

R Y T E C

# PredaFlex™

PredaDoorNXT® with optional Flexible edge

---

## Installation Manual



P.O.Box 403, One Cedar Parkway, Jackson, WI 53037  
Phone: 262-677-9046 Fax: 262-677-2058

[Revision: February 19, 2013, 1060441-0, ©Rytec Corporation 2009]



# TABLE OF CONTENTS

	PAGE
<b>INTRODUCTION</b> .....	1
<b>DOOR SERIAL NUMBER(S)</b> .....	1
<b>HOW TO USE MANUAL</b> .....	1
<b>INSTALLATION</b> .....	2
<b>TOOLS AND EQUIPMENT REQUIRED</b> .....	2
<b>FLOOR LOOP EQUIPMENT REQUIREMENTS</b> .....	2
<b>BASIC JOB REQUIREMENTS</b> .....	2
<b>ELECTRICIAN'S RESPONSIBILITIES</b> .....	2
<b>GENERAL ARRANGEMENT OF DOOR PARTS</b> .....	2
<b>ANCHORING METHODS</b> .....	3
<b>Concrete, Block, or Brick Walls</b> .....	3
<b>Wood, Block, Brick, or Insulated Walls</b> .....	3
<b>Insulated Walls</b> .....	3
<b>LOCATING CENTERLINE OF DOOR OPENING</b> .....	3
<b>LOCATING SIDE COLUMNS</b> .....	4
<b>SIDE COLUMNS</b> .....	5
<b>SPREADER ASSEMBLY</b> .....	6
<b>Door without Hood Assembly</b> .....	6
<b>Door with Hood Assembly</b> .....	7
<b>HEAD ASSEMBLY</b> .....	7
<b>FLEXIBLE BOTTOM EDGE</b> .....	10
<b>Encoder</b> .....	10
<b>Anchor Hole Plugs</b> .....	11
<b>Caulking</b> .....	11
<b>PHOTO EYE INSTALLATION</b> .....	12
<b>ELECTRICAL WIRING ROUTING</b> .....	14
<b>CONTROL PANEL AND ELECTRICAL CONNECTIONS</b> .....	14

**DOOR OPEN- AND CLOSE-LIMIT POSITIONS.....15**  
    **Close-Limit Position .....15**  
    **Open-Limit Position .....15**

**RESETTING FLEXIBLE EDGE ASSEMBLY .....16**

**PHOTO EYE ADJUSTMENT. ....16**

**ALUMINUM HOOD (OPTIONAL) .....17**

**ABS HOOD (OPTIONAL) .....18**

**FINAL CHECKS .....19**

## INTRODUCTION

The information contained in this manual will allow you to install your Rytec PredaFlex™ Door in a manner that will ensure maximum life and trouble-free operation.

Any unauthorized changes in procedure, or failure to follow the steps as outlined in this manual, will automatically void the warranty. Any changes to the working parts, assemblies, or specifications as written, that are not authorized by Rytec Corporation, will also cancel the warranty. The responsibility for the successful operation and performance of this door lies with the owner of the door.

**DO NOT OPERATE OR PERFORM MAINTENANCE ON THIS DOOR UNTIL YOU READ AND UNDERSTAND THE INSTRUCTIONS CONTAINED IN THIS MANUAL.**

If you have any questions, contact your Rytec representative or call the Rytec Technical Support Department at 800-628-1909. Always refer to the serial number of the door when calling the representative or Technical Support. The serial number plate is located on the small edge of the left side column. (See Figure 1.)

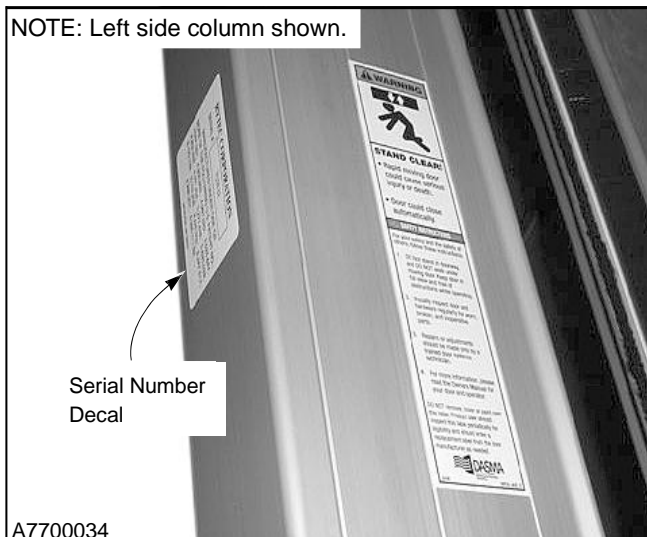


Figure 1

The wiring connections in this manual are for general information purposes only. A wiring schematic is provided with each individual door specifically covering the control panel and electrical components of that door. That schematic was shipped inside the control panel.

## DOOR SERIAL NUMBER(S)

Your **DOOR SERIAL NUMBER** information can be found in three universal locations. These are at the small edge of the left side column (shown in figure 1), on the drive motor, and inside the System 4 control panel. (See Figure 2.)

**IMPORTANT:** When installing multiple doors of the same model but in different sizes, verify the serial number in the control panel with the one in the side column.

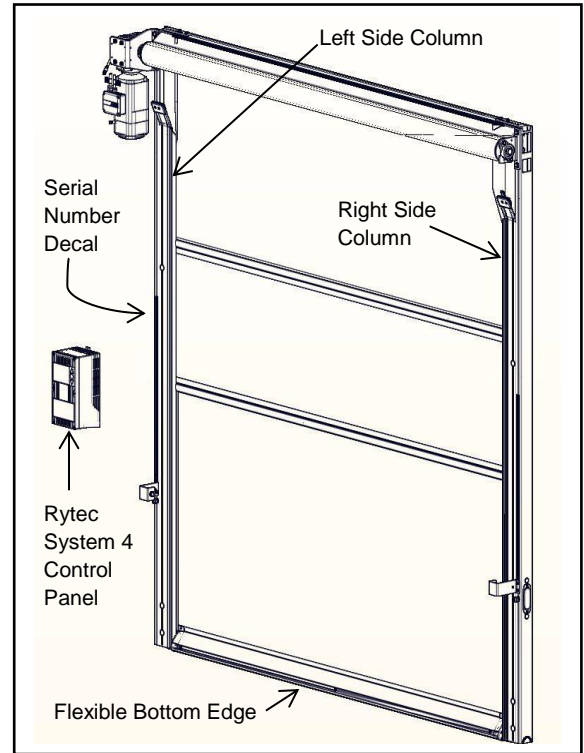


Figure 2

## HOW TO USE MANUAL

Throughout this manual, the following key words are used to alert the reader of potentially hazardous situations, or situations where additional information to successfully perform the procedure is presented:



**WARNING** is used to indicate the potential for personal injury, if the procedure is not performed as described.



**CAUTION** is used to indicate the potential for damage to the product or property damage, if the procedure is not followed as described.

**IMPORTANT:** **IMPORTANT** is used to relay information that is **CRITICAL** to the successful completion of the procedure.

**NOTE:** **NOTE** is used to provide additional information to aid in the performance of the procedure or operation of the door, but not necessarily safety related.

## INSTALLATION—TOOLS AND EQUIPMENT REQUIRED

### INSTALLATION

#### TOOLS AND EQUIPMENT REQUIRED

1. Socket and wrench set.
2. Concrete anchor bolts (½-in. diameter). (See “ANCHORING METHODS” on page 3.)
3. Threaded rod (½-in. diameter). (See “ANCHORING METHODS” on page 3.)
4. Two ladders (taller than the door opening height).
5. Forklift.
6. Carpenter’s level (4-ft. minimum length).
7. Carpenter’s square.
8. Hammer drill.
9. Masonry drill bit (½-in. diameter).
10. Three or four bar clamps (1-ft. length).
11. Hammer and mallets.
12. Crowbar or pry bar.
13. Assorted hand tools (pliers, tape measure, etc.).
14. Assorted shim stock.
15. Water level, line level, or transit.

#### FLOOR LOOP EQUIPMENT REQUIREMENTS

1. Wet-type concrete saw.
2. Wet vac.
3. 200–500 feet of 16-gauge, 19-strand, type XLPE, copper, crosslink polyethylene jacket wire (or equivalent). The length of wire is determined by the size of the loop.
4. Bondo® P606 flexible embedding sealer (or equivalent) — required to fill grooves in floor. For cold temperature sealing applications, Bondo P610 speed set must be added to the P606 to ensure proper curing of the filler.
5. Water supply and garden hose (for concrete saw).

*NOTE: For complete floor loop installation instructions, refer to the installation instructions provided with your floor loop.*

#### BASIC JOB REQUIREMENTS

1. A forklift must be supplied by the customer, dealer, or installer.

2. Two installers are required.

*NOTE: One installer must be a qualified electrical technician, and all electrical work must meet applicable codes. If the installer is not qualified, an electrician must be present during installation.*

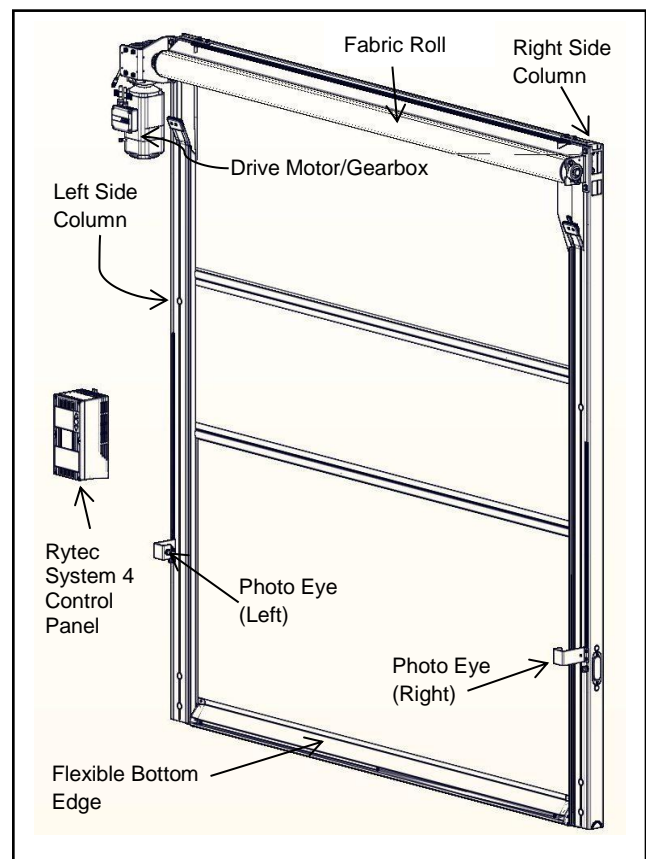
3. The customer must guarantee 100% access to the door opening during the installation. No traffic should be allowed through the door during the installation.
4. If an electrician is used, that person must make all electrical connections. The electrician should be present one hour after installation begins.
5. The Rytec control box and a fusible disconnect should be installed prior to the start of the door installation. (See Figure 1 for layout.)

#### ELECTRICIAN’S RESPONSIBILITIES

For complete details on the responsibilities of the electrician, refer to the Rytec System 4 Drive & Control Installation & Owner’s Manual.

#### GENERAL ARRANGEMENT OF DOOR PARTS

Figure 3 shows the location of the major components of your PredaFlex™. This illustration should be used as reference only and should not be used as part of the installation instructions.



**Figure 3**

*NOTE: The above illustration shows the front side of the door. Left and right are determined when viewing the front side of the door.*

**ANCHORING METHODS**

Correct anchoring of the side columns to the wall and the floor is important for the smooth and safe operation of the door. The wall material should be strong enough to support the weight of the door and all wall anchors.

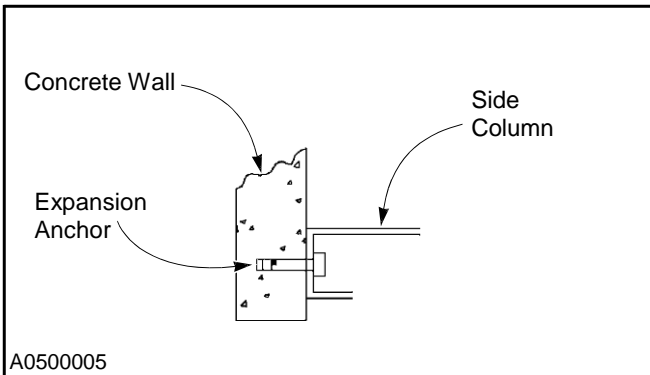
Figure 4 through Figure 7 show anchoring methods for various types of walls. Use the method that is best suited for your particular installation site.

All necessary anchoring hardware and material required for the installation of this door is the responsibility of the door owner. If you have any questions, call your Rytec representative or the Rytec Technical Support Department at 800-628-1909.

*NOTE: Use 1/2-in. diameter threaded through bolts or 1/2-in. diameter threaded rods to anchor the door to all wall applications. Use 1/2-in. diameter concrete anchor bolts to anchor the door to a concrete floor or wall.*

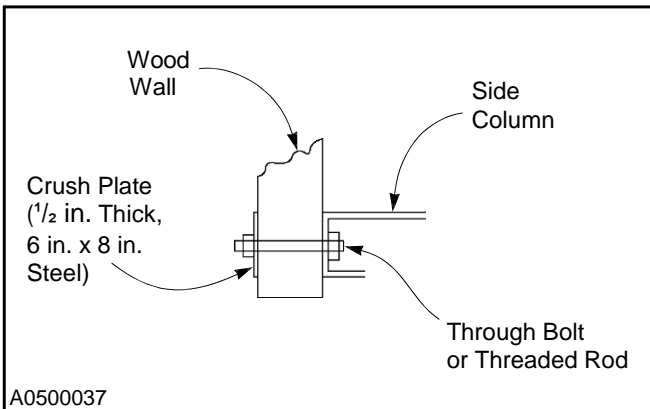
*If expansion anchors are used, a quarterly inspection should be implemented for safe and secure door operation.*

**Concrete, Block, or Brick Walls**



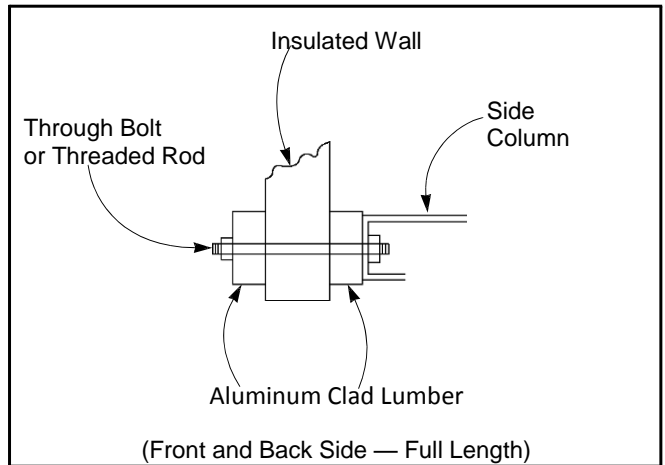
**Figure 4**

**Wood, Block, Brick, or Insulated Walls**

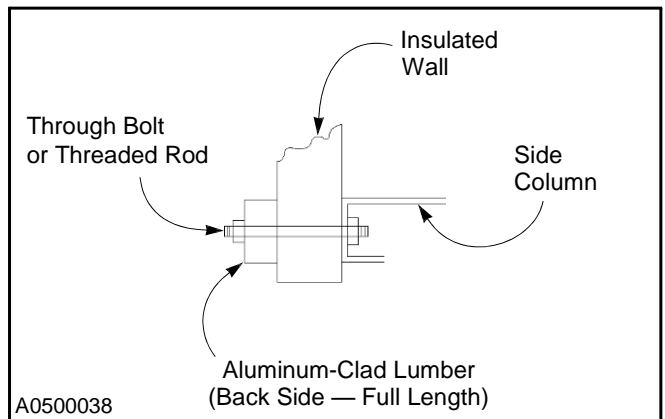


**Figure 5**

**Insulated Walls**



**Figure 6**



**Figure 7**

**LOCATING CENTERLINE OF DOOR OPENING**

*NOTE: Accurate measurements are critical for the proper installation and operation of your Rytec door. Verify all measurements.*

1. Measure the width of the door opening.
2. Divide the measurement in half to locate the centerline. Then mark the centerline along the floor. (See Figure 8.)

# INSTALLATION—LOCATING SIDE COLUMNS

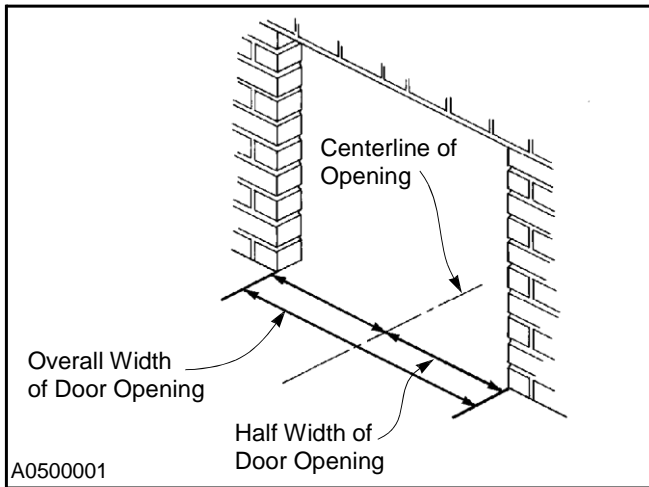


Figure 8

## LOCATING SIDE COLUMNS

1. Locate the layout drawing of the door. It should be attached to the small parts carton packed inside the shipping crate. This drawing identifies the production width of your door.
2. Using the centerline as a reference point, lay out and mark half of the door's production width along the floor. (See Figure 9.)



This door is equipped with a breakaway flexible bottom edge assembly. To ensure that it works properly, the width of the door opening must not be smaller (narrower) than the production width of the door.

If the width of the opening is narrower than the width of the door, do not proceed with the installation. Contact your Rytec representative or Rytec Technical Support Department at 800-628-1909.

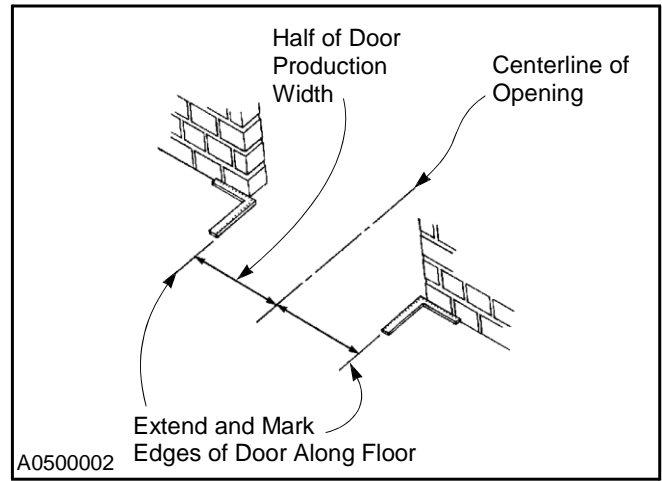


Figure 9

3. With a carpenter's square placed against the wall, mark both sides of the door along the floor. Extend the line along each edge.
4. Check the floor for level across the door opening. The floor must be level within 0.12 in. from side to side. If one side of the opening is higher than the other, a shim under the side panel will be required.

Figure 10 and Figure 11 show two methods that can be used to ensure level side columns.

*NOTE: Contact the Rytec Technical Support Department if the floor is more than 1 in. out of level.*

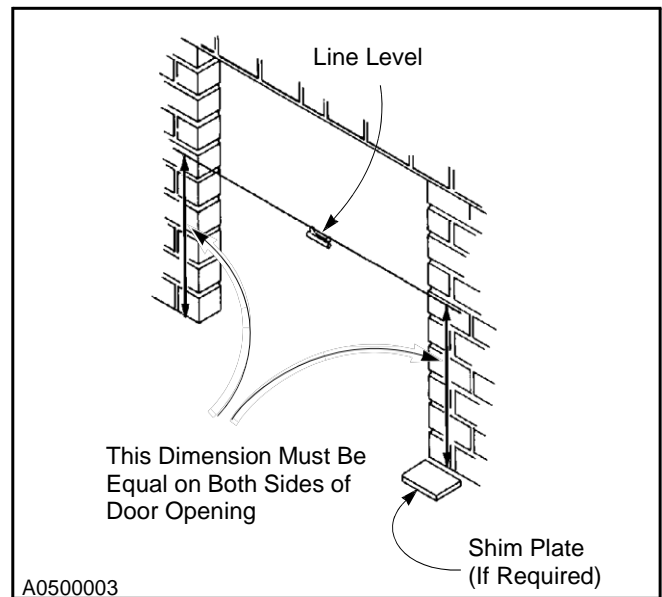


Figure 10



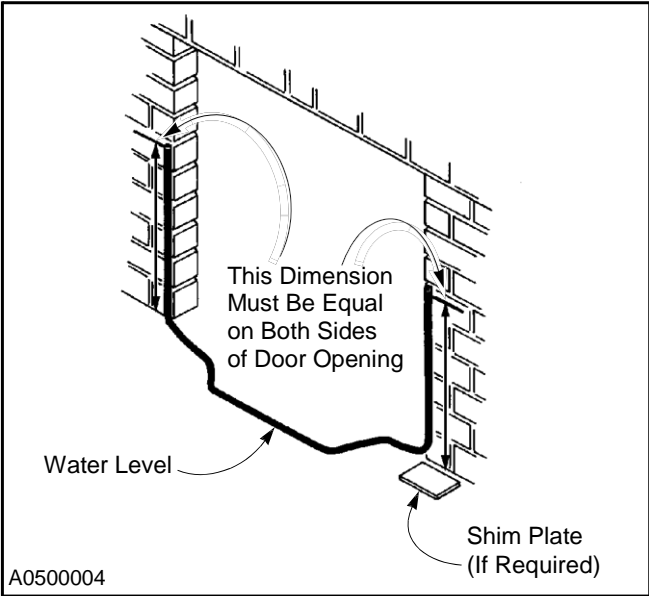


Figure 11

**SIDE COLUMNS**

*NOTE: The standard mounting location for the motor/gearbox assembly on a PredaFlex™ door is on the left but can be ordered to be mounted on the right. DO NOT change the location of the drive motor without first contacting your Rytec representative or the Rytec Technical Support Department at 800-628-1909.*

*The PredaFlex™ has only one access hole in each side column.*

1. Remove the drive motor side column from the shipping crate. The drive motor side column is identified by the wire access hole along its outside edge. (See Figure 12.)

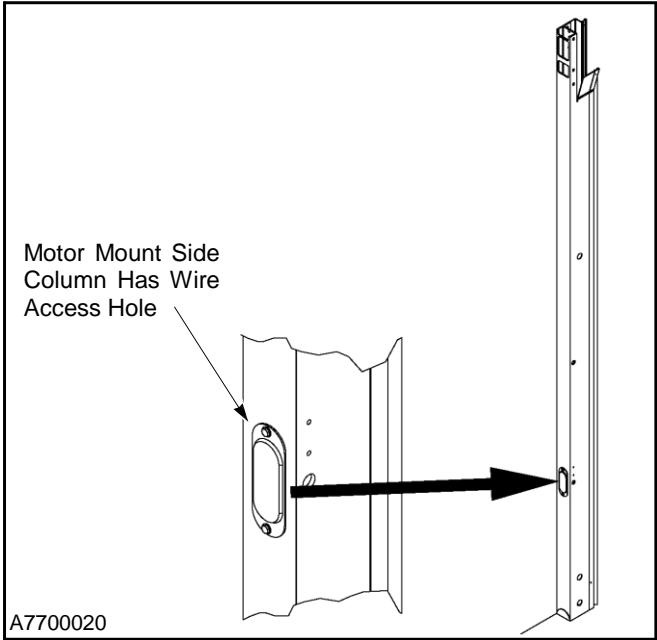


Figure 12

2. Stand the drive motor side column on the floor and tight against the wall. To determine on which side of the door to place the side column, be sure that the access holes are facing away from the door opening.
3. Align the inside edge of the side column with the production width line laid out earlier on the floor. The side column must be located on the outside edge of the layout line. (See Figure 13.)

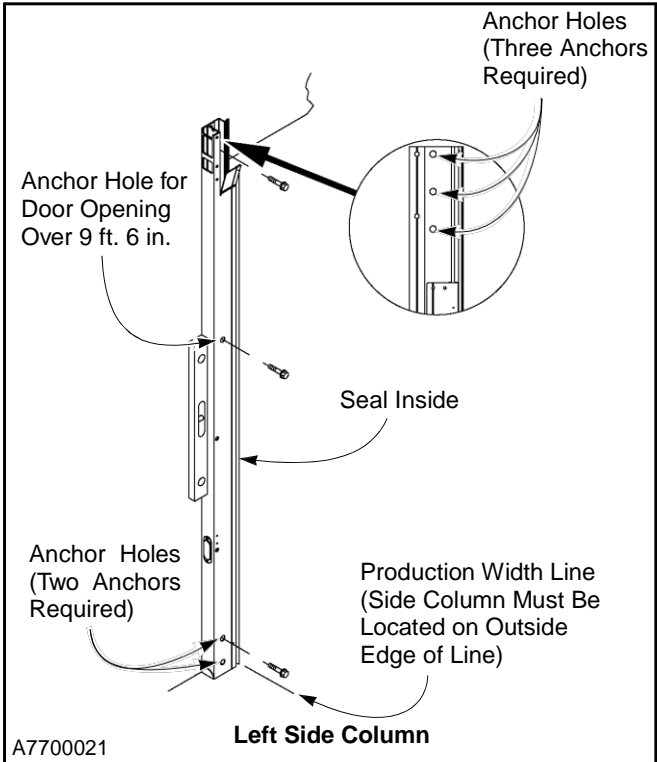


Figure 13

## CAUTION

It is critical that the side columns are mounted level and square to the wall and floor, both vertically and horizontally. A 4-ft. level and carpenter's square are recommended for this procedure.

The use of bar clamps to secure the side columns to the wall during installation is recommended, as these hold the columns securely in place, while allowing for slight adjustments of either side column during the installation of the head assembly.

*NOTE: All necessary anchor hardware and material is the responsibility of the door owner.*

- Once the side column is properly positioned, secure it to the wall using the appropriate anchors. (See "ANCHORING METHODS" on page 3.) Anchor holes have been provided in the side column. (See Figure 13.) DO NOT tighten the anchor hardware at this time.

*NOTE: Use 1/2-in. diameter expansion shell stud-type anchors for concrete walls or 1/2-in. diameter threaded through bolts for brick walls and other applications where expansion bolts are not acceptable.*

*Use a tape measure to ensure that proper width alignment is maintained between the side columns, at the top and bottom ends of each column. DO NOT tighten the anchors at this time.*

- Mount the other side column to the wall in the same manner as outlined above for the first side column.

## SPREADER ASSEMBLY

### Door without Hood Assembly

- Attach an L-shaped support bracket to each end of the spreader extrusion using two 3/8-16 x 1 1/4-in. serrated-flange hex screws and nuts. The brackets and mounting hardware were shipped in the small parts carton. (See Figure 14.)

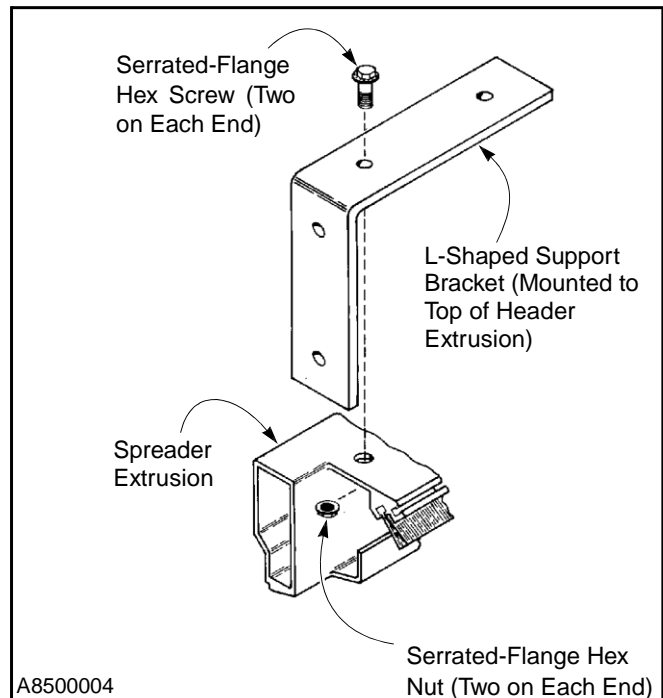


Figure 14

- Attach the spreader assembly to the inside face of each side column using two 3/8-16 x 1 1/4-in. serrated-flange hex screws and nuts at each end of the assembly. Face the spreader so the brush is toward the front of the door. (See Figure 15.)

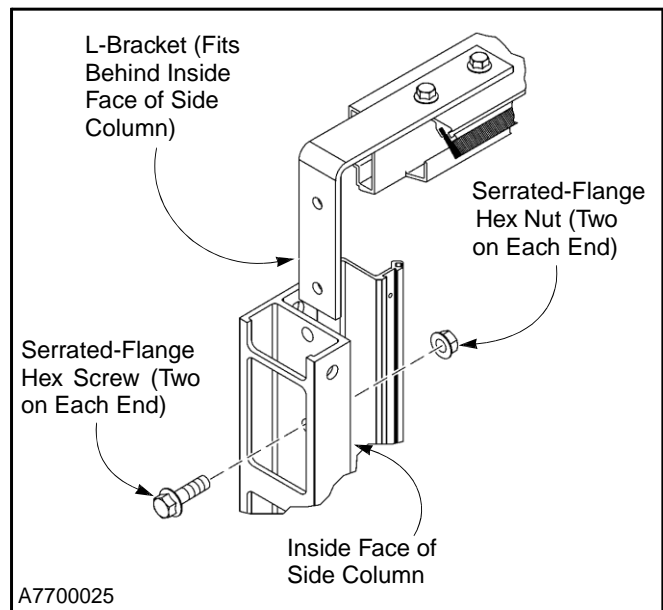


Figure 15

- Check that the side columns are plumb and square with the floor and wall.
- Tighten all anchor hardware securing both side columns (or pullouts) to the wall.

5. Remove any bar clamps that may have been used to temporarily hold the side columns (or pullouts) to the wall.

### Door with Hood Assembly

*NOTE: DO NOT change the location of the drive motor without first contacting your Rytec representative or the Rytec Technical*

*Support Department at 800-628-1909.*

1. Identify the drive motor side column by the wire access holes along its outside edge. This is important for the proper installation of the spreader assembly.
2. Attach a spreader assembly U-bracket on the outside face of each side column using two  $\frac{3}{8}$ -16 x  $1\frac{1}{4}$ -in. serrated-flange hex screws and nuts for each bracket. The U-brackets and mounting hardware were shipped in the small parts carton. (See Figure 16.)

**IMPORTANT:** *Attach the large U-bracket to the drive motor side column with the screw hole located  $6\frac{3}{4}$ -in. from the end of the bracket, nearest to the outside face of the side column. (See Figure 16.)*

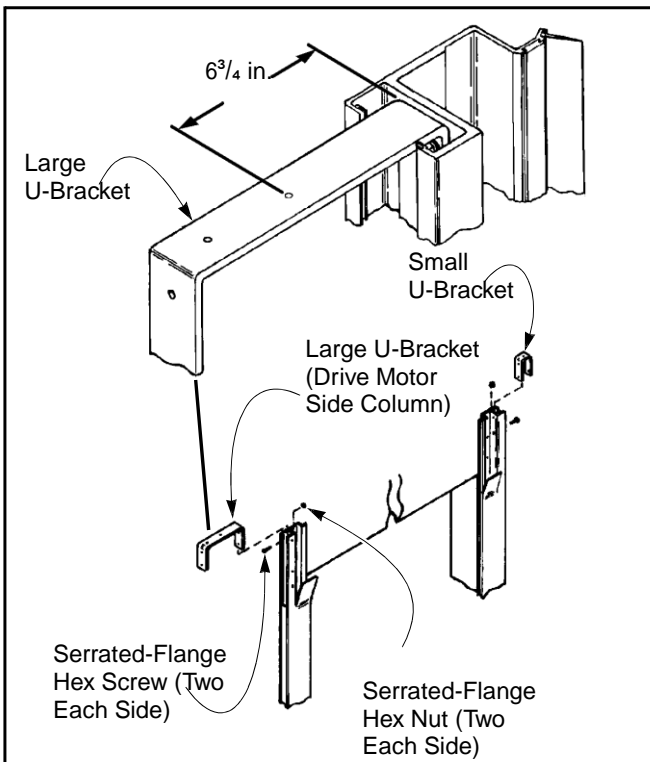


Figure 16

3. Attach the spreader assembly to the U-brackets using two  $\frac{3}{8}$ -16 x  $1\frac{1}{4}$ -in. serrated-flange hex screws and nuts at each end of the assembly. Face the spreader so the brush is toward the front of the door. (See Figure 17.)

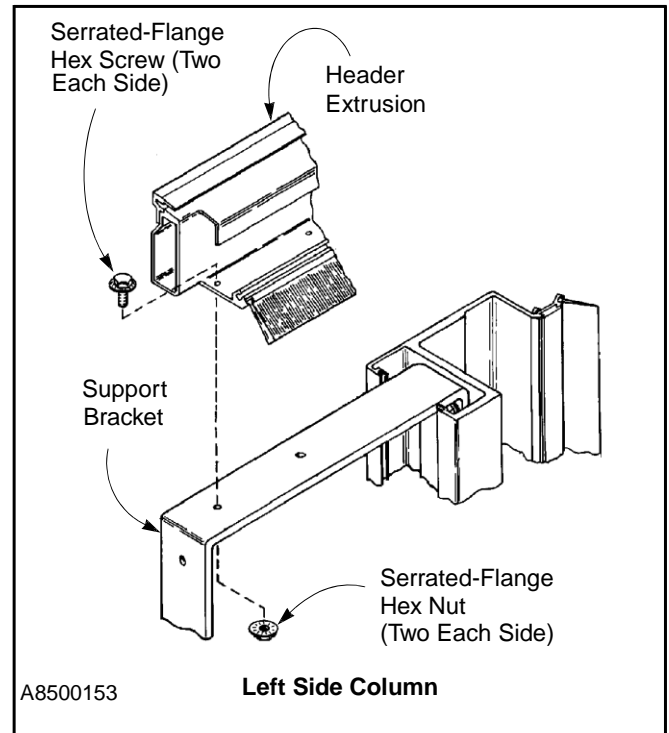


Figure 17

4. Check that the side columns are plumb and square with the floor and wall.
5. Tighten all anchor hardware securing both side columns (or pullouts) to the wall.
6. Remove any bar clamps that may have been used to temporarily hold the side columns (or pullouts) to the wall.

### HEAD ASSEMBLY

1. Before removing the head/fabric roll assembly from the shipping crate, locate four  $\frac{1}{2}$ -13 x  $1\frac{1}{4}$ -in. serrated-flange hex screws, four  $\frac{1}{2}$ -13 serrated-flange nuts, and the flange bearing assembly in the small parts carton.

*NOTE: On a door configured with pullouts, the four  $1\frac{1}{4}$ -in. long serrated-flange hex screws mentioned above in step 1 were not shipped with the door. Instead, the longer  $\frac{1}{2}$ -13 x 6-in. hex screws that were installed earlier will be used to attach the head assembly to the side columns.*

## INSTALLATION—HEAD ASSEMBLY

Also, some oversized doors (with or without pullouts) require a steel spacer between both side columns and the head assembly. If your door is oversized, locate two 9-in. x 1<sup>3</sup>/<sub>4</sub>-in. steel spacers shipped in the small parts carton. (The spacers are further identified by a hole at each end.)

If spacers were included in the small parts carton but the door does not include pullouts, four 1/2-13 x 2-in. serrated-flange hex screws were substituted for the slightly shorter 1/2-13 x 1<sup>1</sup>/<sub>4</sub>-in. screws mentioned above in step 1. The 2-in. screws were shipped in the small parts carton.

2. Remove the head/fabric roll assembly from the shipping crate.



Before the head/fabric roll assembly is lifted into place, make sure both side columns are secured to the building wall.

Also, the head/fabric roll assembly must be secured to the forklift before lifting it in place. Failure to properly secure the side columns or the head/fabric assembly can result in serious personal injury and property damage. DO NOT remove the forklift from under the head/fabric roll assembly until it is secured to both side columns.



Use care when handling the fabric roll to ensure that the fabric is not torn or damaged. DO NOT remove the shipping bands holding the fabric to the roll.

**IMPORTANT:** Install the head/fabric roll assembly with the bottom bar/fabric roll coming off the back of the drum assembly.

3. Using a forklift, lift the head/fabric roll assembly in place.
4. Position the head assembly in front of the pair of holes near the top of each side column. Align the holes in the motor mounting bracket with the holes in the side column. (See Figure 18.)

**NOTE:** If your door includes pullouts, align the holes in the motor mounting bracket with the two 1/2-13 x 6-in. hex screws installed earlier through the pullout/side column assembly.

**IMPORTANT:** If your door is oversized, two large spacers were included in the small parts carton. Failure to install a spacer between the motor mounting bracket and flange bearing assembly could result in damage to the door. (See Figure 18 and Figure 19.)

5. Attach the motor mounting bracket to the side column using two 1/2-13 x 1<sup>1</sup>/<sub>4</sub>-in. serrated-flange hex screws and nuts (or two 1/2-13 x 2-in. screws and nuts if spacers are required, or nuts only if 6-in. screws were installed earlier). DO NOT tighten the hex nuts at this time. (See Figure 18.)

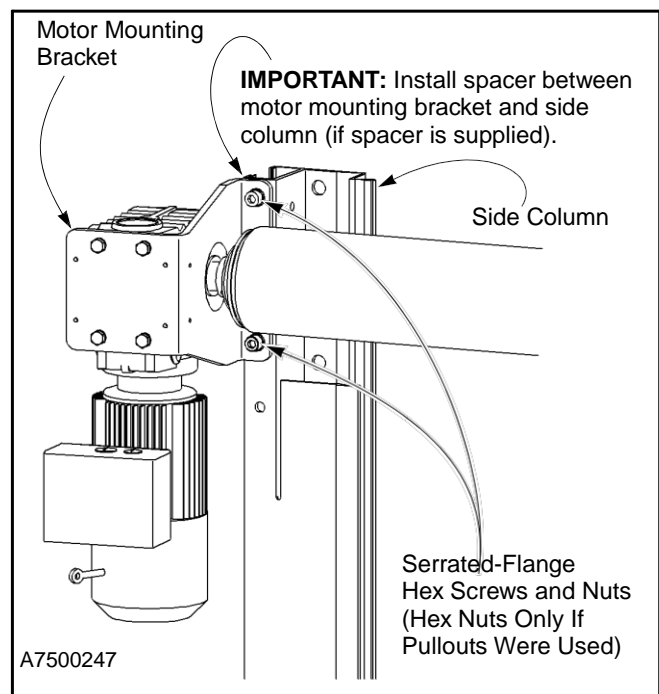


Figure 18

6. Slide the flange bearing assembly over the drum shaft at the non-drive end of the head/fabric roll assembly. (See Figure 19.)

**IMPORTANT:** If your door requires spacers, be sure to install a spacer between the flange bearing assembly and the side column. (See Figure 19.)

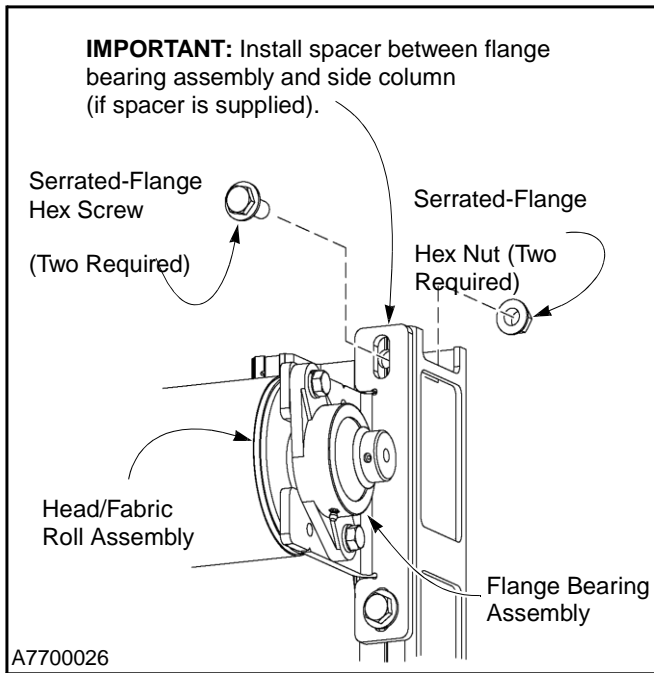


Figure 19

7. Bolt the flange bearing assembly to the side column using two 1/2-13 x 1 1/4-in. serrated-flange hex screws and nuts (or two 1/2-13 x 2-in. screws and nuts if spacers are required, or nuts only if 6-in. screws were installed earlier). DO NOT tighten the hex nuts at this time.

**IMPORTANT:** If the drum/fabric roll assembly cannot be made level by adjusting the flange bearing mounting bracket up or down, verify that the side columns are plumb, square and level and make any necessary adjustments.

8. Place a carpenter's level along the length of the drum/fabric roll assembly and adjust the flange bearing mounting bracket up or down, as required, until the drum/fabric roll assembly is level.

Tighten the hardware securing the motor and the flange bearing mounting brackets to the side columns. Then tighten the set screw to lock the flange bearing to the drum shaft. (See Figure 20 and Figure 21.)



**For a door with pullouts, verify that the two hex nuts threaded on each 6-in. screw are tight against their associated side column and mounting bracket. Failure to tighten all eight nuts could result in damage to the side columns. (See Figure 21.)**

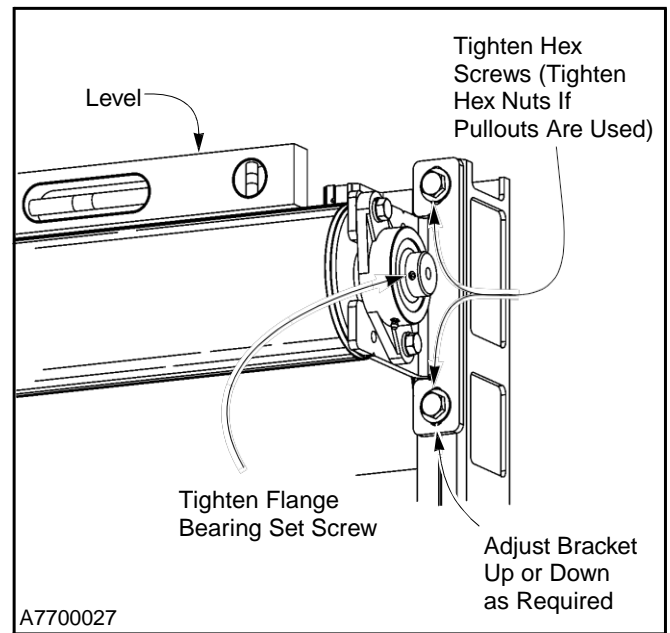


Figure 20

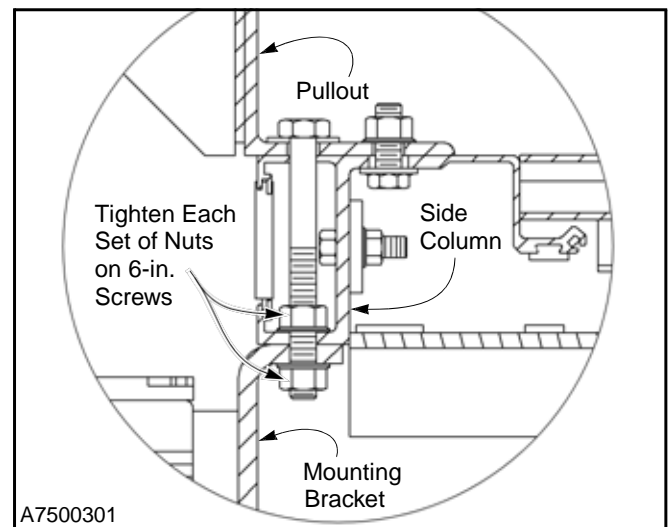


Figure 21



**DO NOT remove the shipping bands holding the fabric material to the drum roll assembly at this time.**

9. Do not remove the shipping bands securing the fabric material to the drum roll. Only remove the fasteners securing the drum assembly to the forklift. Then lower and move the forklift out of the way.

## INSTALLATION—FLEXIBLE BOTTOM EDGE

### FLEXIBLE BOTTOM EDGE

1. Check the brake release lever located on the motor/ brake assembly. The brake must be in the engaged position. (See Figure 22.)

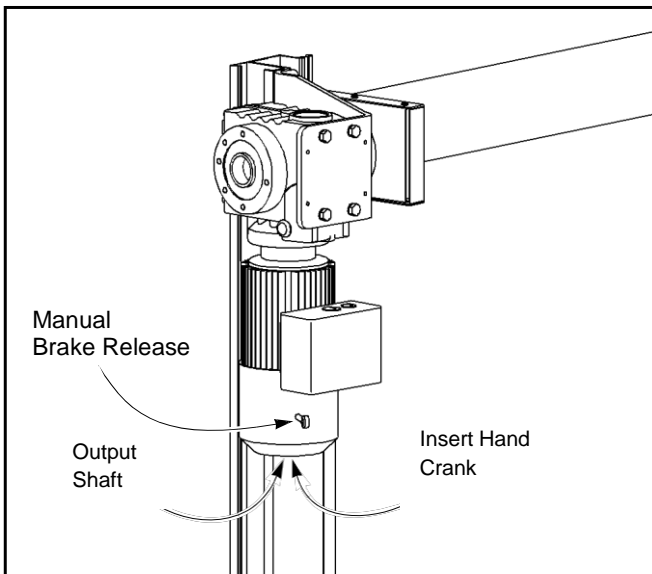


Figure 22

**NOTE:** When released, the motor brake will default to the ENGAGED position.

2. Cut and remove the shipping bands holding the fabric to the roll.
3. Insert the plastic tabs on the flexible bottom edge into the slot of each side column. (See Figure 23.)

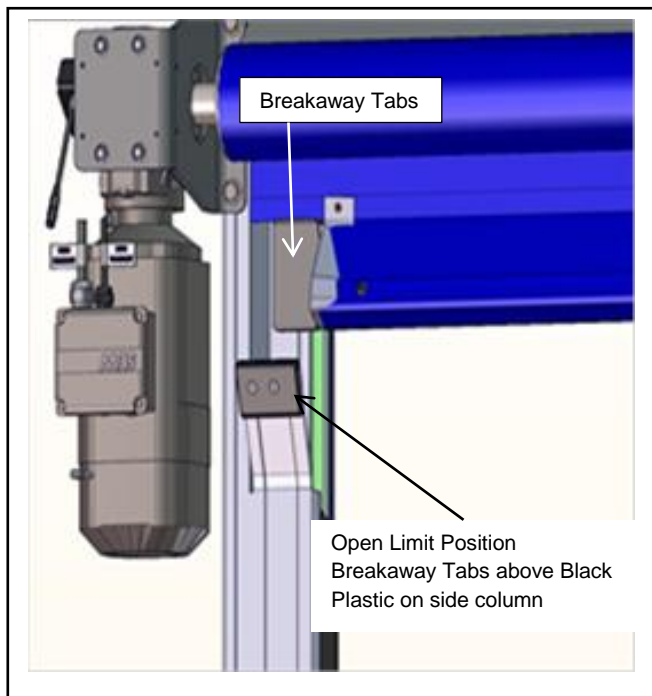


Figure 23

### ENCODER, ANCHOR HOLE PLUGS, AND CAULKING

#### Encoder

1. Install the encoder coupling shaft to the end of the motor drive shaft using a ½-13 X 1-in. hex head cap screw, washer and a split lock washer.
2. Install the Feig encoder hub shaft end to the end of the encoder coupling shaft and tighten set screw. Use mild thread lock on set screw.
3. Install encoder mounting plate with encoder using four M8 x 1.25 x 18mm socket head cap screws.
4. Connect encoder cable to the cable from the System4 control panel.
5. Install plastic zip tie into socket head cap screw and secure the encoder cable. (See figure 24)

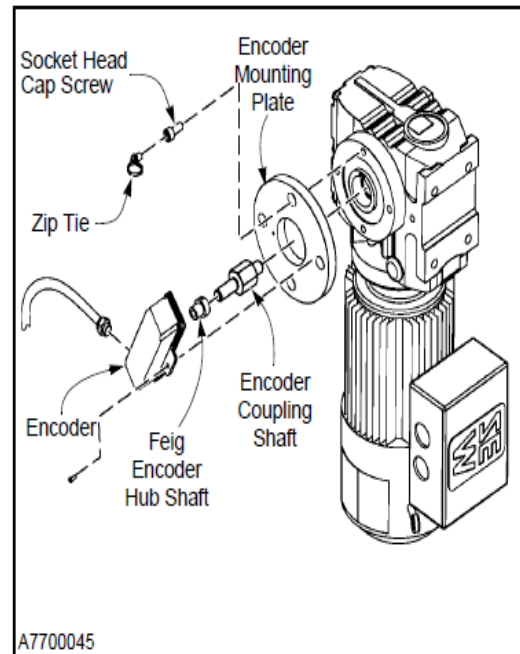


Figure 24

**NOTE:** The zip tie that is used to secure the encoder cable is of special design. The ribbed end inserts into the valley of the socket head cap screw.

### Anchor Hole Plugs

Insert black plastic plugs in all anchor bolt holes on face of side column. (See Figure 25.) The plugs are shipped in the small parts carton.

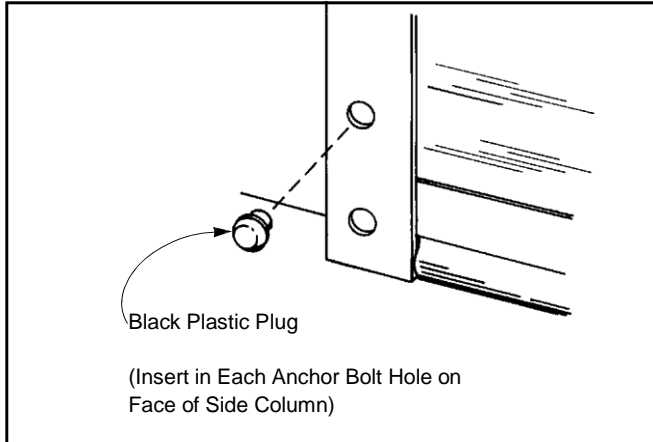


Figure 25

### Caulking

Caulk between the side columns, the head extrusion, and the wall. Use a construction grade caulk.

# INSTALLATION—PHOTO EYE

## PHOTO EYE

The photo eye is a safety measure and therefore needed for proper door operation. When installing photo eyes on the back side of the door, make sure the installation is opposite from the front. The end result would be photo eye beams that cross. (See Figure 26 and Figure 27.)

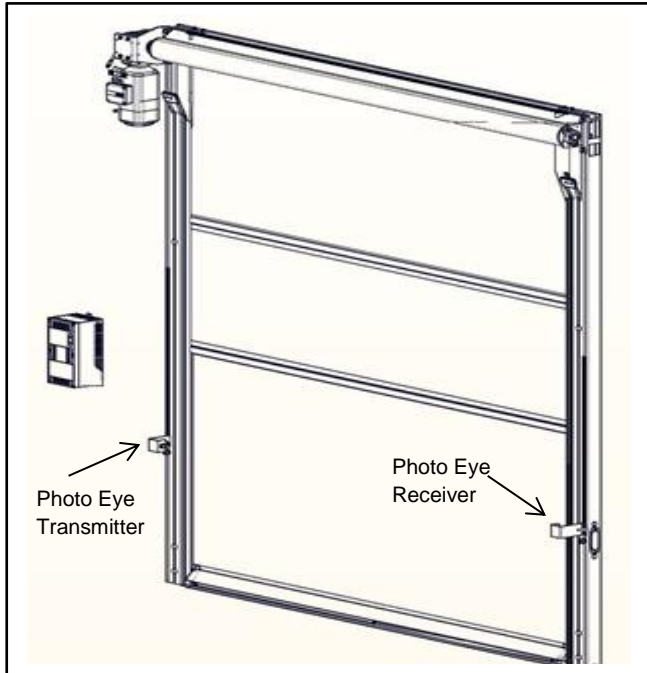
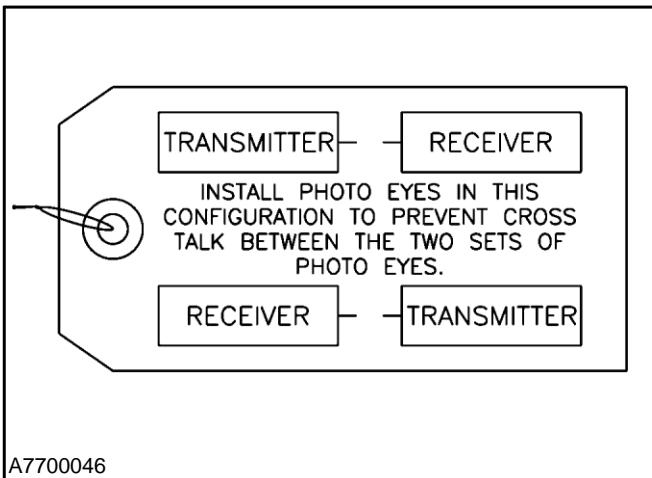


Figure 26

**IMPORTANT:** When installing the rear set of photo eyes, be sure that the assembly is installed in reverse order from the front. This is to prevent crosstalk between the photo eyes. (See Figure 27.)

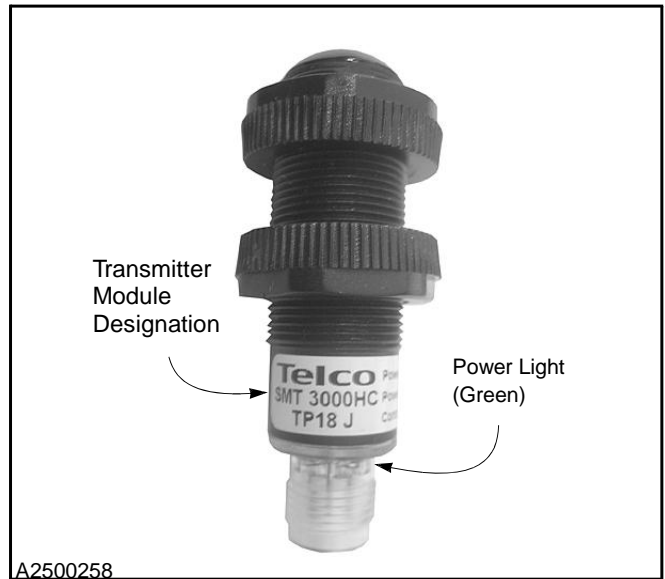


A7700046

Figure 27

The transmitter and receiver can be identified two ways. The transmitter is designated SMT 3000 on the white label or by a single green light that comes on at the clear end of the transmitter. (See Figure 28.) The receiver is designated SMR 3215 on the white label or by a yellow light that illuminates only when it is in proper alignment with the transmitter. (See Figure 29.)

*NOTE:* When the cable is connected to the photo eye, there is only a 1/4-inch window to see the green or yellow LED light. (See Figure 32.)



A2500258

Figure 28



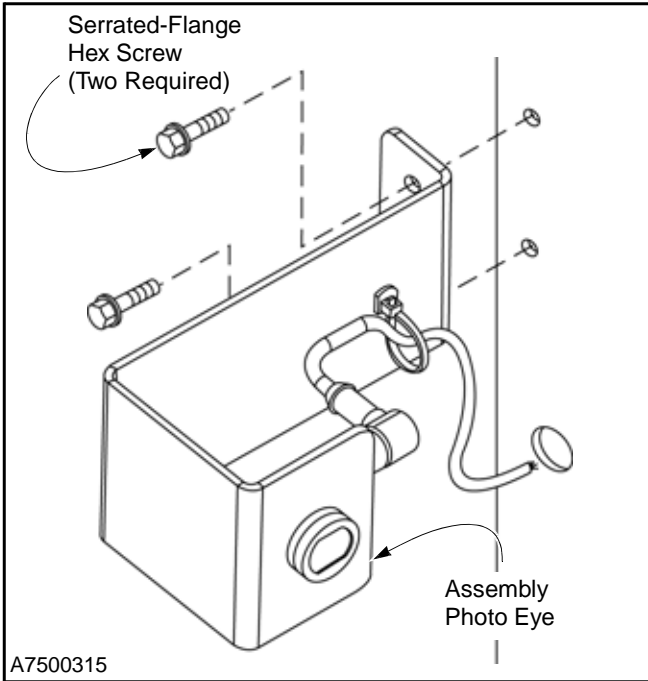
A2500259

Figure 29



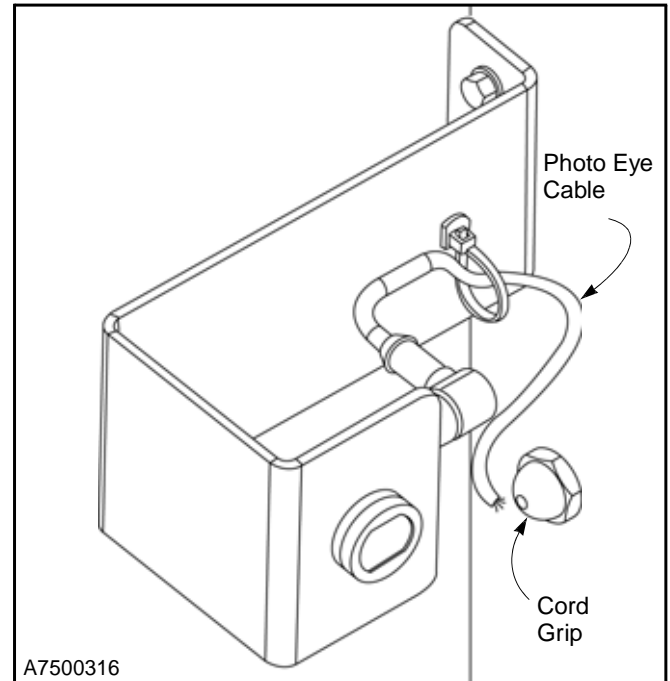
1. Install the photo eye assembly on the motor mount side column with two  $\frac{1}{4}$ -20 x  $\frac{3}{4}$ -in. serrated-flange hex screws. The mounting holes are located approximately 40 in. from the floor. (See Figure 30.)

*NOTE: Photo eyes and mounting hardware are shipped in the small parts carton. The two sets of photo eyes provided must both be properly installed. (See Figure 27.)*



**Figure 30**

2. Install the cord grip in the side column, just below the photo eye assembly. (See Figure 31.)
3. Feed photo eye cable through the cord grip. Remove all slack in the cord between the photo eye and grip. Tighten the cord grip. (See Figure 31.)



**Figure 31**

4. Install photo eye assembly on the non-drive side column with two  $\frac{1}{4}$ -20 x  $\frac{3}{4}$ -in. serrated-flange hex screws.
5. Feed photo eye cable through the cord grip. Remove all slack in the cord between the photo eye and grip. Tighten the cord grip.

*NOTE: Mounting hardware for the second set of photo eyes has been provided. If this hardware will not work for your application, any additional required hardware becomes the responsibility of the installer.*

6. Mount the second photo eye assembly on the wall adjacent to the back of the door. The photo eye emitter and receiver are to be mounted at the same height as the photo eye assembly on the front of the door, but as close to the door as possible.

### Testing Photo Eye Modules

When power is on, the green light indicates the photo eye module is powered up. When the yellow light on the receiver module is also lit, the transmitter and receiver modules are properly aligned. Placing your hand in front of the receiver breaks the light path and causes the yellow light to go out. Removing your hand causes the yellow light to go back on.

# INSTALLATION—ELECTRICAL WIRING ROUTING

## ELECTRICAL WIRING ROUTING

1. Locate the Rytec control box and fused disconnect as shown in Figure 32.

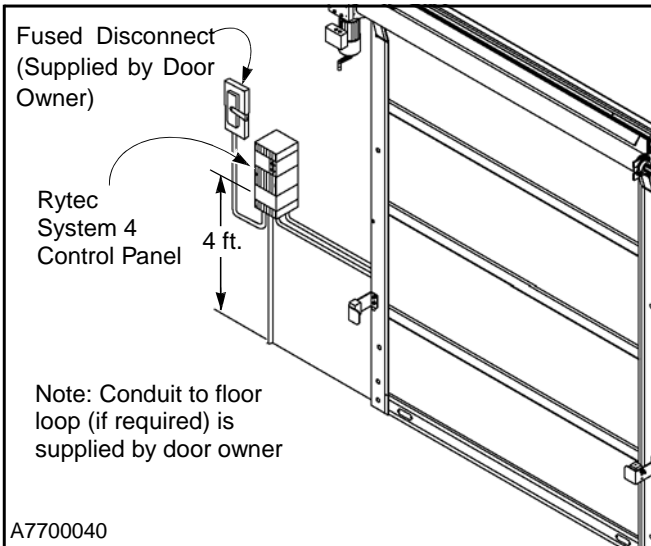


Figure 32



**The fused disconnect must be in the OFF position and the fuses removed before wiring of the control box begins.**

2. Locate and remove the access covers and hole plugs from the side column to gain access to the wires. (See Figure 33.)

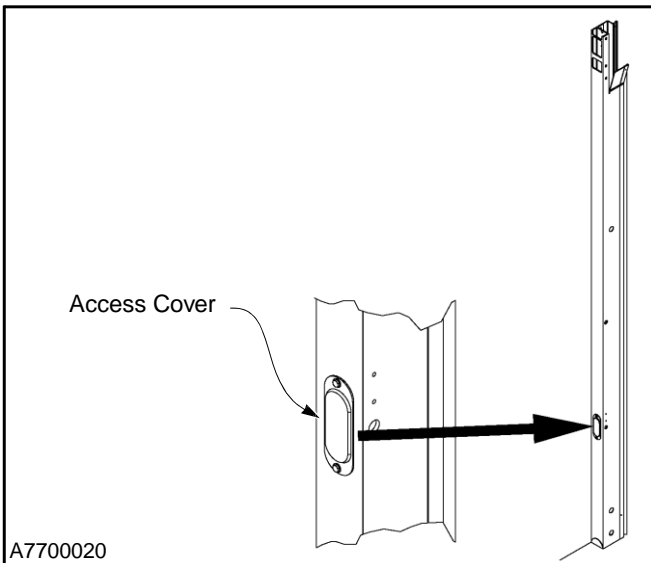


Figure 33

3. Route the encoder and magnetic reed sensor cables (left & right) down to the access hole in the side column cover. (See Figure 34.)

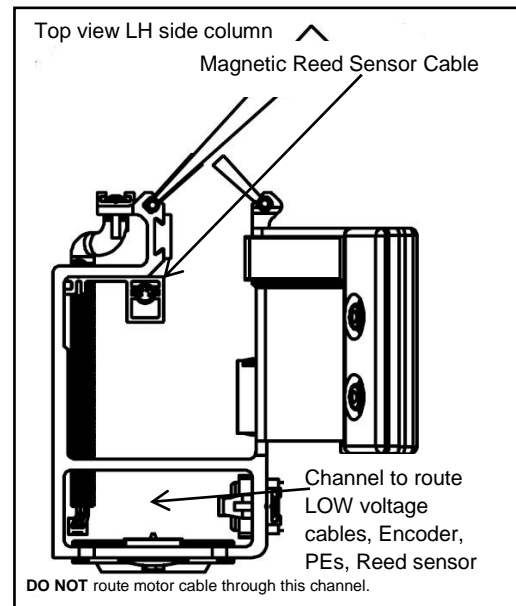


Figure 34

**IMPORTANT: Never run high and low voltage wires together.**

## CONTROL PANEL AND ELECTRICAL CONNECTIONS

Once the door has been assembled, see the Rytec System 4 Drive & Control Installation & Owner's Manual for information on control panel installation, electrical connections, door limit settings, and initial door start-up procedure.

**NOTE:** If a floor loop is used, all wiring from the fused disconnect to the control box and from the control box to the motor mount side column, as well as conduit running from the control box to the floor, is provided by the door owner/installer or the electrician. All wiring and conduit must meet all local and state codes. Wires provided with the door are labeled with terminal or contact numbers.

## DOOR OPEN- AND CLOSE-LIMIT POSITIONS

See the Rytec System 4 Drive & Control Installation & Owner's Manual for the proper procedure for setting the open and close door limits. The door open- and close- limit positions are detailed below.

### Close-Limit Position

The close-limit position should be adjusted so that the door travel allows the vinyl covered flexible edge to gently seal against the floor. (See Figure 35.)



Damage to the vinyl, flexible rubber edge or other bottom edge parts can occur if the door seal is allowed to seal too tightly against the floor.

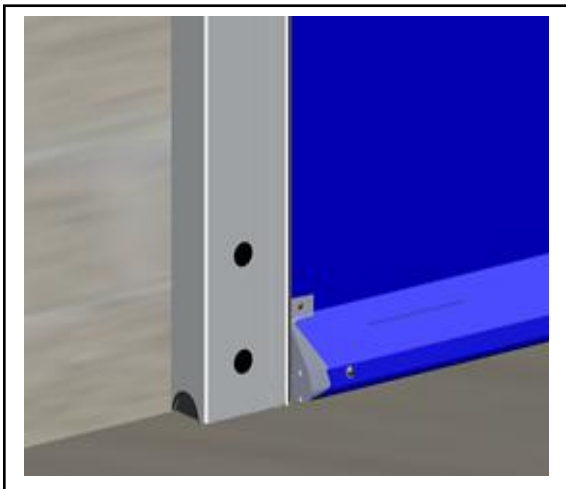


Figure 35

### Open-Limit Position

The open-limit position should be adjusted so that the door travel allows the flexible edge assembly to stop at the position shown in Figure 36.

*NOTE: It is important that the plastic breakaway tabs on the ends of the flexible bottom edge are above the black plastic tab on the side column. This open-limit setting height allows the door to be jogged to the proper height to allow for the re-setting of the flexible bottom edge if the door is broken away.*

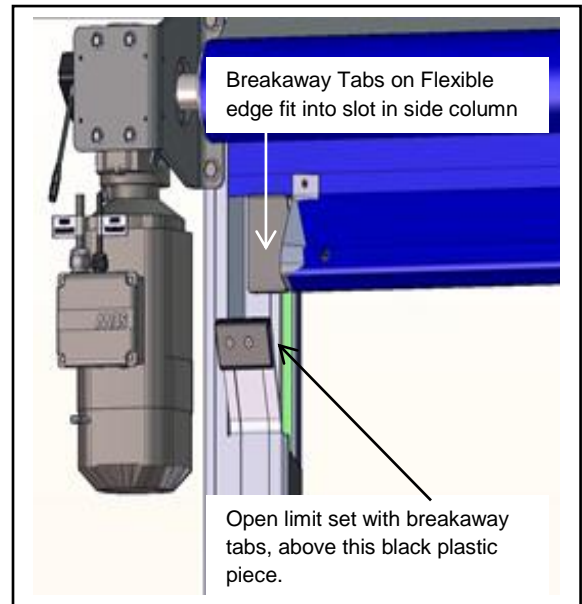


Figure 36

# INSTALLATION—RESETTING FLEXIBLE EDGE ASSEMBLY

## RESETTING FLEXIBLE BOTTOM EDGE ASSEMBLY



If the flexible bottom edge or door panel assembly has been damaged, remove door from service.

1. Position the breakaway tabs of the flexible bottom edge in front of the side column where the angled guide plate is located. The flexible bottom edge can also simply be lifted and placed by hand into the side columns and the door will begin standard operation. (See Figure 37.)

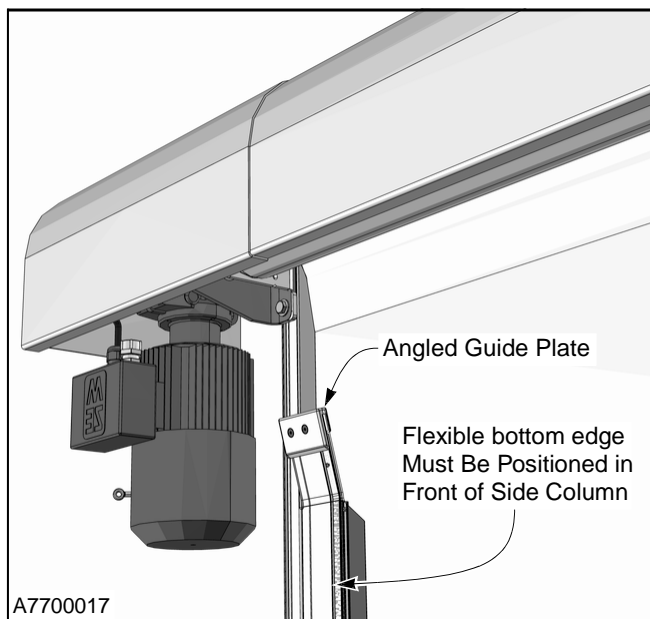


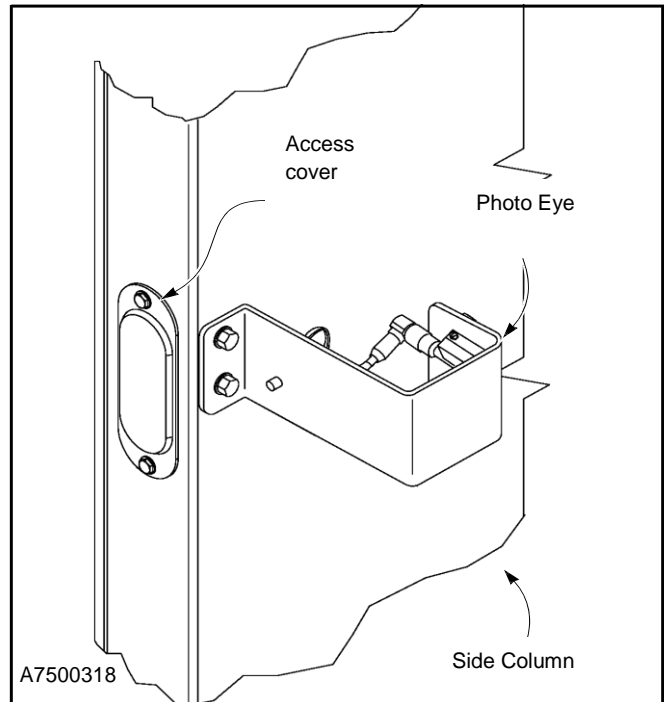
Figure 37

2. Press and hold the up arrow on the control panel until the door is in the fully open position.
3. Press the down arrow and the door will close in automatic mode and be ready for service.

*NOTE: Check to make sure that the fabric is inside each channel.*

4. Perform operations check on the door.

## PHOTO EYE ADJUSTMENT



1. Check to see that the photo eye on the front side of the door has been installed for a horizontal beam across the door opening. (See Figure 38.)

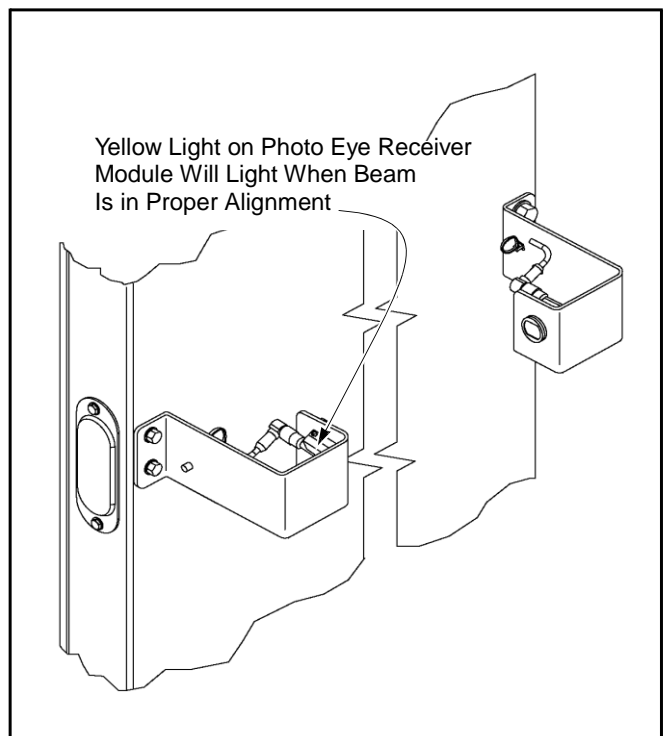


Figure 38

2. Align the photo eyes on the front side of the door.  
(See Figure 38.)
3. Adjust the photo eyes on the rear side of the door as required, dependent on the type of mounting used by the installer.

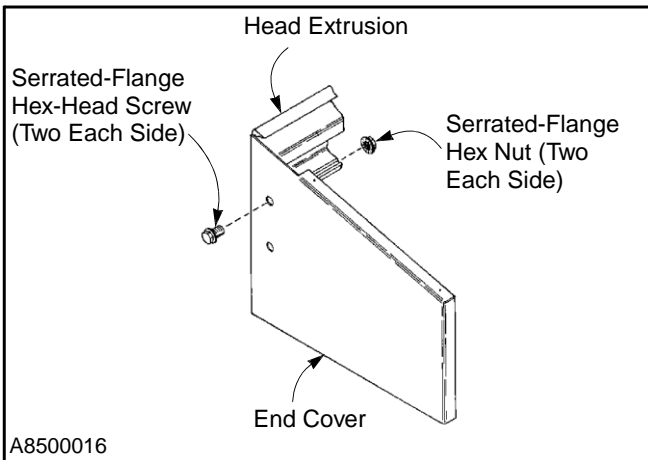
**NOTE:** Pre-drilled mounting holes have been provided in the side columns to mount the photoeyes. However, it is important to verify with the customer what type of equipment is moving through the door. Large equipment may allow the photoeye beam to shoot under the equipment causing the door to close on the equipment. Different mounting locations may be required.

## ALUMINUM HOOD (OPTIONAL)

**NOTE:** The following procedure is required only if your door was shipped with an optional hood assembly.

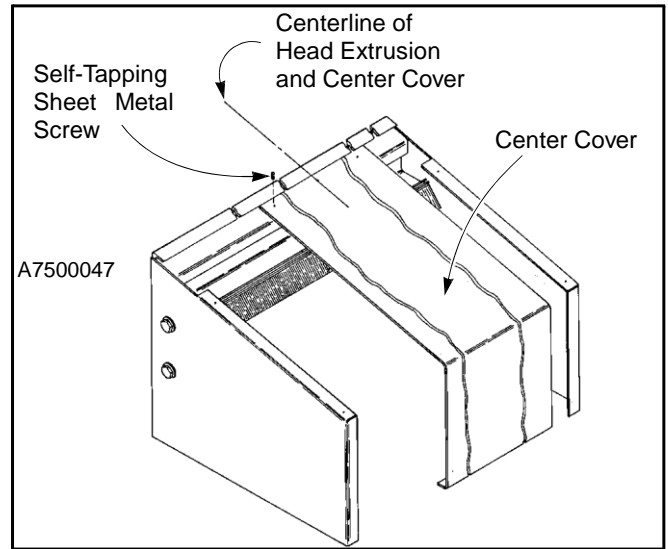
A door with a production width of up to 8 ft. 3 in. will have a one-piece hood. A door with a production width greater than 8 ft. 3 in. will have a three- or four-piece hood. The installation procedure is the same for either style of hood except where noted.

1. Attach the hood end covers to their respective U-bracket installed earlier on the side columns. Use two  $\frac{3}{8}$ -16 x  $1\frac{1}{4}$ -in. serrated-flange hex screws and nuts for each end cover. (See Figure 39.)



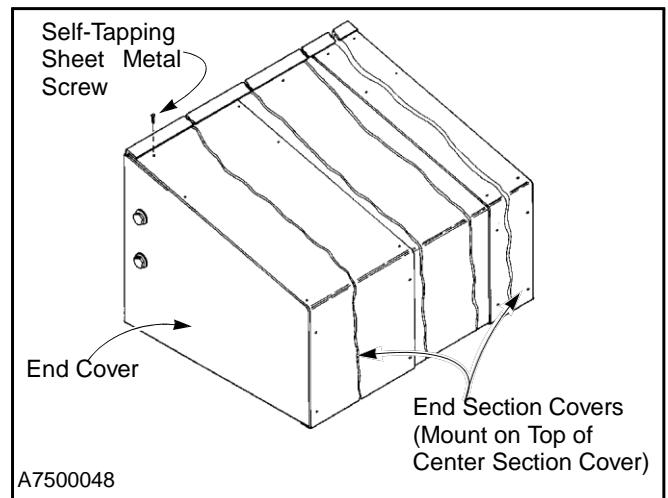
**Figure 39**

2. Attach the center hood cover section (one-piece hood) or the end hood cover sections (three- or four-piece hood) to the head extrusion. (See Figure 40.) Secure cover to extrusion and end panels using #12 x  $\frac{3}{4}$ -in. self-tapping sheet metal screws.



**Figure 40**

3. Three- or four-piece hood only: Install hood center section(s) and secure to hood end sections using #12 x  $\frac{3}{4}$ -in. self-tapping sheet metal screws. (See Figure 41.)



**Figure 41**

## INSTALLATION—ABS HOOD (OPTIONAL)

### ABS HOOD (OPTIONAL)

1. Attach the hood support assembly to the top of the side columns using two  $\frac{3}{8}$ -16 x 1-in. serrated-flange hex screws and nuts on each end. (See Figure 42.)

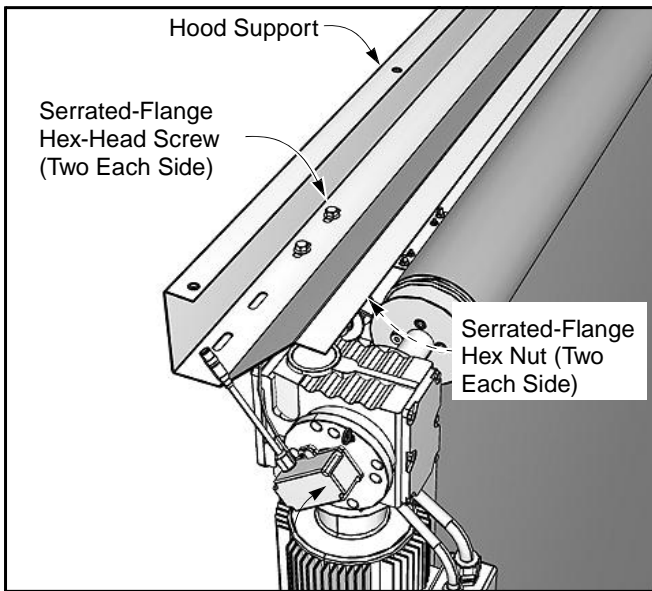


Figure 42

2. Assemble the motor cover, motor bracket, hood cap, and hood using  $\frac{1}{4}$ -20 UNC x  $\frac{3}{4}$  serrated-flange hex screws. (See Figure 43.)

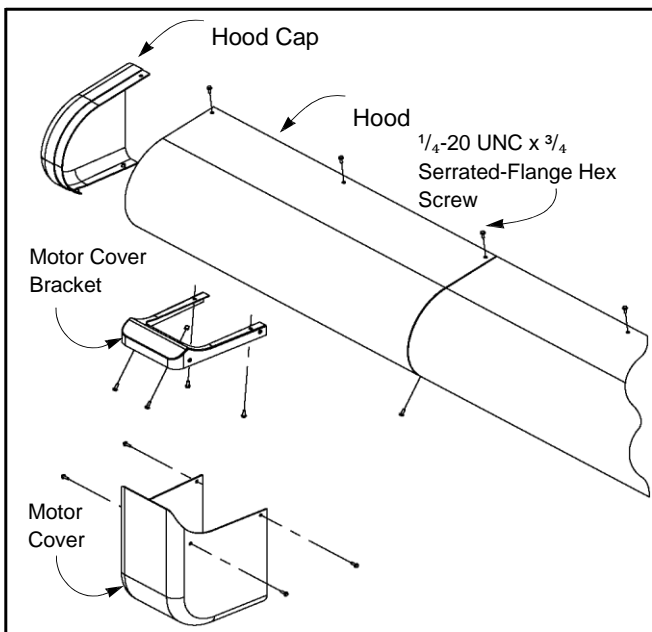


Figure 43

3. Install the center hood piece(s) and other hood cap.

**NOTE:** Pay close attention to the reliefs in the hood assembly. The middle hood sections overlap each piece for a smooth and clean assembly. The two hood caps tuck under the middle hood sections, followed by screws to tighten and finish off the assembly.

### FINAL CHECKS

**Side Columns:** Check to see that the side columns are installed plumb and square and that all anchor bolts are securely tightened.

**Header Assembly:** Check all mounting hardware to see if it is tight.

**Head Assembly:** Fabric roll must be level. All mounting hardware must be tight.

**Caulking:** See that side columns and head assembly have been caulked where they meet the building wall.

**Flexible bottom edge:** The Flexible bottom edge must travel freely in the side columns.

**Open and Close Limits:** Check that limits are set properly. Downward travel of the door panel must stop when the vinyl covered flexible edge seals against the floor as shown in Figure 35. Upward travel should be as shown in Figure 36.

**Motor Operation:** Verify that the motor cycles the door in the proper direction when keys on front of the control box are pressed.

**Timers:** Timers must be set to ensure proper closing of the door. See Rytec System 4 Drive & Control Installation & Owner's Manual for more information on timer settings.

**Activator Settings:** *Recheck all settings and adjust as required.*

**Photo Eyes:** Check to see that front and rear photo eyes are operating properly.

Refer to PredaFlex™ Owner's Manual for proper complete operating, inspection, and maintenance procedures.





