

R Y T E C

Pharma-Slide[®]

Owner's Manual



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WARRANTY

The Pharma-Slide High-Speed Door purchased by you (Buyer) should not be installed or operated before you read all associated product manuals explaining the proper method of installing, operating, and maintaining the equipment.

Rytec Corporation (Seller) warrants that the Pharma-Slide High-Speed Door (Product) sold to the Buyer will be free of defects in materials and workmanship under normal use for a period of twelve (12) months from the date of shipment of the Product from the Seller's plant. Electrical components are warranted for a period of ninety (90) days from the date of shipment. If within the applicable period any Products shall be proved to the Seller's satisfaction to be defective, such Products shall be repaired or replaced at the Seller's option. Such repair or replacement shall be the Seller's sole obligation and the Buyer's exclusive remedy hereunder and shall be conditioned upon the Seller receiving written notice of any alleged defect within ten (10) days after its discovery and, at the Seller's option, return of such Product to the Seller, f.o.b. its factory. THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER REPRESENTATION AND WARRANTIES, EXPRESS OR IMPLIED, AND THE 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 will be replaced under warranty provided installation has been carried out in accordance with all Rytec procedures. This warranty is limited to providing a replacement part only. This warranty does not cover freight, special charges, or any costs associated with the installation of the replacement part.

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

The Seller's liability with respect to the Product sold to the Buyer shall be limited to the warranty provided herein. THE 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 THE SELLER, OR ANY UNDERTAKINGS, ACTS, OR OMISSIONS RELATING THERETO. Without limiting the generality of the foregoing, the Seller specifically disclaims any liability for property or personal injury damages, penalties, special or punitive damages, damages for lost profits or revenues, services, downtime, shutdown, or slowdown costs, or for any other types of economic loss, and for claims of the Buyer's customers or any third party for any such damages. THE SELLER SHALL NOT BE LIABLE FOR AND DISCLAIMS ALL CONSEQUENTIAL, INCIDENTAL, AND CONTINGENT DAMAGES WHATSOEVER.

This warranty shall be void in its entirety if the 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 the 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.

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INTRODUCTION

The information contained in this manual will allow you to operate and maintain your Rytec Pharma-Slide® Door in a manner which 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 in 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 Customer Support Department at 1-800-628-1909. Always refer to the serial number of the door when calling the representative or Customer Support.

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)

The **DOOR SERIAL NUMBER** is located on the left side of the head assembly, behind the hood.

IMPORTANT: When installing multiple doors of the same model but in different sizes, verify serial number in the head assembly.

HOW TO USE MANUAL

Throughout this manual, the following key words are used to alert the reader to 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 **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.

GENERAL ARRANGEMENT OF DOOR PARTS

Figure 1 shows the location of the major components of the door and the general placement of the associated control sub-assemblies for a typical installation.

This illustration is provided to you for general information purposes only. It should not be relied upon solely for the operation and maintenance of your door and its sub-assemblies.

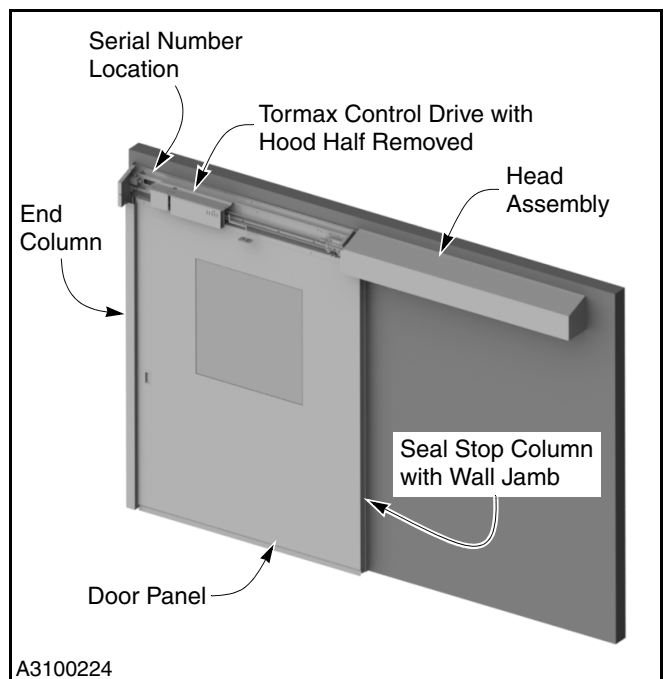


Figure 1

NOTE: Figure 1 shows the front of the door. Left and right are determined when viewing the front of the door.

OPERATION

AUTOMATIC DOOR SYSTEM

The Pharma-Slide door is equipped with an automatic Tormax® drive system, designed exclusively to operate Rytec high-performance doors. It provides connections for safety beams, door limit settings, and fault indication. For more information, see the Tormax Operating Instruction manual.

PLANNED MAINTENANCE—PHOTO EYES

PHOTO EYES

Your door is equipped with four photo eyes mounted on the front of the door. The purpose of these photo eyes is to hold the door open or, if the door is closing, reverse the door to the open position if a vehicle, person, or any object is in the path of the photo eye beam.

The photo eye is not active when the door is closed. After the obstruction breaking the photo eye beam is removed:

- The door will remain open if it was originally opened by a non-automatic activator until it is closed by a non-automatic activator.
- The door will close automatically if it was originally opened with an automatic activator.

NOTE: The photo eyes are not intended to be used as a door activator and will not open the door when it is closed.

This safety system consists of two pairs of non-adjustable emitter and receiver modules. There are no alignment, gain, or sensitivity settings.

NOTE: When photo eyes are installed, they should be installed opposite of each other to avoid any interference. See Figure 2 for clarification.

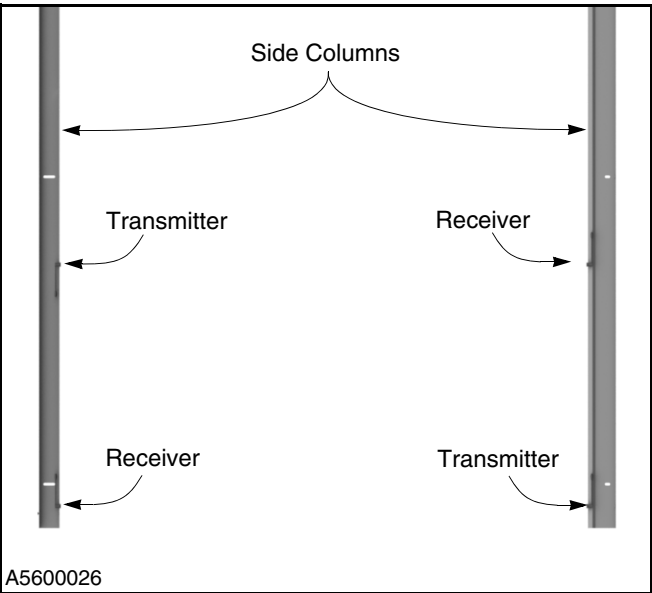


Figure 2

MOVING THE DOOR MANUALLY



Forcing the door open may cause personal injury or equipment failure.

There are two ways of opening manually:

1. Turn off or disconnect power to the Tormax operator.
2. Switch to operating mode P and the door panel(s) can be moved freely. To put the door back into operation again, select the previous operating mode.

NOTE: Reference the Tormax manual for manual operation and software reset.

PLANNED MAINTENANCE

RECOMMENDED SCHEDULE

The maintenance interval is determined by how frequently the system is used. However, checking and maintenance must be performed at least once a year by an authorized technician.

NOTE: Spare parts must comply with the technical requirements of the manufacturer. Use genuine spare parts exclusively.

The owner should maintain and provide a maintenance log for the technician. Inspection results should be entered in the log with the authorized technician's signature and date.

	Daily	Quarterly
Damage Inspection	X	
Door Operation	X	
Photo Eye Inspection	X	
Mounting Hardware Inspection		X
Door Limit Inspection		X
Activator Inspection		X
Seal Inspection		X
Control Panel Inspection		X
Electrical Connection Inspection		X
Wall Anchor Inspection		X

DAILY INSPECTION

Damage Inspection

Visually inspect the door for damaged components.
Examples:

Head Assembly: Inspect for dents or damage that may prevent the door from opening or closing properly.

Door Panel: Inspect for dents, holes, and worn areas. If equipped with window(s), inspect them for damage or dirt that may impair vision — clean or replace as required.

End Column and Seal Stop: Inspect for damage and wear that may prevent the door from holding a proper seal.

Drive Belt: Inspect for damage and wear that may prevent the door from operating properly.

Photo Eyes: Inspect the lens of each photo eye for damage or dirt that may prevent the photo eyes from working properly — clean or replace as required.

Door Operation

Run the door through four or five complete cycles to ensure 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 running properly, as this could cause additional damage.



DO NOT stand in the way of the door panel when performing the following inspection.

Photo Eye Inspection

NOTE: Four photo eyes have been provided with the door. These photo eyes act as a safety device to prevent the door from closing if an object is within the photo eye beam. The safety photo eyes are not meant to be used as door activators.

1. Activate the door to open.

NOTE: The door opens by a device such as a sensor, push button panel, or card reader.

2. Place an object in front of the photo eye in a position where it will break the photo eye beam. The photo eye will recognize a person or object while the door is open and the door will remain open. As the door is closing, a person or object passes through the photo eye beam and the door immediately reopens.



Personnel or objects being used for this inspection should not be in the path of the door panel when this check is made. If a photo eye is not working properly, the door panel will close, striking personnel or objects in its path. DO NOT use the door if the photo eyes do not operate properly.

3. If the photo eye does not operate properly:
 - a. The photo eye transmitter or receiver may be dirty. Clean as required using window cleaner and a clean, soft cloth.
 - b. Photo eyes are wired incorrectly. (See Tormax installation manual for wiring diagram.)
 - c. Terminal block “A.” Inspect terminal block for being faulty.
 - d. Faulty wiring. Shut down door assembly and inspect wires for tears and chafing.

QUARTERLY INSPECTION

Mounting Hardware Inspection

Check all mounting hardware to ensure all nuts, bolts, and set screws are tight. Example: motor mounting hardware, anchor or through wall bolts, end column, and seal stop column, etc. (See Figure 2.)

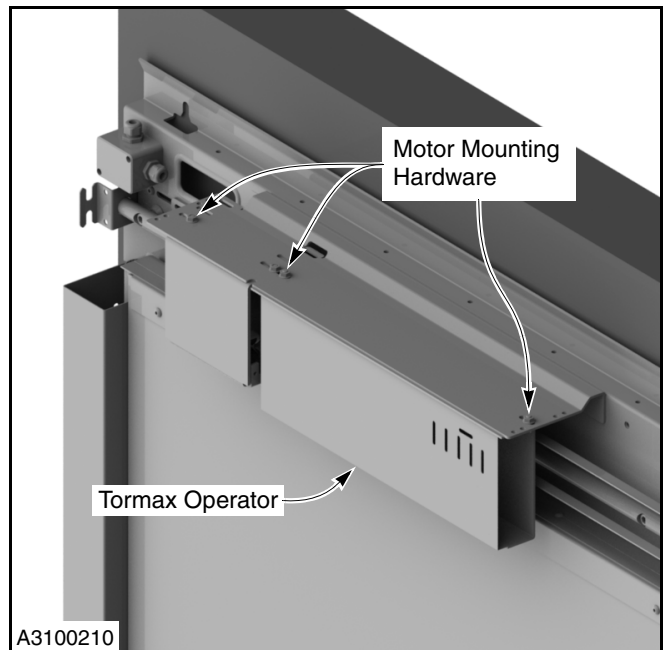


Figure 3

PLANNED MAINTENANCE—QUARTERLY INSPECTION

Door Limit Inspection

The most important element for the system operator is the Tormax control panel. Door limits are set at a factory default value. When the system is operational, the panel may be adjusted for individual requirements. (See Tormax manual for limit inspection.)

NOTE: A company logbook should be maintained, where individual limit settings are stored for future reference.

Some functions may be inhibited or limited due to specific door adjustments performed by the authorized technician.

Activator Inspection

1. Inspect all warning/safety labels. All warning labels should be intact and clearly readable. Replace labels as needed.
2. Operate the door five or six complete cycles with each activator that has been installed on the door. Check the control panel for proper operation. If adjustment or repair is required, see the Tormax manual.

Typical activators may include floor loops, pull cords, push buttons, motion detectors, radio controls, or photo eyes. Opening is controlled by the activator, and closing may be controlled by the activator or a timer in the control panel.

Seal Inspection

- a. Head Assembly
- b. Seal Stop Column
- c. End Column
- d. Floor

Inspect seals for wear or damage. Replace if necessary. (See Figure 4.)

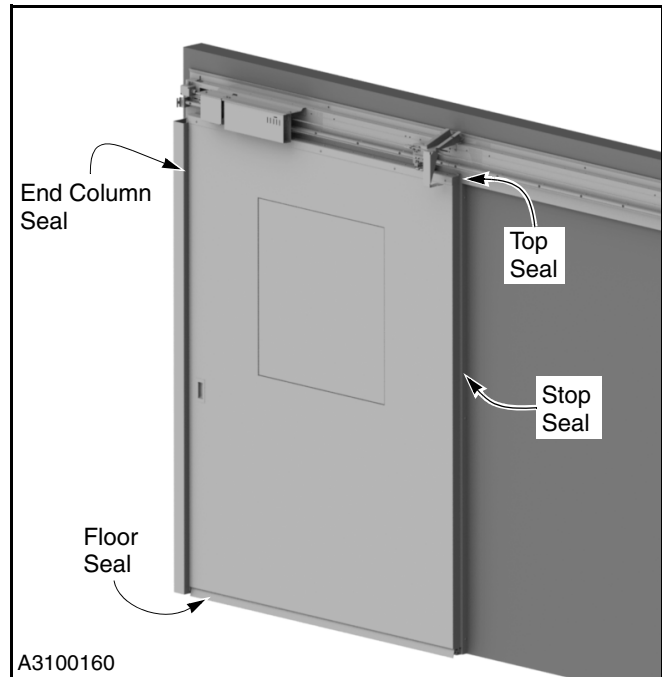


Figure 4

Control Panel Inspection

The most important element for the Tormax operator is the Tormax control panel. The Tormax operator of an automatic door must periodically check the functioning of the automatic door and the safety devices.

Electrical Connection Inspection



The power must be turned OFF or disconnected, and properly locked and tagged before performing the following procedure.

1. Inspect electrical connections to the Tormax operator and encoder assemblies.
2. Inspect connections of wires in the side columns.
3. Inspect control panel wiring.

Wall Anchor Inspection

1. Turn off power to door.



The disconnect must be in the OFF position and properly locked and tagged before performing the following procedure.

2. Gain access to wall anchors.

3. Inspect for loose or worn wall anchor(s).
4. Tighten, repair, or replace wall anchor(s) as needed.

NOTE: Remove door from service if any repairs are needed. All repairs must be done in accordance with building codes.

5. Restore power to the door and return to service.

ADJUSTMENTS

DOOR PANEL

NOTE: The trolleys are shipped with the anti-skip/counter roller nut tight. (See Figure 7.) This prevents the door from sliding back and forth during transport. Prior to adjustment, loosen this nut and adjust the distance between the roller and the bottom of the track to $\frac{1}{16}$ in.



Electrical shock may occur. Prior to adjusting the door panel, disconnect the power to the Tormax operator.

1. Turn off or disconnect the power to the Tormax operator.
2. Adjust the door stop to the fully open position. (See Figure 5.)

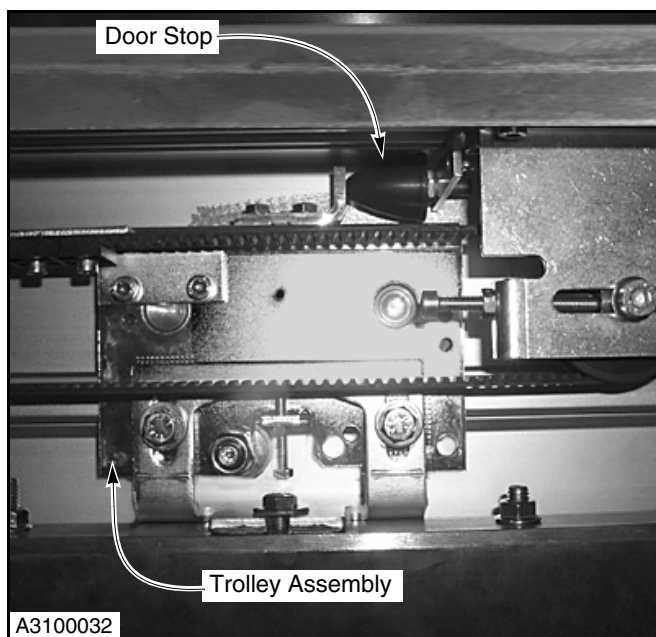


Figure 5

3. Verify that the door panel is level. Slide the door panel to the open position and place a level on top. (See Figure 6.)



Figure 6

4. If an adjustment is necessary:
 - a. Loosen cap screws to the door hanger bracket. (See Figure 7.)

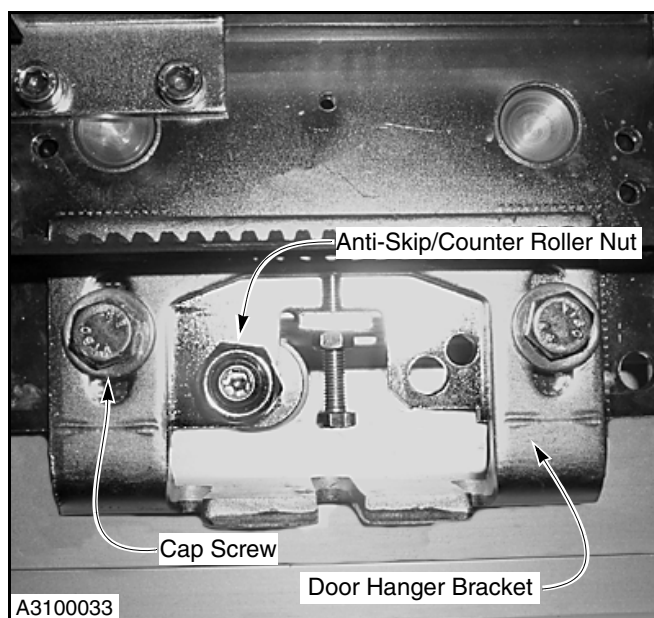


Figure 7

ADJUSTMENTS—DOOR SEAL

- b. Loosen the jam nut and thread the nut away from the hanger bracket. (See Figure 8.)
- c. Turn adjusting screws until the door is level. (See Figure 8.)

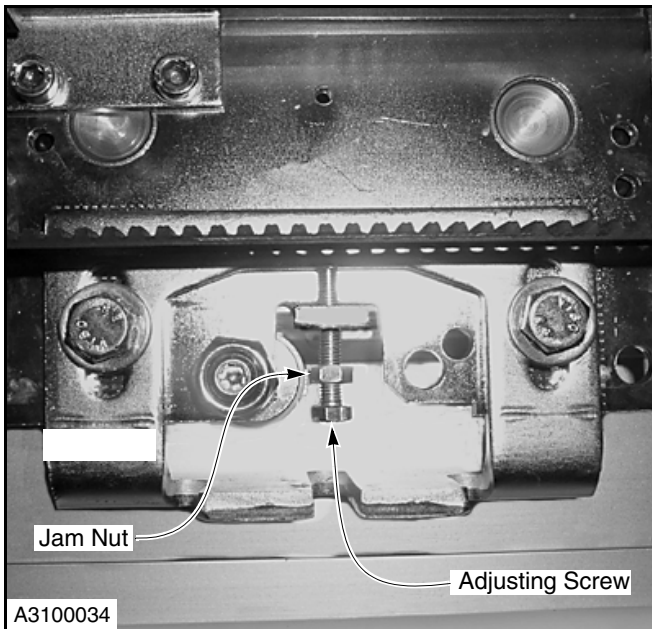


Figure 8

NOTE: Do not adjust the door panel too low. This will cause too much friction between the door guide and track. Excessive friction may cause premature wear of the Tormax operator.

The adjustments will be done to either the left trolley, the right trolley, or both.

5. When the door panel is level, tighten the jam nut and cap screws.

CAUTION

Double-check that the power is turned off to the Tormax operator prior to checking the door bottom.

6. Check the position of the bottom edge of the door panel. The floor seal should make contact with the floor. It will be necessary for you to place your fingers between the seal and the floor to verify the position of the door. Do not judge the position by how the seal cover hangs from the door. (See Figure 9.)

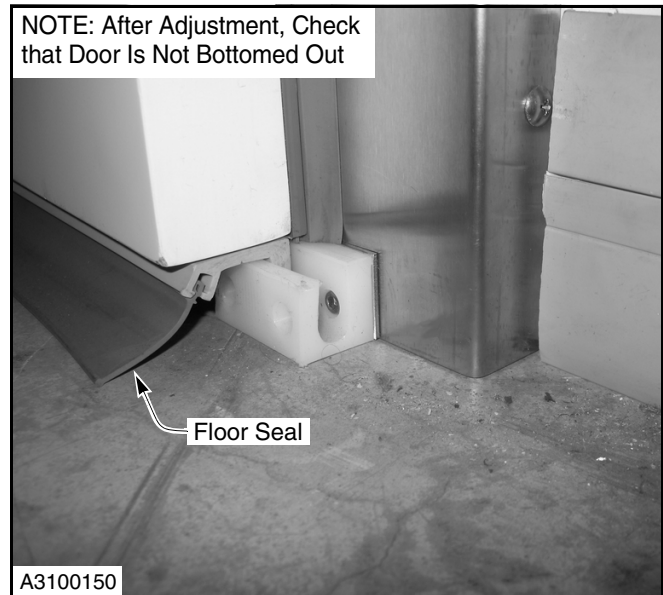


Figure 9

7. Restore power to the Tormax operator.

DOOR SEAL

The following door seal adjustment is to be performed for the initial door start-up and maintenance follow-ups.

CAUTION

Prior to adjusting the door panel, disconnect the power to the Tormax operator.

1. The seal-to-door clearance is adjusted fore and aft only.
 - a. Loosen the cap screw on both trolleys. (See Figure 10.)

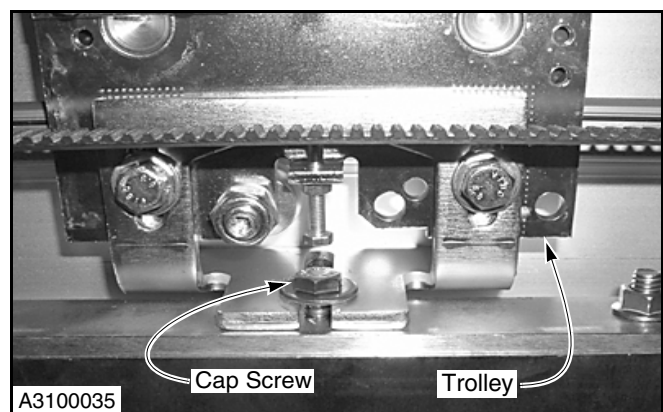


Figure 10

- b. Adjust the door as required and tighten hardware.
2. Restore power to the Tormax operator.

SEAL STOP

The seal stop consists of two pieces: the wall jamb and the seal stop column. If there is a gap between the seal stop column and door panel seal, take note of how much you should adjust the seal stop prior to removing the door. The door panel seal should be snug against the seal stop column as shown in Figure 11.

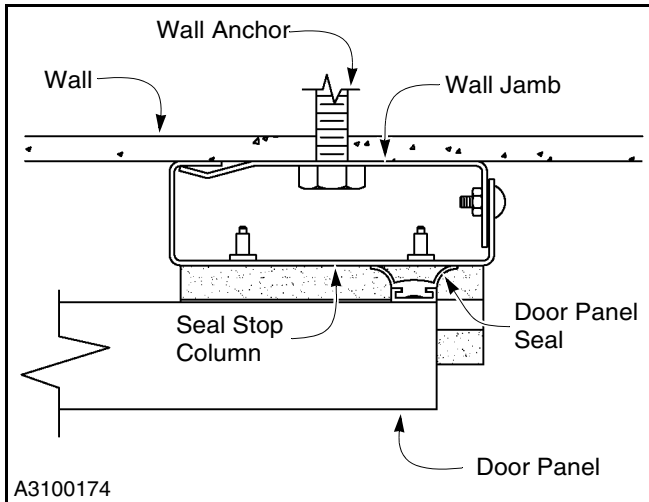


Figure 11

1. Turn off or disconnect power to the Tormax operator.

CAUTION

The door is heavy, and two people will be required to remove the panel.

To avoid damaging the panel assembly, lay the panel flat on a foam cushion, or similar material, for storage. Be extremely careful not to damage or crush the perimeter seals.

2. Loosen the door cap screw and remove the door. (See Figure 12.)

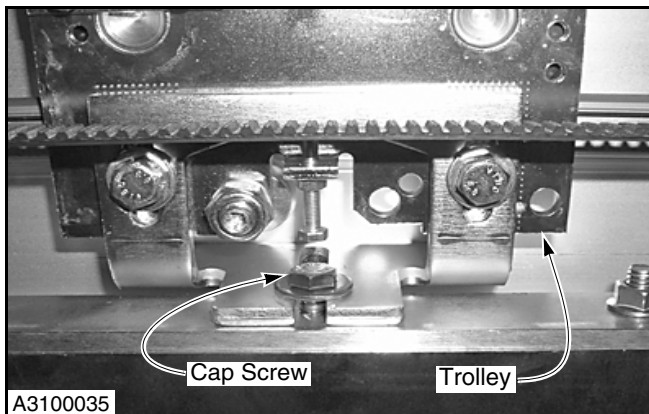


Figure 12

3. Loosen hardware and remove the door guide and the seal stop column. (See Figure 13.)

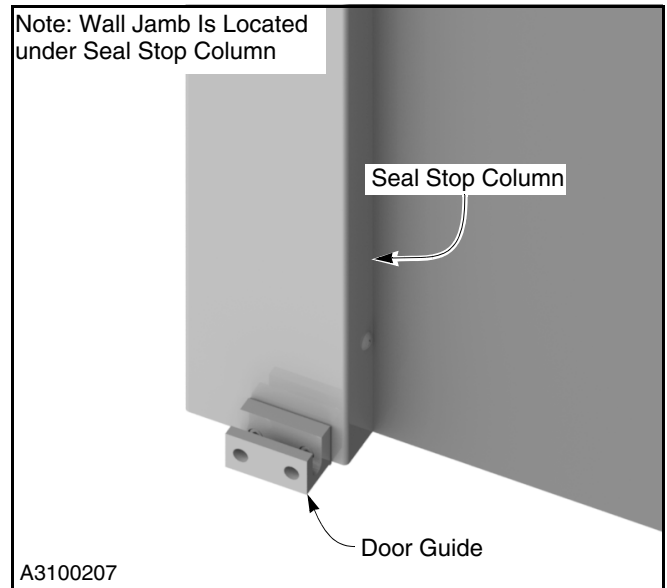


Figure 13

4. Loosen the hardware and adjust the wall jamb as required. (See Figure 14.)

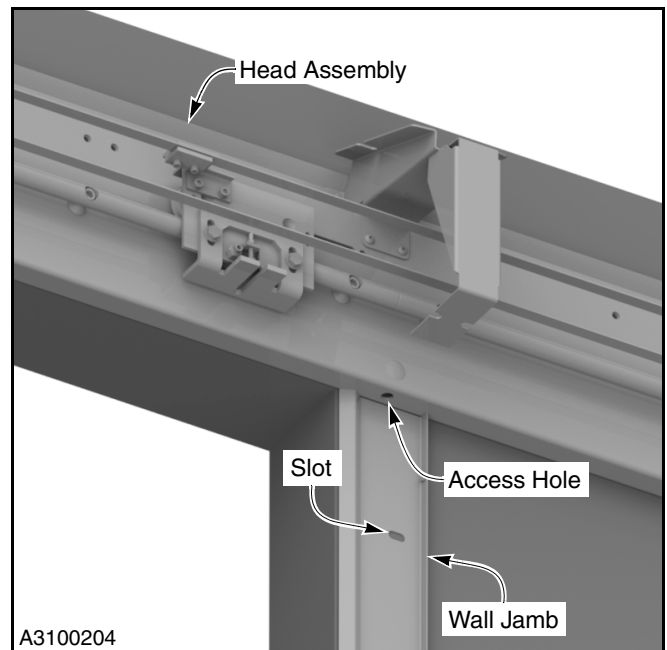


Figure 14

5. Check that the wall jamb is level, tighten hardware, and install the seal stop column.
6. Install the door and adjust if required. See "DOOR PANEL" on page 5.
7. Restore power to the Tormax operator and check the seal stop.

MISCELLANEOUS—BELT TENSION (SINGLE AND BI-PARTING)

BELT TENSION (SINGLE AND BI-PARTING)

The belt tension is set at the factory. If the belt starts skipping or if the door is not operating smoothly and efficiently, an adjustment is required.

NOTE: If the door is operating in a erratic manner, check the drive belt to see if it is worn or frayed prior to any adjustment.

DO NOT adjust belt tension by moving the Tormax operator. This is set at the factory for your door size.

1. Turn off or disconnect power to Tormax operator.
2. Loosen the nut on the adjusting screw.
(See Figure 15.)
3. Loosen the idler pulley screw.
4. Adjust the belt tension in the desired direction with the adjusting screw.
 - Turn screw clockwise to tighten belt.
 - Turn screw counterclockwise to loosen belt.

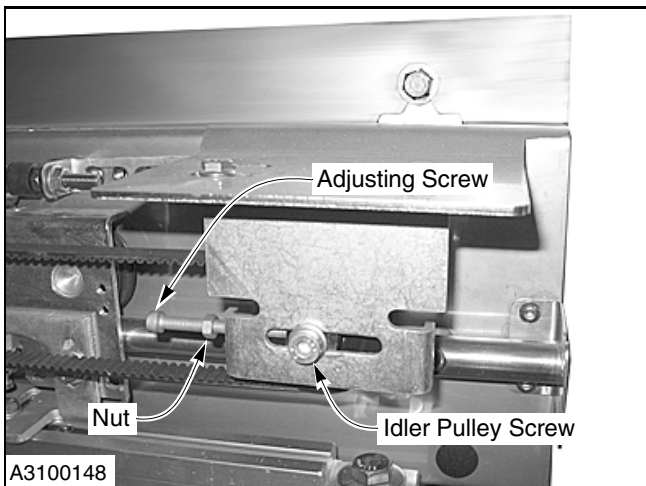


Figure 15

NOTE: If the belt has been adjusted properly and there is no visible belt wear, the door itself may need adjusting. (See "DOOR PANEL" on page 5.)

5. Restore power to the Tormax operator.

MISCELLANEOUS

PANEL CLEANING

With all adjustments to the door complete, clean both sides of each panel with a general household surface cleaner using a clean, soft cloth.

PARTS LIST

PARTS ORDERING INFORMATION

How to Order Parts

1. Identify the parts required by referring to the following pages for part numbers and part descriptions.
2. To place an order, contact your local Rytec representative or the Rytec Customer Support Department at 1-800-628-1909 or 262-677-2058 (fax).
3. To ensure the correct parts are shipped, please include the serial number of your door with the order.

DOOR SERIAL NUMBER(S)

The **DOOR SERIAL NUMBER** is located on the left side of the head assembly, behind the hood. (See Figure 20 and Figure 21.)

IMPORTANT: When installing multiple doors of the same model but in different sizes, verify serial number in the head assembly.

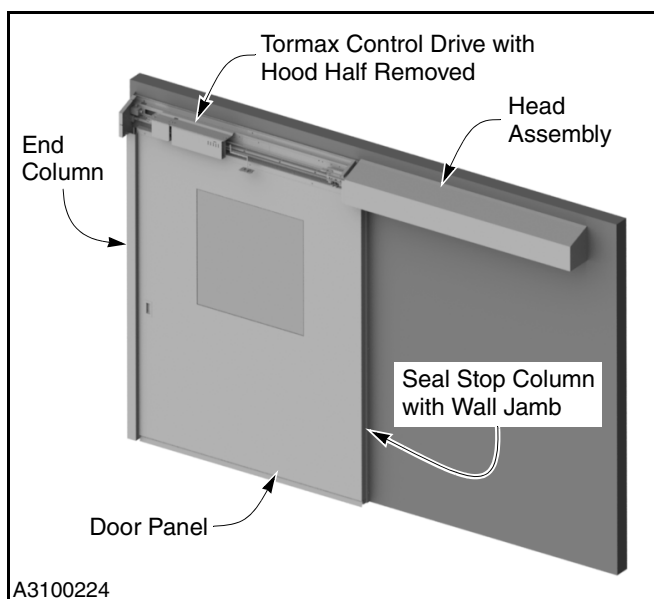


Figure 20

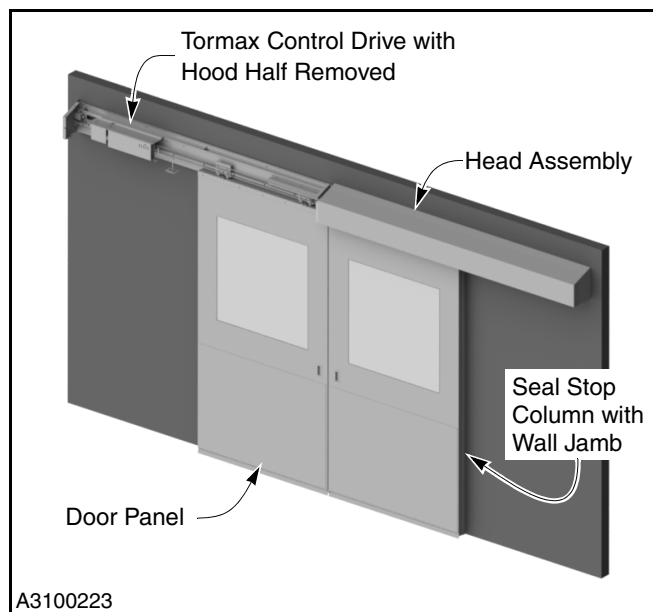


Figure 21

Substitute Parts

Due to special engineering and product enhancement, the actual parts used on your door may be different from those shown in this manual.

Also, if a part has been improved in design and bears a revised part number, the improved part will be substituted for the part ordered.

Return of Parts

Rytec will not accept the return of any parts unless they are accompanied by a Return Merchandise Authorization (RMA) form.

Before returning any parts, you must first contact the Rytec Customer Support Department to obtain authorization and an RMA form.

SINGLE SLIDE DOOR

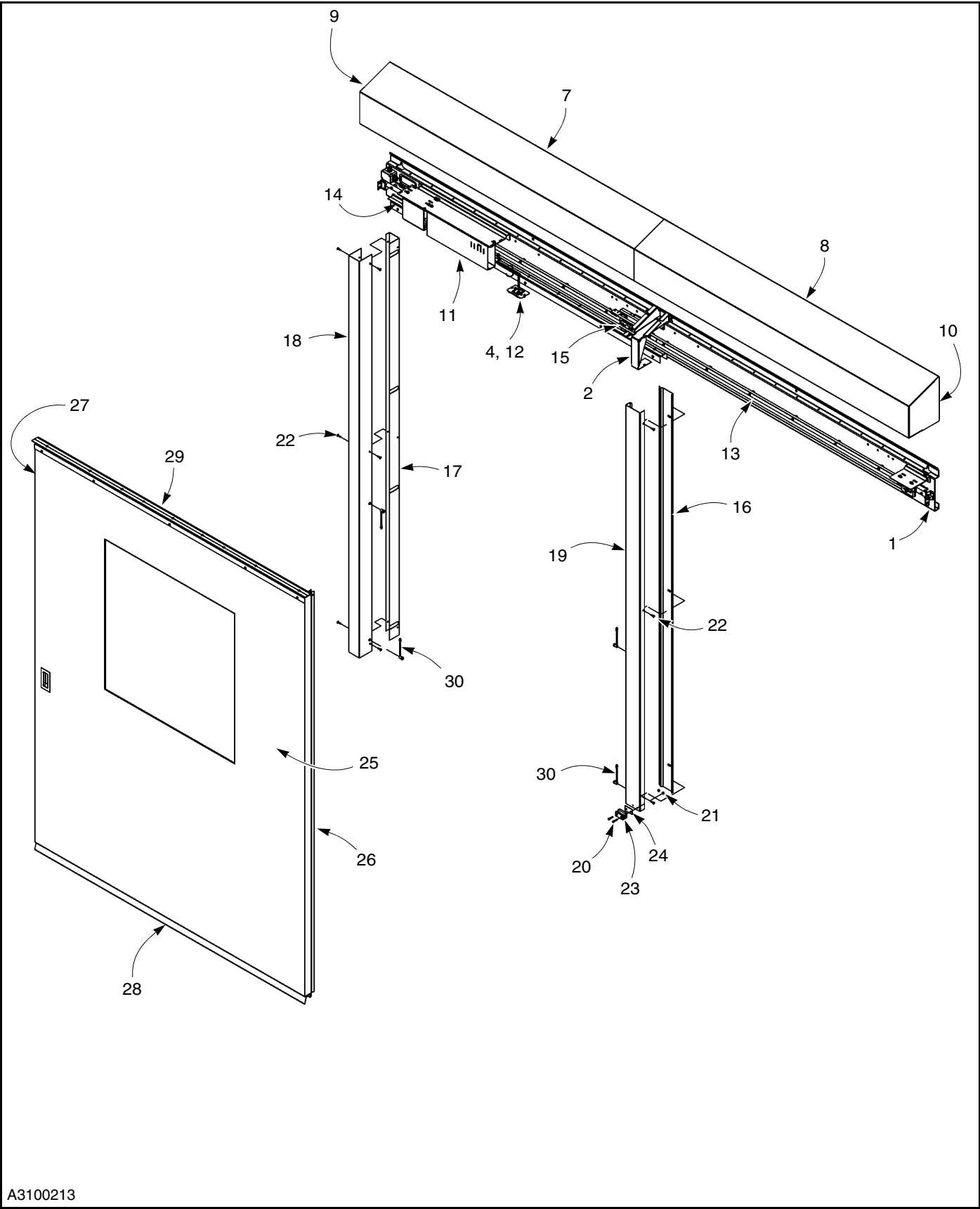


Figure 22

ITEM	QTY.	PART #	DESCRIPTION
1*	1	Consult Factory	Assy, 1 Piece Header
		Consult Factory	Assy, 2 Piece Header
2	1	11200070	Splice, Hood Header, SS
3	1	11200160	Splice, Header (Back Side of 2 Piece Header)
4	2	55500230	Screw, #6-32 x .188 BHCS, SS
5	A/R	S553103	Nut, 1/4-20 UNC, Serrated Flange, 18-8 SS
6	A/R	S021792	Screw, 1/4-20 UNC x 1/2, BHCS, SS
7*	1	11200191	Hood, LH
8*	1	11200192	Hood, RH
9	1	11200381	Hood End, LH
10	1	11200382	Hood End, RH
11	1	Consult Factory	Tormax Operator
12	1	11200610	Tormax Control Assembly
13*	1	Consult Factory	TEP Drive Belt
		Consult Factory	TXP Heavy Duty Drive Belt
14	1	0016333	Decal, Serial Number Plate
15	A/R	SL0594	Trolley, Zinc
		SL0464	Trolley, Heavy Duty Zinc
16	1	11200400	Jamb, Wall Center
17	1	11200200	Jamb, Wall End
18	1	11200132	Jamb Cover, Column End, RH
		11200131	Jamb Cover, Column End, LH
19	1	11200121	Jamb Cover, Stop Seal, LH
		11200122	Jamb Cover, Stop Seal, RH
20	2	S021781	Screw, 10-24 UNC x 1.00 Long, SHCS
21	2	S021867	Nut, 10-24 UNC, Nylock, SS
22	6	S550288	PTMS, 10-24 UNC x 3/4, SS
23	1	SL0065	Track, Guide
24	A/R	11200930	Spacer, Guide
25	1	Consult Factory	Panel, Door Assembly
26	1	Consult Factory	Seal, Stop
27	1	Consult Factory	Seal, End Column
28	1	0007830	Seal, Floor
29	1	11200980	Seal, Top
30	2	11201650	Photoeye Set, TORMAX

A/R = as required

N/A = not applicable to this assembly

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

ALWAYS INCLUDE SERIAL NUMBER OF DOOR WHEN PLACING ORDER

To ensure you receive the correct parts when placing an order, always include the serial number of your door. Also, due to product enhancement, the actual parts on your door may be different from those shown in this manual.

BI-PARTING DOOR

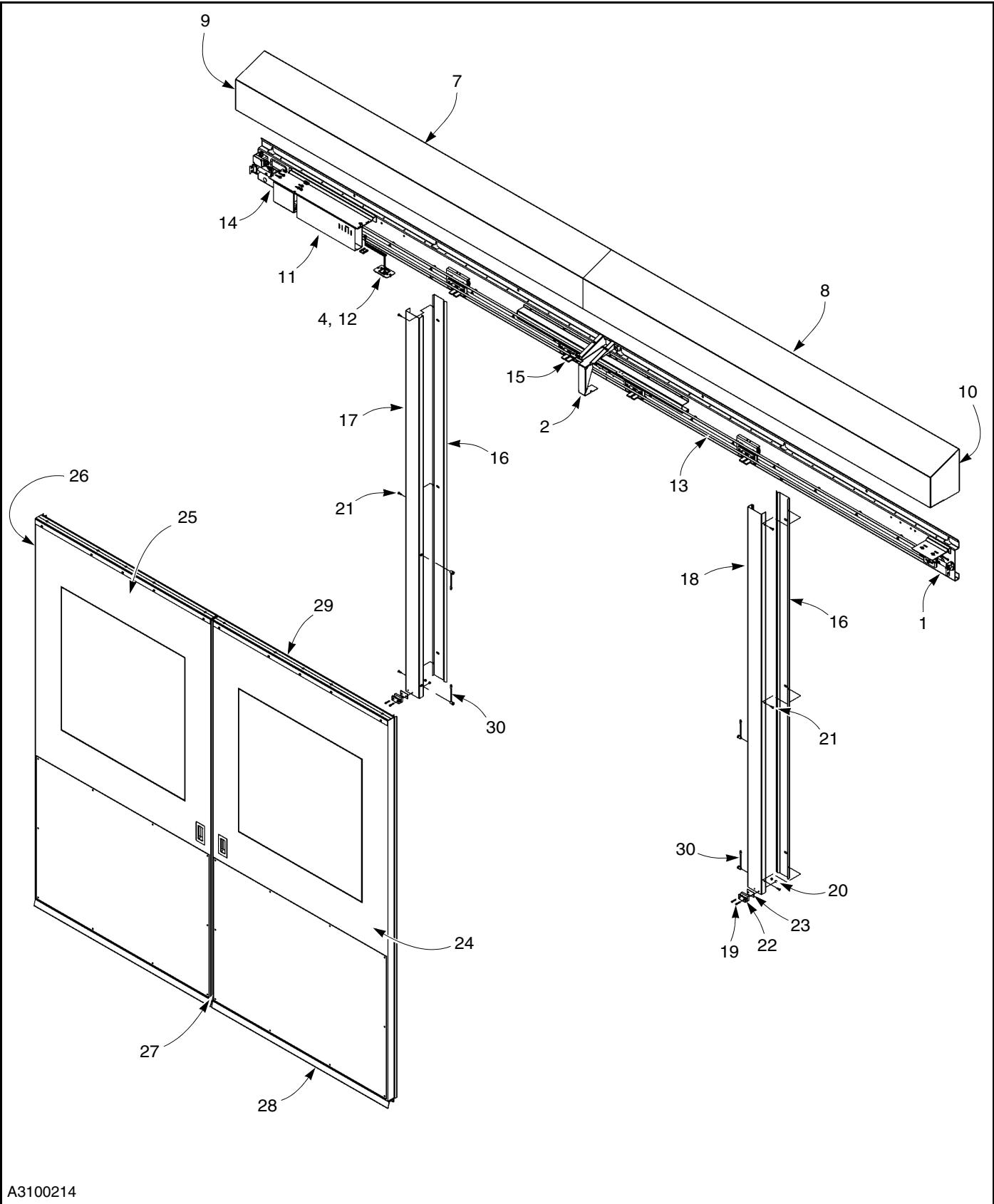


Figure 23

ITEM	QTY.	PART #	DESCRIPTION
1*	1	Consult Factory	Assy, 1 Piece Header
		Consult Factory	Assy, 2 Piece Header
2	1	11200070	Splice, Hood Header, SS
3	1	11200160	Splice, Header (Back Side of 2 Piece Header)
4	2	55500230	Screw, #6-32 x .188 BHCS, SS
5	A/R	S553103	Nut, 1/4-20 UNC, Serrated Flange, 18-8 SS
6	A/R	S021792	Screw, 1/4-20 UNC x 1/2, BHCS, SS
7*	1	11200191	Hood, LH
8*	1	11200192	Hood, RH
9	1	11200381	Hood End, LH
10	1	11200382	Hood End, RH
11	1	Consult Factory	Tormax Operator
12	1	11200610	Tormax Control Assembly
13*	1	Consult Factory	TEP Drive Belt
		Consult Factory	TXP Heavy Duty Drive Belt
14	1	0016333	Decal, Serial Number Plate
15	A/R	SL0594, SL0595	Trolley, Zinc
		SL0464, SL0493	Trolley, Heavy Duty Zinc
16	2	11200400	Jamb, Wall Center
17	1	11200121	Jamb Cover, Stop Seal, LH
18	1	11200122	Jamb Cover, Stop Seal, RH
19	4	S021781	Screw, 10-24 UNC x 1.00 Long, SHCS
20	4	S021867	Nut, 10-24 UNC, Nylock, SS
21	6	S550288	PTMS, 10-24 UNC x 3/4, SS
22	2	SL0065	Track, Guide
23	A/R	11200930	Spacer, Guide
24	1	Consult Factory	Panel, Door Assembly, RH
25	1	Consult Factory	Panel, Door Assembly, LH
26	1	Consult Factory	Seal, Stop
27	1	Consult Factory	Seal, End
28	1	0007830	Seal, Floor
29	1	11200980	Seal, Top
30	2	11201650	Photoeye Set, TORMAX

A/R = as required

N/A = not applicable to this assembly

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

ALWAYS INCLUDE SERIAL NUMBER OF DOOR WHEN PLACING ORDER

To ensure you receive the correct parts when placing an order, always include the serial number of your door. Also, due to product enhancement, the actual parts on your door may be different from those shown in this manual.

