Bantam®
(Manual Operation)

Installation & Owner’s Manual
WARRANTY

The Bantam Dock Door purchased by you ("Buyer") should not be installed or operated before you read the product manuals explaining the proper methods of installing, operating and maintaining the equipment.

Rytec Corporation ("Seller") warrants that the Bantam Dock Door ("Product") sold by it to the Buyer will be free from defects in materials and workmanship under normal use for a period of twelve months from the date of shipment of the Product from Seller's plant. Electrical components are warranted for a period of ninety (90) days from date of shipment. In addition, the Seller offers an extended two (2) year warranty on the 2-ply Rilon door panel material. This extended warranty covers parts only. If within the applicable period any Products shall be proved to Seller's satisfaction to be defective, such Product shall be repaired or replaced at Seller's option. Such repair or replacement shall be Seller's sole obligation and Buyer's exclusive remedy hereunder and shall be conditioned upon Seller's receiving written notice of any alleged defect within ten (10) days after its discovery and, at Seller's option, return of such Product to Seller, f.o.b. its factory. THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER REPRESENTATION AND WARRANTIES, EXPRESS OR IMPLIED, AND SELLER EXPRESSLY DISCLAIMS AND EXCLUDES ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE.

PARTS AND ASSEMBLIES sold separately by Rytec Corporation that fail due to defects in material or workmanship within NINETY (90) days from the date of shipment or installation will be replaced under warranty provided installation has been carried out in accordance with Rytec procedures. This warranty is limited to providing a replacement part only, not including freight, special charges or cost of installation.

Any description of the Product, whether in writing or made orally by the Seller or Seller's agents, specifications, samples, models, bulletins, drawings, diagrams, engineering or similar materials used in connection with Buyer's order are for the sole purpose of identifying the Product and shall not be construed as an express warranty. Any suggestions by Seller or Seller's agents regarding use, application or suitability of the Product shall not be construed as an express warranty unless confirmed to be such in writing by Seller.

Seller's liability with respect to the Product sold to Buyer shall be limited to the warranty provided herein. SELLER SHALL NOT BE SUBJECT TO ANY OTHER OBLIGATIONS OR LIABILITIES, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORIES OF LAW, WITH RESPECT TO PRODUCTS SOLD OR SERVICES RENDERED BY SELLER, OR ANY UNDERTAKING, ACTS OR OMISSIONS RELATING THERETO. Without limiting the generality of the foregoing, Seller specifically disclaims any liability for property or personal injury damages, penalties, special or punitive damages, damages for lost profits or revenue, services, down time, shut down or slow down costs, or for any other types of economic loss, and for claims of Buyer's customers or any third party for any such damages. SELLER SHALL NOT BE LIABLE FOR AND DISCLAIMS ALL CONSEQUENTIAL, INCIDENTAL AND CONTINGENT DAMAGES WHATSOEVER.

This warranty shall be void in its entirety if failure of any product shall be caused by any installation, operation or maintenance of the Product which does not conform with the requirements set forth by Seller in the applicable product manuals or is the result of any cause other than a defect in the material or workmanship of the Product.

11/21/96
# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTRODUCTION</td>
<td>1</td>
</tr>
<tr>
<td>HOW TO USE MANUAL</td>
<td>1</td>
</tr>
<tr>
<td>INSTALLATION</td>
<td></td>
</tr>
<tr>
<td>TOOLS AND EQUIPMENT REQUIRED</td>
<td>2</td>
</tr>
<tr>
<td>BASIC JOB REQUIREMENTS</td>
<td>2</td>
</tr>
<tr>
<td>GENERAL ARRANGEMENT OF DOOR PARTS</td>
<td>2</td>
</tr>
<tr>
<td>ANCHORING METHODS</td>
<td>3</td>
</tr>
<tr>
<td>Concrete or Brick Wall</td>
<td>3</td>
</tr>
<tr>
<td>Wood or Brick Wall</td>
<td>3</td>
</tr>
<tr>
<td>Insulated Walls</td>
<td>3</td>
</tr>
<tr>
<td>LOCATING THE CENTERLINE OF THE DOOR OPENING</td>
<td>4</td>
</tr>
<tr>
<td>LOCATING SIDE COLUMNS</td>
<td>4</td>
</tr>
<tr>
<td>INSTALL SIDE COLUMNS</td>
<td>5</td>
</tr>
<tr>
<td>INSTALL HEADER ASSEMBLY</td>
<td>5</td>
</tr>
<tr>
<td>Doors without Hood Assembly</td>
<td>6</td>
</tr>
<tr>
<td>Doors with Hood Assembly</td>
<td>6</td>
</tr>
<tr>
<td>INSTALL HEAD ASSEMBLY</td>
<td>8</td>
</tr>
<tr>
<td>INSTALL CHAIN AND CHAIN KEEPER</td>
<td>8</td>
</tr>
<tr>
<td>Chain Installation</td>
<td>9</td>
</tr>
<tr>
<td>Chain Keeper Installation</td>
<td>10</td>
</tr>
<tr>
<td>INSTALL BOTTOM BAR</td>
<td>11</td>
</tr>
<tr>
<td>INSTALL ANCHOR HOLE PLUGS AND CAULKING</td>
<td>11</td>
</tr>
<tr>
<td>Anchor Hole Plug Installation</td>
<td>11</td>
</tr>
<tr>
<td>Caulking</td>
<td>11</td>
</tr>
<tr>
<td>INSTALL HOOD</td>
<td>11</td>
</tr>
<tr>
<td>FINAL CHECKS</td>
<td>12</td>
</tr>
<tr>
<td>OPERATION</td>
<td></td>
</tr>
<tr>
<td>GENERAL ARRANGEMENT OF DOOR PARTS</td>
<td>13</td>
</tr>
<tr>
<td>OPEN/CLOSE DOOR</td>
<td>13</td>
</tr>
<tr>
<td>To Open the Door</td>
<td>13</td>
</tr>
<tr>
<td>To Close the Door</td>
<td>13</td>
</tr>
</tbody>
</table>
DRIVE SYSTEM OPERATION ................................................................. 14

BOTTOM BAR

Breakaway Feature—Impact .............................................................. 15
Breakaway Feature—Repair ............................................................... 15

PLANNED MAINTENANCE

RECOMMENDED SCHEDULE ............................................................. 16

WEEKLY INSPECTION

Visual Damage Inspection ................................................................. 16
Check Door Operation ...................................................................... 16

BI-ANNUAL INSPECTION

Mounting Hardware Inspection .......................................................... 18
Chain ................................................................................................. 18
Fabric Inspection .............................................................................. 18
Weather Seal Inspection
   HEADER ASSEMBLY ................................................................ 19
   SIDE COLUMNS ...................................................................... 19
Bottom Bar Inspection ...................................................................... 20
Lubrication ...................................................................................... 20
Governor Inspection ........................................................................ 21

REPLACEMENT PROCEDURES

WEATHER SEAL

Header Assembly ............................................................................. 22
Side Columns .................................................................................. 23

PARTS LIST

PARTS ORDERING INFORMATION

How To Order Parts ......................................................................... 25
Return of Repair Parts .................................................................... 25
Additional Information .................................................................... 25

DOOR FRAME/HOOD ASSEMBLY .................................................... 26
DOOR AND REDUCER .................................................................... 28
BOTTOM BAR ASSEMBLY ............................................................ 30
INTRODUCTION

The Rytec® Bantam® dock door is a manually-operated, low maintenance industrial door. The information contained in this manual will allow you to install, operate and maintain the door in a manner which will insure maximum life and trouble-free operation.

If you have any questions that have not been covered in this manual, contact your local Rytec representative or the Rytec Customer Support Department at 1-800-628-1909.

The installation of your Rytec Bantam dock door is not difficult providing the following procedures are adhered to. Any unauthorized changes in procedure, or failure to follow the steps as indicated, will automatically void our warranty. Any changes in the working parts, assemblies, or specifications as written, that have not been authorized by Rytec Corporation, will also cancel our warranty. The responsibility for the successful operation and performance of this door then becomes yours.

DO NOT INSTALL, OPERATE OR PERFORM MAINTENANCE ON THIS DOOR UNTIL YOU HAVE READ AND UNDERSTOOD THE INSTRUCTIONS CONTAINED IN THIS MANUAL. If you have any questions, call your Rytec representative or the Rytec Customer Support Department at 1-800-628-1909. Always refer to the door serial number when calling the representative or Rytec Customer Support Department. The serial number plate is located at the top of the right side column.

HOW TO USE MANUAL

Throughout this manual, the following key words are used to alert the reader of potential hazardous situations, or situations where additional information for successfully performing 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 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
1. Socket and wrench set
2. 1/2-inch diameter concrete anchor bolts
   (See ANCHORING METHODS on page 3.)
3. 1/2-inch diameter threaded rod.
   (See ANCHORING METHODS on page 3.)
4. Two ladders (taller than the door opening height)
5. Forklift
6. Carpenters or spirit level (4-foot long minimum)
7. Carpenters square
8. Hammer drill
9. 1/2-inch diameter masonry drill bits
10. 3—4 foot bar clamps
11. Hammer and mallets
12. Crowbar or prybar
13. Assorted hand tools (pliers, tape measure, etc.)
14. Assorted shim stock
15. Water level, line level or transit

BASIC JOB REQUIREMENTS
1. A forklift must be supplied by the customer, dealer or installer.
2. Two installers are required.
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.

GENERAL ARRANGEMENT OF DOOR PARTS
Figure 1 shows the location of major components of your Bantam dock door. This illustration should be used as reference only and should not be used as part of the installation instructions.
ANCHORING METHODS

Correct anchoring of the side columns to the wall is important for smooth and safe door operation. The wall material should be strong enough to support the door and anchors. Figures 2–6 show the most common anchoring methods; use the method that best fits your application. All anchoring hardware and material are the responsibility of the door owner and/or installer.

If you have any questions, call your Rytec representative or the Rytec Customer Support Department at 1-800-628-1909.

NOTE: Use 1/2-inch diameter expansion shell stud-type anchors for concrete walls, or 1/2-inch diameter threaded through bolts for brick walls or other applications where expansion bolts are not applicable.

Concrete or Brick Wall (Figure 2)

Wood or Brick Wall (Figure 3)

Insulated Walls (Figures 4–6)
LOCATING THE CENTERLINE OF THE DOOR OPENING

NOTE: Accurate measurement is critical to correct door installation. Verify all measurements before installing components.

Measure the door opening width in inches. Divide the width by two to obtain the centerline dimension. Mark the floor at the centerline. (See Figure 7.)

1/2 Door Opening Width

Opening Width

Centerline Door Opening

Figure 7

LOCATING SIDE COLUMNS

1. A door production layout drawing is attached to the small parts carton, located in the shipping crate. This drawing identifies the production width of your door.

2. Using the production width from the layout drawing, measure out from the door opening centerline, 1/2 of the production width and mark the floor on each side of the centerline.

3. Using a carpenters square, mark a line on the floor at each end of the production width line. The line should extend at least one foot out from the wall. (See Figure 8.)

NOTE: Contact the Rytec Customer Support Department if the floor is more than 1 inch out of level.

LOCATING SIDE COLUMNS

4. Check the floor on each side of the door opening for level. If one side of the opening is higher than the other, shimming under the side column will be required.

Figures 9 and 10 show two recommended methods that can be used to assure a level side column installation.

NOTE: Contact the Rytec Customer Support Department if the floor is more than 1 inch out of level.

CAUTION

This door is equipped with a breakaway bottom bar assembly. In order for the assembly to work properly, the door opening width must not be smaller than the production door width. If the door opening width is smaller than the production width, do not proceed with the installation. Contact your Rytec representative or Rytec Customer Support Department at 1-800-628-1909.
It is critical that the side columns are mounted level and square to the wall and floor, both vertically and horizontally. A 4-foot level and carpenters square are recommended for this procedure. The use of bar clamps to hold the side columns to the wall during installation is recommended, as these hold the columns securely in place, while allowing slight movement of the columns during the installation of the head assembly.

NOTE: All anchoring hardware and material is the responsibility of the door owner and/or installer.

3. When the side column has been positioned properly, anchor the column to the wall using appropriate anchors. (See ANCHORING METHODS on page 3.) Anchor holes have been provided in the side columns. (See Figure 11.) DO NOT tighten anchors at this time.

NOTE: Use 1/2-inch diameter expansion shell stud-type anchors for concrete walls, or 1/2-inch diameter threaded through bolts for brick walls or other applications where expansion bolts are not applicable.

4. Mount the opposite side column to the wall using the same procedure as outlined for the other side column.
INSTALL HEADER ASSEMBLY

Doors without Hood Assembly

1. Attach header extrusion support brackets to the header extrusion using four (two per side) 3/8-16 x 1-1/4-inch serrated-flange hex screws. (See Figure 12.) Brackets and mounting hardware are shipped in the small parts carton.

![Figure 12](image12.png)

2. Install the header extrusion and support bracket with bracket to the inside of the side columns using four (two per side) 3/8-16 x 1-1/4-inch serrated-flange hex screws and serrated-flange hex nuts. (See Figure 13.)

![Figure 13](image13.png)

3. Check to see that the side columns are plumb and square.
4. Tighten all anchors holding the side columns to the wall.
5. Remove bar clamps, if used to hold side columns to wall.

Doors with Hood Assembly

NOTE: The reducer location is determined at the time the door is ordered and manufactured. DO NOT attempt to change the location of the reducer without contacting your local Rytec representative or the Rytec Customer Support Department at 1-800-628-1909.

1. Determine the drive and non-drive sides of the head/fabric roll assembly. This is important for correct installation of support brackets. When the head/fabric roll assembly is properly installed, the panel/bottom bar should be coming off the back of the drum. (See Figure 14.)

![Figure 14](image14.png)
2. Install support brackets to the side columns—large bracket to the reducer side column extrusion, small bracket to the non-drive side column, using four (two per side) 3/8-16 x 1-1/4-inch serrated-flange hex screws and serrated-flange hex nuts. (See Figure 15.) Brackets and mounting hardware are shipped in the small parts carton.

3. Install the header extrusion to the support brackets using four (two per side) 3/8-16 x 1-1/4-inch serrated-flange hex screws and serrated-flange hex nuts. (See Figure 16.)

4. Check to see that the side columns are plumb and square.

5. Tighten all anchors holding the side columns to the wall.

6. Remove bar clamps, if used to hold side columns to wall.
INSTALL HEAD ASSEMBLY

1. Prior to removing the head/fabric roll assembly from the shipping crate, remove the following hardware from the small parts carton: four 1/2-13 x 1-1/4-inch serrated-flange hex screws and 1/2-13 serrate-flange nuts. This hardware will be used to mount the head/fabric roll assembly to the side columns.

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

**WARNING**

The head/fabric roll assembly must be securely fastened to the forks of the forklift during the installation of the head assembly to the side columns. Failure to fasten the assembly properly can result in personal injury and/or property damage. DO NOT remove the forklift from the head assembly until it has been securely fastened to the side columns and the side columns have been securely fastened to the building wall.

**CAUTION**

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

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

3. Using a forklift, position the head/fabric roll assembly against the side columns. Position the head assembly so that the holes in the side column are centered in the slotted holes in the reducer mounting bracket. (See Figure 17.)

4. Bolt the reducer mounting bracket to the side column using two 1/2-13 x 1-1/4-inch serrated-flange hex screws and serrated-flange hex nuts. (See Figure 17.)

5. Slide the flanged bearing assembly over the fabric roll shaft (opposite reducer). Bolt the flanged bearing mounting bracket to the side column using two 1/2-13 x 1-1/4-inch serrated-flange hex screws and nuts. DO NOT tighten until the fabric roll assembly has been leveled. (See Figure 18.)

**NOTE:** If the fabric roll cannot be leveled by adjusting the flanged bearing, check side column installation.
6. Place a carpenters level on the top of the fabric roll. Level the fabric by moving the flanged bearing assembly up or down as required. Tighten the flanged bearing hardware when fabric roll is level. (See Figure 19.)

7. Remove the fasteners that were used to hold the fabric roll to the forklift, and remove forklift.

**CAUTION**

DO NOT remove the shipping straps from the fabric roll at this time.

**INSTALL CHAIN AND CHAIN KEEPER**

**Chain Installation**

1. Feed chain through holes in chain guide and around pulley, until there is an equal amount of chain on either side. (See Figure 20.)

**WARNING**

Remove excess chain. Chain resting on the floor could become entangled, resulting in personal injury and/or property damage.

**NOTE:** When connecting chain ends, the connecting link must be closed completely to prevent the link from catching in the pulley.
2. With one of the free ends of the chain, form a loop with the other end of the chain, so that the bottom of the loop is approximately 1-1/2 to 2 feet from the floor. Mark the link on the other chain. Carefully open the link at the splice and remove the excess chain. Connect the open link to the other end of the chain. Close the link. (See Figure 21.)

![Figure 21](image1.png)

3. Adjust the chain keeper to approximately 4 to 5 feet from the floor. Tighten the cap screws.

![Figure 22](image2.png)

**Chain Keeper Installation**

1. Loosely assemble chain keeper and clamp bar using two 1/4-20 x 1-1/4-inch hex cap screws.

   *NOTE: Chain keeper must be installed with slot opening angled down.*

2. Install chain keeper and clamp assembly in the side column by rotating the assembly. (See Figure 22.)

3. Adjust the chain keeper to approximately 4 to 5 feet from the floor. Tighten the cap screws.
INSTALL BOTTOM BAR

1. Cut shipping bands holding the fabric to the roll.
2. Before installing the bottom bar assembly into the track, move the latches located on both sides of the bottom bar assembly to the OPEN position. (See Figure 23.)

3. Insert the plastic tabs on the bottom bar into the slots in the side columns. (See Figure 24.)

INSTALL ANCHOR HOLE PLUGS AND CAULKING

Anchor Hole Plug Installation

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.

Caulking

Caulk between the side columns, head extrusion and wall.

INSTALL HOOD

NOTE: These procedures are required only if your door is equipped with an optional hood.

Doors with production width up to 8 feet 3 inches will have 1-piece hoods. Doors with production width greater than 8 feet 3 inches will have 3-piece hoods. The installation procedure is the same for either style hood except where noted.

1. Install the end covers to the head extrusion support brackets using four (two each side) 3/8-16 x 1-1/4-inch serrated-flange hex screws and 3/8-16 serrated-flange nuts. (See Figure 26.)
2. Install the hood center section (one-piece hood) or hood end sections (three-piece hood) in head extrusion. (See Figure 27.) Secure to extrusion and end panels using #12 x 3/4-inch TEK screws.

3. **Three-Piece Hood Only**: Install hood center section and secure to hood end sections using #12 x 3/4-inch TEK screws. (See Figure 28.)

---

**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 they are tight.
- **Head Assembly**: Fabric roll must be level. All mounting hardware tight.
- **Caulking**: See that side columns and head assembly have been caulked where they meet the building wall.
- **Chain Keeper**: Check mounting hardware to see if tight. The chain keeper must hold chain securely.
- **Latches**: When the door is completely closed, the latches must engage and disengage smoothly with holes in side columns.

The door must be operated to perform the following checks. See OPERATION for proper operating procedures.

- **Bottom Bar**: Must travel up and down in side column without binding.
- **Chain**: Joining link completely closed, chain not twisted, does not bind in reducer pulley.
- **Reducer**: Mounting hardware tight. Reducer operates smoothly.

See OPERATION for proper operating, inspection and maintenance procedures.
OPERATION

GENERAL ARRANGEMENT OF DOOR PARTS

Figure 29 shows the location of major components of your Rytec Bantam dock door.

Figure 29

OPEN/CLOSE DOOR

The Bantam dock door is a manually-operated, low maintenance roll-up door that is designed for durability and is installed wherever improved traffic flow, environmental operation, safety and dependability are priority.

To Open the Door

1. Move the latches located on both sides of the bottom bar assembly to the OPEN position. (See Figures 29 and 30.)
2. Pull the chain until the door is opened to desired height. Secure the chain in the chain keeper. (See Figure 30.)

NOTE: If the chain is not secured in the chain keeper, the door will slowly close. (See DRIVE SYSTEM OPERATION on page 14.)

To Close the Door

1. Remove the chain from the chain keeper and pull the chain in the reverse direction as opening.

NOTE: To maintain proper door tension and insure smooth door operation, remove slack in door panel as described in step 2. (See Figure 31.)

Figure 30

Figure 31
2. When the bottom seal makes contact with the floor, remove any slack in the door panel by pulling the chain up slightly and secure the chain in the chain keeper. If desired, close latches on both sides of the bottom bar to lock door. (See Figure 32.)

3. If it is desired to prevent the door from being opened, the chain can be secured to the chain keeper with a lock.

**DRIVE SYSTEM OPERATION**

The drive system consists of the chain, reducer assembly, and governor. The reducer assembly reduces the amount of force required to open the door by the use of internal gearing. The drive system also includes a governor that prevents the door from closing too quickly if the chain is not secured in the chain keeper.

As the chain is pulled to open the door, the chain pulley connected to the reducer turns the reducer input shaft. The reducer then in turn drives the two output shafts. One is connected to the fabric roll, opening the door. The governor is mounted on the other output shaft.

The governor rotates freely with the reducer output shaft when the door is being opened. When door upward motion stops, a pawl engages the teeth on the exterior of the governor, preventing the governor housing from rotating. (See Figure 33.)

If the chain is not secured in the chain keeper, the force of gravity will begin to close the door. As the door closes, the resistance within the governor slows the fabric roll drum. This resistance is easily overcome by pulling the chain when manually closing the door.
BOTTOM BAR

Breakaway Feature—Impact

⚠️ CAUTION ⚠️

The door latches must be in the OPEN position in order for the breakaway feature to operate.

The bottom bar assembly has plastic tabs mounted at each end, which are strong enough to keep the assembly within the side columns during normal operation. When the bottom bar is struck by a vehicle or load, the tabs are flexible enough to allow the bottom bar to separate from either or both side columns. (See Figure 34.)

Figure 34

Breakaway Feature—Repair
(Return to Operating Position)

NOTE: If necessary, the door can be raised or lowered to a comfortable height to make repair convenient.

1. Secure the chain in the chain keeper.
2. Position the breakaway tabs on one end of the bottom bar assembly in the side column channel. Lift the other side of the bottom bar and position the breakaway tabs in the side column channel. (See Figure 35.)

Figure 35

3. Check to make sure that the fabric is inside the channels. (See Figure 36.)

Figure 36

4. Open or close door and secure the chain in the chain keeper.
PLANNED MAINTENANCE

RECOMMENDED SCHEDULE

<table>
<thead>
<tr>
<th></th>
<th>WEEKLY</th>
<th>BI-ANNUALLY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Damage Inspection</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Check Door Operation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mounting Hardware Inspection</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chain</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fabric Inspection</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weather Seal Inspection</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bottom Bar Inspection</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lubrication</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Governor Inspection</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

WEEKLY INSPECTION

Visual Damage Inspection
Inspect the major door components to see that they are in good working order. (See Figure 37.)

Check Door Operation
Run the door through four or five complete cycles to see that the door is operating smoothly and efficiently and that binding or unusual noises do not exist. DO NOT continue to operate the door if it is not operating smoothly, as this could complicate the damage.
Head Assembly — Check for damage that could prevent proper opening or closing of the door.

Vision Panels/Window(s) (If Equipped) — Check to insure panel/window(s) are clean and allow clear vision. Clean or replace as required.

Check to see that the panels are tracking properly in the side columns.

Side Columns — Check for damage that may prevent proper operation of the door.

Wind Ribs — Panels must be tightly enclosed in ribs.

Door panel hardware in place and tight.

Weather Seal — Check for tears or damage. Replace as necessary.

Breakaway tab hardware in place and tight.

Drive pins in place and tight.
BI-ANNUAL INSPECTION

NOTE: On doors equipped with hoods, the hood may have to be removed to gain clear access to head components.

Mounting Hardware Inspection
1. Check all side column mounting hardware to insure that all anchors are tight.
2. Check all head assembly mounting hardware to insure that all nuts, bolts and set screws are tight. (See Figures 38 and 39.)

Chain
Check chain for worn or damaged links. Replace chain as necessary.

Fabric Inspection
1. Check fabric panels for tears. Replace as necessary.
2. Check wind ribs for bends and/or damage. If bends are minor, wind ribs can be straightened, otherwise replace ribs as necessary.
3. Check all panels to insure that they are tightly enclosed in the wind ribs and pins are in place in the wind ribs. (See Figure 40.)
**Weather Seal Inspection**

**HEADER ASSEMBLY**

Inspect header weather seal for wear. (See Figure 42.) Replace if necessary. (See REPLACEMENT PROCEDURES—WEATHER SEAL on page 22.)

**SIDE COLUMNS**

Inspect side column weather seal for tears or damage. (See Figure 43.) Replace if necessary. (See REPLACEMENT PROCEDURES—WEATHER SEAL on page 23.)

---

4. Check vision panel or windows (if equipped) to insure that it allows clear vision through the panel. Clean or replace the panel as required. (See Figure 41.)

5. **Vinyl Panels Only:** Check lower panel to insure that it is fastened to the plastic tab at each end of the bottom bar. Tighten or replace hardware as necessary. If fabric is worn and cannot be rebolted to the plastic tab, replace panel.

6. Run the door through two or three cycles. Check to see that panels are tracking properly in the side columns. If panels do not track properly, check to make sure that the fabric roll is level.
Bottom Bar Inspection

1. Inspect hardware securing the bottom bar to the door panel. It is critical that all securing hardware be kept tight to prevent elongation of the holes and possible tearing of the fabric. (See Figure 44.)

2. Check hardware used to attach breakaway tabs to the bottom bar assembly. Tighten if necessary. (See Figure 44.)

3. Check the weather seal to see that it is tightly secured to the bottom bar assembly. Tighten if necessary.

4. Inspect the weather seal for abrasion or tearing. Replace if necessary.

Lubrication

**Flanged Bearing**: The fabric roll is supported by a flanged bearing located on the roll shaft end opposite the reducer assembly. The flanged bearing is equipped with a grease fitting. Recommended lubrication is a lithium-base grease conforming to NLGI1, Grade 2 standards. It should be a medium viscosity, low torque, with an operating temperature range of $-30^\circ\text{F}$ to $+200^\circ\text{F}$. (See Figure 45.)

**Reducer Assembly**: The reducer assembly should be checked for proper oil level. The level can be checked at the plug located on the front of the reducer. (See Figure 46.)

If the oil level is below check plug level, remove filler plug and add oil meeting American Gear Manufacturers Association (AGMA) Compound No. 8. Add oil until it starts draining from the check level hole.
Governor Inspection

Check governor pawl for free movement.  
(See Figure 47.)
REPLACEMENT PROCEDURES—WEATHER SEAL

WEATHER SEAL

Header Assembly

NOTE: On doors equipped with hoods, the hood will have to be removed to gain access to weather seal.

1. From either side, remove two serrated flange hex screws and nuts securing header extrusion and support bracket to the side column.

2. Lift the header extrusion slightly to gain clearance, and remove damaged weather seal by sliding it out of the extrusion. (See Figure 48.)

3. Insert new weather seal in channel. (See Figures 49 and 50 for positions.)

4. Lower header extrusion and secure to side column with two serrated flange hex screws and nuts.
Side Columns

1. Drill out rivets at the top and bottom of the side column. (See Figure 51.)

![Figure 51]

2. Slide damaged weather seal out of the channel and replace with a new seal.

3. Secure seal with two 1/8-in. diameter rivets.
PARTS LIST

PARTS ORDERING INFORMATION

How To Order Parts

1. Find the serial number of your door. This number is located on a serial number plate located on the right side column. (See Figure 52.)

2. Identify the parts needed. See the following pages of this manual for the part numbers and descriptions.

3. Contact your local Rytec representative or the Rytec Customer Support Department at 1-800-628-1909 (voice) or (262) 677-2058 (fax). To ensure that you receive the correct parts, include your door serial number when ordering!

Return of Repair Parts

Rytec will not accept the return of any parts unless they are accompanied by a Return Goods Authorization (RGA) form. Before returning any parts, always contact the Rytec Customer Support Department to obtain an RGA form.

Additional Information

The actual parts used on your door may be different than shown in this manual, due to special engineering or product improvements.

If a repair part has been improved in design and bears a revised part number, the improved part will be supplied in place of the part ordered.
# PARTS LIST

## DOOR FRAME/HOOD ASSEMBLY

### A/R = As Required

* Items are produced based on manufactured height and/or width of door.

### ALWAYS INCLUDE SERIAL NUMBER WHEN ORDERING PARTS.

To be sure that you receive the correct parts, always include your door serial number when ordering. The actual parts used on your door may be different than shown in this manual due to special engineering or product improvements.

<table>
<thead>
<tr>
<th>ITEM</th>
<th>QTY.</th>
<th>PART #</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>0-802-022*</td>
<td>Hood Center Section (One Piece Hood)</td>
</tr>
<tr>
<td>2</td>
<td>A/R</td>
<td>0-552-050</td>
<td>Screw, #12 x 3/4-in. TEK</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>0-703-024</td>
<td>Support Bracket (Optional Hood), Non-Drive Side</td>
</tr>
<tr>
<td>4</td>
<td>7</td>
<td>0-551-254</td>
<td>Screw, 3/8-16 x 3/4-in. Serrated Flange</td>
</tr>
<tr>
<td>5</td>
<td>1</td>
<td>0-802-019</td>
<td>Hood End Cover, R.H.</td>
</tr>
<tr>
<td>6</td>
<td>19</td>
<td>0-553-229</td>
<td>Nut, 3/8-16 Serrated Flange</td>
</tr>
<tr>
<td>7</td>
<td>1</td>
<td>0-703-035*</td>
<td>Extrusion, Cover (Optional Hood)</td>
</tr>
<tr>
<td>8</td>
<td>2</td>
<td>0-802-023*</td>
<td>Hood End Cover (Three-Piece Hood)</td>
</tr>
<tr>
<td>9</td>
<td>1</td>
<td>0-802-024</td>
<td>Hood Center Section (Three-Piece Hood)</td>
</tr>
<tr>
<td>10</td>
<td>8</td>
<td>0-550-261</td>
<td>Screw, 3/8-16 x 1-1/4-in. Serrated Flange</td>
</tr>
<tr>
<td>11</td>
<td>1</td>
<td>0-802-020</td>
<td>Hood End Cover, L.H.</td>
</tr>
<tr>
<td>12</td>
<td>1</td>
<td>0-703-023</td>
<td>Support Bracket (Optional Hood), Drive Side</td>
</tr>
<tr>
<td>13</td>
<td>1</td>
<td>0-703-040*</td>
<td>Extrusion, Header</td>
</tr>
<tr>
<td>14</td>
<td>2</td>
<td>0-703-026</td>
<td>Support Bracket (No Hood)</td>
</tr>
<tr>
<td>15</td>
<td>1</td>
<td>0-009-177*</td>
<td>Weather Seal, Brush 3-in.</td>
</tr>
<tr>
<td>16</td>
<td>1</td>
<td>0-899-451*</td>
<td>Assembly, Side Column, R.H. (Includes Items 17, 18, 19, 20, 22 and 23)</td>
</tr>
<tr>
<td>17</td>
<td>1</td>
<td>0-007-178*</td>
<td>Seal, Weather Seal</td>
</tr>
<tr>
<td>18</td>
<td>6</td>
<td>0-556-323</td>
<td>Rivet, 1/8-in. Diameter</td>
</tr>
<tr>
<td>19</td>
<td>A/R</td>
<td>0-004-006*</td>
<td>Silicone Adhesive, Dow No. 732</td>
</tr>
<tr>
<td>20</td>
<td>1</td>
<td>0-705-011*</td>
<td>Wear Strip, Rear</td>
</tr>
<tr>
<td>21</td>
<td>1</td>
<td>0-016-333</td>
<td>Serial Number Plate</td>
</tr>
<tr>
<td>22</td>
<td>1</td>
<td>0-705-011*</td>
<td>Wear Strip, Front</td>
</tr>
<tr>
<td>23</td>
<td>1</td>
<td>0-803-064*</td>
<td>Side Column, R.H.</td>
</tr>
<tr>
<td>24</td>
<td>2</td>
<td>0-704-005</td>
<td>Dome Plug, 1-1/4-in. Diameter</td>
</tr>
<tr>
<td>25</td>
<td>1</td>
<td>0-899-452*</td>
<td>Assembly, Side Column, L.H. (Includes Items 17, 18, 19, 20, 22 and 30)</td>
</tr>
<tr>
<td>26</td>
<td>1</td>
<td>0-803-380</td>
<td>Clamp Bar</td>
</tr>
<tr>
<td>27</td>
<td>2</td>
<td>0-550-003</td>
<td>Screw, 1/4-20 x 1-1/4-in. Hex Cap</td>
</tr>
<tr>
<td>28</td>
<td>1</td>
<td>0-804-377</td>
<td>Chain Keeper</td>
</tr>
<tr>
<td>29</td>
<td>1</td>
<td>0-704-006</td>
<td>Dome Plug, 9/16-in. Diameter</td>
</tr>
<tr>
<td>30</td>
<td>1</td>
<td>0-803-065*</td>
<td>Side Column, L.H.</td>
</tr>
</tbody>
</table>
**PARTS LIST**

**DOOR AND REDUCER**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>QTY.</th>
<th>PART #</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>5</td>
<td>0-550-192</td>
<td>Set Screw, 1/4-20 UNC x 3/8-in. Large Knurled Point</td>
</tr>
<tr>
<td>2</td>
<td>A/R</td>
<td>0-556-167</td>
<td>Rivet, 3/16-in. Diameter</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>0-702-010*</td>
<td>Strap, Panel Mounting Clamp</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
<td>0-553-100</td>
<td>Nut, 1/2-13 Serrated-Flange</td>
</tr>
<tr>
<td>5</td>
<td>2</td>
<td>0-555-119</td>
<td>Lockwasher, 7/16-in. Split</td>
</tr>
<tr>
<td>6</td>
<td>2</td>
<td>0-550-011</td>
<td>Screw, 7/16-14 x 1.00-in. Hex Cap Screw</td>
</tr>
<tr>
<td>7</td>
<td>1</td>
<td>0-704-010</td>
<td>Bearing, 1.25-in. Diameter</td>
</tr>
<tr>
<td>8</td>
<td>4</td>
<td>0-550-041</td>
<td>Screw, 1/2-13 x 1.25-in. Serrated Flange</td>
</tr>
<tr>
<td>9</td>
<td>1</td>
<td>0-799-013</td>
<td>Weldment, Bearing Bracket</td>
</tr>
<tr>
<td>10</td>
<td>1</td>
<td>0-703-019*</td>
<td>Weldment, Drum</td>
</tr>
<tr>
<td>11</td>
<td>4</td>
<td>0-552-324</td>
<td>Pin, 1/8 x 5/8-in. Roll</td>
</tr>
<tr>
<td>12</td>
<td>A/R</td>
<td>0-207-129</td>
<td>Window, 17 x 17-in.</td>
</tr>
<tr>
<td>13</td>
<td>A/R</td>
<td>0-703-041*</td>
<td>Wind Rib</td>
</tr>
<tr>
<td>14</td>
<td>1</td>
<td>Consult Factory*</td>
<td>Door Panel Assembly</td>
</tr>
<tr>
<td>15</td>
<td>3</td>
<td>0-804-005</td>
<td>Key, 3/16 x 3/16 in. x 1.50-in.</td>
</tr>
<tr>
<td>16</td>
<td>2</td>
<td>0-804-008</td>
<td>Key, 1/4 x 1/4 in. x 1.00-in.</td>
</tr>
<tr>
<td>17</td>
<td>1</td>
<td>0-804-379</td>
<td>Hand Chain Wheel</td>
</tr>
<tr>
<td>18</td>
<td>1</td>
<td>0-804-378</td>
<td>Guide, Hand Chain</td>
</tr>
<tr>
<td>19</td>
<td>1</td>
<td>0-804-155</td>
<td>Retaining Ring, 1-in. O.D.</td>
</tr>
<tr>
<td>20</td>
<td>1</td>
<td>0-805-009</td>
<td>Wear Block, Hand Chain</td>
</tr>
<tr>
<td>21</td>
<td>2</td>
<td>0-551-325</td>
<td>Screw, #10 x 3/4-in. TEK</td>
</tr>
<tr>
<td>22</td>
<td>A/R</td>
<td>0-804-376</td>
<td>Chain</td>
</tr>
<tr>
<td>23</td>
<td>4</td>
<td>0-550-301</td>
<td>Screw, 5/16-18 UNC x 3/4-in. Serrated-Flange Cap</td>
</tr>
<tr>
<td>24</td>
<td>1</td>
<td>0-899-088</td>
<td>Weldment, Reducer Base (L.H.)</td>
</tr>
<tr>
<td>25</td>
<td>1</td>
<td>0-899-070</td>
<td>Weldment, Reducer Base (R.H.)</td>
</tr>
<tr>
<td>26</td>
<td>1</td>
<td>0-803-059</td>
<td>Shaft, Chain Wheel</td>
</tr>
<tr>
<td>27</td>
<td>1</td>
<td>0-803-060</td>
<td>Shaft, Speed Governor</td>
</tr>
<tr>
<td>28</td>
<td>1</td>
<td>0-803-093</td>
<td>Pawl, Speed Governor</td>
</tr>
<tr>
<td>29</td>
<td>2</td>
<td>0-804-085</td>
<td>Retaining Ring, 1-1/4-in. O.D.</td>
</tr>
<tr>
<td>30</td>
<td>1</td>
<td>0-804-093</td>
<td>Speed Governor, MD600</td>
</tr>
<tr>
<td>31</td>
<td>1</td>
<td>0-804-094</td>
<td>Reducer, Grove MD600</td>
</tr>
</tbody>
</table>

A/R = As Required  
* Items are produced based on manufactured height and/or width of door.

**ALWAYS INCLUDE SERIAL NUMBER WHEN ORDERING PARTS.**

To be sure that you receive the correct parts, always include your door serial number when ordering. The actual parts used on your door may be different than shown in this manual due to special engineering or product improvements.
PARTS LIST

BOTTOM BAR ASSEMBLY
<table>
<thead>
<tr>
<th>ITEM</th>
<th>QTY.</th>
<th>PART #</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>A/R 0-553-103</td>
<td>Nut, 1/2-20 UNC Serrated- Flange Hex</td>
</tr>
<tr>
<td>2</td>
<td>A/R</td>
<td>0-553-229</td>
<td>Nut, 3/8-16 UNC Serrated- Flange Hex</td>
</tr>
<tr>
<td>3</td>
<td>8</td>
<td>0-803-057*</td>
<td>Extrusion, Bottom Bar—Rear</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>0-717-004*</td>
<td>Wood, 1.5 in. x 3.50 in. SPF</td>
</tr>
<tr>
<td>5</td>
<td>2</td>
<td>0-803-058</td>
<td>Latch, Door Lock</td>
</tr>
<tr>
<td>6</td>
<td>2</td>
<td>0-805-018</td>
<td>End Block, Bottom Bar Lock</td>
</tr>
<tr>
<td>7</td>
<td>2</td>
<td>0-805-333</td>
<td>End Block</td>
</tr>
<tr>
<td>8</td>
<td>2</td>
<td>0-021-531</td>
<td>Screw, 1/4-20 x 3/8-in. Flat-Head Phillips</td>
</tr>
<tr>
<td>9</td>
<td>4</td>
<td>0-805-334</td>
<td>Tab, Breakaway</td>
</tr>
<tr>
<td>10</td>
<td>A/R</td>
<td>0-550-016</td>
<td>Screw, 1/4-20 UNC x 3/4-in. Serrated Flange</td>
</tr>
<tr>
<td>11</td>
<td>8</td>
<td>0-550-318</td>
<td>Screw, 3/8-16 UNC x 2.25-in. Rib-Neck Carriage</td>
</tr>
<tr>
<td>12</td>
<td>1</td>
<td>0-803-057*</td>
<td>Extrusion, Bottom Bar—Front</td>
</tr>
<tr>
<td>13</td>
<td>A/R</td>
<td>0-550-289</td>
<td>Screw, 10-12 x 1.00-in. Truss-Head</td>
</tr>
<tr>
<td>14</td>
<td>1</td>
<td>0-805-019*</td>
<td>Weather Seal, Bottom Bar</td>
</tr>
<tr>
<td>15</td>
<td>A/R</td>
<td>0-021-021</td>
<td>Screw, 6 x 2 Self-Tapping Phillips Pan Head Type AB</td>
</tr>
</tbody>
</table>

A/R = As Required

* Items are produced based on manufactured height and/or width of door.

ALWAYS INCLUDE SERIAL NUMBER WHEN ORDERING PARTS.

To be sure that you receive the correct parts, always include your door serial number when ordering. The actual parts used on your door may be different than shown in this manual due to special engineering or product improvements.