Chore-Time product manufactured by it to be free from defects in material or workmanship for one year from and after the date of initial installation by or for the original purchaser. If such a defect is found by the Manufacturer to exist within the one-year period, the Manufacturer will, at its option, (a) repair or replace such product free of charge, F.O.B. the factory of manufacture, or (b) refund to the original purchaser the original purchase price, in lieu of such repair or replacement. Labor costs associated with the replacement or repair of the product are not covered by the Manufacturer.

Conditions and Limitations

1. The product must be installed by and operated in accordance with the instructions published by the **Manufacturer or Warranty will be void.**
2. Warranty is void if **all components** of the system are not original equipment supplied by the **Manufacturer.**
3. This product must be purchased from and installed by an authorized distributor or certified representative thereof or the Warranty will be void.
4. Malfunctions or failure resulting from misuse, abuse, negligence, alteration, accident, or lack of proper maintenance shall not be considered defects under the Warranty.
5. This Warranty applies only to systems for the care of poultry and livestock. Other applications in industry or commerce are not covered by this Warranty.

The **Manufacturer** shall not be liable for any **Consequential or Special Damage** which any purchaser may suffer or claim to suffer as a result of any defect in the product. "**Consequential**" or "**Special Damages**" *as used herein include, but are not limited to, lost or damaged products or goods, costs of transportation, lost sales, lost orders, lost income, increased overhead, labor and incidental costs and operational inefficiencies.*

THIS WARRANTY CONSTITUTES THE MANUFACTURER'S ENTIRE AND SOLE WARRANTY AND THIS MANUFACTURER EXPRESSLY DISCLAIMS ANY AND ALL OTHER WARRANTIES, INCLUDING, BUT NOT LIMITED TO, EXPRESS AND IMPLIED WARRANTIES AS TO MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSES SOLD AND DESCRIPTION OR QUALITY OF THE PRODUCT FURNISHED HEREUNDER.

Chore-Time Distributors are not authorized to modify or extend the terms and conditions of this Warranty in any manner or to offer or grant any other warranties for Chore-Time products in addition to those terms expressly stated above. An officer of CTB, Inc. must authorize any exceptions to this Warranty in writing. The Manufacturer reserves the right to change models and specifications at any time without notice or obligation to improve previous models.

Effective: **October 2009**

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Phone (574) 658-4101 • Fax (877) 730-8825
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Thank You

The employees of CTB Inc. would like to thank you for your recent Chore-Time purchase. If a problem should arise, your Chore-Time distributor can supply the necessary information to help you.

Contents

Topic	Page	User
Chore-Time Warranty	2	C,D
General	4	I,C
Support Information	4	
Safety Information	4	I,C
DANGER: Electrical Hazard	4	
Tools Needed	4	I
Installation Planning	5	I
Framed Opening	5	
Installation	6	I
Top and Bottom Chalklines and 2 x 4 Door Support	6	
Black P-Seal Installation	7	
Cable Suspension (Cable Version Only)	8	
Rope Screw Hook (Rope Version Only)	9	
Door Installation	10	
Adding Door Sections	11	
Installation of Split Bolts for Rope Attachments (Rope Version only)	12	
Cable Tensioner and Cable Installation (Cable Version Only)	13	
Installing Remaining Door Sections	14	
Last Door Section (Continued)	15	
Door Suspension Installation	16	
Installing Counter Weight	17	
Winch Installation	18	
Rope Attachment	19	
Cable Attachment	20	
Final Door Adjustment	21	
Itemized Parts	22	I,C
Part Numbers	23	I,C
Itemized Parts (Individual Doors)	24	I,C

General

Support Information

The Chore-Time Tunnel Door is to be used to control the airflow in a Tunnel Ventilated poultry house. Using this equipment for any other purpose or in a way not within the operating recommendations specified in this manual will void the warranty and may cause personal injury.

This manual is designed to provide comprehensive planning, installation, safety, operation, and parts listing information. The Table of Contents provides a convenient overview of the information in this manual. The Table of Contents also specifies which pages contain information for the sales personnel, installer, and consumer (end user).

Safety Information

Caution, Warning and Danger Decals have been placed on the equipment to warn of potentially dangerous situations. Care should be taken to keep this information intact and easy to read at all times. Replace missing or damaged safety decals immediately.

Using the equipment for purposes other than specified in this manual may cause personal injury and/or damage to the equipment.

DANGER: Electrical Hazard

Disconnect electrical power before inspecting or servicing equipment. Ground all electrical equipment for safety. All electrical wiring must be done by a qualified electrician in accordance with local and national electric codes. Ground all non-current carrying metal parts to guard against electrical shock. With the exception of motor overload protection, electrical disconnects and over current protection are not supplied with the equipment.



Tools Needed

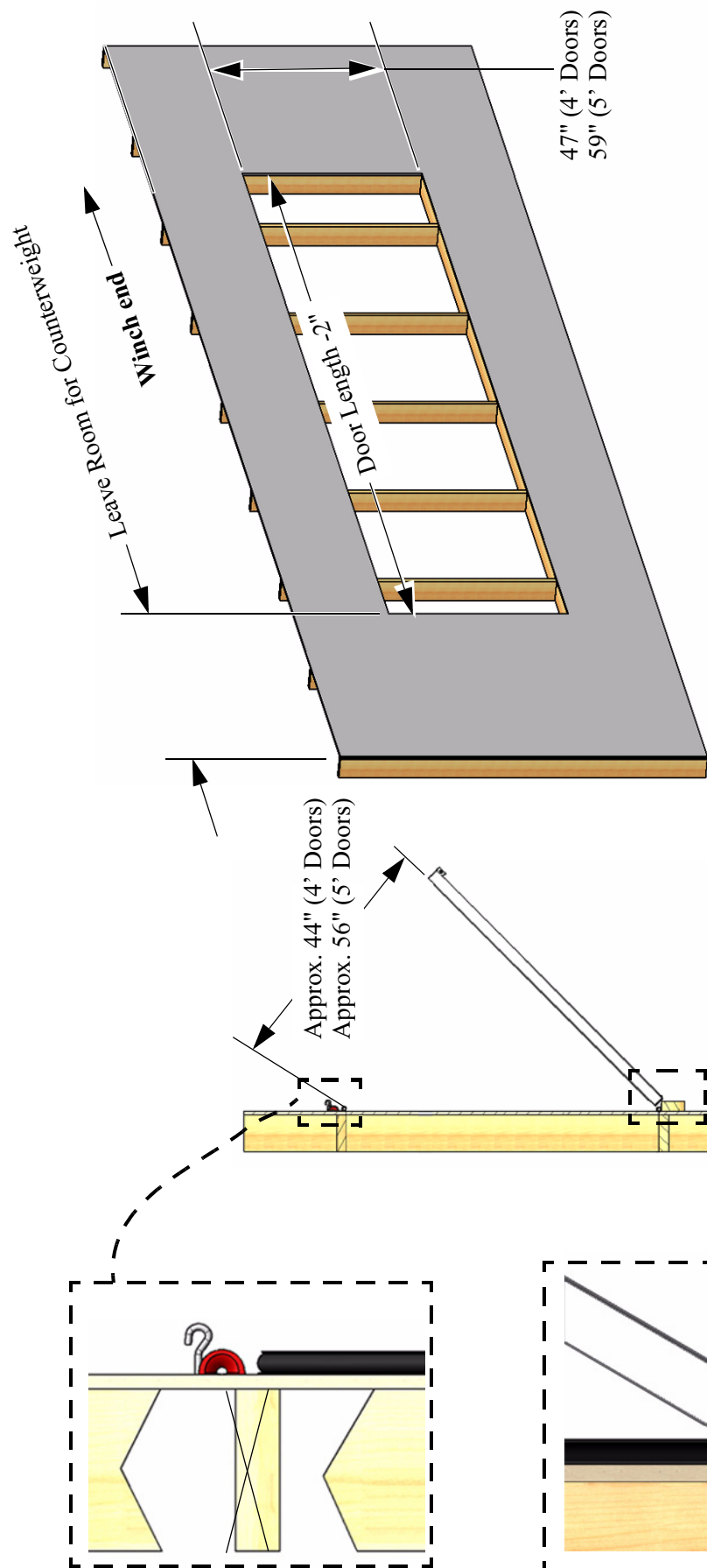
Tape Measurer
Chalkline
Electric Drill
 -Square Driver Bit
 -3/8" Hex Socket
 - Screwhook Driver Bit
 -1/2" Drill Bit (For Doors with Rope Suspension)
Hammer
Knife
Tin Snips

Installation Planning

Framed Opening

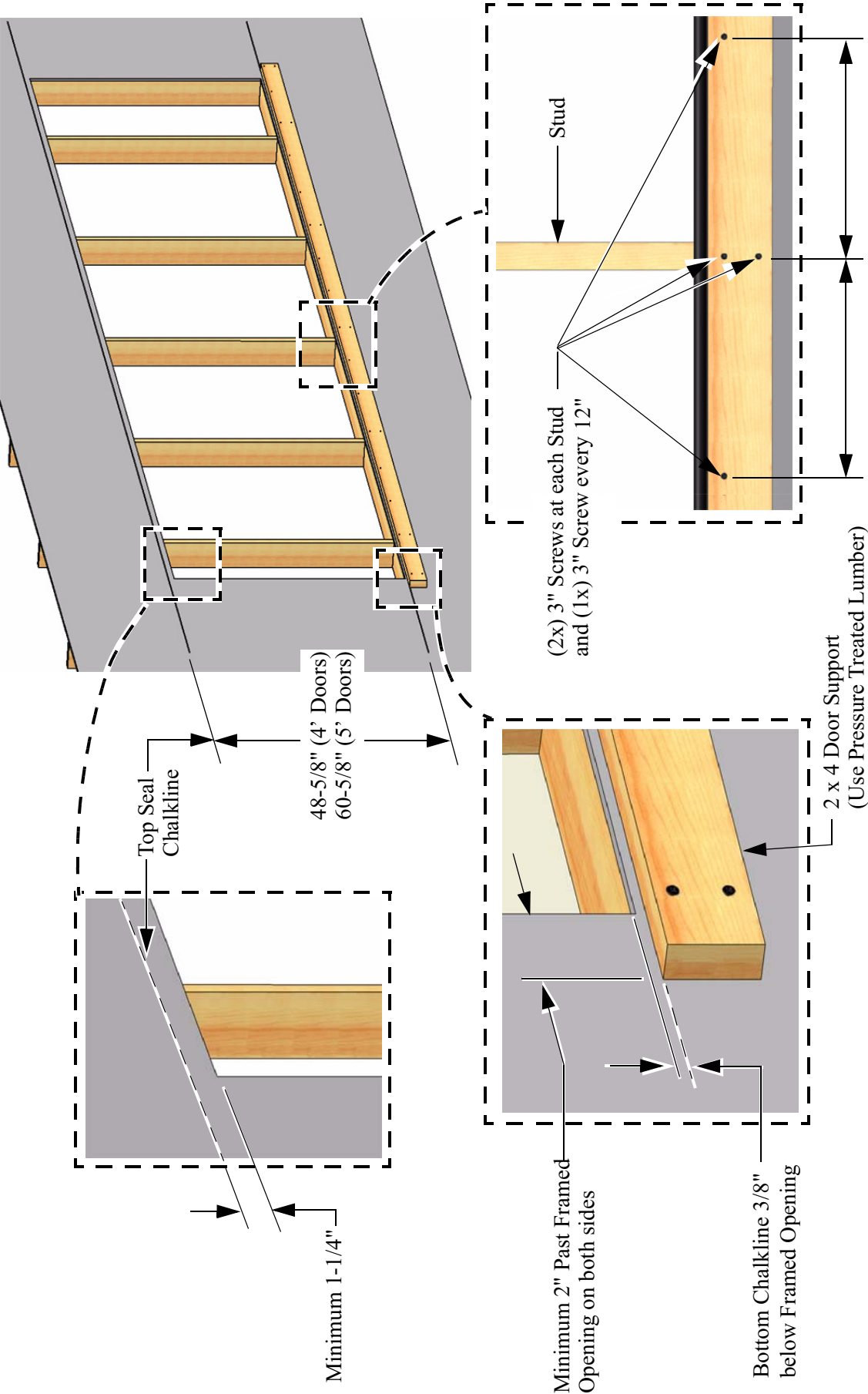
Winch Capacity- approximately 20 lbs/ft of Door length

Wall should be flat within 1/8" per 4' to ensure a good seal around the Doors

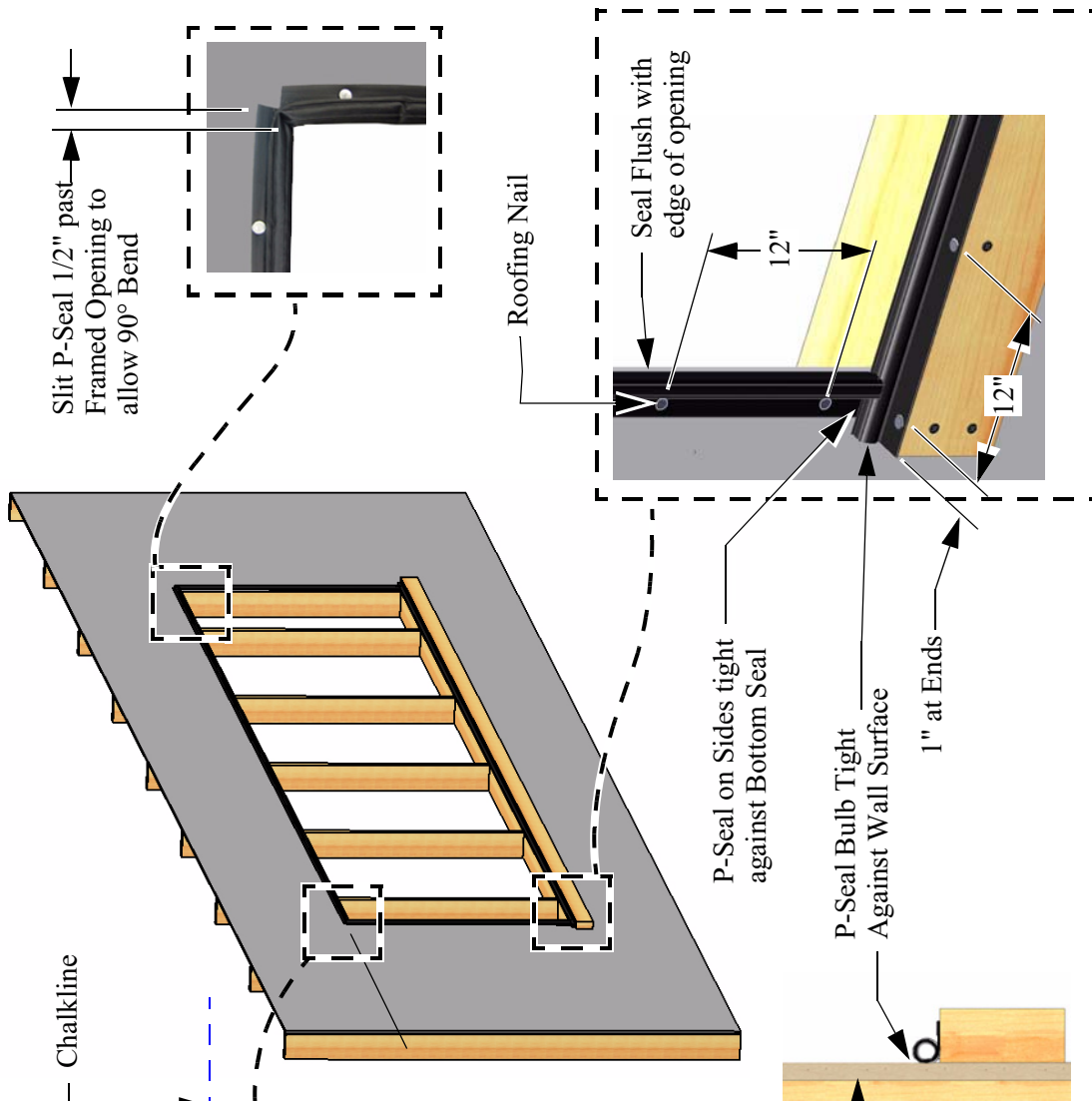
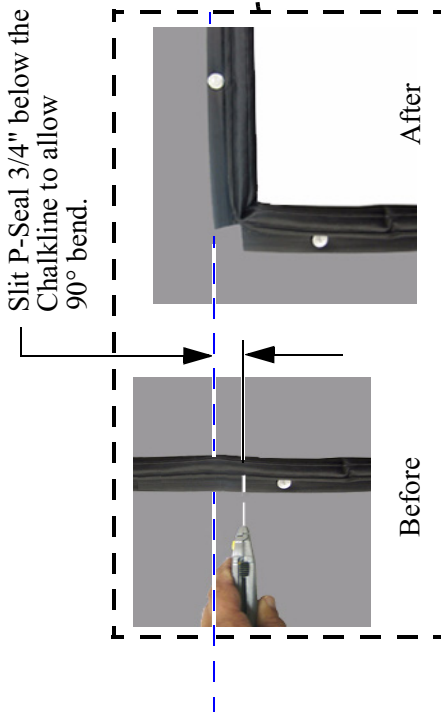


Installation

Top and Bottom Chalklines and 2 x 4 Door Support



Black P-Seal Installation



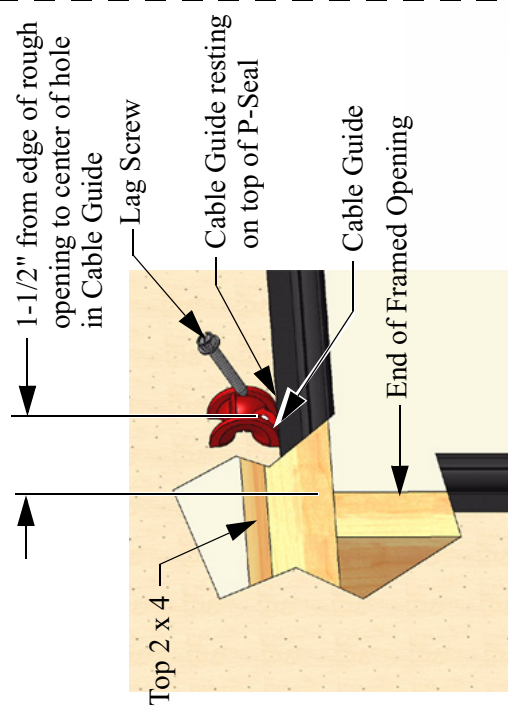
Step 1. Black P-Seal- Use Roofing Nails or Screws to attach Black P-Seal as shown. Space Nails/ Screws 12" apart except at the ends as shown.

Step 2. Corners- Make Slits in the P-Seal Flange as shown to allow for bending 90° at the top Corners.

Tunnel Doors may be installed with either Rope or Cable Suspension
Cable Suspension (Cable Version Only)

Counter weight End

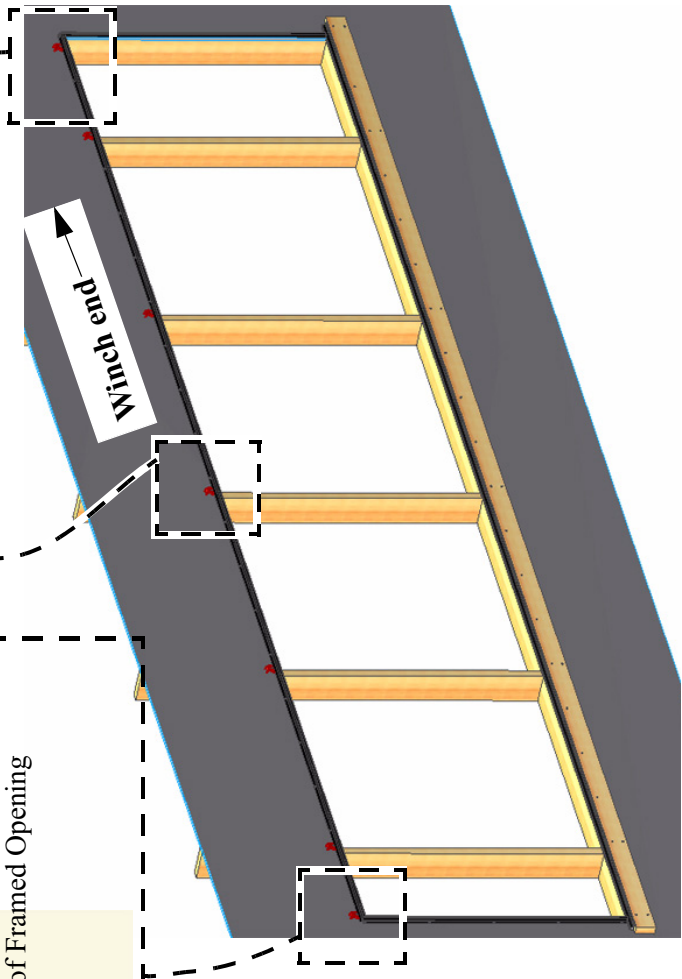
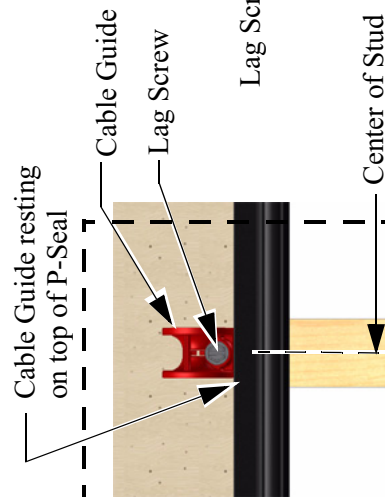
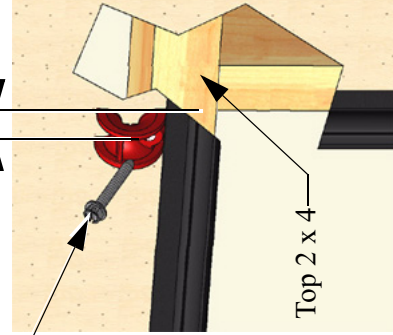
At the End of the Doors Angle the 1/4 x 1-3/4 Lag Screw down into the Top 2x4 as shown.



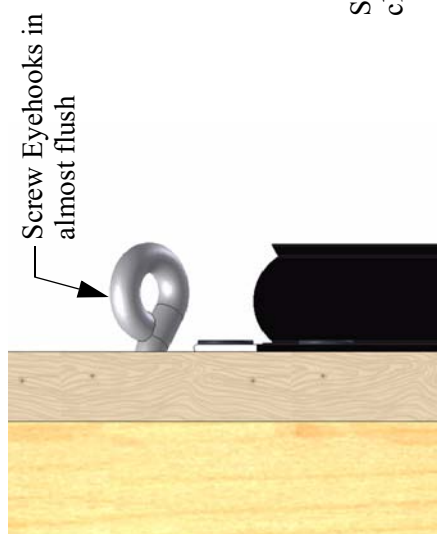
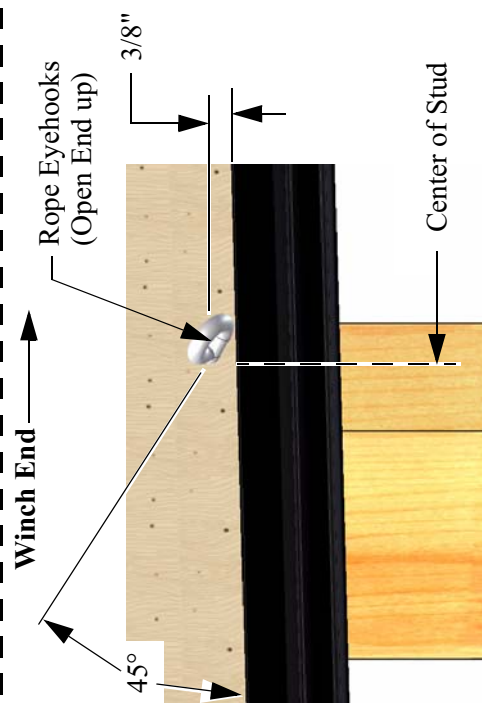
Winch End

At the End of the Doors Angle the 1/4 x 1-3/4 Lag Screw down into the Top 2x4.

1/4" from Rough Opening to center of hole in Cable Guide.

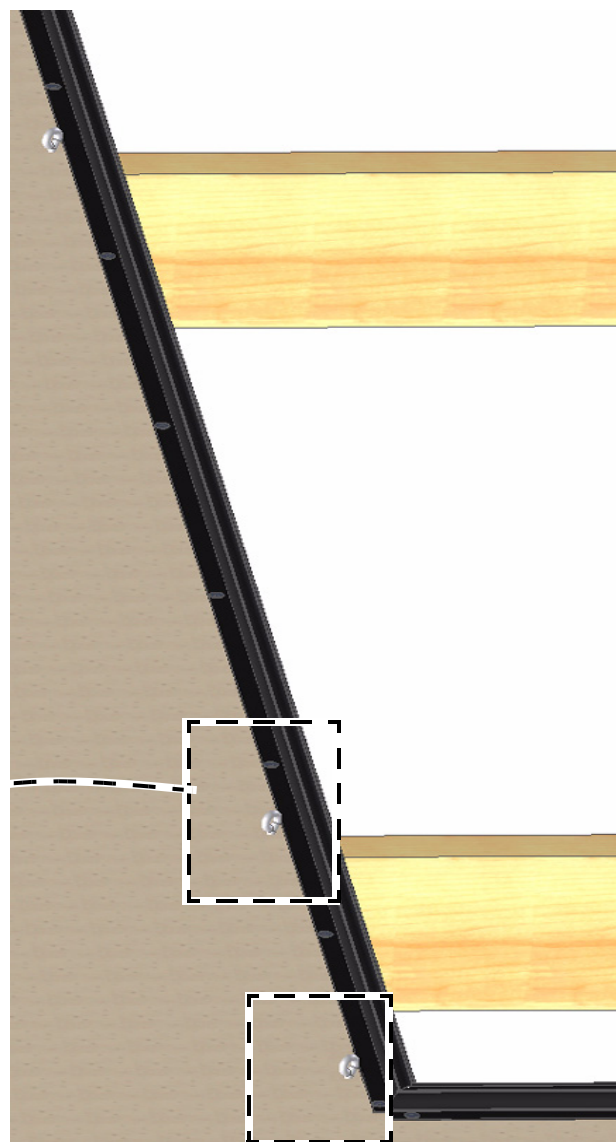
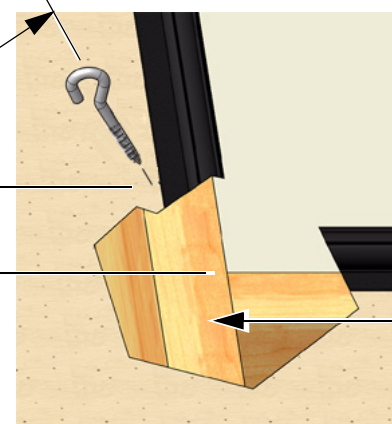


Rope Screw Hook (Rope Version Only)

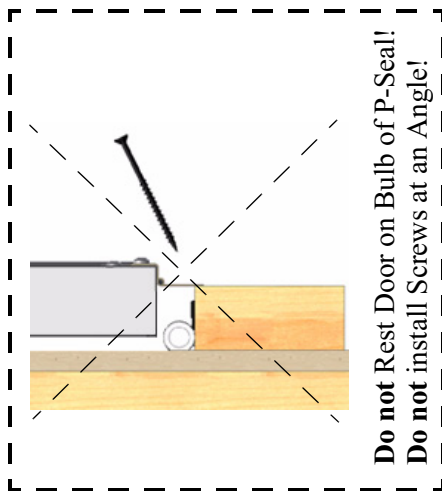
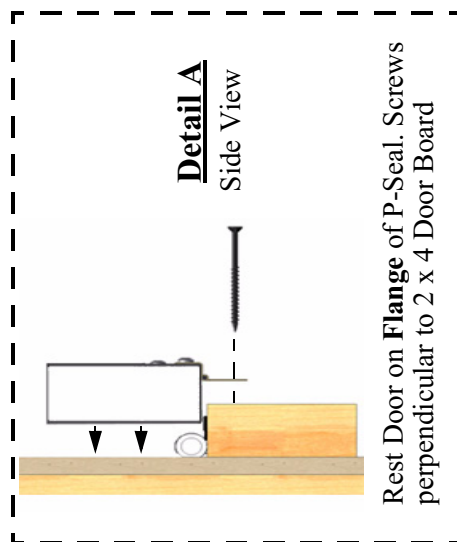
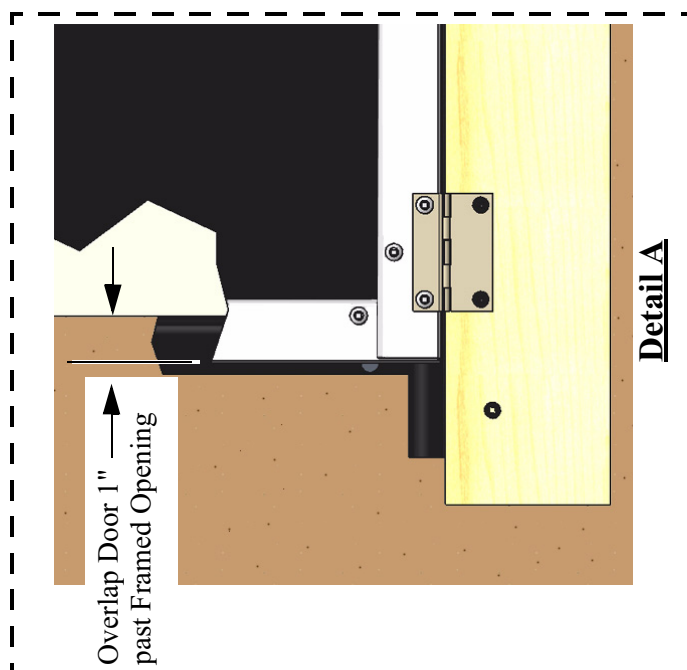


At both ends of the system, if there is no Stud, angle in the Screw Hooks 1-3/4" from the edge of the Framed Opening as shown.

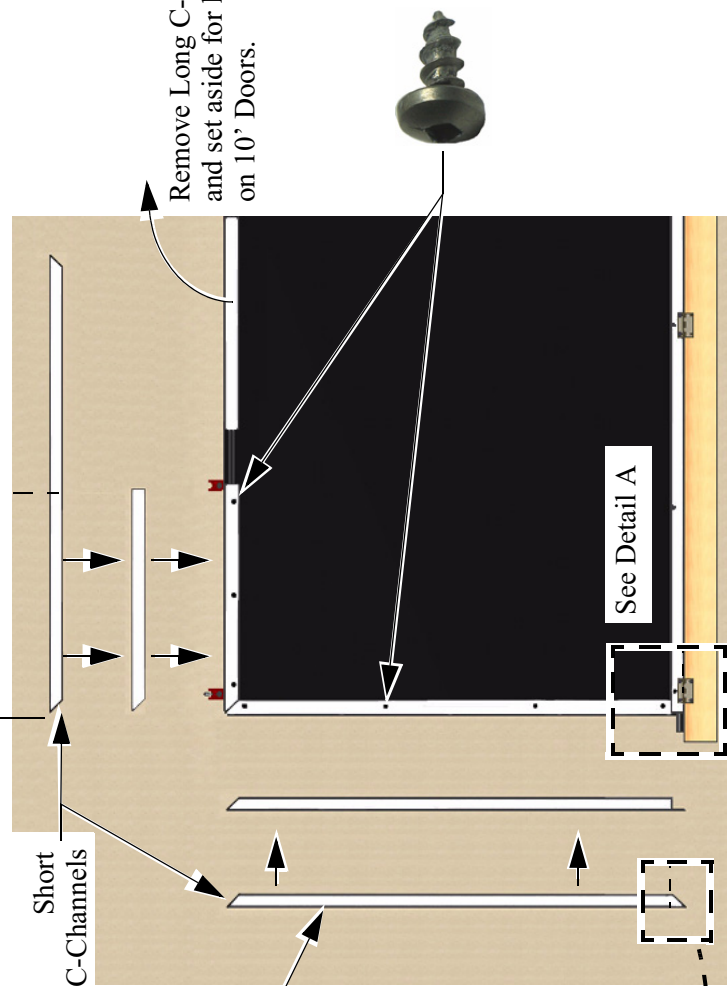
1-3/4" Angled down into 2x4



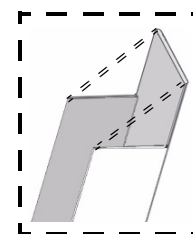
Door Installation



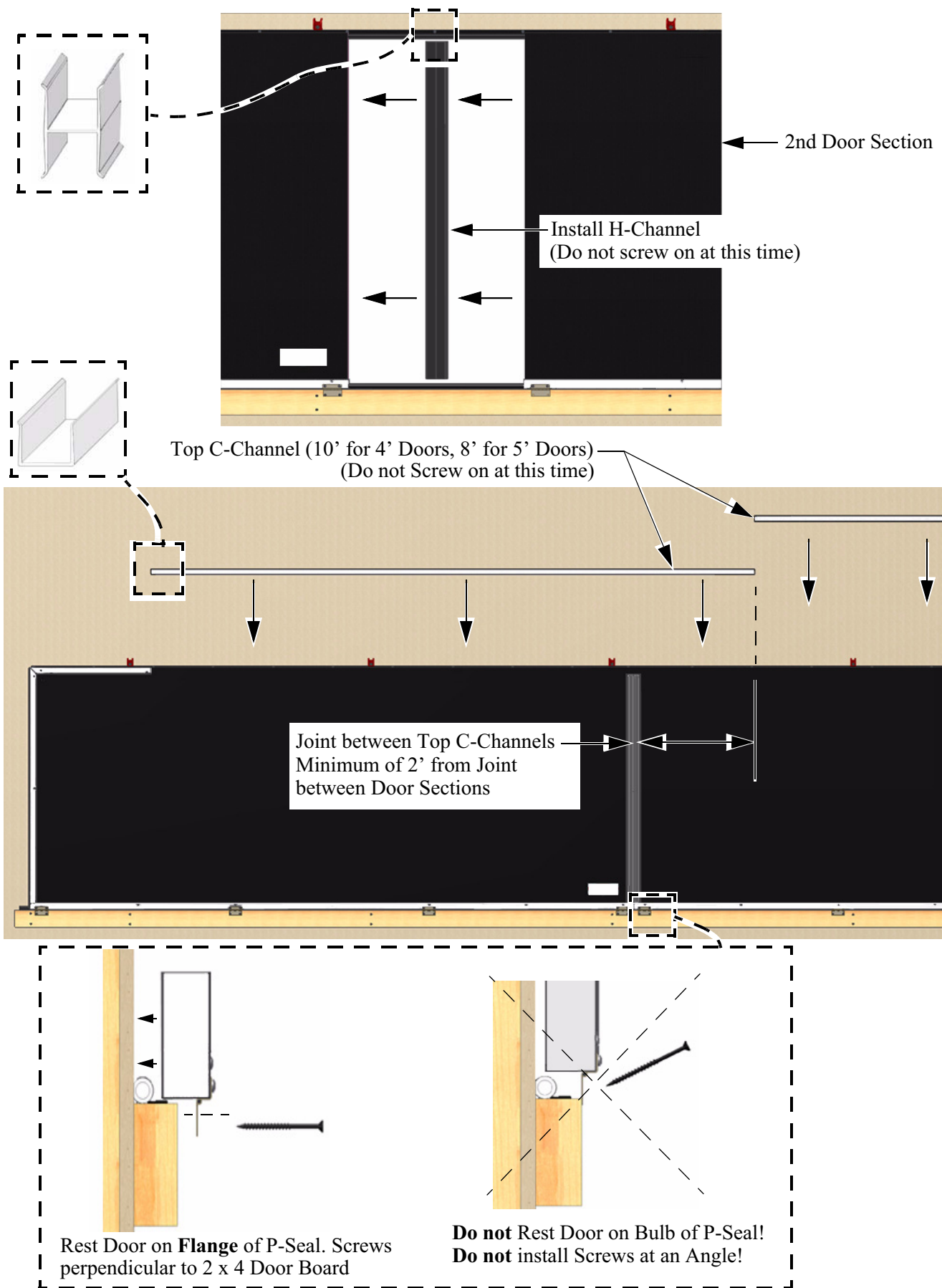
Cut a C-Channel in half and fasten it to the 1st Door with 1/2" Screws as shown.



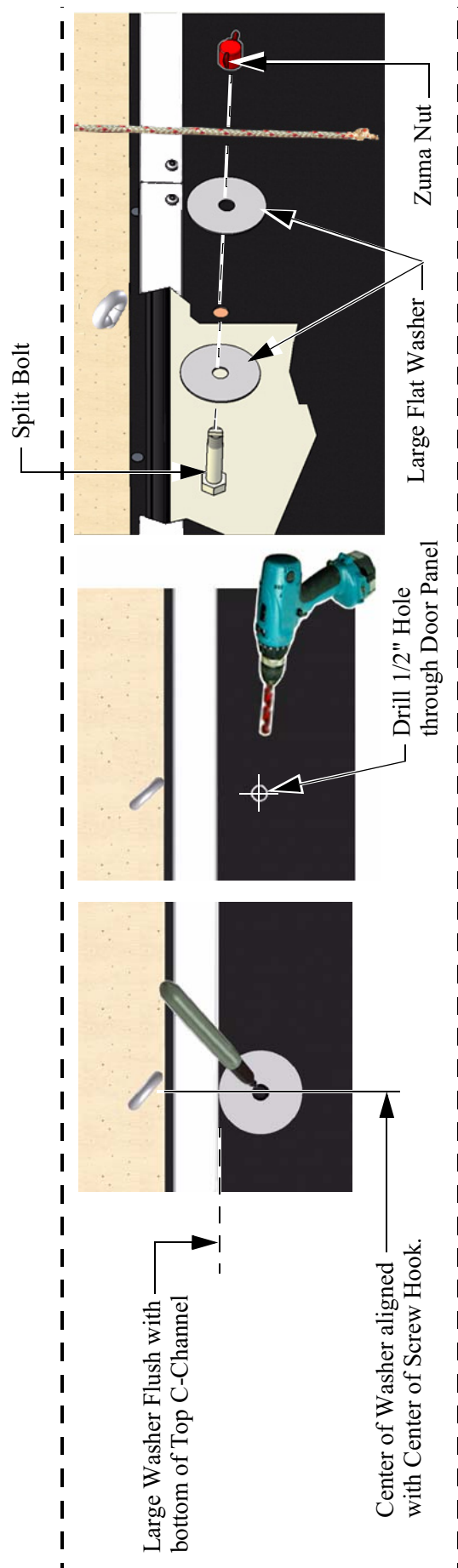
Notch one end of end C-Channel. Attach it to the End of the 1st Door with 1/2" Screws.



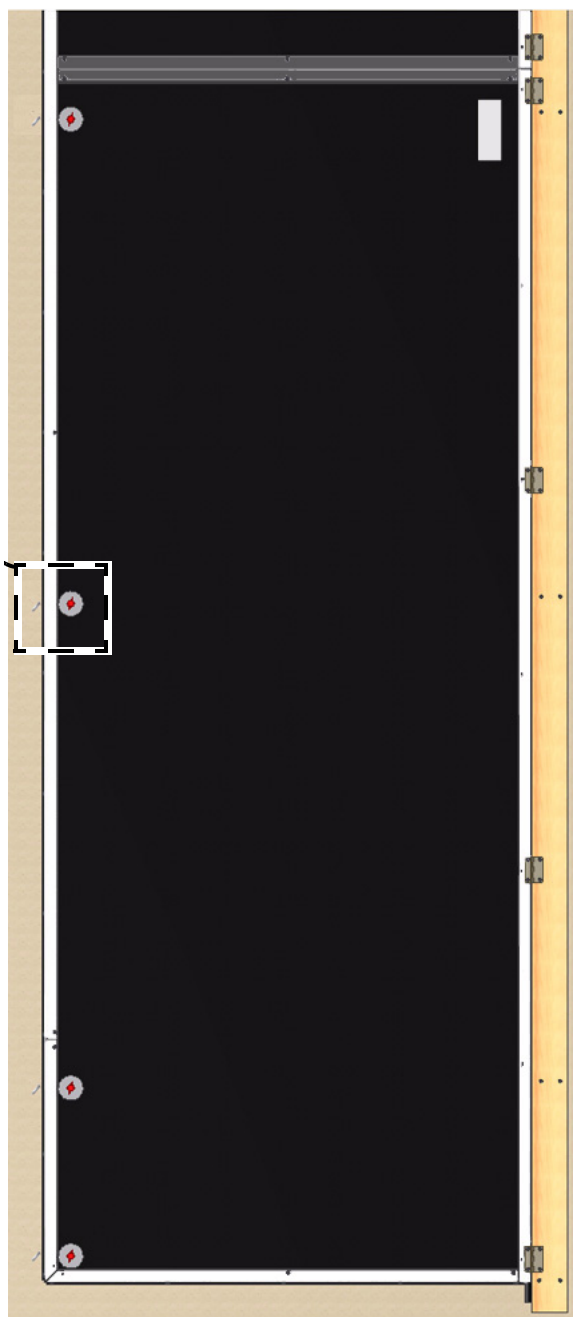
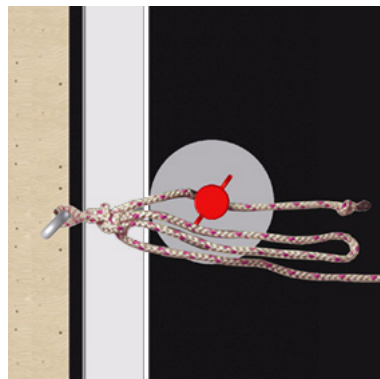
Adding Door Sections



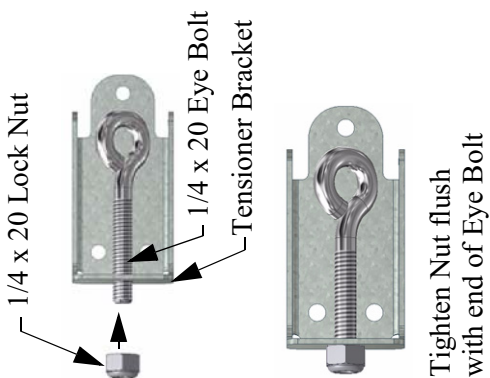
Installation of Split Bolts for Rope Attachments (Rope Version only)



Cut Rope to length...
 60" (4' Doors)
 72" (5' Doors)
 Tie off Doors at least every 30' while assembly is in process.

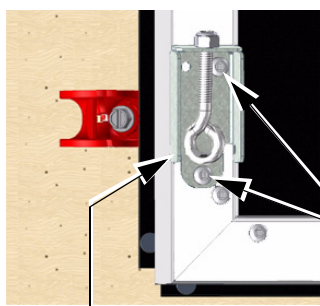


Cable Tensioner and Cable Installation (Cable Version Only)



Step 1

Door Ends

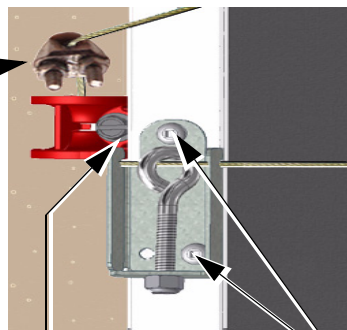


Notch in Tensioner lined up with edge of Cable Guide. Top of Tensioner Flush with Top of Top Channel.

(2x) #10 x 1/2" Screw

Step 2

Use a Cable Clamp every 30' to hold up the Doors during assembly.

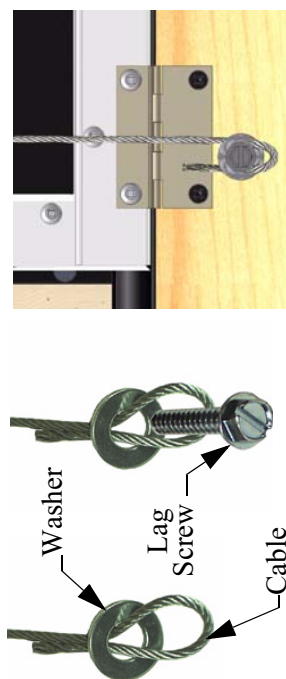


Thread the Cable through the notches in the Tensioner, through the Eye Bolt, and through the Cable Guide.

(2x) #10 x 1/2" Screw

Step 4

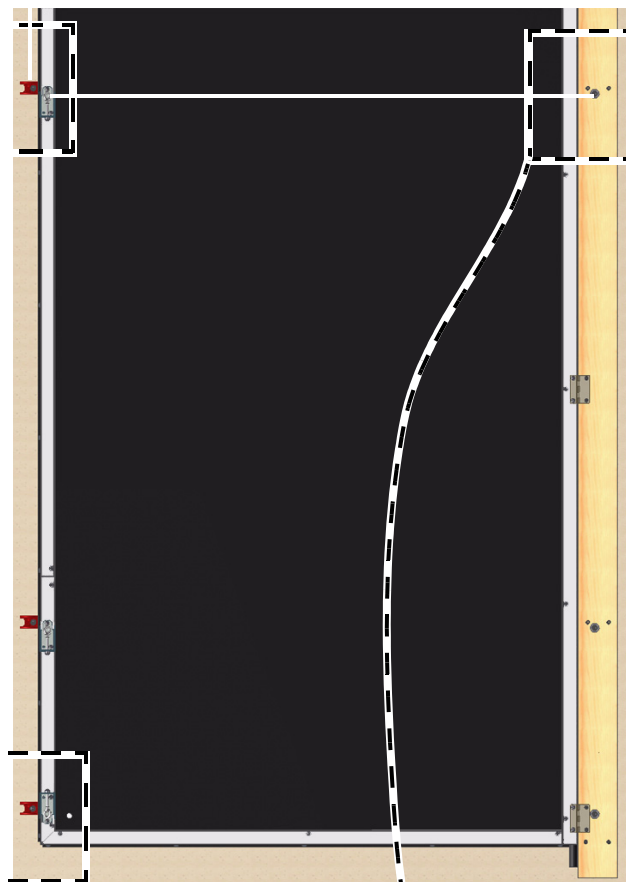
Winch End



Attach a Cable to the 2 x 4 Door Support with a Lag Screw as shown directly below the notch in each Cable Guide. Cable Length as follows:

4' Doors = 9' Cable
5' Doors = 10' Cable

Step 3



Installing Remaining Door Sections

Step 1. Cut the last Door and Bottom C-Channel off 1" past Black P-Seal Bulb. Remove the last Hinge and Re-attach it as shown if necessary.

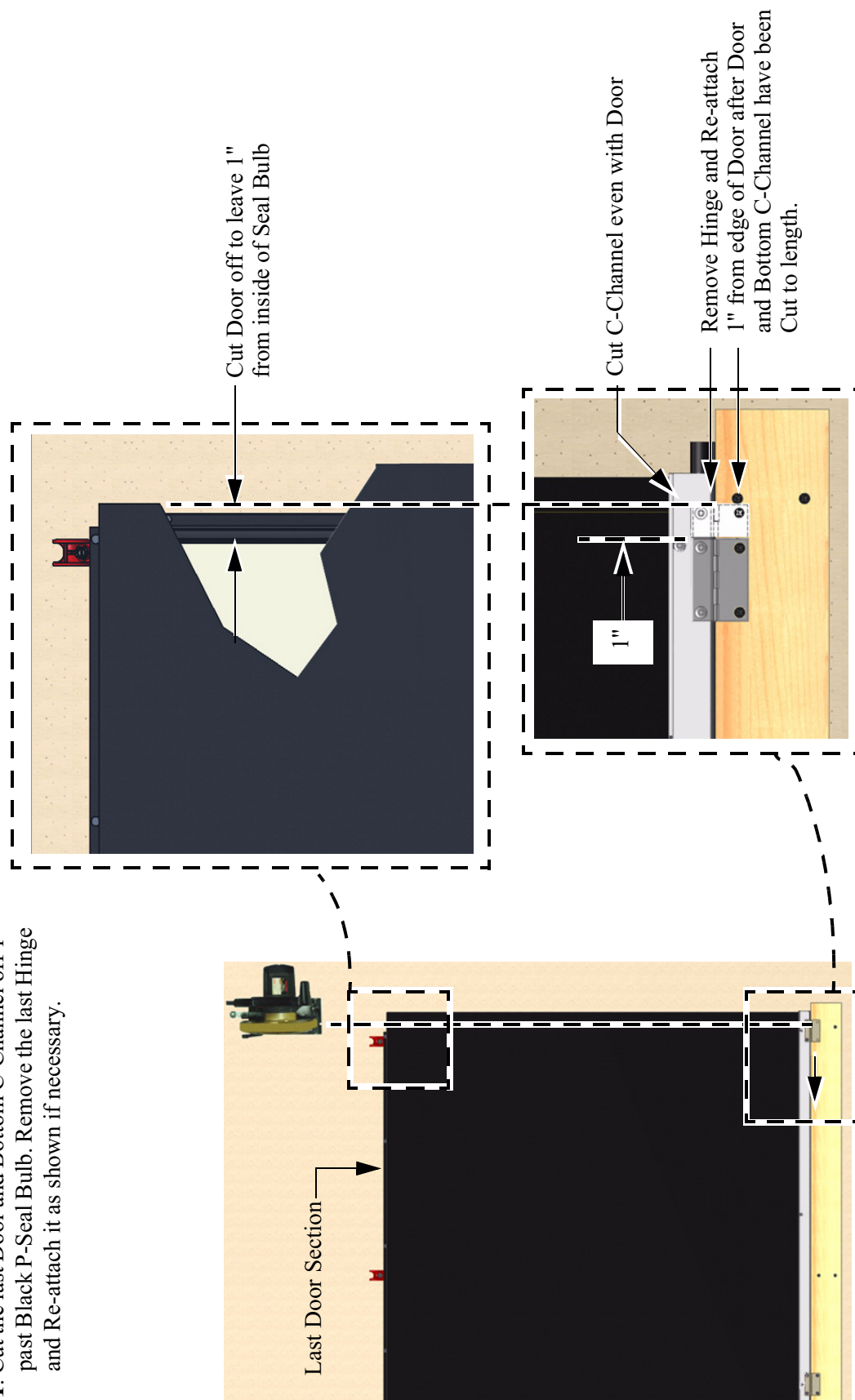


Figure 10. Installing last Door Section

Last Door Section (Continued)

- Step 2.** Attach all of the Top C-Channels and H-Channels with 1/2" Screws as shown.
- Step 3.** Miter and Attach the last Top C-Channel with 1/2" Screws.
- Step 4.** Notch the end, and attach it to the end of the last Door with 1/2" Screws

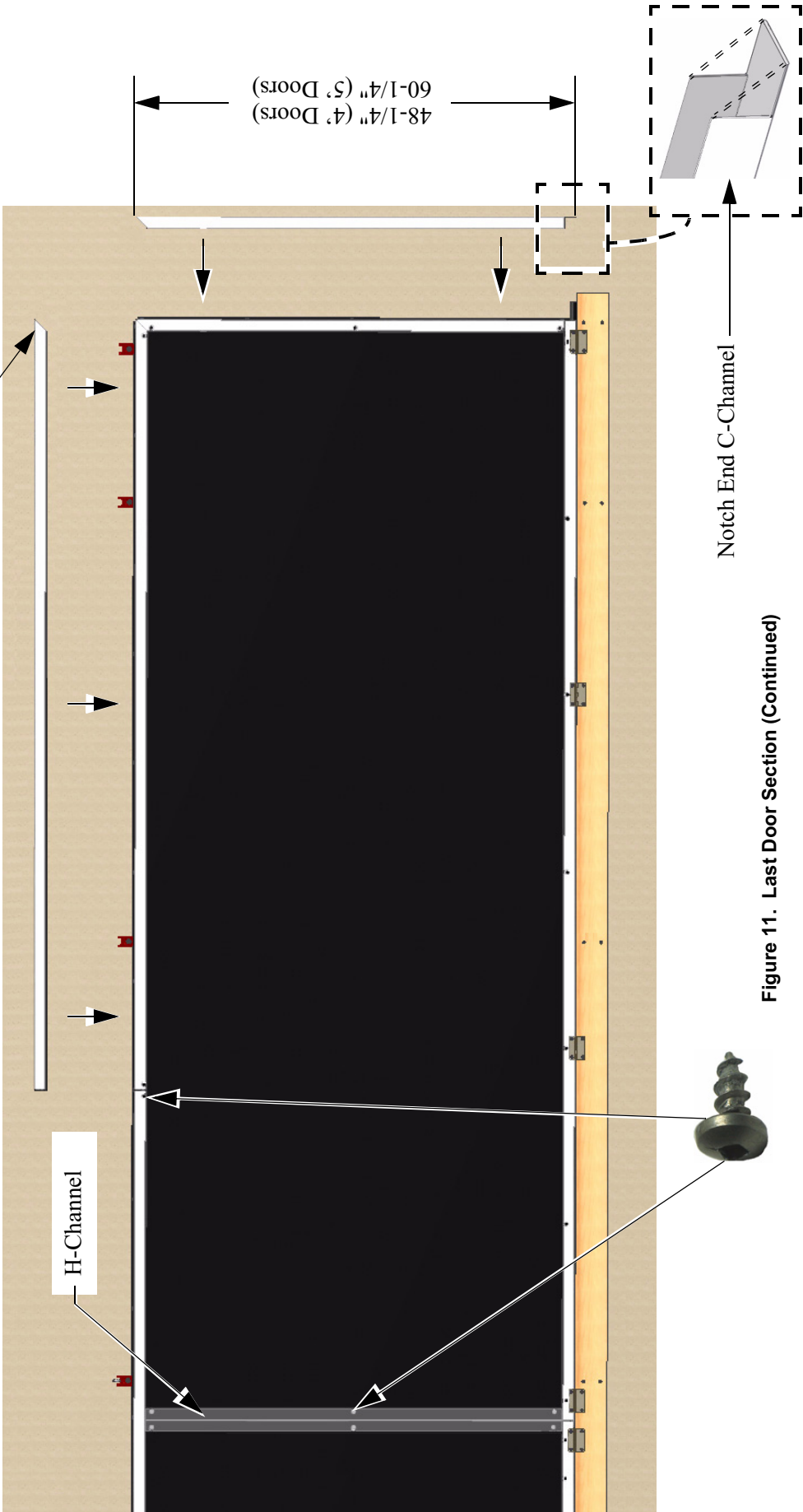
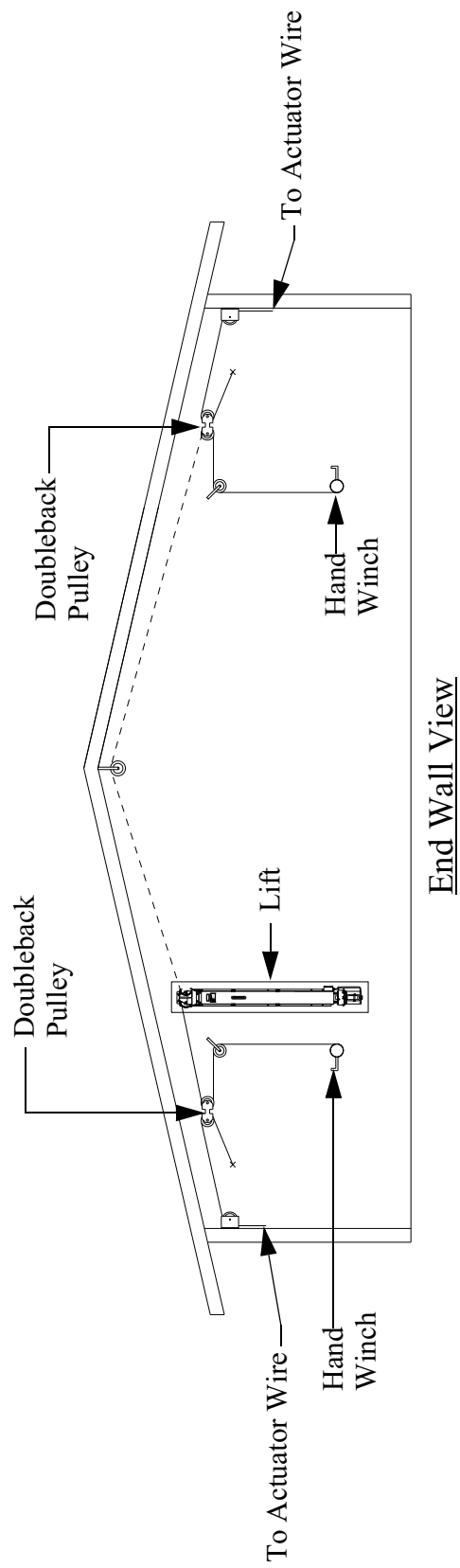


Figure 11. Last Door Section (Continued)

Winch Installation



Door Suspension Installation

3/4"

Screw hook

Install Screw-hooks 3/4" above the lower Screw-hooks at every other drop starting with the 2nd drop opposite the Winch.

Approx. 1-1/2"

Screw-hooks

Install Screw-hooks flush with the top of the Cable Guides at every other drop starting with the 2nd drop opposite the Winch end.

Step 1. Rope Version

Step 1. Cable Version

46" Min. for 4' Doors
58" Min. for 5' Doors

Counterweight installation shown on next page.

Winch End

String Actuator Wire through the Eyehooks from one end of the System to the other. At the Winch End extend the Wire past the edge of the Door

Rope Version.

Step 2.

Cable Version

Squeeze the Screw-hooks closed.

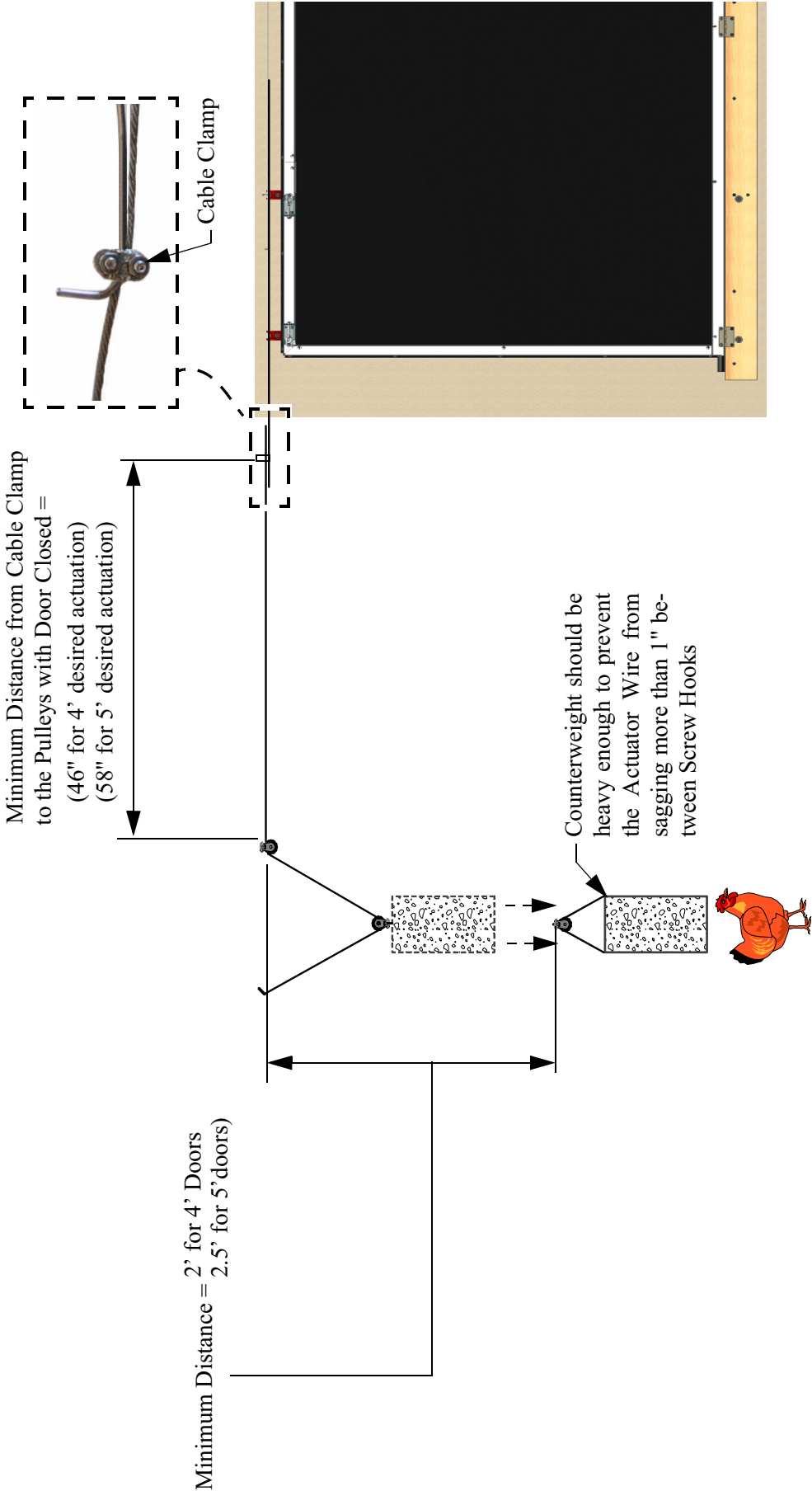
Step 3.

Bend the Actuator Wire 1/2", 90° at both ends

Attach Main Cable to the Actuator Wire with Three Cable Clamps alternated 180° as shown

Step 4.

Installing Counter Weight

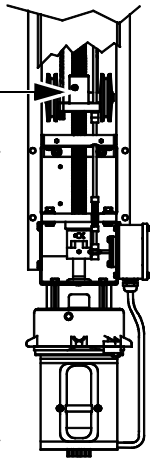


Rope Attachment

Step 1. Use the Hand Winch to pre-stretch the Main Cable before installing Rope drops.

Step 2. Run Lift to the fully closed position.

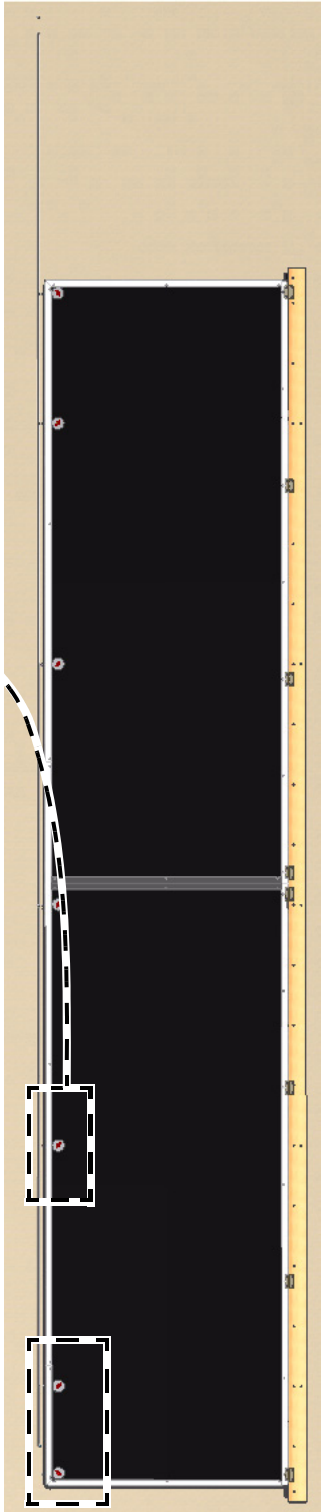
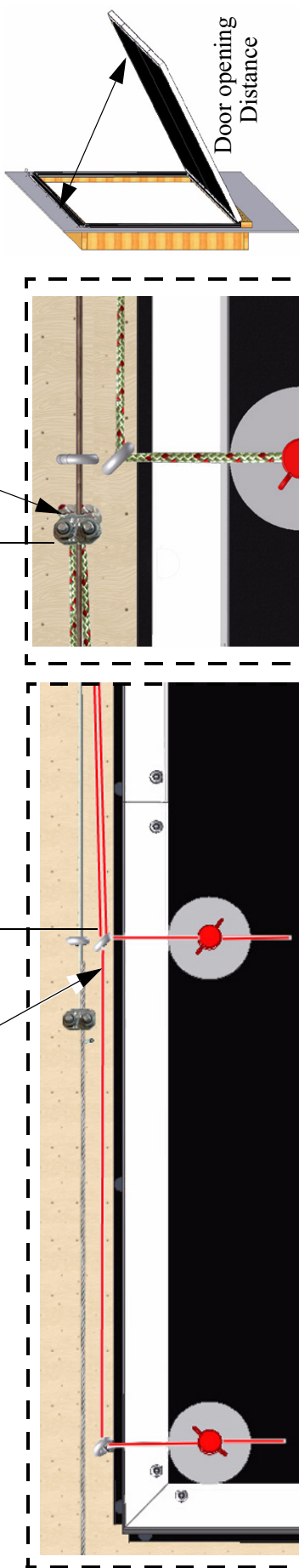
Lift in Closed Position
(Brass Nut toward Motor)



Feed Rope through skipped
Screw Hooks

Minimum = 44" (4' doors)
56" (5' doors)

Tie knots in Ropes

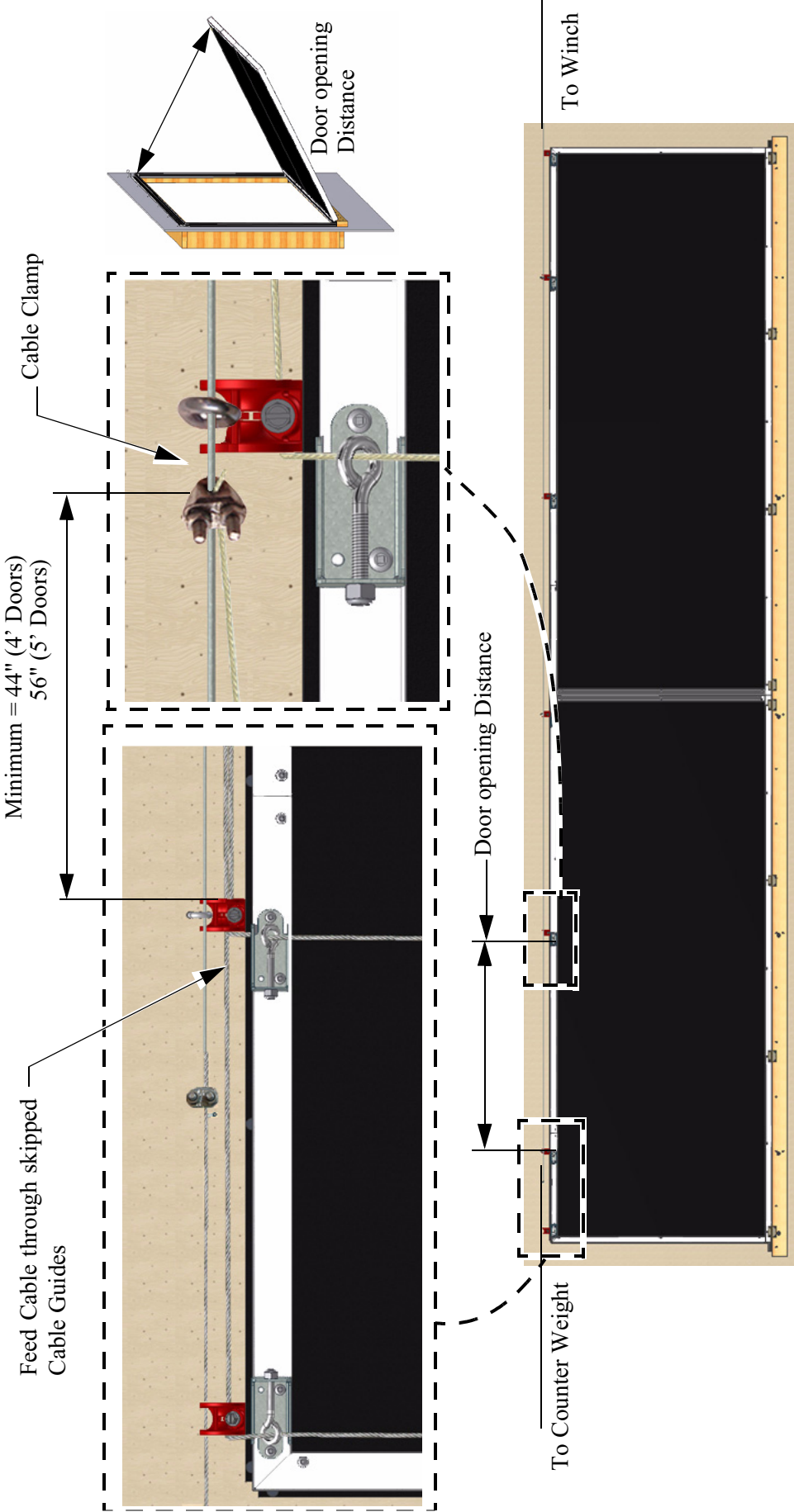
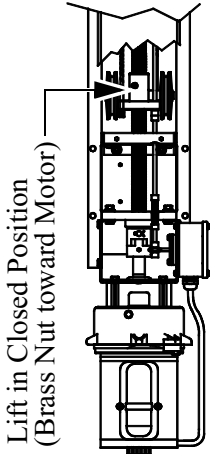


Step 3. Attach Ropes to Door Wire with a Cable Clamp. The Minimum distance between the Cable Clamp and the next Eyehook is the desired Door opening distance.

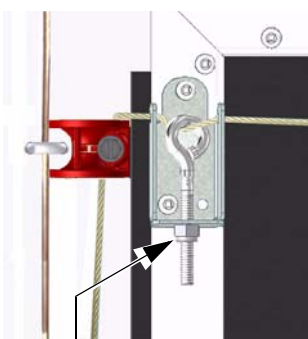
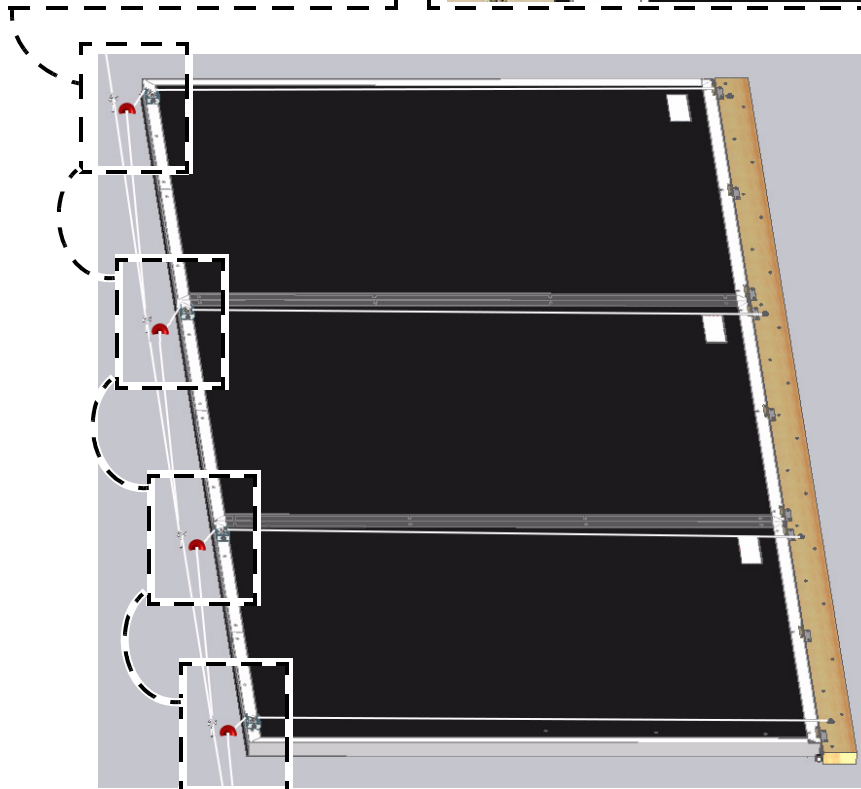
Cable Attachment

Step 1. Use the Hand Winch to pre-stretch the Main Cable before installing Cable drops.

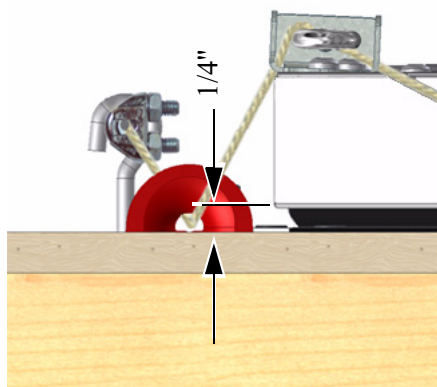
Step 3. Attach Cables to Door Wire with a Cable Clamp. The Minimum distance between the Cable Clamp and the next Eyehook is the desired Door opening distance.



Final Door Adjustment

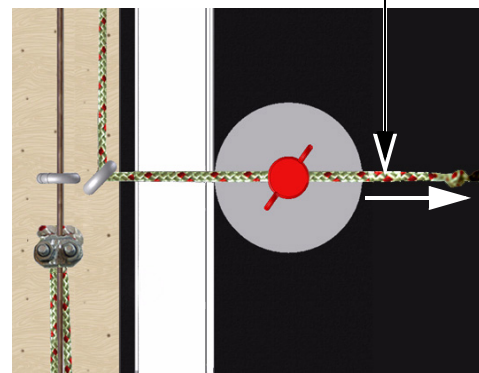


1/4-20 Nut



Adjust Cable Tension at each Drop-
Tighten the 1/4-20 nut on the Cable Tensioner at each drop until the gap between the Door and the P-Seal is 1/4"

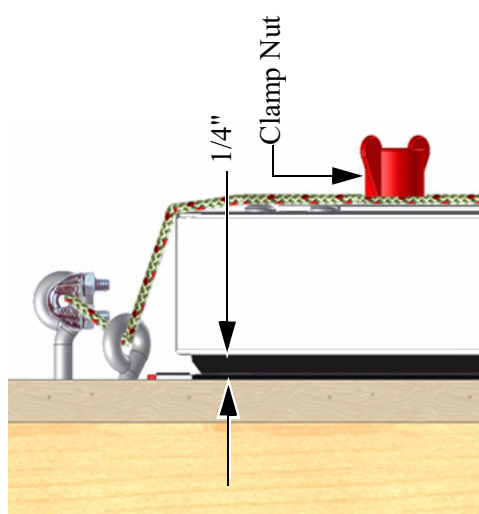
Cable Version



Rope

Adjust Rope Tension at each Drop- Loosen the Clamp Nut and pull down on the Rope at each drop until there is a 1/4" Gap between the Door and the P-Seal.

Rope Version



Clamp Nut

Itemized Parts

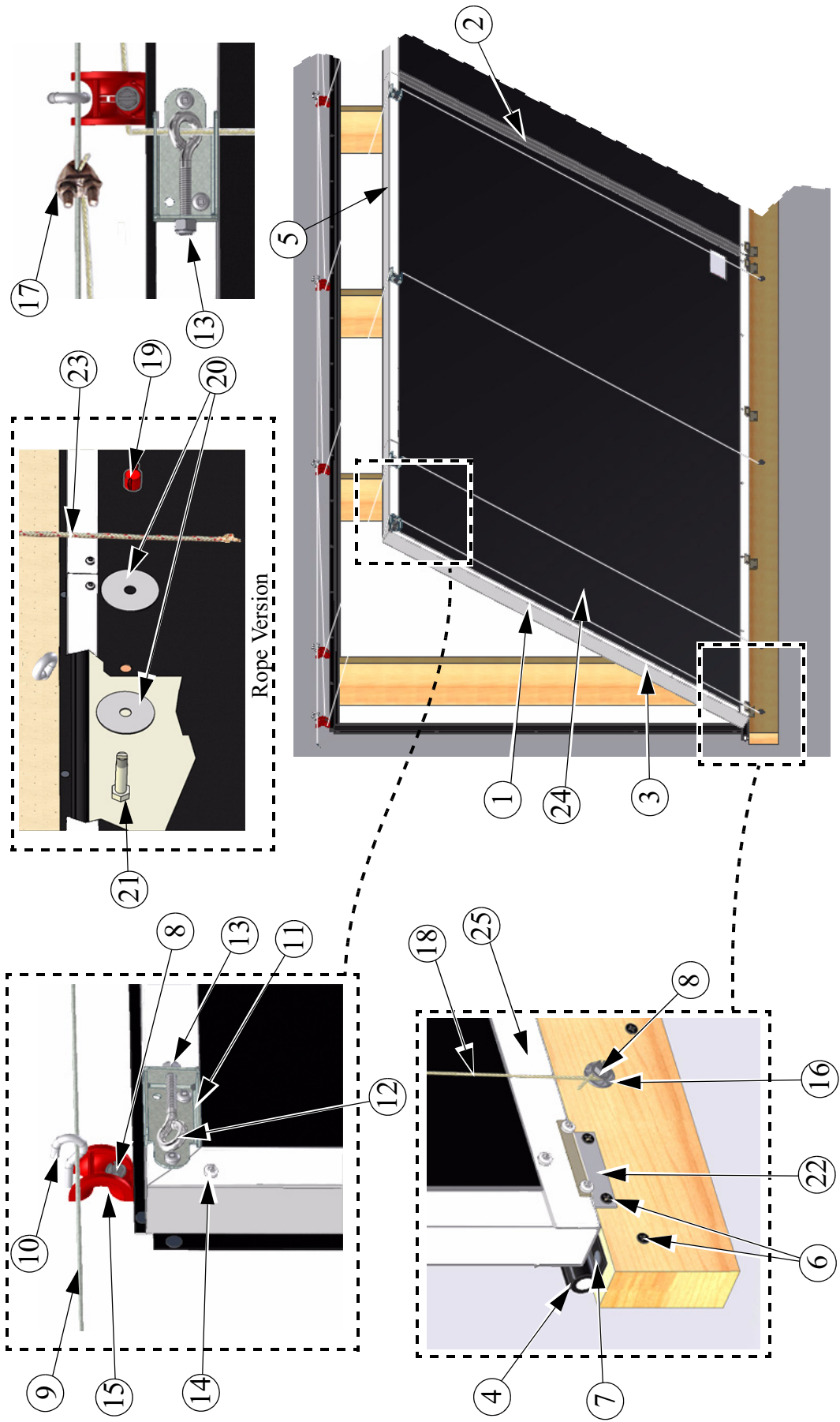


Figure 45. Part Numbers

Part Numbers

Item	Description	Models	
		4' Door	5' Door
1	48" Tall x 120" Blk Tunnel Door Section	Part No. 51345 ⁵	Part No. --
	60" Tall x 48" Blk Tunnel Door Section	--	51528 ⁶
2	45.63" Blk. H-Channel (Sq. ends)	52591-7	--
	57.63" Blk. H-Channel (Sq. ends)	--	52591-8
3	48.32" Blk C-Channel 45° Ends	52591-1	--
	60.32" Blk C-Channel 45° Ends	--	52591-2
4	3/4" Bulb Seal (Blk. with Flange)	51488	51488
5	96.55 C-Channel (Blk. w/ Sq. Ends)	--	52591-9
6	#9-9x3Quadrex Drive Wood Screw	50241 ²	50241 ²
7	2D x 1 11 Gauge Roofing Nail	50239 ²	50239 ²
8	1/4 x #10 x 1.75 Lag Screw	51039	51039
9	Actuator Wire (500')	48530A ³	48530A
10	Screw Hook	1214	1214
11	Cable Tensioner Bracket	51489	51489
12	1/4 x 20x 1.625 Eyebolt	1928	1928
13	1/4-20 Hx Lock Nut (Nyl. Insert)	8159	8159
14	#10 x 1/2" Sq. Drive Panhead Screw	52102 ²	52102 ²
15	Cable Guide	51173 ²	51173 ²
16	.406 x .812 x .065 Washer	4967	4967
17	.125 Cable Clamp	14898	14898
18	3/32-7x19 Aircraft Cable	28394	28394
19	Split Bolt Cap	40788	40788
20	Large Washer for Split Bolt	50234	50234
21	Split Bolt	50236	50236
22	1.5 x 2.5 SS Hinge	51917	51917
23	Rope	5-37173 ⁴	5-37173 ⁴
	Available Replacement Panels		
24	1.5 x 48 x 120 Blk FRP Panel	51344	
	1.5 x 48 x 60 Blk FRP Panel		51344-6
25	48.55 C-Channel (Blk. w/ Sq. Ends)	--	52591-7
	120.55 C-Channel (Blk. w/ Sq. Ends)	52591-10	

¹ Seal must be ordered in increments of 200'

² Must be ordered in increments of 100 pieces

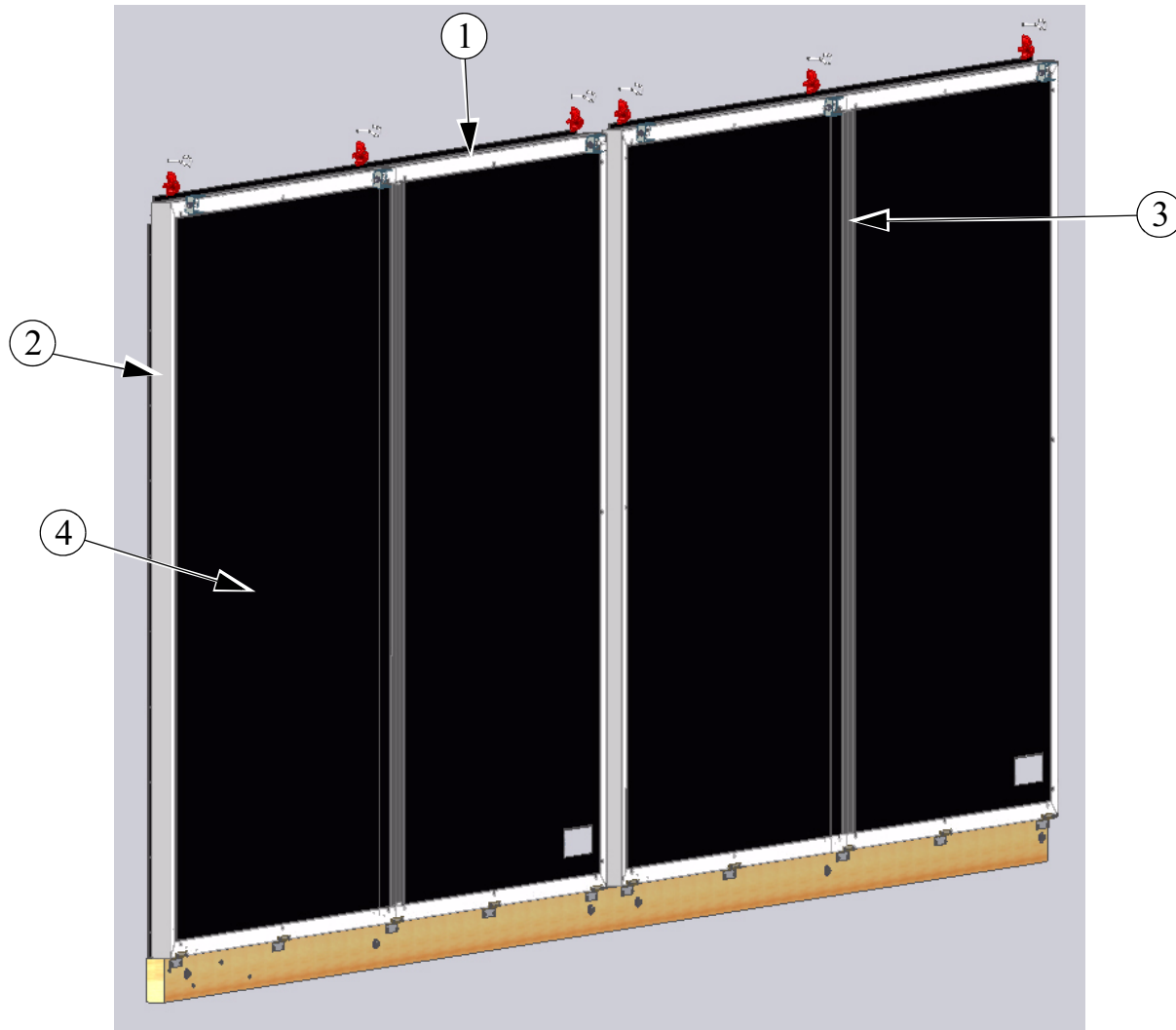
³ Actuator wire must be ordered in increments of 500' coils under part number 48530

⁴ Rope must be ordered in increments of 1000' 5-37173-1000

⁵ Section includes 51344 Panel with 52591-10 Top and Bottom C-Channels and 51917 Hinges assembled

⁶ Section includes 51344-6 Panel with 52591-7 Bottom C-Channel and 51917 Hinges assembled

Itemized Parts (Individual Doors)



Item	Description	Size, Assembly Part No. and Component Part Numbers					
		4' x 48"	4' x 93"	4' x 115"	5' x 48"	5' x 93"	5' x 115" Door
		51664	51665	51666	51868	51869	51870
1	Top and Bottom C-Channel (45° ends)	52591-1	52591-3	52591-5	52591-1	52591-3	52591-5
2	Side C-Channel (45° ends)	52591-1	52591-1	52591-1	52591-2	52591-2	52591-2
3	H-Channel	--	--	--	--	51153-8	51153-8
	Available Replacement Panel Sizes	Part No.					
4	Panel, 1.5" x 48" x 60" Black FRP	51344-6					
	Panel, 1.5" x 48" x 96" Black FRP	51344-8					
	Panel, 1.5" x 48" x 120" Black FRP	51344					

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Revisions to this Manual

Page No.	Description of Change
Various	Changed C-Channel From Black (51152-X) to White (52591-X).

Contact your nearby Chore-Time distributor or representative for additional parts and information.

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