

The logo graphic consists of a series of parallel, slightly curved lines in a light green color, forming a triangular shape that points downwards. The lines are more densely packed in the center and become more sparse towards the edges.

METTLER TOLEDO

645

SOLO™ Plus

SOLO™ XL

Wrapper

User's Guide

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METTLER TOLEDO

Publication Revision History

An overview of this manual's revision history is compiled below.

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Part Number	Date	Revisions
C14893900A	9/97	Replaced Dimensional Drawings. Page 3-1 added Static Dissipation String to drawing. Page 3-4 Removed Program 05 and corrected temp setting. Page 3-6 Added Static Dissipation String. Page 3-9 removed Program 05. Pages 4-4 to 4-5 removed codes 02, 90-95, 96-98. Revised warning labels.

FCC Notice

This device complies with Part 15 of the FCC Rules and the Radio Interference Requirements of the Canadian Department of Communications. Operation is subject to the following conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

**METTLER TOLEDO RESERVES THE RIGHT TO MAKE REFINEMENTS OR
CHANGES WITHOUT NOTICE.**

PRECAUTIONS

READ this manual BEFORE operating or servicing this equipment.

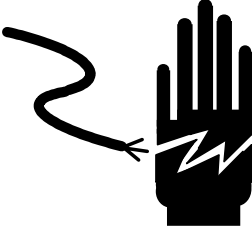
FOLLOW these instructions carefully.

SAVE this manual for future reference.

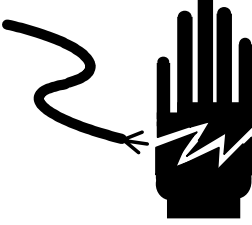

DO NOT allow untrained personnel to operate, clean, inspect, maintain, service, or tamper with this equipment.

ALWAYS DISCONNECT this equipment from the power source before cleaning or performing maintenance.

CALL METTLER TOLEDO for parts, information, and service.

	 WARNING
	ONLY PERMIT QUALIFIED PERSONNEL TO SERVICE THIS EQUIPMENT. EXERCISE CARE WHEN MAKING CHECKS, TESTS AND ADJUSTMENTS THAT MUST BE MADE WITH POWER ON. FAILING TO OBSERVE THESE PRECAUTIONS CAN RESULT IN BODILY HARM.

	 WARNING
	FOR CONTINUED PROTECTION AGAINST SHOCK HAZARD CONNECT TO PROPERLY GROUNDED OUTLET ONLY. DO NOT REMOVE THE GROUND PRONG.

	 WARNING
	DISCONNECT ALL POWER TO THIS UNIT BEFORE REMOVING THE FUSE OR SERVICING.

 CAUTION
BEFORE CONNECTING/DISCONNECTING ANY INTERNAL ELECTRONIC COMPONENTS OR INTERCONNECTING WIRING BETWEEN ELECTRONIC EQUIPMENT ALWAYS REMOVE POWER AND WAIT AT LEAST THIRTY (30) SECONDS BEFORE ANY CONNECTIONS OR DISCONNECTIONS ARE MADE. FAILURE TO OBSERVE THESE PRECAUTIONS COULD RESULT IN DAMAGE TO OR DESTRUCTION OF THE EQUIPMENT OR BODILY HARM.

 CAUTION
OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC SENSITIVE DEVICES.

CONTENTS

1 General Description	1-1
Specifications	1-2
Dimensions - SOLO™ Plus	1-3
Dimensions - SOLO™ XL	1-4
2 Safety Instructions	2-1
Precautions	2-1
Cleaning and Maintenance	2-2
Safety Devices	2-2
3 Operating Instructions	3-1
Component Locator	3-1
Controls	3-2
Wrapper Startup	3-3
Film Roll Installation	3-5
Loading Trays	3-7
Package Wrapping Check	3-9
Idle Time	3-10
Continuous Feeding	3-10
4 Troubleshooting	4-1
Before You Call For Service	4-1
Self Test	4-3
Status Codes	4-4
Circuit Breaker	4-6
5 Maintenance	5-1
Precautions	5-1
Daily Cleaning	5-2
Lubrication	5-4
6 Tray Reference	6-1
SOLO™ Plus Trays	6-1
SOLO™ XL Trays	6-2

1

General Description

The METTLER TOLEDO SOLO™ Model 645 Wrapper is designed to wrap tray-contained products with stretch films. The wrapper is not designed to wrap loose and/or liquid products.

The Model 645 Wrapper is designed for easy operation and to reduce film and labor costs. The Model 645 can be used as a stand alone wrapper, or as part of a complete labeling/wrapping system.

The complete backroom wrapping/labeling system offers dual-label printing capability (dayglo, graphics, data, safe handling, NutriFacts), is very easy to use, and eliminates the need for the operator to change the film size during operation.

Two models are available: the SOLO™ Plus and the SOLO™ XL. The differences in the machines are physical size, the size of film used, and the maximum size of the trays each will wrap. The SOLO™ Plus uses a single 11 inch roll of stretch film, and the SOLO™ XL uses a single 13 inch roll of stretch film to wrap a large variety of tray sizes.

The Model 645 is designed for use in prepackaging backroom environments. This unit is not intended for washdown or hazardous area operation, nor for operation in environments of extreme dust, heat, cold, or humidity.

The Model 645 Wrapper maintains a high quality appearance with durable ABS side covers and a machined-aluminum frame.

Specifications

	SOLO™ Plus	SOLO™ XL
Agency Approvals	ETL Approved Conforms to UL 73 and CSA C22.2	ETL Approved Conforms to UL 73 and CSA C22.2
Noise Level Specifications	Equivalent continuous weighted sound pressure level at the workstation is 74.4 dB. Tests performed in conformance with ISO 3746 Standard (UNI 7712-AFNOR S31-069)	Equivalent continuous weighted sound pressure level at the workstation is 74.4 dB. Tests performed in conformance with ISO 3746 Standard (UNI 7712-AFNOR S31-069)
Footprint	12 sq. ft.	15 sq. ft.
Film size	11 inch	13 inch
Packages Per Minute	22 maximum	20 maximum
Min. tray size: length	120 mm (4.72 in.)	180 mm (7.08 in.)
Min. tray size: width	100 mm (3.93 in.)	130 mm (5.11 in.)
Min. tray size: height	10 mm (0.39 in.)	20 mm (0.78 in.)
Max. tray size: length	350 mm (13.78 in.)	400 mm (15.75 in.)
Max. tray size: width	220 mm (8.66 in.)	260 mm (10.25 in.)
Max. tray size: height	130 mm (5.11 in.)	140 mm (5.50 in.)
Voltage/Amperes	115 VAC/50-60 Hz 30A Supply/2350 VA 208 VAC/50-60 Hz 20A Supply/2350 VA 230 VAC/50-60 Hz/ 20A Supply/2350 VA	115 VAC/50-60 Hz 30A Supply/2350 VA 208 VAC/50-60 Hz 20A Supply/2350 VA 230 VAC/50-60 Hz/ 20A Supply/2350 VA
Internal Operating Voltage	48 VAC	48 VAC
Shipping Weight	515 lb	615 lb
Recommended Operating Temperature Range	40° F to 70° F (5°C to 20°C)	40° F to 70° F (5°C to 70°C)
Humidity	5% to 95% Non-condensing	5% to 95% Non-condensing

Dimensions - SOLO™ Plus

Refer to the Figure 1-1 and 1-2 for the overall length, width, and height of the SOLO™ Plus and SOLO XL Wrappers.

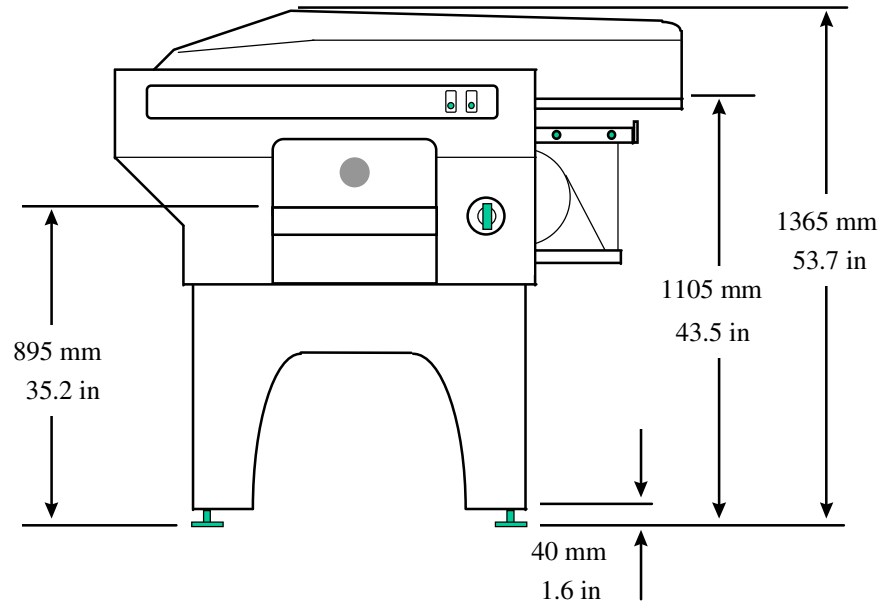


Figure 1-1 SOLO™ Plus Dimensions (Side View)

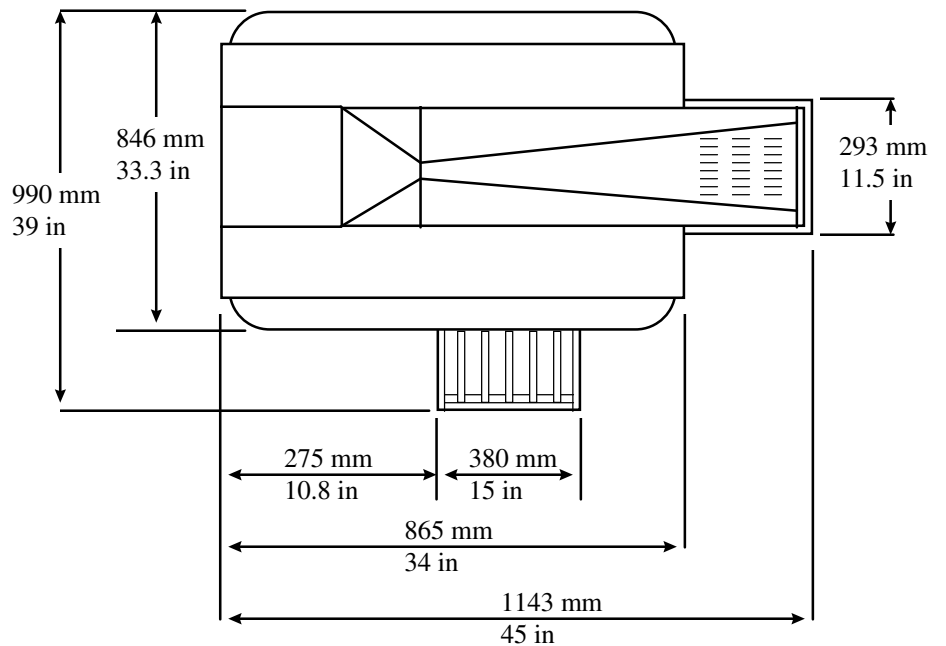


Figure 1-2 SOLO™ Plus Dimensions (Top View)

Dimensions - SOLO™ XL

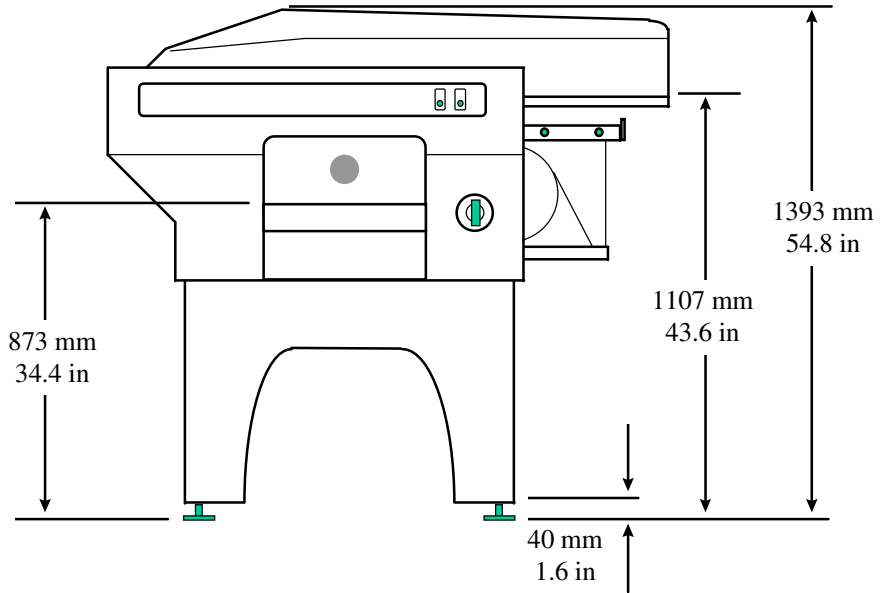


Figure 1-3 SOLO™ XL Dimensions (Side View)

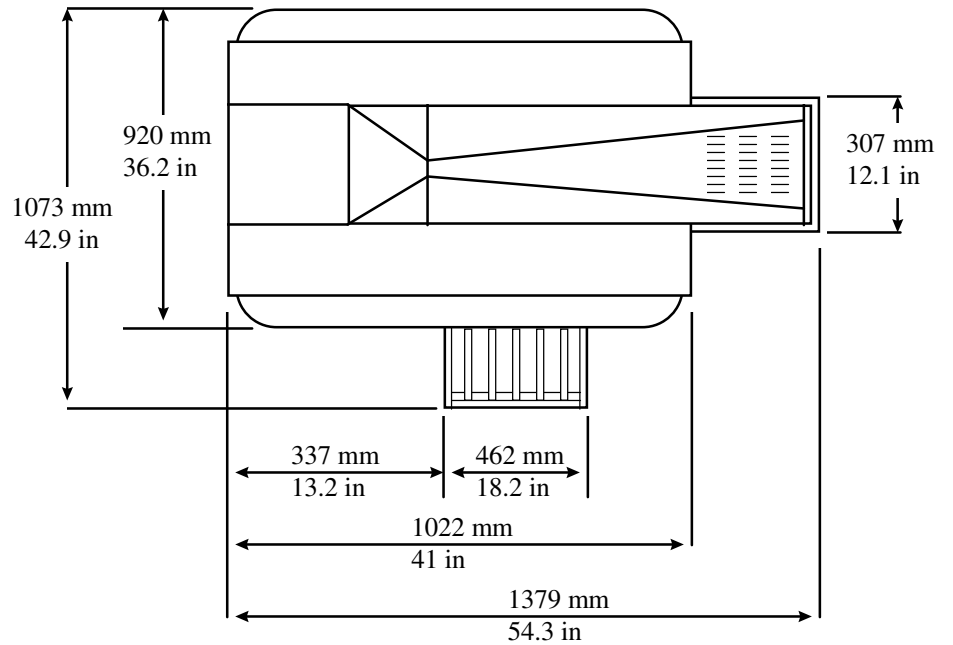


Figure 1-4 SOLO™ XL Dimensions (Top View)

2



Safety Instructions

	<p style="text-align: center;">WARNING</p> <hr/> <p>Failure to comply with the following instructions could result in personal injury or damage to the equipment.</p>
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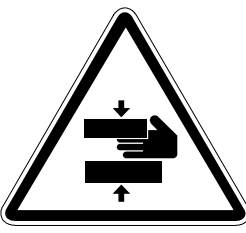

Precautions

The Model 645 Wrapper should be used by trained personnel only. Do not wear loose or torn clothes, a hanging tie, or jewelry when operating the machine. Keep long hair away from any moving parts. Follow the directions contained in this guide.

Be careful when working near the sealing belt, even when the machine is turned off.

	<p style="text-align: center;"> WARNING</p> <hr/> <p>The machine has an electrically heated sealing belt. Do not touch this belt.</p>
--	--

When a package is placed against the Infeed Start Switch, or if it is pressed, the machine will automatically start and will stop when the wrapped package is ejected on the sealing belt.

	<p style="text-align: center;"> WARNING</p> <hr/> <p>Do not put your hands beyond the Infeed Door or beyond the Sealing Belt exit opening while the machine is operating or powering up. On powerup, the Model 645 will run a self-test. During the self-test, Infeed Belts are in motion and other motors are running. Do not place materials on the belts during this test.</p>
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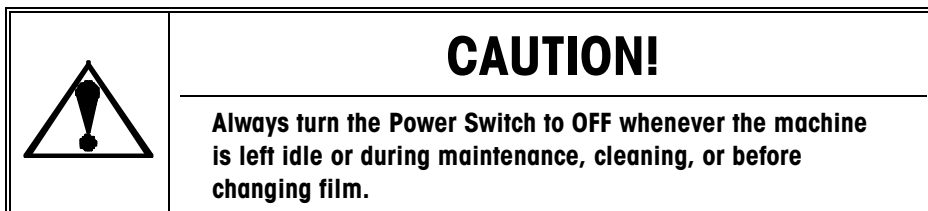
Do not remove any safety covers or disable any safety devices.

Do not use the machine if it is damaged or malfunctioning.

Only wrap the indicated tray sizes.

When the machine will not be used for extended periods of time, rotate the Power Switch to **O** to shut down.

Cleaning and Maintenance



Allow the Sealing Belt to cool before cleaning.

Do not attempt to make repairs to the machine; these operations must be performed by trained personnel only.

Do not direct water spray or steam at the inside or outside of the machine.

Safety Devices

The Model 645 incorporates several safety interlock devices to keep the operator safe and to avoid damage to the machine or service interruptions due to incorrect operation.

The machine is supplied with a transformer mounted underneath the machine. The primary of the transformer is protected by a circuit breaker located on the transformer enclosure.

Where there is access to moving parts, suitable warning labels are posted to identify potential hazards.

3

Operating Instructions

Component Locator

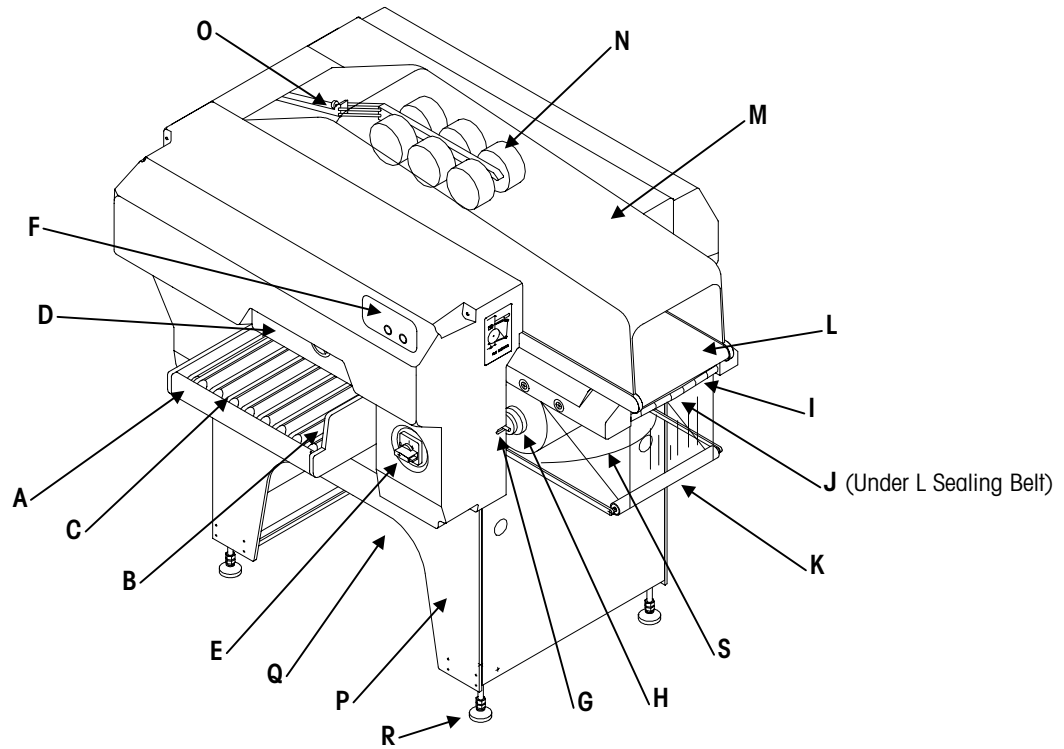


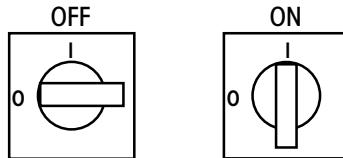
Figure 3-1

- | | | | |
|---|------------------------|---|---|
| A | Infeed Conveyor | K | Dancer Bar |
| B | Start Switch | L | Sealing Belt |
| C | Infeed Conveyor Belts | M | Top Cover |
| D | Infeed Door | N | Package Pressure Rollers |
| E | Power Switch | O | Height Adjuster for Rollers |
| F | Control Panel | P | Base |
| G | Bobbin Lock | Q | Transformer/Circuit Breaker
(Underneath Wrapper) |
| H | Film Bobbin | R | Adjustable Leveling Feet |
| I | Curved Roller Assembly | S | Static Dissipation String |
| J | Film Folders | | |

Controls

Power Switch

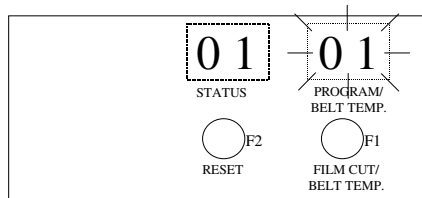
Refer to item E on page 3-1.



Turn the switch to **I** to turn the power **On**, or to **O** to turn the power **Off**.

Control Panel

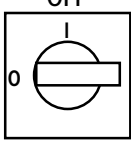
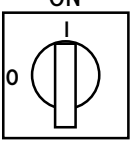
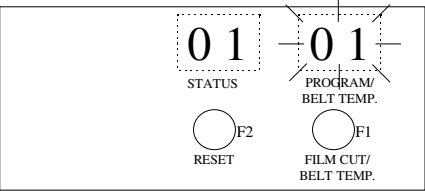
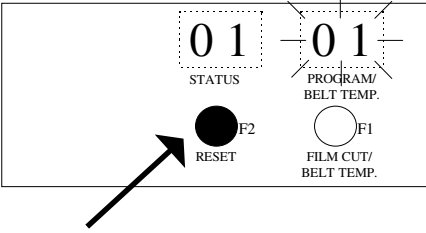
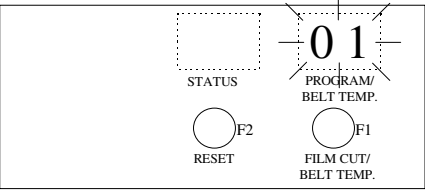
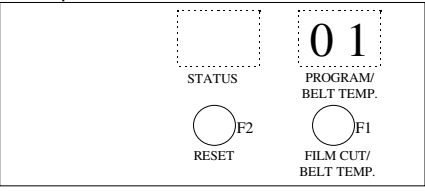
Refer to item F on page 3-1. The Control Panel consists of two 2-digit displays showing **Status** and **Program/Belt Temperature**, and two pushbuttons labeled **Reset F2**, and **Film Cut/Belt Temp. F1**.



- Status Display**
 Shows the Status Codes of the machine.
- Program/Belt Temperature Display**
 Normally displays Wrap Program Number
 Displays Sealing Belt Temperature in setup mode.
- Reset Button F2**
 Resets machine (*Caution! Pressing Reset initiates a self-test*).
 In setup mode, used to change Wrap Program and Sealing Belt temperature.
- Film Cut/Belt Temp Button F1**
 Used to cut film.
 In setup mode, used to change Wrap Program and Sealing Belt temperature.

	WARNING!
	<p>During self-test the Infeed Belts are in motion and other motors are running. Do not place materials on the belts during this test. Keep hands clear of the machine during the test.</p>

Wrapper Startup

OPERATOR ACTION	DISPLAY PANEL
<p>Turn power switch from 0 (off) to I (on) to turn power on.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>OFF</p>  </div> <div style="text-align: center;"> <p>ON</p>  </div> </div>	<ul style="list-style-type: none"> Status display shows 01 "PROGRAM/ BELT TEMP" display will blink off/on. <div style="border: 1px solid black; padding: 5px; text-align: center;">  </div>
<p>Push F2 button to reset the machine.</p> <div style="border: 1px solid black; padding: 5px; text-align: center;">  </div>	<ul style="list-style-type: none"> Machine starts self-test Status display will blank. "PROGRAM/ BELT TEMP" display continues to blink. <div style="border: 1px solid black; padding: 5px; text-align: center;">  </div>
<p>Wait for Sealing Belt to reach specified temperature.</p>	<ul style="list-style-type: none"> When "PROGRAM/ BELT TEMP" display stops blinking, the machine is ready to wrap. <div style="border: 1px solid black; padding: 5px; text-align: center;">  </div>

Warning!

During the self-test, the machine conveyors are in motion. Keep clear of machine during the test. Do not place any materials on the Infeed Belts while the machine is running the test.

Control Panel Functions

Display on Control Panel	Status or Operator Action	Operation Description
	Machine ready to wrap.	<p>Program Display shows the work program.</p> <p>Status Display shows status codes.</p>
	<p>To Select new Program.</p> <p>01 Tightest Wrap</p> <p>03 Standard Wrap</p> <p>31 For use with Black Trays</p>	<p>Press and hold the Reset Button F2 for more than 2 seconds.</p> <p>While holding Reset Button F2, select the new program by pressing the Film Cut/Belt Temp Button F1 until the desired program number is displayed.</p>
	<p>To Change Sealing Belt temperature.</p> <p>00 Heater Off</p> <p>01 78°C (172°F)</p> <p>02 81°C (178°F)</p> <p>↓ Each step = +3°C (5.5°F)</p> <p>30 165°C (329°F) Max</p>	<p>Press and hold Film Cut/Belt Temp. Button F1 for more than 2 seconds.</p> <p>While holding Film Cut/Belt Temp. F1, select the new temperature by pressing Reset Button F2 until the desired temperature setting is displayed.</p> <p>Recommended temperature range is between 20-21.</p> <p>20 = 128°C (262°F)</p> <p>21 = 134°C (273°F)</p>
	Machine stop. Check Status Code.	<p>Status Display shows status code. Refer to the Status Code Table in the Troubleshooting Section.</p> <p>Correct the error condition, then press Reset F2 to restart.</p>
	To cut film.	<p>Status Display must show 00 or 01.</p> <p>Press and hold Film Cut/Belt Temp. Button F1 until film is cut. (Approximately 5 seconds.)</p>

Film Roll Installation

The SOLO™ Plus requires 11-inch film and the SOLO™ XL requires 13-inch film. The recommended film is a high quality, two-ply 14 or 18 micron stretch film that is available through Mettler Toledo Aftermarket. Other films are available that will work on the machine. Contact Mettler Toledo for additional information. To install film on the Model 645 proceed as follows:

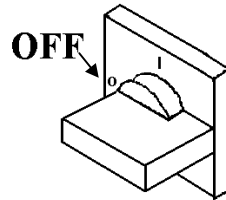


Figure 3-1

Turn the Main Power Switch to OFF.

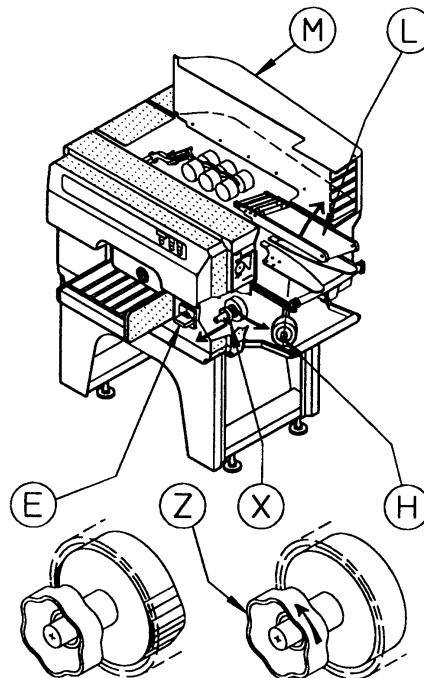


Figure 3-2

Open the top cover (M).

Lift the sealing belt (L) using the handle.
Caution, the Sealing Belt may be hot!

Release the Bobbin (H) by moving latch (X) toward the operator side. Pivot the Bobbin outwards.

Hold the Bobbin and rotate the handwheel (Z) counter-clockwise to release the Bobbin Lock.

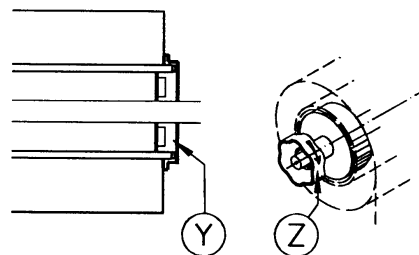


Figure 3-3

Slide the film roll onto the Bobbin until the roll edge engages the core reference disk (Y) at the back of the machine in Figure 3-3. You may need to lift the film roll in the rear to properly position the core.

Rotate handwheel (Z) clockwise to endstop.

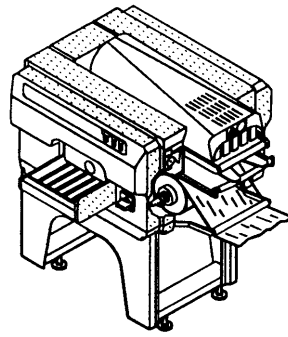


Figure 3-4

Pull the Bobbin Latch toward the operator side and pivot the Bobbin back to the work position until it locks.

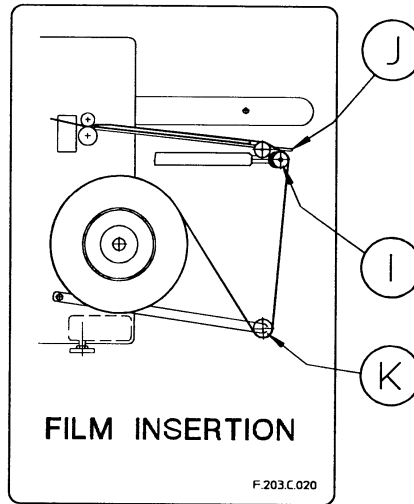


Figure 3-5

Insert the film under the Dancer Bar (K), over the curved rollers (I), through the film folders (J), and past the distributor. The Static Dissipation String lays across the top of the roll of film.

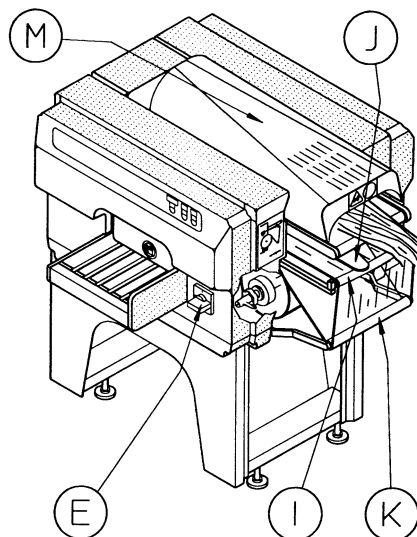


Figure 3-6

Gently lower the Sealing Belt back to the work position. Allowing the Sealing Belt to slam down may alter alignment and cause wrapping problems.

Pull out approximately 1 meter (3 feet) of film until it widens.

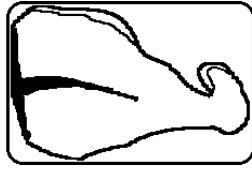
Lower the Top Cover (M) back to the work position.

Turn the Power Switch (E) ON (to the I position).

Press and hold the Film Cut/Belt Temp. Button **F1** until the film is cut. Remove the excess film.

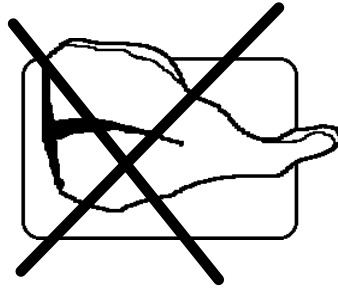
The 645 is now ready to wrap packages.

Loading Trays



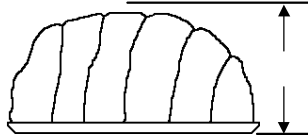
The trays must be stiff enough,

and

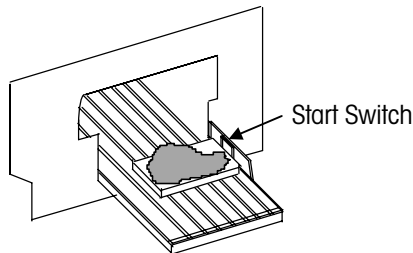


the product must be contained within the tray.

5" (127mm) Plus
5.5" (140mm) XL



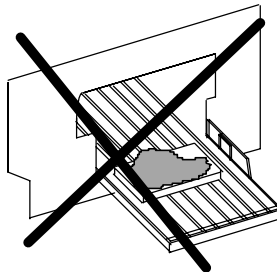
Height must be less than 5" (127 mm) on Plus
and 5.5" (140 mm) on XL.



To start wrapping, place the tray on the Infeed
Belt and against the **Start Switch**.

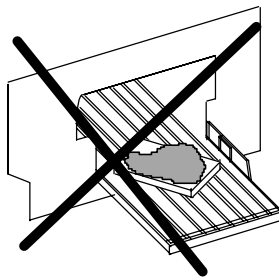
Caution!

***Place the trays on the infeed conveyor only
when the conveyor belts are stopped! Do not
place a tray or any object on the moving
conveyor belts.***

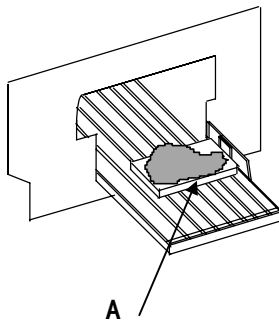


The trays must be placed **against** the Start
Switch to start wrapping. Allow belts to stop
before placing next tray.

Place the tray so the long side enters the feed
device first.



Trays must be aligned square with the infeed conveyor.



When tray dimension **A** exceeds 8.66 in. (220 mm) for the SOLO™ Plus, or 10.25 in. (260 mm) for the SOLO™ XL, place the tray so the long side enters first.

The 645 will verify sizes and reject trays which exceed the maximum acceptable size. Any combination of tray sizes can be fed into the machine. The 645 automatically adjusts the amount of film and tension depending on the tray dimensions.

Package Wrapping Check

- Check to see if the tray comes out of the machine well-wrapped and properly sealed underneath. Select the Program that provides the best results for the type of package/product being wrapped.

Program Number	Wrapping Type
01	Wrapping with more film tension and lower items.
03	Standard wrapping for standard tray and items.
31	Wrapping when using black trays.

- The wrapping check should be made after the Sealing Belt temperature is stable (indicated by a steady display on the Program Display).
- If sealing is inadequate, increase the temperature value. If the film appears burned, lower the temperature. The recommended temperature setting is 18-20 for most applications.

Code On Display	Sealing Belt Temperature
00	Heater OFF
01	172°F or 78°C
02	178°F or 81°C
↓	Every time the code changes one unit, the temperature changes 5.5°F or 3°C.
30	329°F or 165°C

Idle Time

The 645 power can be left on during short idle periods of time to maintain temperature to the Sealing Belt.

If no activity is detected on the infeed Start Switch within 4 hours, the 645 will automatically lower the temperature on the sealing belt to the minimum setting of 01. This time can be changed by a Service Technician from 1 to 4 hours.

If the 645 will not be used for an extended period of time, the power should be turned off using the Power Switch.

Continuous Feeding

- Within the maximum and minimum size limits, the SOLO™ Plus and SOLO™ XL machines accept any tray size placed on the feed device in any order.
- The machines automatically adjust film quantity and tension, depending on the tray dimensions.

	CAUTION!
Do not place a tray on the feed device when the belts are moving.	

- The wrapper starts when a package is placed against the Start Switch.
- Trays must be placed squarely against the Start Switch (parallel to the belts) to be wrapped properly.

4

Troubleshooting

Before You Call For Service

Before you call for service, cycle the power on the unit. If the problem persists after you take the indicated steps, contact your service agent. Listed below are some common symptoms that could be encountered.

Important Note

For cleaning instructions, refer to Chapter 5 Maintenance before attempting to clean any of the wrapper components.

SYMPTOMS	CAUSE	SOLUTION
<ul style="list-style-type: none"> Film Tearing Film Tracking Poorly 	<ul style="list-style-type: none"> Bad Roll of Film. 	<ul style="list-style-type: none"> Replace Film with New Roll.
<ul style="list-style-type: none"> Trays Left Open Poor Overwrap No Overwrap 	<ul style="list-style-type: none"> End of film roll. Film Pulling Out of Center Clamp. Film pulling out of side clamps. 	<ul style="list-style-type: none"> Replace roll of film. Clean Center Clamp and allow to dry thoroughly. Clean side clamp gripper pads and allow to dry.
<ul style="list-style-type: none"> Not Picking Film 	<ul style="list-style-type: none"> Sealing Belt Not in Closed Position. Film Not Loaded Properly. Center clamp dirty. Film wrapped around distributor film roller. 	<ul style="list-style-type: none"> Lift and Re-close Sealing Belt. Re-load the Film. Clean Center Clamp and allow to dry. Remove any debris. Remove any film or debris from distributor film roller.
<ul style="list-style-type: none"> Error 61 Displayed on Trays Normally Wrapped 	<ul style="list-style-type: none"> Infeed Belts Slipping. 	<ul style="list-style-type: none"> Clean and Dry Infeed Belts.
<ul style="list-style-type: none"> Error 99 	<ul style="list-style-type: none"> Photoeyes Dirty. 	<ul style="list-style-type: none"> Clean Photoeyes.
<ul style="list-style-type: none"> Short Overwrap 	<ul style="list-style-type: none"> Rollers on Sealing Belt Dirty. 	<ul style="list-style-type: none"> Clean Rollers on Sealing Belt.
<ul style="list-style-type: none"> No Power 	<ul style="list-style-type: none"> Main switch turned to O. Circuit breaker tripped. Inadequate wiring. 	<ul style="list-style-type: none"> Turn the Power Switch to I. Reset the circuit breaker on the transformer. Check store circuit breaker. Check the wiring.

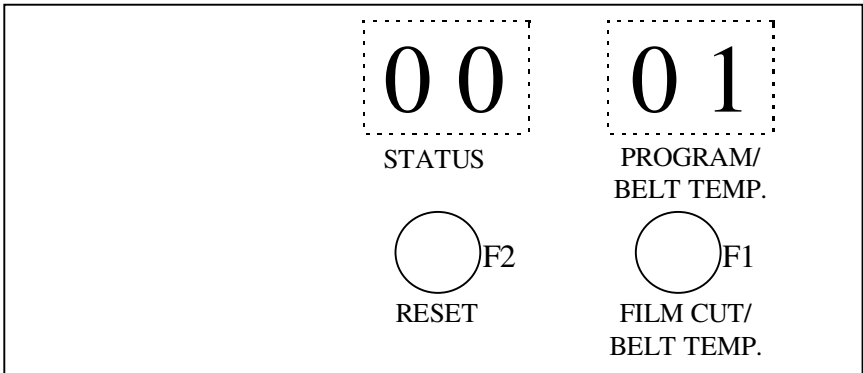
SYMPTOMS	CAUSE	SOLUTION
Irregular package wrapping	<ul style="list-style-type: none"> • Film roll out of position • Film clamp grasp insufficient • Side Clamps film gripping insufficient • Film Folder dirty • Film loading incorrect 	<ul style="list-style-type: none"> • Arrange the film roll in the correct position. • Check and clean Center Clamp and allow to dry. • Check and clean the side clamps and allow to dry. • Clean the Film Folder. • Reload the film.
Package wrapping with irregular film tension	<ul style="list-style-type: none"> • Film roll out of position • Center Clamp grasp insufficient • Side clamp grasp insufficient • Film Folder dirty • Film loading incorrect 	<ul style="list-style-type: none"> • Arrange the film roll in the correct position. • Check and clean the film clamp. • Check and clean the side clamps. • Clean the Film Folder. • Reload the film.
Package wrapping with irregular film tension	<ul style="list-style-type: none"> • Work program incorrect 	<ul style="list-style-type: none"> • Check the work program setting. • Enter the proper work program.
Poor package sealing	<ul style="list-style-type: none"> • Sealing belt temperature incorrect 	<ul style="list-style-type: none"> • Check the set temperature value. • If sealing belt is too hot, lower the temperature value. • If sealing belt is too cold, increase the value.

Self Test

The Model 645 is able to self-test and display the following information:

- The type of program being used on the Status Display.
- A status code indicating machine status or probable reasons for stoppages or malfunctions.


The machine conveys this information by special numerical codes shown on the Control Panel Status Display.



The following Status Code List describes the codes. If the code is an error, the section gives steps to take to solve the problem.

	WARNING
	<p>During the self-test, the wrapper conveyors and motors are in motion. Do not place materials on the belts during this test. Keep hands clear of the machine when the self-test is running.</p>

Status Codes

	<h3>CAUTION!</h3> <p>Turn off the machine and disconnect from power source before performing any repairs. After the repair is completed, turn the machine on and press push-button F2.</p>
---	--

Code	Description	Action
00	End of Emergency 03	Press the Reset Button F2 .
01	Waiting to Start the Program	Press the Reset Button F2 .
03	Safety Stop Caused by open Infeed Door or Top Cover	Release the Infeed Door. Close Top Cover. Press Reset Button F2 .
04	Package Jam in machine	Open top cover, remove jammed package, close cover. Press the Reset Button F2 .
06 thru 54	Internal machine errors	Remove any debris or packages from machine. Press the Reset Button F2 . If problem persists, call for service.
60	Double package or tray fed too soon. - or - Photocells dirty or blocked.	Feed trays only when belts are stopped. Clean Photocells. If the error persists, call for service.
61	Package too long. Photoeyes dirty or blocked. Infeed Rollers/Belts dirty.	Tray exceeds maximum tray dimensions. Turn the tray 90°. Check that the tray dimensions are not greater than listed in the Specifications Section of this Manual in Chapter 1. Clean photocells. Clean Infeed rollers/belts. If the error persists, call for service.
62	Package Too Small. --or-- Photoeyes dirty or blocked.	Check that tray dimensions are not less than the minimum listed in the Specifications Section of this Manual in Chapter 1. Unblock or Clean photocells. If the error persists, call for service.

Code	Description	Action
65	Photocells not Activated. Start Switch pressed with no package on infeed belts.	The package has not reached the photoeyes. Re-arrange the tray on the Infeed Conveyor. If the error persists, call for service.
66	Start Switch Continuously Activated.	Check the mechanical operation of the Start Switch. If the error persists, call for service.
67	Pack Placed Incorrectly on Start Switch.	The first horizontal photocell has not been activated. Re-arrange the tray on the Infeed Conveyor. If the error persists, call for service.
71 thru 78	Internal Machine Error.	Press the Reset Button F2 . If error persists, call for service.
99 blink	Multiple Photoeyes Malfunctioning.	Check and clean photocells. Press Reset Button F2 . If the error persists, call for service.

Circuit Breaker

The main circuit breaker disconnects power to the wrapper. The transformer is mounted on a shelf underneath the wrapper. In the event where the circuit breaker opens, it can be reset using the switch located on the transformer housing.

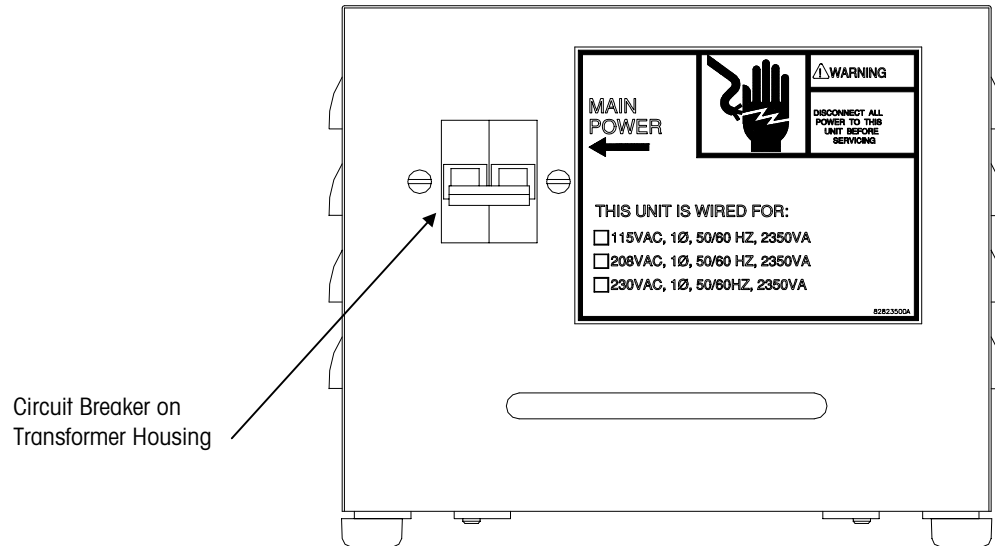


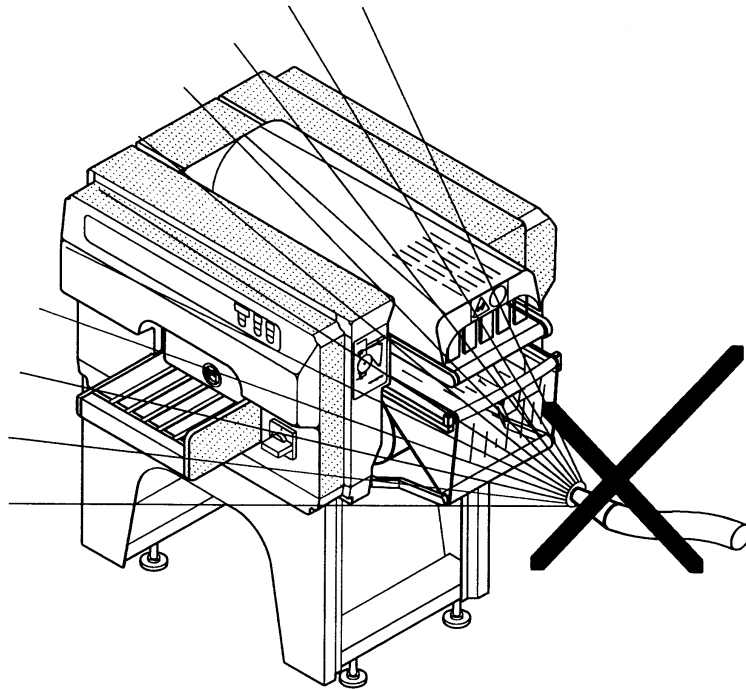
Figure 4-1 Main Circuit Breaker


5

Maintenance

Precautions

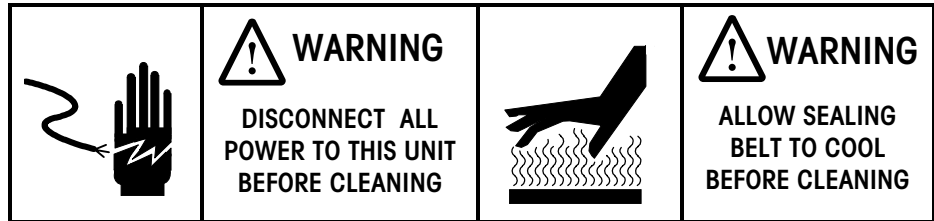
	<p>! WARNING DISCONNECT ALL POWER TO THIS UNIT BEFORE CLEANING</p>		<p>! WARNING ALLOW SEALING BELT TO COOL BEFORE CLEANING</p>
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	<p>CAUTION!</p> <p>Do not direct water or steam at the inside or outside of the machine. Keep moisture away from the inside of the electrical panel and control board. Failure to comply could result in property damage.</p>
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Daily Cleaning

The Model 645 is designed to make cleaning operations simple and fast. The following items require attention daily or more frequent as required.



- Sealing Belt** Use a clean cloth dampened with hot water.
- Start Switch** Use a clean cloth dampened with hot water. Remove all debris on and around the Start Switch. Do not use a sharp object to scrape around the switch cover.
- Infeed Belts** Use a clean soft cloth dampened with hot water to clean the belts, rollers, and tracks. Wipe infeed belts and rollers to remove all debris. Do not use soap or any commercial cleaners on the belts. Use of these types of products may cause the belts to slip, which will cause package feeding problems. Corn starch, baby powder, or talcum powder can be used in the belt tracks to reduce friction on the belts.
- Photoeyes** Use a soft clean cloth dampened with hot water. Wipe all horizontal and vertical photoeyes. ***Do not use a paper towel or any type of abrasive to clean the photoeyes. It will scratch and damage the Photoeye lens. Only use a soft cloth.***
- Side Clamps** Clean the tips of the Side Clamps as needed with a clean cloth dampened with hot water and allow to dry. Clean the Side Clamp Gripper Pads by pushing down on the top of the clamp to open. Use a clean cloth dampened with hot water only. ***Allow to dry thoroughly before using wrapper. Use caution to prevent pinched fingers when cleaning the clamp gripper pads!***
- Package Lifter** Remove any film or food debris which may have accumulated in the lifter mechanism. Use a soft cloth dampened with hot water to clean.
- Center Clamp** Clean with soft grease-free cloth dampened with hot water. Push the release lever down to clean and remove any film fragments and food debris. ***Allow to dry thoroughly before using the wrapper.***
- Exterior Covers** Clean with soft cloth dampened with hot water.

Daily Cleaning

Center Clamp

Remove all debris. Clean with a grease-free soft cloth dampened with hot water. Press down on lever to open, using care to avoid pinched fingers. **Allow to dry before using wrapper.**

Side Clamps

Remove any debris. Clean the ends (only) with a soft cloth dampened with hot water. Clean the clamp gripper pads by pressing down on the clamp. **Allow to dry thoroughly before using wrapper.**

Infeed Belts

Clean the belts, tracks, and rollers with soft cloth dampened with hot water. Wipe belts and rollers to remove debris.

Exterior Covers

Clean all exterior covers and surfaces as needed with a soft cloth dampened with hot water.

Pressure Rollers

Clean with a soft cloth dampened with hot water.

Sealing Belt

Remove all debris. Clean with soft cloth dampened with hot water. **Caution! Belt may be hot! Allow to cool before cleaning.**

Package Lifter

Remove all debris from the supports and clean with a soft cloth dampened with hot water.

Film Folders/Distributor

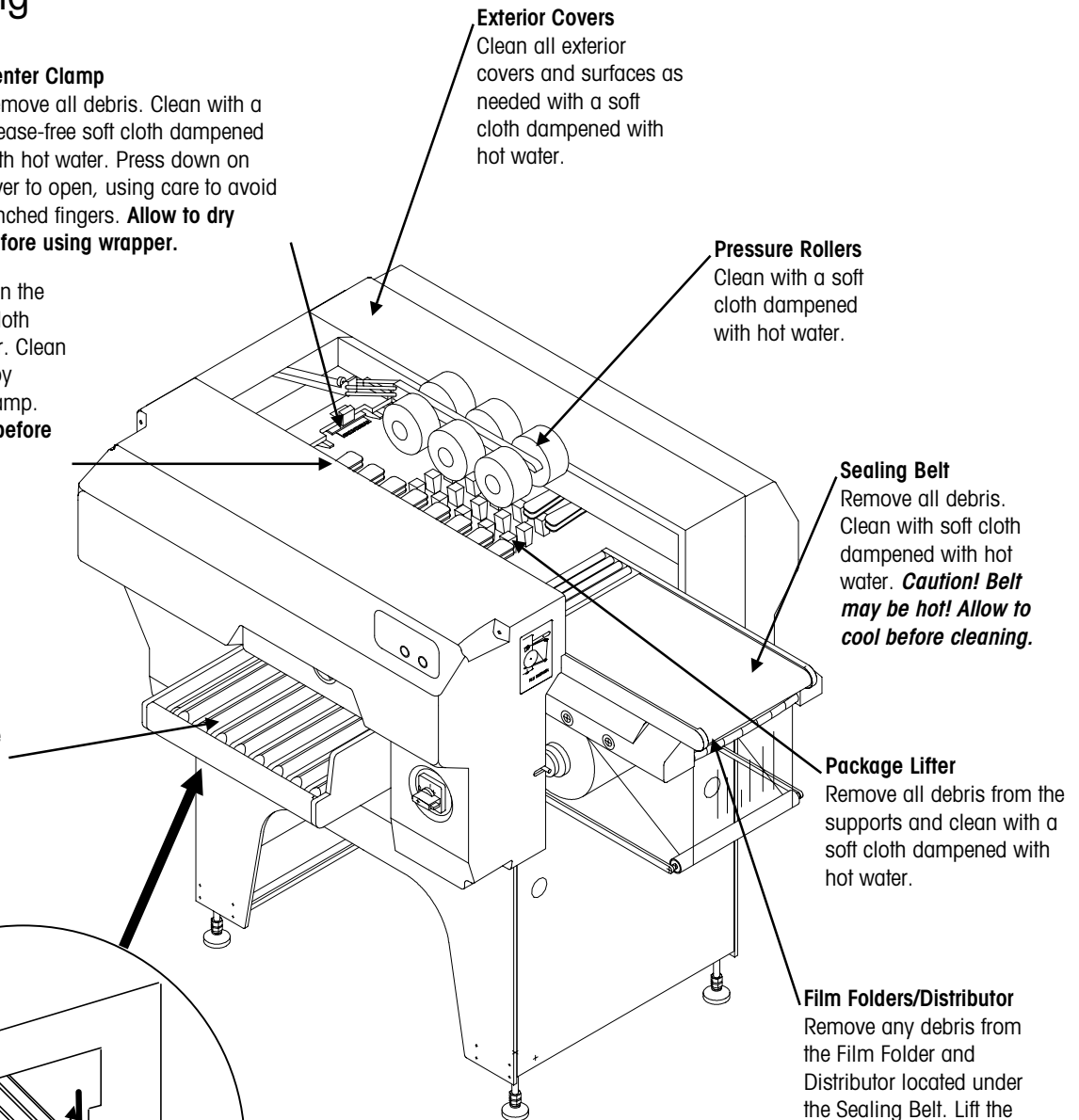
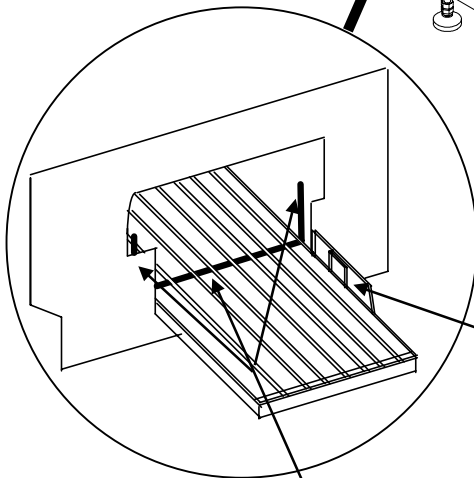
Remove any debris from the Film Folder and Distributor located under the Sealing Belt. Lift the Sealing Belt using the handle for access to the folders. **Caution: Belt may be hot!** When lowering the Sealing Belt, hold the handle and lower gently to avoid alignment problems.

Start Switch

Clean with soft cloth dampened with hot water. Remove all debris. Do not use any sharp objects to clean.

Photoeyes

Use a soft cloth dampened with hot water. Clean the lens of the horizontal and the left and right vertical photoeyes on the infeed. **Do not use a paper towel or other abrasive material to wipe the photoeyes. It will scratch the photoeye lens. Only use a soft cloth.**



Lubrication

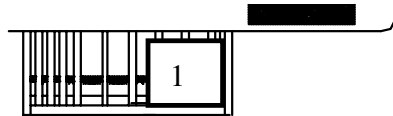
The Model 645 does not require frequent lubrication. Machine lubrication should be performed only by qualified personnel during inspections and adjustments.

6

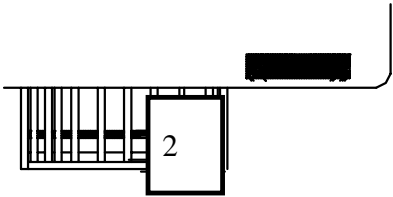
Tray Reference

This section shows illustrations covering guidelines for feeding trays into the SOLO™ Plus and SOLO™ XL wrappers.

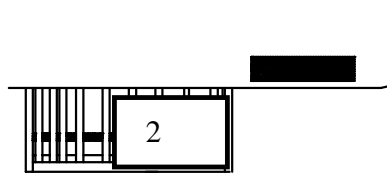
SOLO™ Plus Trays



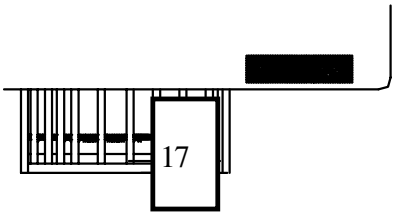
If tray height is less than 3"



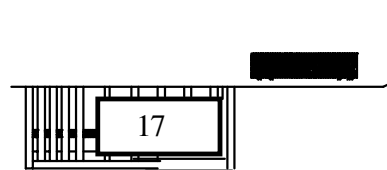
If tray height is greater than 3"



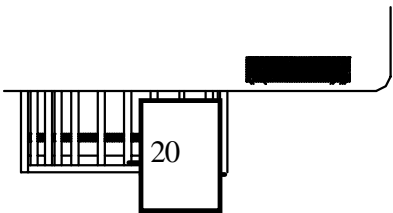
If tray height is less than 3"



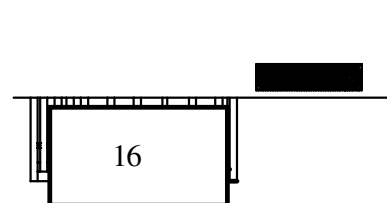
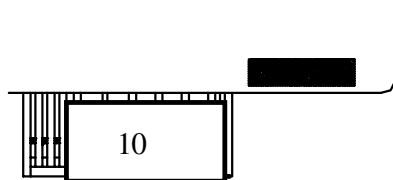
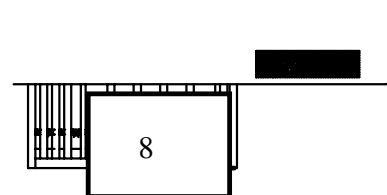
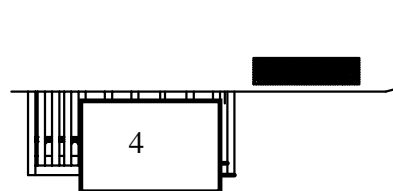
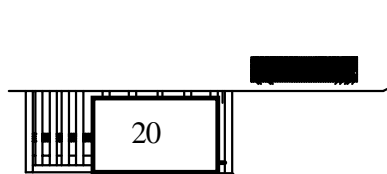
If tray height is greater than 3"



If tray height is less than 3"



If tray height is greater than 3"



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