



Trac-Rite®

Door, Inc.

ROLLING CURTAIN DOOR INSTALLATION, MAINTENANCE & PARTS MANUAL WINDLOCK MODEL 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
MOVING DOOR	Can Cause Serious Injury or Death	Keep people clear of opening while door is moving. Get help or use support when lifting door into place.
EXTREME SPRING TENSION	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 told at a later time exactly when to cut bands. No guarantee will be given or responsibility accepted by Trac-Rite Door if door is not installed as instructed. For proper operation, follow instructions given.

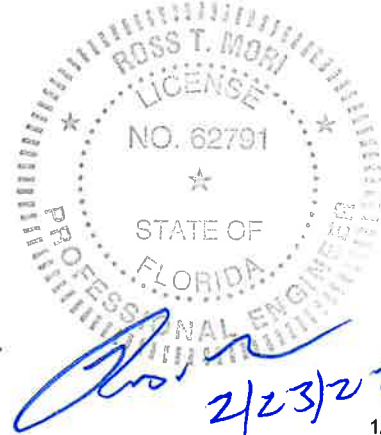


CAUTION

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

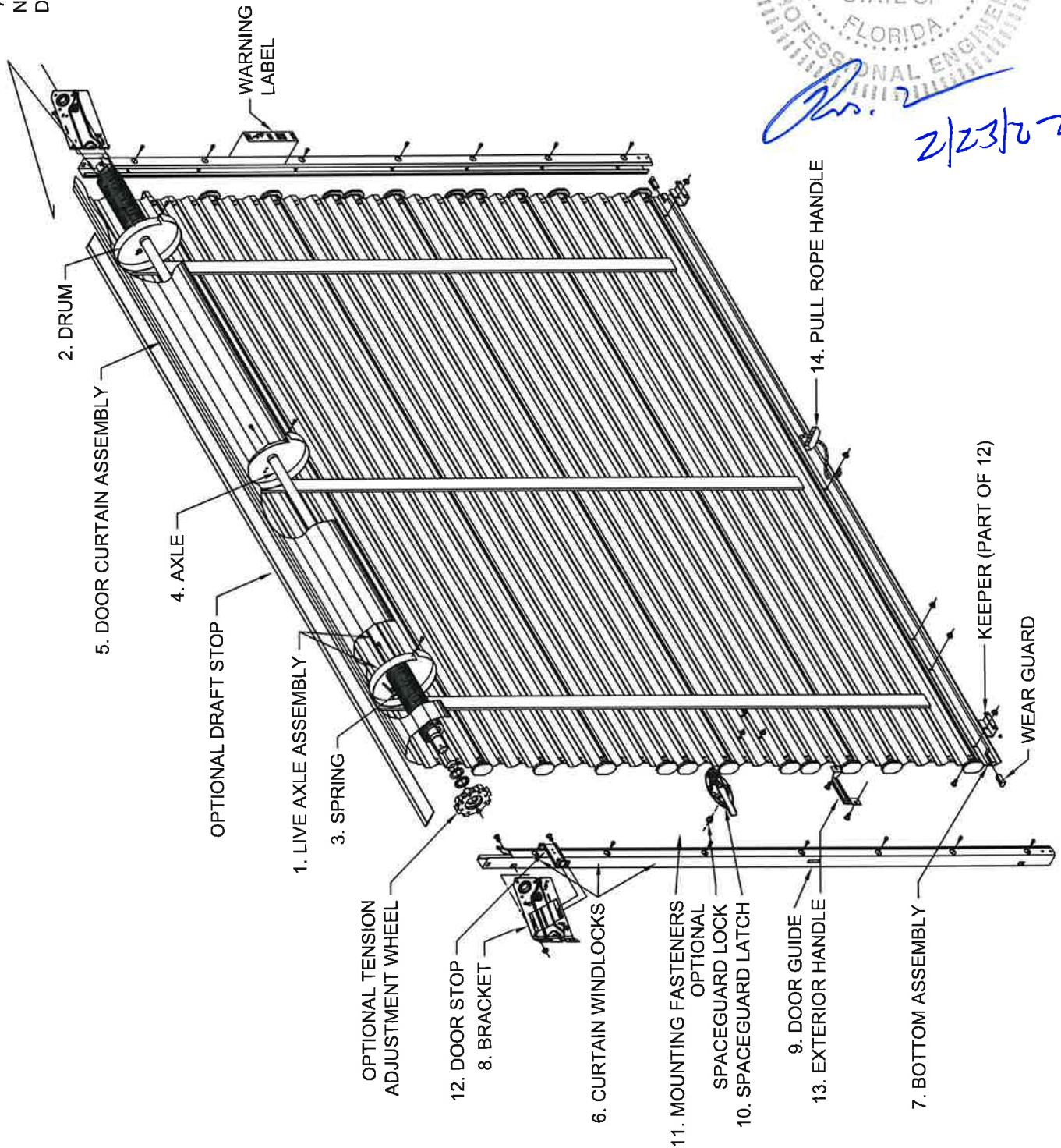
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This Manual **MUST** Be Left with the Owner.



Door Assembly - Parts Layout

OPTIONAL TENSION
ADJUSTMENT WHEEL
NOT SHOWN FOR
DRAWING CLARITY



2/23/02



WARNING

Improper installation of anchoring devices or installation into unsound wall material may result in premature product wear, product failure, property damage or serious personal injury.

Prior to beginning door installation, thoroughly read the instruction manual in its entirety. Please contact Trac-Rite with any questions at 888-700-8722. Answering questions up front will greatly reduce installation miscues.

1. GENERAL:

The following terms are defined as:

Warning - serious personal injury or death can result from failure to follow instructions.

Caution - minor injury or property damage can result from failure to follow instructions.

Note - special attention should be given.

NOTE!

1) Do not install this rolling steel curtain door unless you read and understand the installation instructions!

2) DO NOT CUT THE BANDS which hold the door curtain in a roll! This is performed once the door has been hung in the opening.

3) DO NOT REMOVE WHITE FELT TAPE on the inside of the door curtain. It is a door component, NOT packaging material.

2. INSPECTION:

2.1 Door and Hardware: Upon receiving the door shipment, immediately inspect the door and hardware for damage. Verify the product received with the packing list. Damages 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 with you when reporting shortages or damage. Do not install damaged material without authorization from Trac-Rite.

2.2 Door Opening Inspection:

- Are the framed opening width and height the same dimensions as the door ordered? (See Figure 1.)
- Are the opening jambs plumb and square? (See Figure 1.)
- Is the floor level and square with the opening jambs?
- Is there adequate jamb side clearance? (See Figure 1.)
- Is there adequate clearance above the door head?
- Is there adequate clearance from the face of the wall horizontally?
- Are the jambs structurally and/or dimensionally adequate to accept door brackets and guides? **Trac-Rite is not responsible for the structural integrity of the jamb itself!**

3. PREPARATION:

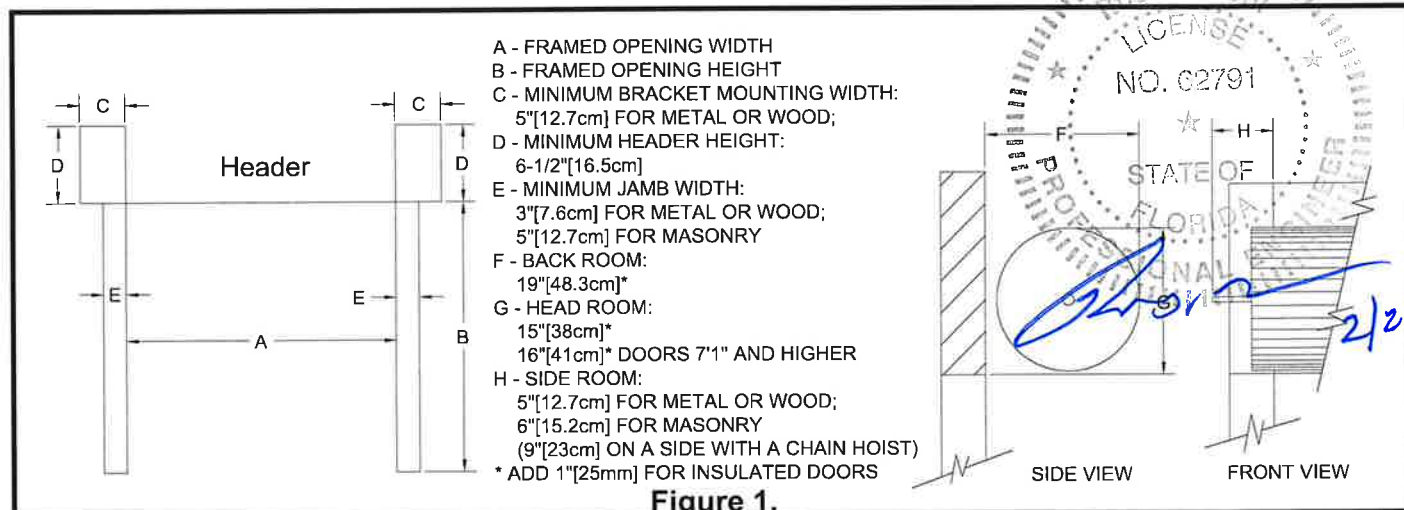
3.1 Clean the work area. Remove all debris and sharp objects from the area where the door will be placed on the floor. It is also recommended that the door curtain assembly be placed on a piece of cloth or cardboard. This will help ensure that finished door surfaces will not be damaged while the door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

3.2 Recommended tools for assembly:

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

4. BRACKET AND GUIDE ASSEMBLY:

4.1 Position the bracket tab on each bracket into the slot in the side guides and slide upward into place. Bolt the left and right door brackets to the door guides with one (1) 5/16" track bolt and whiz nut in each guide. (See Figure 2) **MAKE CERTAIN**



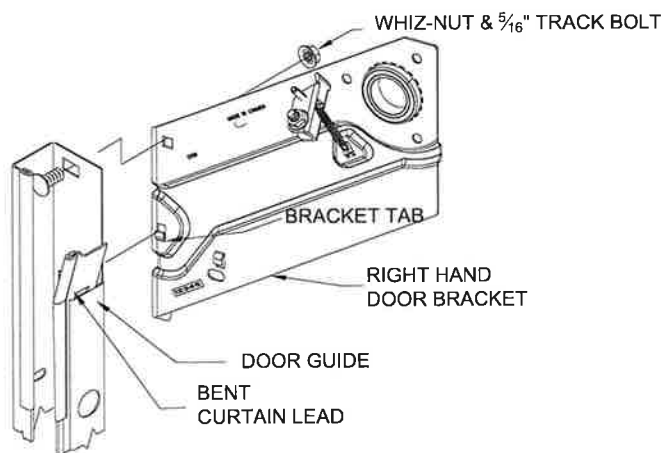


Figure 2.

BACK OF DOOR BRACKET AND DOOR GUIDES ARE FLUSH!!!

4.2 Place the guide/bracket assembly on the floor in the opening, leaving enough room for the door between the assemblies.

4.3 Position the door in the opening as shown in Figure 3. Be sure to place the door on a protective material to prevent damage to the curtain.

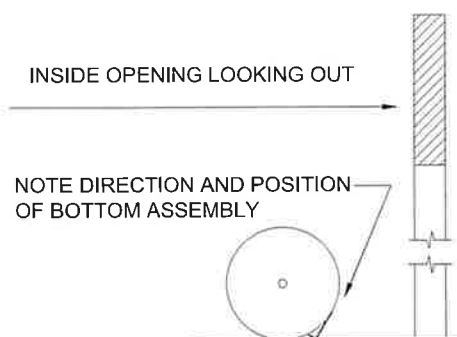


Figure 3.

4.4 Slip the axle end through the bearing in the door bracket. Rotate the tension release pawl to allow the tension adjustment wheel to slide pass. Install the second steel washer onto the axle and secure with a cotter pin through the hole in the axle end to keep the door bracket in place (omit washer if it blocks cotter pin hole). Repeat on other end if installing dual tension adjustment systems.



CAUTION

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

5. DOOR MOUNTING:

5.1 With one person on each end of the door, lift the curtain roll and position the door and guides in the approximate correct final

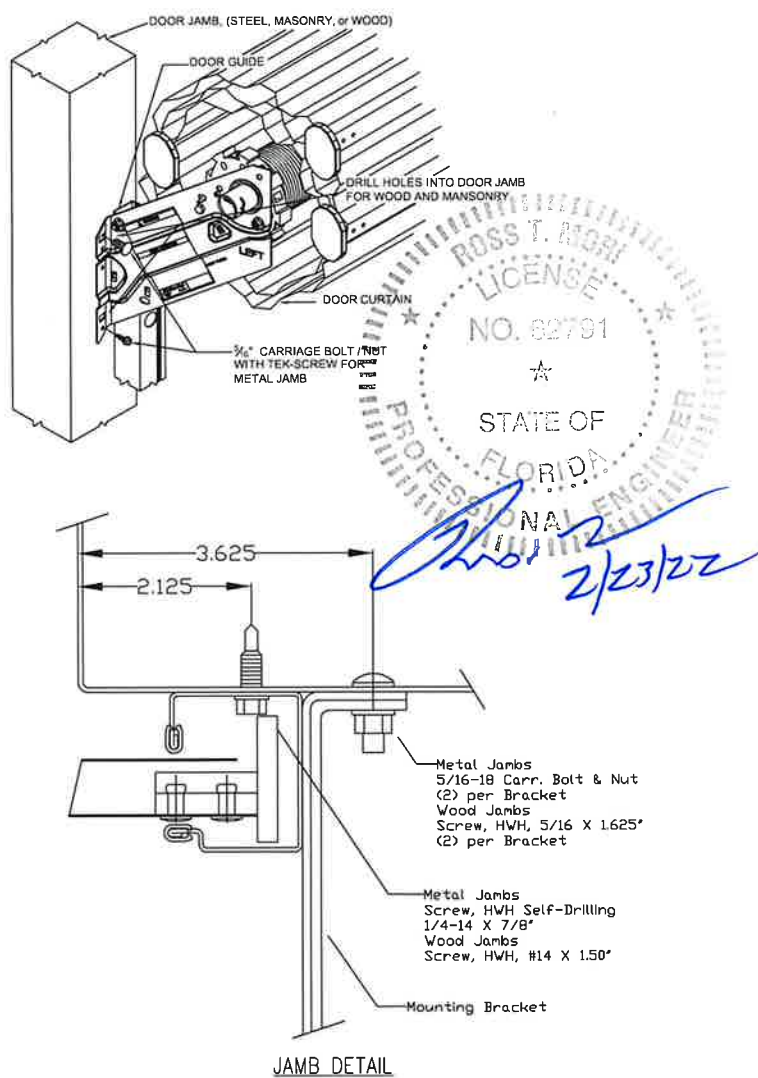
position. **DO NOT LIFT THE DOOR BY THE GUIDES;** they will bend and become unusable!

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

A third person or lifting equipment may be required to help position larger doors.

5.2 Center the door in the opening with the door brackets perpendicular to the mounting surface and guides setback 1" from edge of opening (1 1/4" for masonry). For steel jambs, drill a 3/8" diameter hole through the top slot in the door bracket into the door jamb. For masonry jambs, drill 5/16" holes through both slots. For wood jambs, drill 1/8" holes through both slots. Verify the fastener size before drilling. (See Figure 4).

Figure 4.



5.3 Bolt both door brackets in place with one 5/16" carriage bolt and nut through the top slot and one Tek screw into the bottom 1/4 inch hole of each bracket (for steel jambs) or two of the proper fasteners for masonry or wood construction.

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

NOTE!

(For Steel Jambs: If unable to use bolt please replace with (2) – Tek screws.)



WARNING

Care must be taken that the door does not spin around free, as this may cause personal injuries and damage to door curtain. Door is free to spin until Step 8 is completed.

6. DOOR TENSIONING:

6.1 The door spring(s) will have 1/4 turn of tension from Step 5. Rotate the number of turns shown in Figure 5, in the direction shown in Figure 5. Door balancing may require fine tuning.

		HEIGHT									
		3-0	4-0	5-0	6-0	7-0	7-1	8-0	9-0	10-0	10-4
W I D T H	3-0										
	3-11	3									
	4-6										
	5-0	4					3				
	5-1										
	7-11	2									
	8-0										
	9-0	3					3				
	9-1										
	10-8	2									

Spring Tension (Number of Turns)

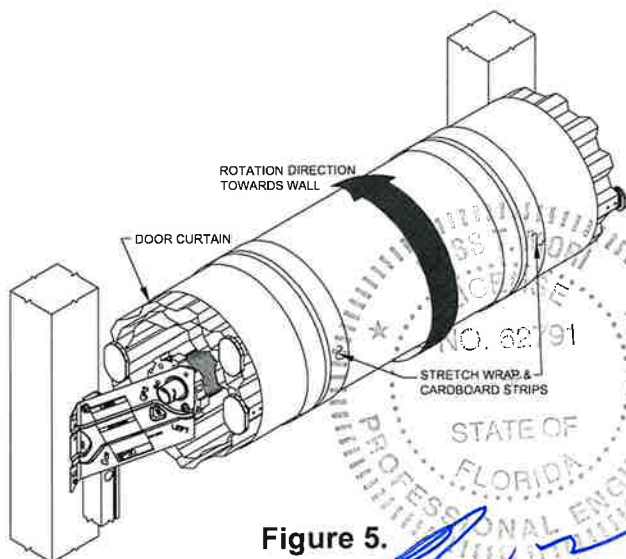


Figure 5.

6.2 Hold the bottom edge of the door tightly to prevent unwinding. Remove the stretch wrap and cardboard strips wrapped around the door curtain and discard.

6.3 Guide the door curtain carefully into the door guides, moving doorstops aside, to allow bottom to pass, and pull it down to approximately waist level. (See Figure 6).

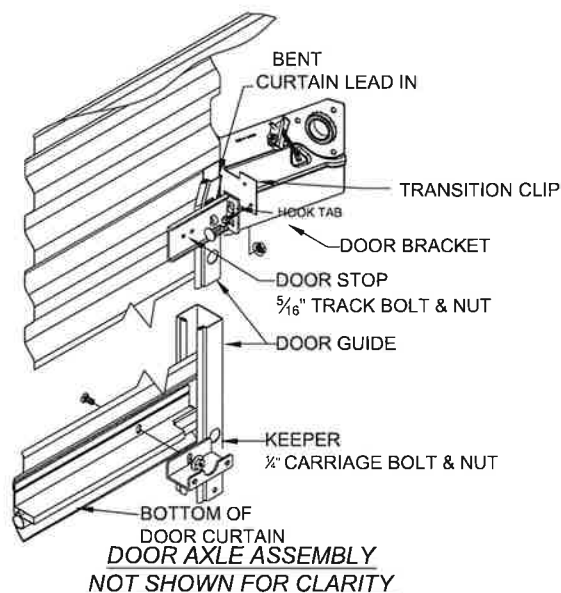


Figure 6.

7. KEEPER AND TOP STOP ASSEMBLY:

7.1 Attach the two keepers to the bottom interior edge of the door with one (1) 1/4" carriage bolt and whiz nut in each keeper. (See Figure 6).

7.2 Slide the stops up into position so that the hook tab mates with the upper hole on the stop (See Figure 6). 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.



WARNING

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

7.3 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.

NOTE!

When installing multiple doors of the same size, confirm the first door is properly balanced (After Step 10) and apply the same balancing method to all doors.

7.4 Test the door to ensure that it will travel up and down smoothly without any excessive force or binding. See Step 10 to adjust spring tension.

8. GUIDE PLACEMENT:

8.1 Pull the door down to within 6" of the floor. Adjust door guides so there is 3/8" clearance between the windlock on the door curtain assembly (shown in Figure 7) and the inside of the door guides.

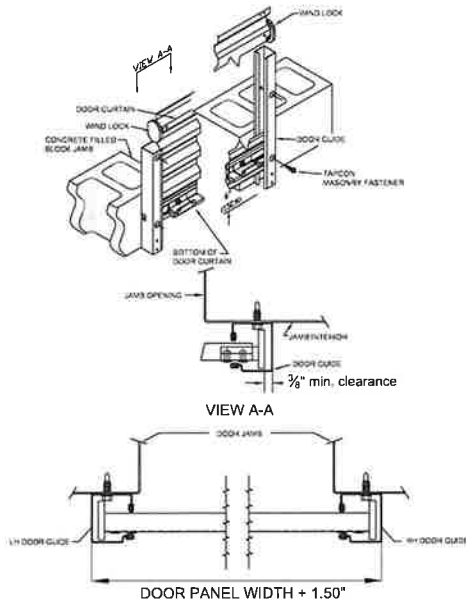


Figure 7.

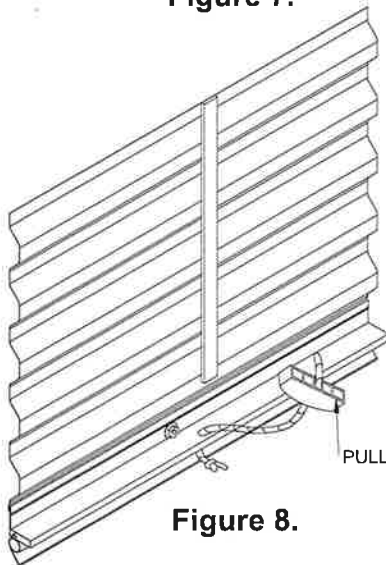


Figure 8.

9. FINAL ASSEMBLY:

9.1 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 8.

9.2 Exterior Handle/Step Bar: Attach the handle to the bottom exterior edge of the door with two (2) 1/4" carriage bolts and whiz nuts provided. See Figure 9.

9.3 Attach guide warning label (shown in Figure 10) to wall next to the guide at eye level. If mounting to an unfinished surface (bare masonry or wood) attach label to a nonporous surface and use mechanical fasteners to mount on wall.

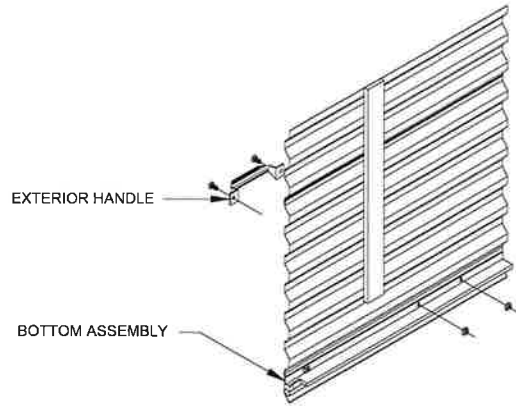


Figure 9.

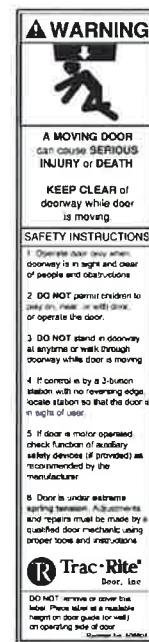


Figure 10.



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 and "LOCKED" in place. Winding bar should be solid steel 1/2" dia. rod or 3/8" X 1/2" flat.

10. TENSION ADJUSTMENT SYSTEM USE:

10.1 To remove tension, insert winding bar into tension wheel and move down 1" to unlock ratchet. Push tension lock pin toward wall and raise winding bar 2". Release tension lock pin.

Move up 1/8 turn until ratchet locks in place.

10.2 To add tension, insert winding bar and move down until ratchet clicks after 1/8 turn. Move up slightly until ratchet locks in place. (See Figure 11.)

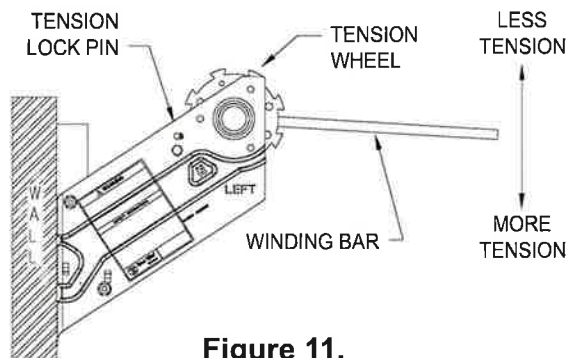


Figure 11.

10.3 If dual tension adjustment systems are in use, apply equal amount of tension to each spring. This will balance the door properly.

11. OPTIONAL FIELD INSTALLED DRAFT STOP OR BRUSH SEAL:

11.1 Place the door in the closed position before installing the draft stop. Note that with the door down, the curtain may bow slightly near the top towards the inside; 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 inches with appropriate fasteners, trim excess at other end if necessary.

11.2 Place the door in the closed position before installing the brush seal. Position brush seal so that it just touches the flat portion of the curtain. (See Figure 12.) Fasten brush seals to jamb every 12 inches with appropriate fasteners.

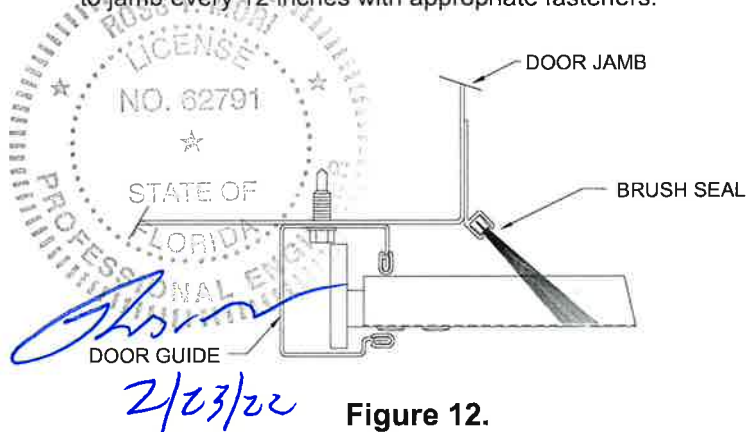


Figure 12.



CAUTION

Excessive force in operation may cause damage to the door.

12. OPTIONAL INTERIOR LOCK INSTALLATION:

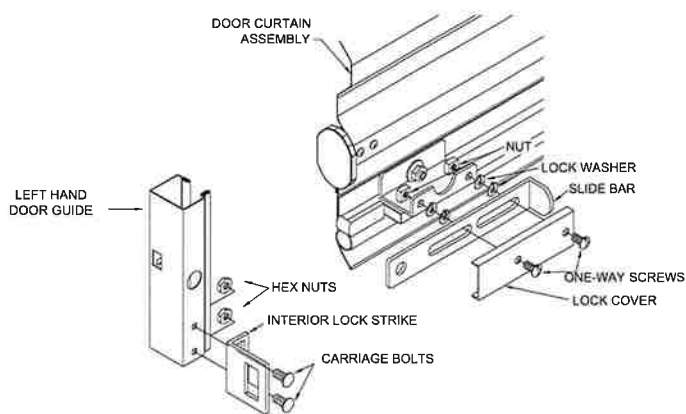


Figure 13.

12.1 Position door at waist level.

12.2 Assemble components as shown in Figure 13, noting that two (2) high collar lock washers are placed over each 1/4" one-way screw to allow the lockbar to slide freely.

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

12.4 Mount the lock strike to the bottom of each guide as shown with two (2) 1/4" carriage bolts and jam nuts through the pre-punched holes.

13. MAINTENANCE:

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

13.1.1 Inspect the guides and curtain for wear and/or accidental damage.

13.1.2 Inspect all fasteners and anchor bolts for loose, damaged or missing parts.

13.1.3 If door is equipped with a chain hoist mechanism, inspect it for missing parts.

13.2 CLEANING: No specific cleaning procedures are required for your Trac-Rite Rolling Door. Clean as needed following good housekeeping practices.

13.2.1 Periodically clean any accumulated dirt from guides; remove any debris from the guide channels at the floor.

13.3 LUBRICATION: Lubricate the following every six months, or more often in dusty and/or wet operating environments.

13.3.1 Spring(s): Close the roll-up door so that the door springs are visible. With an oil pump can, pump a bead of oil across the length of each spring. Operate the door several times. The oil will work its way around the spring to help reduce friction and corrosion.

13.3.2 Guides: Open the door. Spray silicone spray, Pledge™, or Zep 45™ onto the door guide runners and inside the guide.

13.3.3 Lock: Spray the slide lock with silicone spray or Pledge™, to promote smooth lock operation.

13.3.4 Chain Hoist Parts: Apply a small amount of oil to roller chain.

14. REPLACEMENT PARTS:

Part No.	Description
Locks:	
506556	Lock Package, SpaceGuard, Rigid Rib,
Standard	
502705	SpaceGuard Cam Lock
502721	Lock Out Key
521226	Interior Lock Package

Hardware:

502465	Brackets, Right Hand/ Left Hand, 944
502510	18" Rope (< 8' tall)
502680	42" Rope (8' - 10' tall)
508840	72" Rope (10' tall)
502595	Handle Package
521230	Steel Jamb Package
521231	Wood Jamb Package
521233	Concrete Jamb Package
506582	Winding Bar

Springs:

522300	RH, 3" ID, 0.218 wire, 46 coils, 10.25"
522301	LH, 3" ID, 0.218 wire, 46 coils, 10.25"
522305	RH, 3.25" ID, 0.250 wire, 62 coils, 15.75"
522306	LH, 3.25" ID, 0.250 wire, 62 coils, 15.75"
522310	RH, 3.375" ID, 0.263 wire, 60 coils, 16"
522311	LH, 3.375" ID, 0.263 wire, 60 coils, 16"

Miscellaneous:

502305	Replacement Bottom Seal
521264	Felt Tape, 2"
502065	Guide Runner
502520	Draft Stop
504300	Touch-up Paint, Evergreen
504301	Touch-up Paint, Sunset Orange
504302	Touch-up Paint, Polar Blue
504303	Touch-up Paint, Royal Blue
504305	Touch-up Paint, Desert Tan
504306	Touch-up Paint, Continental Brown
504307	Touch-up Paint, Garnet
504308	Touch-up Paint, Iced White
50430A	Touch-up Paint, Cedar Red
504325	Touch-up Paint, Shale
504323	Touch-up Paint, Bright White
504329	Touch-up Paint, Patriot Red
504332	Touch-up Paint, Lime Green
504326	Touch-up Paint, UB Yellow
504290	Touch-up Paint, Light Stone
504331	Touch-up Paint, Ash Gray

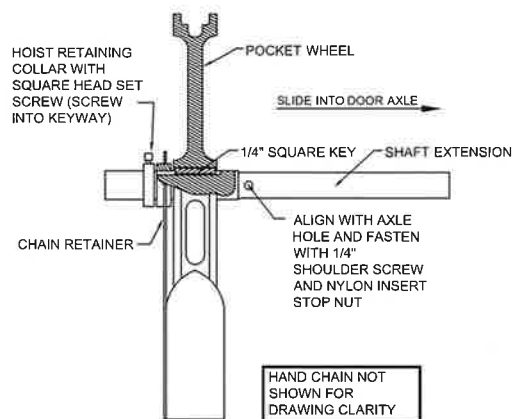


Figure 14

15.2 Reduced-drive operator — 4:1 chain hoist installation as shown in Figure 15.

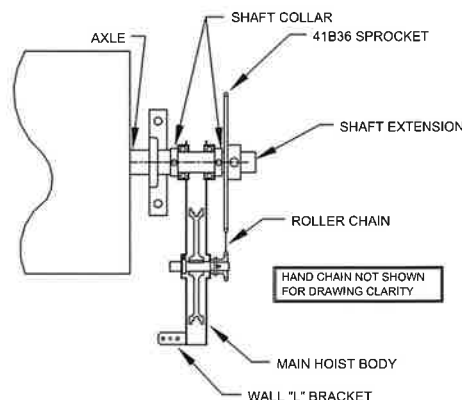


Figure 15

15.2.1 Align hole in shaft extension with axle hole and fasten with 1/4" shoulder screw and nylon insert stop nut.

15.2.2 Assemble onto shaft extension as shown, making certain 41B36 sprocket is aligned with the sprocket on the hoist body and the 1/4" x 1/4" key is in place. Tighten all set screws.

15.2.3 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.

15.2.4 Feed hand chain through and around pocket wheel. Shorten chain so it does not lay on the floor, (1' to 3' off floor is ideal). Close chain, making certain there are no twists in the chain.

15.2.5 Install roller chain around sprockets with connecting link provided.

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

15. OPERATORS:

15.1 Direct-drive operator -- Direct drive chain hoists can be installed on either side of the door, prior to or after the door is hung (although there may be clearance limitations). Please reference Figure 14 for specifics.

