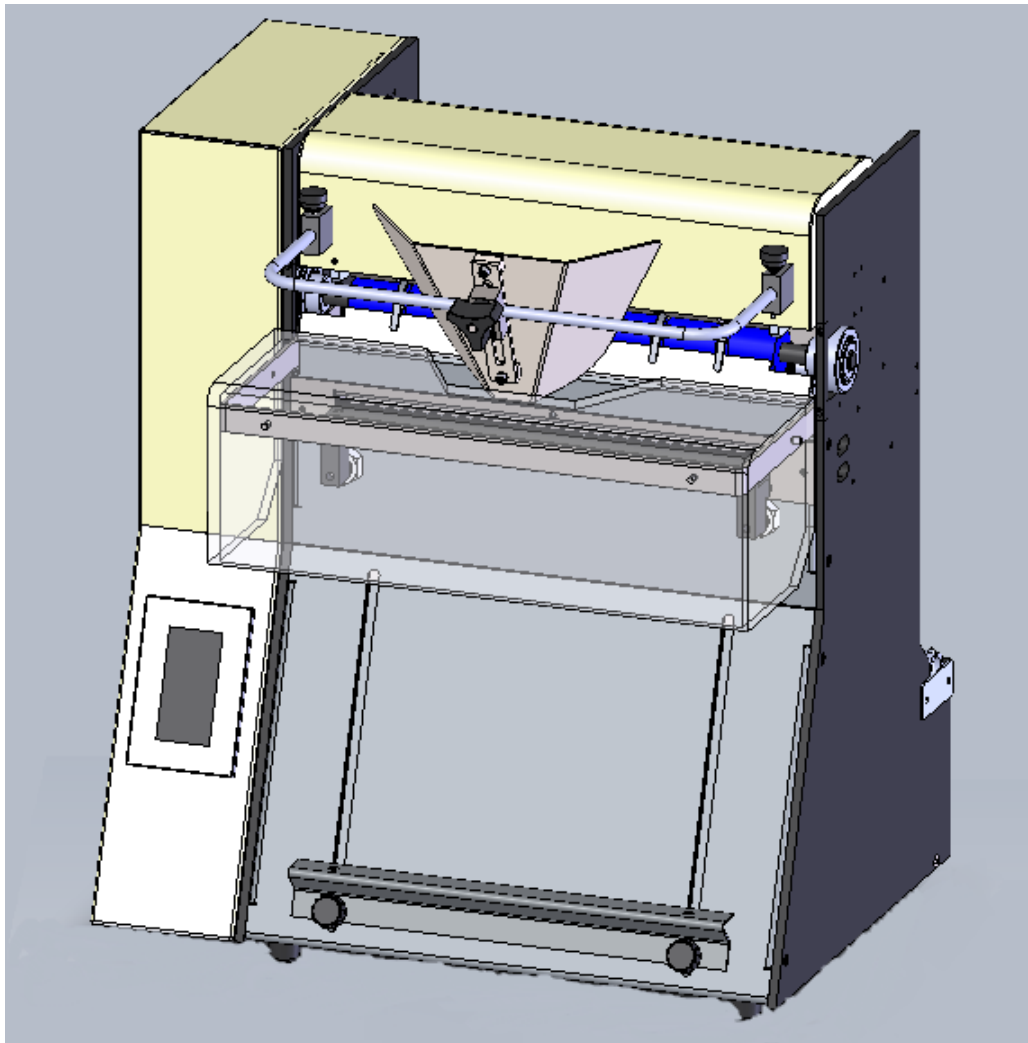


# Model T-275 Automatic Table-Top Bagger / Sealer

---

Operation Guide, Version 3  
Setup, Operation and Parts Manual



 **Advanced  
Poly-Packaging, Inc.**

1331 Emmitt Road • Akron, OH 44306 • 1-800-754-4403 • fax 330-785-4010 • [www.advancedpoly.com](http://www.advancedpoly.com)

## Acknowledgments

---

Written by: Annie Braddock

Reviewed by: Stuart Baker

## Copyright

---

2001 (Version 1), 2002 (Version 2), 2014 (Version 3) Advanced Poly-Packaging, Inc. (APPI). All rights reserved.

This manual and the program operating the equipment described in it are copyrighted. You may not copy this manual in whole or part without the consent of Advanced Poly-Packaging, Inc.

All information pertaining to the promotion, sale, distribution, operation and maintenance of the T-275 Tabletop Bagger / Sealer including this manual, drawings, schematic, wiring diagrams, video, brochures, specification sheets, figures, charts, or any other information, due to its proprietary design and manufacture remain the property of Advanced Poly Packaging, Inc. Unauthorized duplication, distribution or disclosure to third parties without the express permission of Advanced Poly-Packaging, Inc. is strictly prohibited.

## Trademarks

---

T-275 is a trademark of Advanced Poly-Packaging, Inc. Advanced Poly-Packaging, Inc. owns also the following trademarks: Advanced Poly-Bags, Advanced Poly-Bagger, Seal-a-Print, Roll-a-Print, Twin-Seal, Advanced Poly-Pack, Advanced Poly-Bag, Advanced Bag.

## Limited Warranty and Disclaimer

---

Warranty period is 12 months or 1,000,000 cycles whichever comes first. The warranty commences on the date of delivery of the equipment to the Purchaser. APPI warrants to the Purchaser that the equipment is free from defects in workmanship or material under normal use and service. During the warranty period, APPI agrees to repair or replace, at its sole option, without charge to Purchaser, any defective component part of the equipment. To obtain service, Purchaser must return the equipment or component to APPI or an authorized APPI distributor or service representative in an adequate container for shipping. Any shipping charges, insurance, or other fees must be paid by Purchaser and all risk for the equipment shall remain with Purchaser until such time as APPI takes receipt of the equipment. Upon receipt, APPI, the authorized distributor or service representative will promptly repair or replace the defective component and then return the equipment or component to Purchaser, shipping charges, insurance and additional fees prepaid. APPI may use reconditioned or like new parts or units, at its sole option, when repairing any component or equipment. Repaired products shall carry the same amount of outstanding warranty as from original purchase. Any claim under the warranty must include a dated proof of delivery. In any event, APPI's liability for defective components or equipment is limited to repairing or replacing the components. This warranty is contingent upon proper use of the equipment by Purchaser and does not cover: expendable component part such as Print Heads, thermocouple wire, heater cartridge, rollers, bushings, and the like; or if damage is due to accident, unusual physical, electrical or electromechanical stress, neglect, misuse, failure of electric power, water damage (from airlines), improper environmental conditions, transportation, tampering with or altering of the equipment, packaging of corrosive or contaminating products or other products damaging to components, and equipment or components not owned or in the possession of original Purchaser. APPI will not be liable for loss of production, profits, lost savings, special, incidental, consequential, indirect or other similar damages arising from breach of warranty, breach of contract, negligence, or their legal action even if APPI or its agent has been advised of the possibility of such damages or for any claim brought against the Purchaser by another party. This warranty allocates risks of equipment failure between Purchaser and APPI. APPI's pricing reflects this allocation of risk and the limitations of liability contained in this warranty. The warranty set forth above is in lieu of all other express warranties, whether oral or written. The agents, employees, distributors and dealers of APPI are not authorized to make modifications to this warranty, or additional warranties binding on APPI. Accordingly, additional statements such as dealer advertising or presentations, whether oral or written, do not constitute warranties by APPI and should not be relied upon. Warranty on equipment is considered void when outstanding balances become delinquent (over 30 days late - 60 days after ship date). Equipment Integration to other Equipment: APPI assumes no responsibility for the integration of its products to other products or within a system unless APPI performs the integration, testing and provides the results of the tests to the purchaser in writing. Furthermore, APPI assumes no responsibility for bag sizing whether suggested or recommended

# TABLE OF CONTENTS

<b>Chapter 1: Introduction</b>	<b>4</b>
1.1 Welcome .....	5
1.2 Overview.....	5
1.3 Using This Manual.....	5
1.4 Special Features .....	5
1.5 Available Options .....	5
1.6 Special Note on Safety.....	6
1.7 Specifications.....	6
1.8 Unpacking and Setup.....	7
1.9 Operation Environment.....	7
1.10 Warranty Registration.....	8
<b>Chapter 2: Getting Started</b>	<b>10</b>
2.1 Air and Power Hookup .....	11
2.2 Roll Mounting and Threading .....	11
2.3 Main Power.....	11
2.4 Operation / Component Tests Prior to Production .....	11
2.5 Heat / Seal Time Setting .....	12
2.6 Air / Seal Pressure Adjustments .....	12
2.7 Air Pulse / Blower Adjustment.....	12
2.8 Funnel Position .....	12
2.9 Cycle Operation Methods .....	12
2.10 Adjustable Shelf.....	13
2.11 Pull Tension Adjustments.....	13
2.12 Note on Seal Quality.....	13
2.13 Totalizing Counter .....	13
<b>Chapter 3: Touch Screen Operation</b>	<b>16</b>
3.1 Touch Screen Specifications.....	17
3.2 Touch Screen Program.....	17
3.3 Introductory / Technical Assist Screen.....	17

3.4 Main Menu.....	18
3.5 Settings Screen.....	19
3.6 Seal Settings Screen.....	19
3.7 Options Screen.....	20
3.8 Job Save Function / Screen.....	21
3.9 Message Screens / Information Screens .....	22
<b>Chapter 4: Maintenance, Troubleshooting</b>	<b>24</b>
<hr/>	
4.1 Adding PTFE to Rubber Strip and Cleaning.....	25
4.2 Rubber Strip Replacement.....	25
4.3 PTFE Spool Advancement .....	25
4.4 PTFE Sheet Replacement.....	25
4.5 Heater Cartridge Replacement.....	27
4.6 Description of Anti-Jam Circuit .....	28
4.7 Anti-Jam Adjustments / Testing .....	28
4.8 Preventative Maintenance.....	31
4.9 Recommended Spare Parts List.....	32
4.10 Electrical and Pneumatic Drawing .....	32
<b>Chapter 5: Parts</b>	<b>36</b>
<hr/>	
5. Parts / Component Identification .....	37
5.1 T-T275 Tabletop Bagger System Layout .....	37
5.2 Electronics Assembly .....	39
5.3 Mechanical Assembly.....	41
5.4 Heater Bar Assembly.....	44

# Chapter 1: Introduction

---

Welcome

Overview

Using This Manual

Special Features

Available Options

Special Note on Safety

Specifications

Unpacking and Setup

Operation Environment

Warranty Registration

## 1.1 Welcome

Thank you for selecting the T-275 Automatic Table Top bagger/Sealer. The T-275 is easy to operate and quick to set up, making it ideal for long or short packaging runs. Where labor reduction and fast changeover is important, the T-275 uses Advanced Poly-Bags (pre-opened bags on rolls) manufactured by Advanced Poly-Packaging, Inc.

## 1.2 Overview

The T-275 is designed to package various industrial, medical, molded and food products. With a wide range of bag sizes (2" x 2" to 11" x 16") and mil thickness (1.5 mil to 5 mil), the T-275 is a versatile bagger.

The T-275 is designed to lower your packaging costs with increased speeds, versatility, reliability and simplicity. Instead of sealing with a conventional jaw sealer, which requires operators to pull individual bags from a carton and then open the bag before inserting components; the T-275 Bagger / Sealer is designed for pre-opened bag to open immediately after automatically indexing into position. The seal position can easily be raised or lowered on the bag and once loaded, the bag can be sealed without having to separate the bag at the perforation. Simple touch screen controls allow for a quick and easy setup.

## 1.3 Using This Manual

The following manual conventions are frequently used to assist in understanding important information, to alert the operator of potentially dangerous or damaging practices and to describe the normal functions of the T-275 Table Top Bagger.

- Text Normal text.
- *Italics* Used for emphasis.
- **BOLDFACE** Used to identify heading names and touch screen buttons.
- **CAUTION:** Warning messages. To avoid physical harm, damage to equipment or damage to the product, be sure to read these messages carefully.
- **NOTE:** Identifies important information.

## 1.4 Special Features

The T-275 has been designed with simplicity of operation and ease of maintenance in mind. Threading is easy with a lift and thread operation. There are no rollers to thread around so the chance of mis-threading is eliminated. A user-friendly touch screen program provides quick setting adjustments and job saves. A totalizing counter and preset counter is provided to keep track of the total bags per shift, day or job and allows for halting operation to change boxes or part numbers.

Patented design seal assembly (PTFE Shield): PTFE is only in contact with hot wire during sealing and is then stripped away from the heater bar immediately after sealing. This reduces contamination buildup, increase PTFE life and improves seal integrity.

Patented Anti-Jam Device: During the loading and sealing operation, this device detects obstructions and automatically reverses the pressure bar, discounting the cycle operation.

## 1.5 Available Options

Although the T-275 is equipped with many standard features, additional available options are recommended to improve up-time, production and safety.

**Spare Parts Kit:** Additional PTFE, heater wire, valves and other components make this kit a must.

**Special Funnels:** Send us your product and we will evaluate the loading to determine the best funnel design.

**Bag Deflator:** Quickly mounts to the sealer bar, squeezing the air from the bag while sealing.

**CS-10 Compartment Seal:** Seals the bag twice with compartments within the same bag.

**CF-10 Counting Funnel:** This option automatically cycles the bagger when a preset number of parts have fallen through the funnel.

**LC-10 Light Safety Curtain:** If funnels are removed, APPI highly recommends the addition of this option to prevent injuries. This option, when activated, prevents inputs to valves that cause the seal bar to activate. Additionally, the stepper motor stops when blocked.

Other options may have been added since the date this list was printed. Please call for additional or custom options pricing.

## 1.6 Special Note on Safety

Although many safety features are included in the mechanical, electronic and pneumatic systems, improper use, improper adjustments or neglect of preventative maintenance may result in serious personal injury. This operation manual highlights safety practices throughout the manual that must be strictly adhered to.

### General topics regarding safety:

- **CAUTION:** *Never operate the machine with covers, guards or funnels removed*
- **CAUTION:** *Do not reach under the lexan guard or into the seal area.*
- **CAUTION:** *Only certified maintenance or electrical personnel should perform maintenance procedures.*
- **CAUTION:** *Standard tag/lockout procedures include disconnecting air and electricity when performing maintenance tasks.*
- **CAUTION:** *Do not attempt to reprogram machine.*
- **CAUTION:** *Use only APPI approved parts/replacement components.*
- **CAUTION:** *Do not modify or otherwise alter machine operation, components or design.*

### Potential injuries:

- **CAUTION:** *Cuts or minor abrasions from sharp objects, including not but limited to sheet metal fingers, screws, edges*
- **CAUTION:** *Crush injuries from pinch points, including but not limited to bag rolls shaft, pinch rollers, funnel assembly or seal area.*
- **CAUTION:** *Back, arm, leg or other muscle strain from lifting rolls of bags, boxes of bags or product.*
- **CAUTION:** *Muscle strain from loading bags, separating bags or other repetitive functions*
- **CAUTION:** *Electrical shock if unit is not turned off and unplugged prior to removing guards or covers*
- **CAUTION:** *Minor burns form exposure to heater bar*
- **CAUTION:** *Eye injury from not wearing eye protection during loading of product or sealing of bags.*

## 1.7 Specifications

Weight:	65lbs
Air:	60-70PSI
Electric:	117V/60HZ or 220V/50Hz
Bag Sizes:	2 x 2 up to 11 x 16
Product pass through area:	approx 2.75"

## 1.8 Unpacking and Setup

The T-275 is shipped completely assembled and in a carton or crate. Remove all tape, banding or packing materials that secure the machine. To ensure the highest production possible, consider product flow to the bagger and packaged product flow away from the bagger when positioning the bagger into your packaging areas.

## 1.9 Operation Environment

When you choose a location for installation, make sure the area is free of excess dust, dirt and moisture.



## 1.10 Warranty Registration

This section must be completed and returned to Advanced Poly Packaging, Inc. to register the T-275 for Warranty Protection.

T-275 Serial Number:

---

(Serial number located on the back panel)

Company Name and Address

Contact Name(s) / Title(s) / Phone Number

<hr/> <hr/> <hr/>	<hr/> <hr/> <hr/>
-------------------	-------------------

Please fax or mail this page to:

Service Manager  
Advanced Poly-Packaging, Inc.  
1331 Emmitt Road  
Akron, OH 44306  
USA

Fax # (USA) 330-785-4010

Or email the information above to: [sales@advancedpoly.com](mailto:sales@advancedpoly.com)

This page intentionally left blank.

# Chapter 2: Getting Started

---

Air and Power Hookup

Roll Mounting and Threading

Main Power

Operation / Component Tests Prior to Production

Heat / Seal Time Setting

Air / Seal Pressure Adjustments

Air Pulse / Blower Adjustment

Funnel Position

Cycle Operation Methods

Adjustable Shelf

Pull Tension Adjustments

Note on Seal Quality

Totalizing Counter

## 2.1 Air and Power Hookup

The T-275 is equipped with an internal regulator and the air supply should be fed to the bagger with ¼ min. inch O.D. poly tubing. Make the connection at the rear of the sealer. Set the air pressure on the T-275 between 50 and 70 PSI. Use the lowest possible pressure setting to achieve consistent seals. See Figure 2-1.

**CAUTION: Do not use lower than the minimum and no higher than 70 PSI. Higher pressures may cause further injury to fingers in seal area. To avoid injury, do not reach into the seal area.**



Figure 2-1

## 2.2 Roll Mounting and Threading

Remove the roll shaft from the rear of the machine. Loosen one of the knobs located on the chuck which secures the roll into position. Mount the roll of bags onto the bag roll shaft and secure the bag roll into position with the chuck. With the loose web of bags falling over the rear of the roll, insert the web into the slot above the stainless rear cover and below the top cover. With the web of bags positioned under the top cover, raise the top cover of the T-275 by lifting the funnel mounting rods. Pull the web forward through the cover while lowering the top cover. When the top cover is lowered, the first bag should open by the airflow. The roll shaft is fixed into position with a pin and will not spin. The roll should freely turn on the shaft. However, tension can be added to the web of bags by loosening one knob, squeezing the roll of bags with the two chucks and tightening the knob. Do not apply too much tension or the web of bags may prematurely break as they are feeding through the machine. See Figure 2-2.

**CAUTION: Be careful when reaching into roller area; roller “fingers” may be sharp and can cause injury.**

## 2.3 Main Power

The power switch is located on the rear right lower side. In the ON or “up” position, the switch is illuminated indicating that power is supplied to the unit.

**CAUTION: A certified electrician should ensure the incoming power is the correct voltage and is grounded before connecting the T-275.**

**CAUTION: Do not remove cover or attempt to operate with covers removed or wires exposed.**

## 2.4 Operation / Component Tests Prior to Production

A patented anti-jam circuit is provided as a standard feature of the T-275. When properly set, this feature provides some degree of safety to the product and equipment.

**CAUTION: The anti-jam feature should not be considered a safety feature since improper adjustment or malfunction could cause injury.**

Prior to beginning production, the anti-jam mechanism should be tested as follows:

**Test 1:** With air applied and the power on, position an object over 1/4" in thickness (a pen or pencil for example) on the far left side of the seal bar with the object in contact with the PTFE Shield, but not pressing in the spring-loaded “U” channel PTFE Shield. Then press the foot switch. The Anti-jam circuit is working properly if the pressure bar retracts. If the pressure bar does not immediately retract, do not begin production and refer to Chapter 4.7 for instructions on Anti-jam Adjustments.

**Test 2:** With air applied and the power on, position an object over 1/4" in thickness (a pen or pencil for example) on the far left side of the seal bar with the object pushing inward on the PTFE Shield. Ensure that you are pressing in the spring-loaded "U" channel PTFE Shield and then press the foot switch. The Anti-jam circuit is working properly if the pressure bar does NOT move inward. If the pressure moves inward, do not begin production and refer to Chapter 4.7 for instructions on anti-jam adjustments. Continue these test procedures with the object being moved along the entire seal area length from the left to the right side of the seal area.

**CAUTION: To avoid injury or damage to components, do not operate the T-275 if the anti-jam is out of adjustment or is malfunctioning.**

## 2.5 Heat / Seal Time Setting

The higher the temperature the less time is required, the lower the temperature, the more time is required.

## 2.6 Air / Seal Pressure Adjustments

To obtain good consistent seals, air pressure must be adjusted. The pressure valve is located on the rear of the unit. Typically, the air pressure is set to a constant pressure of 60 to 70 PSI. To increase the pressure, pull the black knob upward and turn clockwise. Then, push the knob inward to lock into position. To decrease pressure, pull the knob upward, turn counter clock wise and press to lock.

## 2.7 Air Pulse / Blower Adjustment

The T-275 is equipped with a 6" wide air knife and flow control valve to ensure that the bags blow open quickly and consistently. Since the air knife speeds up air, compressed air is conserved. Adjust the volume of air with the blower flow control valve located on the rear of the unit (bronze knob). To slow down or reduce the volume of air, turn the knob counterclockwise; to increase the air flow, turn the knob clockwise. Begin by turning the blower all the way down and increase slightly until the bags blow open continuously and consistently. Once adjusted, there is a locking nut to prohibit the knob from loosening.

*NOTE: Excessive air flow will cause the bag to move around and product to possibly spill from the bag.*

**CAUTION: If the blower is set to high, light product may be blown out of bag causing eye injury. Eye protection should be worn to prevent injury.**

## 2.8 Funnel Position

The funnel can be tilted in or out and adjusted closer or further from the bag opening. Typically, the bottom of the funnel is positioned approximately 1/2" from top of the bag opening. The funnel bracket assembly can be pushed inward, closer to the bag dependent upon production dimensions.

*NOTE: If the funnel is too close to the front plate, air flow may be blocked causing the bag not to blow open.*

**CAUTION: To avoid personal injury, do not operate the T-275 without guards, covers and funnel in the proper position. Funnel should be positioned to prevent an operator from reaching in the seal area. To prevent injury from the seal bar, do not reach under the guard or into the seal area.**

## 2.9 Cycle Operation Methods

There are four methods to start the seal operation: 1) foot switch operation, 2) guard switch operation, 3) manual button on touch screen and 4) automatic button on touch screen, described as follows:

1. **Foot switch operation:** When the foot switch is plugged into the back of the bagger, pressing the foot switch will begin the operation of the sealer mechanism. The guard switch is disabled when the foot switch is plugged in.

*NOTE: The touch screen must be toggled to Run. See Chapter 3 for information regarding the touch screen operation.*

2. **Guard Switch operation:** To operate the seal mechanism using the guard switch, the foot switch must be unplugged and a “key” must be inserted into the foot switch plug located at the rear of the unit. When the key is plugged in, the guard switch may be used to cycle the machine. With the key in position and the product is in the bag and the bag is in the desired seal position, press downward on the front center of the guard to begin the seal operation. The guard is spring-loaded with a micro switch mounted inside the panel (See Fig. 2-9)
3. **Manual cycle operation:** Read Chapter 3 thoroughly before beginning production.
4. **Automatic cycle operation:** Read Chapter 3 thoroughly before beginning production.

**CAUTION: Ensure your fingers are not in the seal area when pressing the foot switch or guard switch or your fingers may be pinched or burned by the closing seal bar.**

## 2.10 Adjustable Shelf

The T-275 is equipped with an adjustable support shelf which supports heavier products when dropped into the bag. The shelf can be adjusted up and down by loosening both thumb screws and sliding the shelf up and down, ensuring the shelf is level.

## 2.11 Pull Tension Adjustments

To improve bag alignment, increased web tension may be required. You can increase tension by loosening one of the chucks that hold the roll in position on the shaft and pressing it inwards, toward the center of the roll of bags. Then, tighten while pressing inward. This increases drag on the roll of bags, increasing web tension. Also, if the bags pay off too much when the web advances, increasing drag will prevent bags from paying off excess film.

## 2.12 Note on Seal Quality

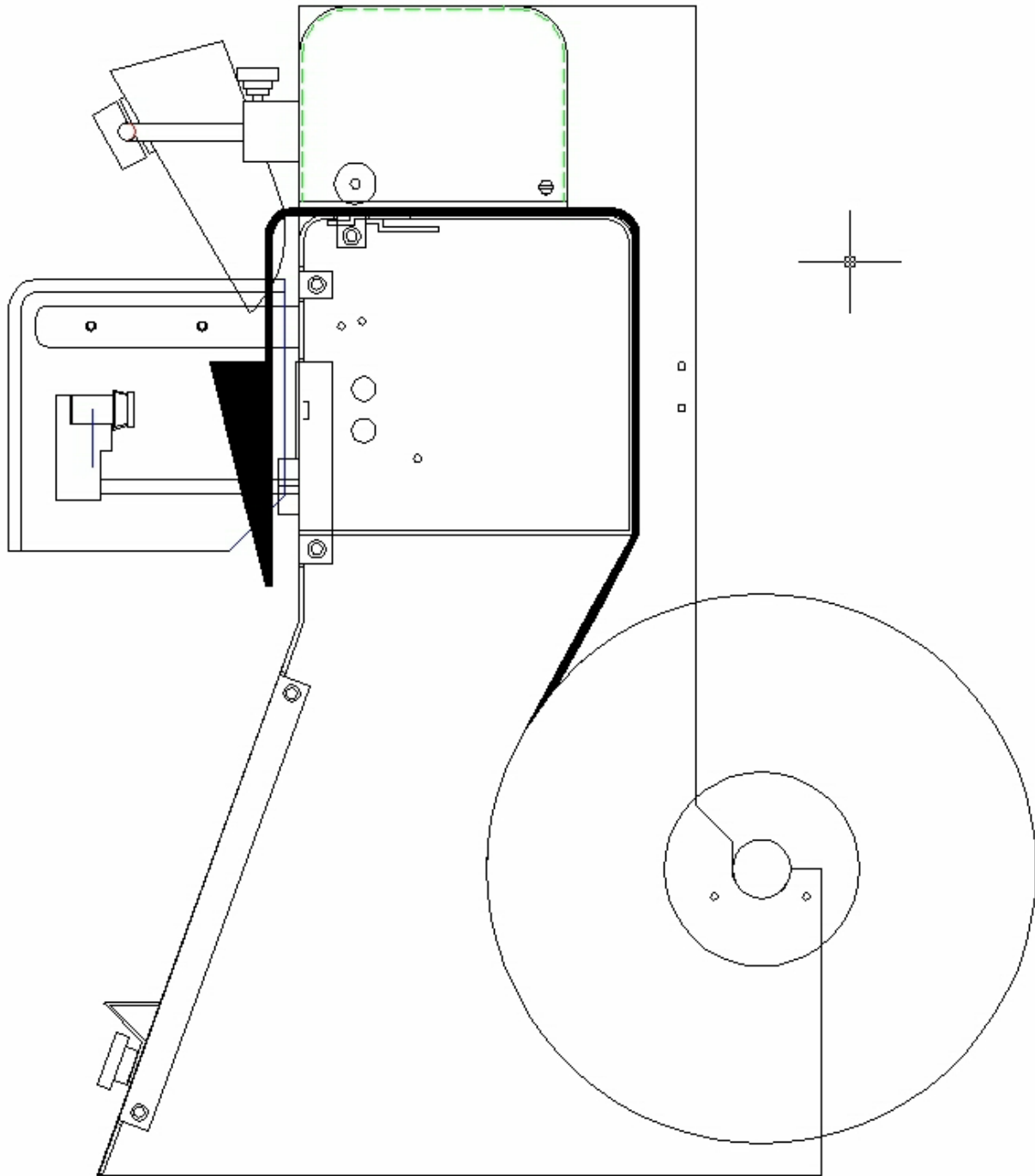
After sealing the first bag and allowing the seal to cool, test the seal for strength by attempting to pull the layers apart. Heat, dwell time and pressure affect the quality of seals. If the seal separates, increase the seal time. Additionally, check the air pressure and increase the pressure in small increments. After initial startup and after sealing several bags, you may decrease the seal time slightly. Refer to 3.6 for seal temperature and seal time settings.

## 2.13 Totalizing Counter

To track production, use the Total Counter to count the total number of machine cycles. Press the **Reset** button to reset the counter to zero.

# T-275 Threading Diagram

Figure 2-2



This page intentionally left blank.



# Chapter 3: Touch Screen Operation

---

Touch Screen Specifications

Touch Screen Program

Introductory / Technical Assist Screen

Main Menu

Settings Screen

Seal Settings Screen

Options Screen

Job Save Function /

Screen

Message Screens / Information Screens

### 3.1 Touch Screen Specifications

The following are specifications for the touch screen:

Screen	3"
Resolution	128 x 64 pixels
LCD	Green, Red, Orange
Backlight	No Backlight (LED is used)
Memory	384KB
Communication	RS232C
Touch Key Res.	Free, Analog
Languages	
Dimension	110 x 72 x 28mm (W, H, D)
Power	5Vdc, 0.20A
Display	Green, Orange or Red

### 3.2 Touch Screen Program

The Touch Screen Program is a user-friendly, menu-driven setup and operation program. Pop-up windows are incorporated for quick and easy setting adjustments. Each time a setting is changed, the settings are saved to a “default” job so that if power is lost, the “job” will be recalled without the need for setting adjustments. Three colors may be displayed which indicate the operation status of the bagger, as follows:

- Green: Normal Operation
- Red: Warning / Stop Mode
- Orange: Information / Pause

### 3.3 Introductory / Technical Assist Screen

When the machine power is turned on, the Technical Assist screen is displayed, with Menu buttons to provide information on the machine. From this screen, technical assistance contact information, maintenance/troubleshooting screens and PLC IO information can be accessed. See Figure 3-1.



Figure 3-1

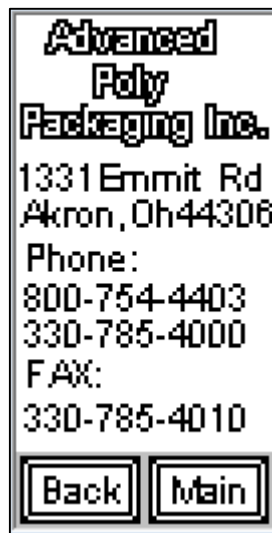


Figure 3-2

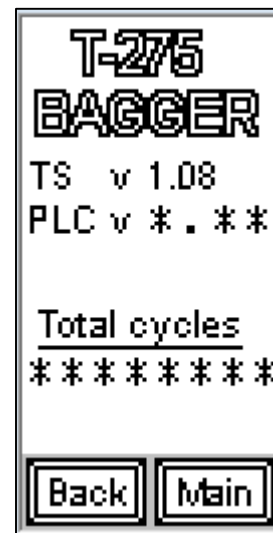


Figure 3-3

Press the **Contact Info** button to display the manufacturer's name and contact information. See Figure 3-2.

Press the **Maintenance** button to display the Touch Screen (TS) and Programmable Logic Controller (PLC) program versions installed on the machine. The total cycles run on the machine may also be viewed here, see Figure 3-3.

*Note: When calling Advanced Poly Technical Support, please note this program version. The program version on your machine may be different from Fig. 3-3.*

Press the **PLC I/O** button to display inputs and outputs status. From this screen, a maintenance person can troubleshoot the unit by examining the status of inputs and outputs of signals to components on the unit. Typically, this screen is used to provide phone assistance to maintenance personnel. See Figure 3-6 through Figure 3-7.

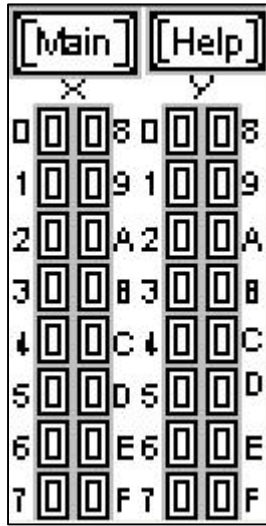


Figure 3-4

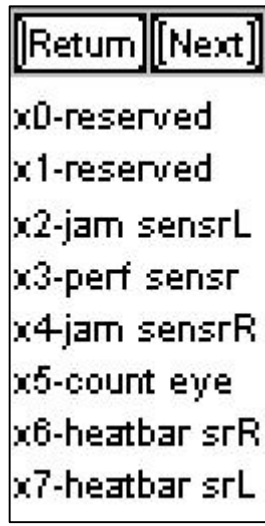


Figure 3-5



Figure 3-6

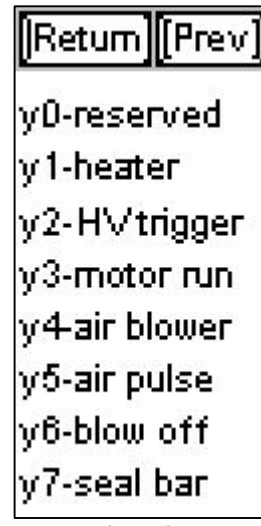


Figure 3-7

Press the **Main Menu** button to go to the Main Menu which displays buttons used for the normal operation and settings of the machine. See Section 3.4 Main Menu.

### 3.4 Main Menu

From the Main Menu, all main screens that affect the operation of the machine can be accessed. See Figure 3-8.

The top three buttons: WAITING or READY, STOP/START and MANL/AUTO are positioned at the top of the screen and other operation screens.

**WAITING / READY:** If the machine is heating or otherwise cannot run, the WAITING message will be displayed. Once the heater bar is with 10% of the set temperature, the READY message will be displayed.

**STOP / RUN:** The machine must be in the RUN mode to operate. The machine always powers up into the STOP mode and also goes to the STOP mode if a Warning message is displayed.

**MANL / AUTO:** In the MANL (Manual) mode, the footswitch, guard switch or other cycle method must be used to initiate the cycle operation of the machine. In the AUTO mode, the machine will cycle automatically.



Figure 3-8

SETTINGS menu option displays the settings for Fill Time, Air Pulse and Blow Off timers.

SEAL SETTINGS displays the settings for Seal Time and Seal Point timers and Heater Temp. setting.

OPTIONS menu displays options setup screens for Counters, Compartment Seal and Counting Funnel options.

### 3.5 Settings Screen

From the Settings Screen, several timers that affect the bag cycle operation can be adjusted. See Figure 3-9.

**Fill Time:** In an AUTO mode operation, the Fill Time setting adjust the time the operator has to load the bag before the seal operation begins. In this “paced operation”, increasing the fill time decreases the cycles per minute, allowing more time for filling.

**CAUTION: To avoid personal injury, do not operate the T-275 in AUTO mode when funnels or guards are removed. Funnels should not be removed unless a light curtain or palm buttons or other approved safety device is installed. Guards should never be removed in an operation status.**

**Air Pulse:** When the bag stops in the loading position, an air pulse is generated that assists in opening the bag. The Air Pulse setting adjusts the length of time that the air blows from the blow tubes. For larger/wider bags or thicker bags, additional air pulse time may be required. Typically, the set point is .1 to .3 seconds.

**Blow Off:** To decrease the possibility of bags sticking to the PTFE, a blow off tube is provided as a standard feature. The blower tube is located in the center, immediately below the seal bar. Typically, the blow off time is set to .02 to .15 seconds.



Figure 3-9

### 3.6 Seal Settings Screen

From the Seal Settings Screen, timers and heat adjustments that affect the seal quality can be adjusted. See Figure 3-10.

**Seal Time:** Seal time is the amount of time that the pressure bar is pressed against the heater bar.

Combined with temperature and pressure, seal time is a critical adjustment to obtain good quality seals.

For thicker bags, additional seal time is required. Typically, the Seal Time is set to .2 to .5 seconds, depending on bag thickness.

**Seal Point:** Adjusting the position that the bag stops in the loading position changes the seal location.

Feeding the bar further out of the machine causes the seal point to increase, closer to the top/opening of the bag. Seal point setting is based upon the bag size and the thickness of the product. Longer bags and thicker product causes the bag to be sealed further down from the top of the bag. Typically, the bag is sealed 1/2” to 2” from the opening. Settings to accomplish this range from .65 to .4.

**Seal Temperature (Heater):** A heater cartridge is mounted inside of a solid heater bar. Temperature is maintained by the controller at a constant temperature, but can be adjusted for thicker or thinner bags. Typically, the seal temperature is set between 300 and 400 degrees F. Both the current temperature and the set temperature are displayed. An LED to the left of the setpoint, when lit, indicates that current is being sent to the heater bar.

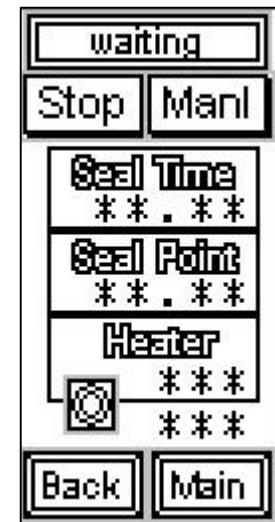


Figure 3-10

*NOTE: Excessive seal time can cause burns in the PTFE and the bag and decrease the life of the heater cartridge.*

**CAUTION: To avoid injury, do not place fingers in the seal area.**

### 3.7 Options Screen

The T-275 is equipped with several options, but other option can be added to the machine to increase throughput, efficiency or safety. See Figure 3-11.

**Counters:** The unit is equipped with two internal cycle counters. See Figure 3-12.



Figure 3-12

**Totalizing Counter:** total cycles of equipment, counts from 0 to 99,999. Reset button zeros this counter.

**Preset or Predetermined Counter:** counts down from a preset number. When the count reaches zero, the machine operation stops and a message is displayed indicating that the count has been reached. Reset button resets the count to the preset value.

**Compartment Seal Option:** trapping product in two compartment on the bag. This option is provided for packages whereas one product may damage the other, separating the two products. See Figure 3-13. To use this option, toggle the OFF/ON button to ON. Two seal timers are provided to adjust both the first seal and then the second seal. The compartment size of the top

compartment may be limited by the amount bag that is fed from the machine before the opening is still inside the machine. Adjust the Main Seal point and Compartment Seal point to adjust the compartment sizes. Several attempts may be required before the optimum setting is achieved.

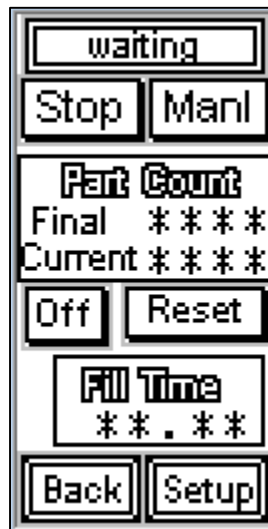


Figure 3-14

**Counting Funnel Option:** Efficiency, production or accuracy of counts of parts entering the bag. Components, including photo eyes and cables are required. This option also automatically cycles the machine when the part count has been reached. To start using this option, toggle the OFF/ON switch to ON. See Figure 3-14.

**Fill Time Setting:** This timer delays the seal cycle operation after the final count has been reached. If the count is set to one, the Eye Delay setting should be set to a value to allow the product to completely pass through the seal area, to the bottom of the bag, before the seal bar engages. If the seal bar engages before the part is all the way in the bag, possibly sealing on the bag, then increase the Fill Time.

**Setup button/Screen:** To ensure that one part is only counted as one, a Max Size delay timer is provided. The setup / test screen is provided to assist the operator in determining the amount of time that the product is passing through the eye and then set the Max Size setting to a value that causes the unit to count parts correctly. See Figure 3-15.



Figure 3-11



Figure 3-13

To use the Test Screen, first press the reset button. Then, drop one part through the photo eye.

A value will be displayed to the right of number 1 on this screen. If a number is displayed to the right of the 1 and 2, then the part was counted as two. This problem can be corrected by setting the Max Size to a value GREATER than the tested values. See Figure 3-15.

The values to the right of the 1 and 2 will automatically reset to zero allowing for continued testing. Continue to drop parts until the MAX value does not increase. Then, set the Max Size to a value greater than the Max displayed value.

Press the Back button to test the Max Size settings to ensure that one product is only counted once.

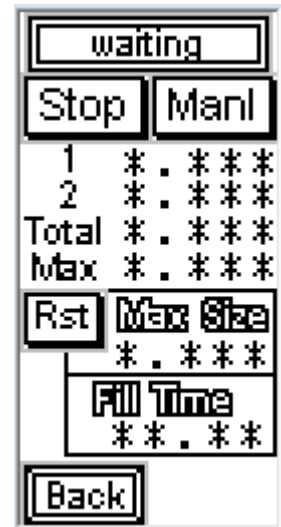


Figure 3-15

### 3.8 Job Save Function / Screen

As a standard feature, the Job Save Screen is provided to save the various “recipes” of settings.

Sixteen jobs can be saved to include all timer settings and options settings that affect the operation of the machine. See Figure 3-16 through Figure 3-20.



Figure 3-16



Figure 3-17



Figure 3-18

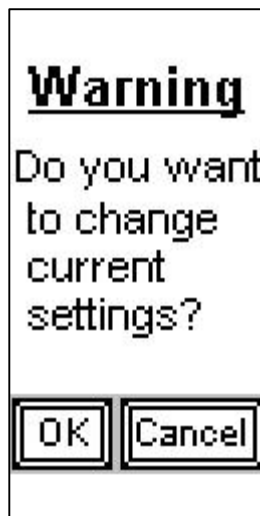


Figure 3-19

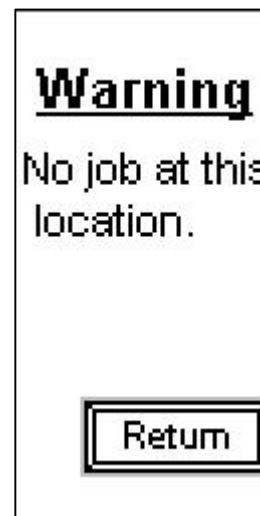


Figure 3-20

Once the settings are correct and the machine is functioning properly, press the Save button to the right of the Job Number.

### T-275 Job Save Chart

Ensure that you don't overwrite setting of previously saved jobs by using the following chart to write your reference information regarding the job saves.

Job #	Part Number	Description
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		

### 3.9 Message Screens / Information Screens

Whenever an unusual condition occurs, a Message screen is displayed. If the condition causes the machine to stop the cycle operation, the screen is typically Red. These conditions cause the machine to revert to the Stop condition. For other conditions, an Orange screen is displayed.

Once these messages are cleared, the cycle operation can continue. See Figure 3-21 through Figure 3-29 for examples of Message / Information screens.

**Warning!**

Please check  
right Heat Bar  
sensor.

Return

Figure 3-21

**Warning!**

Please check  
left Heat Bar  
sensor.

Return

Figure 3-22

**Warning!**

PLC  
Operation  
Error

Turn power off  
and on to clear

Return

Figure 3-23

**Warning!**

Open  
thermocouple

Please check  
wiring.

Return

Figure 3-24

**Warning!**

Top  
is open

Close cover  
to operate.

Return

Figure 3-25

**Stop!**

Perf sensor  
not triggering.

Check if it is  
clean.

Return

Figure 3-26

**Stop!**

Preset count  
reached.

Return

Figure 3-27

**Stop!**

Seal bar  
not engaging.

Please Check  
air pressure.

Return

Figure 3-28

**Stop!**

Anti-jam

Check seal bar  
area.

Return

Figure 3-29



# Chapter 4: Maintenance, Troubleshooting

---

Adding PTFE to Rubber Strip and Cleaning

Rubber Strip Replacement

PTFE Spool Advancement

PTFE Sheet Replacement

Heater Cartridge Replacement

Description of Anti-Jam Circuit

Anti-Jam Adjustments / Testing

Preventative Maintenance

Recommended Spare Parts List

Electrical and Pneumatic Drawing

## 4.1 Adding PTFE to Rubber Strip and Cleaning

New rubber is often sticky when initially used causing bags to cling to the rubber when sealed. But after a short period, the rubber will become slick and not cling to the bag material. Self-adhesive PTFE strips may be added to the rubber pressure strip if the product continually sticks to the rubber strip or to improve seal integrity. Periodically clean the rubber strip with alcohol to remove contaminants and plastic buildup.

## 4.2 Rubber Strip Replacement

Through normal use, the rubber strip will wear causing seal quality problems. The rubber will also wear prematurely if contacting the product during the seal operation. When the wear affects the seal quality, replace the rubber strip by following these procedures:

1. Remove air from the unit, turn the T-275 power "OFF" and unplug the power cord.
2. Remove the worn rubber pad by pulling from the end corner of the rubber strip. Once started, the rubber will easily slide out from the metal pressure strip housing. See Figure 4-1.
3. Clean out the metal slot with alcohol and a cloth or brush.
4. Slide the extruded rubber into the metal housing slot starting at one end and continuing to work the rubber along the length of the slot. When into position, the rubber strip should be loose in the slot.

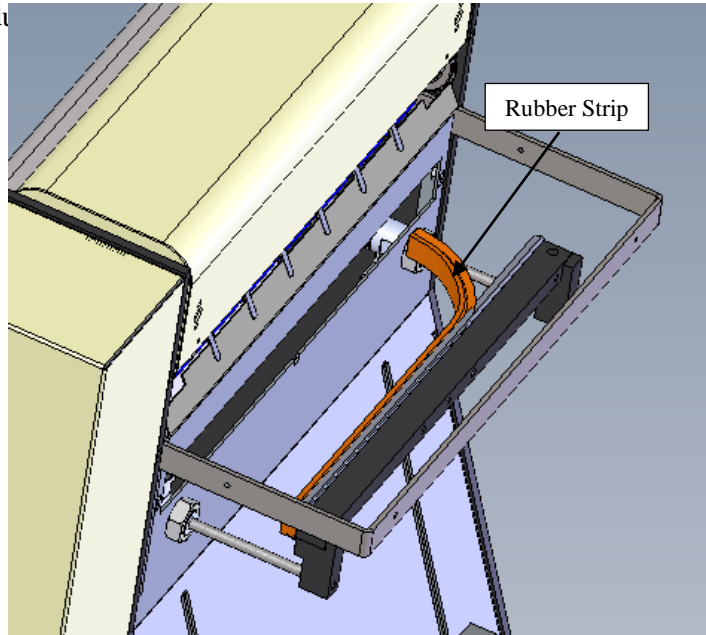


Figure 4-1

**CAUTION:** Metal housing for rubber strip has sharp corners and sharp edges. When rubber is removed, carefully clean slot with a thick cloth not allowing contact with fingers or hands.

## 4.3 PTFE Spool Advancement

PTFE will wear with continued use and prematurely tear if contacting the product when sealing. If the PTFE wears or tears affecting the seals, the PTFE can be advanced to bring new material in the seal area. To advance the PTFE, insert a small flathead (common) screwdriver into the bottom 1/4" hole located on the right side panel of the unit. When you feel the screwdriver enter into the slot of the PTFE rod, turn the screwdriver counterclockwise to advance new material into position.

After turning new PTFE into position, turn the rod clockwise slightly so that there is very little tension on the ptf sheet.

*NOTE: If the PTFE is too tight (too much tension), the sheet may tear during the seal operation.*

**CAUTION:** The following maintenance procedures should only be performed by trained and qualified maintenance technicians.

## 4.4 PTFE Sheet Replacement

When the PTFE sheet has been exhausted, it will become loose from the upper rod and will require replacement. There are three phases when replacing the PTFE, Phase 1: Disassembling parts of the machine to get to the PTFE Bracket, Phase 2: Changing the [TFE, and Phase 3: Reassembling the

machine parts taken off to get to the bracket. Use Figure 4-2, Figure 4-3, and the Heater Bar Assembly drawing in 5.4 with the following instructions. Call APPI (800)754-4403 and ask for Service if additional help is needed.

Phase 1:

1. Remove air from the unit, turn the T-275 power “OFF” and unplug the power cord.
2. Remove Stainless Steel Cover from back of machine.
3. Lift the funnel assembly and top cover upward.
4. Remove four screws from the guard assembly and remove the Lexan guard, see Figure 4-2.
5. Allow the sealer mechanism to cool for at least 30 minutes.

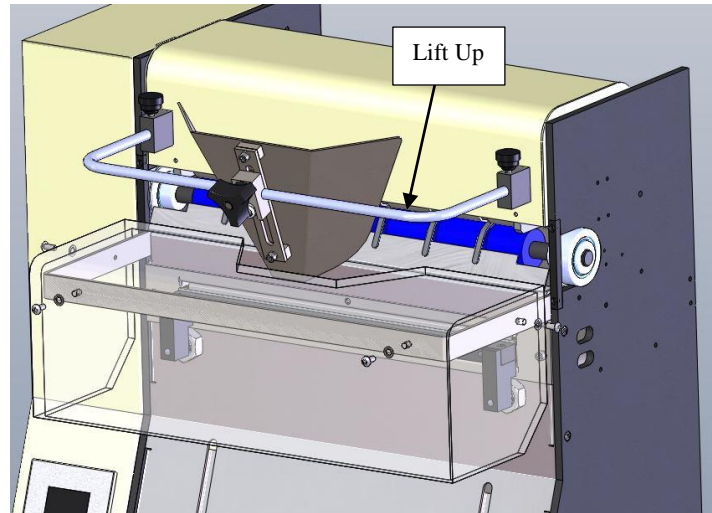


Figure 4-2

6. Remove the two shoulder bolts from the pressure bar (Figure 4-3).
7. Remove the Pressure bar and turn down the black pressure bar blocks (Figure 4-3).
8. Remove the two screws located on the right and left side of the seal bar which hold the seal assembly mechanism in place (Figure 4-3).

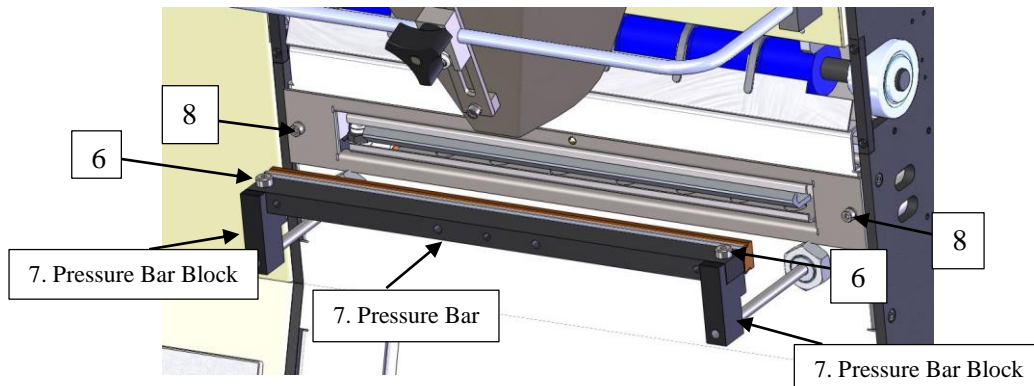


Figure 4-3

9. From the Back, unplug the left and right side Anti-Jam Sensors, disconnect the Thermocouple, and the left and right Heater Cartridge connectors.
10. From the front, pull one side (right or left side) of the seal assembly out from the front plate. Since the seal assembly is tight, some maneuvering may be required to remove the assembly from the machine, see To avoid damage to components or wiring, do not force the assembly.

Phase 2: (refer to 5.4 Heater Bar Assembly)

11. Remove the two springs holding the shafts together.

12. Remove the Socket Head Bolt and Nut on Each side of the Heater Plate.
13. Remove PTFE Shafts and PTFE Sheet.
14. Clean the adhesive from both shafts.
15. Separate the two shafts.
16. Lay one Shaft on the top of the PTFE Sheet and measure from the edge of the PTFE Sheet to the edge of the Shaft. Ensure the PTFE Sheet is in the center of the Shaft.
17. Wrap a piece of tape on the Shaft at the edge of the PTFE.
18. Take the second Shaft, lay the first Shaft next to it and wrap tape around the end of the second Shaft in exactly the same place as the first. Keep the taped ends on the same side of the PTFE Sheet.
19. Remove the adhesive backing from one end of the PTFE Sheet.
20. Align one Shaft parallel to the PTFE Sheet with the taped end of the Shaft meeting up with the edge of the PTFE Sheet. Once the shaft is in position, lower onto adhesive side of the PTFE Sheet.
21. Roll the Shaft until you reach the end of the adhesive part.
22. Repeat with the other Shaft, ensuring the taped ends are on the same side. Once the PTFE Sheet has been rolled over the Shafts, the tape may be removed.
23. Lay Heater Plate on a flat surface so the side plates stick up. Lay PTFE sheet over the Heater Plate so that the shafts are parallel to the plate and the PTFE will roll on the outside of the shaft when reattached.
24. Place the Heater Bar on top of the PTFE sheet so that it fits through the rectangle window through the Heater Plate. The PTFE will be between the Heater Plate and Heater Bar.
25. Replace the 2 socket head bolts and nuts.
26. Replace PTFE Shafts and springs.

#### Phase 3:

27. Slide Heater Bar Assembly back in.  
**CAUTION: When facing the T-275, the motor is on the left side. When reinserting the Heater Bar Assembly use caution not to bump the motor as it will dislocate the Anti-Jam Circuit Board.**
28. Replace and tighten socket head bolts.
29. Reinstall Pressure Bar.
30. Put a light film of grease on Shoulder Bolts and tighten.
31. Attach Lexan Cover
32. Connect Thermal Couple
33. Reconnect right and left Heater Bar Connectors.
34. Reconnect both Heater Bar Sensors
35. Replace Stainless Cover.

## 4.5 Heater Cartridge Replacement

Since the heater element is a normal wear item, it will require replacement when burned out. Heater element and heater bar life span may be increased by timely adjustment of PTFE. If the heater bar does not come to temperature fully or does not heat whatsoever, the heater cartridge must be replaced. Follow these procedures to replace the element:

1. Remove air from the unit, turn the T-275 power “OFF” and unplug the power cord.
2. Lift the funnel assembly and top cover upward.
3. Remove four screws from the guard assembly and remove the Lexan guard.
4. Allow the sealer mechanism to cool for at least 20 minutes.

5. Remove the two screws located on the right and left side of the seal bar which hold the seal assembly mechanism in place.
6. Pull one side (right or left side) of the seal assembly out from the front plate. Since the seal assembly is tight, some maneuvering may be required to remove the assembly from the machine. To avoid damage to components or wiring, do not force the assembly.
7. Disconnect the two wire connectors and remove the complete assembly.
8. Wind all of the PTFE onto the upper rod and disconnect the PTFE from the lower rod.
9. Unclip the springs from the rods and remove both rods.
10. Loosen the screws that hold the heater bar top and bottom plate together.
11. Slide the heater cartridge from the assembly.
12. If the heater cartridge does not break loose, remove the screws entirely and dismantle the heater bar.
13. Install the new heater cartridge, and reassemble the heater bar.
14. Reattach the heater bar to the front plate assembly with four screws.
15. Reinstall the PTFE rods and re-thread the PTFE around the spring loaded “U” PTFE shield and reattach the PTFE sheet to the upper rod so that the sheet end is parallel. Wind the PTFE onto the upper rod ensuring that it is evenly and tightly wound.
16. Reattach the springs in the grooves on the rods.
17. Turn the PTFE at least two wraps onto the bottom rod.
18. Reconnect the wire connectors and install the heater bar ensuring that the full PTFE rod is positioned.

## 4.6 Description of Anti-Jam Circuit

The anti-jam mechanism decreases the possibility of damage to the T-275 if product or other objects are in the seal area. The operation of the anti-jam circuit should be tested prior to production on a daily basis. Although the anti-jam unit may also prevent or decrease the opportunity for injuries during the sealing or heating operation, the anti-jam is not designed as a safety device. If not adjusted properly, damage may result from obstructions in the seal area or personal injury may result from fingers or hands being in the seal area when sealing.

If properly adjusted, a jam is detected when: 1) the rubber pressure strip does not contact the PTFE at one or both sides of the PTFE shield or 2) the spring-loaded PTFE shield is pressed prior to the rubber pressure strip contacting the PTFE shield. If either of these conditions exist, the pressure sea

## 4.7 Anti-Jam Adjustments / Testing

The anti-jam mechanism consists of: 1) two cylinder magnetic switches which detects the cylinder position and 2) two photo sensors that detect the spring-loaded PTFE Shield “U” channel position. If the anti-jam circuit is not functioning properly, follow these procedures to test and/or adjust the anti-jam components:

1. Disconnect the Air Supply from the machine, located on the panel just above the power cord.
2. Remove the Stainless Back Cover by removing the Screw on each side.
3. Go to the **Main Menu** and press **Tech Assist**, then press **PLC I/O**.
4. On the front of the T-275, push the Pressure Bar in until it just touches the front plate.
5. On the PLC I/O Screen, X2 and X4 should be illuminated. If they are, continue to step 7. If they are not, follow the next instructions.
6. One at a time, loosen the switch on each of the air cylinders and move it forward and aft until X2 or X4 turn on. Adjust each side so both X2 and X4 are on, then tighten. See Figure 4-4 for Left

Air Cylinder and Figure 4-5 for Right Air Cylinder.

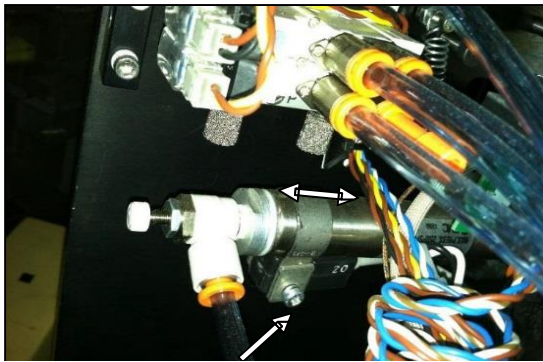


Figure 4-4

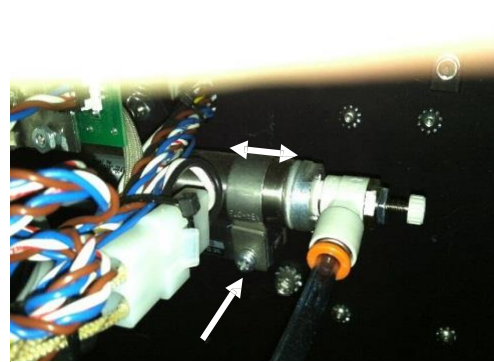


Figure 4-5

7. Now push the Pressure Bar all the way in, see Figure 4-6. The X6 and X7 LEDs should be illuminated on the PLC I/O screen. If one or both lights do not illuminate, test each side individually by following these next steps.



Figure 4-6



Figure 4-7

8. Release the Pressure Bar and apply pressure to only the left side of the heater bar, (Figure 4-7). Pressing it in all the way in, X6 should illuminate. Release and repeat to the Right side, X7 should illuminate.
9. If one side does not turn on, you may have a bad connector, a bad Anti Jam Circuit Board, or the Sensor may need to be adjusted. To check the Actuator Sensor and determine which of these issues you need to address, locate the Anti-Jam Circuit Boards and “Pig Tail” Connectors (TP-T8ME0161-1) on the backside of the T-275. See Figure 4-8 and Figure 4-9.

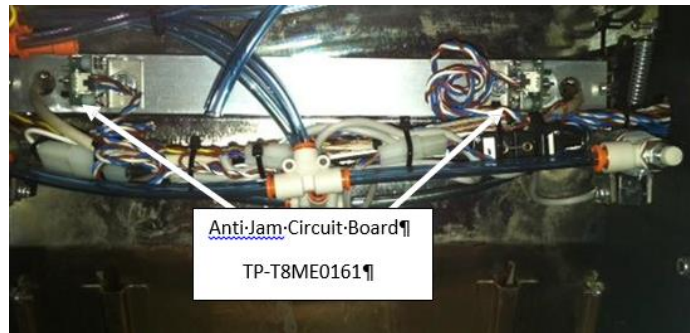


Figure 4-8



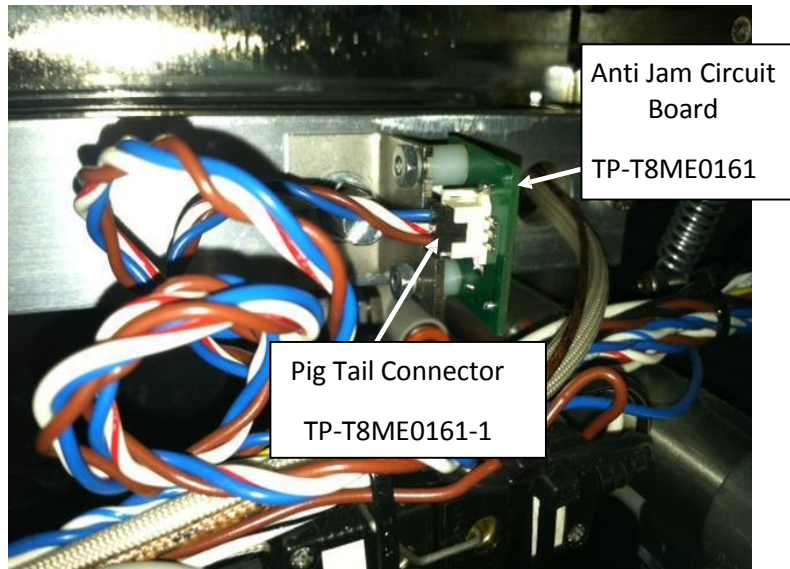


Figure 4-9

- To check the Sensors and the Actuator on the Anti-Jam Circuit Board (as shown in Figure 4-10), place a small Screw driver between the two Sensors (Figure 4-11), breaking the beam that is projected, causing X6 (left side) or X7 (right side) to illuminate on the PLC I/O screen. If X6 or X7 does turn on when placing the Screw Driver between the Sensors, you need to adjust the Anti-Jam Circuit Board (Step 11). If the LEDs still do not illuminate, continue on to step 13.

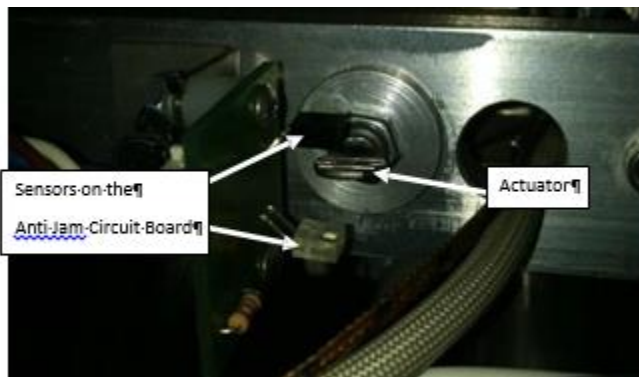


Figure 4-10

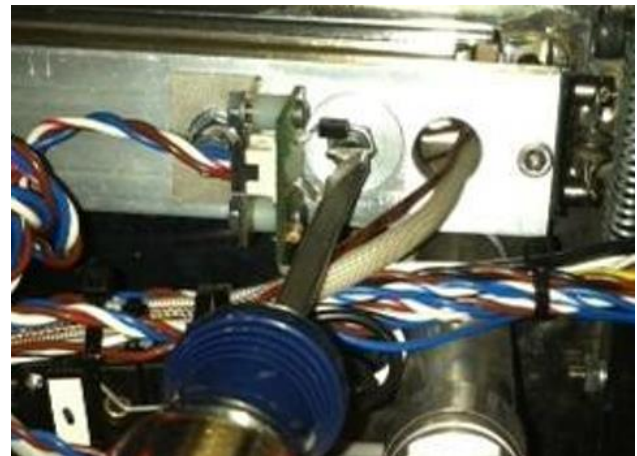


Figure 4-11

- While one person pushes in the Pressure Bar all the way, the other person will loosen the two Lock Nuts holding the Circuit Board to the Anti-Jam Mounting Bracket, see Figure 4-12.



Figure 4-12

12. While one person continues to hold the Pressure Bar all the way in, the other person will move the Anti-Jam Circuit Board back and forth (Figure 4-13) until X6 or X7 turns on. Tighten the two Lock Nuts holding Circuit Board to the Bracket. If X6 or X7 did not turn on while doing this procedure, go to the next step.

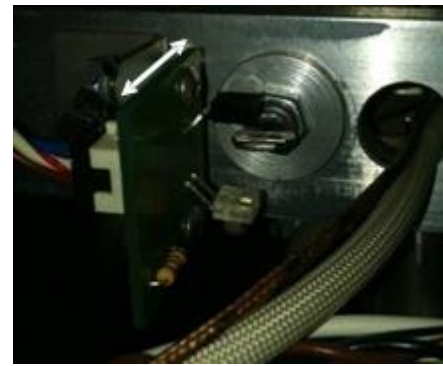


Figure 4-13

13. Unplug both Pig Tail Connectors, plug the Right Pig Tail into the Left Anti Jam Circuit Board and plug the Left Pig Tail into the Right Anti Jam Circuit Board. See Figure 4-14.

14. Reconnect the air supply to the bagger, turn power on.

Now cycle the bagger.

Did the Heater Bar Sensor Error go to the other side?

If it did then your Pig Tail

is bad, Call Advanced

Poly for a new Pig Tail,

Anti Jam, part number

TP-T8ME0161-1. If the

Error did not change sides

then you need a new Anti-

Jam Circuit Board, part

number TP-T8ME0161.

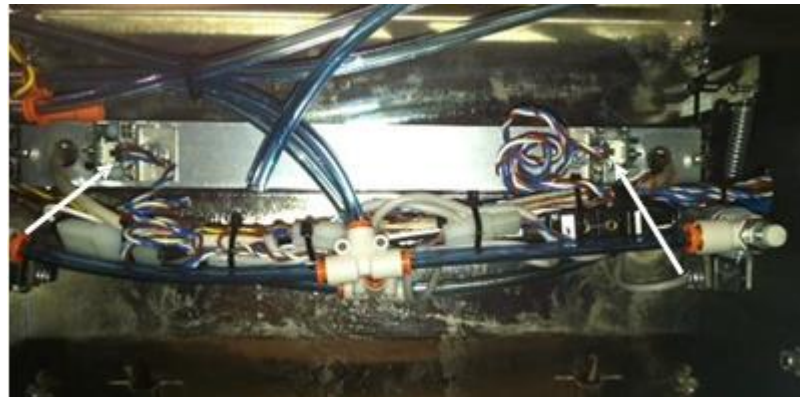


Figure 4-14

If you need further help,

please call the Service Department at Advanced Poly Packaging, (800) 754-4403.

## 4.8 Preventative Maintenance

The following maintenance items should be performed by the operator or maintenance personnel to prolong the life of the equipment. Failure to perform these tasks may result in premature wear, personal injury or equipment damage.

Item:	Description:	Frequency:
Anti-jam	Test anti-jam prior to production	Daily
Pressure	Check air pressure to ensure 60-70 PSI	Daily
PTFE	Inspect for wear / holes, turn 1/4" if required	Daily
Rollers	Clean with Isopropyl Alcohol	Daily
Perf Sensor	Clean with Isopropyl Alcohol	Daily
Rubber Strip	Clean rubber strip with Isopropyl Alcohol	Weekly
Pressure Bar	Remove air and push in manually to ensure free movement with no binding	Weekly
Springs	Inspect for cracks in springs, ensure free movement	Monthly
Wiring	Ensure no loose contacts or worn shielding	Monthly
Fasteners	Tighten mounting bolts and fasteners	Monthly
Blower filter	Clean/replace if air flow decreases	Monthly
Electronics	Remove covers and blow out compartments	Monthly



## 4.9 Recommended Spare Parts List

The following spare parts are recommended for your inventory which include components which can easily be replaced. These items are either wear items or other components which may fail during the day-to-day operation of the machine.

### TO-T8-SP30 T-275 Spare Parts Kit (Level 1)

Part Number	Description	Qty
TP-T8MA00140	Seal Bar Rubber Strip	1
TP-T8MA00130	PTFE Sheet	2
TP-207732	Fuse 6 amp	1
TP-217117	Heater Cartridge (400W)	1
TP-221416	Thermocouple Wire	1
TP-404628	1/4" blue tubing	5
TP-406181	4 Micron Filter	1
TP-112300	Rubber Feet	4
TP-402255	Valve	1
TP-108157	Ext. Spring Dancer brake strap	2
TP-403008	Cylinder	1
TP-503102	Belt Motor	1

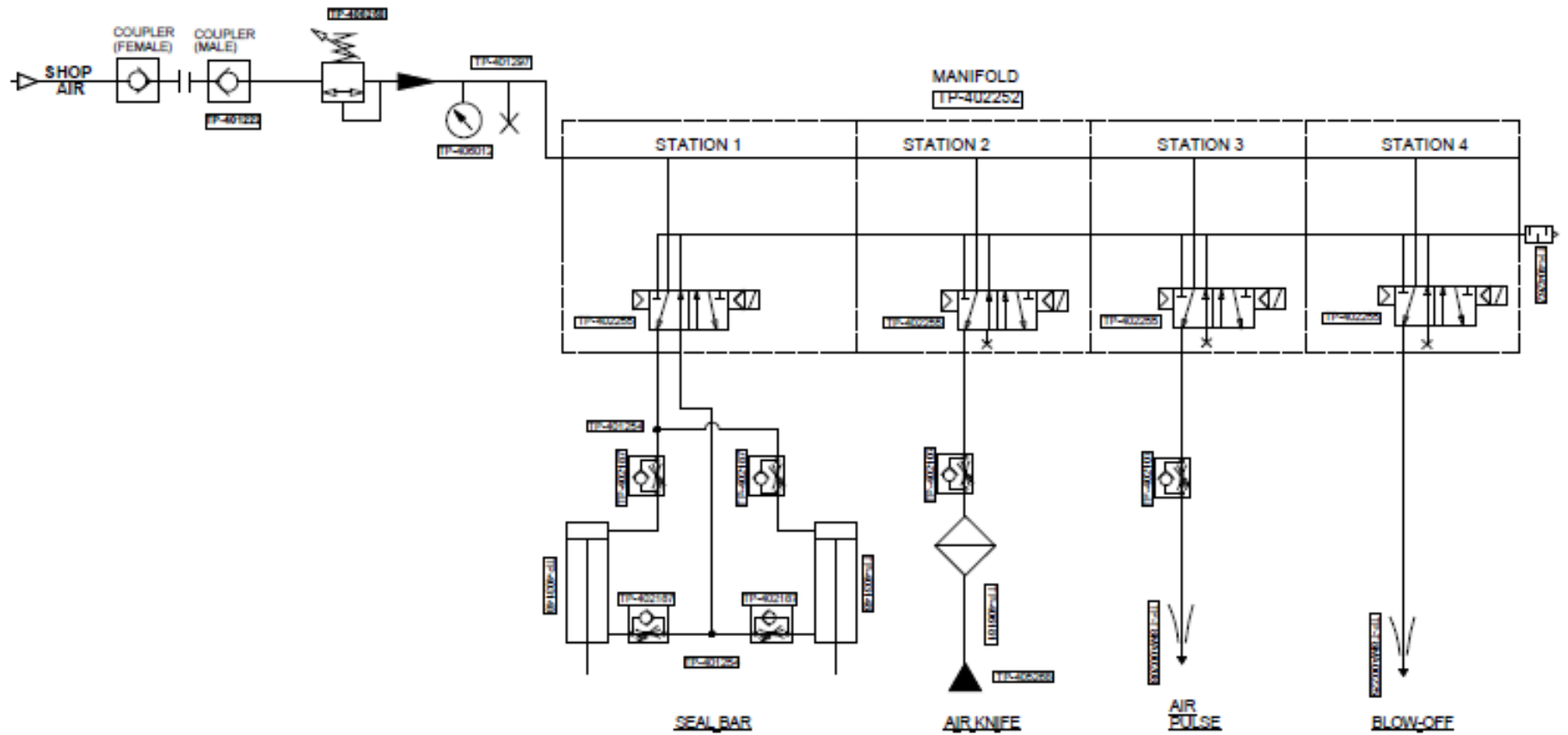
## 4.10 Electrical and Pneumatic Drawing

Refer to Dwg #T3-00164 for Pneumatics diagram.

Refer to Dwg #T275Elec-0 for Wiring Diagram

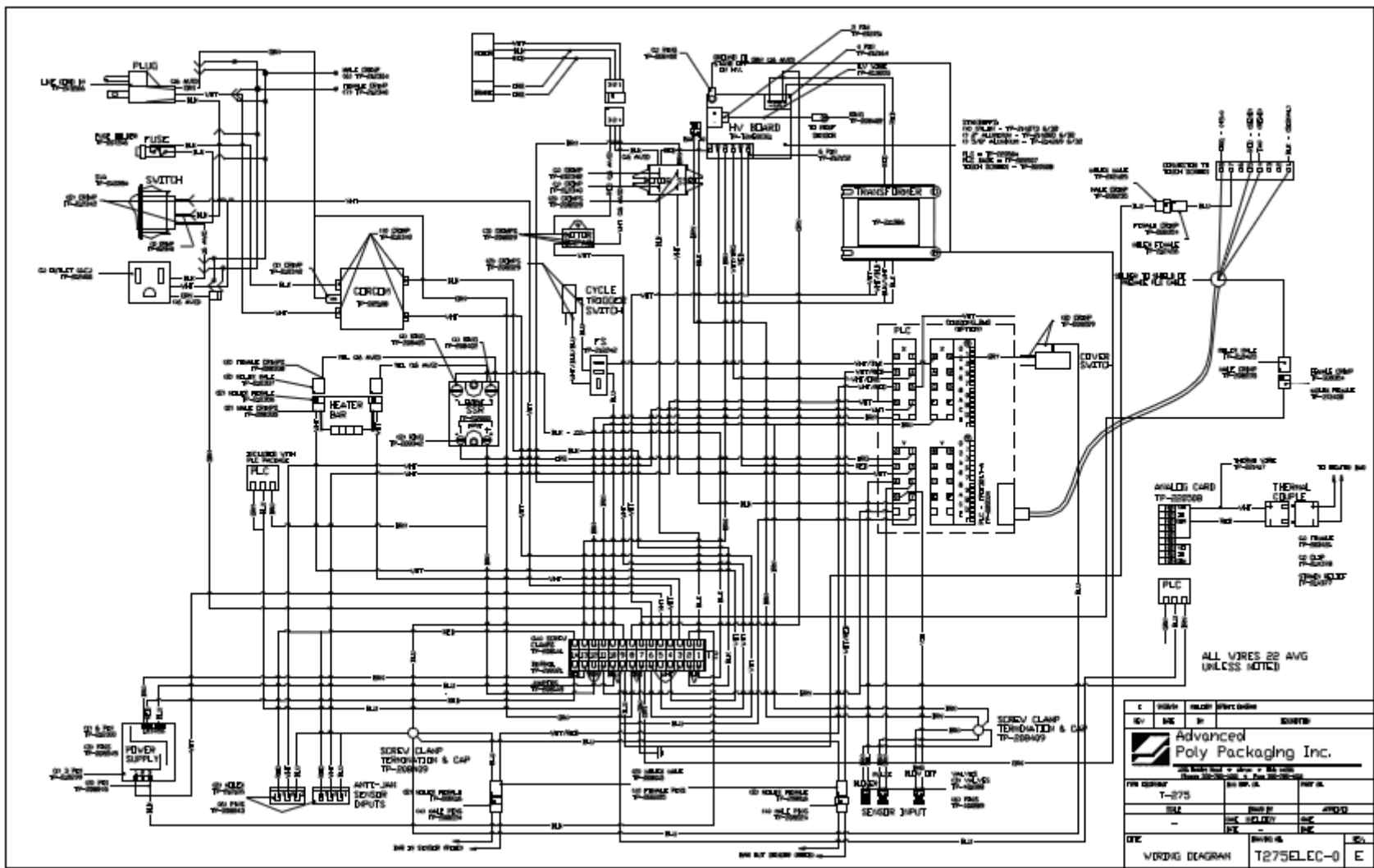
# Pneumatic Diagram

T3-00164



# Wiring Diagram

## T275Elec-0



This page intentionally left blank.

# Chapter 5: Parts

---

T-T275 Tabletop Bagger System Layout

Electronics Assembly

Mechanical Assembly

Heater Bar Assembly

## 5. Parts / Component Identification

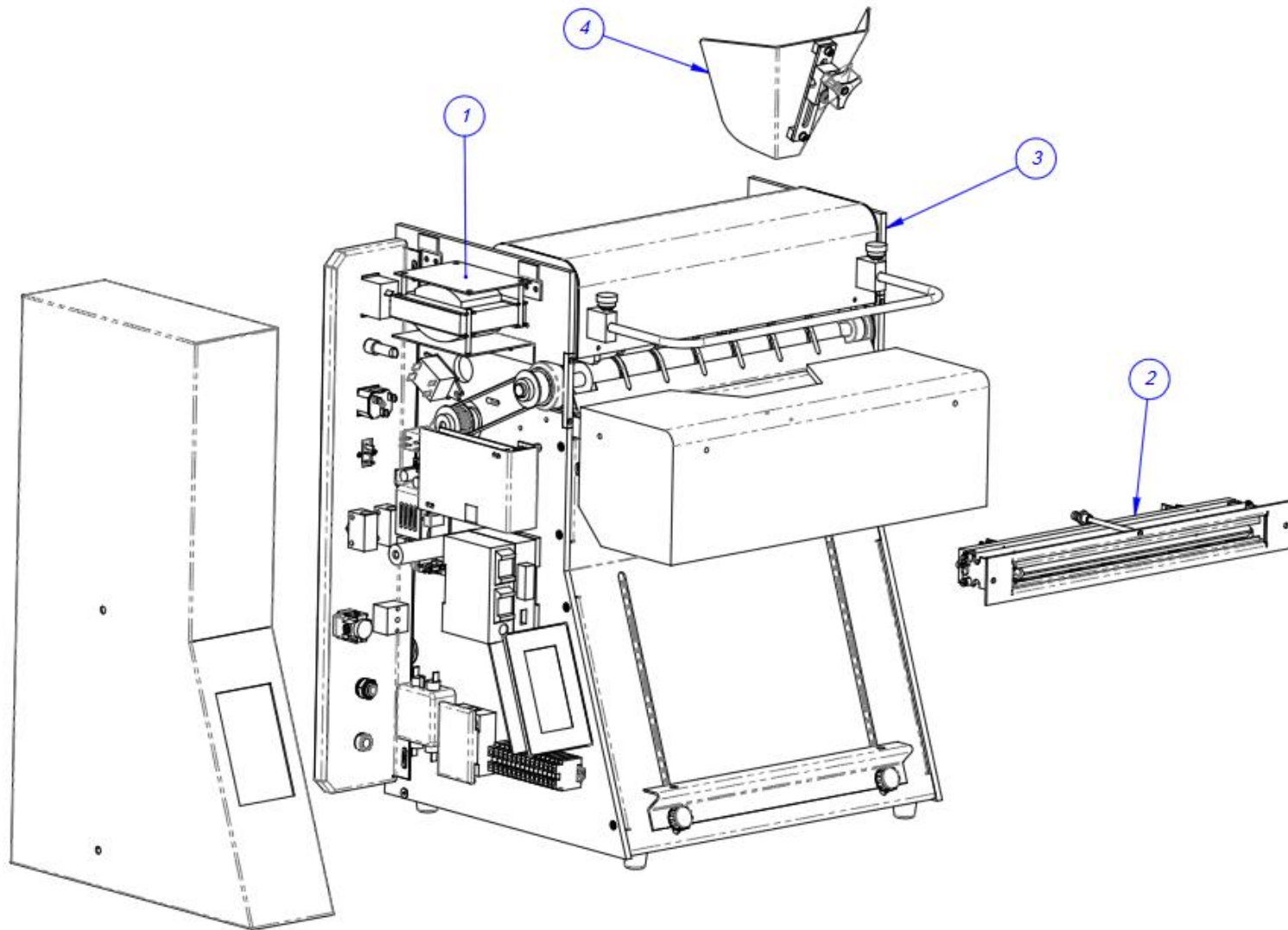
This section includes assembly drawings of the T-275. Please use APPI part numbers whenever possible to order replacement parts. You can also refer to Drawing Numbers and Corresponding Item Numbers on the drawings to assist in determining the required components.

### 5.1 T-T275 Tabletop Bagger System Layout

ITEM NO.	QTY.	PartNo	DESCRIPTION
1	1	TA-T7-1000	ELECTRONICS ASSEMBLY
2	1	TA-T6-2000	HEATER BAR ASSEMBLY
3	1	TA-T7-4000	MECHANICAL ASSEMBLY
4	1	TA-T8-9000	FUNNEL ASSEMBLY

# T-275 Tabletop Bagger

PN: T-T275 System Layout



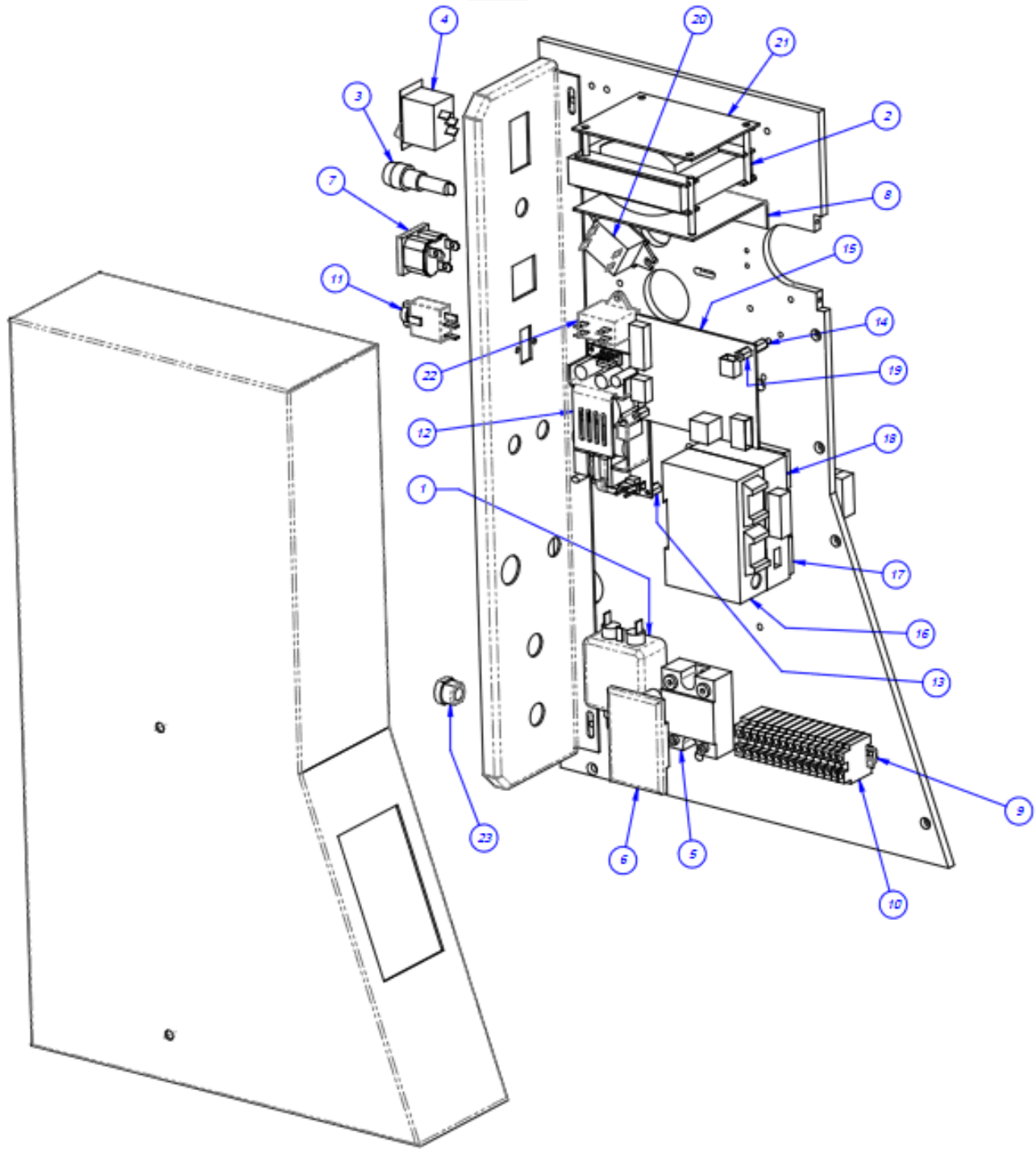
## 5.2 Electronics Assembly

PN: TA-T7-1000

ITEM NO.	QTY.	PART NO	DESCRIPTION
1	1	TP-205108	EMI FILTER, CORCOM
2	1	TP-211386	TRANSFORMER
3	1	TP-207216	FUSE HOLDER
4	1	TP-215384	POWER SWITCH, NO LONGER USED
5	1	TP-215000	SOLID STATE RELAY
6	1	TP-215000A	COVER
7	1	TP-212410	AC OUTLET
8	1	TP-T8MA00191	MOUNTING BRACKET, TRANSFORMER
9	1	TP-218021	DIN RAIL
10	15	TP- 208142	LARGE TERMINAL BLOCK
11	1	TP-212243-1	Foot switch jumper plug
12	1	TP- 213361	24VDC, 3AMP POWER SUPPLY
13	4	TP-214268	STAND-OFF .38"
14	2	TP-214269	STAND-OFF, HEX M/F 5/8
15	1	TP-T1ME00301	HIGH VOLTAGE BOARD
16	1	TP-220504	PLC, FPO-E32T-A Expansion I/O
17	1	TP-220507	PLC BASE
18	1	TP-220508	PLC ANOLOG MODULE
19	2	TP-214278	STEEL 3/8 MALE/FEMALE 6-32
20	1	TP-215003	SOLID STATE RELAY
21	1	HP-58243A1	HEAT SHEILD
22	1	TP-501162	MOTOR CAP
23	1	TP-112240	POWER CORD STRAIN RELIEF
24	1	TP-215115	AUX RELAY
25	1	TP-215116	RELAY SOCKET



Electronics Assembly  
PN: TA-T7-1000



## 5.3 Mechanical Assembly

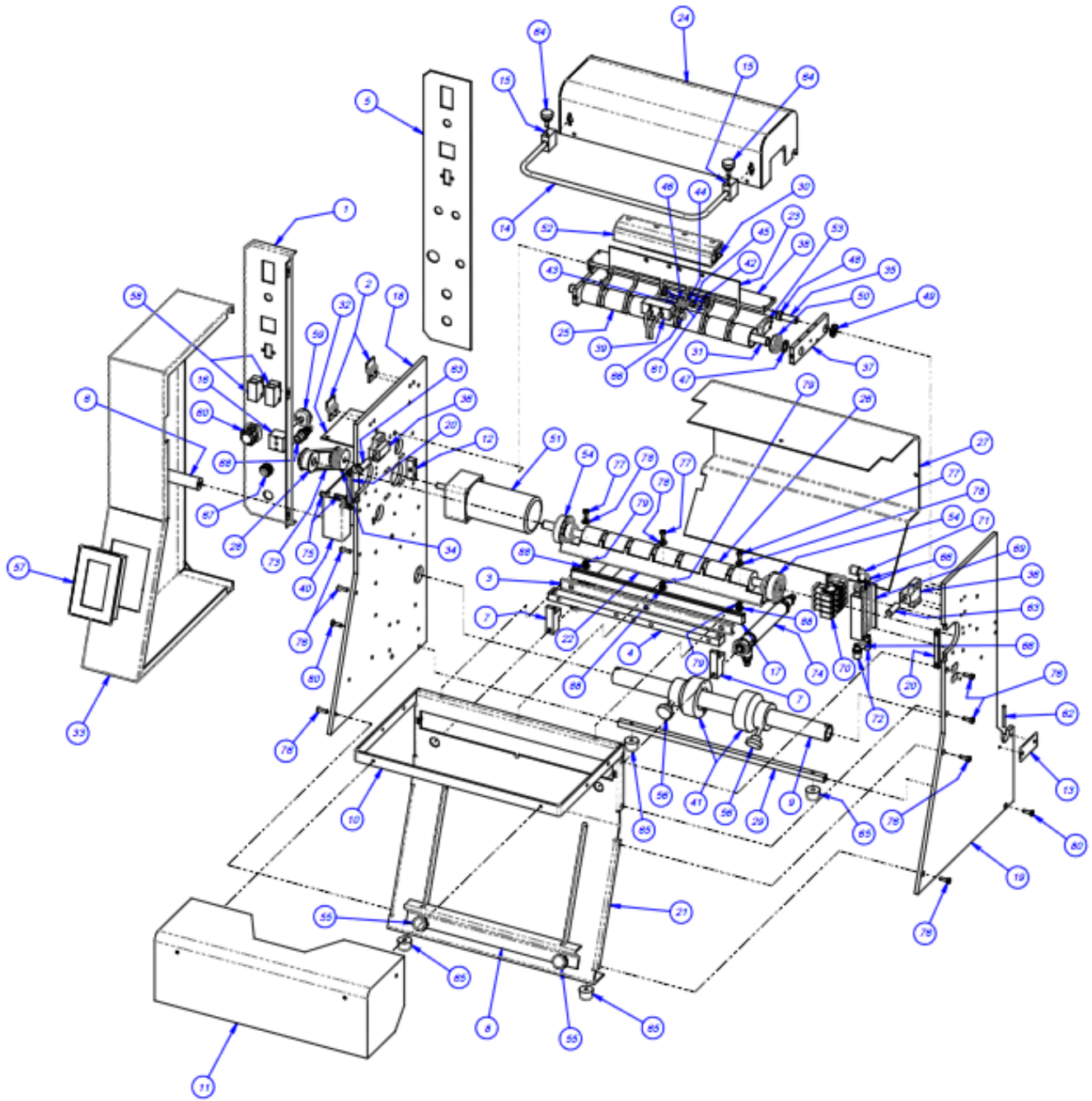
PN: TA-T7-4000

ITEM NO.	QTY.	PART NO	DESCRIPTION
1	1	TP-T8MA00103	ELECTRONICS PANEL
2	2	TP-T8MA00108	COVER HANGER
3	1	TP-T8MA00109	RUBBER STRIP HOLDER
4	1	TP-T8MA00110	PRESSURE BAR HOLDER
5	1	TP-T8MA00111	BACK PANEL TEMPLATE
6	1	TP-T8MA00115	STANDOFF
7	2	TP-T8MA00118	SEALER BLOCK
8	1	TP-T8MA00126	LOAD SHELF
9	1	TP-T8MA00127	BAG ROLL SHAFT
10	1	TP-T8MA00128	GUARD MOUNT
11	1	TP-T8MA00129	LEXAN GUARD
12	2	TP-T8MA00131	COVER MOUNT
13	1	TP-T8MA00132	ROLLER STOP
14	1	TP-T8MA00136	FUNNEL MOUNT
15	2	TP-T8MA00138	ROD MOUNTS
16	1	TP-T8MA00139	REGULATOR MOUNT
17	1	TP-T8MA00140	RUBBER STRIP
18	1	TP-T8MA00174	8.253LEFT SIDE PLATE
19	1	TP-T8MA00175	RIGHT SIDE PLATE
20	2	TP-T8MA00176	BEARING KEEPER
21	1	TP-T8MA00177	FRONT PLATE
22	1	TP-T8MA00178	EXIT PLATE
23	1	TP-T8MA00179	FINGER PLATE
24	1	TP-T8MA00180	BLOWER HOUSING
25	1	TP-T8MA00182	STEEL BACK-UP ROLL
26	1	TP-T8MA00183	RUBBER DRIVEN ROLLER
27	1	TP-T8MA00184	COVER
28	1	TP-T8MA00185	Martin Gear XL Timing Pulley
29	1	TP-T8MA00186	LOWER BRACE
30	1	TP-T9MA00187	MOUNTING PLATE
31	1	TP-T8MA00190	Shaft back up roll
32	1	TP-T8MA00191	MOUNTING BRACKET, TRANSFORMER
33	1	TPT8MA00192	SIDE COVER
34	1	TP-T8MA00194	Martin Gear XL Timing Pulley
35	1	TP-T8MA00201	PIVOT SHAFT
36	2	TP-T8MA00204	LATCH BODY
37	2	TP-T8MA00205	SIDE PLATE, BACKUP ROLL
38	1	TP-T8MA00207	CROSS BRACE
39	1	TP-T8MA00208	AIR PLUSE TUBE MANIFOLD
40	1	TP-T8MA00209	HIGH VOLT COVER BRACKET

ITEM NO.	QTY.	PART NO	DESCRIPTION
41	2	TP- T1MA00049	FILM TENSION HUB
42	1	TP-T1MC00083	Insulator (High Voltage Sensor)
43	1	TP-T1MC00124-1	HV TANG
44	1	TP-T1MC00124-3	HV SENSOR MOUNT
45	1	TP-106214	COTTER PIN
46	1	TP-108118	TORSION SPRING
47	2	TP-107340	THRUST BEARING
48	2	TP-107341	3/8" ID x 1/2" OD x 0.25 LONG
49	2	TP-107342	3/8 ID x 3/4 OD x 1/8 THK.
50	2	TP-504107	1/2" I.D. BEARING
51	1	TP-501162	unwind motor
52	1	TP-405268	Air Knife Venturi
53	1	TP-215022	Limit Switch
54	2	TP-504114	BEARING
55	2	TP-109152	KNOB
56	2	TP-109212	1/4-20 x 1.00" THREADED KNOB
57	1	TP-220356	TOUCH SCREEN
58	2	TP-402107	FLOW CONTROL VALVE
59	1	TP-406012	THREADED GAUGE
60	1	TP-406258	MINI REGULATOR
61	2	TP-214277	NYLON 3/4" #6-32
62	1	TP-106126	SPRING PIN
63	2	TP-108220	SPRING PLUNGER
64	2	TP-109213	Threaded knob, #10-32 X 7/16 stud
65	4	TP-112300	RUBBER TAPERED BUMPER
66	4	TP-401134	HEX PLUG
67	1	TP-401253	BULKHEAD CONNECTOR
68	1	TP-401222	QUICK CONNECT NIPPLE
69	1	TP-402252	5 STATION MANIFOLD
70	4	TP-402255	VALVE
71	1	TP-401257	ELBOW, 1/4" TUBE x 1/8 NPT
72	2	TP-404262	MUFFLER
73	1	TP-503102	BRAKE BELT
74	2	TP-403148	AIR CYLINDER
75	2	TP- 214285	STAND-OFF 1-1/2" LONG 6-32
76	8	TP-103116	Screw, SHCS 8-32 x 1/2 S.S.
77	3	TP-103015	Screw, SHCS 8-32 x 3/8
78	3	TP-102133	Washer, #8 FLAT
79	3	TP-102153	Washer, #8 LOCK
80	2	TP-103395	Screw, #8-32 x 5/8 FHCS
88	3	TP-101103	Nut, #8-32 MACHINE

# Mechanical Assembly

PN: TA-T7-4000



## 5.4 Heater Bar Assembly

PN: TA-T8-2000

ITEM NO.	QTY.	PART NO	DESCRIPTION
1	1	TP-T8MA00121-5	HEATER PLATE & BRACKET SUB- ASS'Y.
2	1	TP-T8MA00112-1	BRACE
3	2	TP-T8MA00226	PHOTO EYE BRACKET
4	1	TP-T8MA00199	ANTI-JAM
5	1	TP-T8MA00202	SEAL BAR
6	2	TP-T8ME0161	ANTI JAM SENSOR BOARD ASSY
7	2	TP-T8MA00227	HEATER BAR SLIDE
8	2	TP-109210	THUMB SCREW
9	4	TP-104135	STANDOFF, NYLON SPACER
10	2	TP-T8MA00124	PTFE SHAFT
11	2	TP-101103	SAE NUTS
12	2	TP- T8MA00231	ROUND UNIT SPACER
13	2	TP- 108099	COMPRESSION SPRING, .040 GUAGE, .359 OD.
14	2	TP-108153	EXTENSION SPRING
15	1	TP-T8MA00225	BLOW OFF TUBE
16	1	TP-221416	THERMOCOUPLE WIRE
17	3	TP-102154	Washer, #10 LOCK
18	3	TP-103212	Screw, BHCS 8-32 x 1/2 S.S.
19	2	TP-102134	Washer, #10 FLAT
20	2	TP-103468	#10-32 x2-1/2 HEX BOLT
21	4	TP-102153	Washer, #8 LOCK
22	2	TP-103117	Screw, SHCS 8-32 x 3/4
23	2	TP-101103	Nut, #8-32 HEX
24	4	TP-102131	Washer, #4 FLAT
25	4	TP-102151	Washer, #4 LOCK
26	4	TP-103197	Screw, BHCS 4-40 x 5/8 S.S.
27	4	TP-101101	Nut, #4-40 MACHINE

# Heater Bar Assembly

PN: TA-T8-2000

TEFLON SHEET (PART #TP-T8MA00130)

