

The Genuine. The Original.



***Installation Instructions for
FACE MOUNTED
ROLLING STEEL STORM SHELTER DOOR
with
NON-TENSION RELEASE AUTOMATIC CLOSURE
GOVERNOR CONTROLLED
Model 610FR
Rolling Steel Storm Shelter Doors may be mounted on steel or
masonry construction.***

READ COMPLETE INSTRUCTIONS BEFORE INSTALLING DOORS

This document also refers to the following other documents or specifications:

Expansion Anchor Requirement 500436-0001

Rolling Fire Door Test Drop Release Form 830874-0001

Safety Information

⚠ WARNING

Overhead doors are large, heavy objects that move with the help of springs under high tension and electric motors. Since moving objects, springs under tension, and electric motors can cause injuries, your safety and the safety of others depend on you reading the information in this manual. If you have questions or do not understand the information presented, call your nearest trained door system technician.




In this section and those that follow, the words "**DANGER**", "**WARNING**", and "**CAUTION**" are used to stress important safety information. The word:

⚠ **DANGER** Indicates a hazardous situation that, if not avoided, will result in death or serious injury.

⚠ **WARNING** Indicates a hazardous situation that, if not avoided, could result in death or serious injury.

⚠ **CAUTION** Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

The word **NOTE** is used to indicate important steps to be followed or important considerations.

POTENTIAL HAZARD	EFFECT	PREVENTION
 MOVING DOOR	⚠ WARNING Could Result In Death Or Serious Injury	Keep people clear of opening while Door is moving. Do NOT allow children to play with the Door Operator. Do NOT operate a Door that jams or one that has a broken spring.
 ELECTRICAL SHOCK	⚠ WARNING Could Result In Death Or Serious Injury	Turn OFF electrical power before removing Control Panel cover. When replacing cover, make sure wires are not pinching or near moving parts. Operator must be properly grounded.
 HIGH SPRING TENSION	⚠ WARNING Could Result In Death Or Serious Injury	Do NOT try to remove, install, repair or adjust springs or anything to which door spring parts are fastened, such as, wood blocks, steel brackets, cables or other like items. Installations, repairs and adjustments must be made by a trained door system technician using proper tools and instructions.

Key Drawing

Pictorial view of a Rolling Steel Storm Shelter Door with parts and their names. See also the Breakdown Of Parts on pages 36-37.

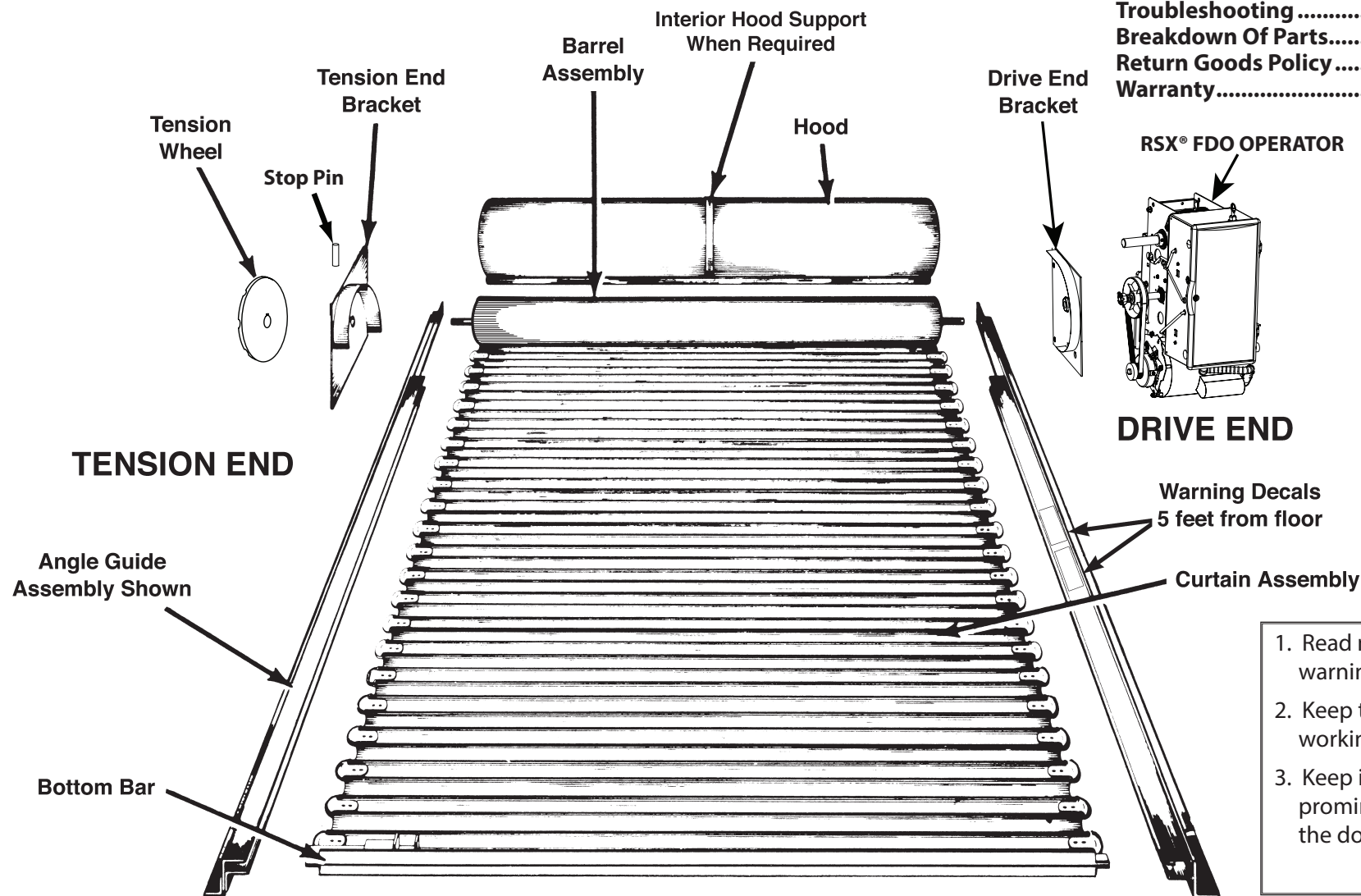


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1. Read manual and warnings carefully.
2. Keep the door in good working condition.
3. Keep instructions in a prominent location near the door system.

Data Sheet

Your "DATA SHEET" is shown below. It is found inside the door hardware box. You will need to refer to the data on this sheet during installation.

Verify that the "Factory Order Number" on the door components matches the one shown on the DATA SHEET.

Jobless Traveler Report

SO#	SO Line#:	SO Line Item:
Org Code:	Qty:	Desc:
Cust. PO:	Customer:	Customer Job:
Job Name:		
Schl'd Ship Dt:		
Product Desc:		

CURTAIN:
OPERATION:
BOTTOM BAR:
GUIDE:

HOOD/CRATE:

*****	DOOR	INSTALLATION	DATA	*****	*****	*****	*****
MODEL:				S-REFERENCE:			
OPENING WIDTH:		OPENING HEIGHT:		HAND OF OPERATION:		GUIDE TYPE:	
INITIAL TURNS:		RELEASE TURN:		OPERATION TYPE:		CURTAIN/BOTTOM BAR WT:	
TOTAL TURNS:		OPER MODEL:/VOLTAGE:		DRIVE NO:		PIPE ASSEMBLY WT:	
GUIDE GAP:		OPER MOUNT TYPE:		GUIDE FINISH:		BRACKET FINISH:	
***** WORK ORDER MESSAGES *****							
**							
**							
**							

Pre-Installation

VERIFY THAT THE DOOR INSTALLATION can be accomplished before proceeding:

- Insure the wall opening matches the Opening Width and Height shown on the "DATA SHEET" and in Figure 1.
- Are the jambs suitable to hold the guides? See jambs details below.
- Are the guides you received suitable for the jambs? Compare the guide type shown on the "DATA SHEET" with Figure 2.
- Can the guides be installed plumb?
- Measure the length of the guide jamb angle and the height of the jamb opening. The difference must allow expansion of the guides 1/8" per foot of opening height. Attachment bolts or anchors must be installed at top of slot on wall angle. See Figure 5.

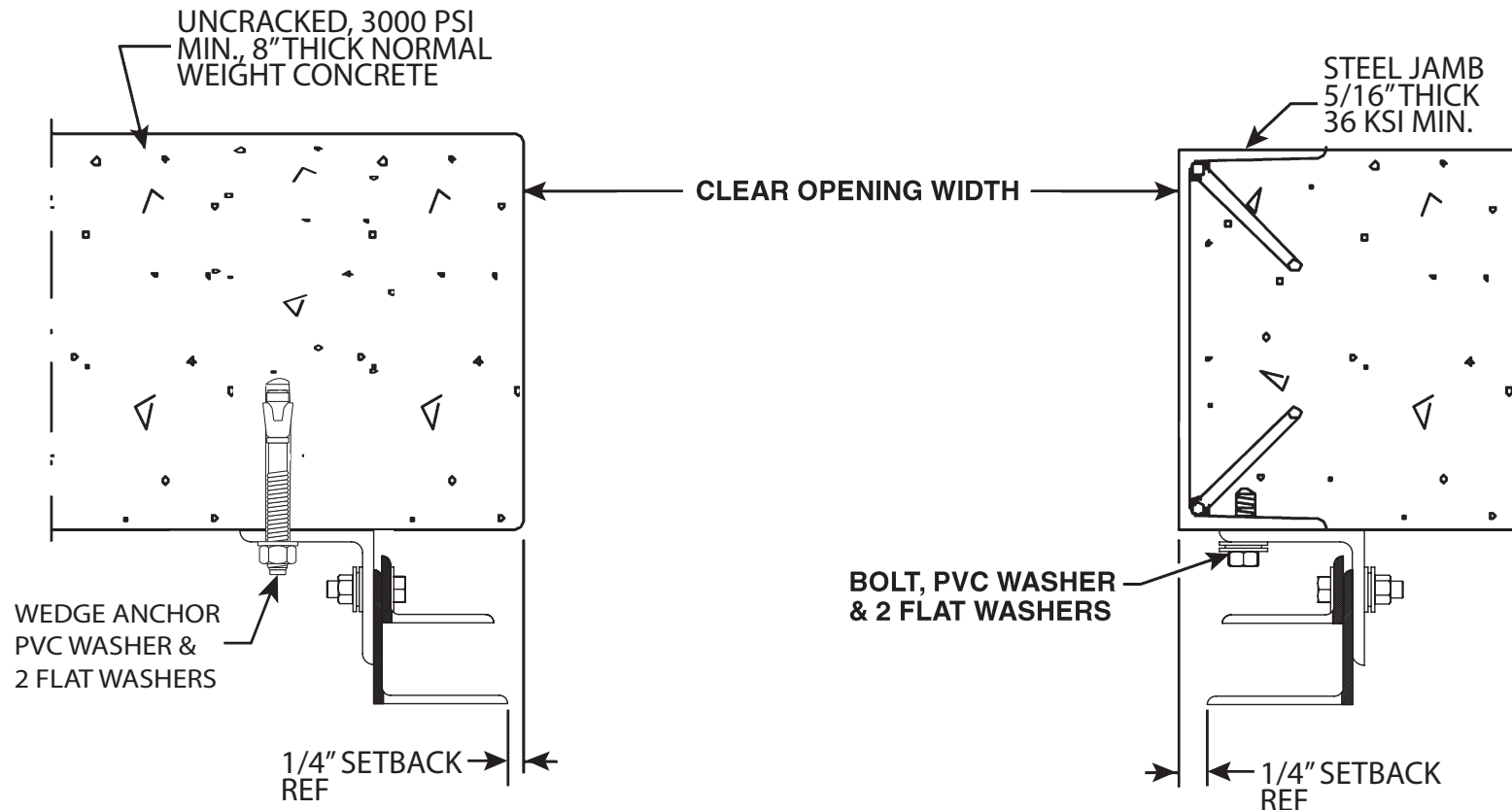
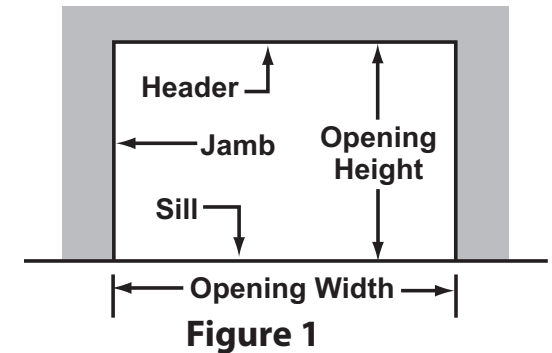


Figure 2

Pre-Door Install

1. INSTALL GUIDE ASSEMBLIES

- Locate the guide assemblies such that the "S" dimension exists between the guides, as shown in Figure 4.
- The "S" dimension is shown on the "DATA SHEET".
- Both guides MUST be on a level line and both guides MUST be plumb.
- The "S" dimension must be held within 1/8" over the entire height of guides.
- Guide assemblies are designed to rest on floor.

NOTE: If the bottom of one guide is above floor, see Step 42 on page 33.

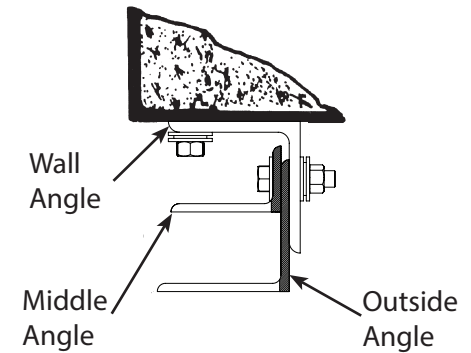


Figure 3

NOTE: If outside angle is flared, then unbolt the Outside Angle and the Middle Angle from the Wall Angle. They will be bolted to the Wall Angle after the curtain installation is complete in Step 21.

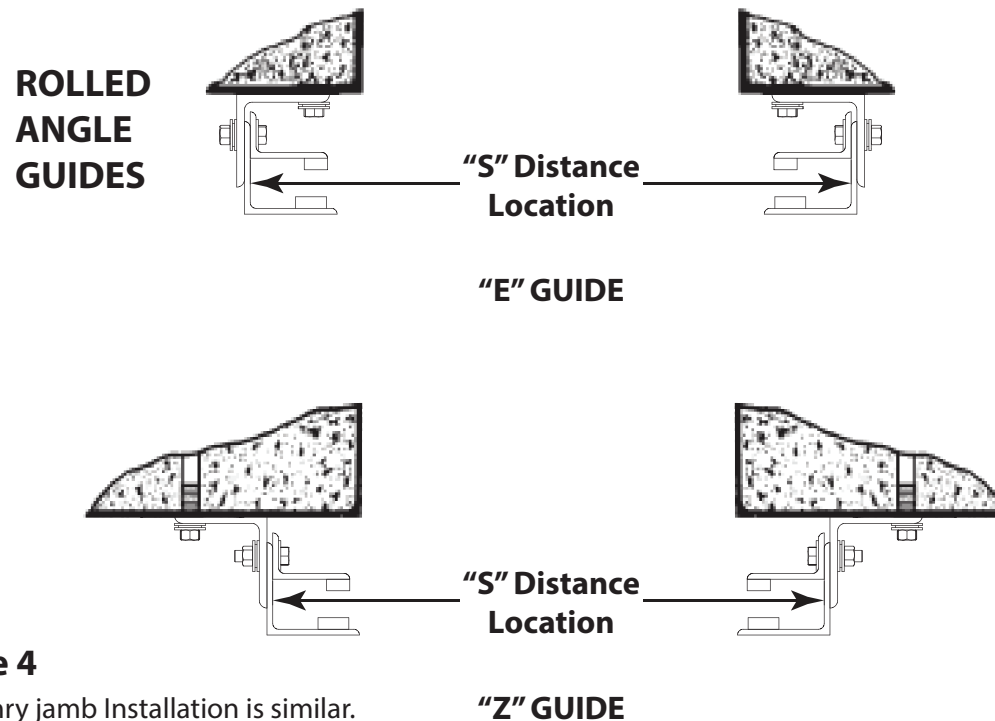


Figure 4

Masonry jambs shown, non-masonry jamb Installation is similar.

Pre-Door Install (continued)

A. MASONRY JAMBS

Hold "Z" guide wall angle against wall and drill mounting holes through the top of slots using drill size shown below. Install jamb fasteners on one guide. Recheck "S" distance, and continue with installation. Refer also to Expansion Anchor Instructions 500436-0001.

B. STEEL JAMBS SCREW ATTACHMENT OPTION

Hold "E" guide wall angle against steel jamb and mark the spot to be drilled at top of slots. Drill holes through the top of slots using drill size shown below. Install all jamb fasteners on one guide. Recheck "S" distance, and continue with installation.

NOTE: When steel jamb does not extend above the opening, use three thru-bolts to fasten each wall angle above the opening. See Figure 5.

JAMB	FASTENER	DRILL SIZE	JAMB FASTENER SPECIFICATIONS
Steel	3/4" bolt	21/32" diameter	Steel jambs must be minimum 5/16" thick
Concrete	3/4" expansion bolt	13/16" diameter	5-1/2" EMBED HILTI KBTZ2 OR EQUIVALENT 6" O.C. MIN 8 1/2" EDGE DISTANCE Drill hole at least 8-1/2" from jamb corner per OHD Installation Instruction 500436.0001.

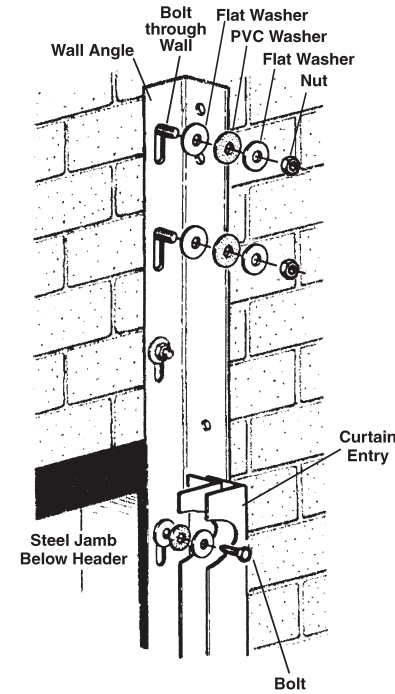


Figure 5

2. IDENTIFY HEADPLATE BRACKETS

See Figure 6.

Right Hand Drive shown; Left Hand Drive is opposite.

HEADPLATE BRACKETS

RH Drive shown, LH Drive opposite

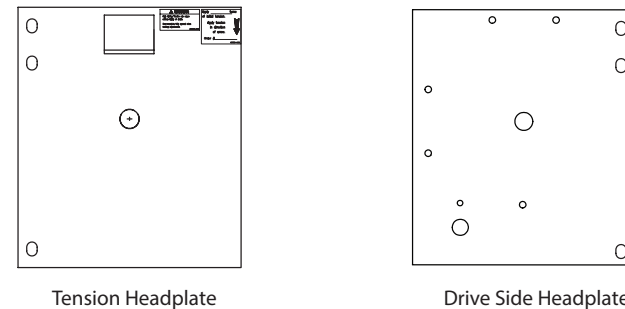


Figure 6

Pre-Door Install (continued)

3. IDENTIFY BARREL ASSEMBLY DRIVE END

Right hand drive shown in Figure 7; left hand drive is opposite. Look for an "R" for right hand drive or an "L" for left hand drive stamped on the end of the drive shaft.

SPRING CONFIGURATION

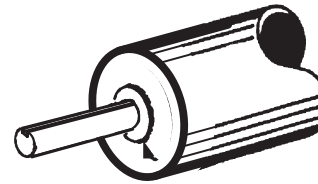
See Figure 7.

- Left hand drive counterbalance has end of spring pinned to barrel near tension end.
- Right hand drive counterbalance has end of spring pinned to barrel several feet from tension end.
- At tension end of barrel the bearing assembly is pinned to the barrel, as shown in Figure 8.

BARREL ASSEMBLY

RH Drive shown, LH opposite

TENSION END



DRIVE END

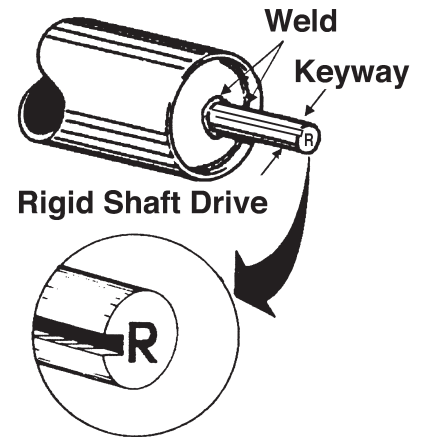


Figure 7

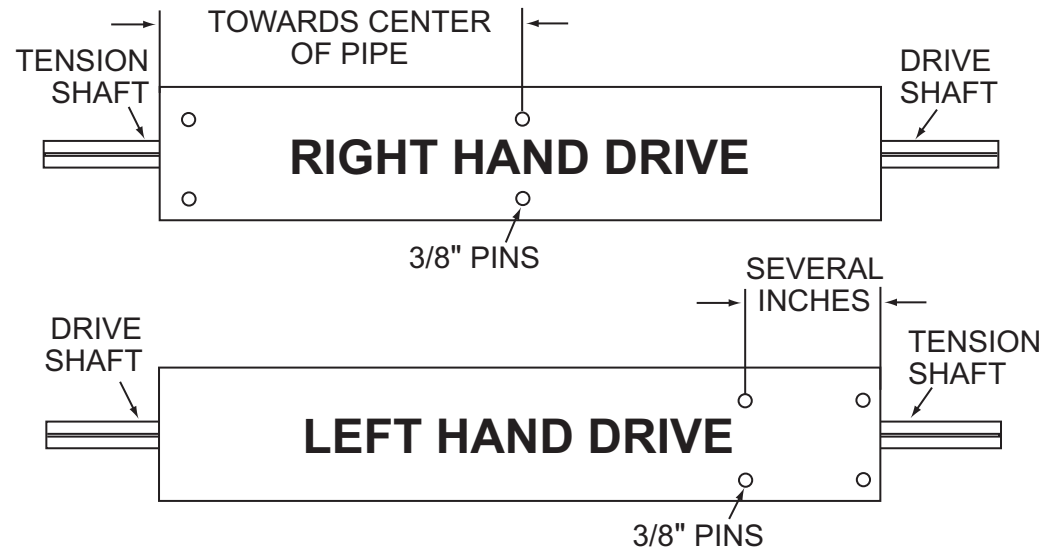
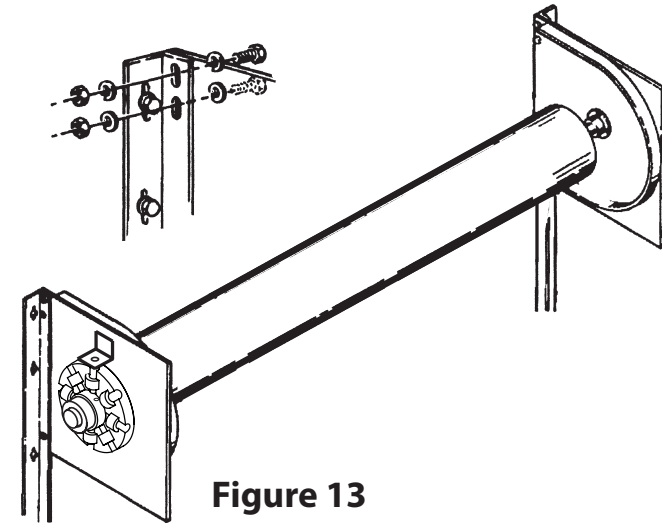


Figure 8

Pre-Door Install (continued)

7. LIFT BARREL AND HEADPLATE BRACKETS AND BOLT THEM TO GUIDE WALL ANGLES

- Use hex bolts to fasten headplate brackets to the inside of the guide wall angle.
- Bolt heads must be on the inside of the headplate brackets. See Figure 13.
Brackets may have 2 or 3 mounting slots.
- Put flat steel washer under bolt head and under nut.
- Headplate brackets must be square to the wall and parallel.
- Center barrel between brackets.
- Barrel must be level.
- Tighten set screws in drive headplate bearing and slide set collar on tension shaft against inside of tension headplate and tighten setscrews to lock counterbalance between headplates.



Operator Install

8. RSX STORM SHELTER DOOR OPERATOR ASSEMBLY

⚠ WARNING

Failure to correctly perform all steps in below can result in serious injury or death.

Operator Install (continued)

Safety Information & Instructions

⚠ WARNING

Overhead Doors are large, heavy objects that move with the help of springs under high tension and electric motors. Since moving objects, springs under tension, and electric motors can cause injury, your safety and the safety of others depend on you reading the information in this manual. If you have any questions or do not understand the information presented, call your nearest service representative. For the number of your local Overhead Door Dealer, call 800-929-3667, and for **Overhead Door Factory Technical Advice, call 800-275-6187.**




In this section and those that follow, the words "**DANGER**", "**WARNING**", and "**CAUTION**" are used to stress important safety information. The word:

⚠ **DANGER** Indicates a hazardous situation that, if not avoided, will result in death or serious injury.

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The word **NOTE** is used to indicate important steps to be followed or important considerations.

POTENTIAL HAZARD	EFFECT	PREVENTION
 <p>MOVING DOOR</p>	<p>⚠ WARNING</p> <p>Could Result In Death Or Serious Injury</p>	<p>Do NOT operate unless the doorway is in sight and free of obstructions. Keep people clear of opening while door is moving.</p> <p>Do NOT allow children to play with the door operator.</p> <p>Do NOT change operator control to momentary contact unless nd external reversing means is installed.</p> <p>Do NOT operate a door that jams or one that has a broken spring.</p>
 <p>ELECTRICAL SHOCK</p>	<p>⚠ WARNING</p> <p>Could Result In Death Or Serious Injury</p>	<p>Turn off electrical power before removing operator cover. When replacing the cover, make sure wires are not pinched or near moving parts.</p> <p>Operator must be electrically grounded.</p>
 <p>HIGH SPRING TENSION</p>	<p>⚠ WARNING</p> <p>Could Result In Death Or Serious Injury</p>	<p>Do NOT try to remove, repair or adjust springs or anything to which door spring parts are fastened, such as wood block, steel bracket, cable or any other structure or like item.</p> <p>Repairs and adjustments must be made by trained service representative using proper tools and instructions.</p>

Operator Install (continued)

Safety Information & Instructions

IMPORTANT

READ PRIOR TO ANY DOOR OPERATION

1. Read manual and warnings carefully.
2. Keep the door in good working condition. Periodically lubricate all moving parts of door.
3. If door has a sensing edge, check operations monthly. Make any necessary repairs to keep it functional.
4. AT LEAST twice a year, manually operate the door by disconnecting it from the operator. The Door should open and close freely. If it does not, the door must be taken out of service and a trained service representative must correct the condition causing the malfunction.
5. The Operator Motor is protected against overheating by an internal thermal protector. If the motor protector is tripped, a trained service technical may be needed to correct the condition which caused the overheating. When the motor has cooled, thermal protector will automatically reset and normal operation can be resumed.
6. In case of power failure, the door can be operated manually by pulling the release cable to disconnect the operator drive system.
7. Keep instructions in a prominent location near the Release Handle.

9. CRITICAL INSTALLATION INFORMATION

TECHNICAL DATA

The following information will help the installer and electrician fully understand all aspects of this installation.

This unit contains the following parts:

- Operator assembly.
- Owners manual and warning/caution placards.
- Hardware box.
- 3-button control station.
- Drive Chain. #50
 - Output Shaft Speed: 46 RPM
 - Motor is continuous duty type
 - Control wiring: Maximum of 1000 feet of 22-24 ga. stranded wire run.

Electrical Load Information:

Amperage draw in Full Load Amps (FLA)

1 Phase 1/2HP Operators:	3 Phase 1/2HP Operators:
115VAC - 60Hz - 10 FLA	208VAC - 60Hz - 3 FLA
208VAC - 60Hz - 5 FLA	230VAC - 60Hz - 3 FLA
230VAC - 60Hz - 5 FLA	460VAC - 60Hz - 3 FLA
	575VAC - 60Hz - 2 FLA
1 Phase 3/4HP Operators:	
115VAC - 60Hz - 11 FLA	3 Phase 3/4HP Operators:
208VAC - 60Hz - 6 FLA	208VAC - 60Hz - 3 FLA
230VAC - 60Hz - 6 FLA	230VAC - 60Hz - 4 FLA
	460VAC - 60Hz - 3 FLA
1 Phase 1HP Operators:	575VAC - 60Hz - 2 FLA
115VAC - 60Hz - 14 FLA	
208VAC - 60Hz - 7 FLA	3 Phase 1HP Operators:
230VAC - 60Hz - 7 FLA	208VAC - 60Hz - 4 FLA
	230VAC - 60Hz - 4 FLA
	460VAC - 60Hz - 3 FLA
	575VAC - 60Hz - 2 FLA

Operator Install (continued)

IMPORTANT INSTALLATION INSTRUCTIONS

WARNING

**To reduce the risk of
severe injury or death:**

1. READ AND FOLLOW ALL INSTALLATION INSTRUCTIONS.
2. Only power up the operator when the door is properly operating and balanced. A door that is operating improperly could cause severe injury.
3. Install the door operator at least 8ft. (2.44m) or more above the floor if operator has exposed moving parts. If the operator must be installed less than 8ft. (2.44m) above the floor, then exposed moving parts must be protected by covers or guarding, provided by the operator manufacturer.
4. Do not connect the door operator to the power source until instructed to do so.
5. Locate the control station: (a) within sight of the door, (b) a minimum of 5 feet above the floor so that small children cannot reach it, and (c) away from all moving parts of the door.
6. Install the Entrapment Warning Placard next to the control station and in a prominent location.
7. For products having a manual release, instruct the end user on the operation of the manual release.

Operator Install (continued)

10. FRONT AND TOP OF HOOD MOUNT

The Fire Door Operator can be purchased for right-hand or left-hand mounting for Front of Hood & Top of Hood Mount configurations. Right hand mounting shown. Left hand mounting is a mirror image.

- Remove 8 nuts (4 each side) and exchange sides of the mounting brackets and reinstall with mounting pads inboard. See Figure 14
- Attach operator to main mounting bracket using the four 5/16" - 18 X 1-1/4" carriage bolts, flange nuts. See Figure 15
- Attach operator assembly to weld plate using hardware provided. Do not tighten. See Figures 16 and 17

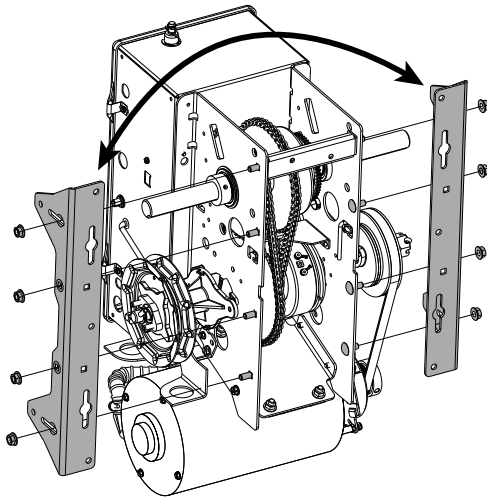


Figure 14

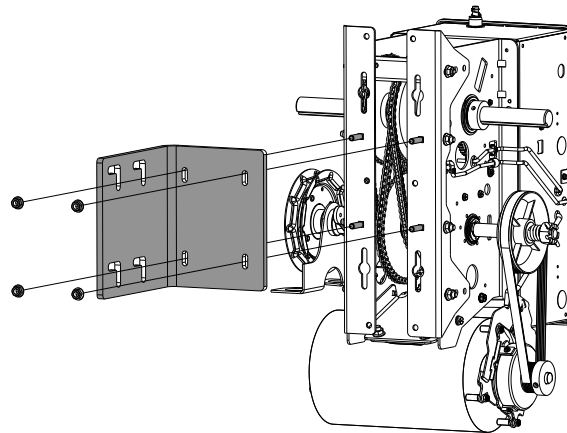


Figure 15

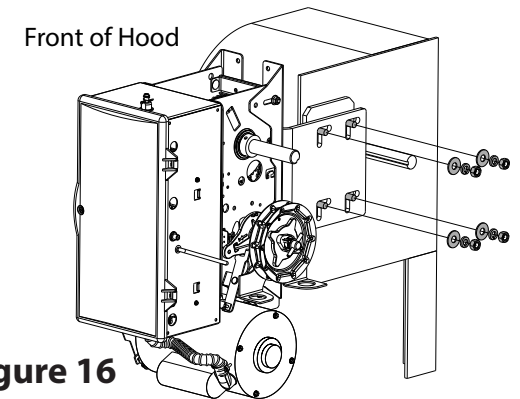


Figure 16

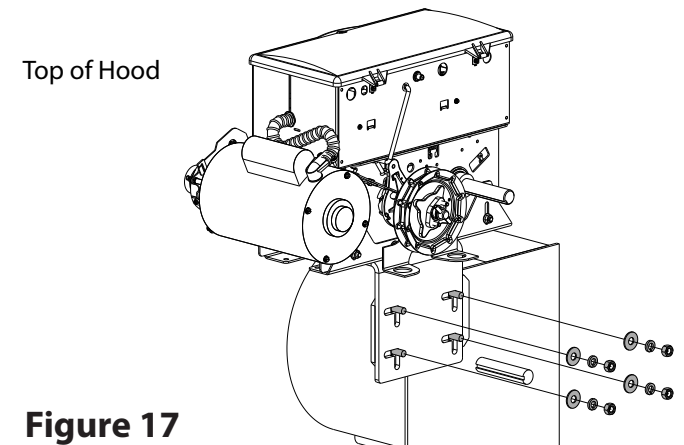


Figure 17

Operator Install (continued)

11. FRONT AND TOP OF HOOD MOUNT (CONTINUED)

ATTACH OPERATOR TO DOOR.

- Mount operator assembly to weld plate and install mounting hardware, do not tighten. See Figure 18
- Attach 12 tooth sprocket and key to operator output shaft, do not tighten.
- Attach door sprocket and key to door shaft, do not tighten.
- Install chain onto sprockets.
- Move and align sprockets and chain as close to the operator as possible. See Figure 19
- Adjust operator to remove slack from chain. Be certain operator output shaft is parallel with door shaft.
- Tighten operator mounting bracket nuts.
- Apply locking compound to all sprocket set screws and tighten.

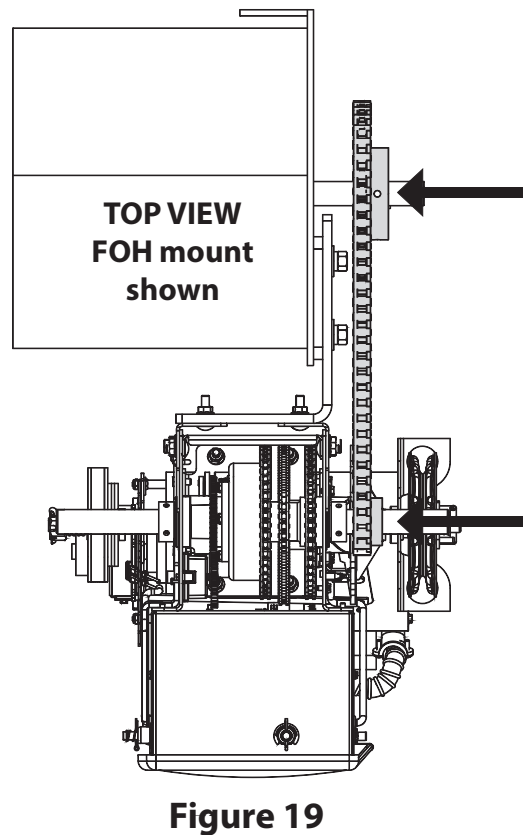


Figure 19

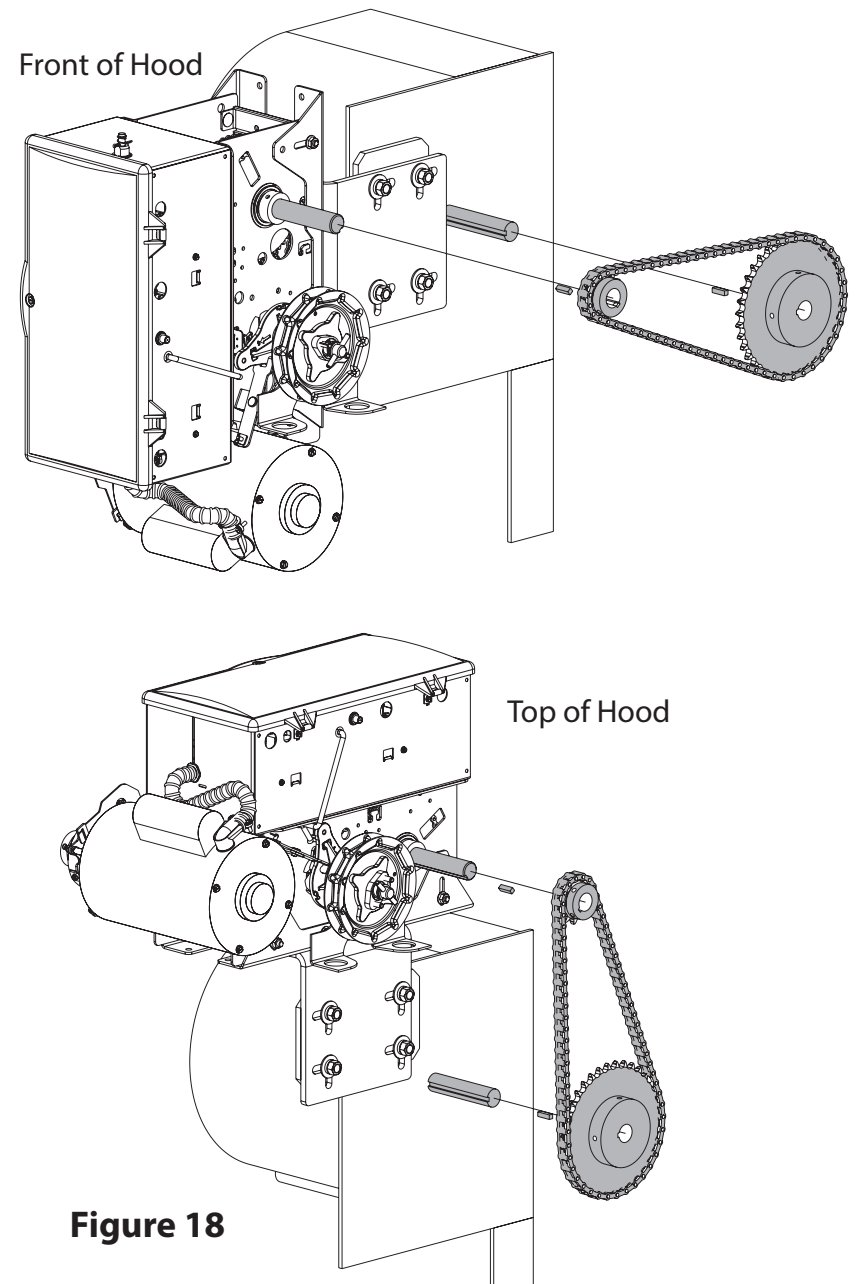


Figure 18

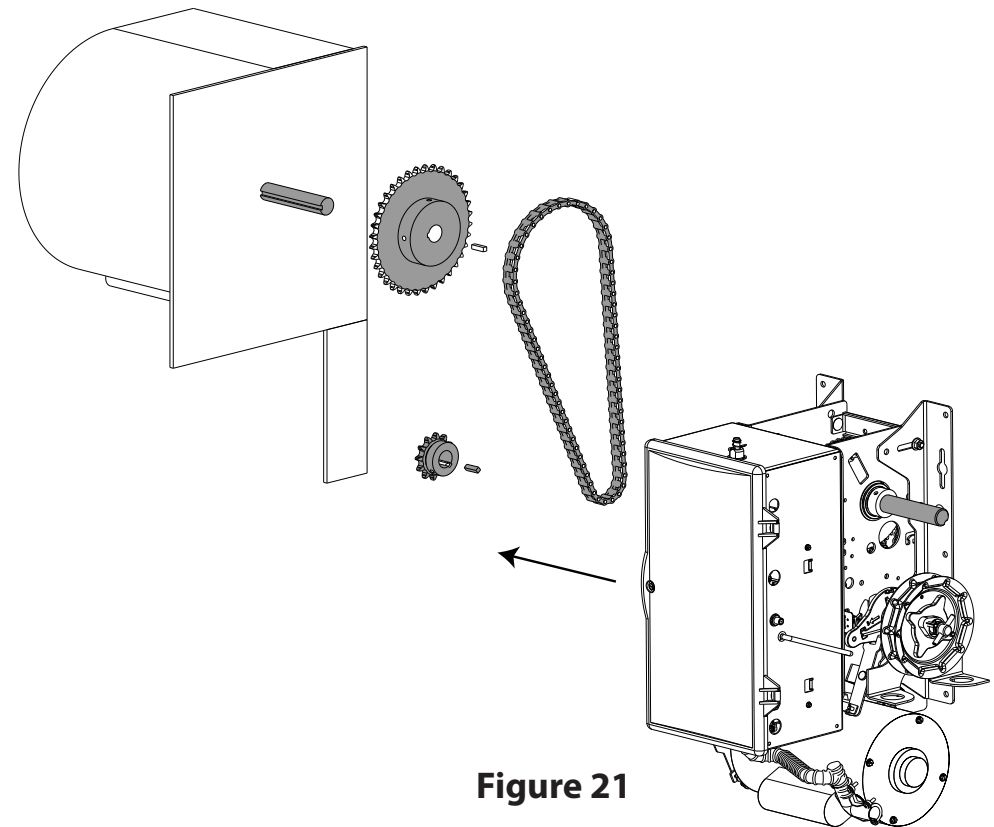
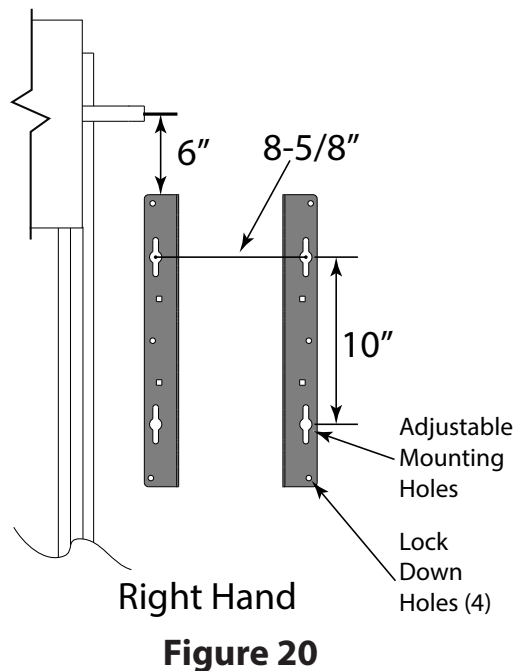
Operator Install (continued)

12. WALL MOUNT

The Fire Door Operator can be purchased for right-hand or left-hand mounting for Wall Mount configuration. Right hand mounting shown. Left hand mounting is a mirror image.

- Determine location for operator above or below door shaft.
- Mark mounting holes on wall using template as a guide. See Figure 20
- Install appropriate bolts or lag screws with washers to wall leaving a 1/2" gap to slide mounting brackets onto. (See chart)
- Hang operator to wall on adjustable mounting holes/hardware. See Figure 21
- Install door sprocket and key to door shaft, do not tighten.
- Install operator sprocket and key to operator output shaft, do not tighten.
- Align sprockets and install chain.
- Adjust operator and align shafts. Operator and door shafts must be parallel for proper operation.
- Adjust operator as needed and tighten mounting hardware.
- Install appropriate bolts/lags into at least 2 lock down holes. See Figure 20
- Apply locking compound to door and operator sprocket set screws and tighten.

JAMB	FASTENER	DRILL SIZE	JAMB FASTENER SPECIFICATIONS
Steel	1/2" self-tapping screw	27/64" diameter	Steel jambs must be minimum 3/8" thick
Concrete	1/2" expansion bolt	1/2" diameter	Drill hole at least 4" from jamb corner per OHD Installation Instruction 500436.0001.



Operator Install (continued)

13. BENCH MOUNT

The Fire Door Operator can be purchased for right-hand or left-hand mounting for Bench Mount configuration. Right hand mounting shown. Left hand mounting is a mirror image.

- Remove 8 nuts (4 each side) and exchange sides of the mounting brackets and reinstall with mounting pads inboard. See Figure 22
- Attach operator to bench mounting bracket using the four 5/16"- 18 X 1-1/4" carriage bolts, hex nuts, and lock washers provided. See Figure 23

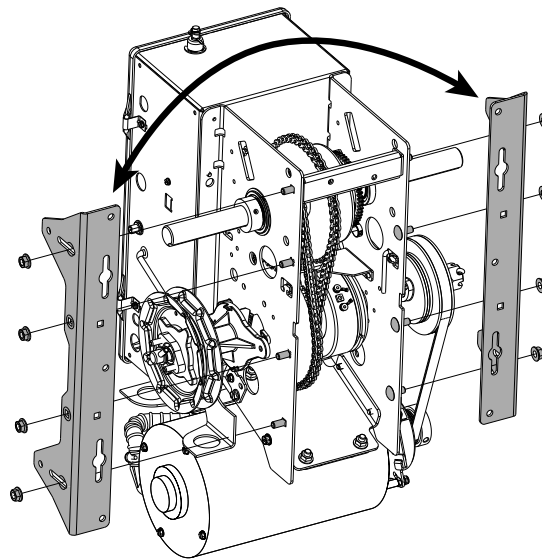


Figure 22

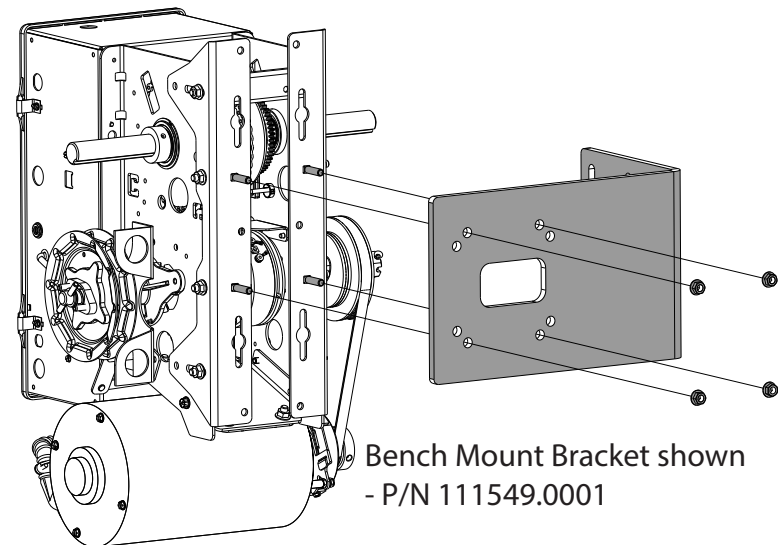


Figure 23

Operator Install (continued)

13. BENCH MOUNT (CONTINUED)

ATTACH OPERATOR TO DOOR:

- Mount operator assembly to weld plate and install mounting hardware, do not tighten. See Figure 24
- Attach 12 tooth sprocket and key to operator output shaft, do not tighten.
- Attach door sprocket and key to door shaft, do not tighten.
- Install chain onto sprockets.
- Adjust operator to remove slack from chain. Be certain operator output shaft is parallel with door shaft.
- Tighten operator mounting bracket nuts.
- Apply locking compound to all sprocket setscrews and tighten

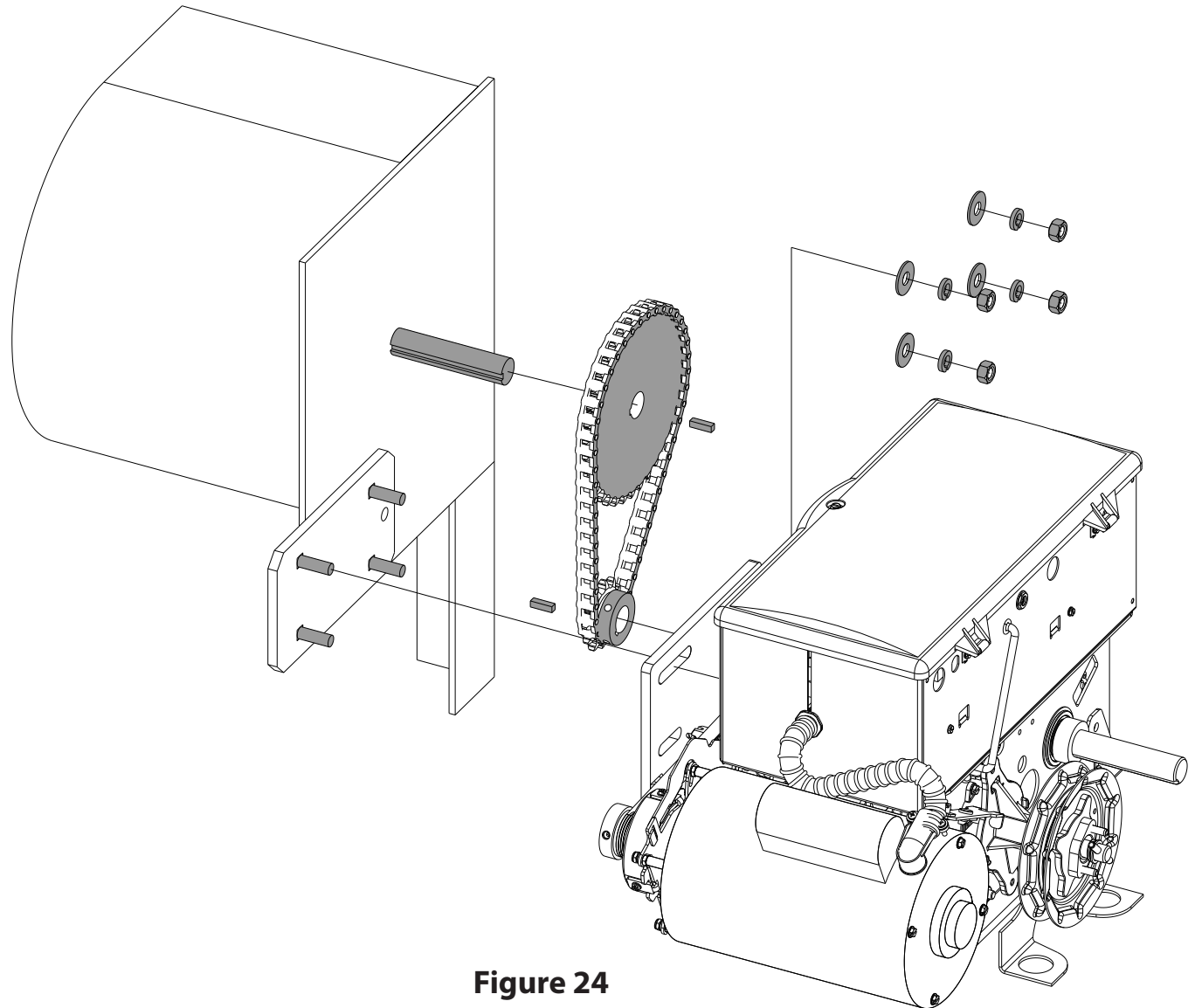


Figure 24

Operator Install (continued)

14. HAND CHAIN AND KEEPER

- Route the hand chain through the chain guide, around the pocket wheel and back through the chain guide. See Figure 25
- Connect the hand chain ends together as shown in Figure 26 by twisting open the last link on one end of the chain, and slipping the last link on the opposite end onto the open link.
- Twist open link closed again.
- Mount chain keeper to wall in line with chain approximately 4 feet from floor.
- Loop chain around keeper as shown. See Figure 27. Optional Padlock not provided.
- Install hoist cable.
- With operator installed motor DOWN, attach hoist cable to cam arm hole closest to mounting plate. See Figure 28
- With operator installed motor UP, attach hoist cable to cam arm hole closest to electric box. See Figure 28

NOTE: To insure smooth operation, make sure there is no twist in the hand chain before connecting the link ends together.

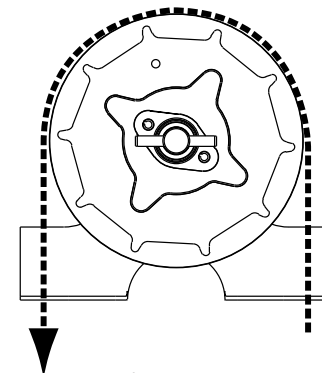


Figure 25

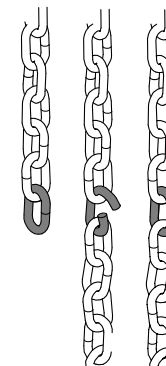


Figure 26

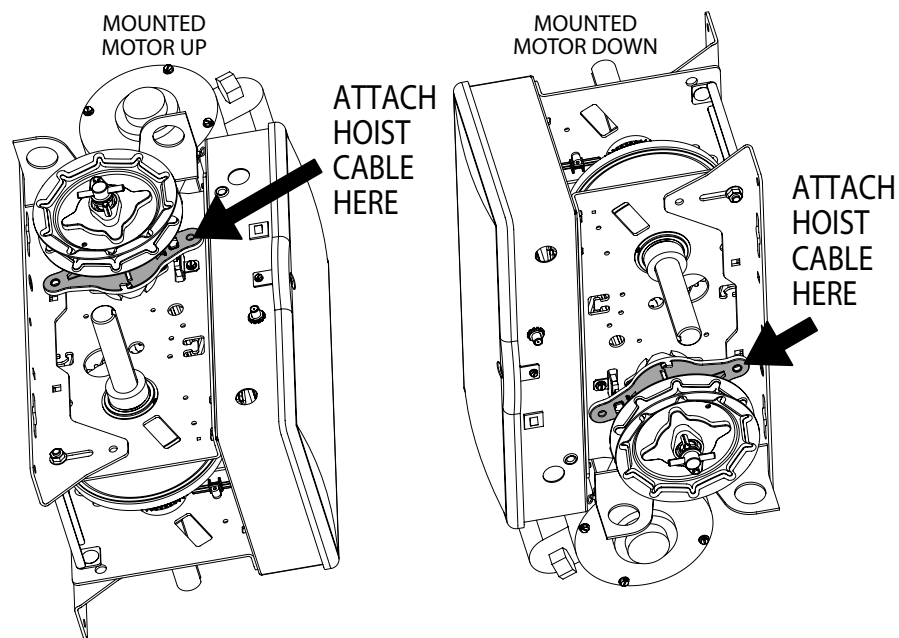


Figure 28

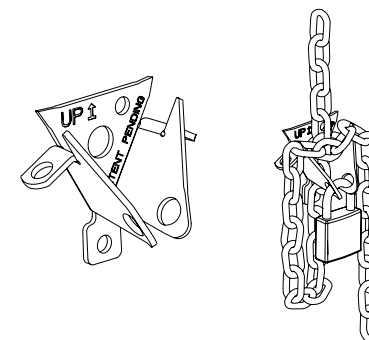


Figure 27

Operator Install (continued)

15. FUSIBLE LINK SWITCH

The Fire Door Operator provides a connection for the Fusible Link. If tension is lost from chain, operator will release its clutch and door will drop.

- Move Fusible Link Switch from top of Electric Box to Side if necessary depending on installation of operator direction or side. See Figures 29-31
- Remove E-Ring to remove switch assembly.
- Remove plug and insert into hole where fuse link switch was removed.
- Install fuse link switch assembly into desired connection point and install E-Ring.
- Follow all recommendations for release chain installation per NFPA 80. Note direction of pull on switch. See Figure 31
- Remove fuse link switch pin to tension chain. Ensure switch holds tension on chain and does not contact internal switch. See Figure 31

NOTE: If operator and headplate sway during door operation, bracing is necessary.

Using structural angle, diagonally brace from operator mounting bracket or from front portion of headplate back to wall.

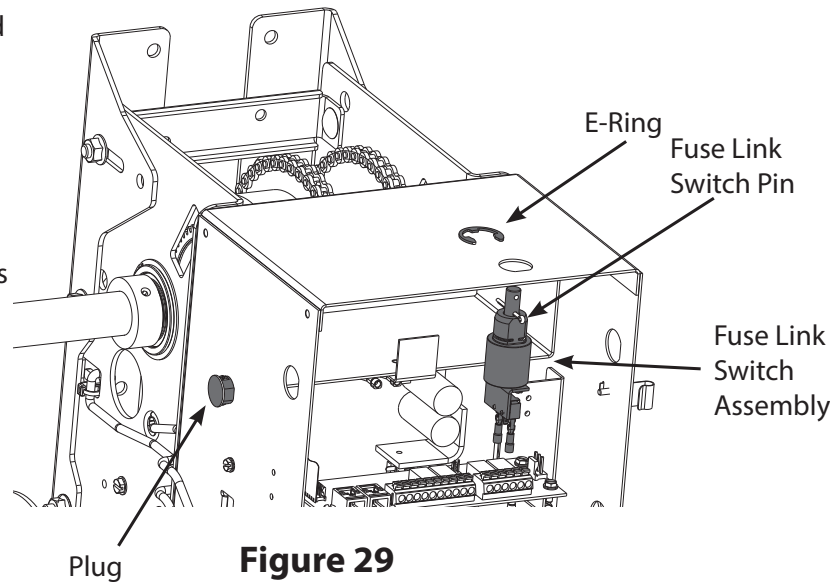


Figure 29

Tensional Direction

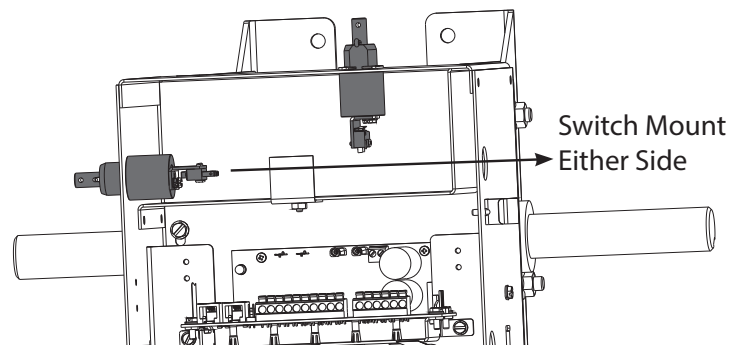


Figure 30

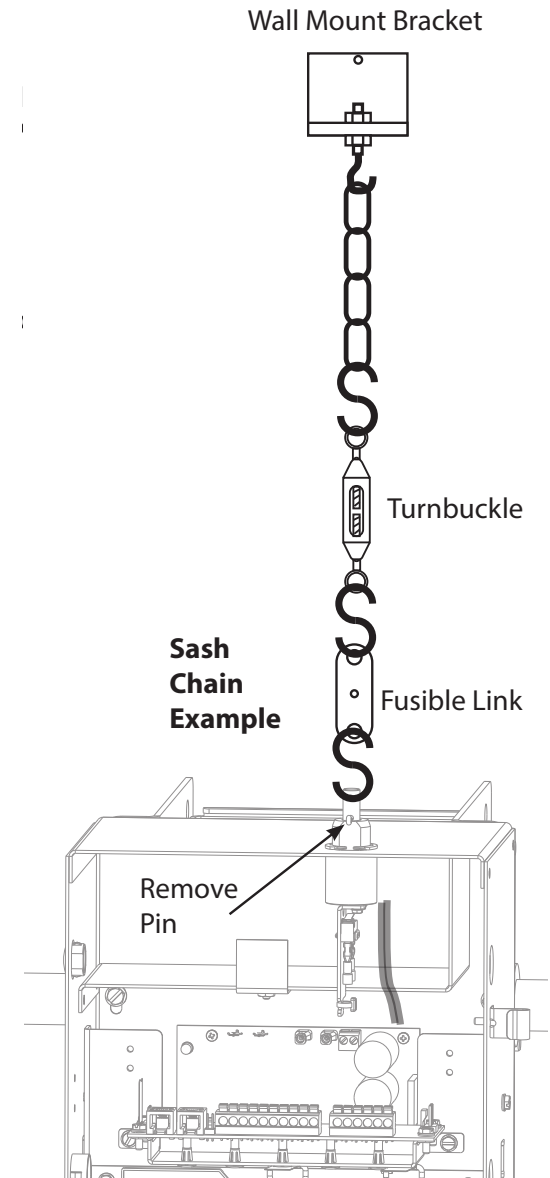


Figure 31

Operator Install (continued)

16. CLUTCH ADJUSTMENT

NOTE: The clutch is intended to provide protection for the door, the operator and associated equipment. It is not intended for entrapment protection.

To Adjust the Clutch: Figure 32

- Decrease the compression on the clutch until the operator will not lift the door.
- Turning the adjustment castle nut counter-clockwise will decrease compression and clockwise will increase compression.
- Gradually increase compression until the operator will perform a complete open and close cycle without clutch slippage.
- Insert a cotter pin through the adjustment castle nut and bend a leg of the cotter pin to hold it in place.

NOTE: Periodically check the system for proper clutch action. If clutch starts to slip after working properly for some time, check manual operation of door BEFORE adjusting clutch. The door may not be operating freely or the counterbalance spring may need adjusting. Repairs and adjustments must be performed by a trained service representative using proper tools and instructions.

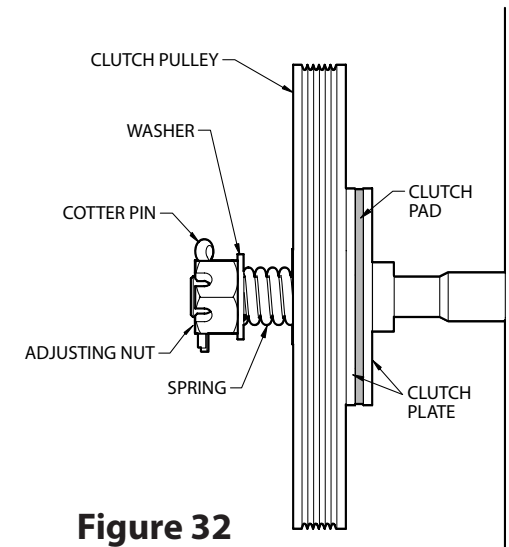


Figure 32

OPTIONAL AUXILIARY BOARD (AOM OR TCM)

Only one auxiliary board can be used with this opener.

- Unplug FDO module ribbon harness from main control board plug connector. See Figure 33
- Remove the two screws mounting the FDO module to plate.
- Use the two screws included with the auxiliary board and mount to plate where FDO module was.
- Plug auxiliary board ribbon harness into plug connector on main control board.
- Reinstall FDO module onto plate just above the auxiliary board.
- Plug FDO module ribbon harness into connector on auxiliary board.

NOTE: Additional menu items will appear during programming. See the instructions included with the Auxiliary board to see changes.

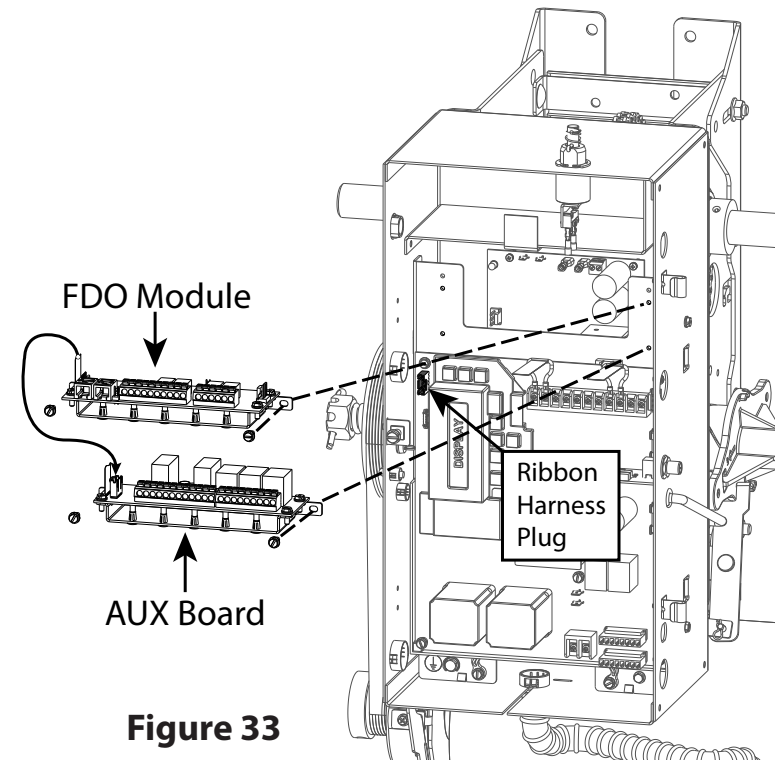


Figure 33

Final Door Install

17. INSTALL CURTAIN

See Figure 34

- The Sling Method is recommended because rolling the curtain onto the barrel assembly from the floor can cause curtain damage.
- Suspend the curtain below the barrel on two or more slings or ropes rated for the weight of the curtain, shown on the "DATA SHEET".
- Fasten the top slat to sling/rope and rotate the sling/rope to bring the top slat into position.
- The top slat will have slots to attach to barrel. Hook curtain over studs and fasten with 5/16" round head screws and washers and TWO clamp washers provided.
- See Figure 35.
- Coil curtain completely onto barrel using chain hoist.

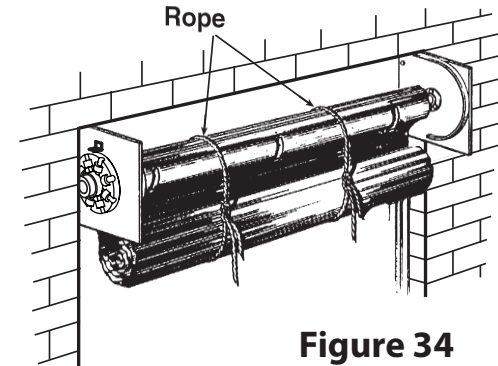


Figure 34

⚠ WARNING

Rapidly closing curtain could result in death or serious injury. Use slings/ropes and locking pliers on both guides to keep curtain in the open position until spring tension is applied to the barrel assembly.

18. INSTALL SENSING EDGE MODULE

See Figure 36

- Install the sensing edge wireless modules onto the bottom bar angle using #8 x 1/2" Phillips Pan Head Screws. Refer to provided install manual inside of wireless module kit.

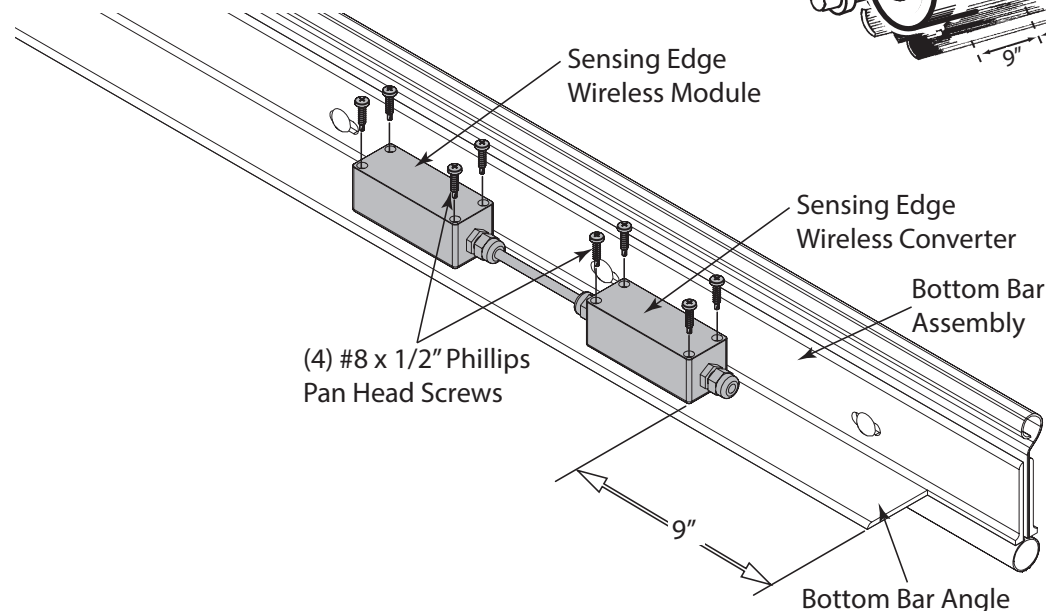


Figure 36

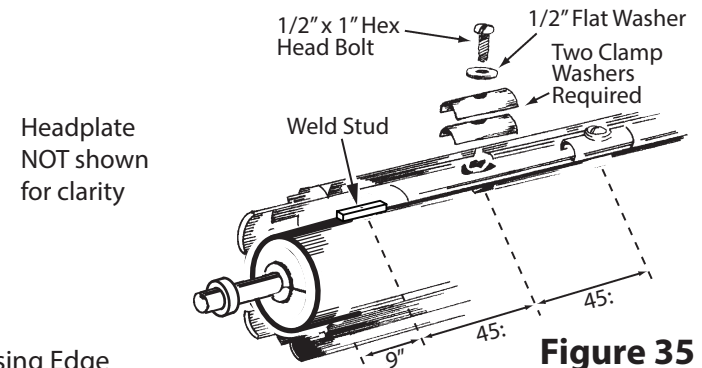


Figure 35

Final Door Install (continued)

19. COMPLETE GUIDE INSTALLATION

- If guides are flared, then bolt the middle angles and the outside angles to the wall angles, as shown in Figure 37.
- The Guide Gap MUST be set to the value shown on the "DATA SHEET".

20. INSIDE SLIDE STOPS

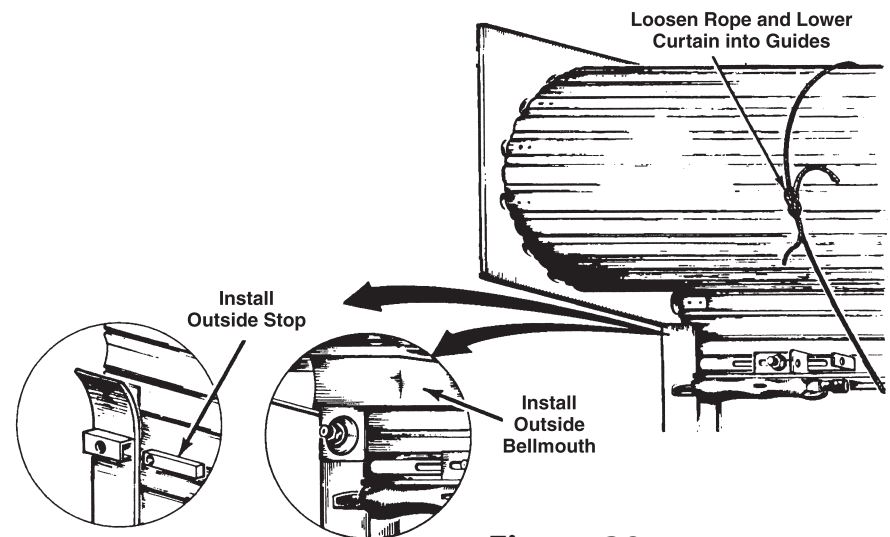
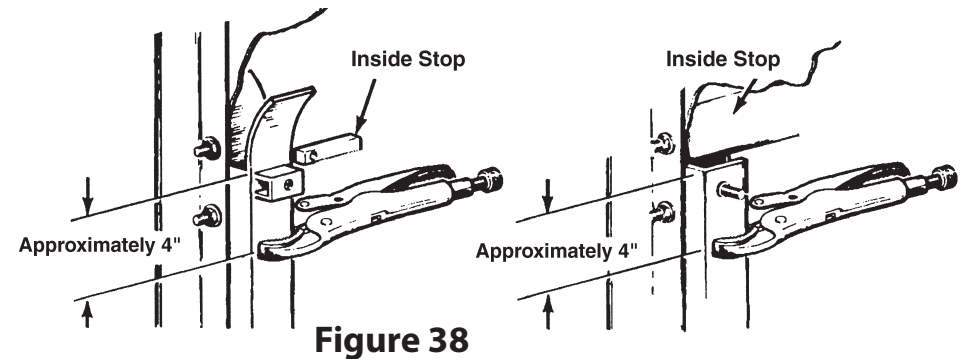
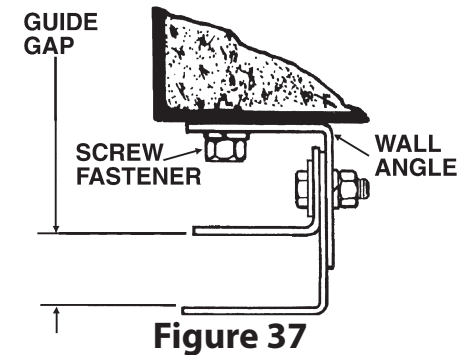
- If the door has flared guides:
Install "Inside Stop" on LH and RH guides as shown in Figure 38. Slide stop into inside channel holder and secure with 3/8"-16 x 1/2" capscrew and washer. Attach locking pliers approximately 4" below the top of channel holder on both LH and RH guides, as shown in Figure 38.
- If the door uses bellmouths:
Install inside bellmouths and attach locking pliers approximately 4" below entrance to both LH and RH guides, as shown in Figure 39.

21. LOWER CURTAIN INTO GUIDES

- The next step is to lower curtain into guides, but before loosening the ropes which holds the coiled curtain, enough initial spring tension must be applied to cause the bottom bar to rotate about 45 degrees; then leave one winding bar in the tension wheel with the winding bar resting against the header.
- Loosen ropes and lower curtain into guides. Do not remove slings/ropes now. Bottom bar angles will pass by inside stops by twisting angle and come to rest against locking pliers.
- Install outside stops. See Figure 39 for flared guides and for guides with bellmouths.

⚠ WARNING

Rapidly closing curtain could result in death or serious injury. Use slings/ropes and locking pliers on both guides to keep curtain in the open position until spring tension is applied to the barrel assembly.



Final Door Install (continued)

⚠ WARNING

Verify that at this point, the Tension Wheel is free and there is no spring tension.

⚠ WARNING

Tension Wheel will be placed under high spring tension and it could spin rapidly resulting in death or serious injury. Door must be open when adjusting spring tension. Use two steel rods 3/4" diameter x 3 feet long (not provided) as winding bars.

⚠ WARNING

Winding bar must fit snugly into holes in Tension Wheel. DO NOT use loose fitting bar or screwdriver which could dislodge resulting in possible serious injury or death.

22. COUNTERBALANCE ADJUSTMENT

- Align Tension Wheel under bracket so Stop Pin can rest in Tension Wheel slot.
- Set Stop Pin in place. See Figure 40D.

Read completely before you set initial turns to the value shown on "DATA SHEET" and on Tension Headplate decal.

Locate the door in the full up position such that the bottom bar is against the bottom bar stops and place a clamp on each guide no more than 6" below the bottom bar. Make certain that the clamping force will be sufficient to stop the door when it rests on the clamps.

Carefully lower the curtain using the chain hoist so that the bottom bar rests on the clamps. By hand, rotate the Tension Wheel slightly both directions to determine the neutral point of the spring counterbalance. Mark the hole in the TENSION WHEEL that is nearest to the retaining lug on the bracket.

NOTE: Tension is applied in the direction the coil would turn as the door moves upward.

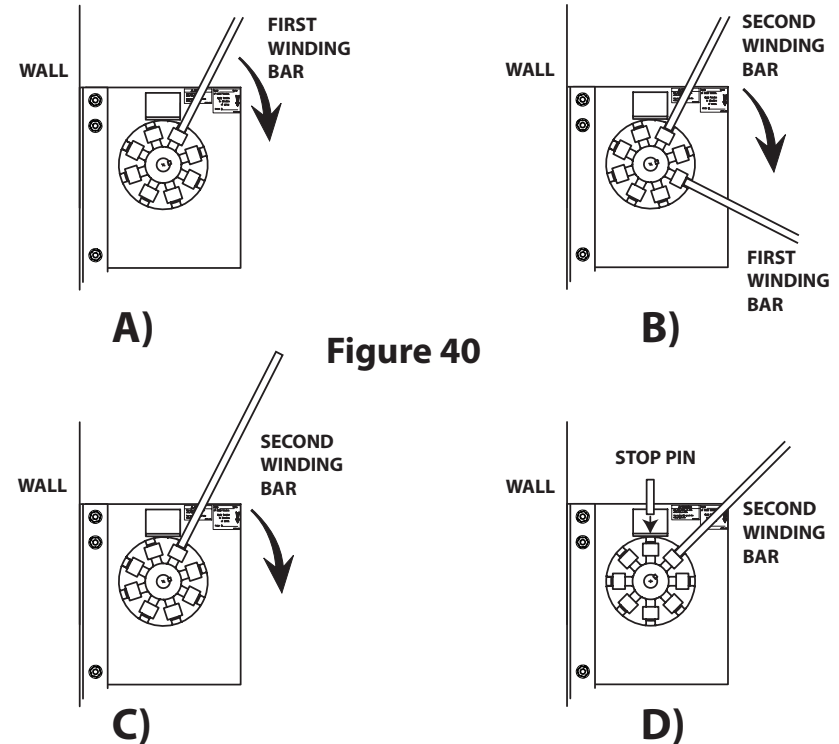
- Insert winding bar into tension wheel and pull down. See Figure 40, A.
- Rotate tension wheel 1/8 to 1/4 turn and stop.
- Hold first bar and insert second bar into tension wheel. See Figure 40, B and C.
- Pull down on second bar while removing the first bar.

⚠ DANGER

Exercise caution when applying or adjusting spring tension. Contact with rapidly rotating Tension Wheel or expelled winding rod can cause serious injury or death.

⚠ DANGER

Tension Wheel holds spring tension. Failure to stop pin shaft could allow Tension Wheel to spin uncontrolled possibly causing serious injury or death.



- Perform one complete manual CLOSE-OPEN cycle of the door with the chain hoist. Ensure the door is running smoothly and free of obstruction, the door counterbalance is properly balanced, and the FDO clutch is adjusted properly. If troubleshooting support is required, contact the factory technical support specialist."

⚠ WARNING

Failure to perform a manual chain hoist CLOSE-OPEN cycle inspection prior to motorized operation of the door may result in curtain damage, serious injury and/or death

Operator Install (continued)

23. LEVEL DOOR (IF NEEDED)—If during previous step the door rolled up level and straight, skip this step.

A. Check that guides are plum, square, level, and are properly mounted onto floor and wall.

B. Check that the pipe is level.

C. Check that the attachment of the curtain is straight on the pipe.

If all of the above is correct and the door still rolls up out of level, a shim may need to be added, as shown in Figure 41.

Shim materials:

- A piece of rubber is the desired material for a shim.
- A piece of cardboard could be used but may deteriorate over time.
- Use a 1/8" x 6" x 6" thick piece of material and increase thickness or pieces depending on the result acquired, as shown in Figure 42.

Application of shim:

- To determine the side in which the shim will be applied, the door will need to be in the open position.
- When facing the door, the bottom bar will be unlevel. The lower side of the bottom bar will be the side in which the shim needs to be placed.
- The hood may need to be loosened or removed for the application of the shim.

To apply the shim, two laborers might be required.

Installing the shim:

D. Close the door fully.

E. When door is at bottom make sure door is in hand chain mode.

F. Turn off the power to the motor (if applicable) to ensure safe application of the shim.

G. Backwind the door using the chain. Lock chain in place using chain keeper.

⚠ WARNING

When the door is wound backwards there is a force in which the door will want to wind forward. Secure the door in this position by locking hand chain onto chain keeper to prevent injury.

H. As the curtain is wound backwards apply the shim to the lower side between the pipe and slats or on the ring of the low side.

I. Restore power to the motor (if applicable).

J. Check the level of the bottom bar while door is in the open position. If it is not level, add a second shim and check again.

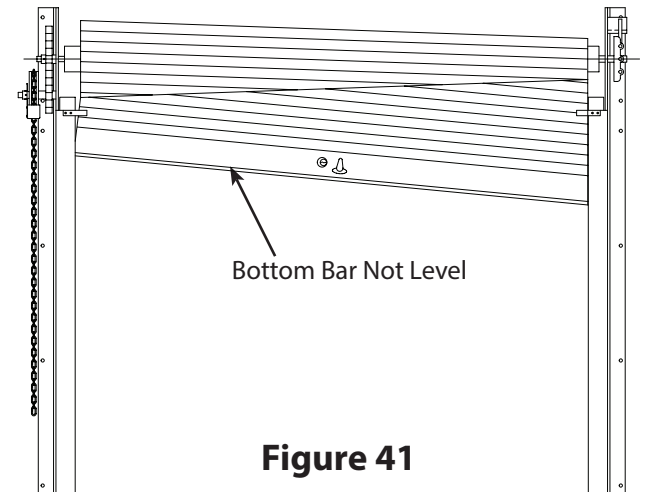


Figure 41

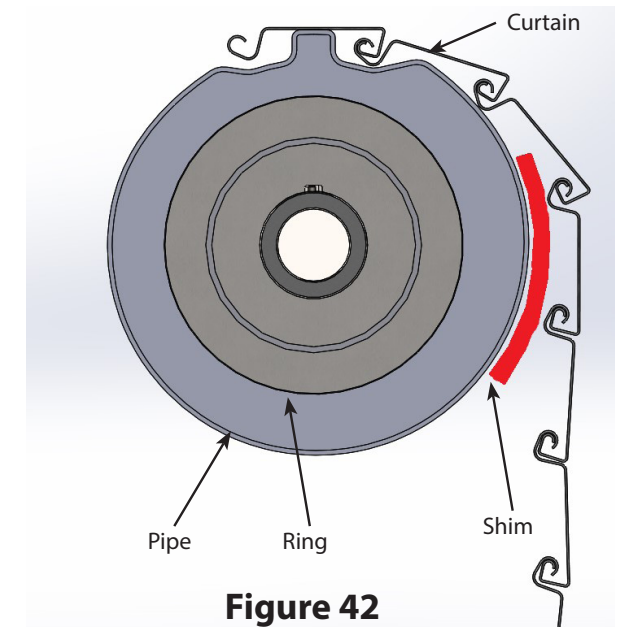


Figure 42

NOTE: If the door has wind locks there may be some stacking interference in the wind locks as the door is wrapping during operation. This is a normal characteristic. For wind lock applications the doors bottom bar should be level at the open position.

Final Door Install (continued)

24. DOOR RELEASE ASSEMBLY ROUTING

- Ream both ends of thru-wall tube for smooth movement of sash chain thru the tube.
- Drill hole thru wall, insert tube and put washer and set collar on each end of tube.

NOTE: Thru-wall release is not required on interior mounted fire doors on exterior walls. Thru-wall release is required on exterior mounted fire doors on exterior walls; install fuse link on the inside of the building.

- Install release assembly, as shown in Figures 43 and 44 as required.
- Install sash chain so rounded end of links enter the thru-wall tube from the side opposite the fire door.

25. RELEASE CHAIN FINAL STEPS

- Tighten the turn-buckles in the release chain assembly.

NOTE: Before continuing to the next step, refer to the RSX® FDO operator manual to complete all necessary steps for electrical wiring, safety device connections, open/close limits programming, and other required and optional setup procedures.

26. TEST PROCEDURES

GENERAL INFORMATION

The Fire Door Operator is intended for use on rolling fire doors. All models are normally-energized fail-safe operators incorporating internal batteries and proprietary control circuitry. All comply with UL864. The operators respond to emergency conditions generated by manual or automatic initiating devices and shall be installed in accordance with NFPA and UL864 standards.

The available operator features include patented annual test standard compliance technology, test plate interface, selectable time delays, minimum 24 hour battery support for release and smoke detectors, form-C relay outputs, notification appliance and troubleshooting capabilities.

The fail-safe design incorporates an annual internal clock/calendar which generates a test trouble signal if the system has not been tested within 365 days per National Fire Code requirements.

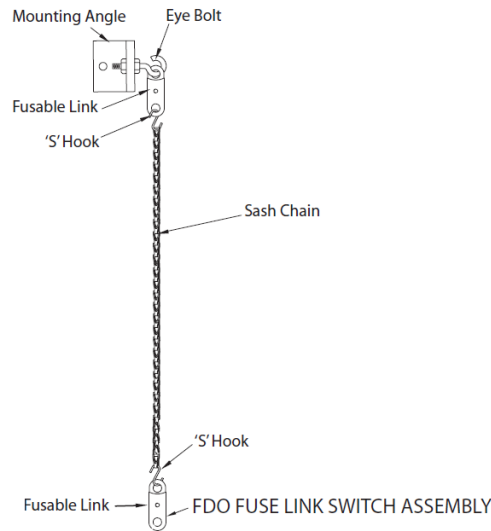


Figure 43

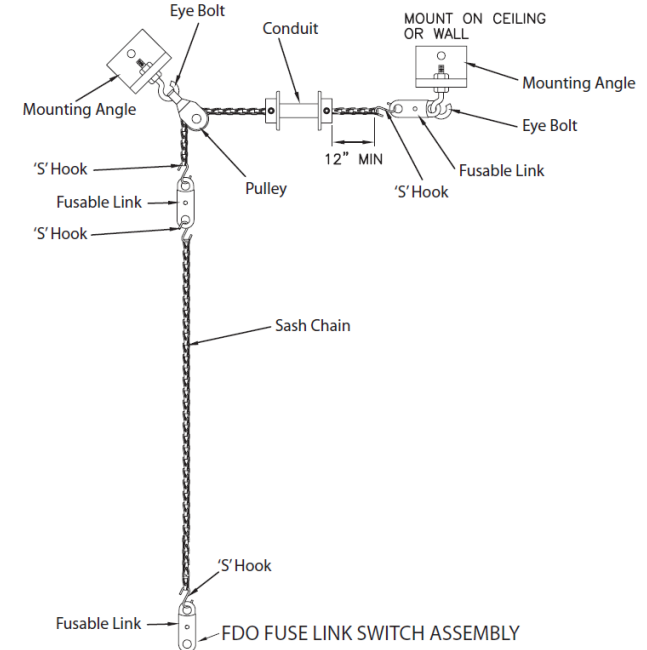


Figure 44

⚠ CAUTION

Review all installation instructions, procedures, cautions and warnings contained within this manual prior to installing and/or servicing this product. As with all releasing device systems, maximum fire protection is provided when installed in accordance with factory specifications and used with fuse link systems.

⚠ CAUTION

Fail-safe operation can only be provided once input power has been applied. Do not install this unit without factory training.

Final Door Install (continued)

⚠ CAUTION

Test system regularly to ensure proper operation! (Testing should be done at least monthly.)

⚠ WARNING

To prevent possible serious injury or death:

- While performing the mechanical or electrical door drop test, stay clear of the door and any moving parts.
- Clear any objects or people from door path.
- Prohibit traffic through the door opening while testing.

27. STANDARD DOOR CLOSURE TEST

- Open door to full open.
- Place TEST/RESET key switch in the TEST position.
After preset delay - Door closes.
- Move key to RESET and then back to NORMAL.

28. MECHANICAL DOOR DROP TEST

NOTE: TESTING MUST BE PERFORMED AND WITNESSED FOR NORMAL OPERATION AFTER INSTALLATION.

A "Test Required" trouble will occur until a complete test cycle is performed. This is a normal condition and part of the Internal Annual Test Clock/Calendar. The annual test is a National Fire Code requirement. More frequent tests may be required by the local Authority Having Jurisdiction (AHJ). Refer to test procedures contained herein.

Test steps 28.1-28.5 verify a mechanical release to a door with external power normal. Test steps 28.6-28.11 verify a mechanical release under battery power with external power loss.

28.1 Turn ON power to the Fire Door Operator.

- A "FDM TEST REQUIRED" trouble will be generated at power up. This is normal.
- Turn the key-switch on the Remote Test and Trouble Plate (RTP) to RESET, then NORMAL, to silence the trouble.
- Move the door to the fully-open position.

⚠ WARNING

Keep the door opening clear of all personnel.

Final Door Install (continued)

28.2 Place the Fire Door Operator into hoist mode by pulling the hoist release cord.

28.3 Turn Reset Test Switch to TEST position. The notification appliance will sound indicating a door closure is about to occur, and after a 10 second factory set alarm delay (or optional longer delay) the Fire Door Operator will mechanically release door and door will close.

28.4 Release the hoist cord.

28.5 Turn Reset Test Switch to RESET position and then back to NORMAL.

28.6 Press the open button to raise the door. (Door may auto open).

⚠ WARNING

Keep the door opening clear of all personnel.

28.7 Turn off power to the Fire Door Operator.

28.8 "External Power Loss," "Battery Not Charging," and "Control Board Error" LEDs on FDM will be generated in approximately 10 seconds. This is a normal condition.

28.9 Turn the Reset Test Switch to the TEST position. The notification appliance will sound indicating door closure is about to occur and after a 10 second factory set alarm delay (or longer optional delay) the Fire Door Operator will mechanically release the door.

28.10 Turn the Reset Test Switch to the RESET position and then back to NORMAL. This test verifies a mechanical release in absence of power to the Fire Door Operator.

28.11 Restore power to the Fire Door Operator and raise the door to the fully open position.

28.12 Turn the Reset Test Switch to RESET and back to NORMAL to clear trouble indicator on the Reset Test Switch.

29. AUTOMATIC DOOR CLOSURE TEST

29.1 Open door to full open position.

29.2 Make sure that the "FD OBSTCT CYL" are set to "3" and the "FD STP ON OB" is set to OFF.

⚠ WARNING

Keep the door opening clear of all personnel.

29.3 Place a chair or other suitable obstruction in the normal path of the door. Stand clear of door opening.

29.4 Turn the key-switch to TEST and leave it there. The notification appliance will turn on indicating that a door closure is about to occur. After the factory set 10 second (or optional longer) delay, the Fire Door Operator will initiate a closure.

- Upon contact with the obstruction, the safety edge will reverse the motor and raise the door to the up limit. The Fire Door Operator will make three attempts to close the door, after the third reversal it will release the door through the electrical clutch.

- STAND CLEAR OF ANY PATH THE OBSTRUCTION MIGHT TAKE AFTER BEING CONTACTED BY THE DROPPED DOOR.

- The door will drop onto the obstruction and will fully close once the obstruction is removed. The notification appliance will continue to sound until the alarm condition is cleared. (Unless QUIET @ DN is set to ON).

29.5 Reset the Fire Door Operator by turning the key-switch to the RESET position and then back to NORMAL. (Door may auto open)..

Final Door Install (continued)

30. THREE CYCLE STOP ON OBSTRUCTION TEST

30.1 Open door to full open position.

30.2 Make sure that the "FD OBSTCT CYL" are set to "3" and the "FD STP ON OB" is set to ON.

⚠ WARNING

Keep the door opening clear of all personnel.

30.3 Place a chair or other suitable obstruction in the normal path of the door. Stand clear of door opening.

30.4 Turn the key-switch to TEST and leave it there. The notification appliance will turn on indicating that a door closure is about to occur. After the factory set 10 second (or optional longer) delay, the Fire Door Operator will initiate a closure.

- Upon contact with the obstruction, the safety edge will reverse the motor and raise the door to the up limit. The Fire Door Operator will make three attempts to close the door. On the third attempt, the Fire Door Operator will stop the door on the obstruction. If the obstruction is removed, the Fire Door Operator will wait 10 seconds, and then close the door. Should the door contact a second obstruction, the Fire Door Operator will fully open the door and mechanically release the door.
- STAND CLEAR OF ANY PATH THE OBSTRUCTION MIGHT TAKE AFTER BEING CONTACTED BY THE DROPPED DOOR.
- The notification appliance will continue to sound until the alarm condition is cleared. (Unless QUIET @ DN is set to ON).

30.5 Reset the Fire Door Operator by turning the key-switch to the RESET position and then back to NORMAL. (Door may auto open).

31. AUTO OPEN RESET TEST

31.1 Open door to full open position.

31.2 Make sure that "FD AUTO OPEN" is set to ON.

⚠ WARNING

Keep the door opening clear of all personnel.

31.3 Turn the key-switch to TEST and leave it there. The notification appliance will turn on indicating that a door closure is about to occur. After the factory set 10 second (or optional longer) delay, the Fire Door Operator will initiate a closure.

- Make sure there are no obstructions in the path of the door.

31.4 After the door closes, reset the Fire Door Operator by turning the key-switch to the RESET position and back to NORMAL

- After approximately 3 seconds, the door will automatically start to open to the up limit.

32. NOTIFICATION OFF ON CLOSE LIMIT TEST

32.1 Open door to full open position.

32.2 Make sure that the "HS QUIET @ DN" is set to ON.

⚠ WARNING

Keep the door opening clear of all personnel.

Final Door Install (continued)

32.3 Turn the key-switch to TEST and leave it there. The notification appliance will turn on indicating that a door closure is about to occur. After the factory set 10 second (or optional longer) delay, the Fire Door Operator will initiate a closure.

- Make sure there are not obstructions in the path of the door.

32.4 When the door reaches the down limit, the notification appliances will turn off.

32.5 Reset the Fire Door Operator by turning the key-switch to the RESET position and then back to NORMAL. (Door may auto open).

33. ALARM ON POWER LOSS TEST

33.1 Open door to full open position.

33.2 Make sure that the "FD PWR ALARM" is set to ON.

⚠ WARNING

Keep the door opening clear of all personnel.

33.3 Disconnect power from the Fire Door Operator.

- The device will alarm.
- After the factory set 10 second (or optional longer) delay. Door will mechanically release.

33.4 Re-apply power to operator and Reset the Fire Door Operator by turning the key-switch to the RESET position and back to NORMAL.

After completing all tests, verify the door is in normal operating condition (open or closed) and that all power required for normal operation has been restored to the Fire Door Operator. This equipment is designed to operate with its power source applied.

Note date test procedure completion in the back of this manual.

Leave manual with the operator or building supervisor.

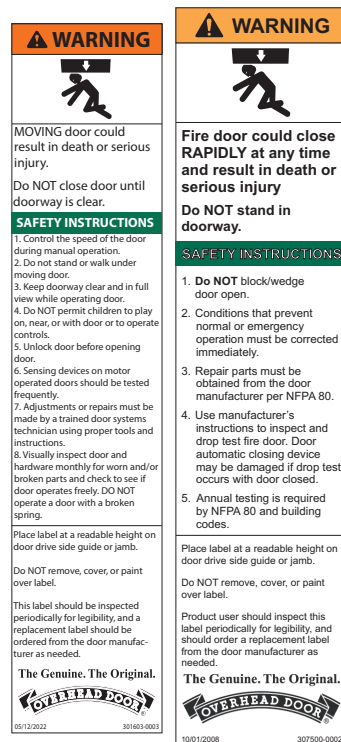
Final Door Install (continued)

STEP 34

PRODUCT SAFETY INSTRUCTIONS

The door installer has the following responsibilities:

- Find labels in hardware box.
- Attach Product Safety Label 301603 and 307500 as directed on each label.
- Demonstrate to the door user the correct way to control the closing speed of the rolling door with crank, hand chain or push-up operation; show that two hands should be used to control the hand chain.
- Inform the door user of the following recommendations per ANSI Z535.4: "Product safety labels should be periodically inspected and cleaned by the product user as necessary to maintain good legibility." The product user should regularly clean each label surface to maintain legibility or order replacement safety labels from the door manufacturer as required to maintain legibility.
- Electric operators must be installed on the door in accordance with the instructions from the manufacturer of the operator.
- Doors with sensing edge must have Safety Label 607873 attached to the bottom bar and at eye level on the drive side guide or jamb.



STEP 35

BOTTOM BAR WARNING DECAL

Doors with sensing edge on the bottom bar must have the warning decal shown below mounted on the bottom bar and at eye level on the drive side guide or jamb.



STEP 36

HAND CHAIN KEEPER

Hand chain operated doors are provided without a hand chain "keeper" provided with rolling service doors; this type chain keeper MUST NOT be installed on rolling fire doors. The hand chain must not be used to hold the fire door in the open position because this could prevent the fire door closing during a fire emergency. For safety reasons the hand chain may be held out of the opening by a wire loop fastened to a wall with the hand chain hanging inside the loop.

STEP 37

CHAIN AND RELEASE CABLE STORAGE

Electric operators have a hand chain and release cables hanging below the operator in the opening. For safety reasons the hand chain and release cables may be stowed in a bag below the operator, or held out of the opening by a wire loop fastened to a wall with the hand chain hanging inside the loop.

Final Door Install (continued)

38. CHECK THE FOLLOWING ITEMS BEFORE HOOD INSTALLATION

- Verify through entire travel of the door that endlocks on each side of the curtain are not rubbing on the headplate brackets. Operate the door several times in order to make this determination.
- Verify that the bottom bar is level in full down and full up positions and that the curtain is not binding on the guides.
- If curtain is level at bottom and not level at top, put shims between curtain and barrel on the low side.
- The guides may be lubricated with paste wax or silicone spray. DO NOT USE GREASE.
- Verify good mechanical connection and tightness of all fasteners, i.e., guides, headplates, set screws and roller chain links.
- Apply all warning labels in the appropriate locations before leaving the installation site.
- Check the area for any extra parts, and be sure these were not omitted in the installation process.
- Re-check all bolted connections to verify all are securely tightened.
- Clean up the area and make sure it is secure, with the handle engaged with the pin provided.
- If the building owner or facility manager is unfamiliar with the product, demonstrate the operation of the door and any optional equipment before leaving the job site. Be sure to demonstrate how to safely drop test the door and point out the importance of Pad-Locking the release handle to avoid possible tampering.
- Have the customer or his representative sign off on the installation using the "Rolling Fire Door Test Drop Release Form" provided in the hardware bag. Keep a completed copy of this form in your maintenance files. Exchange all documentation and keys to locks at this time.
- Be sure to report (in writing) to the factory any complaints or recommendations the customer may register at the completion of the installation that may have a bearing on future designs.
- **IMPORTANT:** WARNING LABEL MUST BE APPLIED TO OPERATED SIDE OF THE ROLLING DOOR, ON THE GUIDE, 5 FEET ABOVE THE FLOOR.

39. HOOD INSTALLATION FOR ONE PIECE HOOD

- Hood flange must be securely fastened to the wall.
- On masonry walls use masonry fasteners through each hole in the hood flange.

- On steel walls the hood flange must be fastened to each connection point by drilling holes through the hood flange and into wall.
- Attach the hood to the hood band on headplate bracket by drilling a 7/32" hole through the hood and band. Then secure hood with 1/4" tapping screw, maximum length 7/16". Longer screws can prevent door closing. Use four screws per bracket. See Figure 45.
- Install hood support at each hood splice if required.

40. INSTALLATION FOR HOOD SEGMENTS AND HOOD SUPPORTS

- Snap a chalk line across the header at the top of headplate brackets.
- Measure the length of the top flange on the left hand hood segment.
- Position top of internal hood support just under chalk line with right hand edge of hood support at a distance from the headplate that is equal to length of top flange on LH hood segment; and fasten hood support to wall.
- Place the LH hood segment of the headplate hood bands and on hood support. The distance between the flame baffle and the hood support should be one inch or less. Flame baffle must be free to drop without interference with hood support. Models 610F and 610FE will have no flame baffle.
- Fasten hood flange to wall with fasteners appropriate for wall construction.
- Place second hood segment onto headplate hood bands and hood support and fasten hood flange to wall with fasteners appropriate for wall construction.
- Attach the hood to hood bands and hood support with 1/4" dia. by 3/8" long tapping screws; longer screws may prevent door closure. Use four screws on each hood band and support. See Figure 45.

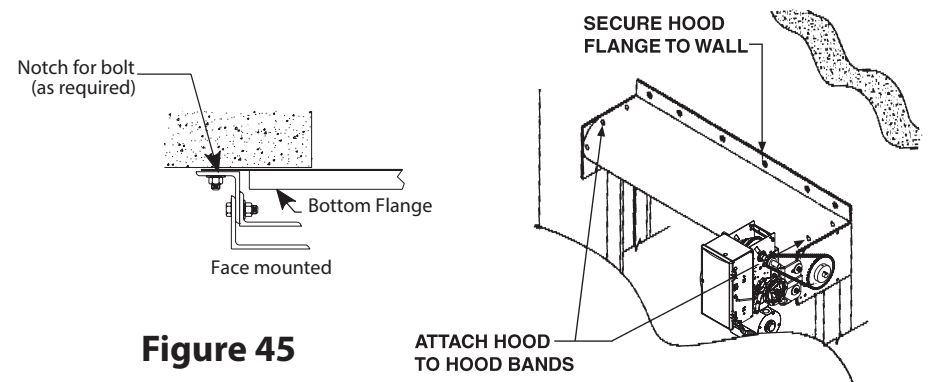


Figure 45

Final Door Install (continued)

41. HAND CHAIN KEEPER

The emergency hand chain for this fire door can be locked.

- Instruct door users to wrap hand chain, as shown in Figure 46.

42. GUIDE SEAL INSTALLATION

NOTE: A Guide Bottom Seal is a UL requirement for each fire door (Model 610FR) with an unlevel floor to keep fire from passing thru the gap under the guide mounted off the floor. The Bottom Seal is not optional and must be installed, when required, to fill the gap.

Guide Angle Assemblies normally rest on the floor, but if one guide assembly is installed above the floor because the floor is not level, then the gap under the guide must be closed by a sheet of metal (Bottom Seal), as shown in Figure 47. The sheet metal must be at least 24 gauge steel. It must be sandwiched between the Guide Angles and bent, as shown below.

NOTE: If door is equipped with slide bolts, notch Bottom Seal, as required for slide bolt to project through.

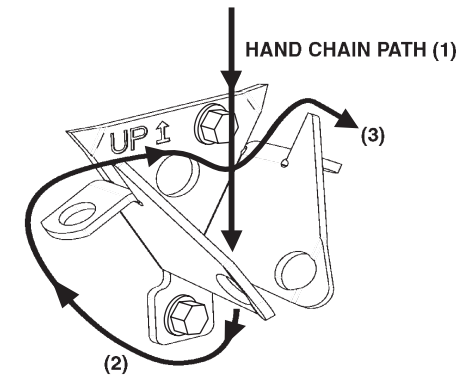
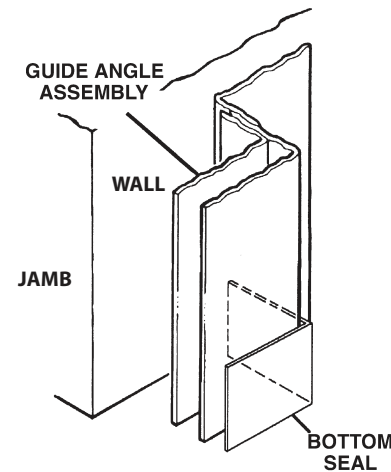
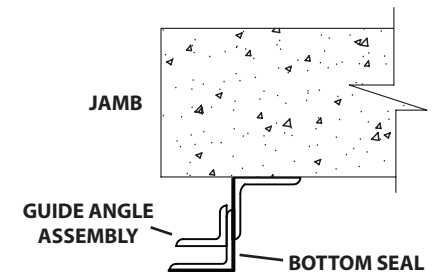


Figure 46



Detail A



Top View of Detail A

Figure 47

Maintenance

REPLACEMENT BOTTOM BAR

This procedure is for replacing a bottom bar and slats or adding additional slats. Verify that the replacement bottom bar and slats are suitable for the door mounted on the wall opening.

- Obtain permission to block traffic thru the opening in the wall.
- Set up barricades or warning cones to prevent traffic thru the opening from both directions and provide a safe work area.
- Open the door.
- Remove the stops from the top of the guides
- Remove the bottom bar and curtain from between the guide angles. Lower the curtain and bottom bar outside the guides to a working position above the floor.
- Remove one windlock, so the damaged bottom bar (and damaged slats) can be removed from the curtain.
- Insert the replacement bottom bar and slats onto the bottom of the curtain and reattach the windlock.
- Carefully raise bottom bar back to the top of guide angles. BEWARE OF RAPID MOVEMENT OF BOTTOM BAR PAST TOP OF THE GUIDES.
- Insert the bottom bar and curtain back into the guide angles and lower the bottom bar 6" into the guides.
- Install locking pliers below bottom bar.
- Attach the stops to the top of the guide angles.
- Remove locking pliers.
- Open and close the door to verify proper operation.
- Open the door and perform a drop test. Reset the door in accordance with STEP 28.
- Remove barricades or warning cones and notify customer that the repair is complete.
- Perform Annual Drop Test In Accordance With Form 830874-0001.

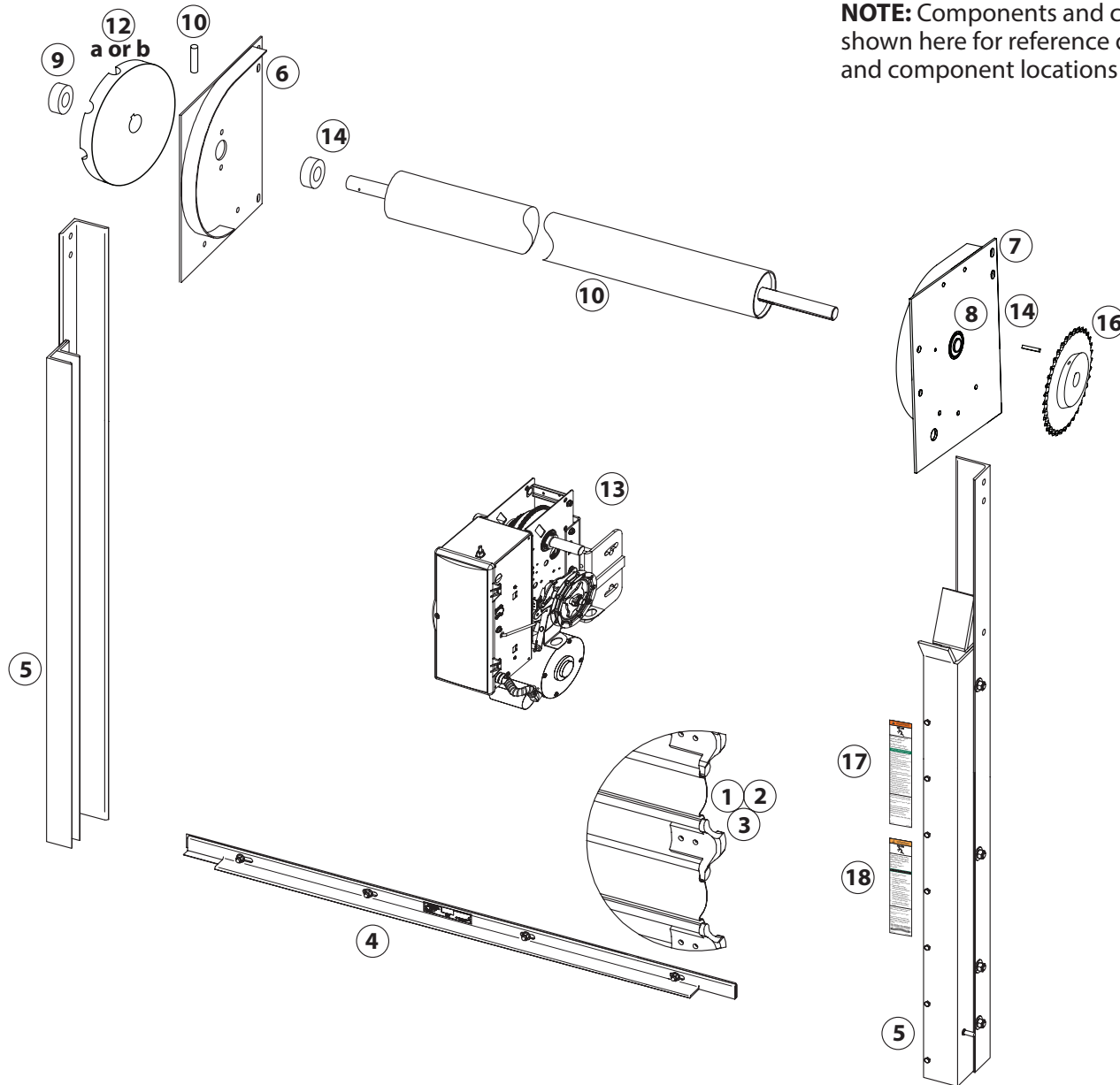
TROUBLESHOOTING

The chart below is a list of possible problems with the operation of the fire door. The possible causes listed are the most common, and are not meant to include all possibilities. With the variety of the product and the field conditions, other factors may be involved. If assistance beyond this troubleshooting chart is needed, please contact your Overhead Door Distributor. Factory support is available to them, should it be necessary, in order to resolve your problem.

Trouble	Possible Cause(s)	Remedy
Door drops very slow during test	*Too much spring tension *Binding of door	*Remove spring tension as instructed in STEP 22 *Check for binding/ interference and correct
Door drops too fast during test	*Too little spring tension	*Add spring tension per STEP 22
Door does not drop during test	*Too much spring tension	*Remove spring tension as instructed in STEP 22
Curtain runs to one side	*Broken endlocks *Barrel not level	*Check and replace *Check and level barrel
Door sticks when closing	*Bent guide angle(s)	*Inspect for bent or kinked guides. *Straighten guides and check width of groove.
Door coil makes cracking sound	*Bent slats	*Inspect, remove and straighten or replace
Door squeaks when operating	*Tight guides *Dirty guides	*Check alignment and distance between guides. *Inspect and clean inside of guide. Do not lubricate with grease. Use WD-40 or silicone spray.
Door is difficult to raise, will not stay open	*Insufficient Counterbalance *Broken spring	*Increase spring tension and repeat drop test procedure *Remove barrel and replace.
Operator moves, door does not operate	*The Operator sprocket or drive sprocket are not keyed to the shaft *The drive chain is broken or has slipped	*Ensure sprockets are secure *Ensure drive chain hasn't broken or slipped.

Breakdown Of Parts

Parts Drawing



NOTE: Fasteners and some parts not shown for clarity. Check the Parts List for any parts.

NOTE: Components and component locations are shown here for reference only. Your unit installation and component locations may be different.

PARTS LIST on next page

Breakdown Of Parts (continued)

Table of Part Numbers

BEFORE ORDERING PARTS LOCATE YOUR ORIGINAL DOOR NUMBER Found on the Nameplate Attached to your Bottom Bar							
Item	Description	Reference Part Number	Built to Order?	Item	Description	Reference Part Number	Built to Order?
1	Curtain Assembly, Complete	830300	Yes				
2	Slat	345525	Yes				
3	Windlock	300672					
4	Bottom Bar Assembly	830500	Yes				
5	Guide Assembly	830400	Yes				
6	Tension end head plate assy	308309	Yes				
7	Drive end head plate assy	308313	Yes				
8	Bearing assembly kit	308399	Yes				
9	Set Collar	604297	Yes				
10	Counterbalance Assembly,	308417	Yes				
11	Tension end stop pin	046167	Yes				
12	Tension wheel, (for 11")	307953	Yes				
13	RSX FDO, 1/2 HP	Inquire	Yes				
	RSX FDO, 3/4 HP	Inquire	Yes				
	RSX FDO, 1 HP	Inquire	Yes				
14	Key, 3/8 x 3.00"	080340-0031	Yes				
	Key, 1/2 x 3.50"	080340-0076	Yes				
15	Hood Assembly (not shown)	307505	Yes				
	Hood Logo, Service Doors (not shown)	307497-0001					
16	Drive Sprocket	086446	Yes				
17	LBL,WARNING,ROLLING,DOORS	301603-0003					
18	LBL,WARNING,RFD	307500-0002					
19	LBL,WARNING,SEN EDGE,ELEC/PNEU (not shown)	607873-0001					
OPTIONAL ACCESSORIES							

"Built to Order" parts are specific to each door manufactured, and may be subject to manufacturer's standard lead-times.

Return Goods Policy

Return Procedure for FACE MOUNTED ROLLING STORM SHELTER DOOR Model 610FR

The Overhead Door Rolling Steel Division will only accept returned materials that are in warranty. Products being returned must be accompanied by a Return Authorization (RA) Tag. To obtain a RA Tag please use the following guidelines;

- Complete Door Systems will not be replaced without prior approval from an Rolling Steel Division Commercial RM Coordinator. Every attempt will be made to correct the malfunction to the installed product in the field.
- To return a defective part, the authorized Overhead Door Distributor must contact the Customer Service Group of the Rolling Steel Division at 1-800-929-2553. The Factory Order number is required (found on the bottom bar of door). The Customer Service Group will issue, via mail, an RA Tag for the defective part.
- Upon receipt of the defective part, the Rolling Steel Division will evaluate the part for a manufactured defect in material and/or workmanship. If it is determined there is a defect, the Overhead Door Distributor will be credited the cost of the part. If it is determined there is not a defect in material and/or workmanship, no credit will be issued.

Limited Warranty



Rolling Service Fire Door and Operator System Limited Warranty Model 610FR

Overhead Door Corporation ("Seller") warrants to the original purchaser of the Model 610FR commercial rolling service fire door ("Door") and the model RSX®, RMX®, or RHX® commercial door operator ("Operator") (Door and Operator purchased and installed together collectively referred to as the "System"), subject to all of the terms and conditions hereof, that the System and all components thereof will be free from defects in materials and workmanship under normal use for the following periods, measured from the date of installation:

- SELLER WARRANTS ALL PARTS AND COMPONENTS OF THE SYSTEM, EXCEPT THE COUNTERBALANCE SPRING AND FINISH, TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR THREE (3) YEARS FROM THE DATE OF INSTALLATION OR 10,000 CYCLES, WHICHEVER OCCURS FIRST.

Seller's obligation under this warranty is specifically limited to repairing or replacing, at its option, any part which is determined by Seller to be defective during the applicable warranty period. Repair or replacement labor for any defective Door part or component is included for a period of one (1) year from the date of installation. After that, any labor charges are excluded and will be the responsibility of the purchaser. Labor charges related to any Operator defect are excluded and will be the responsibility of the purchaser.

This warranty is made to the original purchaser of the System only, and is not transferable or assignable. This warranty does not apply to any unauthorized alteration or repair of the System, or to any System or component which has been damaged or deteriorated due to misuse, neglect, accident, failure to provide necessary maintenance, normal wear and tear, or acts of God or any other cause beyond the reasonable control of Seller. This warranty does not cover replacement batteries or apply to any damage or deterioration caused by door slats rubbing together as the door rolls up upon itself or caused by exposure to salt water, chemical fumes or other corrosive or aggressive environments, whether naturally occurring or man-made, including, but not limited to, environments with a high degree of humidity, sand, dirt or grease. This warranty applies only to Systems (a Door and Operator purchased and installed together simultaneously) and not to any Door or Operator purchased independently from the other, regardless of whether subsequently paired together.

THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

IN NO EVENT SHALL SELLER BE RESPONSIBLE FOR, OR LIABLE TO ANYONE FOR, SPECIAL, INDIRECT, COLLATERAL, PUNITIVE, INCIDENTAL OR CONSEQUENTIAL DAMAGES, even if Seller has been advised of the possibility of such damages. Such excluded damages include, but are not limited to, loss of goodwill, loss of profits, loss of use, cost of any substitute product, interruption of business, or other similar indirect financial loss.

Claims under this warranty must be made promptly after discovery, within the applicable warranty period, and in writing to the Seller or to the authorized distributor or installer whose name and address appear below. The purchaser must allow Seller a reasonable opportunity to inspect any System claimed to be defective prior to removal or any alteration of its condition. Proof of the purchase and/or installation date, and identification as the original purchaser, may be required. This Warranty is not valid unless the fields below are completed by the installer at the time of installation.

¹The number of cycles referred to herein shall be measured by an integrated cycle counter contained in or attached to the Operator. If the cycle counter is rendered inoperable, Seller shall use other reasonable means to determine the cycle count.

DOOR TYPE _____
OPERATOR TYPE _____
ORIGINAL PURCHASER _____
INSTALLATION ADDRESS _____
SELLER: _____
SELLER'S ADDRESS: _____
FACTORY ORDER #: _____
DATE OF INSTALLATION: _____
SIGNATURE OF SELLER: _____