

# ROLLING CURTAIN DOOR INSTALLATION, MAINTENANCE & PARTS MANUAL

**ROLL UP DOORS**

PERFORMANCE • VALUE • SERVICE

## MODEL 944 & 944WL



### WARNING

Read manual thoroughly prior to installing door. Rolling steel doors are large, heavy objects that move with the help of springs under extreme tension. Since moving objects and springs under tension can cause injuries, your safety and the safety of others depends on you reading and following the information in this manual. Check your work prior to operating door.

POTENTIAL HAZARD	EFFECT	PREVENTION
<b>MOVING DOOR</b>	Can Cause Serious Injury or Death	Keep people clear of opening while door is moving. Get help or use support when lifting new door into place.
<b>EXTREME SPRING TENSION</b>	Can Cause Serious Injury or Death	Installation, repairs, and adjustments must be made by a qualified door mechanic using proper tools, methods, and instructions. Before winding torsion spring, make sure door is fully open and curtain is wrapped on barrel.

### NOTE!

**DO NOT CUT BANDS** which hold door in a roll. You will be informed when to cut bands within this manual. No guarantee will be given or responsibility accepted by Trac-Rite Door, Inc. if door is not installed as instructed. For proper operation, follow instructions given.



### WARNING

Components under extreme spring tension can cause **SERIOUS INJURY** or **DEATH**. Adjustments and repairs must be made by a qualified door mechanic using proper tools and instructions. Do **NOT** attempt to adjust door tension unless the door is in the "UP" position. Winding bar should be solid steel 1/2" diameter rod or 3/8" x 1/2" flat.



### CAUTION

Use proper lifting equipment and correct lifting procedures to avoid injury.



### CAUTION

If door springs are not adjusted properly, door damage can result. Door should not slam up or down

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- Parts orders
- Technical help
- Emergency support
- Installation questions
- Damage
- Shortages

## NOTE!

**Door and Hardware:** Upon receiving the door shipment, immediately inspect the door and hardware for damage. Verify the product received with the packing list. Damage and/or shortages should be reported immediately to Trac-Rite customer service at 800-448-8979. Please have your bill of lading and packing list to reference when reporting shortages or damage. Do not install damaged material without authorization from Trac-Rite.

- Is the framed opening width and height the same size as the door ordered? (A x B)
- Are the door jambs plumb and square?
- Is the floor level and square with the door jambs?
- Is there adequate jamb side clearance? (E)
- Is there adequate clearance above the door curtain roll? (G)
- Is there adequate clearance in front of the roll? (F)
- Are the jambs structurally and/or dimensionally adequate to accept door brackets and guides?

Clean the work area. Remove all debris and sharp objects from the area where the door will be placed on the floor. Sweep the area clean. It is also recommended that the door curtain assembly be placed on a piece of cloth or cardboard to help ensure that the finished door surfaces will not be damaged while the door is being prepared for installation.

- Wrenches or sockets 7/16" and 1/2" sizes
- Drill or screw gun
- 3/8" and 7/16" hex drivers (wood mounting)
- 5/16" hex driver and 3/8" drill bit (steel mounting)
- 5/16" and 7/16" hex drivers and 5/16" masonry bit (concrete or masonry mounting)
- C-clamps or vise grips
- Safety glasses
- Work gloves
- Pliers



### 3. BRACKET AND GUIDE ASSEMBLY

**3.1** Position the guides and brackets inside the building on the floor near their mounting location.

**3.2** Place the guides on the ground with the mounting holes facing the ground and the bent curtain lead-in up and toward the door opening (See Figure 2 for example of right hand guide).

**3.3** Now place each bracket with the correct guide. Each bracket is labeled left or right (See Figure 1A).

**3.4** Attach a bracket to each guide with one (1) 5/16" flat head track bolt and one (1) whiz-nut as shown in Figure 2. Nuts go to outside of guide. Make sure the back of the bracket and guide are flush when done mounting both brackets (See Figure 4).

**3.5** Place a protective material on the floor of the work area to protect door nest while on the floor.

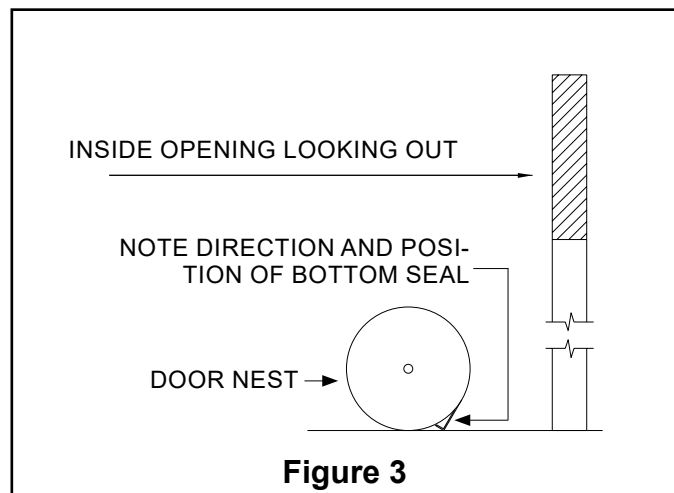
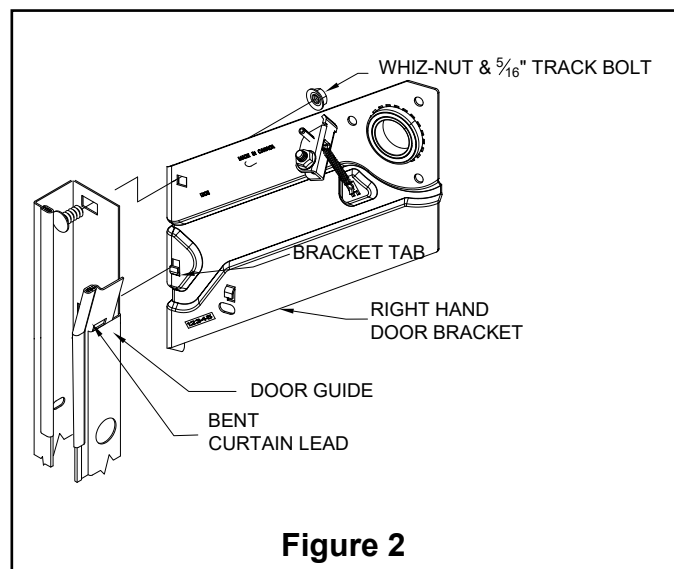
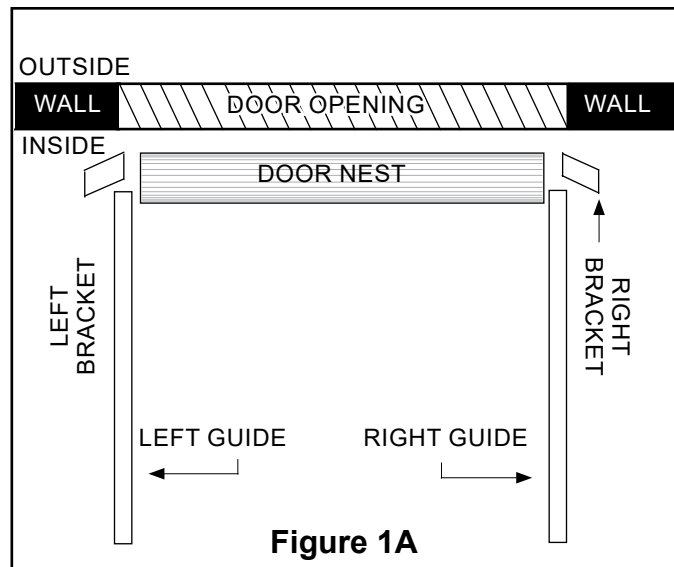
**3.6** With enough room between the guides for the door nest, bring the nest in and lay it between the guides on the floor. Orient the door nest in the opening as shown in Figure 3.

**3.7** Slide the door bracket over the door axle, through the bearing. If needed, rotate the tension wheel to allow the adjustment wheel to slide past the tension adjustment pawl.

**3.8** Install a steel washer onto the axle and secure with cotter pin through axle's hole. If the washer blocks the cotter pin hole, don't use the washer.

**3.9** Using pliers, bend both ends of the cotter pin back to secure it.

Repeat steps 3.7 - 3.9 for other side of door.



## **CAUTION**

Use proper lifting equipment and correct lifting procedures to avoid injury.

## **NOTE!**

DO NOT LIFT BY THE GUIDES! They will bend and become unusable. For larger doors, a third person or lifting equipment may be required.

### **4. Door Mounting**

**4.1** With one person on each end of the door nest, lift it and the attached brackets/guides into position.

**4.2** Temporarily secure door assembly to jamb with C-clamps, vise grips, or bar clamps.

**4.3** Center the door in the opening with the door brackets perpendicular to the mounting surface.

## **NOTE!**

The door brackets will flare away from the opening to allow for the use of the tension system.

#### **Steel jambs**

**4.4s** Position the door assembly in the opening as shown in Figure 4, and drill a 3/8" hole in the jamb to match up with the upper hole in the bracket if one is not there already.

**4.5s** Using the supplied rounded head 5/16" carriage bolts, attach both door brackets to jambs. Drive a tek screw into the lowest small hole through the bracket and into the jamb.

**4.6s** If drilling a hole in the jamb is not possible, replace the supplied 5/16" carriage bolt with two additional tek screws in the small holes in the bracket.

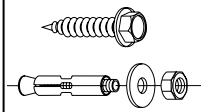
#### **Wood/masonry jambs**

**4.4w** Drill through both slots. Hole sizes for masonry or wood may vary, depending on the type of fastener required. Verify the fastener size before drilling (See Figure 4).

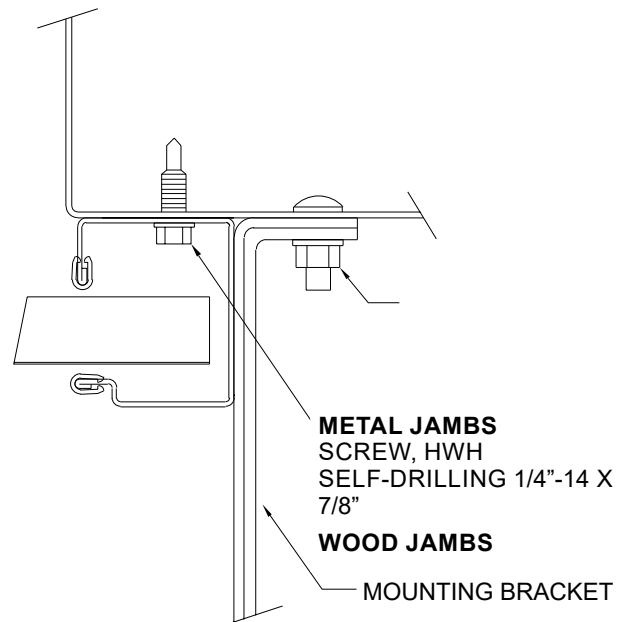
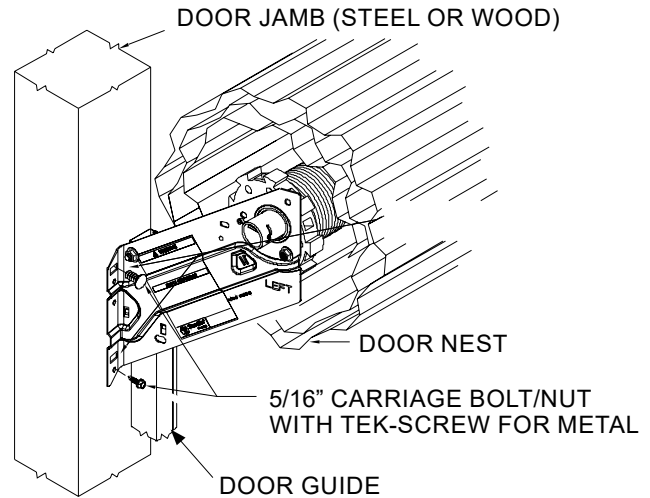
**4.5w** Using the supplied hardware, bolt both door brackets to jambs. Use two (2) fasteners appropriate for your jamb construction.

**4.6** After both door brackets are secured to the jambs, remove temporary clamping devices.

### **ALTERNATIVE FASTENERS**



- 2) WOOD FASTENERS PER BRACKET  
5/16" X 1 5/8" LAG BOLT (P/N 502860)
- 2) MASONRY ANCHORS PER BRACKET  
5/16" X 1 1/2" ANCHOR (P/N 508330)



**Figure 4**

## NOTE!

When installing multiple doors of the same size, confirm the first door operates correctly and is properly tensioned and apply the same tensioning method to all doors.



## WARNING

Care must be taken to secure door so it does not spin around free, as this may cause personal injuries and damage to door curtain. Door is free to spin until door stops and keepers are installed.

### 5. DOOR TENSIONING:

**5.1** Determine the proper number of nest rotations needed to tension the door, based on the door size (See Figure 5). Rotate the nest towards the door opening the appropriate number of turns to tension the system (See Figure 6).

**5.2** Hold the door tightly to prevent unwinding. Remove the stretch wrap and cardboard strips wrapped around the door curtain and discard.

## NOTE!

**DO NOT REMOVE WHITE FELT TAPE** on the inside of the door curtain. It is a door component, NOT packing material.

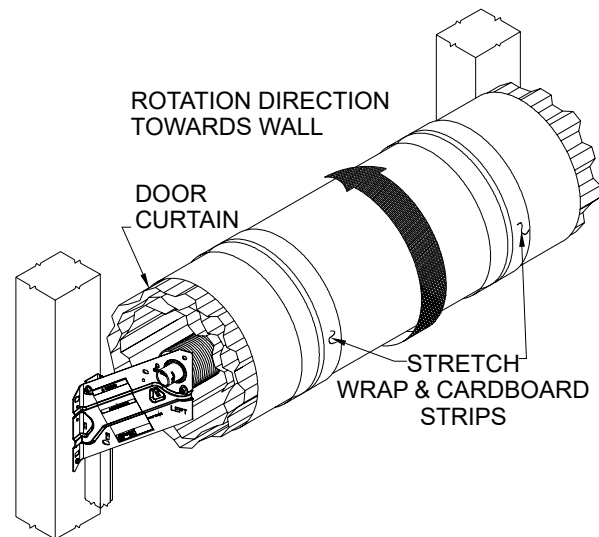
**5.3** Guide the door curtain carefully into the door guides and pull it down to approximately waist level.

**5.4** Hold the door in position until the door stops and keepers are installed.

		HEIGHT	
WIDTH	up to:	7' 4"	12' 0"
	3' 0"	3	
	3' 11"		
	4' 6"		
	5' 0"	4	
	5' 1"	2	
	7' 11"		
	8' 0"	3	3
	9' 0"	2	
	10' 0"		
	11' 0"		
	12' 0"		

Spring Tension (Number of turns)

**Figure 5**



**Figure 6**



## WARNING

Immediately install keepers and door stops. These devices will prevent the door from rolling up out of the guides and possibly causing injury.

### 6. KEEPER AND TOP STOP ASSEMBLY

**6.1** Remove whiz nut from each side of door bottom bar (See Figure 7).

**6.2** Attach one keeper to the bottom interior edge of each side of the door with one (1) 1/4" carriage bolt and whiz nut. (See Figure 7). ) (See Figure 10).

**6.3** Tighten whiz nuts to fasten keepers.

**6.4** Slide the stops up into position so that the hook tab mates with the upper hole on the stop (See Figure 7). Fasten each door stop to each bracket as shown using one (1) 5/16" track bolt and nut through the lower hole of the stop.



## CAUTION

Excessive force in operation may cause damage to the door. If the door binds, adjust guides to allow appropriate movement.

DOOR AXLE ASSEMBLY NOT SHOWN FOR CLARITY

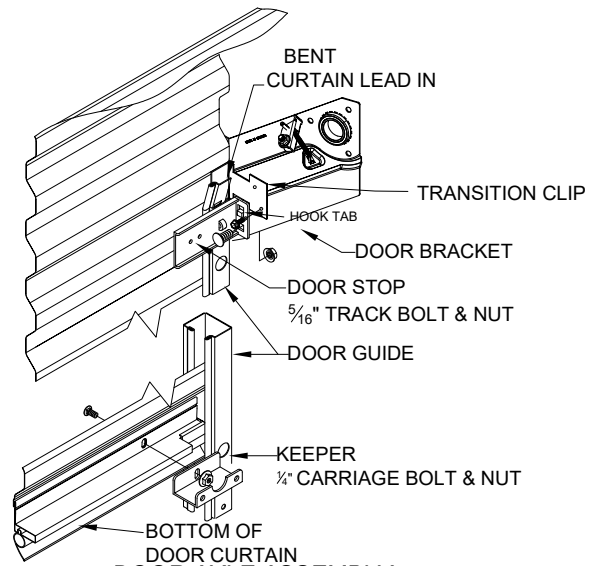


Figure 7

## NOTE!

Optional masonry clips available from Trac-Rite.

### 7. SECURING THE GUIDES

**7.1** Pull the door down to within 6" of the floor (See Figure 8). Adjust the door guides so there is 1/8" to 1/4" of play side to side. If the clearance is too small the door will be hard to operate. Too much clearance will allow the door to move side to side excessively and may cause the door to bind.

**7.2** Attach the guides to the jambs as follows:

**7.2a** For steel jambs, secure with supplied Tek screws, using one fastener per mounting hole.

**7.2b** For wood jambs, secure with supplied lug bolts, using one fastener per mounting hole.

**7.3c** For masonry jambs, secure with supplied tapcon screws, using one fastener per mounting hole.

**7.3d (FOR WINDLOCK MODEL ONLY)** Install the transition clip (P/N 527410) to ensure smooth operation of the wind locks from the door nest to the guides. Slide the clip behind the bent lead in on the guide. Fasten the clip to the door bracket with a Tek screw to hold the clip in place.

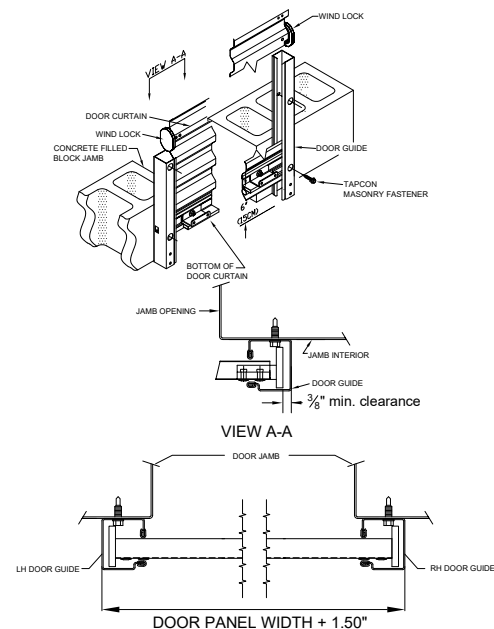
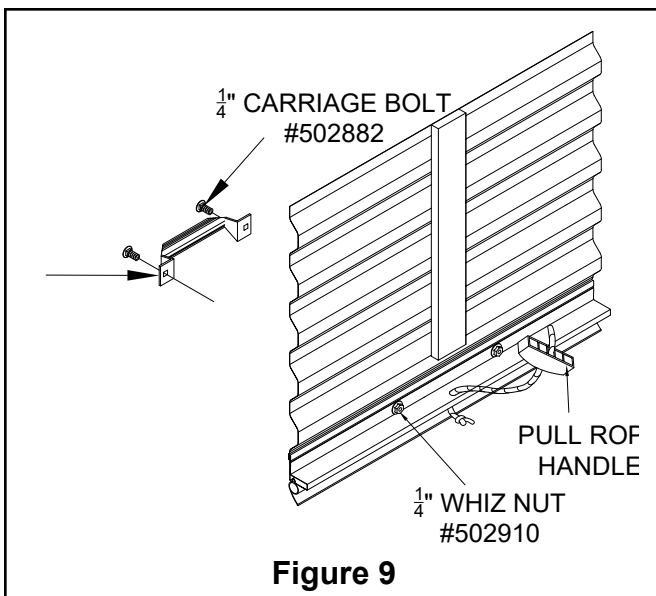


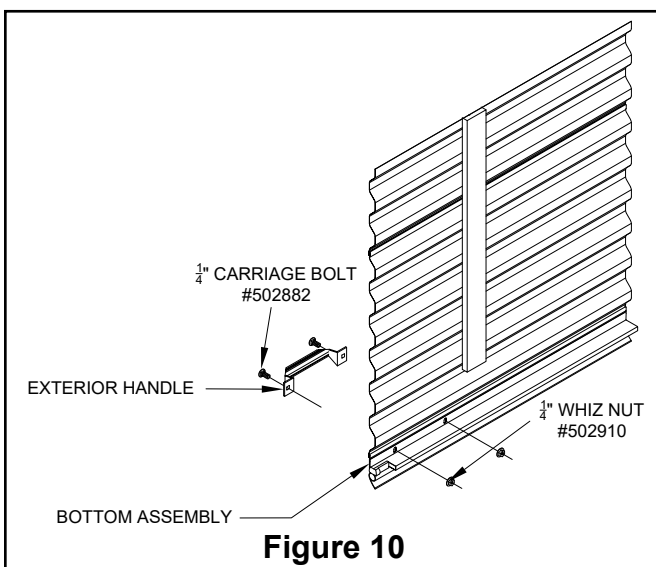
Figure 7 Windlock Door

## 8. FINAL ASSEMBLY

**8.1 Pull rope handle:** Tie a knot in one end of the rope. Slide the plastic handle onto the rope and pull the knot up into the handle. Pass the other end of the rope through the hole in the center of the bottom edge of the door and tie another knot in the end to keep the rope from pulling through (See Figure 9).



**8.2 Exterior handle:** Attach the handle(s) to the bottom exterior edge of the door with two (2) 1/4" carriage bolts and whiz nuts provided (See Figure 10). Doors 6' wide and larger will have two handles.



**8.3 Attach the guide warning label** (See Figure 11) to wall next to the guide at eye level. If mounting to an unfinished surface such as bare masonry or wood, attach the label to a nonporous surface and use mechanical fasteners to mount on wall.



## 9. OPERATORS:

Operators can be installed on either side of door, prior to or after the door is hung (although there may be clearance limitations).

### 9.1 Shaft Extension Installation

**9.1.1** Every door will require a shaft extension to attach the operator of your choice.

**9.1.2** Slide the shaft extension into the end of the axle pipe and line up holes in the axle and the shaft extension. Make sure the keyway on the shaft extension is sticking out of the door axle.

**9.1.3** Secure the shaft extension to the axle using the supplied  $\frac{1}{4}$ " shoulder bolt and nylon insert stop nut.

### 9.2 Direct – Drive operator (Figure 12)

**9.2.1** Slide one shaft collar onto the shaft extension and secure set screw into the keyway.

**9.2.2** Slide the pocket wheel onto the shaft extension until it rests against the shaft collar, then install the  $\frac{1}{4}$ " square key to line up the shaft extension and the pocket wheel. Install and tighten set screws.

**9.2.3** Slide remaining shaft collar onto the shaft extension until it rests against the pocket wheel assembly. Secure with set screw into the keyway.

**9.2.4** Feed hand chain through and around pocket wheel. Make sure the chain is not laying on the ground and free of twists before closing the chain.

### 9.3 Reduced-drive operator (Figure 13)

**9.3.1** Secure the chain hoist body with a shaft collar on each side and tighten set screws into the keyway.

**9.3.2** Install the 41B36 sprocket on the shaft using the  $\frac{1}{4}$ " square key. Make sure this sprocket lines up with the sprocket on the chain hoist. Install and tighten set screws.

**9.3.3** Attach wall "L" bracket to main hoist body using either supplied self-tapping screw or bolt and nut supplied using an existing hole in the case. This will hold the hoist level and keep it from swinging during operation. Secure "L" bracket to wall.

**9.3.4** Feed hand chain through and around pocket wheel. Make sure the chain is not laying on the ground and free of twists before closing the chain.

**9.3.5** Install the roller chain around sprockets using the master link provided.

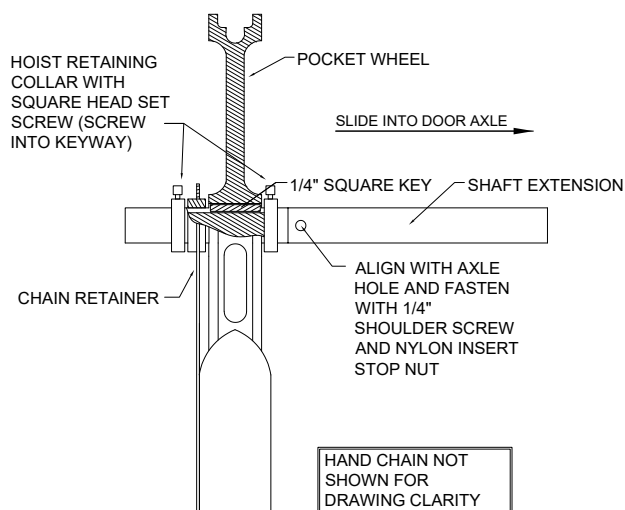


Figure 12

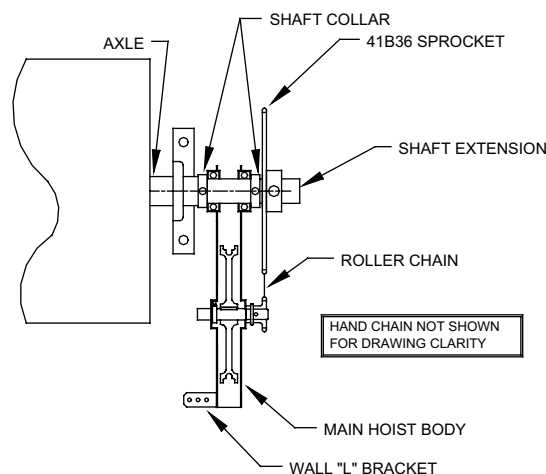


Figure 13

### 9.4 Final Assembly

**9.4.1** Bottom Weight – For best performance install the backup angle supplied by removing nuts and bolts from the bottom bar and then replace once angle is in place.

**9.4.2** Attach chain keeper clip to wall (4' to 5' above floor).





## WARNING

Components under extreme spring tension can cause **SERIOUS INJURY** or **DEATH**. Adjustments and repairs must be made by a qualified door mechanic using proper tools and instructions. Do **NOT** attempt to adjust door tension unless the door is in the “UP” position. Winding bar should be solid steel 1/2” diameter rod or 3/8” x 1/2” flat.

### 10. ADJUSTING DOOR SPRING TENSION

**10.1** A properly tensioned door should be balanced (does not fall closed or spring open) when opened to waist level. Step on the handle to close door fully.

**10.2** To add tension, insert winding bar in the rectangular hole in the tension wheel and pull down until ratchet clicks. Move up slightly until ratchet locks in place (See Figure 14). If more tension is needed, move winding bar to the next hole in the tension wheel and repeat as necessary.

**10.3** To remove tension, insert winding bar into tension wheel and move down 1” to unlock ratchet. Push the tension lock pin toward wall and raise winding bar 2”. Release tension lock pin. Move up 1/8 turn until the ratchet locks in place.

**10.4** If door has two tensioners be sure to equally add or remove tension to each side of door.

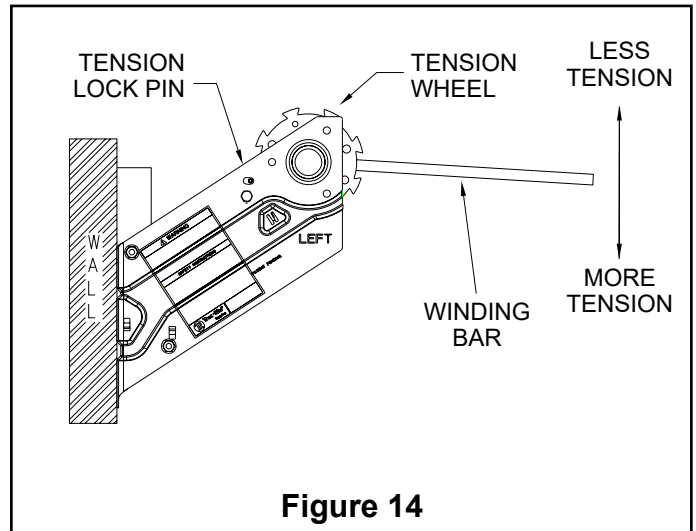


Figure 14



## CAUTION

**Spring Tension is Critical:** Improper tensioning of the spring(s) can result in door damage and reduce the life of your door. The door should not slam up or down during operation. No warranty claims will be honored due to damage caused by improperly tensioned spring(s).

### 11. OPTIONAL FIELD INSTALLED DRAFT STOP OR BRUSH SEAL

**11.1** Close the door before installing the draft stop. Note that with the door down, the curtain may “bow” slightly near the top; this bowing is normal. For the draft stop to be effective, it should follow the “bow” in the door curtain so that it stays in contact across the entire width of the door curtain. Starting at one end, attach to header every 9” with appropriate fasteners. If necessary, trim excess at other end.

**11.2** Close the door before installing the brush seal. Position brush seal so it just touches the flat portion of the inside of the curtain (See Figure 15). Fasten brush seal to jamb every 12” with appropriate fasteners.

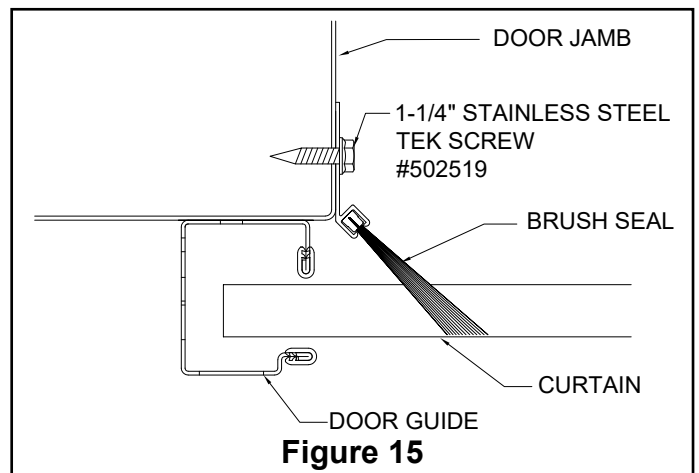


Figure 15

## 12. OPTIONAL INTERIOR LOCK INSTALLATION

**12.1** Position door at waist level.

**12.2** Assemble components as shown in Figure 16, noting that two (2) high collar lock washers are placed over each 1/4" one-way screw to allow the lock bar to slide freely.

**12.3** As the 1/4" screws are being tightened, move the lock bar to assure that the high collar lock washers are inside the slots in the lock bar.

## 13. MAINTENANCE INSPECTION:

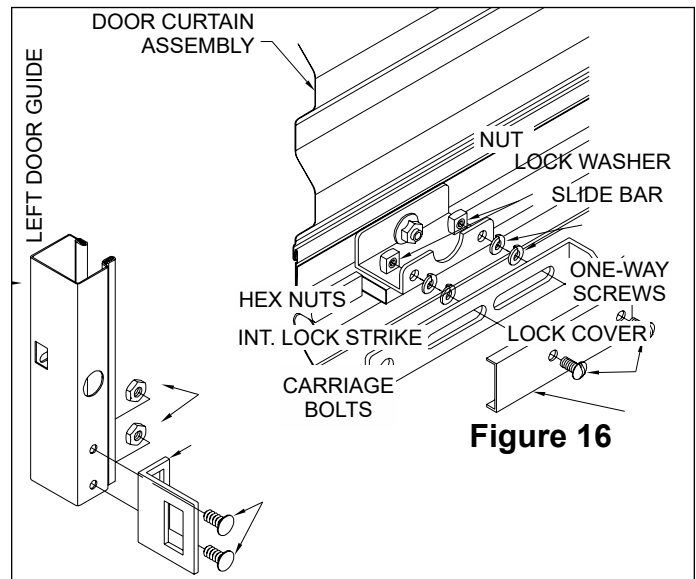
Visually inspect the entire door monthly for general cleanliness and ease of operation.

- Inspect the guides and curtain for wear and/or accidental damage.
- Inspect all fasteners and anchor bolts for loose, damaged, or missing parts.
- If door is equipped with a chain hoist mechanism, inspect it for missing or loose parts.

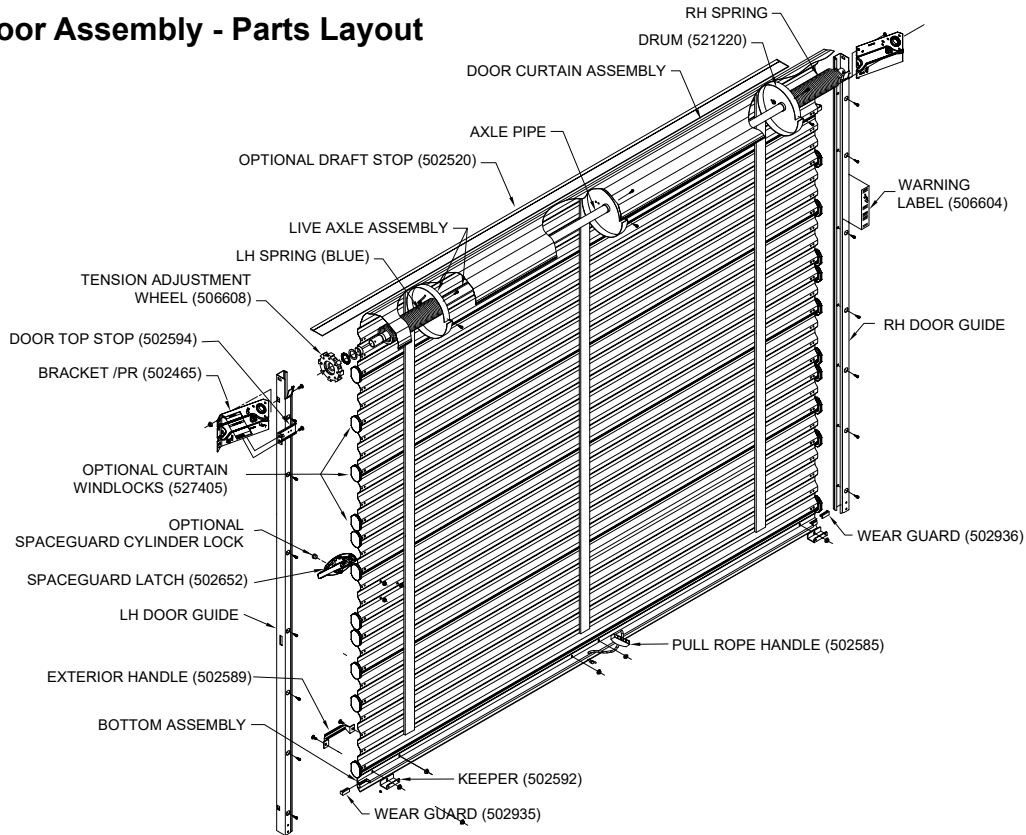
**Cleaning:** No specific cleaning procedures are absolutely required. Clean all parts of the door and guides as needed.

**LUBRICATION:** Lubricate the following every six months. When operating in dusty or wet environments lubrication may be required more often.

- Guides: Open the door. Spray silicone spray or Zep 45™ onto the door guide runners and inside the guide.
- Latch: Spray the slide latch with silicone spray to promote smooth latch operation.
- Chain Hoist Parts: Apply a small amount of oil to roller chain.
- Spring: To ease friction and prevent squeaking apply silicone spray or Zep 45™ across the spring.



## Door Assembly - Parts Layout

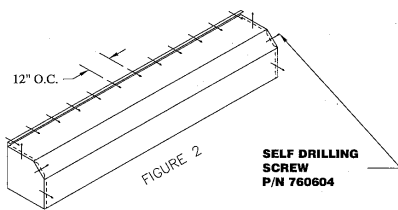
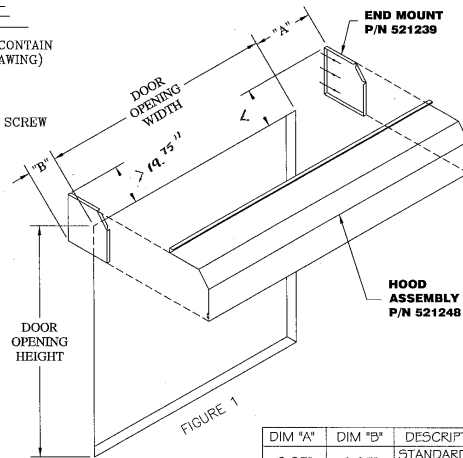


### 944 HOOD INSTALLATION GUIDE

1. UNPACK AND IDENTIFY ALL PARTS. HOOD PACKAGE SHOULD CONTAIN THE FOLLOWING ITEMS: (PART NOS. [P/N] ARE SHOWN ON DRAWING)

- 1 EA. - P/N #521248, 944 HOOD ASSEMBLY
- 2 EA. - P/N #521239, 944 END MOUNT
- 25 EA. - P/N #760604, #12 X 3/4 SELF-DRILLING HEX HEAD SCREW

- 2. MOUNT END MOUNTS TO WALL SURFACE WITH FLANGES FACING TOWARDS THE DOOR, USING SPACING SHOWN IN FIGURE 1 AND APPROPRIATE FASTENERS
- 3. SLIDE HOOD ASSEMBLY OVER END MOUNTS AS SHOWN IN FIGURE 1
- 4. FASTEN HOOD ASSEMBLY TO END MOUNTS USING APPROPRIATE FASTENERS. MAKE SURE THAT END MOUNT IS FLUSH WITH THE EDGE OF THE HOOD ASSEMBLY. (FIGURE 2)
- 5. FASTEN HOOD ASSEMBLY TO HEADER AS SHOWN IN FIGURE 2 WITH APPROPRIATE FASTENERS.



DIM "A"	DIM "B"	DESCRIPTION
6.25"	6.25"	STANDARD DOOR
7.75"	4.75"	DOOR WITH CHAIN HOIST

NOTE: DIM "A" IS PLACED ON SIDE WITH CHAIN HOIST

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