BEST
ROLL-UP DOOR, INC

SERVICE DOOR
ALUMINUM DOOR
ALUMINUM GRILLE

INSTALLATION INSTRUCTIONS

Rev/1/12

BEST ROLL-UP DOOR, INC.

Installation Instructions
SERVICE DOOR, ALUMINUM, GRILLE

ALL BEST ROLL-UP DOOR PRODUCTS MUST BE INSTALLED BY A LICENCED QUALIFIED PROFESSIONAL DOOR COMPANY TO QUALIFY FOR OUR WARRANTY. INSTALLATION WITHOUT PROPER TOOLS AND KNOWLEDGE CAN RESULT IN PERSONAL INJURY. THIS INSTRUCTION IS DESIGNED TO ASSIST A PROFESSIONAL IN THE INSTALLATION OF BRDI SERVICE DOORS, ALUMINUM DOOR AND GRILLE DOORS. SAFETY IS FOREMOST. INSTALLATION SHOULD BE EXECUTED BY LICENSED QUALIFIED DOOR PROFESSIONALS. INSPECT ALL OF THE SHIPPED PARTS AND ACCOUNT FOR EVERYTHING BEFORE COMMENCING ANY WORK. FOR QUESTIONS AND TECHNICAL ASSISTANCE, CONTACT BEST ROLL-UP DOOR, INC. CUSTOMER SUPPORT.

REVIEW ALL INSTRUCTIONS COMPLETELY BEFORE ATTEMPTING INSTALLATION

GENERAL NOTES:

- Instructions are intended for qualified door mechanics using proper tools and equipment.

WARNING! – *Components under extreme spring tension can cause SERIOUS INJURY or DEATH.*

- The terms “door” and “doors” applies generally to Service Doors, Aluminum Doors and Grilles. If an instruction refers to a specific type, it will be noted as such.
- Instructions refer to doors operated from the left side (tension adjusting wheel on the right side).
- Wall bolts are not provided. Refer to “WALL BOLT SCHEDULE” for suggested wall bolts. Wall construction and wall bolts must be adequate for the size and weight of door and its intended use.

PRE-INSTALLATION:

- Before installing the door see that all major parts and components are received.
- Before attempting installation of the door make certain you have read the Installation Manual at least once through.
- Check the width and height of the door opening with the shop drawing.
- Check if the door jambs are plumb.
- Check if the floor and header are level.
- Check Dimensions for appropriate side room and headroom requirements.

INSTALLATION:

1) Measure the door opening and verify that the door size is correct for the opening. If it is not correct, contact the factory for further instruction.

NOTE: If a fascia is provided, evaluate field conditions and decide when the best time would be to install it. The fascia may attach to separate fascia mounting angles installed on each jamb or directly to filler tubes or formed shapes. If intermediate support(s) are included, space support(s) equally between the jambs. Drill holes as indicated on the "WALL BOLT SCHEDULE" for the wall bolt type used and attach support(s) to the header. Attach the fascia with the sheet metal screws provided.

NOTE: If the door is to be mounted between the jambs, it is provided with extra "filler angle(s), tube(s), or formed shape(s). Install the filler(s) as shown in the installation drawing, following the same procedure as for the installation of wall angles as noted below.

NOTE: If a Service Door is tube mounted, no wall angles are provided – guides and brackets attach directly to the tube supports. Install the tubes following a similar procedure as for the installation of wall angles. Tube support mounting clips/plates must be adequately attached to the tubes, the slab and the supporting structure. Tube supports may also require additional bracing.

2) Unbolt and remove guide channels/angles from the wall angles. Level across the opening and mark the "heels" dimension on the jambs as shown on the "DOOR SCHEDULE". (For a door installed with a "Z" guide configuration, "heels" is the same as the door width plus the width of both guides. For a door installed with an "E" guide configuration, "heels" is the same as the door width plus the width of both guides and the thickness of both wall angles).

3) Set the wall angles on the floor/sill at the "heels" mark on each jamb. Wall angles must be installed level and plumb. Shim up the lower wall angle, if necessary, to be level.

4) Using the wall angles as templates, mark, or drill through slops, for wall bolts.

   - Drill holes as indicated on the "WALL BOLT SCHEDULE" for the wall bolt type used.
   - Locate all holes at the center of the slots in the wall angles.

5) Secure the wall angels to the jambs. All wall bolts require a washer between the bolt head and the wall angle.

6) Slide the brackets onto the barrel shafts.

   - The tension bracket (plate with tension lock) goes on the end of the barrel with the rotating shaft that is normally notched or drilled to match the type of tension adjusting wheel provided.
   - The operating bracket (with operating mechanism) goes on the opposite end of the barrel with the fixed shaft that is normally keyed.

- The end of the barrel should be tight against the bearing in the operating bracket.
- There should be clearance between the barrel and the tension bracket.

7) It is recommended that operating bracket components be assembled now. Operating bracket components must be set tight against the outside of the bracket bearing. If the door is push-up operated, put the operating bracket on the drive-end side of the barrel. If the door is chain or motor operated, after putting the operating bracket on the barrel, align sprocket (gear) on shaft, insert key and tighten the setscrew. Use washers to shim for alignment if necessary. (As an alternative, this may be done after the barrel and brackets are raised and bolted to the wall angles).

NOTE: Assembly details are included for typical push-up, chain, crank and motor operated doors. *For motor operated doors, refer to supplemental installation instructions provided with the motor operator.*

8) Remove the truss head bolts and washers from across the barrel and set them aside for later use. Raise the barrel and brackets into position between the tops of the wall angles. ***CAUTION: Use a hoisting method adequate to safely lift the size and weight of the barrel.*** Bolt the brackets to the inside of the wall angles with the flat head bolts, washers and hex nuts proved.

9) Raise the curtain, with the lead slats pointing away from the wall, to below the barrel. ***CAUTION: Use a hoisting method adequate to safely lift the size and weight of the curtain.*** Set slings around the barrel and the curtain. ***CAUTION: Use a minimum of 2 slings spaced across the barrel, but as many as required to safely support the size and weight of the curtain.*** Set the curtain into the slings and cut the bands and/or shrink wraps around the curtain. Unroll enough curtains to reach the barrel. Feed the curtain between the back of the barrel and the slings. Turn the barrel to bring the curtain over the top and around to the front. Center the curtain between the brackets. Align the slots in the lead slats with the nuts welded to the barrel. Attach the lead slats to the barrel with the truss head bolts and washers previously removed.

10) Slide the tension adjusting wheel onto the shaft extending through the tension bracket. If the shaft is drilled or keyed to secure the tension adjusting wheel, install the pin or key provided (and tighten any set screws).

CAUTION! – *Adjust spring tension only when the curtain is in the open position.*

11) Insert a winding bar into the top of the tension adjusting wheel and pull down, away from the wall, to wind the spring assembly. Carefully continue adding tension until the curtain coils itself nearly completely around the barrel. When the curtain is hanging balanced in any position, lock the tension wheel with the tension pin through the hole provided on the tension bracket and through the corresponding hole on the tension wheel. Do not drop the curtain down until there

is enough tension in the spring, for this may cause the curtain to free fall down to the ground which can lead to serious injury.

WARNING! – *Components under extreme spring tension can cause SERIOUS INJURY or DEATH.*

12) Attach the guides to the insides of the wall angles as follows:

- U-channels/formed angles attach to the wall angles with special headed bolts and require washers under the flange nuts.
- Angle guides attach to the wall angles with hex head bolts and require washers under the bolt heads and the flange nuts.
- Extruded guides attach to the wall angles with truss head bolts and require washers under the flange nuts.

13) Make sure the curtain stops are in position and secured to the guides. Adjust the spring tension so the bottom bar wants to raise up to the curtain stops. Remove the slings from around the curtain and barrel. Try the operation of the door and adjust spring tension as necessary so the curtain is as balanced as possible. ***CAUTION: Adjust spring tension only when the curtain is in the open position.***

WARNING! – *Components under extreme spring tension can cause SERIOUS INJURY or DEATH.*

14) If intermediate hood support(s) are provided, install now. Space support(s) equally between the brackets. The top of the support(s) must be even with the top of the brackets. Drill holes as indicated on the "WALL BOLT SCHEDULE" for the wall bolt type used and attach supports.

15) Align the brackets so they are square (not "toed in" or "toed out"). If a hood is provided, lift the hood, set in place centered between the brackets, and attach to the band on each bracket (and intermediate supports) with sheet metal screws proved. Set the screws from the top first, and then the lower ones, pulling the hood to keep it straight.

16) Test the door for proper operation. If the door is too hard to open (it closes too fast), put more tension on the door by turning the tension wheel away from the wall while the curtain is in its fully open position. If the door is too hard to close, turn the tension wheel towards the wall to lessen the tension. Again while the curtain is in its fully open position.

17) Make sure WARNING labels are attached to the door (or to the wall if the guides are concealed).

WALL BOLT SCHEDULE

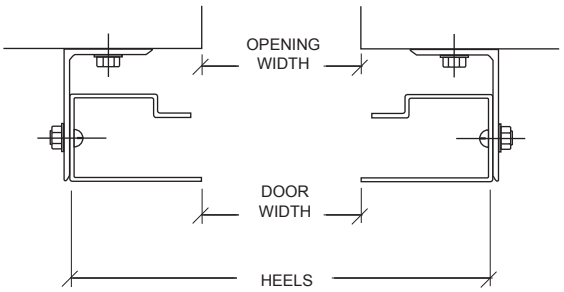
SERVICE DOORS, ALUMINUM & GRILLE DOORS

Wall Construction	Opening Size (W)	Type of Bolt	Drill Size	Minimum Hole Depth
Wood Backing	Up to 14'	5/16" x 2" Lag Screw	3/16"	N/A
	Over 15'	3/8" x 3" Lag Screw	1/4"	N/A
Concrete/ CMU	Up to 14'	3/8" x 2" Wedge Anchor	3/8"	1 ¼"
	Over 15'	1/ 2" x 3" Wedge Anchor	1/2"	2 ¼"
Drywall/Metal stud	Up to 14'	5/16" x 4" Lag screw	3/16"	N/A
	N/A	N/A	N/A	N/A
Steel Angle/ Post	Up to 14'	1/4" x 1 ¼" Self-tapping screw	N/A	N/A
(3/16")	Over 15'	5/16" x 2" Machine Screw	N/A	N/A

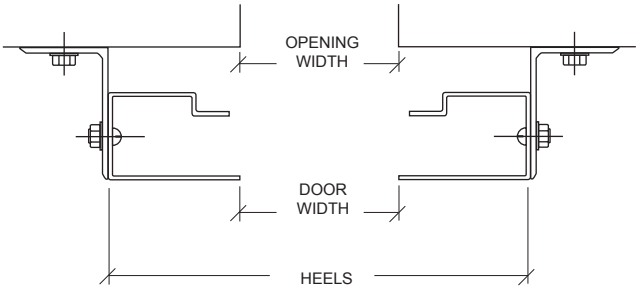
ALUMINUM COUNTER DOORS

Wall Construction	Opening Size (W)	Type of Bolt	Drill Size	Minimum Hole Depth
Wood Backing	To 20'	5/16" x 2" Lag Screw	3/16"	N/A
Concrete/ CMU	To 20'	3/8" x 2" Wedge Anchor	3/8"	1 ¼"
Drywall/Metal stud	To 20'	5/16" x 4" Lag screw	3/16"	N/A
Steel Angle/ Post	To 20'	1/4" x 1 ¼" Self-tapping screw	N/A	N/A
(3/16")				

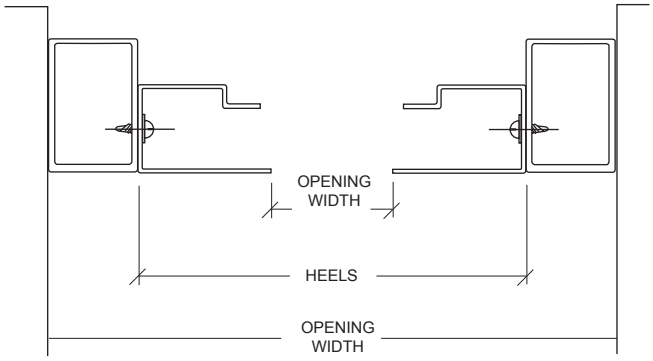
WALL ATTACHMENT TYPE



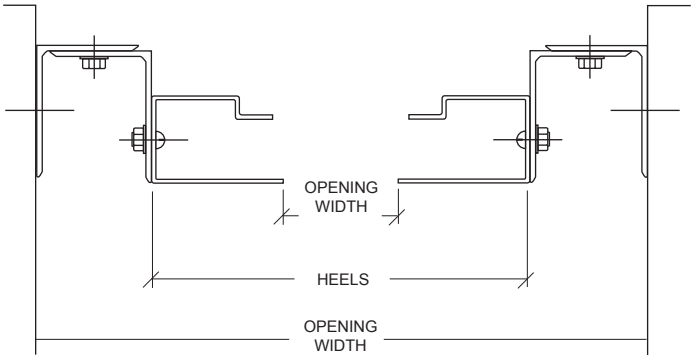
E - GUIDE CONFIGURATION



Z - GUIDE CONFIGURATION

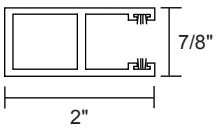


BETWEEN JAMB -TUBE MOUNT

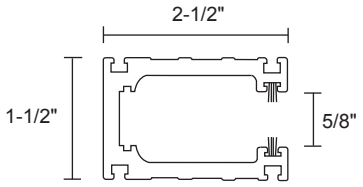


BETWEEN JAMB - ANGLE MOUNT

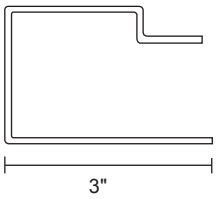
GUIDE TYPE



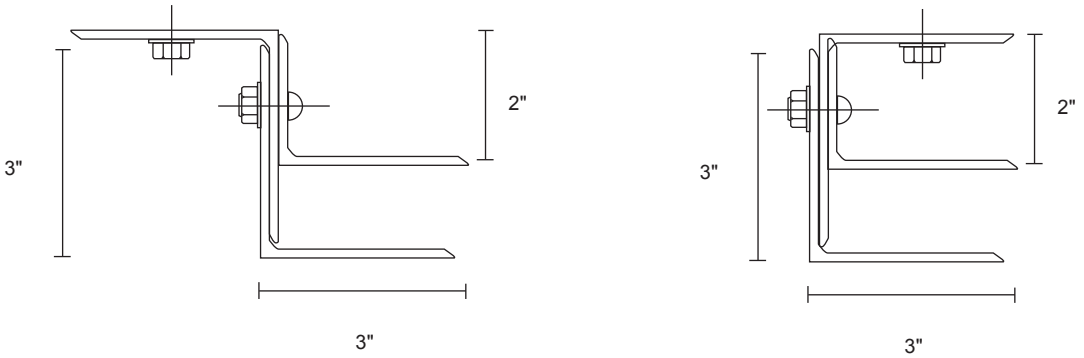
TYPE I - ALUMINUM COUNTER



TYPE II - ALUMINUM DOOR / GRILLE



TYPE III - STEEL SERVICE DOOR

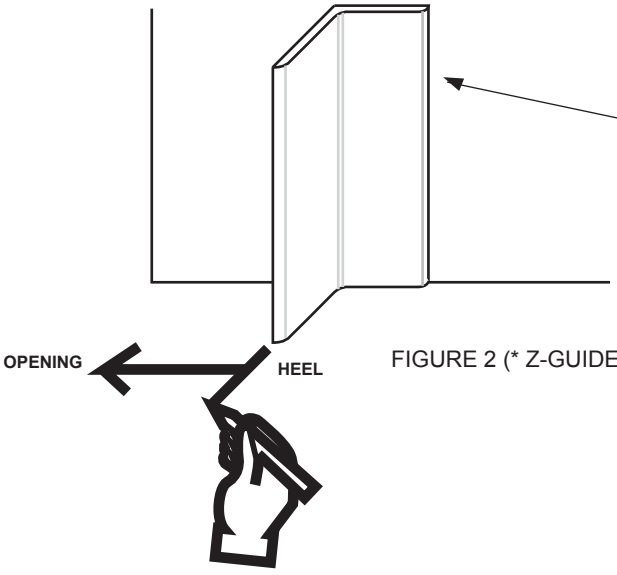


TYPE IV - 3 PIECE STEEL ANGLE

HELPFUL DEPICTIONS

CHECK THE WIDTH AND HEIGHT OF THE DOOR OPENING WITH THE PACKING LIST
CHECK IF THE DOOR JAMBS ARE PLUMB
CHECK IF THE FLOOR AND HEADER ARE LEVEL
CHECK DIMENSIONS FOR APPROPRIATE SIDE ROOM AND HEADROOM REQUIREMENTS
READ THE INSTRUCTION ONCE THROUGH BEFORE COMMENCING INSTALLATION

FIGURE 1



SET THE WALL ANGLES ON THE FLOOR/SILL AT THE "HEELS" MARK ON EACH JAMB.

FIGURE 2 (* Z-GUIDE CONFIGURATION)

MARK THE "HEELS' DIMENSION ON THE JAMBS AS SHOWN ON DOOR SCHEDULE.

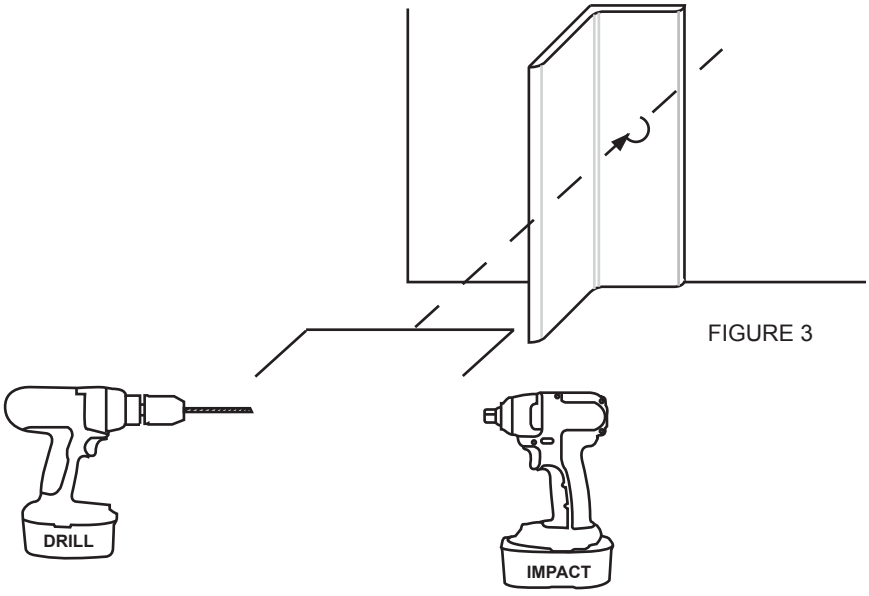


FIGURE 3

USING THE WALL ANGLES AS TEMPLATES, MARK, OR DRILL THROUGH SLOTS, FOR WALL BOLTS. SECURE THE WALL ANGLES TO THE JAMBS. ALL WALL BOLTS REQUIRE A WASHER BETWEEN THE BOLT HEAD AND THE WALL ANGLE.

HELPFUL DEPICTIONS

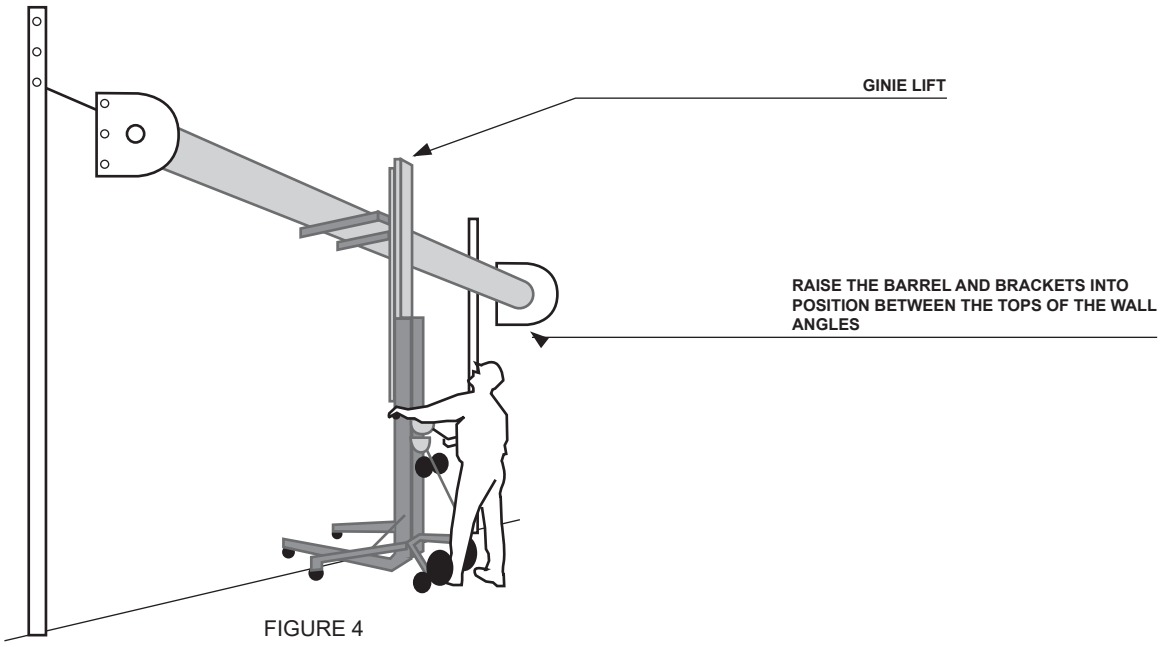


FIGURE 4

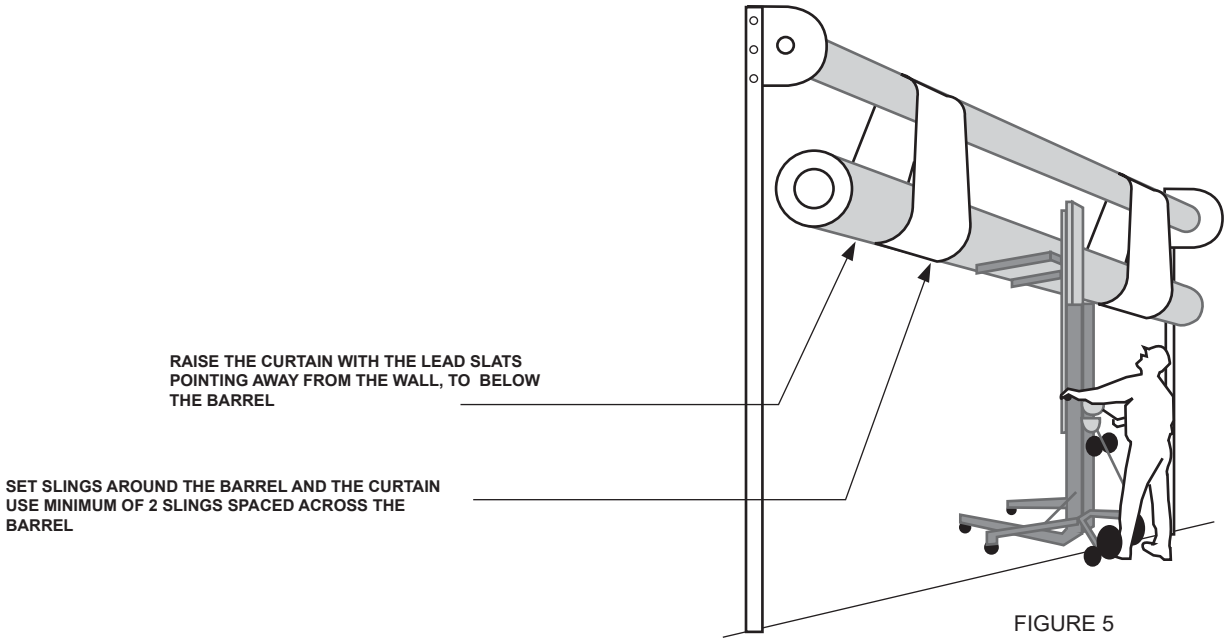


FIGURE 5

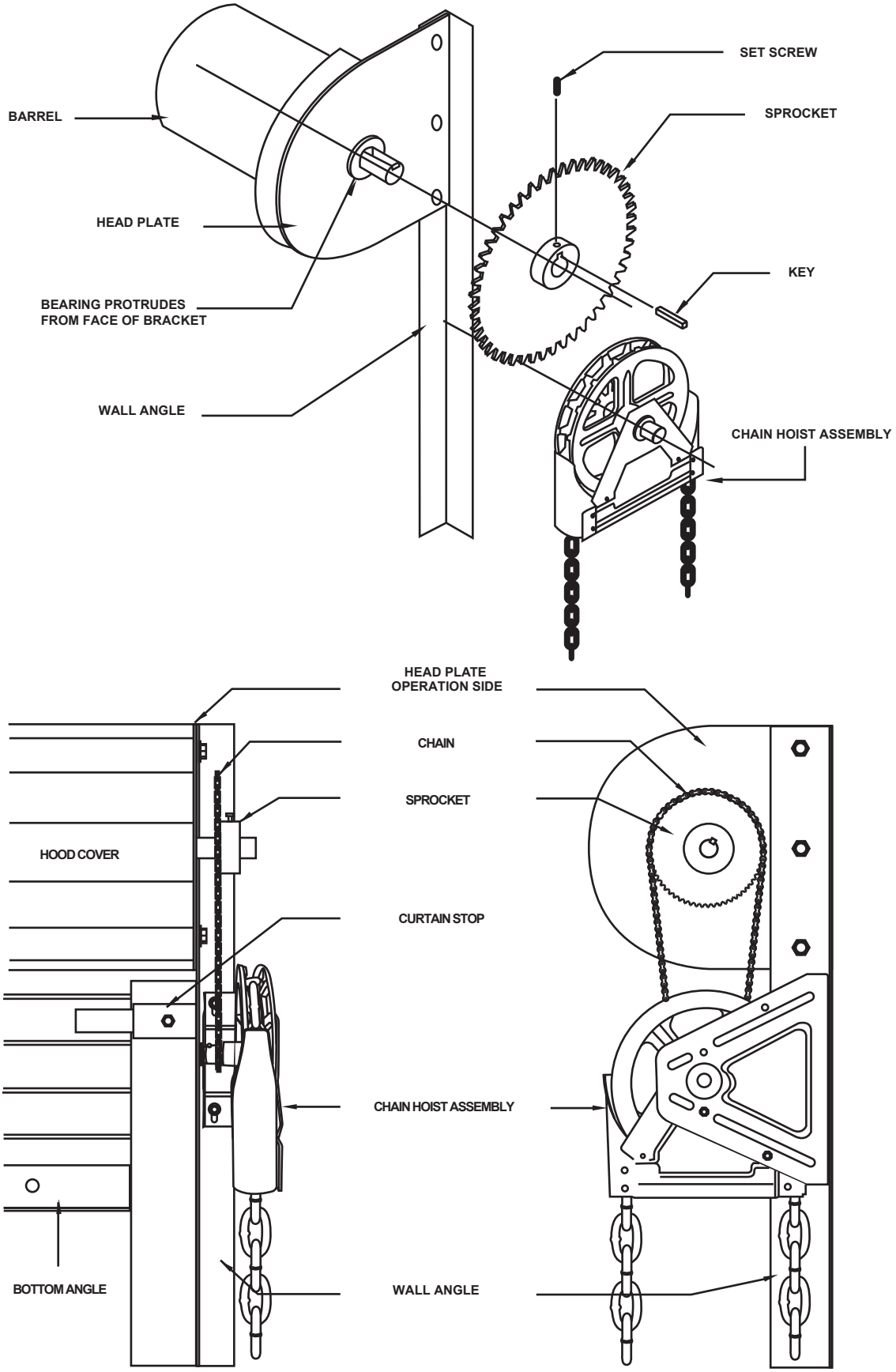


FIGURE 7 CHAIN OPERATOR SIDE

Note: **Right hand operator shown.**
For left hand operation, invert the chain hoist assembly and rotate the base.

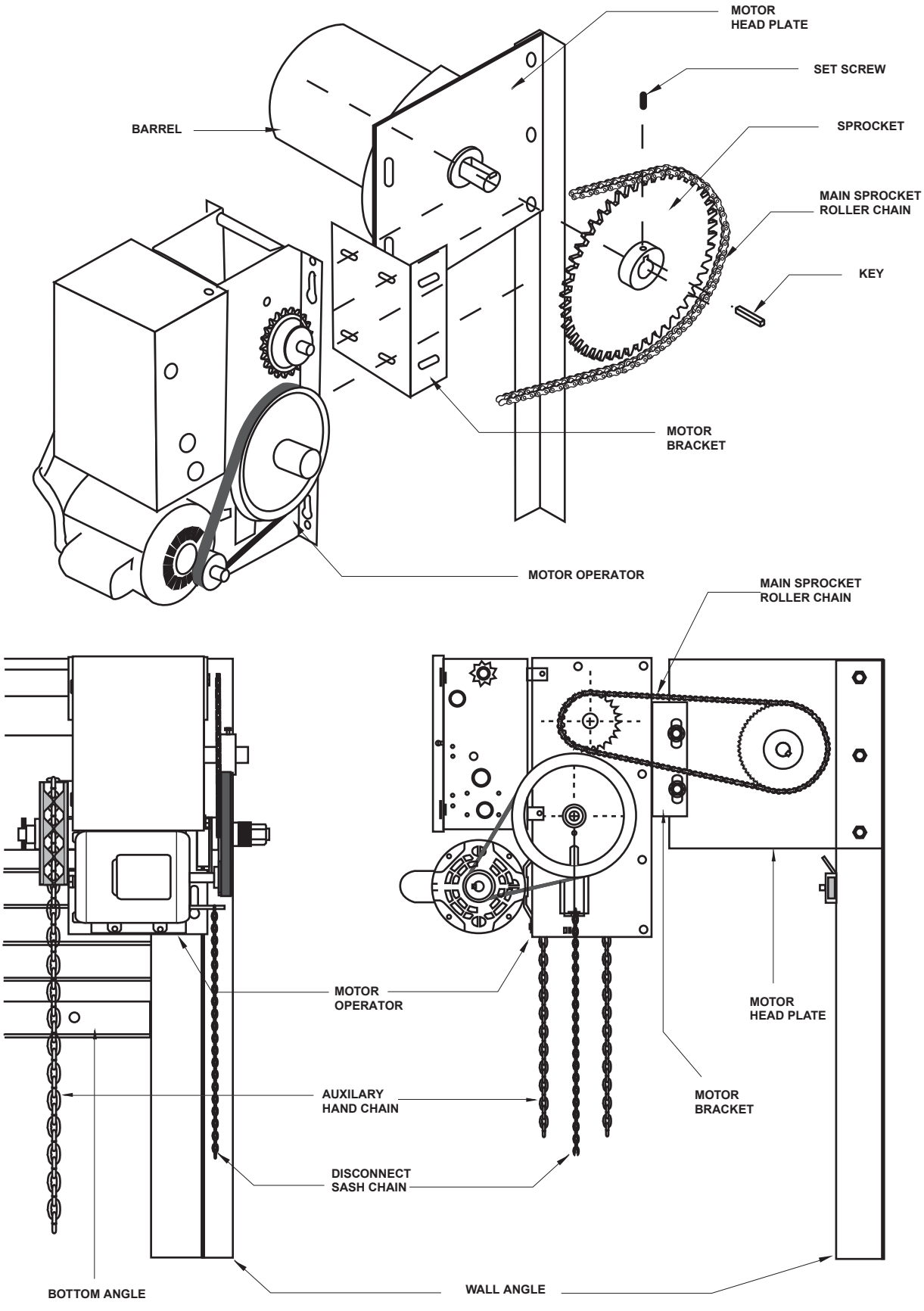


FIGURE 8 MOTOR OPERATOR SIDE

NOTE: Right hand jack shaft operator shown.
There are other ways to install the motor. Consult Best Roll-Up Door for more information

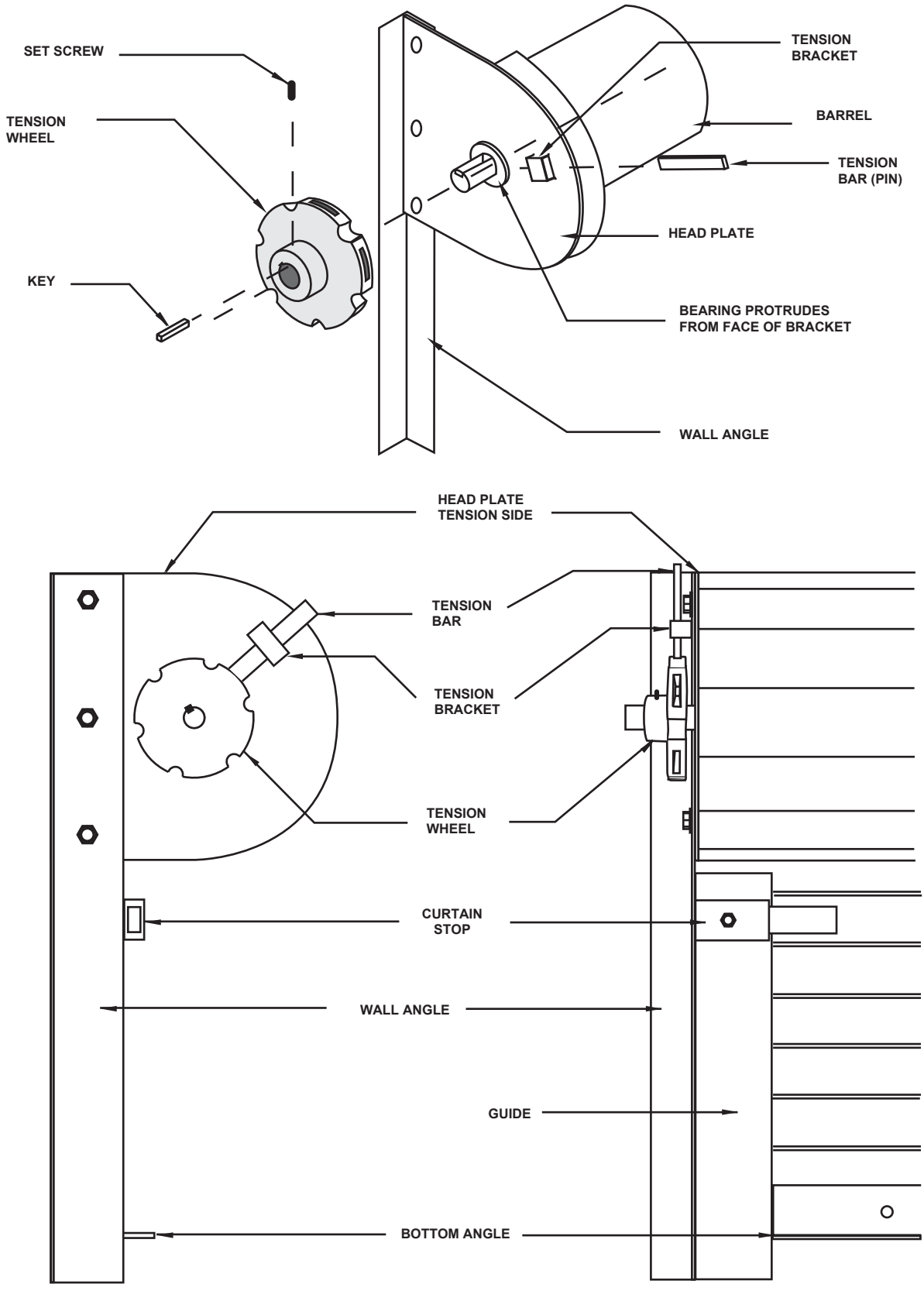


FIGURE 9 TENSION SIDE

WARNING: The counter balance assembly & its related parts are under EXTREME spring tension at all times. Severe personal injury or death may result from improper installation or operation.

WARNING! ▫ ***A moving door can cause SERIOUS INJURY or DEATH. Keep clear of the doorway while the door is moving.***

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.

It is imperative to check the roll-up door on a regular basis. This would greatly reduce potential causes for major problems or safety hazards in the future. It is advisable to set up a maintenance sheet or a check-up list which can be performed on a quarterly basis.

First, check the door for proper operation. If the door is push-up or had chain operated, make certain that the door remains open at the fully open position. If the door rolls down from the stops, this denotes that the counter-balance mechanism of the spring inside the barrel needs more tensioning. Do not attempt to tension the spring without proper tools and experience. Always call the local representative to come out to re-tension the spring. If the door tends to be lifted up from the floor at the fully closed position, this is a normal condition for roll-up doors. If the door closes too fast, this also needs more tension in the spring.

If the door is operated by an electric operator, check the control station (button switch, dey switch, remote transmitter, etc.). Check for excessive noise from the operator. Also make certain that the door stops at the proper locations (at the fully open position and at the fully closed position). If there is a safety devise, make certain it is operational at lease once a month and/or after the door has been serviced or damaged.

Second, check for any loose screws and bolts, especially on the wall angles which supports the door. Next, check for excessive wearing. The wearing of the metal can be minimized by lubricating the guides at least four times a year. Before applying new grease, scrap any old and built-up grease inside the guides. Endlocks should also be checked. Endlocks are located at both ends of the curtain. If there are missing endlocks, call the local representative immediately, for this may cause a larger problem in near future.

Always be sure to unlock any locking mechanism before opening the door. If there is any other problem or potential cause for a problem, do not hesitate to call the local representative.