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DOOR INSTALLATION INSTRUCTIONS SERIES 5652

WARNING

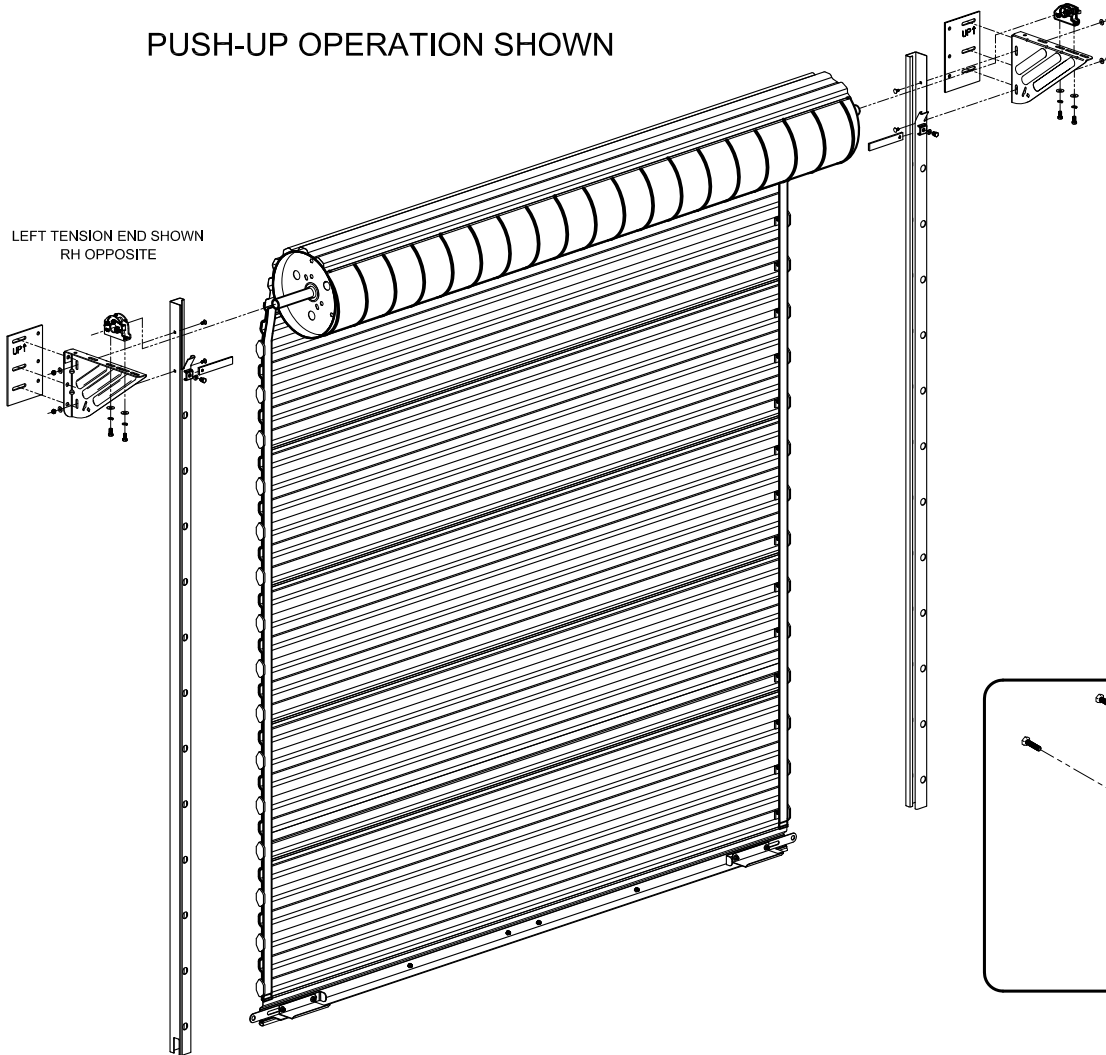
A ROLLING DOOR IS A LARGE HEAVY OBJECT THAT MOVES WITH THE HELP OF SPRINGS UNDER EXTREME TENSION AND ELECTRIC MOTORS. MOVING OBJECTS, SPRINGS UNDER TENSION AND ELECTRIC MOTORS CAN CAUSE SERIOUS INJURIES OR DEATH. FOR YOUR SAFETY AND THE SAFETY OF OTHERS, FOLLOW THESE INSTRUCTIONS.

CAUTION

USE PROPER LIFTING EQUIPMENT AND CORRECT LIFTING PROCEDURES TO AVOID DAMAGE OR PERSONAL INJURY.

PUSH-UP OPERATION SHOWN

LEFT TENSION END SHOWN
RH OPPOSITE



CAST AXLE SUPPORT BRACKET - 1-5/16" HAND CHAIN OPERATION ONE EACH PER DOOR

STAMPED AXLE SUPPORT - 1-5/16" PUSH-UP & ELECTRIC OPERATION ONE EACH PER DOOR

TENSIONER ASSEMBLY - 1-5/16" ONE EACH PER DOOR

FIGURE 2

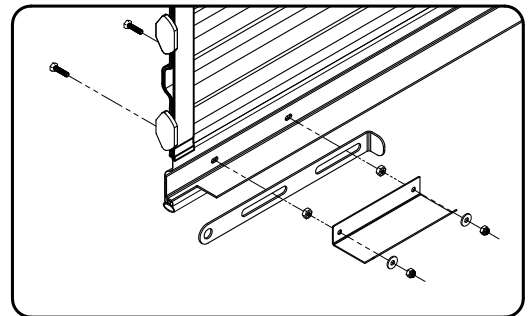


FIGURE 1

WARNING

DO NOT CUT TAPE AND PLASTIC WRAP THAT SECURES THE DOOR ASSEMBLY UNTIL YOU ARE DIRECTED TO DO SO IN STEP 14D. AMARR GARAGE DOORS WILL NOT GUARANTEE OR ACCEPT RESPONSIBILITY FOR DOORS THAT ARE NOT INSTALLED AS INSTRUCTED PER INSTALLATION INSTRUCTIONS. PLEASE READ AND UNDERSTAND ALL INSTRUCTIONS BEFORE BEGINNING INSTALLATION PROCESS.




POTENTIAL HAZARD	EFFECT	PREVENTION
 MOVING DOOR	CAN CAUSE SERIOUS INJURY OR DEATH	<ul style="list-style-type: none"> DO NOT STAND OR WALK UNDER A MOVING DOOR. KEEP DOOR IN FULL VIEW AND FREE OF OBSTRUCTIONS WHILE OPENING DO NOT ALLOW CHILDREN TO OPERATE THE DOOR OR DOOR CONTROLS.
 ELECTRIC SHOCK	CAN CAUSE SERIOUS BURNS OR DEATH	<ul style="list-style-type: none"> TURN OFF ELECTRICAL POWER BEFORE REMOVING OPERATOR COVER. OPERATOR MUST BE ELECTRICALLY GROUNDED.
 EXTREME SPRING TENSION	CAN CAUSE SERIOUS INJURY OR DEATH	<ul style="list-style-type: none"> INSTALLATION, REPAIRS, AND ADJUSTMENTS MUST BE MADE BY A TRAINED ROLLING SERVICE DOOR SYSTEMS TECHNICIAN USING PROPER TOOLS AND INSTRUCTIONS. DOOR MUST BE IN FULL OPEN POSITION WHEN MAKING ADJUSTMENTS.

TABLE 1: Wall Fasteners for jamb attachment of Brackets and Guides

ITEM	JAMB	FASTENERS	DRILL SIZE
BRACKETS	Steel	3/8-16 x 1" HWH Type 23 Thd Cutting Screw Or 3/8-16 x 1 1/4" Hex Bolt and Nut	"S" (.348") 7/16"
	Concrete or Filled Block	3/8" x 1 3/4" Powers Wedge-Bolt	Powers 01316
GUIDES	Steel	1/4-14 x 1" TEKS Self-Drilling Screw	None
	Concrete or Filled Block	1/4" x 3" Powers Wedge-Bolt OT	ANSI 1/4" x 6" min usable length (8" OAL)

MOUNTING PLATE
TWO PROVIDED AND REQUIRED
FOR INSTALLATION TO METAL
BUILDING STEEL JAMBS ONLY

MOUNTING PLATES TO BE LEVEL

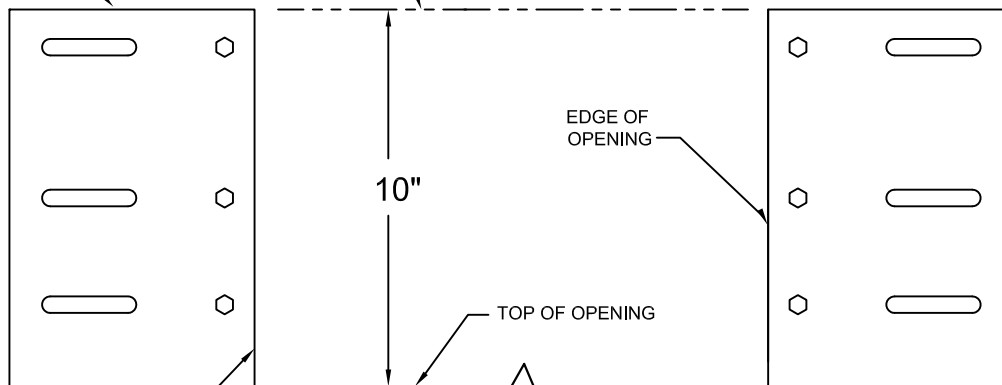


FIGURE 3

MOUNTING PLATE EVEN
WITH EDGE OF OPENING

BACK TO BACK OF GUIDES
(opening width + 4-9/16")

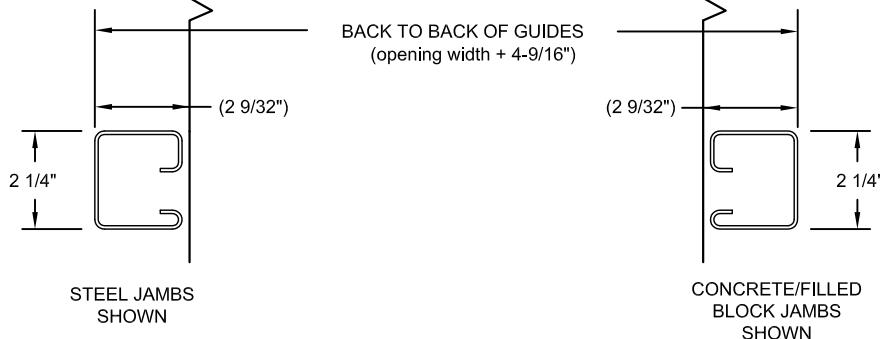


FIGURE 4

FIGURE 3 & 4 - Mounting Plate and Guide Installation

FIGURE 5A: SIDEROOM CLEARANCE REQUIREMENT CHART

OPERATION	BACK OF GUIDE	OUTSIDE OF BRACKET TENSIONER END	OUTSIDE OF BRACKET DRIVE END (NON-TENSIONER)	OUTSIDE OF HAND CHAIN DRIVE	END OF AXLE CLEARANCE
PUSH-UP	2-9/32"	3-7/8"	3-7/8"	-	6-3/4"
CHAIN HOIST	2-9/32"	3-7/8"	3-7/8"	6-1/8"	6-3/4"
JACK SHAFT MOTOR	2-9/32"	3-7/8"	5-3/8"	-	6-3/4"
PANTHEON	2-9/32"	3-7/8"	6-3/8"	-	10-3/4"

IMPORTANT NOTES

- Dimensions are referenced from edge of opening
- Tensioner end and drive end can be installed at either end of door assembly
- FOR CRITICAL FITS DUE TO REDUCED AVAILABLE HEADROOM or SIDEROOM CLEARANCES, CONSULT FACTORY

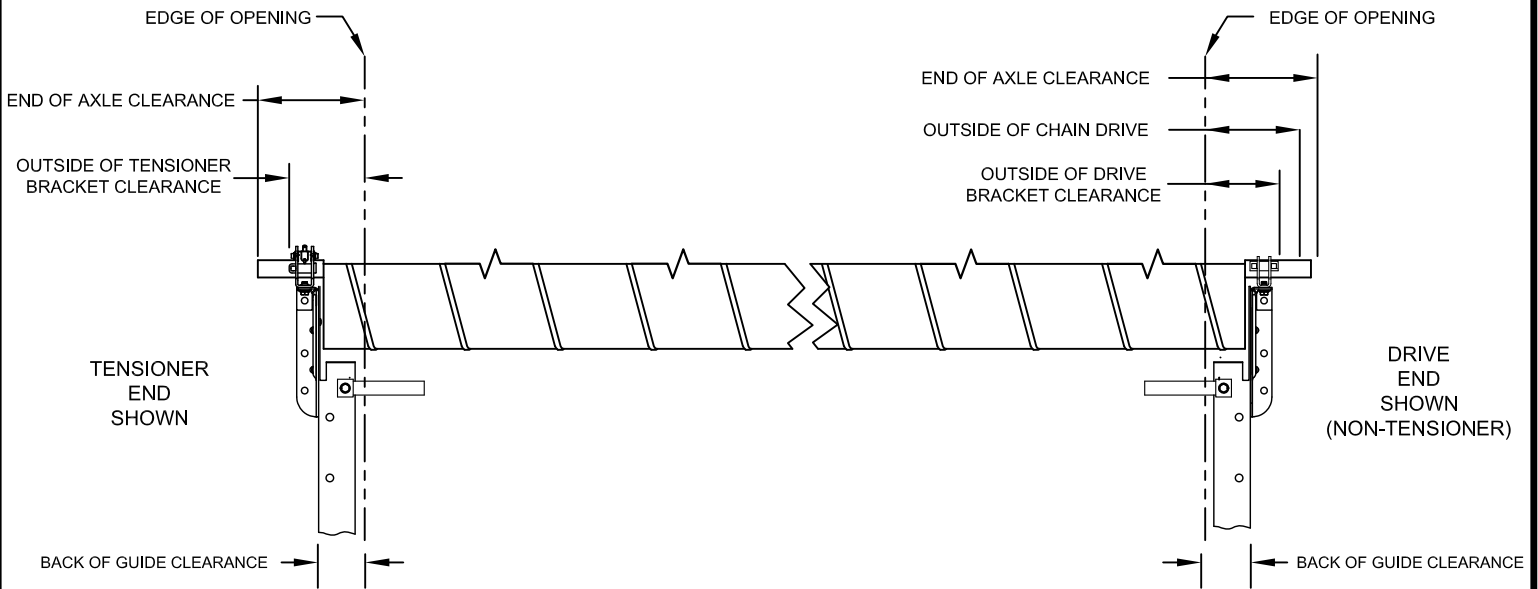
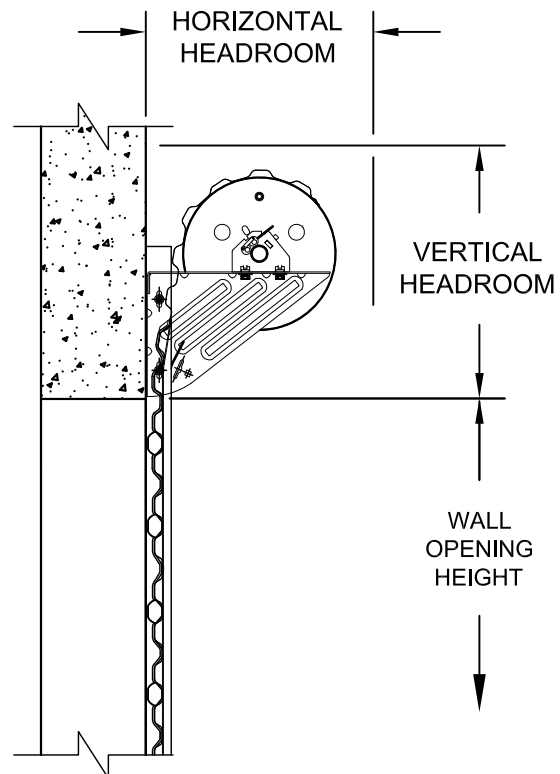
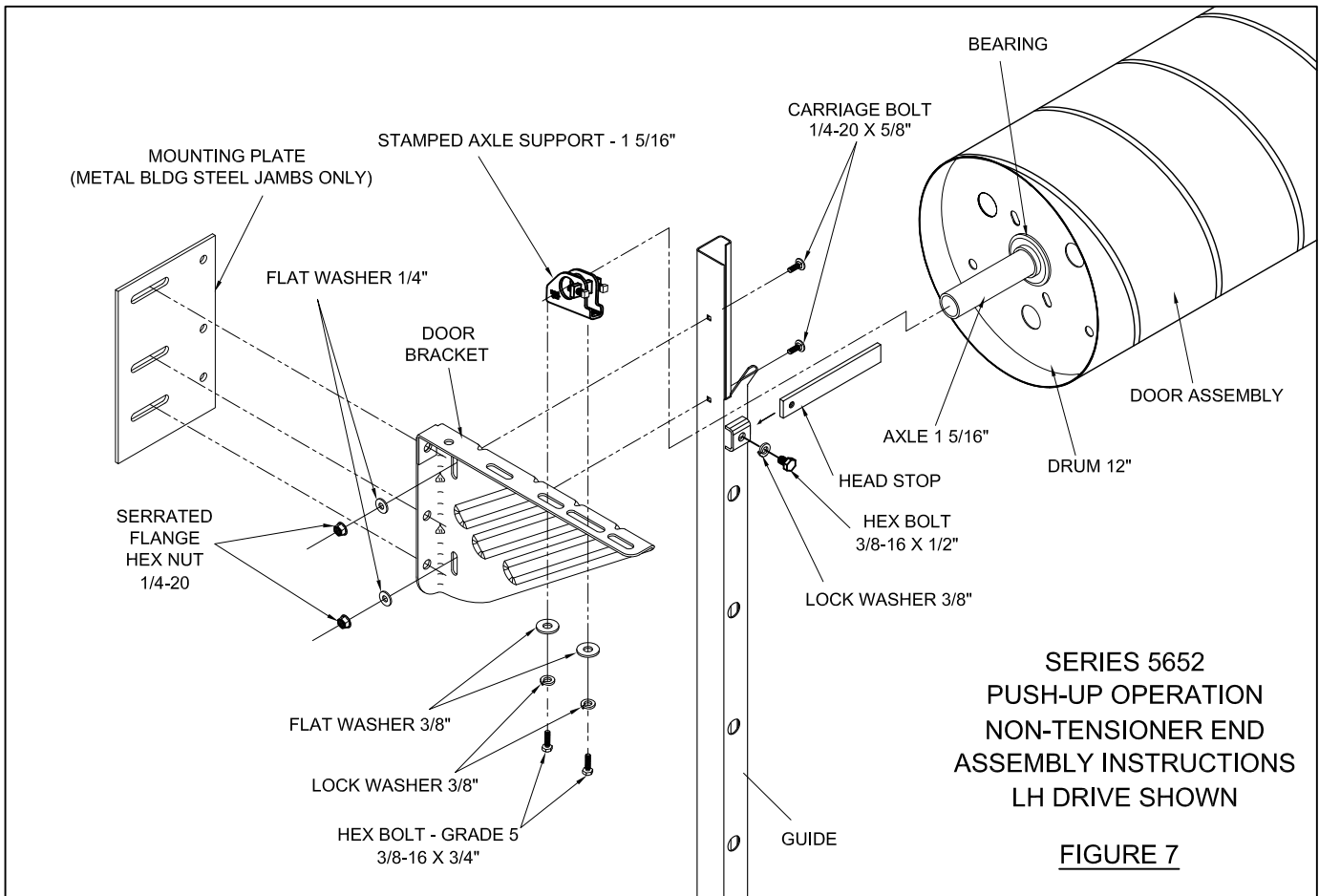
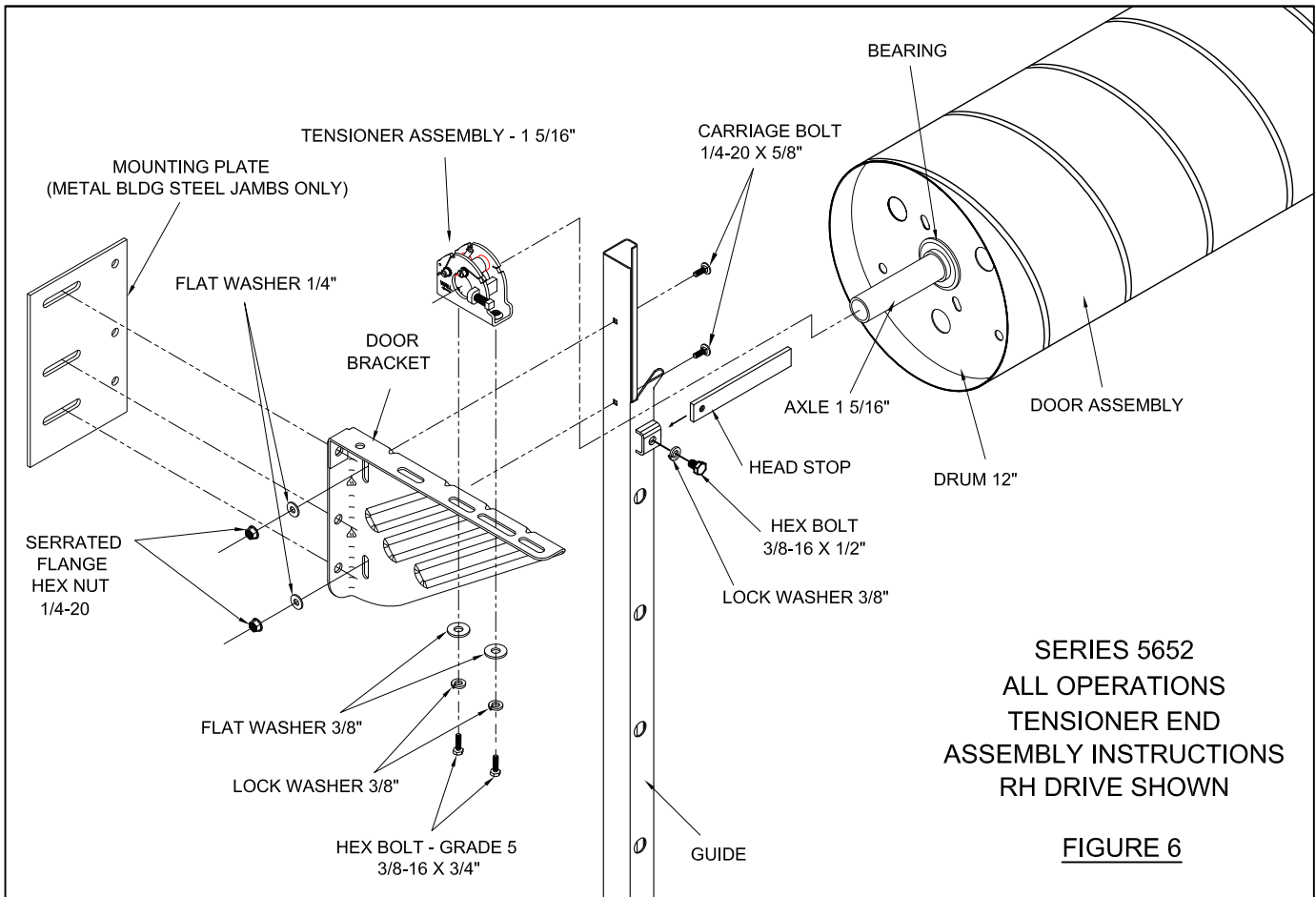
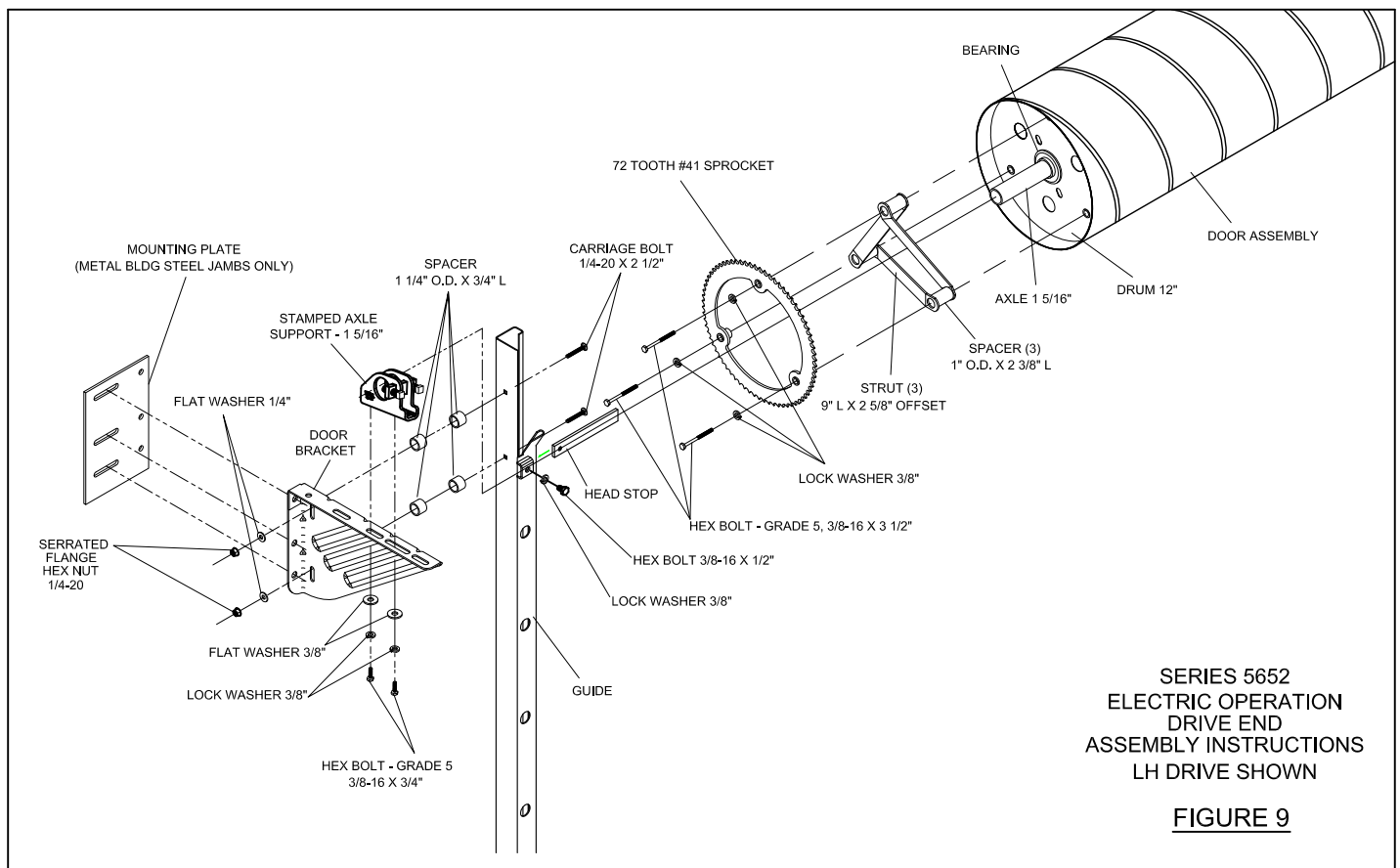
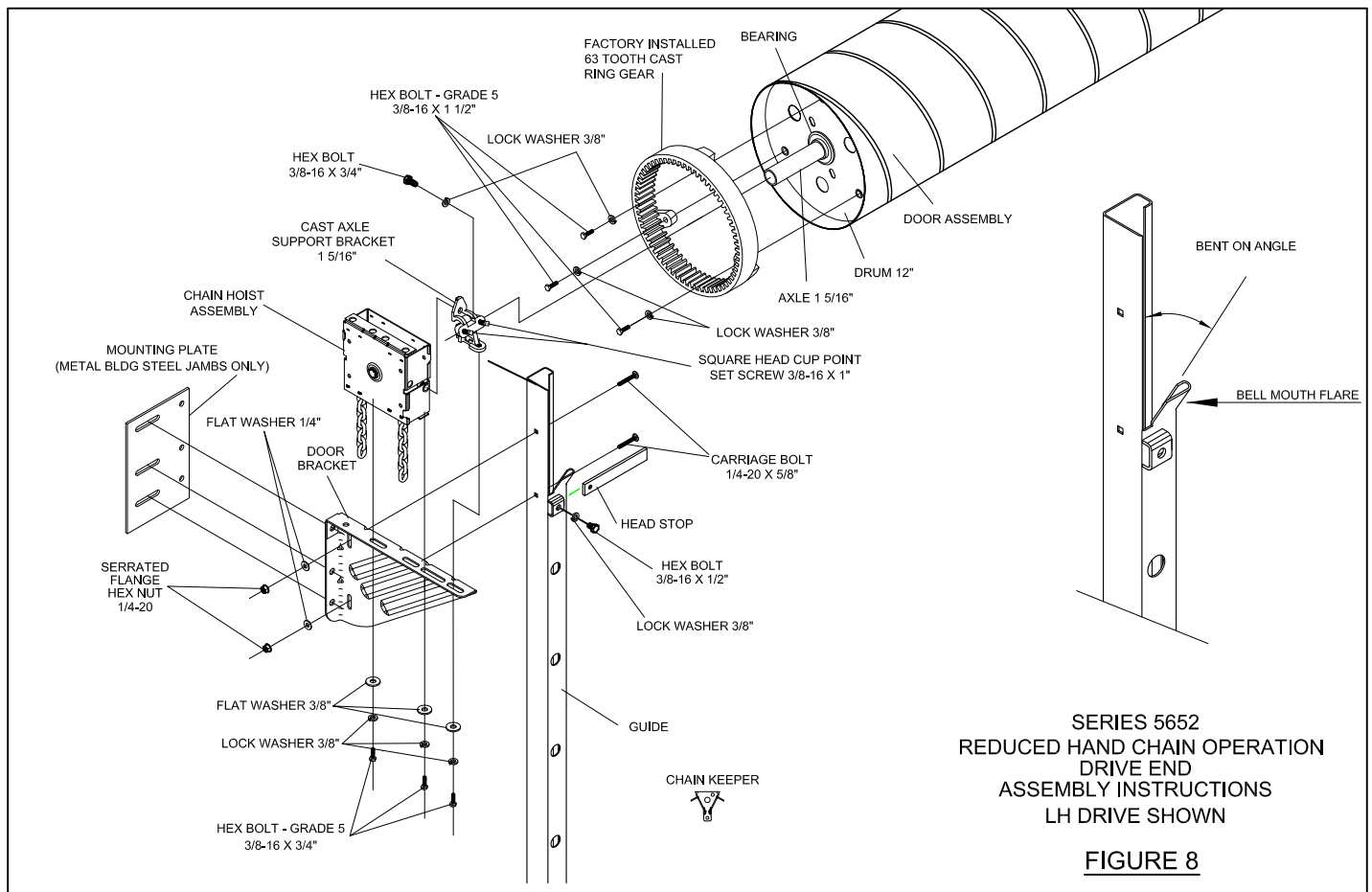


FIGURE 5B: HORIZONTAL / VERTICAL HEADROOM REQUIREMENT CHART

OPENING HEIGHT	VERTICAL HEADROOM	HORIZONTAL HEADROOM
THRU 8'-0"	20"	20"
OVER 8'-0" THRU 10'-0"	21"	21"
OVER 10'-0" THRU 14'-0"	21-1/2"	21"
OVER 14'-0" THRU 16'-0"	22"	21"
OVER 16'-0" THRU 18'-0"	22"	22"
OVER 18'-0" THRU 20'-0"	22"	22"







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STEP 1: WALL OPENING

- A. Check wall opening width and height and verify these measurements against size of door to be installed.
- B. Verify that jambs are plumb.
- C. Check floor and header for level.
- D. Check for adequate side clearance at jambs and clearance above and at sides of header. See Clearance charts figure 5 for minimum requirements.
- E. Verify that the guide mounting surface on the jamb is flush.
- F. Make sure all parts required for installation are with the door.

STEP 2: MOUNTING PLATES

- A. If door will install to metal building steel jambs, mounting plates for the door brackets are required and may be welded or bolted to the jambs.
- B. Top of mounting plates should be located 10" above top of opening and be level with each other. Side of mounting plates should be even with edge of opening. If opening width is off, adjust locations accordingly. See figure 3.
- C. If mounting plates are bolted to jambs, do not use a flat washer between bolt and mounting plate. See figure 3.

NOTE: Door drive operation may be installed on either end of door assembly.

STEP 3: BRACKETS TO GUIDES

- A. Attach door brackets to guides, locating top surface of bracket 2" below top of guide. Use 2 each 1/4-20 x 5/8" carriage bolts, 1/4-20 serrated flange hex nuts and 1/4" flat washers per bracket for tensioner end and the non-tensioner (drive) end for push-up operation. See figures 6 and 7.
- B. Reduced hand chain drive end: Install drive bracket with 2 each 1/4-20 x 5/8" carriage bolts, and 1/4-20 serrated flange hex nuts. See figure 8.
- C. Jack Shaft Motor drive end: Install drive bracket with 2 each 1/4-20 x 2 1/2" carriage bolts, 1/4-20 serrated flange hex nuts and 1/4" flat washers. Insert 2 each 1 1/4" O.D. x 3/4" long spacer tubes between guide and bracket at each bolt location. See figure 9.
- D. Pantheon Motor drive end: Mount drive end bracket to wall with 2 1/2" spacing between guide and inside of bracket or 6 3/8" from edge of opening to outside of bracket (See figure 5A). Please note: Drive end bracket is mounted independent of guides-No Spacers Supplied.

STEP 4: GUIDES AND BRACKETS TO JAMB

- A. Brackets and guides must be attached to jambs using fasteners shown in table 1.
- B. The guides should be mounted centered about the opening. Space guides according to figure 4. This spacing is measured from back of guide to back of guide. See figure 4. Both guides must be plumb.
- C. Once both guides have been correctly positioned, attach them to the jambs using the appropriate fastener at each hole location. See table 1.
- D. Check top surface of brackets to verify they are level with each other. If they are not, loosen the bracket-to-guide attachment fasteners and slide bracket(s) vertically until level. Tighten bracket-to-guide fasteners.
- E. Install 3 bracket-to-jamb attachment fasteners for each bracket. See table 1.

WARNING

DOOR CAN FALL IF BOTH BRACKETS ARE NOT SECURELY FASTENED TO THE JAMBS. ALL FASTENERS ATTACHING BRACKETS TO JAMBS MUST FIT SECURELY INTO A STRUCTURAL MEMBER OR SURFACE. IF DOOR FALLS, SERIOUS INJURY OR DEATH AND/OR DAMAGE TO DOOR CAN RESULT.

STEP 5: TENSIONER END

- A. Using tensioner assembly's spring roll pin located in knurled wheel, rotate upward in the direction that clears the axle.
- B. Slide tensioner assembly over axle, with arrow pointing toward wall. Release pin. See figures 2 and 6.

WARNING

TENSIONER ASSEMBLY MUST BE ORIENTED ON AXLE WITH THE ARROW POINTING TOWARD THE WALL. IF THIS IS NOT DONE, IT WILL NOT OPERATE AS DESIGNED, WHICH MAY CAUSE SERIOUS INJURY OR DEATH DUE TO THE DOOR SUDDENLY LOSING SPRING TENSION AND RAPIDLY MOVING DOWNWARD.

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STEP 6: PUSH-UP NON-TENSIONER END

- A. Slide stamped axle support over axle, with arrow pointing toward wall. See figures 2 and 7.

STEP 7: REDUCED CHAIN DRIVE END

- A. 63 tooth cast ring gear is factory installed to drum using 3 each 3/8-16 x 1 1/2" grade 5 hex bolts and 3/8" lock washers. Right Hand Operation is standard hand of drive unless otherwise noted.
- B. Install 2 each 3/8-16 x 1" square head setscrews in the threaded holes in the cast axle support bracket. These will be tightened against the axle later.
- C. Slide cast axle support bracket over axle. See figures 2 and 8.

STEP 8A: ELECTRIC OPERATOR KIT - JACK SHAFT MOTOR

- A. Locate 3 each 1" O.D. x 2 3/8" long spacer tubes and 9" long x 2 5/8" offset struts between 72 tooth #41 sprocket and drum. Attach sprocket with 3 each 3/8-16 x 3 1/2" grade 5 hex bolts and 3/8" lock washers.
- B. Slide stamped axle support over axle, with arrow pointing toward wall. See figures 2 and 9.

STEP 8B: PANTHEON MOTOR OPERATION:

- A. For Pantheon Motor Installation Procedure, refer to Pantheon specific installation instructions included.

WARNING

BEFORE MOVING TO STEP 9, CHECK BELL MOUTH FLARES TO ASSURE ADEQUATE ANGLE IS PROVIDED TO ALLOW FOR SMOOTH TRANSITION OF CURTAIN INTO GUIDES. SEE FIGURE 8. INADEQUATE OR NO BELL MOUTH FLARE ANGLE WILL RESULT IN CURTAIN DAMAGE.

STEP 9: LIFTING DOOR ASSEMBLY

- A. Orient door with bottom bar located against the floor.
- B. Lift door assembly using a forklift that has padded forks in order to prevent damage to curtain.
- C. Position door on brackets with tensioner and axle support resting safely on top of bracket flange.
- D. Door should be positioned as close as possible to the header and still be able to rotate and clear bottom bar.
- E. Each end of door should be equal distance from the header and the curtain must be centered in the opening.

WARNING

DO NOT ALLOW DOOR ASSEMBLY TO ROLL OFF BRACKETS OR MOVE SIDEWAYS OFF EDGE OF BRACKET. IF DOOR FALLS, SERIOUS INJURY OR DEATH AND/OR DAMAGE TO DOOR CAN RESULT.

STEP 10: TENSIONER END

- A. Attach tensioner assembly to door bracket using 2 each 3/8-16 x 3/4" grade 5 hex bolts, 3/8" lock washers and 3/8" flat washers. See figures 2 and 6.

STEP 11: PUSH-UP NON-TENSIONER END

- A. Attach stamped axle support to door bracket using 2 each 3/8-16 x 3/4" grade 5 hex bolts, 3/8" lock washers and 3/8" flat washers. See figures 2 and 7.

STEP 12: REDUCED HAND CHAIN DRIVE END

- A. Attach cast axle support bracket to door bracket using 3/8-16 x 3/4" grade 5 hex bolt, 3/8" lock washer and 3/8" flat washer.
- B. Position chain hoist assembly on door bracket next to cast axle support and attach to door bracket using 2 each 3/8-16 x 3/4" grade 5 hex bolts, 3/8" lock washers and 3/8" flat washers. The spur gear on the hoist will engage with the internal teeth of the cast ring gear on the end of the drum. See figure 8.
- C. Connect cast axle support bracket to side of chain hoist using 3/8-16 x 3/4" hex bolt and 3/8" lock washer. See figures 2 and 8.
- D. Feed hand chain over chain pocket wheel and through hoist. Connect ends of hand chain, being careful not to twist chain. Hand chain may be lengthened or shortened as necessary.
- E. Install hand chain keeper on wall or jamb.

STEP 13: JACK SHAFT MOTOR DRIVE END

- A. Attach stamped axle support to door bracket using 2 each 3/8-16 x 3/4" grade 5 hex bolts, 3/8" lock washers and 3/8" flat washers. See figures 2 and 9.

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STEP 14: SETTING SPRING INITIAL TENSION

WARNING

EXTREME SPRING TENSION CAN CAUSE SERIOUS INJURY OR DEATH. INSTALLATION, REPAIRS AND ADJUSTMENTS MUST BE MADE BY A TRAINED ROLLING SERVICE DOOR SYSTEMS TECHNICIAN USING PROPER TOOLS AND INSTRUCTIONS.

DOOR MUST BE FULLY OPEN WHEN MAKING ADJUSTMENTS.

- A. Rotate door 1 1/2 - 1 3/4 revolutions in the direction that would send the bottom bar through the guides.
- B. While firmly holding the door at the bottom bar, cut the tape and plastic wrap that holds the door in a coil. Direct the bottom bar down into the guides, stopping just past the head stop area.

WARNING

INITIAL SPRING TENSION MUST BE APPLIED TO ALL DOORS OF ALL OPERATION TYPES (MANUAL, CHAIN HOIST, MOTOR). FAILURE TO APPLY INITIAL TENSION WILL RESULT IN DAMAGE TO DRUM, CHAIN HOIST ASSEMBLY, OR MOTOR RESULTING IN SEVERE INJURY OR DEATH

STEP 15: HEAD STOPS

- A. Slide head stop from inside of each guide. See figures 6 through 9.
- B. Secure each head stop to holder with 3/8-16 x 1/2" hex bolt and 3/8" lock washer.

STEP 16: SLIDE LOCK, STEP PLATE, PULL ROPE

- A. Lower bottom bar and install slide lock and step plate using 2 each 1/4-20 x 1" hex bolts, 5/16-18 hex nuts, 1/4" flat washers, and 1/4-20 nylon insert hex nuts. Do this at both ends of bottom bar. See figure 1.
- B. Transfer the 1/4-20 x 1/2" carriage bolts and 1/4-20 serrated flange hex nuts that were removed from both ends of the bottom bar to the 2 holes at the center of the bottom bar and angle.
- C. For push-up operation only, install rope in one of the holes at the center of the horizontal leg of the bottom bar angle.

STEP 17: POSITION DOOR

- A. Fully open door.
- B. At both ends of the door, slightly loosen all 3/8-16 x 3/4" hex bolts that go through the door bracket and connect to the tensioner, axle support and chain hoist.
- C. Push door assembly as close as possible toward header and still be able to rotate freely. Each end of door should be equal distance from the header and the curtain must be centered in the opening.
- D. Tighten securely all 3/8-16 x 3/4" hex bolts that were loosened in step 17B.
- E. Tighten all 3/8-16 square head setscrews in tensioner and axle support at both ends of door.

STEP 18: CHECK DOOR OPERATION

- A. Lower and raise the door to test door operation and balance.
- B. If door is easy to close, but hard to open, increase spring initial tension.
- C. If door is hard to close, but easy to open, decrease spring initial tension.

STEP 19: ADJUST SPRING INITIAL TENSION

WARNING

DOOR MUST BE FULLY OPENED WHEN MAKING ADJUSTMENTS.

- A. Loosen all 3/8-16 square head setscrews in tensioner and axle support at both ends of door.
- B. At tensioner end, place pipe wrench around end of axle or 1/2" square drive wrench in end of axle square hole so that pulling down on the handle will rotate the axle to increase spring tension.
- C. To increase spring tension, pull down on wrench. The tensioner will automatically grip the axle and hold the new tension setting.
- D. To decrease spring tension, momentarily pull down on wrench and then lift the spring roll pin on the tensioner's knurled wheel. Gently let up on wrench, allowing the axle to rotate to reduce the tension. While holding the new tension, release the tensioner's spring roll pin. The tensioner will now grip the axle and hold the new tension setting.
- E. Tighten all 3/8-16 square head setscrews in tensioner and axle support at both ends of door.
- F. Remove wrench and operate door.
- G. Repeat steps 19A through 19F as necessary.

STEP 20: WARNING LABEL

- A. Install warning label at a readable height on the drive side door guide or jamb.

COMMERCIAL PANTHEON INSTRUCTION INSERT

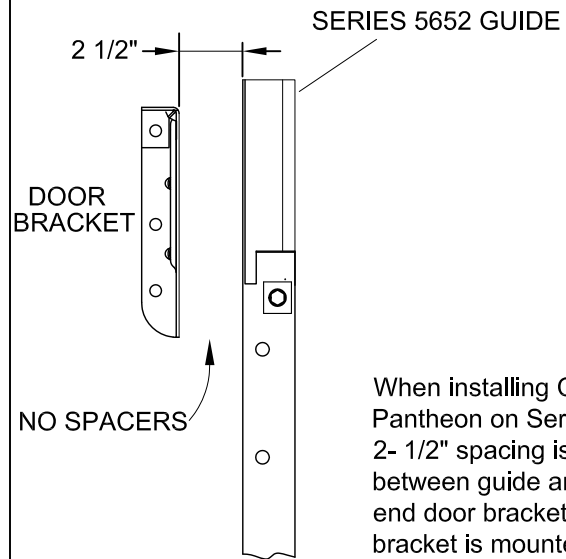
DRIVE END BRACKET SPACING

Amarr

GARAGE DOORS

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COMMERCIAL PANTHEON BRACKET SPACING SERIES 5652



When installing Commercial Pantheon on Series 5652 doors, 2- 1/2" spacing is required between guide and inside of drive end door bracket. Drive end door bracket is mounted independent of guide. NO SPACERS PROVIDED.

COMMERCIAL PANTHEON MOTOR INSTALLATION

