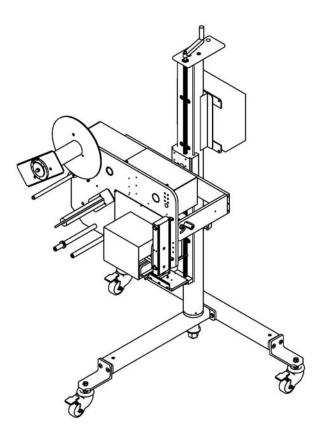


Little DavidTM Label Application System

LX80 / 800 Series Print and Apply

Labeling System



Version: 05A (Used for Allen-Bradley Micro830TM PLC & New Color PanelView)

Operator's Manual

LITTLE DAVIDTM LABEL APPLICATION SYSTEM

Labeler Operation

Copyright © Loveshaw 2000-2018 Loveshaw, Inc. 2206 Easton Turnpike, PO. Box 83 South Canaan, PA 18459 Tel: 1-800-962-2633 • 570-937-4921 Fax: 570-937-4016

www.loveshaw.com

Loveshaw Europe Unit 1 Newton Park West Portway Industrial Estate Andover, Hampshire SP10 3SH ENGLAND Tel: 264-357511 Fax: 264-355964

Tuesday, April 23, 2019

Table of Contents

Chapter 1: Introduction	1
Chapter 2: Operating Safety	2
Chapter 3: Overview	6
Chapter 4: Installation and Threading	7
Section 1: Placing the Mount	
Section 2: Threading the Label Stock	11
Chapter 5: Printer	14
Chapter 6: Product Sensing and Time Delay	15
Chapter 7: Applicators	17
Standard Straight Tamp (200mm stroke)	
Optional Extended Tamps (350/400/500/600mm stroke) Dual Tamp / CW (Swing Arm)	
Chapter 8: Pneumatic System	25

Chapter 9: Features and Options	27
Light Warning Assembly	27
Cleanable Vacuum Filter	
Air Dryer	28
Spare Parts Kits	
Chapter 10: Controls & Application Modes	32
Chapter 11: Maintenance	<u>43</u>
Chapter 12: Warranty and Label Converting Specifications	47
Chapter 13: Assemblies and Schematics SEE SECTION FOR DETAILED ORGANIZATION OF DRAWINGS	49

Chapter

Introduction

hank you for purchasing the model LX80/800 Little DavidTM labeler. The LX8 series of print and apply labelers is a labeler designed to be versatile enough to suit a variety of carton labeling requirements with one standard unit. All employees who will be required to operate the labeler should read this manual to ensure proper setup and a long machine life. After reading this manual you will know how to perform the following functions,

- How to position the labeler to achieve maximum performance.
- How to thread the labeler and adjust the sensors to apply labels in the most efficient manner.
- How to use the controller interface.
- Troubleshooting and replacing of worn or defective parts.

Throughout this manual there are several illustrations designed to help you perform the variety of tasks described. These illustrations all depict the right-hand version of the machine. You can tell a right hand and left hand machine apart by facing the machine. The side with the plate holding all of the rollers is the hand version of the machine. The hand designation of your individual machine does not affect any of the procedures or maintenance operations described below only that your left hand machine appears as a mirrored image of the machine depicted in the illustrations.

ICON KEY

Operating Safety



Observe the warnings and cautions below when using the Little David Label Application Systems. Within this manual, a warning indicates that the potential for bodily injury exists, and a

caution indicates when the machine may suffer damage.

Instruction: Requirement to System Operation

- Instruction: Socket-outlet shall be installed near the equipment and shall be easily accessible.
- Instruction: Fuses marked MDA 1/2A are of type: 250V, 1/2 Amp, Slow Blow.

Fuses marked MDA 3/4A are of type: 250V, 3/4 Amp, Slow Blow.

Fuses marked MDA 6/10A are of type: 250V, 6/10 Amp, Slow Blow.

Warning: Potential Bodily Injury

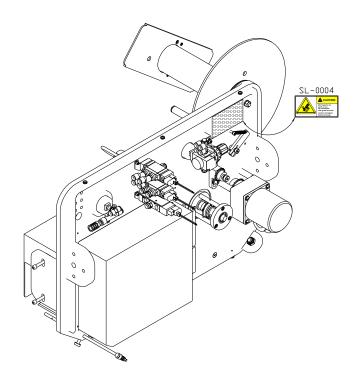
- Warning: Always turn off the electrical power and pneumatic air flow before clearing jams, and before performing maintenance. Perform Lockout / Tagout procedures when performing higher level maintenance tasks. Refer to your company Lockout / Tagout procedure or policy for specific details when appropriate.
- **Warning:** Avoid liquid or excessive moisture when using the system. Do not operate the system with wet hands, nor in a very humid environment. Do not spill liquid on the system.
- Warning: Do not touch moving parts. Turning hubs can bruise or scrape, rapidly moving label stock can cut like a knife.
- **Warning:** If a problem arises that is not covered in this manual, do not attempt to repair the system yourself, instead, call your nearest service office for immediate and correct care of the equipment. Trained personnel should perform all adjustments and service.

This manual contains operator information for Little David Application Equipment. It is directed toward the person who operates that system. You should take the time to read through this manual once before operating it. Thereafter, refer to it as necessary.

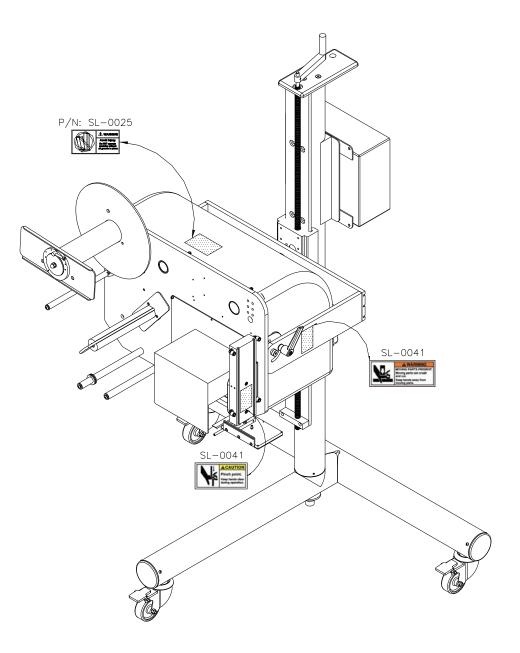
Take special note of all warnings, cautions, and maintenance instructions. Like any other piece of equipment, the Little David Label Application System functions best when cared for and used carefully. Note that only an authorized technician should perform any procedures not described in this manual.

Caution: Potential Machine Damage

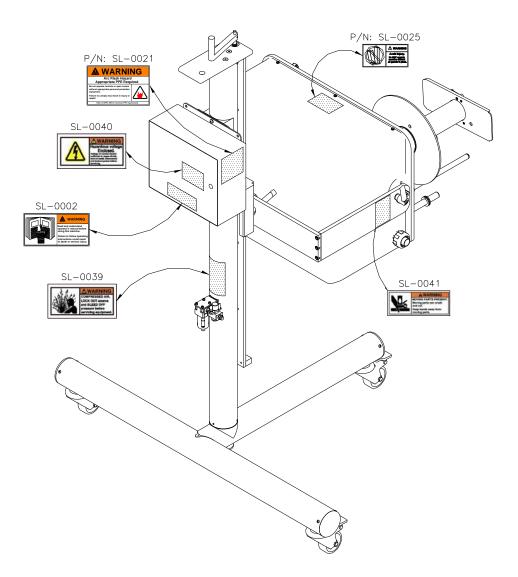
- **Caution:** Do not install the system in direct sunlight.
- Caution: Do not install the system near a heater or heat emitting equipment.
- Caution: Provide and use proper electrical power and clean dry compressed air.
- **Caution:** Do not operate, maintain, or otherwise use the system, except as described in this manual.



Safety Decal Locations



Safety Decal Locations



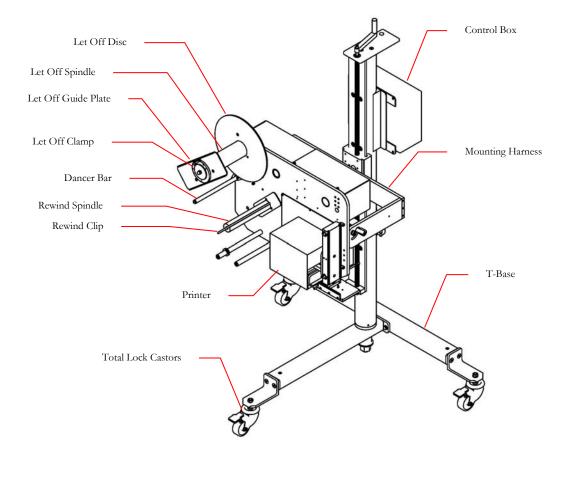
Safety Decal Locations

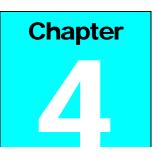


Labeler Sections

Overview

This manual covers several parts of the machine. The following diagram identifies the key sections of the machine.





Installation and Threading

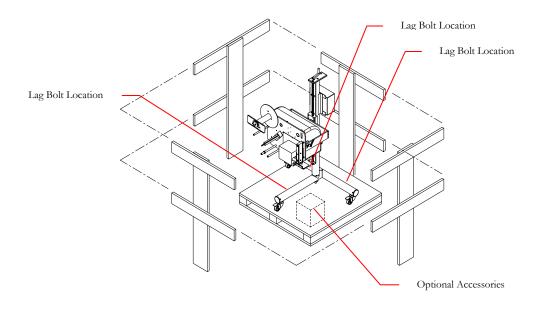


lways check for any signs that the machine may have been damaged before fully removing it from the shipping skid.

Section 1: Placing the Machine

The labeler comes fully assembled and already on the mounting stand. The Plant Manager at your facility might have already determined a pre-arranged location for the labeler. If no prearranged location exists following the steps below will help determine the ideal spot.

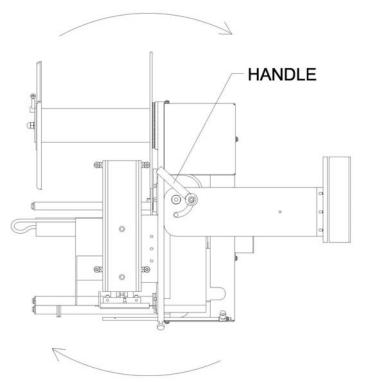
Step One: Carefully remove all of the items in the shipping box and skid. There are three lag bolts fastening the labeler to the base of the skid. While the machine is fully assembled, certain options such as software or spare parts kits may be packaged separately.



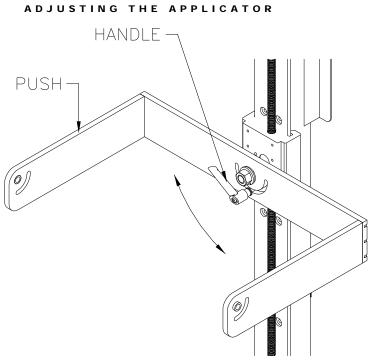
<u>Step Two:</u> Take care removing the machine from the skid as it weighs 220 pounds. Get assistance with this step.

Step Three: You will need to move and orient the label machine along your production line in a position relative to your label and product. The enclosed <u>Quick Start Guide</u> details this process and it is reproduced here, as well.

A. Positioning the machine for top application or side application utilizes two handles located on the sides of the machine as shown.

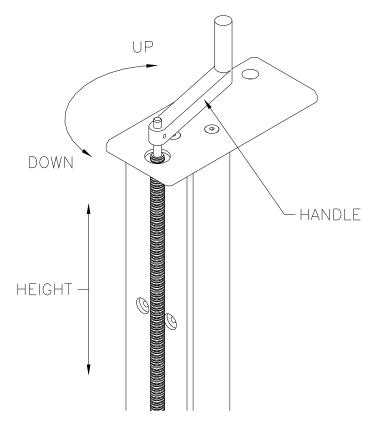


B. Alternatively or additionally, you may want to turn the machine vertically. This is done with the handle found behind the machine.

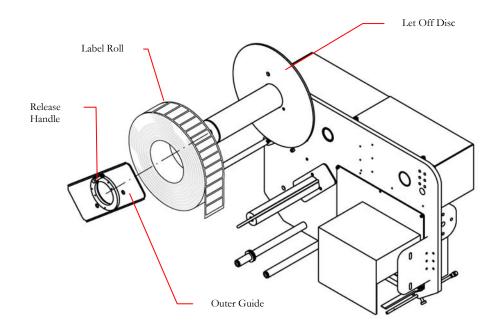


If the machine is to be inverted (sometimes called bottom labeling) the handle should be completely removed to move the machine upside-down. This will expose a new hole that can be used for the lock handle so that the position is maintained.

C. Vertical height is changed with the handle on the top of the machine.



Step Four: Once the labeler has been rotated to the desired position, you will want to load the labels and ribbon. Loosen the outer clamp with the handle and remove it, then load you labels as shown and replace the outer guide. Prior to locking the outer guide in place, leave a little clearance between the outer guide and the roll of labels; **Do Not** press the outer guide tightly against the label roll as it will stop the label roll from unwinding normally and stall the label feed.



Ribbon should be loaded according to the diagrams on the inside cover of your printer and further details about the thermal transfer ribbon can be found in the printer manual.

Refer to Section 2: Threading Label Stock.

Section 2: Threading the Label Stock

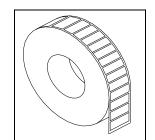
Always make sure that the power is off, the unit is unplugged, and no product is moving past the labeler before threading new label stock or re-threading after a web breaks. The label thread path into and out of the printer is screened onto the label machine. This section will detail the threading operation in detail beyond the illustration on the machine.

Step One:

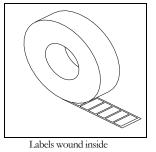
- Make sure that the let-off discs are not holding the label roll too tightly. The roll should spin when light pressure is applied to it.
- The label path is justified to the inside edge. Make sure that all guide collars and plates are properly aligned to the Let-Off Disc.
- Make sure that when the leading edge of the label roll is pulled away, the labels face the top of the machine regardless of the machine orientation to top, side, or bottom application.
- The machine is only designed to accept labels that are wound on the outside of the reel. See Label stock windings below.
- Clear the first 36" of labels.

Label Stock Windings

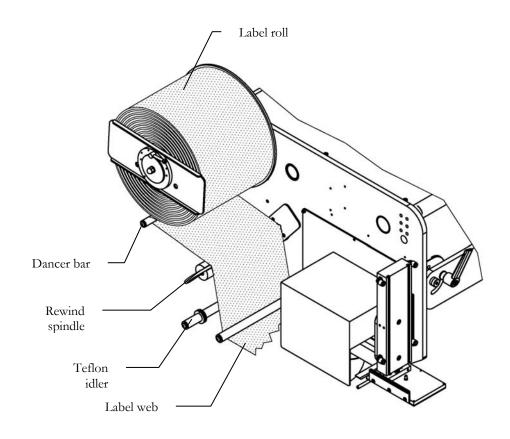




Labels wound outside (mount as shown)

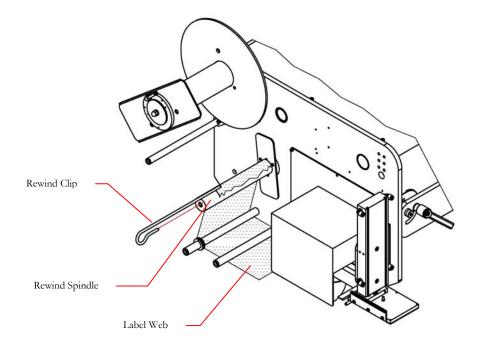


Step Two: Take the cleared strip of label web and thread it under the dancer bar, over the rewind spindle, and under the idler roller as shown in the following illustration.



Step Four: Now take the web and pull it through the printer. Your printer will have a detailed thread path instruction on the inside cover. Further details about threading your printer can be found in your printer manual. Online videos showing the label and ribbon loading are available at the printer web site for that specific model.

Step Five: Take the label web back under the lower idler and attach it to the rewind spindle via the clip.



The labeler is now threaded and ready to be plugged in and turned on. You will need to download labels from a PC, or other device, to the labeler (consult printer and software manuals for detail).

Once label data has been transferred, you can use the 'Feed' selection on the control box to advance one label onto the applicator.

If the label comes out too far or not far enough adjustments to the printer may be needed. Read your printer manual for how to make the appropriate adjustments.

Chapter 5

Printer Configuration

Your OEM Label Printer

You are at the phase where you will need to configure and communicate from a host computer to the printer in your labeler.

The LX80/800 series Printers labelers comes standard with the following connectivity: RS232C Serial communications, USB, Parallel, and Wired Ethernet. (Note: Wireless Ethernet and in some models Blue Tooth are options that must be ordered at the time of the order.)

The LX80/800 Series of Label Machines comes equipped with an OEM style label printer (Print Engine) that was installed by our technicians before shipping it to your facility. Some printer manufactures provide a CDROM along with the print engine. Due to the wide selection of printers and configurations available, Loveshaw directs you to consult the printer (Print Engine) model web site for the most current manual and drivers. Also you will find other useful information such as how to videos and other documents with regard to set-up and troubleshooting of the Print Engine.

If the CD ROM is somehow damaged or cannot be located after unpacking, each OEM printer manufacture has detailed instructions as well as Operator, Technical and Parts manuals available for download from their respective web site. Please refer to those specific manufactures home pages for additional resources, user guides, tutorials and other useful information.

Note: It is important to register your OEM Printer Engine with the appropriate manufacture for specific printer warranty registration.

Chapter

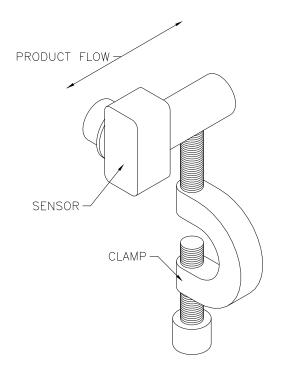
Product Sensing

Proximity Photo-eye

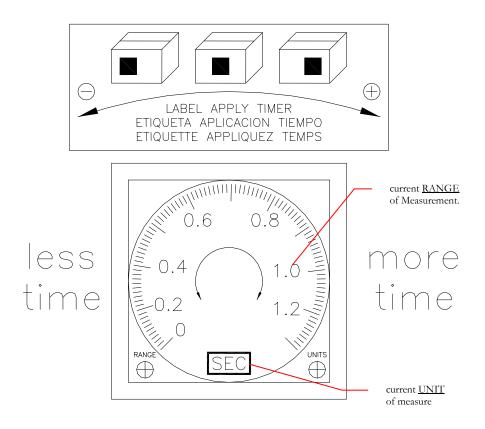
Sensor P/N: E7763-P1-LX

The labeler operates when it gets a signal from the product sensor telling it that the product is in place to receive the label. A standard photoelectric eye comes packaged with the machine and wired, via quick disconnect cable, to the control cabinet.

A standard mounting bracket allows the photo-eye to be mounted to a conveyor or guide rail but must be placed so that the eye is no greater than 18 inches (300mm) away from the product. Select the position of the product sensor so that the product will pass in front of it when you want the label apply cycle to start.



It is possible to adjust the label position on the box by adjusting the time between product detection and label apply. For the **Straight Tamp** with air assist applicator, the dial on the back of the control box is a delay timer that will stall the activation of the labeler from the moment of product detection.



There are three adjustments that can be made on the timer. One is to simply turn the dial to the desired value. On the lower left is a *RANGE* adjustment that will increase the increment value. On the lower right is the *UNITS* adjustment that will change the time unit of measure from Seconds, minutes, hours, and 10 hour increments.

NOTE: The Dual Tamp (Swing Arm) utilizes a Touch Screen in place of the selector switch and product timer to control labeler function. See Touch Screen section, page 33.

Applicator

Standard Stroke Tamp (200mm / 8") with Air Assist

Assembly P/N: .TP-LX80-40X60

For further details on assembly components, see Chapter 12.

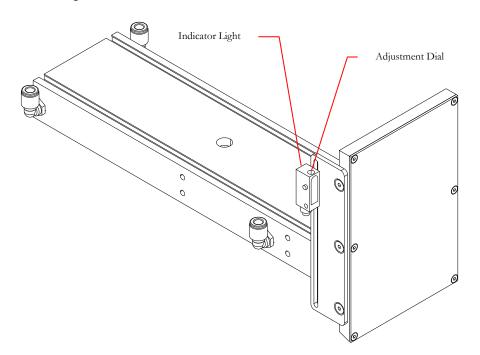
Adjusting the Applicator

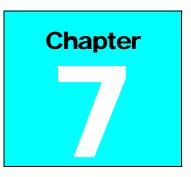
The applicator has only three adjustments; stroke length (or distance to product), pitch, and offset. All other timing is done through sensors.

Background Suppressed Sensor P/N: E7367-BS2

Adjusting the Applicator Stroke Length

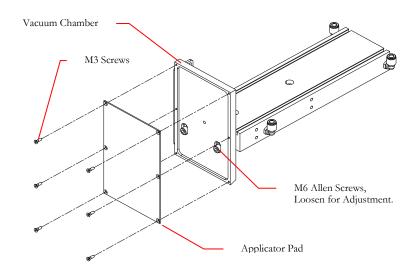
The tamp applicator uses a sensor to detect when the applicator has made contact with your product. It may be necessary to adjust the sensitivity or range of this sensor to apply the label to your desired specifications.





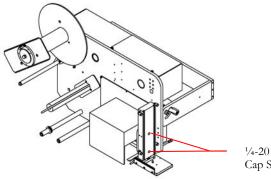
With the air off and the power on, extend the cylinder until the applicator pad touches the surface to be labeled and then turn the dial until the yellow indicator light has just turned on. When the light is illuminated, the sensor has detected the labeled surface and will begin to blow the label down and retract the cylinder. It is important that the sensor does not detect too early as the cylinder will retract before applying the label and if it detect too late, it may stall or damage your product or cylinder.

Adjusting the Depending on your label size, you may need to move the pad closer (short labels) or further (long labels) from the dispensing edge of the printer. The applicator pad has a pitch adjustment inside the vacuum chamber, under the pad.



Adjusting the Applicator Elevation

The elevation of the pad over, or below, the dispense edge of your printer may need to be adjusted based on your printer settings and offsets.



¹/4-20 Allen Cap Screws

Optional Extended Stroke Tamp (350mm / 14", 400mm / 16", 500mm / 20", 600mm / 24")

Assembly P/N's: .914 - LX - 350 .914 - LX - 400 .914 - LX - 500 .914 - LX - 600

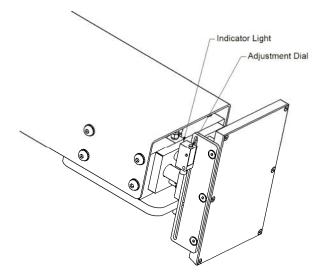
For further details on assembly components, see Chapter 12.

Adjusting the Applicator

The applicator has four adjustments; stroke length (or distance to product), pitch, and offset. All other timing is done through sensors.

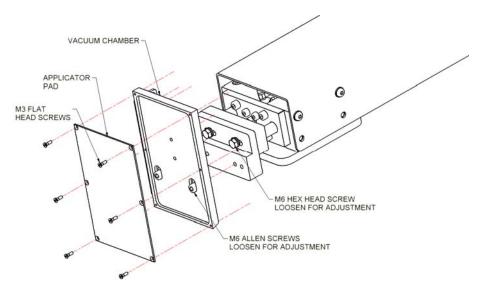
Background Suppressed Sensor P/N: E7367-BS2

Adjusting the Applicator Stroke Length The tamp applicator uses a sensor to detect when the applicator has made contact with your product. It may be necessary to adjust the sensitivity or range of this sensor to apply the label to your desired specifications.



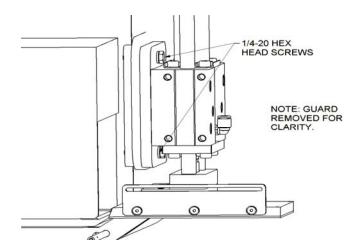
With the air off and the power on, extend the cylinder until the applicator pad touches the surface to be labeled and then turn the dial until the yellow indicator light has just turned on. When the light is illuminated, the sensor has detected the labeled surface and will begin to blow the label down and retract the cylinder. It is important that the sensor does not detect too early as the cylinder will retract before applying the label and if it detect too late, it may stall or damage your product or cylinder.

Adjusting the Depending on your label size, you may need to move the pad closer (short labels) or further (long labels) from the dispensing edge of the printer. The applicator pad has a pitch adjustment inside the vacuum chamber, under the pad. There is also a side to side adjustment; loosen the M6 hex head screws and adjust accordingly.



Adjusting the Applicator Elevation

The elevation of the pad over, or below, the dispense edge of your printer may need to be adjusted based on your printer settings and offsets.



Dual Tamp (Swing Arm) Applicator

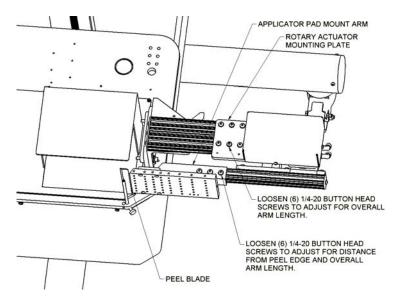
Assembly P/N: .914 - LX - DT/RH or LH

For further details on assembly components, see Chapter 12.

Adjusting the Applicator

The DT applicator has several adjustments; pitch, offset, swing arm length and maximum swing angle. All other timing is done through sensors.

Adjusting the Applicator Pad Pitch and Overall Arm Length The overall arm length is usually manufactured to your specific application, although there is at least 2.00" of adjustment in the arm if it becomes necessary to change the length. To change the length, loosen the (6) $\frac{1}{4}$ -20 button head screws on the rotary actuator mounting plate and the (6) screws (3 each side) on the applicator pad mount arm and position the arm as needed, then re-tighten the screws.

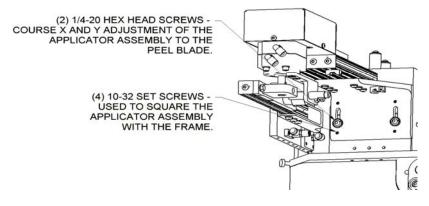


To make small pitch adjustments between the peel blade and the applicator pad edge, loosen the (6) screws (3 each side) on the

APPLICATOR

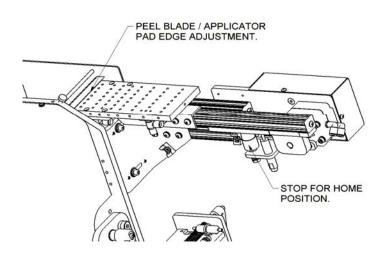
applicator pad mount arm and adjust accordingly. Re-tighten screws. Typically, a 1/8" gap is a good starting point.

Adjusting the Depending on your label size, you may need to move the pad closer (short labels) or further (long labels) from the dispensing edge of the printer. The applicator pad has a pitch adjustment inside the vacuum chamber, under the pad. There is also a side to side adjustment; loosen the M6 hex head screws and adjust accordingly.



Adjusting the Applicator Pad Home Position

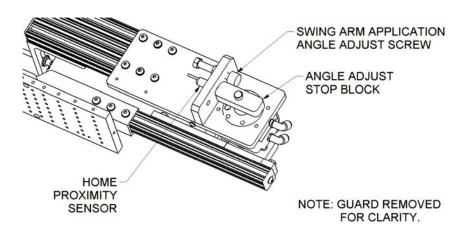
To fine tune the applicator pad home position, loosen the jam nut on the stop adjusting bolt and adjust the home stop as needed to allow proper label feed onto the applicator pad. Typically, the applicator pad is adjusted in the same plane or slightly behind the peel edge.



APPLICATOR

Adjusting the Swing Arm Maximum Application Angle

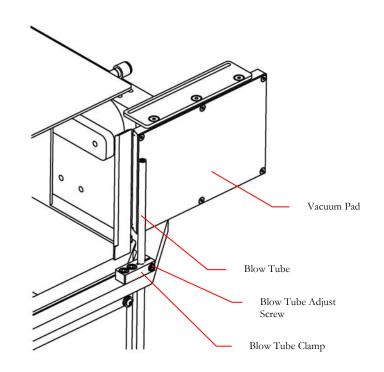
After locating the labeler in the application area and locking down the casters, manually swing the application arm out to insure it can apply the label squarely to the box or product. If the applicator pad doesn't place the label squarely on the product (arm stops short of being parallel with application area), you may need to adjust the arms application angle. First, with air removed and locked out, remove the guard covering the shaft of the rotary actuator, then loosen the jam nut on the angle adjust screw. Rotate the screw so the application point, then re-tighten the jam nut and re-install the guard. Note: do not adjust the overall angle more than 135 degrees in relation to the applicator arms home position.



There is a small steel tube below the dispensing edge of the printer. During the dispensing cycle air will flow through the tube to assist guide the label away from the backing and towards the vacuum pad. Adjusting the position is covered here while adjusting the air pressure is covered in Chapter 11 *Maintenance* (page 43) as it requires removal of the rear cover.

Blow Tube Assembly P/N: .14018-LT

Adjusting the Blow Tube Position The air tube is just to function as an assist. The label will want to curl away from the vacuum pad for various reasons and the blow tube is to ensure that it lays back and flat against the pad for the vacuum to hold it until application.



As a starting position, center the air stream on the width of the label and within the first 1/4 of the length of the label. Fine tune as required. Tighten clamp on blow tube after adjustment.

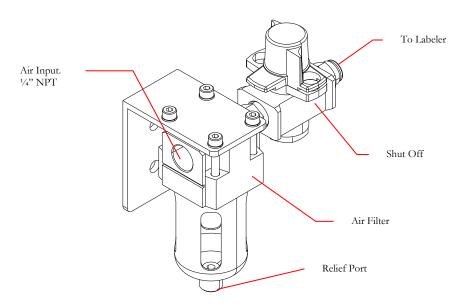
Chapter

Pneumatic System

Air Filter and Shut-Off

Assembly P/N: .A1247-02

The air filter and shut off valve is located at the back of the stand and is positioned so that you can bleed you air lines before introducing air into the label system. Loveshaw has placed a Lock Out style shut off on the system for your safety.



You will need to provide the appropriate fitting for your air connections to the unit. The connection port is ¹/₄" NPT.



You must disconnect air before draining any collected water.

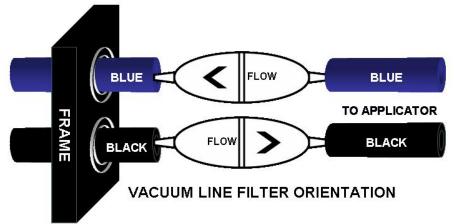
Air Regulator - P/N: .A1247-03

The air pressure is controlled by a regulator which is located behind the safety cover. Loveshaw recommends an operating pressure of 45 psi and it should have been set to this value at the factory. In the event that the regulator is not at this value; consult chapter 11, *Maintenance* (page 43).

Air Filters - P/N: 14199

For tamp applicators, there are two vacuum line filters on the exterior of the machine. They will keep most debris from entering the vacuum system and clogging the lines. The regularity that these filters need to be replaced will depend on the amount of dust and dirt in the air around the machine throughout its life.

The air filters also serve as in-line check valves for the vacuum and air assist. The air filters are one directional and it is important to install them in the proper direction relative to the air flow of the lines.



The blue lines are used for the vacuum and the air flows towards the vacuum generator (P/N: .14210-S) while the black hose is the pressure line to the pad for its air assist.

NOTE: For a Dual Tamp (swing arm) applicator, one or two vacuum filters are utilized for vacuum (blue air line). Further details on the pnoumatics can be found in chapter 11

Further details on the pneumatics can be found in chapter 11, *Maintenance* (page 43).



Features and Options

Optional: Light Warning Assembly

.LWA-LX-RH3C / LH3C

Low Labels Sensor - P/N: 14021 & 14022

Attached to one of the let off discs may be a low labels sensor. This mechanical sensor, wired to the control box, will let the unit know when the label stock is in small supply. When the labels run low a **yellow** indicator light will illuminate on the light tower.

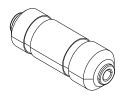
Light Tower

The light tower is an optional accessory that compliments the Low Labels Sensor. The light tower is designed to be mounted to the top of the labeler stand for highest visibility. The light tower will indicate **green** when no errors are present, **yellow** when either the labels or ribbon is in low supply or **red** when there is a total system fault and stop.

Optional: Cleanable Vacuum Filter

P/N: P3587-C1

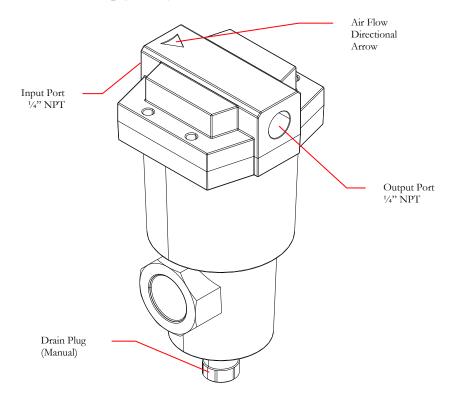
Loveshaw offers an air filter that can be opened and cleaned of dirt and debris.



Optional: Air Dryer

P/N: P3587-D1

Preceding your main-line air filter, you may find an air dryer. The air dryer is designed to contain and trap 99.9% of any incoming moisture and keep your system free of fluid contaminants.





Incoming air pressure should be disconnected before draining any fluid from the unit.

Optional: Spare Parts Kit (Straight Tamp) - 120/1/60

P/N: .SPK-LX8-T/B

Spare Parts Kits contain common wear parts conveniently in one kit. The list of components is as follows:

- .A1247-03 (Regulator Assembly Qty-1)
- E7367-BS2 (Background Suppressed Sensor Qty-1)
- A125SB-6/10-326 (Fuse, 6/10A, Qty-5)
- A125SB-3/4-326 (Fuse, 3/4A, Qty-5)
- P14606-S1 (Solenoid Coil Qty-1)
- M0055-022 (Tape Release Pin Qty-1)
- B0120-019 (Spring Collar Qty-1)
- .01956 (Let-Off Clamp Qty-1)
- B258824-02A (Rewind Clutch Qty-1)
- .14018-LT (Blow Tube Qty-1)
- B0190-041 (Dancer Bar Spring Qty-1)
- P4010-038 (Bulkhead Union Qty-1)
- 14199 (Vacuum Line Filter Qty 1 4 Pack)
- P14606-P1 (Piloted Air Valve Qty-1)
- .14210-S (Vacuum Generator Qty-1)

Optional: Spare Parts Kit (Straight Tamp) - 230/1/50-60

P/N: .SPK-LX8-TB-230

Spare Parts Kits contain common wear parts conveniently in one kit. The list of components is as follows:

- .A1247-03 (Regulator Assembly Qty-1)
- E7367-BS2 (Background Suppressed Sensor Qty-1)
- A125SB-1/2-326 (Fuse, 1/2A, Qty-5)
- A125SB-6/10-326 (Fuse, 6/10A, Qty-5)
- P14606-S1 (Solenoid Coil Qty-1)
- M0055-022 (Tape Release Pin Qty-1)
- B0120-019 (Spring Collar Qty-1)
- .01956 (Let-Off Clamp Qty-1)
- B258824-02A (Rewind Clutch Qty-1)
- .14018-LT (Blow Tube Qty-1)
- B0190-041 (Dancer Bar Spring Qty-1)
- P4010-038 (Bulkhead Union Qty-1)
- 14199 (Vacuum Line Filter Qty 1 4 Pack)
- P14606-P1 (Piloted Air Valve Qty-1)
- .14210-S (Vacuum Generator Qty-1)

Optional: Spare Parts Kit (Dual Tamp – Swing Arm) - 120/1/60

P/N: .SPK-LX8-DT

Spare Parts Kits contain common wear parts conveniently in one kit. The list of components is as follows:

- .A1247-03 (Regulator Assembly Qty-1)
- B0140-018 (Shock Absorber Qty-1)
- A125SB-6/10-326 (Fuse, 6/10A, Slow Blow Qty-5)
- A125SB-3/4-326 (Fuse, 3/4A, Slow Blow Qty-5)
- P14606-S1 (Solenoid Coil Qty-1)
- M0055-022 (Tape Release Pin Qty-1)
- B0120-019 (Spring Collar Qty-1)
- .01956 (Let-Off Clamp Qty-1)
- B258824-02A (Rewind Clutch Qty-1)
- .14018-LT (Blow Tube Qty-1)
- B0190-041 (Dancer Bar Spring Qty-1)
- P4010-038 (Bulkhead Union Qty-1)
- 14199 (Vacuum Line Filter Qty 1 4 Pack)
- .14210-S (Vacuum Generator Qty-1)
- F3MB (Bumper Rubber Qty-1)

Chapter

Control Operation

Overview

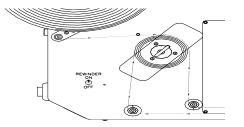
his section will cover the control aspects of the machine and how to change the cycle functions of the labeler. From here you will learn how to:

- Interface with the control panel.
- Change the cycle operation from 'Print-then-Apply' to 'Applythen-Print' modes.
- Use the 'Reprint' ability of the printer.

Power-On and Motor Control

The labeler takes its power from an auxiliary source provided by the OEM printer. When you turn the printer off, or on, will turn the control box off, or on. Turning the printer off will both clear the printer buffer and deactivate the control box but there will still be incoming power unless the power cord is removed from its source on incoming voltage.

The labeler has a motor used to rewind the waste paper that dispenses from the printer. This motor can be powered separately from the rest of the labeler. The switch to do this is located on the corner of the labeler near the rewind spindle.





Selector Switch (Straight Tamp Models Only)

The selector switch controls the mode that the printer is in and will determine what the machine does.

- **Run**: In this mode the labeler will run a complete cycle when the product sensor photo-eye is triggered. This will be the normal operational mode for your system.
- **Standby**: This is the Bypass or Idle mode that the machine must be in if you want to download labels. The mode is primarily designed for either a 'power on troubleshoot' or to 'bypass production' in the event that you do not desire to clear the printer buffer (loaded labels) and do not want to automate the label application, at the time.
- **Feed**: This will dispense or (Jog) a printed label onto the pad. This function can be used in troubleshooting and is of key importance if you are using the system in *Apply-then-Print* mode (see 'Changing Modes' in the next section).

NOTE: The Dual Tamp (Swing Arm) Applicator utilizes a Touch Screen in place of the selector switch and product timer to control labeler function.



Touch Screen (Dual Tamp model) NOTE: A newer version HMI Color Touch Screen will have four Function Keys (F1 –F4) below the bezel. These have no function. The screen navigations are <u>the same</u> as described within the manual with some minor enchantments for better data input for the Product Delay and Applicator Delay timers.

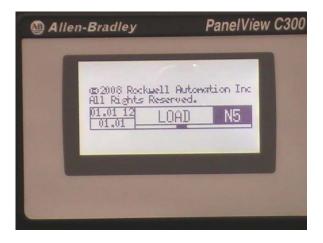


The Dual Tamp utilizes a HMI (Human Machine Interface) touch screen to select modes (dual tamp or single tamp), jog a label out on the applicator pad, show machine status and change product / applicator delays.

The unit also has five save areas for each mode for a total of ten save areas. These areas are handy when you are running different boxes/products that require different product delays (label placement) or application delays (the time the applicator arm needs to be engaged on the product).

Upon energizing the labeler, the touch screen can take up to 90 seconds to load information from the PLC before it can be utilized. The following screens will be displayed on power up.





After the touch screen initializes, the main application screen will appear. This screen will allow stopping and starting of the labeler as well as jogging a label out on the applicator pad. The mode button will allow you to access the modes, save areas and timers and the display will give machine status (i.e printer fault, machine ready etc.)

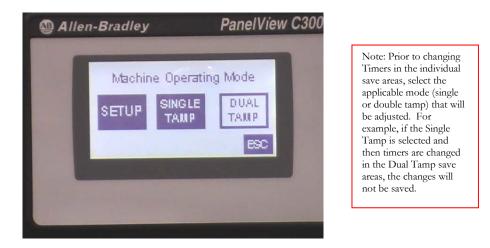


The main screen will come up in the Stop condition. If you want to jog a label, depress the Jog button which will momentarily turn black, then return to the Stop. To run the labeler, depress the Run button (run button will toggle to black / stop button will turn white). If you accidentally go from the Start condition right to the Mode button (bypassing the Stop), the following screen will appear:

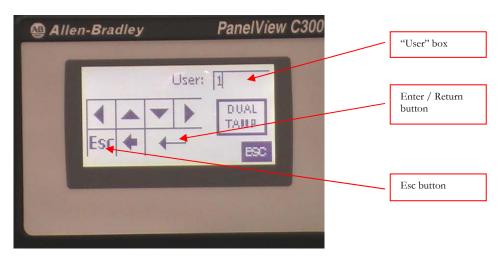


Depressing the OK (F1) button will clear this screen and return it back to the main screen. Remember, always go to the Stop

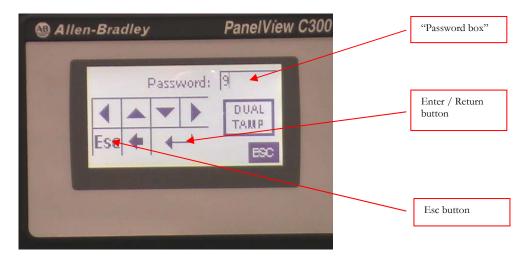
button first prior to going to another function. Once back to the main screen, depress the Mode button to enter other functions. The next screen will appear.



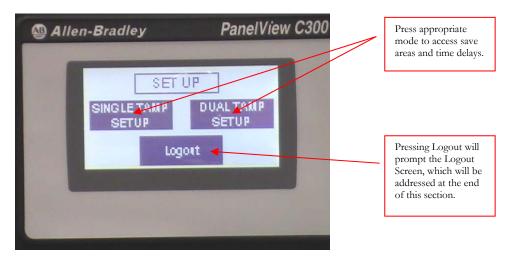
This screen will allow the labeler to be toggled between Single Tamp and Dual Tamp modes as well as enter the Setup menus. Note: When toggling between the Tamp modes, the PLC will use the last saved areas picked under each mode. For example, if save area 1 has been previously selected for Single Tamp mode and save area 3 was previously selected for Dual Tamp mode, these would be the areas for timing that the labeler would be utilizing. If a different save area or change of timer is desired, select the Setup button and the following screen will appear:



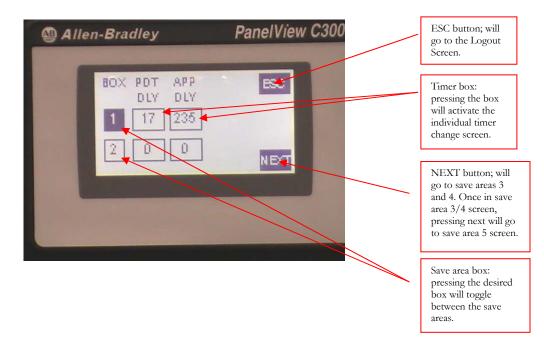
Press the "User" box to activate the area. Then use the arrow up key to place a one (1) in the box, then press the Enter button. The next screen will appear. NOTE: Pressing the Esc button will return to the previous screen.



Press the "Password" box to activate the area, arrow down or up to place a nine (9) in the box, then press the Enter button. The next screen (SETUP) will appear. NOTE: Pressing the Esc button will return you to the Machine Operating Mode screen.

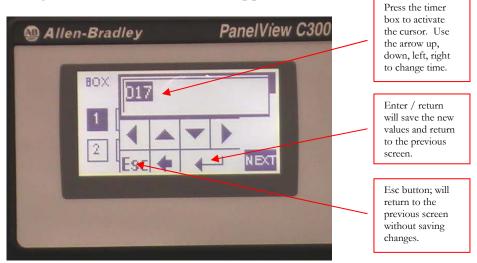


To change save areas or time delays in the Single Tamp mode, press the Single Tamp Setup button. The next screen will appear:

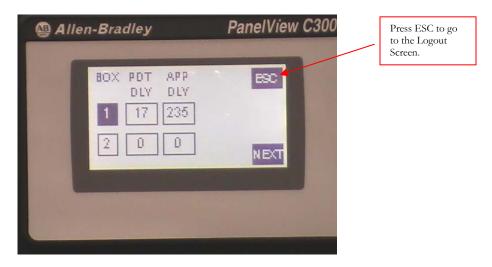


The PDT DLY (Product Delay) is the time from which the product sensor senses the leading edge of the product to when it tells the labeler to apply the label. The APP DLY (Applicator Delay) is the time the applicator arm is extended and engaging the product.

To change a time value, press the appropriate timer box to be changed and the next screen will appear:



Once the Enter/Return button is pressed, the changes will be saved and the previous screen will displayed.



If the desired timers are correct and the appropriate save area is selected, then press ESC which will display the Logout Screen.

Allen-Bradley	PanelView C300
LOGO	UT SCREEN
	LOGOUT" AND PRESS "ESC"
Logout	ESC

To completely logout (require User and Password screen to be completed to re-enter the set-up in the future), press Logout then ESC. The display will return back to the Main (Start/Stop/Jog) Screen. If easy re-entry is desired, then just press the ESC button, which will allow re-entry into the Set-up screens without prompting the User and Password screens.

Note: If the Dual Tamp Setup is selected instead of the Single Tamp Setup (in the SETUP screen), the save areas are very

similar and the timer change screens are identical as the Single Tamp screens. See below.

Allen-Bradley	PanelView C300
BOX PROD AP	PL PROD APPL Y1 DLY2 DLY2 5 D 100 NEXT

There are five screens each having a separate save areas. Pressing ESC will access the Logout Screen; pressing NEXT will scroll through the save areas. To change a timer value, follow the same procedures previously outlined.

Notice there are four timers required for the Dual Tamp mode.

PROD DLY1 (Product Delay 1) is the time delay between the product sensor sensing the leading edge of the product to when the applicator applies the first label; **APPL DLY1 (Applicator Delay 1**) is how long the applicator engages the product for the first label prior to returning home.

PROD DLY2 (Product Delay 2) is the time delay after the applicator returns home until the next label is applied and **APPL DLY2 (Applicator Delay 2)** is how long the applicator engages the product (second label) prior to returning home.

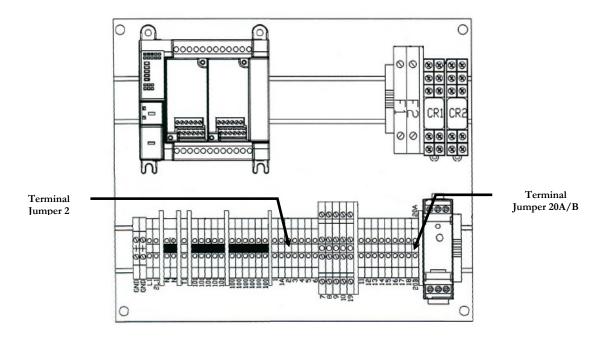


Changing Application / Repeat Print Modes

The labeler has two possible application modes of operation:

- Apply-then-Print: (<u>Terminal 2 Key Inserted</u>. This is the Shipping /Default Setting). Upon triggering the product sensor, the machine will activate the air cylinder and then print one label. Note: You will need to feed one label, via the feed selection, before automating the system.
- **Print-then-Apply**: (<u>Terminal 2 Key Removed</u>).Upon triggering the product sensor, the machine will print one label and immediately apply it.

In order to select the desired application mode of operation, you will need to open the control box and access the panel. See diagram below: (Note: SATO printer panel arrangement setup shown): *Note: A Zebra printer will have an additional terminal 21A/B*.



Terminal 2 is a keyed terminal that controls the mode of the labeler. With the key inserted (default operation) the machine runs in **Apply-Then-Print (A/P)** mode. Removing the Terminal Key (A124-AB-DPL) will change the function to **Print-Then-Apply (P/A)** mode.

Reprint Print Mode (all models)

(Terminal Key 20A/B Function)

Reprint mode allows you to download a quantity of One Label (Note: Two Labels required for a Zebra printer) into the printer and forces the labeler to continually print that label until another label is downloaded. (Note the printer needs to have the REPEAT PRINT MODE <u>enabled</u> in the printer menu in order to make this function correctly. Consult your specific printer manual on how to enable this setting.)

SATO Reprint Mode Setting

FOR SATO PRINTER: This function is enabled by inserting a Terminal Key (A124-AB-DPL) into terminal 20A/B (see illustration above) and enabling the repeat function in the printer menu (Refer to the SATO User's Manual for specific directions to change).

For a SATO Printer: Download a <u>single label</u> to the printer. Turn the selector switch to "RUN".

ZEBRA Reprint Mode Setting

FOR ZEBRA PRINTER: Terminal 20A/B stays in however remove the terminal key 21A/B. As with the Sato, enable the repeat function utilizing the menu system of the Zebra printer.

For a Zebra Printer: Download a quantity of (2) labels to the printer. Turn the selector switch to "feed" (if in A/P mode, leave label on the pad, if in P/A mode, manually remove the label). Turn the selector switch to "RUN".

Chapter

Maintenance

I n normal operation, the labeler is simply turned-on and products are moved past its sensor equipment and the labeler responds by printing and applying a label. There may be times when a part of the machine wears down and part of the machine's operation fails. This section will guide you through servicing and maintaining your labeler. Many of these operations will require access to components behind the protective cover and should be done by a technician with access to tools.

Pneumatic System

Do NOT Use Lubricated Air!

The label machine is designed to run on clean dry air. The components used are not specified for use with oils of any kind.

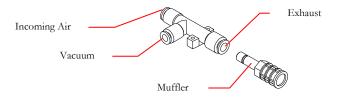


Do NOT Try to service the machine with the air engaged.

Your labeling system was factory installed with a lock-out ready disconnect valve. Air should be deactivated from the system prior to servicing the lines or components and even if lock-out procedures are not used in your plant, it is recommended that the valve be at least tagged to prevent anyone from energizing the system while work is performed on it.

Loss or Decline of Vacuum

The most likely cause of poor vacuum performance may be due to blocked filters. In the event that the vacuum filters are clean, check the exhaust mufflers of the venturi vacuum generators (**P/N: .14210-S**). The exhaust mufflers may have collected some particulate that the filter missed. Simply removing it and making sure that it is clear will improve performance.



Blow Tube Pressure

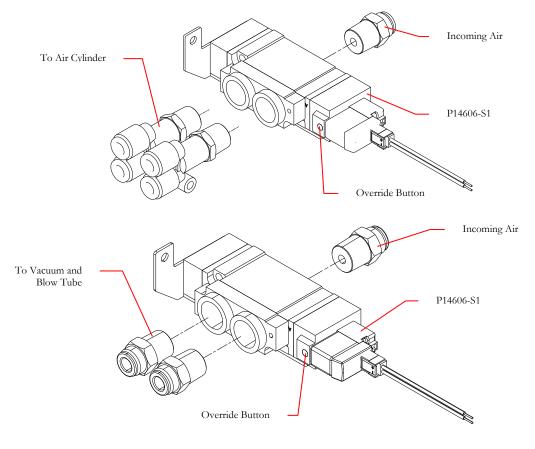
The Blow Tube (**P/N: .14018-LT**) that guides the label onto the pad from the dispensing edge of the printer is regulated by a flow control. **DO NOT** increase air pressure to the system instead of adjusting this control.

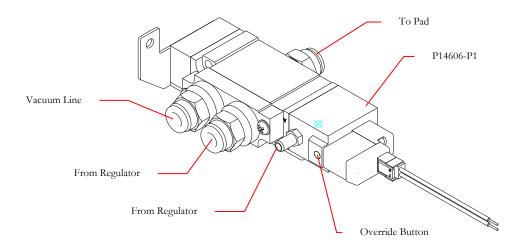
Air Pressure and Regulation

The incoming air pressure of the machine should not exceed 100psi. You may damage the pneumatic components if the pressure exceeds this value. Your labeler was optimized for performance at the factory using between 45 and 60 pounds of incoming air pressure.

Solenoids

The **Straight Tamp** labeler uses three solenoids of two different types to perform its operations. There is a typical 4-way solenoid coil (**P14606-S1**) and a piloted valve (**P/N: P14606-P1**) that operates the air assist. The **Dual Tamp** labeler uses only two of the (**P14606-S1**) solenoids. Each valve has a spring return override that can be depressed to determine functionality, diagnosis, and piping in conjunction with the pneumatic diagram in the next chapter.





Motor

Your label machine utilizes a synchronous motor and chain along with a slip clutch to rewind the waste paper from your label roll.



DO NOT Work on the Chain while Unit is Plugged In.

The motor does have an 'on/off' switch (see page 24) but it is best to make sure that power is off to the whole system and that the unit is unplugged before working on the motor or chain drive.

Lubrication

The motor (**P/N: 08872**) requires no lubrication and the chain will need very little lubricant over its lifetime. Over lubricating the chain may have adverse effects on the rewind clutch (see below). To lubricate the chain simply supply a few drops of machine or motor oil to the chain. The continuous run of the motor during normal operation will work the lubricant into the chain.

Slip Clutch

The slip clutch (**P/N: B258824-02A**) on the rewind spindle is a fixed spring tension. Make sure to keep the clutch dry and free of corrosives and oils. Over time the components of the clutch will wear and when the tension (80z-in torque) prevents the rewind from turning under weight, it should be replaced.

Chain Tension

The use of a slip clutch means that very little tension is desired on the system. The chain should have a little sag when properly installed.

Control Box

Your system uses an Allen-Bradley Micro830TM PLC to control its function along with a series of terminal blocks and relays. Enclosed with this manual is a copy of the PLC program for your reference. It is not advised that you alter this program unless you have Rockwell Software on your computer and are experienced with PLC programming.



The control box is supplied power by the 'on/off' switch on your OEM printer but it is best to make sure that power is removed from the whole system and that the unit is unplugged before working on the control panel.

All diagrams and schematics are located in the Service Chapter following.



Little David® warranty **For:** LABELING SYSTEMS

1 YEAR WARRANTY

(EXCEPT FOR MOVING PARTS WHICH ARE SUBJECT TO NORMAL WEAR, TEAR AND REPLACEMENT WHICH ARE WARRANTED ONLY TO BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP).

ABOVE WARRANTY EXCLUDES CUSTOMERS SELECTED OEM THERMAL TRANSFER PRINTER OR MATERIAL HANDLING SYSTEM. PRINTER AND/OR CONVEYOR WARRANTY AVAILABLE UNDER SEPARATE COVER.

*LIMITED WARRANTY – *LOVESHAW* WARRANTS ONLY THAT THE GOODS SOLD BY IT SHALL BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP, UNDER PROPER AND NORMAL USE AND MAINTENANCE, AS FOLLOWS: THE WARRANTY PERIOD SHALL COMMENCE AS OF THE DATE OF DELIVERY TO THE PURCHASER. THE OBLIGATION OF LOVESHAW UNDER THIS WARRANTY IS STRICTLY LIMITED TO THE COST OF REPAIRING OR REPLACING, AS LOVESHAW MAY ELECT, ANY PART OR PARTS THAT PROVE IN LOVESHAW'S JUDGEMENT TO HAVE BEEN DEFECTIVE IN MATERIAL OR WORKMANSHIP AT THE TIME THE GOODS WERE SHIPPED FROM LOVESHAW'S PLANT. ANY WARRANTY CLAIM NOT MADE IN WRITING TO LOVESHAW AT ITS HOME OFFICE WITHIN THE APPLICABLE WARRANTY PERIOD AND WITHIN 10 DAYS OF FAILURE WILL NOT BE VALID. THIS IS THE SOLE AND EXCLUSIVE REMEDY AVAILABLE UNDER THIS WARRANTY. UNDER NO CIRCUMSTANCES WILL LOVESHAW BE LIABLE FOR INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES.

IF REQUESTED BY LOVESHAW, PURCHASER SHALL RETURN ANY DEFECTIVE PART OR PARTS TO LOVESHAW'S PLANT, FREIGHT PREPAID. ALL WARRANTY PART REPLACEMENTS AND REPAIRS MUST BE MADE BY LOVESHAW OR A LOVESHAW DEALER AUTHORIZED TO HANDLE THE GOODS COVERED BY THIS WARRANTY. ANY OUTSIDE WORK OR ALTERATIONS DONE WITHOUT LOVESHAW'S PRIOR WRITTEN APPROVAL WILL RENDER THIS WARRANTY VOID. *LOVESHAW* WILL NOT ASSUME ANY EXPENSE OR LIABILITY FOR ANY REPAIRS MADE TO ITS GOODS OUTSIDE ITS WORKS WITHOUT ITS PRIOR WRITTEN CONSENT. THIS WARRANTY SHALL NOT APPLY TO ANY ITEM THAT HAS NOT BEEN USED, OPERATED, AND MAINTAINED IN ACCORDANCE WITH LOVESHAW'S RECOMMENDED PROCEDURES. LOVESHAW SHALL HAVE NO LIABILITY WHATSOEVER WHERE THE GOODS HAVE BEEN ALTERED, MISUSED, ABUSED OR INVOLVED IN AN ACCIDENT.

NO PERSON IS AUTHORIZED TO MAKE ANY WARRANTY OR TO CREATE ANY LIABILITY BINDING UPON LOVESHAW WHICH IS NOT STATED IN THIS WARRANTY. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES OF ANY KIND, EXPRESSSED OR IMPLIED, WHICH ARE HEREBY EXCLUDED. IN PARTICULAR, THE IMPLIED WARRANTY OF MERCHANTABILITY, AS WELL AS THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY EXCLUDED.

LOVESHAW

2206 Easton Turnpike, PO. Box 83 SOUTH CANAAN, PA 18459 570.937.4921 - 800.572.3434 - FAX 570.937.3229

LABEL CONVERTING SPECIFICATIONS

In order to insure the labeling machines function, the following label specifications are offered as part of this proposal. Seller recommends that Buyer include a copy of these specifications with Buyer's purchase order for labels from Buyer's label converter. There may be exceptions to these specifications, depending upon the particular label construction used.

- Labels shall be converted with 3 mm ± .13 mm minimum spacing between labels, and a minimum side gap of 1.5 mm ± .15 mm slit on each side of the label. Maximum media width is determined as appropriate for the print engine selected. Labels shall not be converted with perforations of other separations between labels.
- A standard minimum 76 mm ID core is recommended [101 mm or 152 mm ID cores may also be acceptable]. Standard maximum roll OD shall be 305 mm [rolls up to 406 mm may also be acceptable]. Cores shall be slit cleanly to the final media width, including tolerance, and shall be of such composition so as to resist crushing distortion. The roll end shall not be attached to the core with tape or adhesive.
- Labels shall be wound to the outside of the roll unless otherwise specified. The labels shall be cleanly die cut, waste removed with no nicks or marks to the outside label perimeter, and centered on the backing media. If possible [unless otherwise specified] the labels shall be oriented: (1) to feed the trailing edge perpendicular to the backing media edge; and, (2) to feed the label with its shortest dimension parallel to the feed path.
- There shall be no strike-through or fractures of the backing media by the label processing die which can be detected by ink or marker penetration after wiping. There shall be no tears or cuts on the backing media edges. The backing media shall be of a uniform density and thickness. It shall be sufficiently translucent as to assure reliable gap detection, given the label stock selected.
- All eye marks or sensing notches shall be located with the same tolerance as specified for the labels and located on the backing media as is appropriate for the print engine selected. Eye marks shall be opaque, of a uniform density, and a minimum of 6 mm in width by 3 mm in the feed direction. Sensing notches, if possible, shall be as small as practical and located away from the edge of the backing media.
- The label rolls shall not be wound so tightly as to cause the adhesive to bleed out from around the label edges nor so loosely as to cause roll telescoping. The labels shall be wound with consistent wind tension and shall be flat within 3 mm when measured from a reference surface.
- Where splicing is necessary in the label roll, splicing shall be consistent with the requirement of the automatic labeling machinery. Preferred splices, when required, shall be of a diagonal style, using a clear transparent pressure sensitive tape applied to the back side of the backing web only (non-release coated side). All factory splices shall be removed, unless they meet the preferred splice specification.
- All finished label rolls shall be appropriately marked for identification per customer requirements and shall be packed to assure that the rolls arrive clean, flat and without shipping damage.
- The label adhesive shall be tested thoroughly to insure the compatibility of the label to the Buyer's product and to have the proper amount of permanence or removability according to Buyer's specifications. All face stock and adhesive combinations are subject to testing for dispensability on automatic labelers prior to acceptance.



Assemblies and Schematics

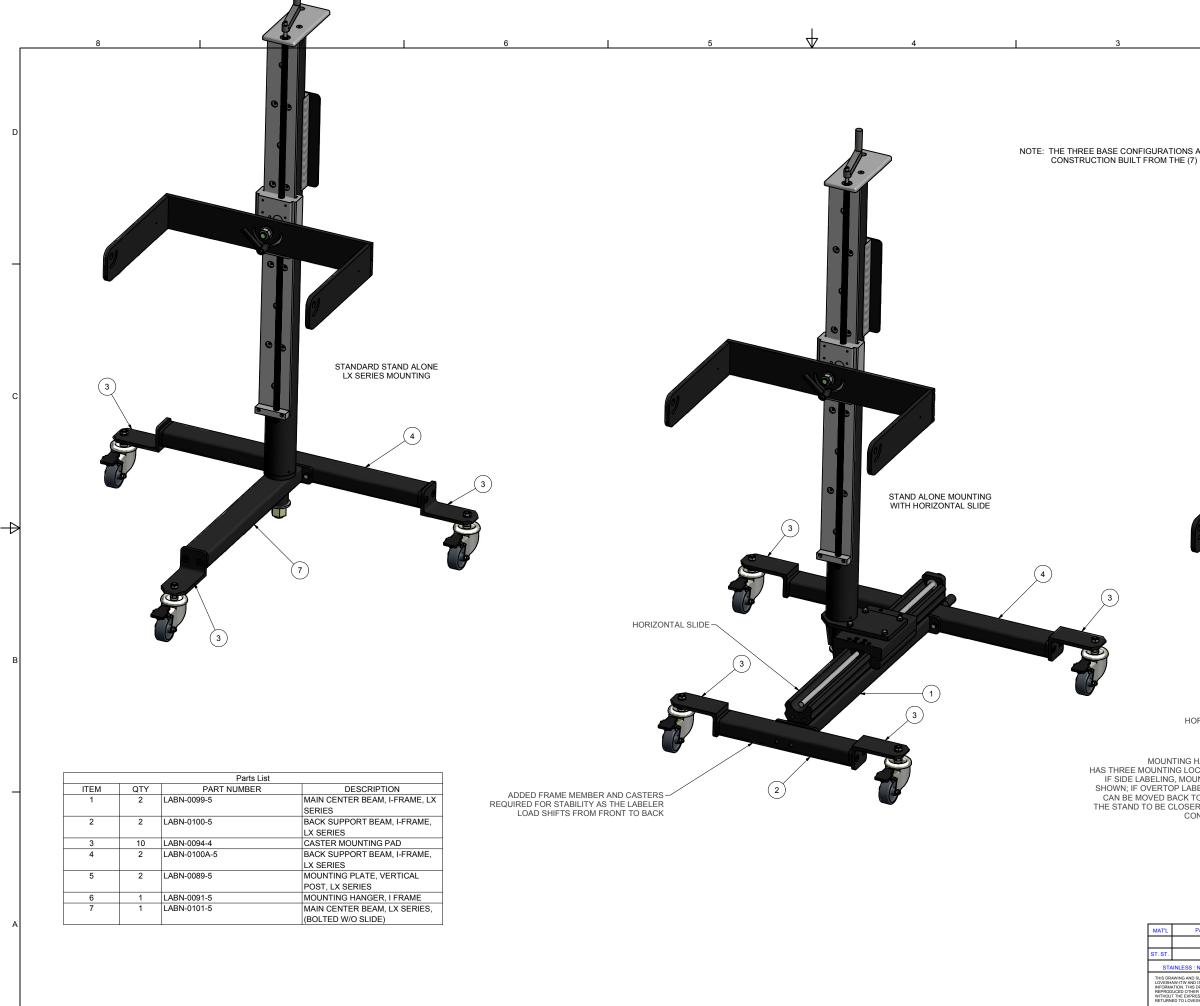
This section contains assembly drawings and schematics required to repair or rebuild your label machine. The drawings are organized under the following sub-headings.

- 1. Main Frame and Stand Assemblies (for all models)
- 2. Pneumatic Assemblies (for all models)
- 3. Pneumatic Diagram (Straight Tamp models)
- 4. Pneumatic Diagram (Dual Tamp/CW Swing Arm model)
- 5. Applicator Assemblies (Straight Tamp models)
- 6. Applicator Assembly (Dual Tamp/CW Swing Arm model)
- 7. Electrical Assembly and Schematics for Sato and Zebra Printers (Straight Tamp models)
- 8. Electrical Assembly and Schematics for Sato and Zebra Printers (Dual Tamp/CW Swing Arm model)
- 9. PLC Program (Straight Tamp models)
- 10. PLC Program (Dual Tamp/CW Swing Arm model)

MAIN FRAME AND STAND ASSEMBLIES

(FOR ALL MODELS)

			A						
_	4		3	<u>~</u>		2		11	
				\sim				REVISION HISTORY	
									BY KK
								A RELEASED 11/20/2012	
								Parts List	
		101 (4)			ITE	M O	TY PART NUMBER		
	* NOTE: ITEMS MARKED WITH AN ASTER ARE SHOWN FOR REFERENCE ONLY AN			\mathbf{i}	1		3 LABN-0094-4	CASTER MOUNTING PAD	
	NOT PART OF THE ASSY: .UMS-02	DARE			2		6 FFHSJ100B05	FHCS, 3/8-16 x 1.00 LG	-
					3		2 FSHSJ100B05	3/8-16 X 1.00 SHCS	-
					4		3 FLWSFP	LOCK WASHER 3/8	-
в					5		2 FHHSJ100P08	HH 3/8-16 x 1 LG.	В
			⋛┫║┝	7	6			BACK SUPPORT BEAM, I-FRAME, LX	-
		(12 *)		(11)	0		I LADIN-0100A-5	SERIES	
							3 OPC511LX	CASTER, SWIVEL	
					7				
					8				
					-		2 FLWSHP		
					10) 1	1 LABN-0101-5	MAIN CENTER BEAM, LX SERIES,	
		bo C		\frown			4 100070.00		-
)	(3)	1'				
				\sim	12			MOUNTING HARNESS, 15.5" ARM	
					OR 1			MOUNTING HARNESS, 12.5" ARM	
₽		20 *) 21			13			LABELER FRAME PLATE, RH	
Ч					OR 2			LABELER FRAME PLATE, LH	_
					14		2 MLT80-041	PIVOT BUSHING	
			< 🍢 🕹	and a	15		2 202669	RATCHET HANDLE	
		15		(6)	16		2 FFWSFP	FLAT WASHER 3/8	
					17		2 FSBSN175B05	SHOULDER BOLT, 1/2 DIA. X 1.75 LG.	
				\prec	18		4 FFWSHP	FLAT WASHER 1/2"	
)(16)			19		2 FNLNSJP	3/8 Std NC Nylock Nut	
			7 7		20			HANDLE	
					21		-	5/16 LOCK WASHER	
					22	* 1	1 FFWSEP	5/16 FLAT WASHER	
			V U		9				
	4		(10)		7				
A				(7)					A
		(2)		MAT'L PART #	CAD FILE .UMS-02	idw ·	TOLERANCES UNLESS	LOVESHAW an ITW Company	v
				STD	PLOT DATE		OTHERWISE NOTED:	RT. 296, SOUTH CANAAN, PA.	'
	T T			ST. ST.	DRAWN DATE 11/28/	2012	.X =±.050	TITLE STAND ASSY IX SERIES	
)			DO NOT SCALE P	INC	CH .XX = ±.015 ANGLES ± 1/2 .XXX = ±.005	STAND ASST., EX SERIES	<i>,</i> ,
	(7)			STAINLESS : NO FINISH					——
	\bigcirc			THIS DRAWING AND SUBJECT MATTER THEI LOVESHAW-ITW AND IS TO BE TREATED BY INFORMATION. THIS DRAWING OR SUBJECT	MATTER THEROE SHALL NOT BE		.X =±1.0mm TRIC.XX =±.3mm .XXX =±.1mm MACH. FINISH		
				REPRODUCED OTHER THAN FOR YOUR OW WITHOUT THE EXPRESSED WRITTEN CONS	IN USE OR TO BE DISCLOSED TO ENT OF LOVESHAW-ITW AND WIL	DTHER		MATERIAL CHECKED	
				RETURNED TO LOVESHAW-ITW UPON REQU	JEST.		FRACTIONS ± 1/64	DRAWN KENK APPROVED	
	4	I	3	4		2		1	
				•					



I	2		1		
I	L		REVISION HIS REV DESCRIPTION A RELEASED	STORY DATE BY 11/3/2011 KK	
					D
S ARE ALL BO 7) FRAME PIE	LT TOGETHER CES.				
					_
					С
0		00			4
			IVEYOR INTEGRATED MOUN WITH HORIZONTAL SLIDE	ITING	
	3	6	WITTHORZOWAL SLIDE		в
ORIZONTAL S	SLIDE		2	3	
HARNESS DCATIONS; DUNTED AS BELING, IT TO ALLOW ER TO THE			(5)		
ONVEYOR.					
6			\cdot		
(3)				
PART #		V TOLERANCES UNLESS	LOVECTAW		A
STD	PLOT DATE DRAWN DATE 11/3/2011	OTHERWISE NOTED: .x =±.050	LOVESHAW RT. 296, SOUTH CA		
S : NO FINISH	DO NOT SCALE PRINT	INCH XX = ±.015 XXX = ±.005 X = ±1.0mm MACH.	DWG NO .CIP-LX-002	SCALE	
ND IS TO BE TREATED BY IS DRAWING OR SUBJECT HER THAN FOR YOUR OW PRESSED WRITTEN CONSE	REON IS THE EXCLUSIVE PROPERTY OF YOU AS CONFIDENTIAL PRPRIETARY MATTER THEROF SHALL NOT BE N USE OR TO BE DISCLOSED TO OTHER ENT OF LOVESHAW-ITW AND WILL BE JEST.	.X =±1.0mm METRIC .XX =±.3mm .XXX =±.1mm FINISH ✓	MATERIAL	CHECKED	
VESHAW-ITW UPON REQU	est. 2	FRACTIONS ±1/64	DRAWN KENK	APPROVED	l

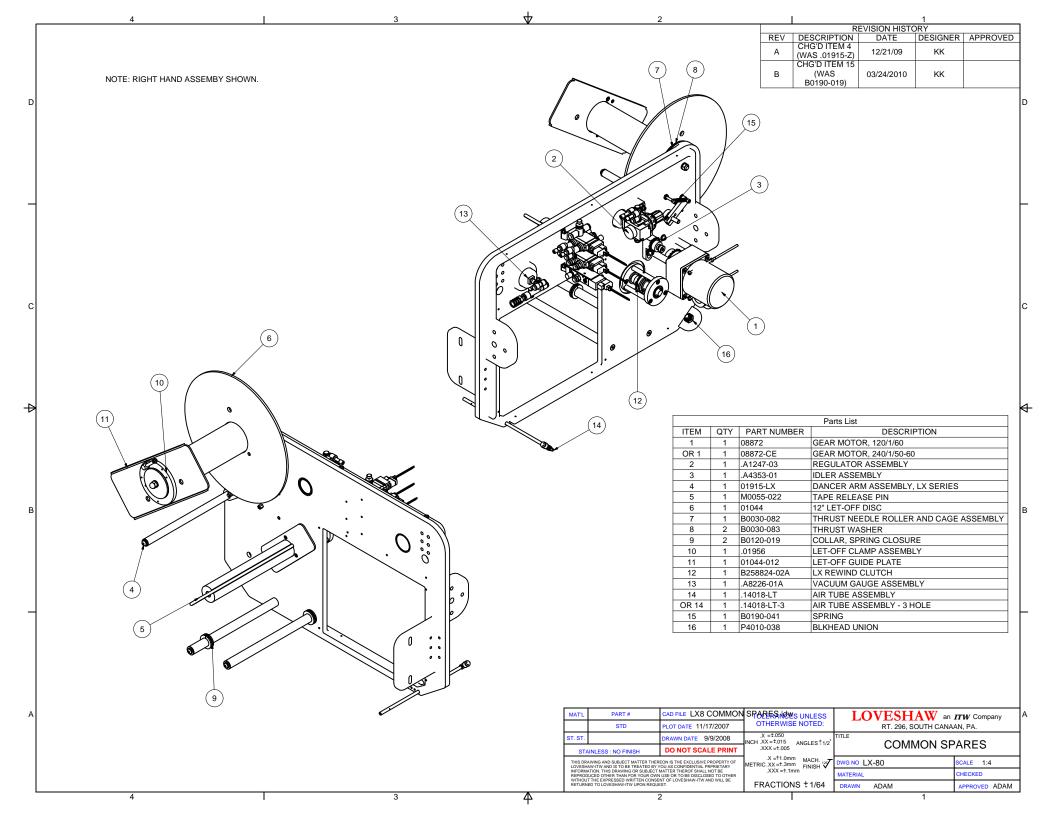
-		۵					4										۲	_				_		_	
	0HY DATE BY 10/19/2009 KK			N	ling	VESS		LDER	2"	3/8-16	8,	щ					/16"	an ITW Company	AN, PA.	ND WITH		SCALE N/A	CHECKED	APPROVED	
1	RELEASED 10/19			DESCRIPTION	LABELER MOUNTING STAND ASSY.	MOUNTING HARNESS	PIVOT BUSHING	1/2 × 1-3/4 SHOULDER BOLT	FLAT WASHER 1/2"	HEX NYLOK NUT 3/8-16	FLAT WASHER 3/8	RATCHET HANDLE	LABELER FRAME	PLATE, RIGHT HAND	LABELEK FKAME PLATE. LEFT HAND	HANDLE	FLAT WASHER, 5/16"	OVFSHAW and	RT. 296, SOUTH CANAAN, PA.	MOUNTING STAND WITH	FRAME	tation		~	
_	A DE		Parts List	PART NUMBER			1						0			0		IOUT		тітсе	_	DWG NO LX	MATERIAL	DRAWN KENK	-
				QTY PART	1 .UMS-01	1 22-U03A	2 MLT80-041	2 FSBSN175B05	4 FFWSHP	2 FNLNSJP	2 FFWSFP	2 202669	1 B0080-880		1 10080-881	1 B0140-102	1 FFLSEP	ANCES UNLESS	ERWISE NOTED:	:.050 ±.015 ANGLES±1/2	=±.005 _+1 0mm	METRIC XX =* .3mm FINISH	(X =±.1mm	FRACTIONS 71/64	
2				ITEM	-	2	3	4	5	9	7	8	ი	(6 HO	10	11	CAD FILE LX80 Station R1. idm ERANCES UNLESS	2009 OTHE	19/2009 INCH .X =±.050 INCH .XX =±.015					I
														~				CAD FILE LX80 S	PLOT DATE 10/19/	DRAWN DATE 10/19/2009	DO NOT SCALE PRINT	HEREON IS THE EXCLUSIVE PRO	INFORMATION. THIS DRAWING OR SUBJECT MATTER THEROF SHALL NOT BE REPRODUCED OTHER THAN FOR YOUR OWN USE OR TO BE DISCLOSED TO OTHER WITHOUT THE EXPRESSED WRITTEN CONSENT OF LOVESHAW-ITW AND WILL BE	QUEST.	
Φ		C			-)					/	/	/ /	/	F	9		PART #	STD	N/A	STAINLESS : NO FINISH	WING AND SUBJECT MATTER TH W-ITW AND IS TO BE TREATED E	10N. THIS DRAWING OR SUBJE CED OTHER THAN FOR YOUR C THE EXPRESSED WRITTEN COT	D TO LOVESHAW-ITW UPON RE	⊢
3									/ 7	/	$\langle \langle \cdot \rangle$	/ Þ						MAT'L	N/A	ST. ST.	STA	THIS DRA	REPRODI	3 RETURN	
	-			E			/	RE	/ >)	(8)															
_		B	*					. /				-(·	4		ر د	ł	٢								
				(9)	0	// :::	0 :/ ø	./ 				^ہ													
4								•	/		~	6))											4	
		<u>(</u> \overline{\sigma})		4) ((3)) <u> </u>										A								
							I.																		

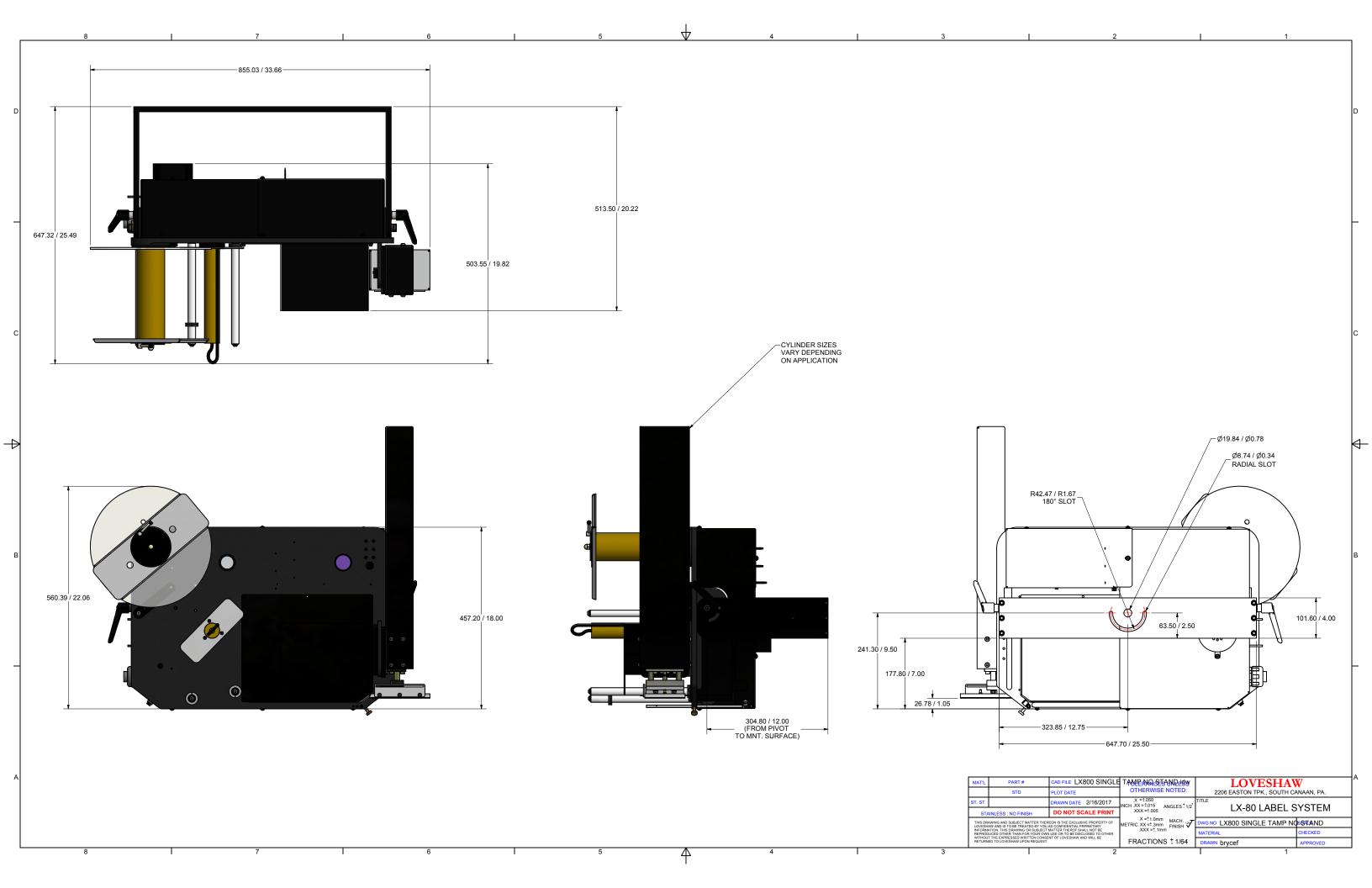
4 3 V 2 1 REVISION HISTORY REV DESCRIPTION DATI A RELEASED 11/29/2 * NOTE: ITEMS MARKED WITH AN ASTERISK (*), ARE SHOWN FOR REFERENCE ONLY AND ARE NOT PART OF THE ASSY: .UMS-02-C Image: Constraint of the assy: .ums-02-C Image: Constraint of the assy: .ums-02-C 4 2 FLWSEP LOCK WASHER 3/8	012 KK
* NOTE: ITEMS MARKED WITH AN ASTERISK (*), ARE SHOWN FOR REFERENCE ONLY AND ARE NOT PART OF THE ASSY: .UMS-02-C	012 KK
* NOTE: ITEMS MARKED WITH AN ASTERISK (*), ARE SHOWN FOR REFERENCE ONLY AND ARE NOT PART OF THE ASSY: .UMS-02-C	012 KK
* NOTE: ITEMS MARKED WITH AN ASTERISK (*), ARE SHOWN FOR REFERENCE ONLY AND ARE NOT PART OF THE ASSY: .UMS-02-C	
* NOTE: ITEMS MARKED WITH AN ASTERISK (*), ARE SHOWN FOR REFERENCE ONLY AND ARE NOT PART OF THE ASSY: .UMS-02-C ITEM QTY PART NUMBER DESCRIPTION 1 3 LABN-0094-4 CASTER MOUNTING PAD 2 6 FFHSJ100B05 FHCS, 3/8-16 x 1.00 LG 3 2 FSHSJ100B05 3/8-16 X 1.00 SHCS	
ARE SHOWN FOR REFERENCE ONLY AND ARE 1 3 LABN-0094-4 CASTER MOUNTING PAD 2 6 FFHSJ100B05 FHCS, 3/8-16 x 1.00 LG 3 2 FSHSJ100B05 3/8-16 X 1.00 SHCS	
NOT PART OF THE ASSY: .UMS-02-C 2 6 FFHSJ100B05 FHCS, 3/8-16 x 1.00 LG 3 2 FSHSJ100B05 3/8-16 X 1.00 SHCS	
2 6 FFTISS 100B05 FFTICS, 3/8-16 X 1.00 EG 3 2 FSHSJ100B05 3/8-16 X 1.00 SHCS	
$B = \frac{27^{*}}{(13^{*})} = \frac{27^{*}}{(13^{*})} = \frac{27^{*}}{(13^{*})} = 1100000000000000000000000000000000000$	
	3
7 3 OPC511LX CASTER, SWIVEL	
/(26*) //(26*)	
9 3 FLWSHP 1/2" LOCK WASHER	I
	I
	I
12 1 .W2273-02 UPRIGHT, LABELER STAND	
13 * 1 22-U03A MOUNTING HARNESS, 15.5" ARM	
OR 13 * 1 22-U03A-S MOUNTING HARNESS, 12.5" ARM	
14 * 1 B0080-880 LABELER FRAME PLATE, RH	
OR 14 * 1 B0080-881 LABELER FRAME PLATE, LH	
	I.
	€
20 20 FLWSEP LOCK WASHER 5/16	
21 20 FBHSH100P05 5/16-18 X 1 BHS 20 19 18 21 20 FBHSH100P05 5/16-18 X 1 BHS 22 * 2 MI T80-041 PIVOT BUSHING	
	I
15 24 * 2 FFWSFP FLAT WASHER 3/8	
25 * 2 FSBSN175B05 SHOULDER BOLT, 1/2 DIA. X 1.75 LG.	
27 * 2 FNLNSJP 3/8 Std NC Nylock Nut 9 4 28 * 1 B0140-102 HANDLE	I
A 9 1 5 4 28×1 B0140-102 HANDLE 29×1 FLWSEP 5/16 LOCK WASHER	—— I,
	—— ľ
(8) CALLED VING-02-C.I.UN TOLERANCES NOLESS	
STD PLOT DATE OTHERWISE RT. 296, SOUTH CANAAN, PA.	
ST.ST. DRAWN DATE 11/29/2012 INCH.XX=±015 ANGLES±1/2	RIES,
L(20) STAINLESS: NO FINISH DO NOT SCALE PRINT XXX=±.005 CONV_ MTG	
(2) (17) THIS DRAWING AND SUBJECT MATTER THEREON IS THE EXCLUSIVE PROPERTY OF UTTON MACH. 127 DWG NO. LIMS-02-C SCALE	
	ED
WITHOUT THE EXPRESSED WRITTEN CONSENT OF LOVESHAW-ITW AND WILL BE RETURNED TO LOVESHAW-ITW UPON REQUEST. FRACTIONS ± 1/64 DRAWN KENK APPRO	VED
4 3 Δ 2 1	
\mathbf{T}	

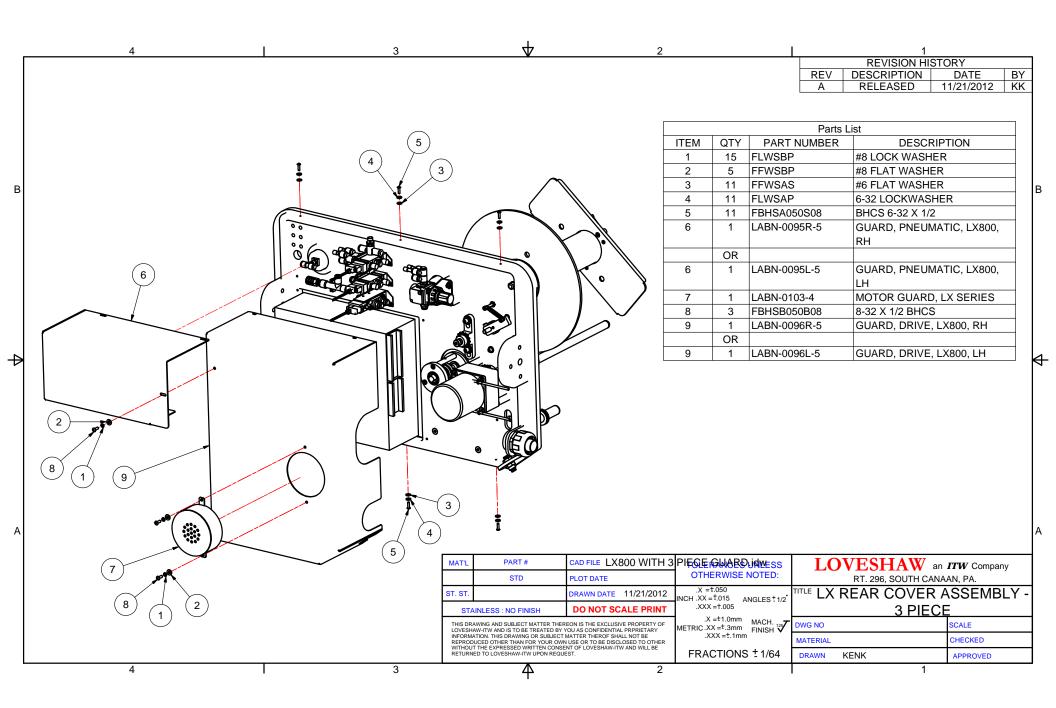
	4	I	1 . 3	4		2		I 1		
Г	Т			¥		2		REVISION HIS	STORY	
								REV DESCRIPTION	DATE B'	JY I
		\sim	<u>ق</u> ر					A RELEASED	11/29/2012 Ki	ΪK
			MI							
	* NOTE: ITEMS MARKED WITH AN AS	STERISK (*),						Parts List		
	ARE SHOWN FOR REFERENCE ONL	Y AND ARE			ITEM	QTY	PART NUMBER	DESCRIPTION		
	NOT PART OF ASSY: .UMS-02-CH	•			1	1	LABN-0099-5	MAIN CENTER BEAM, I-FRAME,	LX SERIES	
					2	1	LABN-0100-5	BACK SUPPORT BEAM, I-FRAM		
					3	3	LABN-0094-4	CASTER MOUNTING PAD		
_		17 *)			4	6	FFHSJ100B05	FHCS, 3/8-16 x 1.00 LG		_
в	(22^{*}) $(19^{*})(23^{*})$ (23^{*})	\checkmark			5	2	FSHSJ100B05	3/8-16 X 1.00 SHCS		В
					6	16	FLWSFP	LOCK WASHER 3/8		
			Ĩ∐		7	2	FHHSJ100P08	HH 3/8-16 x 1 LG.		
			ን (16)		8	1	LABN-0089-5	MOUNTING PLATE, VERTICAL F	POST, LX	
		k fi						SERIES		
					9	3	OPC511LX	CASTER SWIVEL		
					10	9	FHJNSNP	HEX JAM NUT 1/2-13		
					11	1	B0020-100-34	HORIZONTAL SLIDE, 34" (24" AD	DJ.)	
					12	3	FLWSHP	1/2" LOCK WASHER		
		(28 *)			13	1	LABN-0091-5	MOUNTING HANGER, I FRAME		
				(11)	14	4	FHHSJ125P05	3/8-16 X 1.25 HEX HEAD SCREW	V	
				(1) (5)	15	4	FSHSD050P05	10-32 X 1/2 SHCS		
₽		68		/ / (5)	16	1	.W2273-02	UPRIGHT, LABELER STAND		A
Ч					17 *	1	22-U03A	MOUNTING HARNESS, RH		
					OR 17 *	1	22-U03A-S	MOUNTING HARNESS, LH		
	$\langle \cdot , $	17			18 *	1	B0080-880	LABELER FRAME PLATE, RH		
		V			OR 18 *	1	B0080-881	LABELER FRAME PLATE, LH		
					19 *	2	MLT80-041	PIVOT BUSHING		
		8			20 *	2	202669	RATCHET HANDLE		
		Ć			21 *	2	FFWSFP	FLAT WASHER 3/8		
					22 *	2	FSBSN175B05	SHOULDER BOLT, 1/2 DIA. X 1.7	75 LG.	
	\sim (4)				23 *	4	FFWSHP	FLAT WASHER 1/2"		
	(10)			$\langle \langle \gamma n \rangle$	24 *	2	FNLNSJP	3/8 Std NC Nylock Nut		
	(12)				25	10	FHHSJ300P05	3/8-16 X 3.00 HEX HEAD SCREW	V	
					26 *		B0140-102	HANDLE		
Α					27 *		FLWSEP	5/16 LOCK WASHER		А
			(6)		28 *	1	FFWSEP	5/16 FLAT WASHER		
				MAT'L PART #	CAD FILE UMS-()2-CH id	W TOLERANCES UNLE	ss LOVESHAW		
	(10)		(25)	STD	PLOT DATE	<u>, , , , , , , , , , , , , , , , , , , </u>	OTHERWISE NOTE			
	(10) (10)		20				.X =±.050	R1. 296, 3001H CA		_
				ST. ST.	DRAWN DATE 11/2		INCH .XX = ±.015 ANGLES			<u>ا</u> د
			ļ	STAINLESS : NO FINISH	DO NOT SCALE		.XXX =±.005	<u> </u>		_
	(9)			THIS DRAWING AND SUBJECT MATTER THERI LOVESHAW-ITW AND IS TO BE TREATED BY Y	OU AS CONFIDENTIAL PRPF	RIETARY	.X =±1.0mm METRIC .XX =±.3mm VXX =±.1mm FINISE	DWG NO .UMS-02-CH	SCALE	
				INFORMATION. THIS DRAWING OR SUBJECT N REPRODUCED OTHER THAN FOR YOUR OWN	MATTER THEROF SHALL NO	T BE TO OTHER	.XXX =t.1mm	MATERIAL	CHECKED	
		(25) (25)		WITHOUT THE EXPRESSED WRITTEN CONSEL RETURNED TO LOVESHAW-ITW UPON REQUE	INT OF LOVESHAW-ITW AND IST.	WILL BE	FRACTIONS ± 1/6	64 DRAWN KENK	APPROVED	
L	4		3	<u> </u>		2		1		
				I						

	A						
4	3	↓		2		11	
l l	//。 /					REVISION HISTO	
						REV DESCRIPTION	DATE BY
	1					A RELEASED 1	1/29/2012 KK
* NOTE: ITEMS MARKED WITH AN ASTERISK (*),					F	Parts List	
ARE SHOWN FOR REFERENCE ONLY AND ARE			ITEM	QTY	PART NUMBER	DESCRIPTION	
NOT PART OF ASSY: .UMS-02-H			1	1	LABN-0099-5	MAIN CENTER BEAM, I-FRAME, I	LX SERIES
\frown			2	1	LABN-0100-5	BACK SUPPORT BEAM, I-FRAME	
(17 *)			3	4	LABN-0094-4	CASTER MOUNTING PAD	
			4		FFHSJ100B05	FHCS, 3/8-16 x 1.00 LG	
			5	4	FSHSJ100B05	3/8-16 X 1.00 SHCS	
			6		FLWSFP	LOCK WASHER 3/8	
$\left \right\rangle \left \left\langle 23^{*} \right\rangle \right\rangle$	۱.		7	-	FHHSJ100P08	HH 3/8-16 x 1 LG.	
(21)/(23)/(3)/(3)/(3)/(3)/(3)/(3)/(3)/(3)/(3)/(8		LABN-0100A-5	BACK SUPPORT BEAM, I-FRAME	
	(16)		9		LABN-0089-5	MOUNTING PLATE, VERTICAL P	,
			5	'		SERIES	
			10	4	OPC511LX	CASTER SWIVEL	
			11		FHJNSNP	HEX JAM NUT 1/2-13	
			12		B0020-100-34	HORIZONTAL SLIDE, 34" (24" AD	1)
			13		FLWSHP	1/2" LOCK WASHER	5.)
	9 (8)	14		FHHSJ125P05	3/8-16 X 1.25 HEX HEAD SCREW	,
	$ \downarrow \lor $	(12)	14		FSHSD050P05	10-32 X 1/2 SHCS	
		5	15	4	.W2273-02	UPRIGHT, LABELER STAND	
			_				
			17 *		22-U03A	MOUNTING HARNESS, 15.5" AR	
			OR 17 *		22-U03A-S	MOUNTING HARNESS, 12.5" AR	VI
		and the	18 *		B0080-880	LABELER FRAME PLATE, RH	
			OR 18 *		B0080-881	LABELER FRAME PLATE, LH	
		(3)	19 *		MLT80-041	PIVOT BUSHING	
			20 *		202669	RATCHET HANDLE	
			21 *		FFWSFP	FLAT WASHER 3/8	
			22 *		FSBSN175B05	SHOULDER BOLT, 1/2 DIA. X 1.7	5 LG.
			23 *		FFWSHP	FLAT WASHER 1/2"	
			24 *		FNLNSJP	3/8 Std NC Nylock Nut	
			25		FHHSJ300P05	HEX BOLT 3/8-16 X 3.00	
			26 *		B0140-102	HANDLE	
		G	27 *	1	FLWSEP	5/16 LOCK WASHER	
			28 *	1	FFWSEP	5/16 FLAT WASHER	
			CAD FILE .UMS	-02-H.i		LOVESHAW an	ITW Company
		STD	PLOT DATE		OTHERWISE NOTED:	RT. 296, SOUTH CANA	
	4)	ST. ST.	DRAWN DATE 1	1/29/2012	2 .X =±.050 INCH .XX =±.015 ANGLES±1/	, I™LE STAND ASSY., LX S	SERIES, W
	\sim	STAINLESS : NO FINISH	DO NOT SCAL	E PRIN	VVV ± 005	HOR. SLI	
	(4)	THIS DRAWING AND SUBJECT MATTER THERE	ON IS THE EXCLUSIVE B	ROPERTY OF	.X =±1.0mm MACH		SCALE
	10	LOVESHAW-ITW AND IS TO BE TREATED BY YO INFORMATION. THIS DRAWING OR SUBJECT M	U AS CONFIDENTIAL PR	PRIETARY OT BE	METRIC.XX = 1.3mm FINISH V		
\sim		REPRODUCED OTHER THAN FOR YOUR OWN I WITHOUT THE EXPRESSED WRITTEN CONSEN	JSE OR TO BE DISCLOSI T OF LOVESHAW-ITW AN	D TO OTHER	2	MATERIAL	CHECKED
		RETURNED TO LOVESHAW-ITW UPON REQUES	эт.		FRACTIONS ± 1/64	DRAWN KENK	APPROVED
4	3			2		I 1	

	4	I	з 🗸	2	1	1	
		Parts List			REV DESCRIPT	REVISION HISTORY	
ITEM	QTY PART NUMBER		_		A 08-232		W.M.
1 or 1	1 B0080-880 1 B0080-881	LABELER FRAME PLATE (RIGHT HAND) LABELER FRAME PLATE (LEFT HAND)	-		B ADDED	LH 10/14/2009 KK	
2	1 M0035-0030	5/16-18 THREADED ROD	NOTE: RIGHT HAND ASSEMBLY SHO	OWN.	C CHG'D ITE		
3	1 M0060-011	LET OFF SPINDLE	-		01915-		
4	1 01530	LET OFF TUBE CAP	-		D ADDED 33	& 34 03/29/2010 KK	-
5	1 M0060-001	LET OFF ROLLER INSERT RETAINER	-		E ADDED 3	3-35 11/21/2012 KK	
6	1 .01960-80	REWIND GUIDE					
7	1 01810-LT	REWIND SPINDLE					
8	1 .01915-LX	DANCER ARM ASSEMBLY, LX SERIES					
9	1 M0055-022	TAPE RELEASE PIN					
10	2 MLT80-030	TEFLON ROLLER	_				
11	2 M0030-051 1 01044	IDLER ROLLER SHAFT 12" LET-OFF DISC	_				
12 13	1 B0030-082	THRUST NEEDLE ROLLER AND CAGE ASSEMBLY	-				
14	2 B0030-083	THRUST WASHER	-				
15	2 FFHSE100P08	FLAT HD. CAP SCREW 1/4-20 x 1 LG.	-				
16	2 FFWSDP	FLAT WASHER 1/4	7				
17	2 FBHSE075S05	BUTT. HD. HEX HEAD, 0.25 UNC x 0.625					
18	3 FLWSDP	LOCK WASHER 1/4			\bigcirc		
19	2 B0120-019	COLLAR, SPRING CLOSURE			Ų		
20	5 FLWSEP	LOCK WASHER 5/16	4	5			
21	2 FHFNSHP	HEX NUT 5/16-18	-				
22	1 FHDNSHP	DOME NUT 5/16-18	-	\sim \sim (1)			
23 24	1 .01956 1 01044-012	LET-OFF CLAMP ASSEMBLY LET-OFF GUIDE PLATE	4				
24	2 FFHSA037P08	FLAT HD. SCREW 6-32 X 3/8	-		\bowtie	\$	
25	1 FSSSE050P05	SET SCREW 1/4-20 X 1/2			~, ~		
27	2 01601	BEARING SKF 16101				8	
28	1 MLT80-037	AIR CYLINDER MOUNT BRACKET			· Ý D		
29	1 .14018-LT	AIR TUBE ASSEMBLY	-		• •	🖋	
or 29	1 .14018-LT-3	AIR TUBE ASSEMBLY - 3 HOLE			*		
30	2 FFHSZ075P08	4-40 X 3/4 FHS	3		•	•••	
31	1 FSHSD087P05	10-32 X 7/8 SHCS			•		
32	1 B0220-001	STANDOFF STOP		2	Ð.		
33 OR 33	1 LABN-0064R-3 1 LABN-0064L-3	CLAMP BRACKET, BLOW TUBE, RH CLAMP BRACKET, BLOW TUBE, LH	(4)	32	0		
34	2 FSHSD050P05	10-32 X 1/2 SHCS					
35	1 FSHSB038B08	8-32 X 3/8 SHCS		(26) (27)	X)
00					\mathbf{X}		
		(12) (13) (1)			(15)		/
		(14)			· · · · · ·		
				X Z			
					$\langle (15) \rangle$		
							Q
			~ _///				
	(24)				19	- Alexandre	
	4				\backslash		
	\backslash		01		\backslash		
	\backslash		- //	\sim	34		,
			9		(10) (34	(29)	
			× // // X	(19) (10)	(3	34) (33)	
	<u></u>			\sim $^{-}$			
				(11)			
						(35)	
				(11)			
			(17) (16)				
	$\langle \bigcirc \rangle$						
	\checkmark						
	\		16 MAT'L	PART # CAD FILE LX-80_FRONT	INTERANCES UNLESS	LOVESHAW an ITW Con	mpany
	L			STD PLOT DATE 11/19/2007	OTHERWISE NOTED:	RT. 296, SOUTH CANAAN, PA.	
	(23)		ST. ST.	DRAWN DATE 9/5/2008	.X =1.050 NCH .XX = 1.015 ANGLES 1/2		
	(23)						/IDLY
	23)		STAINLESS	NO FINISH DO NOT SCALE PRINT	.XXX = ±.005		
	(23)		THIS DRAWING AND	SUBJECT MATTER THEREON IS THE EVOLUSIVE PROPERTY OF	.XXX = 1.005	DWG NO LX-80 SCALE 1	1:4
			THIS DRAWING AND LOVESHAW, THY AND REPRODUCED OTH REPRODUCED OTH	SUBJECT MATTER THEREON IS THE EXCLUSIVE PROPERTY OF IS TO BE TREATED BY YOU AS CONFIDENTIAL PRPRIETARY DRAWING OR SUBJECT MATTER THEROF SHALL NOT BE IS THAN FOR YOUR OWN USE OR TO BE DISCLOSE DTO OTHER	.XXX =1:005 .X =11.0mm MACH. 12 METRIC.XX =1:3mm FINISH 12 .XXX =1:1mm		
			THIS DRAWING AND LOVESNAVI-TW AND NEFORMATION. THE REPRODUCED OTH WTTPOUT THE EVER	SUBJECT MATTER THEREON IS THE EVOLUSIVE PROPERTY OF	.XXX = 1.005	DWG NO LX-80 SCALE 1 MATERIAL CHECKED	

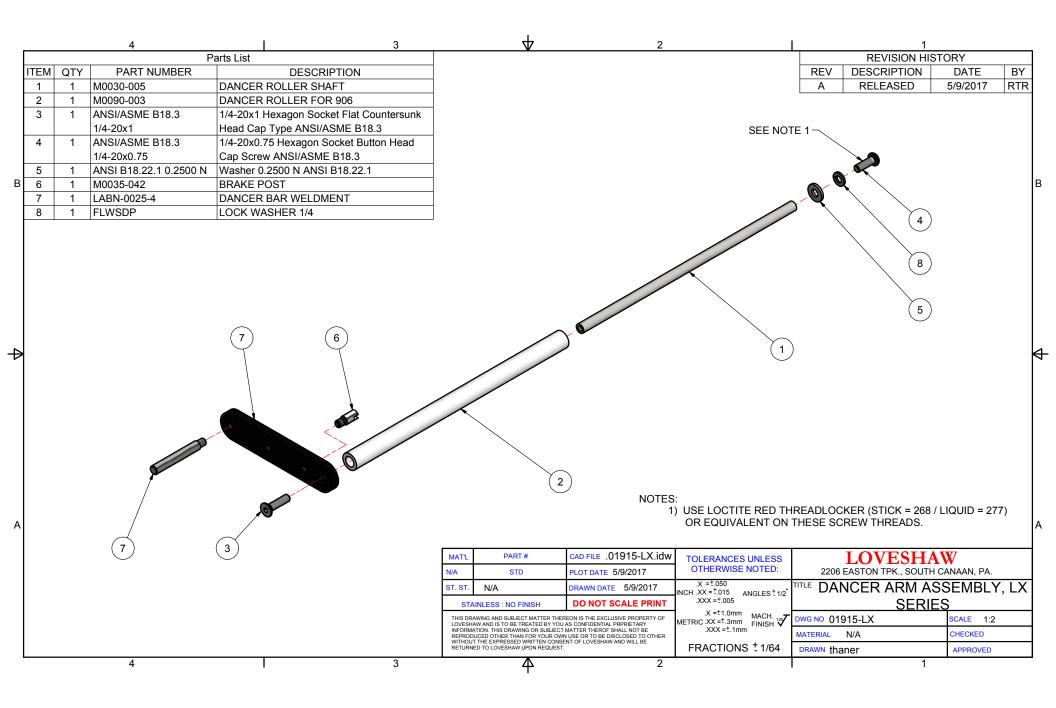






		26 2 11 13 23 17 4 20	A (B AD C CHG'D MC CHG	LABELER FRAME F LABELER FRAME F LABELER FRAME F GEAR MOTOR, 120 GEAR MOTOR, 240 IDLER ASSEMBLY OUTSIDE BEARING STAND OFF POST REWIND SPINDLE P05 FLAT HD. SCREW 10-32 B05 SOC. HD. CAP SCF P08 FLAT HD. CAP SCF P08 FLAT HD. CAP SCF LOCK WASHER 5/1 B05 SCC. HD. CAP SCF B05 SET SCREW 10-32 FLAT WASHER 5/1 B05 SCC. HD. CAP SCF BEARING SKF 16f1 2A LX REWIND CLUTC SPROCKET, 25-B-2 SPROCKET, 25-B-2 SPROCKET, 25-B-2 BUSHING BUSHING BUSHING P08 4-40 X 3/4 FHS 10-32 HEX NUT, PL S05 SOCKET HEAD CA 38 (NOT CHAIN ASSY (60 H	DESIGNER APPROVED A.L.S. W.M. KK W.M. KK KK KK KK KK CRIPTION PLATE (RIGHT HAND) PLATE (RIGHT HAND) PLATE (RIGHT HAND) PLATE (LEFT HAND) MP W/1/60 W1/160 MP W1/160 MP W1/160 MP W1/150-60 G BUSHING CAP G BUSHING CAP G REW 1/4-20 X 1/2 REW 1/4-20 X 1/2 REW 1/4-20 X 1.0 LG G G G X 3/8 G GEW 1/4-20 X 1.0 LG. G D1 CH X 1/2 REW 1/4-20 X 1.0 LG. X 1/2 CH X 1/2 REW 1/4-20 X 1.0 LG. X 1/2 CH X 1/2 KEW 1/4-20 X 1.0 LG. X 4 (50 HZ MACHINES) K K 4 (50 HZ MACHINES) K K TED P P SCREW
NOTE: RIGHT HAND ASSEMBLY SHOW	NN.	MATL PART # CAD FILE LX-80_1 15 5 5 5 15 5 11/19/21 5 15 10 PLOT DATE 11/19/21 ST.D PLOT DATE 19/92 STAINLESS : NO FINISH DO NOT SCALE 11/19/21 THE DRAWNO AND SUBJECT MATTER THEREOR SHALL NOT NOT SCALE 11/19/21 UNDERSMONTION THE DRAWNO OR SUBJECT MATTER THEREOR SHALL NOT NOT SCALE 11/19/21	18 007 007 01HERWISE I 008 xxx=1.050 NCH XX=1.05 A xxx = 1.050 xxx = 1.050	AUTED: RT. 296, SC ITITLE MECHAN MACH. DWG NO LX-80	AW an ITW Company DUTH CANAAN, PA. ICAL ASSEMBLY SCALE 1:4

			, P	1. 4		0				
Г	4	L	3	δ V		2			REVISION HISTORY	
									REV DESCRIPTION DAT	E BY
									A RELEASED 11/28/2	
					Γ				Parts List	
	* NOTE: ITEMS MARKED WITH AN ASTERI	SK (*)				ITEM	QTY	PART NUMBER	DESCRIPTION	
	ARE SHOWN FOR REFERENCE ONLY AND					1	3	LABN-0094-4	CASTER MOUNTING PAD	
	NOT PART OF THE ASSY: .UMS-02				_	2	6	FFHSJ100B05	FHCS, 3/8-16 x 1.00 LG	
					_	3	2	FSHSJ100B05	3/8-16 X 1.00 SHCS	
					-	4	3	FLWSFP	LOCK WASHER 3/8	
В					_	5		FHHSJ100P08	HH 3/8-16 x 1 LG.	В
		(12*)			-	6		LABN-0100A-5	BACK SUPPORT BEAM, I-FRAME, L	x
						Ũ			SERIES	
						7	3	OPC511LX	CASTER, SWIVEL	
	~	/ /	<u> </u>	ſ		8	9	FHJNSNP	HEX JAM NUT 1/2-13	
						9	2	FLWSHP	1/2" LOCK WASHER	
						10	1	LABN-0101-5	MAIN CENTER BEAM, LX SERIES,	
									(BOLTED W/O SLIDE)	
		(22 *)				11	1	.W2273-02	UPRIGHT, LABELER STAND	
				(3)		12 *	1	22-U03A	MOUNTING HARNESS, 15.5" ARM	
	(19 *)			/ (3) [OR 12 *	1	22-U03A-S	MOUNTING HARNESS, 12.5" ARM	
		20 * 21 *				13 *	1	B0080-880	LABELER FRAME PLATE, RH	
₽						OR 13 *	1	B0080-881	LABELER FRAME PLATE, LH	
						14 *	2	MLT80-041	PIVOT BUSHING	
				and and a	_	15 *	2	202669	RATCHET HANDLE	
			\sim	6	_	16 *	2	FFWSFP	FLAT WASHER 3/8	
		(15*	•)]		_	17 *	2	FSBSN175B05	SHOULDER BOLT, 1/2 DIA. X 1.75 L	G.
		*) / / // 💛			_	18 *	4	FFWSHP	FLAT WASHER 1/2"	
		$\langle \langle \rangle$			_	19 *	2	FNLNSJP	3/8 Std NC Nylock Nut	
		(16 *)		$\land \land $	\frown	20 *	1	B0140-102	HANDLE	
					$\begin{pmatrix} 1 \end{pmatrix}$	21 *	1	FLWSEP	5/16 LOCK WASHER	
				(4)		22 *	1	FFWSEP	5/16 FLAT WASHER	
						I				
			\sim							
A			(10)	$\overline{7}$						A
			0							
		(2)		MAT'L PART #	CAD FILE .UM	S-02.idw	TOLE	RANCES UNLESS	LOVESHAW an ITW (Compony (
	8			STD	PLOT DATE			HERWISE NOTED:	RT. 296, SOUTH CANAAN, PA	
		1 / (2)		ST. ST.	DRAWN DATE	11/20/2012	.X	=±.050 =±.015 ANGLES±1/2*	TITLE STAND ASSY., LX SE	
		7		I			INCH .XX	= ±.015 ANGLES ± 1/2* X = ±.005		
	(7)			STAINLESS : NO FINISH	DO NOT SCA				STAND ALONE	
	\bigcirc			THIS DRAWING AND SUBJECT MATTER LOVESHAW-ITW AND IS TO BE TREATE	THEREON IS THE EXCLUSIVE D BY YOU AS CONFIDENTIAL	PROPERTY OF PRPRIETARY	METRIC.	X =±1.0mm XX =±.3mm XXX =±.1mm FINISH V	DWG NO .UMS-02 SCALE	
				INFORMATION. THIS DRAWING OR SUB REPRODUCED OTHER THAN FOR YOUR WITHOUT THE EXPRESSED WRITTEN C	OWN USE OR TO BE DISCLO	L NOT BE DSED TO OTHER AND WILL BE			MATERIAL CHECK	ED
				RETURNED TO LOVESHAW-ITW UPON F	REQUEST.		FR/	ACTIONS ± 1/64	DRAWN KENK APPRO	OVED
-	4	[3	Ą		2			1	
				· ·						



PNEUMATIC ASSEMBLIES

(FOR ALL MODELS)

	4		I	3		$\mathbf{\Phi}$	2			1		1		
ſ		Parts List				•					ISION HISTO			
	TEM QTY PART NUMBER		DESCRIPTION	_				REV	DESCRIP		DATE	DESIGNEF	APPROVED	
	1 1 08056-SS	SINGLE (1) HO		_				A	08-19		9/25/08	A.L.S.	W.M.	_
	or 1 1 08056-SS-3	THREE (3) HOL						В	ADDED 3-		12/21/2009	КК		
	2 1 FSSSD037B05	10-32 X 3/8 SE		_					1001					
	3 1 P6010-007A		OL ELBOW - METER IN	_										
В				(1				~) R	2				В
A		(3)												4
А		E CONTRACTOR OF												A
				м	IAT'L	PART #	CAD FILE .14018-LT.idw	TOLERANCE	ES UNLESS	L	DVESH	AW an r	TW Company	1
					\neg	STD	PLOT DATE 11/19/2007	OTHERWIS	E NOTED:			OUTH CANAA		
				ST	r. st.		DRAWN DATE 8/29/2008	.X =±.050		TITLE				-
						ESS : NO FINISH	DO NOT SCALE PRINT	INCH .XX = ±.015 .XXX = ±.005	ANGLES ± 1/2		AIR TU	BE ASSE	EMBLY	
								.X =±1.0m METRIC.XX =±.3m		DWCNC	14010 T		CALE	-
				L	.OVESHAWING	W AND IS TO BE TREATED BY	YOU AS CONFIDENTIAL PRPRIETARY MATTER THEROF SHALL NOT BE N USE OR TO BE DISCLOSED TO OTHER ENT OF LOVESHAW-ITW AND WILL BE	METRIC .XX =±.3m .XXX =±.1	m FINISH		14018-LT			-
				H V	REPRODUCED	D OTHER THAN FOR YOUR OWN	N USE OR TO BE DISCLOSED TO OTHER ENT OF LOVESHAW-ITW AND WILL BE			MATERIAL			CHECKED	-
l			r	F	ETURNED TO	O LOVESHAW-ITW UPON REQU	EST.	FRACTIO	NS ±1/64	DRAWN	ADAM		APPROVED ADAM	
	4		I	3		4	2			I		1		

Image: constraint of the second se	4	3		2				1	
	A							ORY	
1 <td>\sim</td> <td></td> <td></td> <td></td> <td>RE</td> <td></td> <td></td> <td>DESIGNER</td> <td></td>	\sim				RE			DESIGNER	
B IS AND 3 HOLE 122/12/2009 KK Image: Constraint of the second constraint of the seco					A		ND 10/14/09	КК	
Image: constraint of the second s	0 (В	15 AND 3 H0	DLE 12/21/2009	КК	
Image: constraint of the second se				Г					
1 1 <th1< th=""> <th1< th=""> <th1< th=""> <th1< th=""></th1<></th1<></th1<></th1<>									1
Image: construction of the second									
1 1									,
1 1				-				(FI HAND)
1 1	//.								
Image: constraint of the second se	\sim	() ()			3 12	FLWSBP	#8 LOCK WASH	ER	
Image: constraint of the second se			(15)		-				
0 0			γ		5 2	FFWSBP	Type A Plain Wa	Isher	
Image: constraint of the second se		a los		2) [6 2	FSSSD037B05	10-32 X 3/8 SET	SCREW	
Image: Constraint of the second se		0			7 1	.A8226-01A	VACUUM GAUG	E ASSEMBL	Y
Image: Constraint of the second se				(5)	8 1	14018-I T			
Image: Section of the section of th	$((\circ)) $								
Image: Constraint of the second se									
Image: Constraint of the constraint			REALE						
Image: Constraint of the second se									
0 0				≰ (4)⊢		—			
Image: Status in the status			A (12)			—			
Image: Construction of the construle of the construction of the constructio									
Image: Stanless: NO FINISH Image: Stanless: NO FINISH <td< td=""><td></td><td>0</td><td></td><td></td><td></td><td></td><td>PILOTED VACU</td><td>UM/BLOW SC</td><td>DLENOID COI</td></td<>		0					PILOTED VACU	UM/BLOW SC	DLENOID COI
10 10 <td< td=""><td></td><td></td><td></td><td>(3) (4)</td><td>15 1</td><td>P6010-002</td><td>FLOW CONTRO</td><td>L, IN-LINE 1/4</td><td>4"</td></td<>				(3) (4)	15 1	P6010-002	FLOW CONTRO	L, IN-LINE 1/4	4"
MATL PART # CAD FILE LX-80_PNEUM ATIGLIDMANCES UNLESS OTHERWISE NOTED: LOVESHAW an ITW Company RT. 296, SOUTH CANAAN, PA. ST. ST. DRAWN DATE 9/9/2008 INCH XX = 1055 XXX = 1055 ANGLES ± 1/2 XXX = 1055 TITLE PNEUMATIC ASSEMBLY STAINLESS : NO FINISH DO NOT SCALE PRINT INCH XX = 1055 XXX = 1.00m MACH. XXX = 1.00m WG NO LX-80 SCALE 1:4 Investment on theory shares theore share theory of the treated by you as convidential priprietary investment on the banknoo or subscropt of the treated by you as convidential priprietary investment on the banknoo or subscropt of the treated by you as converted by theore share theore share theore share theore share theore share theore share theore			3	4	٢	1. RIGHT HA 2. ITEM 14 IS	NOT REQUIRED F	FOR DUAL TA	
ST. ST. DRAWN DATE 9/9/2008 X = ±.050 INCH. XX = ±.015 ITTLE PNEUMATIC ASSEMBLY STAINLESS : NO FINISH DO NOT SCALE PRINT .XX = ±.015 ANGLES ± 1/2 ITTLE This DRAWING AND SLEVECT MATTER THEREON IS THE EXCLUSIVE PROPERTY OF INVERSIAWLITW AND IS TO BE TEASTED BY YOU AS CONFIDENTIAL PRPRETARY INVESSIAWLITW AND IS TO BE TEASTED BY YOU AS CONFIDENTIAL PRPRETARY REPRODUCED OTHER THAN POR YOUR OWN USE ON TO BE DISCLOSED TO OTHER WITCH THE SUPERSED WRITTEN CONSENT OF TO BE DISCLOSED TO OTHER REPRODUCED OTHER THAN POR YOUR OWN USE ON TO BE DISCLOSED TO OTHER WITCH THE EXPRESSED WRITTEN CONSENT OF TO BE DISCLOSED TO OTHER REFURNED TO LOVESHAWLITW UPON RECUEST. MACH	4 3								
This DRAWING AND SUBJECT MATTER THEREON IS THE EXCLUSIVE PROPERTY OF LOVESHAW-ITW AND IS TO BE TREATED BY YOU AS CONFIDENTIAL PRPRIETARY INFORMATION. THIS BRAWING OR SUBJECT MATTER THEROF SHALL NOT BE REPRODUCED OTHER THAN FOR YOUR OWN USE ON TO BE DISCLOSED TO OTHER WITHOUT THE EXPRESSED WRITTEN CONSENT OF LOVESHAW-ITW AND WILL BE RETURNED TO LOVESHAW-ITW UPON REQUEST. MACH			ST. ST.	DRAWN DATE 9/9/2008	INCH .XX = ±.0	15 ANGLES ± 1/2	TLE .		
INFORMATION: THIS DRAWING OR SUBJECT MATTER THEROF SHALL NOT BE REPERPROJUCED OTHER THAN FOR YOUN OWN USE OF DIG ED BISCLOSED TO OTHER WITHOUT THE EXPRESSED WRITTEN CONSENT OF LOVESHAW-ITW AND WILL BE RETURNED TO LOVESHAW-ITW UPON REQUEST. INTERNAL CHECKED FRACTIONS ± 1/64 DRAWN ADAM APPROVED ADAM		~			.X =±	1.0mm MACH			
REPRODUCED OTHER THAN FOR YOUR OWN USE OR TO BE DISCLOSED TO OTHER WITHOUT THE EXPRESSED WRITTEN CONSENT OF LOVESHAW-ITW AND WILL BE RETURNED TO LOVESHAW-ITW UPON REQUEST. FRACTIONS ± 1/64 DRAWN ADAM ADAM APPROVED ADAM			INFORMATION. THIS DRAWING OR SUBJECT	MATTER THEROF SHALL NOT BE	METRIC.XX = .XXX				
RETURNED TO LOVESHAW-ITW UPON REQUEST. FRACTIONS ± 1/64 DRAWN ADAM APPROVED ADAM			REPRODUCED OTHER THAN FOR YOUR OW WITHOUT THE EXPRESSED WRITTEN CONS	IN USE OR TO BE DISCLOSED TO OTHER ENT OF LOVESHAW-ITW AND WILL BE		N		-	
			RETURNED TO LOVESHAW-ITW UPON REQU	JEST.	FRACT	IONS ± 1/64	DRAWN ADAM	Α	APPROVED ADAM

		2		-			REVISION F	1			_		
		RE	V [DESCRIP			DESIGNE	R APPROVED	_				
							-						
в	5				3						В		
-₽	V										\mathbf{A}		
						Parts List							
			(4)	ITEM QTY PA		PAF	RT NUMBER	DESCRIPTION			_		
				1	1	P14058-	58-S1		AIR FILTER				
					1	14405-B	05-B		AIR SHUT-OFF				
					1	P4010-0	27	FEMALE AIR CONNECTOR					
					1	P4000-0	D36 THREADED UN		lion				
					1	MLT80-C	038 REGULATOR MOUNT			IOUNT			
					4	FLWME	P	LOCK WASHER M4					
					4	FSHME	025P10 SHCS M4 X 0.7 X 25 LG.			X 25 LG.	A		
А	MAT'L	PART #	CAD FILE A1247-02.idw		RANCES UNLESS ERWISE NOTED:		LOVE	SH	AW and	an ITW Company			
		STD	PLOT DATE 11/19/2007	OTHER				AN, PA.					
	ST. ST	ST. ST. DRAWN DATE 7/30/2008 STAINLESS : NO FINISH DO NOT SCALE PRINT		.X =±.05 INCH .XX =±.0		NGLES ⁺ 1/2	TITLE						
	S			.XXX =±.	005	INGLLO - 1/2	AIR FILTER						
		INFORMATION. THIS DRAWING OR SUBJECT MATTER THEROF SHALL NOT BE REPRODUCED OTHER THAN FOR YOUR OWN USE OR TO BE DISCLOSED TO OTHER		METRIC.XX = ¹	.X =±1.0mm METRIC.XX =±.3mm FINISH VXX + 1 mm			DWG NO .A1247-02 SC					
	INFOR REPRO			.XXX =±.1mm			MATERIAL			CHECKED			
	WITHOUT THE EXPRESSED WRITTEN CONSENT OF LOVESHAW-ITW AND WILL BE RETURNED TO LOVESHAW-ITW UPON REQUEST.				FRACTIONS ±1/64		DRAWN ADAM			APPROVED ADAM			
L	•	2		4				1					

	4	3	$\mathbf{\Phi}$		2			1		_
							REVISION HISTO			
						REV DESCRIPT			APPROVED	_
						A 08-180		A.L.S.	W.M.	_
		ළිං	(4)			B 08-191	NA 4	A.L.S.	W.M.	-
		MM	χ			C ADDED ITE & NOT		KK		
В	M							<u> </u>	<u> </u>	в
A		2	3			 RIGHT HAND ASSEMI ITEM 4 IS ONLY REQU (LX80_DT) LABELER; LABELER. 	JIRED ON THE DUAL NOT THE TAMP (LX8			₽
		\mathbf{X}					Parts List			_
		æ∕		ITEM				ESCRIPTION		4
	$\ll \square$	»)		1	1		FEMALE AIR CO			_
		~//		2	1		REGULATOR WI			-
		-		3	1		FITTING, Y-DOU	BLE STACK		4
А				4	2		PLUG, 1/4"			A
		~				(SEE NOTE 2)				- ``
				-		<u>т</u> т				4
		\rightarrow	MAT'L PART #	CAD FILE A1247-0		TOLERANCES UNLESS	LOVESH			
			STD	PLOT DATE 11/19/2	007	OTHERWISE NOTED:	RT. 296, S	OUTH CANAAN	, PA.	
		سلمسل	ST. ST.	DRAWN DATE 8/1/2	2008	.X =±.050 INCH .XX =±.015 ANGLES ±1/2				1
	_		STAINLESS : NO FINISH	DO NOT SCALE		.XXX =±.005	REGULA	TOR ASS	SEMBLY	
						.X =±1.0mm METRIC .XX =±.3mm XXY = 1mm	A 1047 00			-
			THIS DRAWING AND SUBJECT MATTER THER LOVESHAW-ITW AND IS TO BE TREATED BY INFORMATION. THIS DRAWING OR SUBJECT	MATTER THEROE SHALL NOT	RE	METRIC.XX =±.3mm .XXX =±.1mm FINISH	DWG NO .A1247-03		ALE 1:1	-
			REPRODUCED OTHER THAN FOR YOUR OWN WITHOUT THE EXPRESSED WRITTEN CONSE	USE OR TO BE DISCLOSED T	O OTHER		MATERIAL		IECKED	4
			RETURNED TO LOVESHAW-ITW UPON REQUE	EST.		FRACTIONS ± 1/64	DRAWN ADAM	A	PPROVED ADAM	
	4	3	4		2	I		1		

		2		$\mathbf{\Phi}$			1			
ſ						REVIS	SION HISTO	DRY		7
				REV	DESCRIP		DATE	DESIGNER	APPROVED	
					<u>2200</u> 1		27112			
		2				I			1	
Б										
В										В
		ll l)				
					\square					
			H USO							
				(TE						
₽										Φ
							Parts List			
				ITEM	QTY PART			DESCRIPT	ION	-
				1	1 P3486			TEE, 1/4" HC		-
				2	1 P3010		PRESSUR		,ol	-
А	MAT'L	PART #	CAD FILE .A8226-01A.idv	TOLERANCE	S UNLESS			\mathbf{AW} an \mathbf{II}	W Company	A
		STD	PLOT DATE 11/19/2007	OTHERWISI	E NOTED:			OUTH CANAAN		
	ST. ST.		DRAWN DATE 8/27/2008	.X =±.050 INCH .XX =±.015	ANGLES ⁺ 1/2			AUGE A	SSEMBLY	
	STA	INLESS : NO FINISH	DO NOT SCALE PRINT	.XXX =±.005 .X =±1.0mn	,	.,				4
	LOVESHA	AW-ITW AND IS TO BE TREATED BY TION. THIS DRAWING OR SUBJECT		METRIC .XX =± .3mn .XXX =±.1m		DWG NO .A8	3226-01A		CALE 1:1	$\left \right $
	WITHOUT		ENT OF LOVESHAW-ITW AND WILL BE	FRACTION	L L		ADAM		PPROVED ADAM	-
l		2						P		L
		۷		<u> </u>			I			

					2			↓		1			_
				Pa	rts List					VISION HIST			_
	ITEM	QTY	PAF	RT NUMBER	D	ESCRIPTIO	N	REV DESCRIP		DATE	DESIGNEF	APPROVED	_
	1	1	P14	606-S1	SOLENO	ID COIL			EM 3	10/14/09	KK		-
	2	3	P40	10-027	FEMALE	AIR CONNE	CTOR						
	3	2		00-006	MUFFLEI	3							
			1						~				
В					ð	\frown		2) ()				в
							\sim						
4													Ø
А		_											A
,,			MAT'L	PART #	CA	DFILE .A765	-T_B-01/	.idvolerances unless		OVESH	\mathbf{AW} an \mathbf{V}	rw Company	l.
				STD	PL	OT DATE 11/19	/2007	OTHERWISE NOTED:			SOUTH CANAAI		
		S	T. ST.		DF	AWN DATE 9/1	6/2008	.X =±.050 INCH .XX =±.015 ANGLES±1/2	TITLE	ACUUM	/BLOW S	OLENOID]
			ST	AINLESS : NO FINI	SH D	O NOT SCALI	E PRINT	.XXX = ±.005			SSEMBL		
				AWING AND SUBJECT N				.X =±1.0mm METRIC.XX =±.3mm FINISH		A765-T/B-01		CALE 1:1	1
			LOVESH	AW-ITW AND IS TO BE	REATED BY YOU /	AS CONFIDENTIAL PRP FER THEROF SHALL NO	PRIETARY OT BE	METRIC.XX =±.3mm .XXX =±.1mm	MATERIAL			CHECKED	-
			WITHOL	DUCED OTHER THAN FO T THE EXPRESSED WR IED TO LOVESHAW-ITW	ITTEN CONSENT C	E OR TO BE DISCLOSEI OF LOVESHAW-ITW AND	D TO OTHER D WILL BE	FRACTIONS ±1/64					-
			REIURN	IED TO LOVESHAW-ITW					DRAWN	ADAM		APPROVED ADAM	
					2			4		1			

				2		\mathbf{A}			1			
			Pa	arts List				RE	VISION HISTO	DRY		
	ITEM	QTY	PART NUMBER	DESCRIPT	ION	REV	DESCRIP		DATE	DESIGNER	APPROVED	
	1	1	P14606-S1	SOLENOID COIL		A	ADDED IT		10/14/09	КК		
	2	1	P4010-027	FEMALE AIR CONN	IECTOR		, 5 & NC					-
	3	2	P4010-Y25	FITTING - Y BRANC	CH, 1/4" NP	РΤ		\bigcirc				
	4	2	P4010-007	PLUG, 1/4"				(5)				
			(SEE NOTE)					$\overline{\}$				
В	5	2	P0000-006	MUFFLER			2	7	h			в
Ā						LABEI LABEI	LER; THEY A LER AND TH	ARE US	A STANDARD ED ON THE EX L TAMP (LX80	XTENDED ST	ROKE TAMP	↓
A			MAT'L PART #	CAD FILE .A76	5-A_R-01A			L	OVESH	AW an IT	W Company	A
		L	STD	PLOT DATE 11/1	9/2007	OTHERWIS	SE NOTED:			OUTH CANAAN,		
		S	T. ST.	DRAWN DATE 9	/17/2008	.X =±.050 INCH .XX =±.015	ANGLES + 1/2	TITLE A	PPLY/RE	TRACT SO	OLENOID	
			STAINLESS : NO FINI	SH DO NOT SCA		.XXX =±.005			AS	SSEMBLY	/	
				IATTER THEREON IS THE EXCLUSIVE REATED BY YOU AS CONFIDENTIAL P		.X =±1.0m METRIC.XX =±.3m		DWG NO	.A765-A/R-01A	SC	ALE 1:1	
			INFORMATION. THIS DRAWING (REPRODUCED OTHER THAN FC	OR SUBJECT MATTER THEROF SHALL R YOUR OWN USE OR TO BE DISCLOS	NOT BE SED TO OTHER	.XXX =±.1	mm	MATERIAL	L	СН	ECKED	1
			RETURNED TO LOVESHAW-ITW	TTEN CONSENT OF LOVESHAW-ITW A UPON REQUEST.		FRACTIO	NS ±1/64	DRAWN	ADAM	AF	PROVED ADAM	1

4

2

1

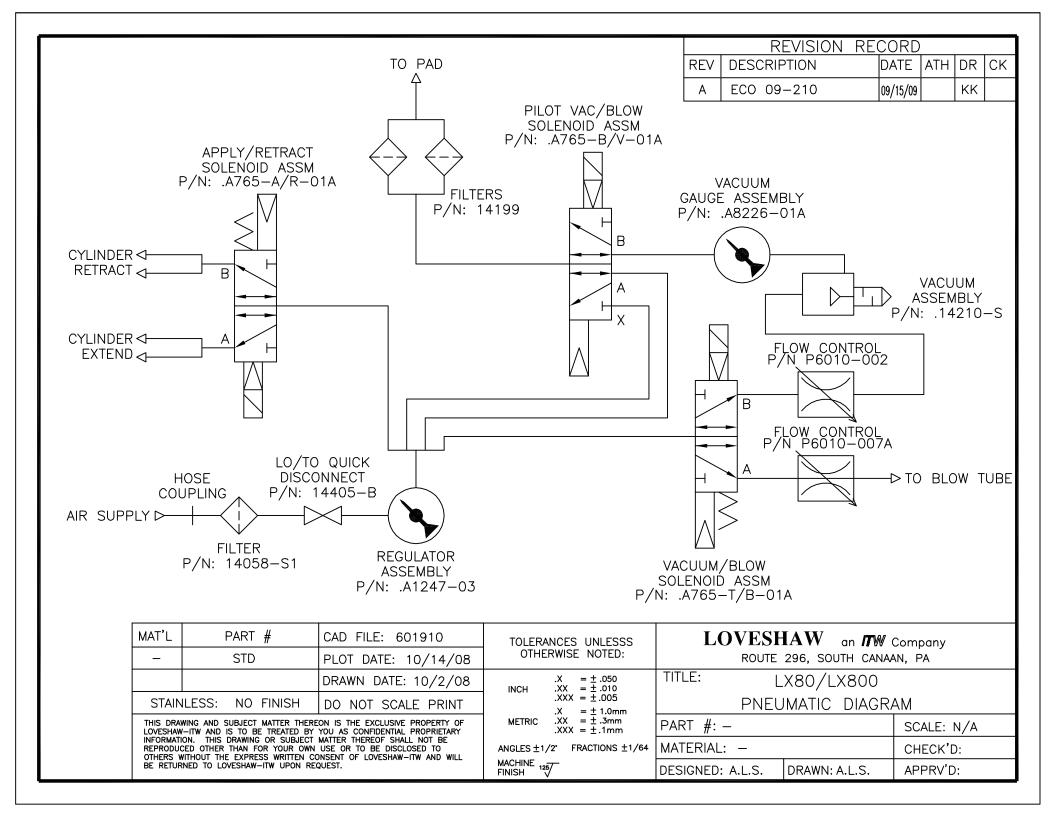
	2	$\mathbf{\Phi}$			1			
ĺ				RE\	ISION HISTO	DRY]
		RE	/ DE	SCRIPTION	DATE	DESIGNER	APPROVED	
		A			10/9/2008	A.L.S.		
		В		DED ITEMS ,5 & NOTE	10/14/09	КК		
	<u>O</u>							
		\mathbf{i}						
В			\ \					В
		(5)					
)						
		,						
₽								k-
r	$\begin{pmatrix} 2 \end{pmatrix}$	A.						
				, F	arts List			
	NOTE: THIS SOLENOID ASSY. IS ONLY USED	ITEM	QTY	PART NUMBE	7	DESCRIPTIO	N	
	ON THE TAMP (LX80_T) LABELER; NOT	1	1	P14606-P1	PILOTED S	SOLENOID CC	DIL	
	THE DUAL TAMP (LX80_DT) LABELER.	2	1	14030	FITTING			
		3	3	P4010-027	FEMALE A	IR CONNECT	OR	
		4	1	P0000-006	MUFFLER			
		5	1	P7584-125	1/8" NPT P	LUG		

А

MAT'L	PART #	CAD FILE .A765-B_V-01/	id WOLERANCES UNLESS		L	OVESHAW	an ITW Company
	STD	PLOT DATE 11/19/2007	OTHERWISE	NOTED:	RT. 296, SOUTH CANAAN, PA.		
ST. ST.		DRAWN DATE 10/9/2008 X =±.050 INCH .XX =±.015 ANGLES ±1/2		TITLE	PILOTED VA	ACUUM/BLOW	
STA	AINLESS : NO FINISH	DO NOT SCALE PRINT	.XXX =±.005			SOLENO	
		EREON IS THE EXCLUSIVE PROPERTY OF Y YOU AS CONFIDENTIAL PRPRIETARY	XXX =± 1mm		DWG NO	.A765-B/V-01A	SCALE 1:1
REPROD	UCED OTHER THAN FOR YOUR O	T MATTER THEROF SHALL NOT BE WN USE OR TO BE DISCLOSED TO OTHER			MATERIAL		CHECKED
	ED TO LOVESHAW-ITW UPON REC	SENT OF LOVESHAW-ITW AND WILL BE QUEST.	FRACTION	S ±1/64	DRAWN	ADAM	APPROVED ADAM
	2		<u></u>		-	1	-

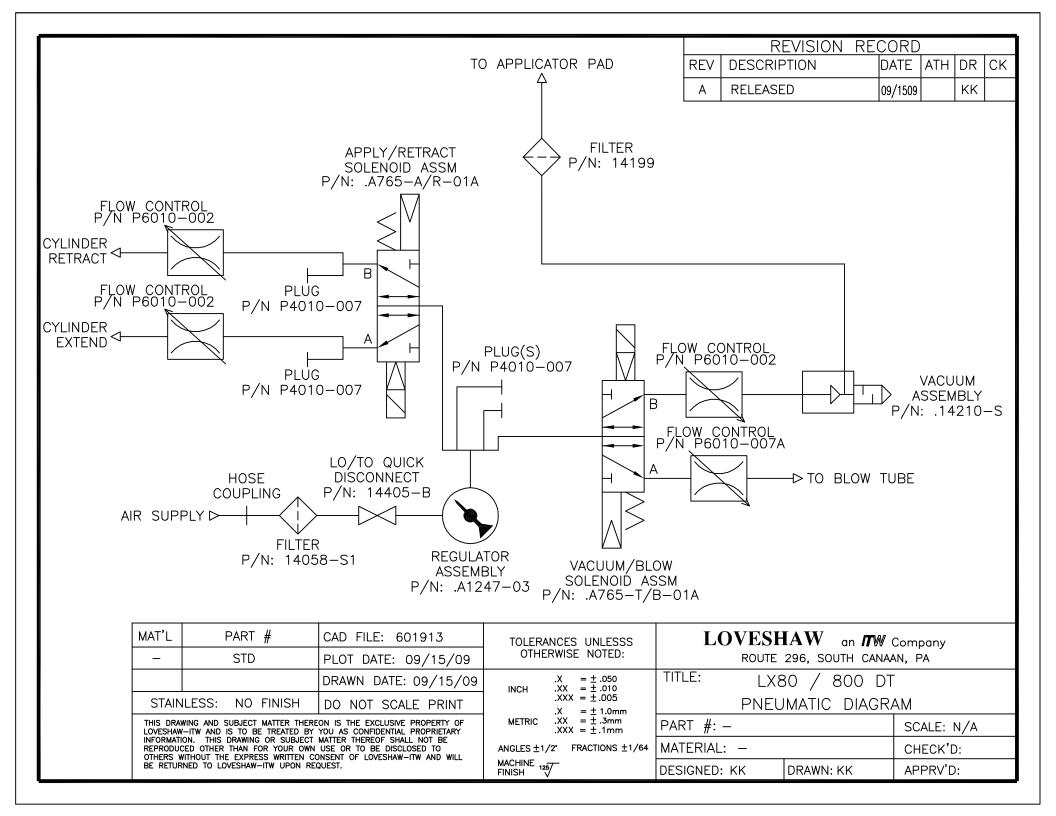
PNEUMATIC DIAGRAM

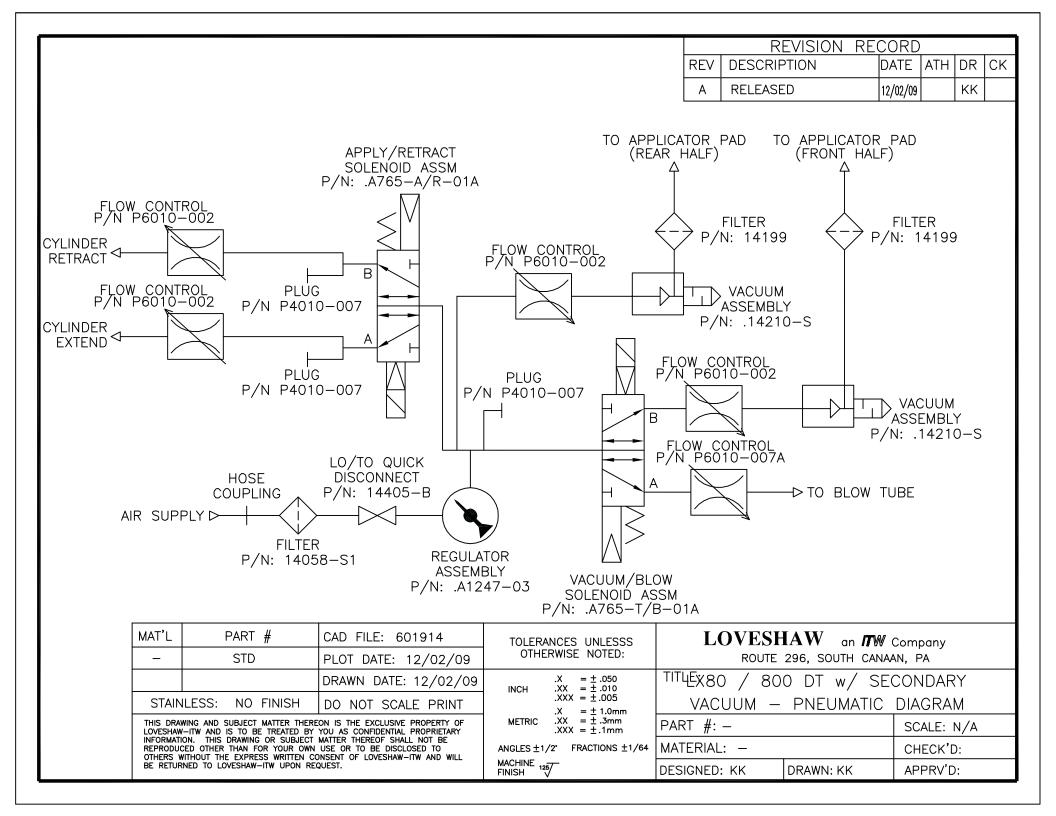
(STRAIGHT TAMP MODELS)



PNEUMATIC DIAGRAM

(DUAL TAMP – SWING ARM MODEL)

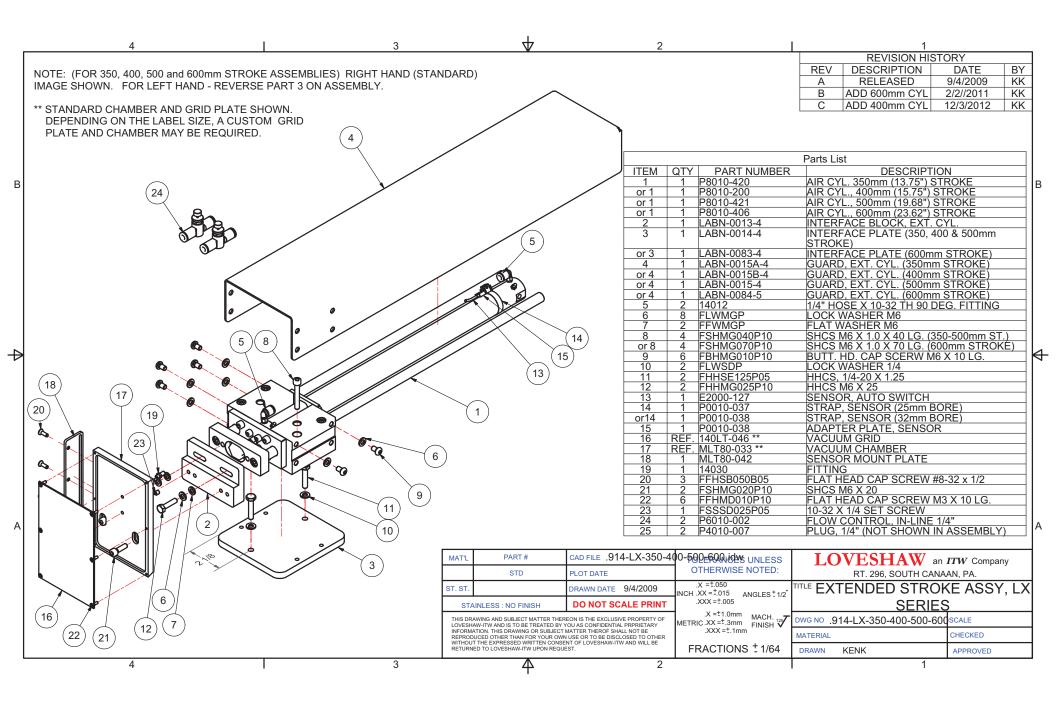




APPLICATOR ASSEMBLIES

(STRAIGHT TAMP MODELS)

	4	I	3	\forall	2				1	
							REV	REVISION HIS DESCRIPTION	STORY DATE	BY
								DESCRIPTION	10/31/2008	AR
							В	ADDED ITEM 10	04/27/2009	KK
в		3		3	1 0 9 9	QTY 1 1 1 1		Parts List	SCRIPTION YLINDER	<u>КК</u>
					6	3	FFHSB050B05	FLAT HD.CAP SC		
		(2)			7	2	FSHMG020P10	SOC. HD. CAP S		
	*	×			8	6	FFHMD010P10	FLAT HD. CAP S		LG.
А	8				<u> </u>	4	P4010-34S	LOW PROFILE E		
			г	MAT'L PART # C		vdo		LOTTOT	A XX77	
			-		AD FILE TP-LX80-40		ERANCES UNLESS HERWISE NOTED:	LOVESH		
			-			0 .X	(=±.050	RT. 296, SC	OUTH CANAAN, PA	۹.
			-		RAWN DATE 10/31/200	NCH .X	X = ±.015 ANGLES ± 1/2* XX = ±.005	=		
			-		DO NOT SCALE PRIN			2000		
				THIS DRAWING AND SUBJECT MATTER THEREO LOVESHAW-ITW AND IS TO BE TREATED BY YOU INFORMATION. THIS DRAWING OR SUBJECT MAY REPRODUCED OTHER THAN FOR YOUR OWN US	N IS THE EXCLUSIVE PROPERTY OF AS CONFIDENTIAL PRPRIETARY TER THEROF SHALL NOT BE	METRIC	.X =±1.0mm .XX =±.3mm .XXX =±.1mm MACH. 125 FINISH	DWG NO	SCALE	
				REPRODUCED OTHER THAN FOR YOUR OWN US WITHOUT THE EXPRESSED WRITTEN CONSENT RETURNED TO LOVESHAW-ITW UPON REQUEST	E OR TO BE DISCLOSED TO OTHER OF LOVESHAW-ITW AND WILL BE		ACTIONS ± 1/64	MATERIAL DRAWN AMY	CHECK	
				BETUBNED TO LOVESHAW-TOW UPON REQUEST			AL . LUNNS ! 1/64	DRAWN amyr		



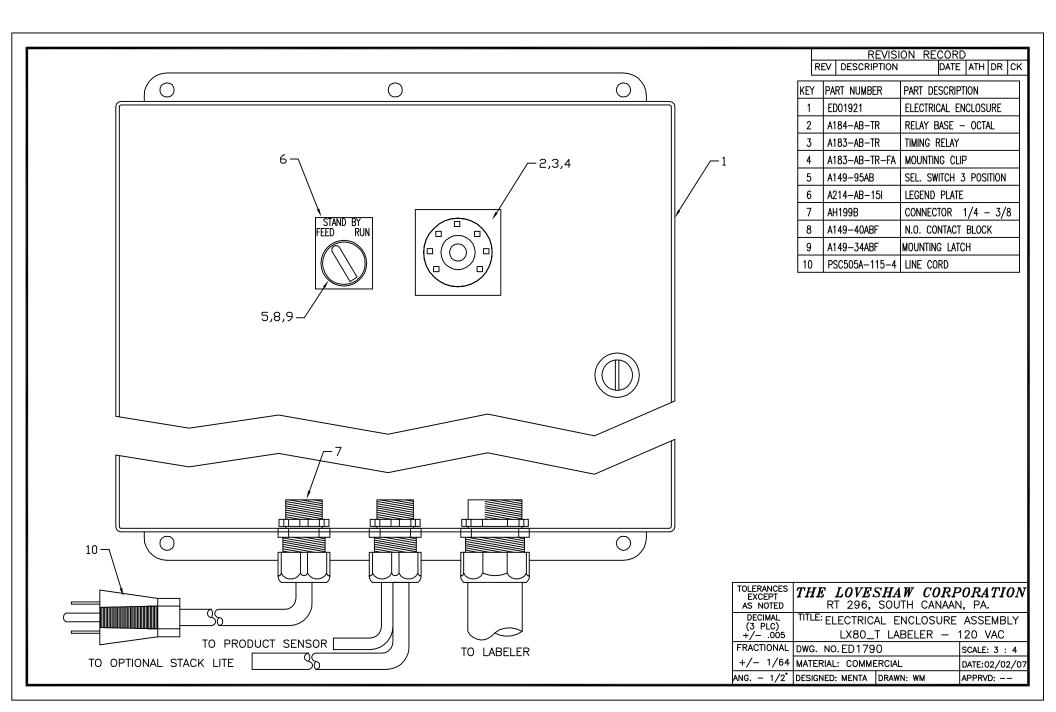
APPLICATOR ASSEMBLY

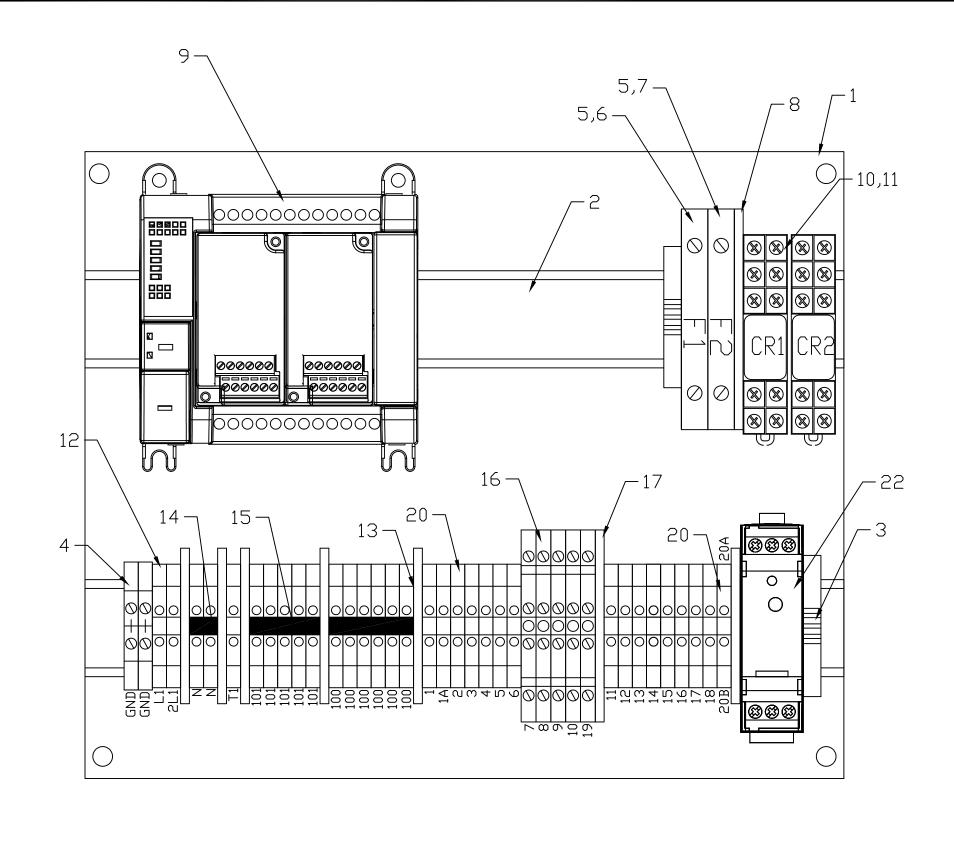
(DUAL TAMP – SWING ARM MODEL)

			4	3	↓ 2 I 1
Г					REVISION HISTORY
			Parts List		REV DESCRIPTION DATE BY
	ITEM	QTY	PART NUMBER	DESCRIPTION	A RELEASED 10/14/2009 KK
	1	1	R000-004/BLK	EXTRUSION, 1" X 3", BLACK	A NELEASED 10/14/2005 KK
	2	1	LABN-0017-4	MOUNTING PLATE, ROTARY	(40)
	3	5	B0020-016	DOUBLE T-NUT, 1/4-20 THREADS	Ч
	4	6	FBHSE075P05	BUTTON HEAD, 1/4-20 X 3/4	
	5	1	P8010-405	ROTARY ACTUATOR	
11	6	1	M0040-049	ACTUATOR BLOCK	
11	7	1	M0040-050	ACTUATOR STOP BLOCK	
1	8	2	FSHSE050P05	SOCKET HEAD SCREW, 1/4-20 X 1/2	f I
	9	4	FSHSE225P05	SOCKET HEAD SCREW, 1/4-20 X 2.25	
3	10	1	R0000-003/BLK	EXTRUSION, 1" X 1", BLACK	
	11	3	FHHSE075P05	HEX HEAD SCREW, 1/4-20 X 3/4	
	12	1	14000-XXX	APPLICATOR PAD, CUSTOMER SPECIFIC	
	13	4	FSHSD050P05	SOCKET HEAD SCREW, 10-32 X 1/2	
	14	2	FSHSB050P05	SOCKET HEAD SCREW, 8-32 X 1/2	
	14				
		26	FLWSDP	LOCK WASHER 1/4	
	16	1	M0020-267	FITTING ATTACHMENT PLATE	
	17	1	LABN-0001-4	APPL. PAD MOUNTING ARM	
	18	1	LABN-0003R-4	MOUNTING ANGLE (RIGHT HAND)	
	OR 18	1	LABN-0003L-4	MOUNTING ANGLE (LEFT HAND)	
	19	7	FBHSE037B05	Button Head, Hex, 0.25 UNC x 0.625	
	20	2	B0020-060	END CAP	
	21	1	B0020-005	END CAP	
	22	6	B0020-039	T-NUT, 3 HOLE	
	23	6	FBHSE050P05	1/4-20 BHS	
	24	8	FBHSE075S05	Button Head, Hex, 0.25 UNC x 0.625	
	25	1	LABO-0006-4	SUPPORT PLATE	
	26	1	LABN-0018-4	MOUNT, PROXIMITY SENSOR	
	27	3	FFHSE075P05	FLAT HEAD SCREW 1/4-20 X 3/4"	
	28	1	FSSSD025P05	10-32 X 1/4 SET SCREW, WITH PATCH	
	29	1	M0160-202	STOP CUSHION	
	30	1	FHHSJ250P05	HEX BOLT 3/8-16 X 2 1/2	
	31	1	FHFNSJP	HEX NUT 3/8-16	\sim
	32	1	LABN-0019R-4	BRACKET, SHOCK AND STOP (RIGHT HAND)	
	OR 32	1	LABN-0019L-4	BRACKET, SHOCK AND STOP (LEFT HAND)	
	33	1	A219-PF-6 and A219-PF-6/CON	PROXIMITY SENSOR WITH QD CONNECTOR	
	34	1	B0140-018	SHOCK ABSORBER	
	34	1	LABO-0005-3	STOP ADJUST BRACKET	
	36	1	F3MB		
	37	2	FHJNSHP	5/16-18 HEX JAM NUT	
	38	1	FHHSH125P05	HEX HEAD, FULL THREAD, 5/16-18 X 1.25	
	39	2	FFHMG012P10	FHCS M6x12 LG.	(15) (39) (34) (38)
	40	1	LABN-0020-4	GUARD, ROTARY	(15) (39) (35) (34) (38) NOTE: RIGHT HAND ASSEMBLY SHOWN.
41	41	3	FLWSCP	#10 LOCK WASHER	NOTE. NIGHT HAND ASSEMBLY SHOWN.
	42	5	FBHSD050P05	BUTTON HEAD, HEX, 10-32 x 0.5	
	43	3	14441	FITTING, ELBOW	
	44	1	P6010-004	FLOW CONTROL VALVE	MAT'L PART # CAD FILE .914-LX-DT.idw TOLERANCES UNLESS LOVESHAW an ITW Company
	45	2	AH206	WIRE / HOSE CRADLE	
	46	4	FSSSD050B05	10-32 X 1/2 SET SCREW	RT. 296, SOUTH CANAAN, PA.
	47	2	FLWSEP	LOCK WASHER 5/16	ST. ST. N/A DRAWN DATE 10/14/2009 X = ±0.50 INCLEDENT TITLE DUAL TAMP APPLICATOR
	48	2	FFWSEP	FW 5/16	INOT 30X = 3010 ANGLES : 1/2
	49	1	B0020-006	ECONO T-NUT 10-32	STAINLESS : NO FINISH DO NOT SCALE PRINT JXXX = 1:005 ASSEMBLY
	50	2	FSHSE200P05	1/4-20 X 2 SHCS	
	50	- 1	FSHSE050B08	SHCS, 1/4-20 x 1/2" LG.	LOVESHAW-ITW AND IS TO BE TREATED BY YOU AS CONFIDENTIAL PRPRETARY
		1			NFORMATION. THIS DRAWING OR SUBJECT MATTER THEROF SHALL NOT BE .XXX = t.1mm MATERIAL N/A CHECKED
	75 76	2	P5000-001 (4-PACK P/N 14199) P6010-002	VACUUM LINE FILTER FLOW CONTROL, IN-LINE 1/4"	WITHOUT THE EXPRESSED WRITTEN CONSENT OF LOVESHAW-ITW AND WILL BE
L	/6	2	1-0010-002	FLOW GONTROL, IN-LINE 1/4"	RETURNED TO LOVESHAW-ITW UPON REQUEST. FRACTIONS 1/64 DRAWN KENK APPROVED

ELECTRICAL ASSEMBLY AND SCHEMATICS FOR SATO AND ZEBRA PRINTERS

(STRAIGHT TAMP MODELS)



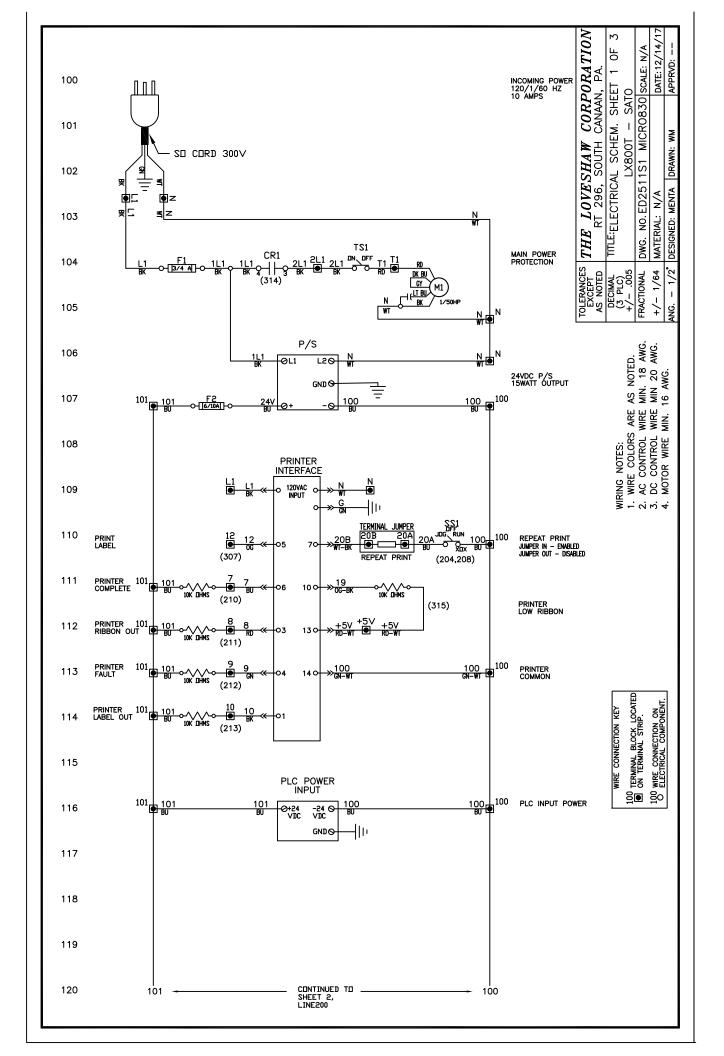


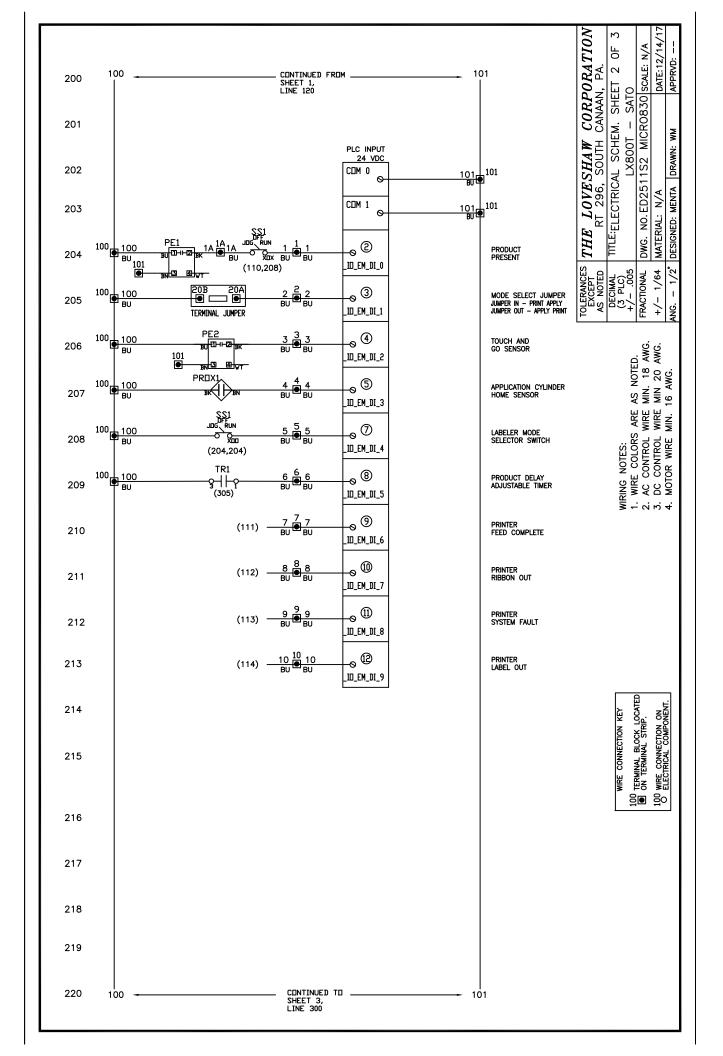
KEY	PART NUMBER
1	A100N-1210P
2	A209-AB-2
3	A128-AB-ERL35
4	A124-AB-JG4
5	A125BH-AB-DIN
6	A125SB-3/4-326
7	A125SB-6/10-326
8	A128B-AB16
9	A241AB-830-1
10	A184-AB-3
11	A183-AB-9
12	A124-AB-J3
13	A128-AB-PPJ3
14	A124-AB-CJS-2
15	A124-AB-CJJ-10
16	A124-AB-J3-RES1
17	A128-AB-PPJD3
18	A124-AB-MARK-ST
19	A124-AB-MARK-DT
20	A124-AB-J3P
21	A124-AB-DPL
22	A268PS-22

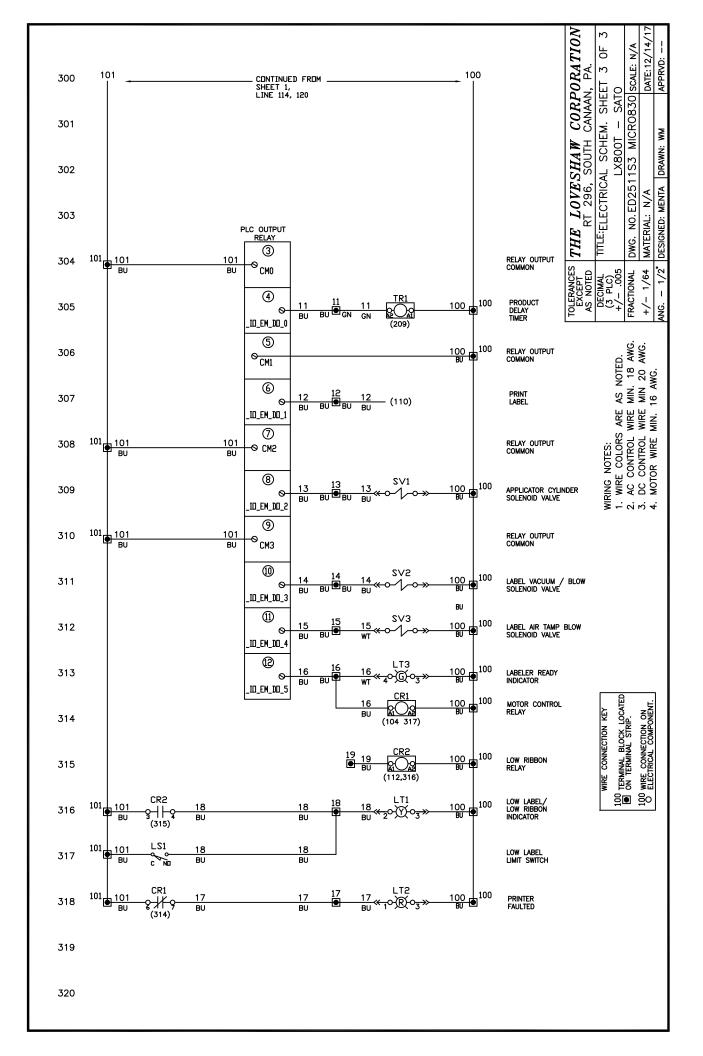
TOLERANCE EXCEPT AS NOTEL DECIMAL (3 PLC) +/- .00 FRACTION/ +/- 1/6 ANG. - 1/

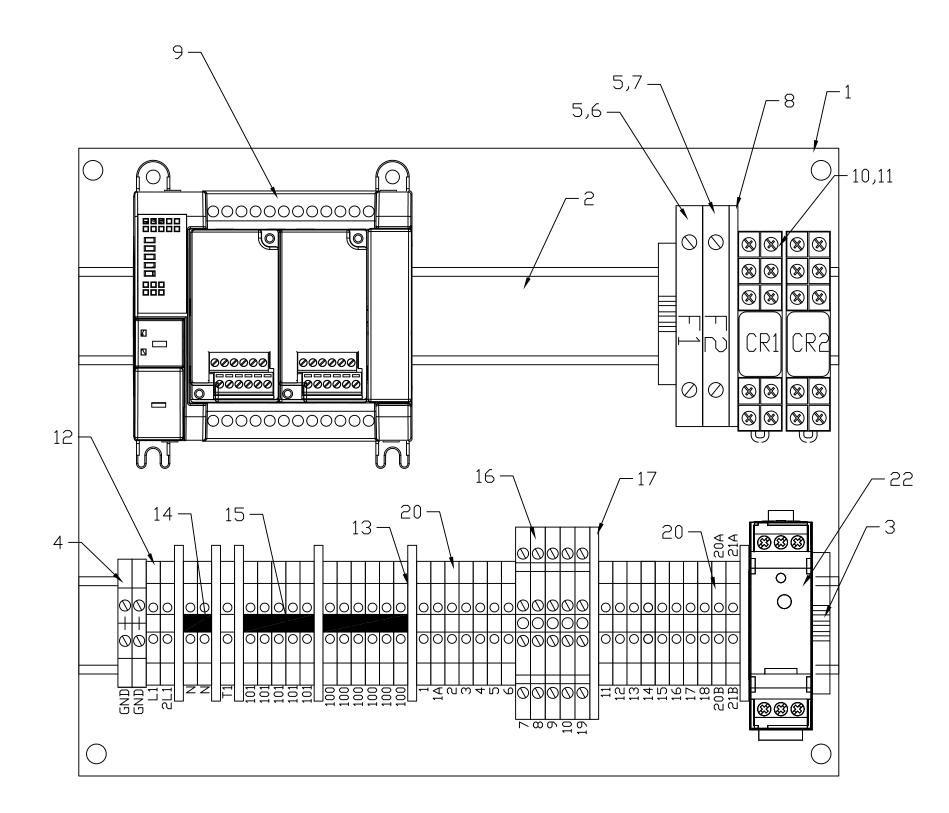
REV DESCRIPTION DATE ATH DR C
PART DESCRIPTION
ELECTRICAL PANEL
DIN RAIL
TERMINAL ANCHOR
GROUND BLOCK
FUSE HOLDER
FUSE, 3/4 AMPS, SLOW BLOW
FUSE, 6/10 AMPS, SLOW BLOW
FUSE BARRIER
PLC
RELAY BASE – DPDT
RELAY, 24VDC SLIMLINE
SINGLE TERMINAL
BARRIER PLATE
2 POLE JUMPER
10 POLE JUMPER
SINGLE TERM. W/1500 OHM RESISITOR
BARRIER PLATE
TERMINAL MARKER CARD
 TERMINAL MARKER CARD
 SINGLE DISCONNECT TERMINAL BLOCK
 SINGLE DISCONNECT TERMINAL PLUG
 24VDC / 15W POWER SUPPLY

CES F ED	THE LOVES	S HAW CORP South Canaan	PORATION
L		ASSEMBLY -	•
) 05	LABELE	R - 120 VAC	- SATO
IAL	DWG. NO.ED314	0	SCALE: 3 : 4
64	MATERIAL: COMME	ERCIAL	DATE: 12/11/17
/2°	DESIGNED: MENTA	DRAWN: WM	APPRVD:







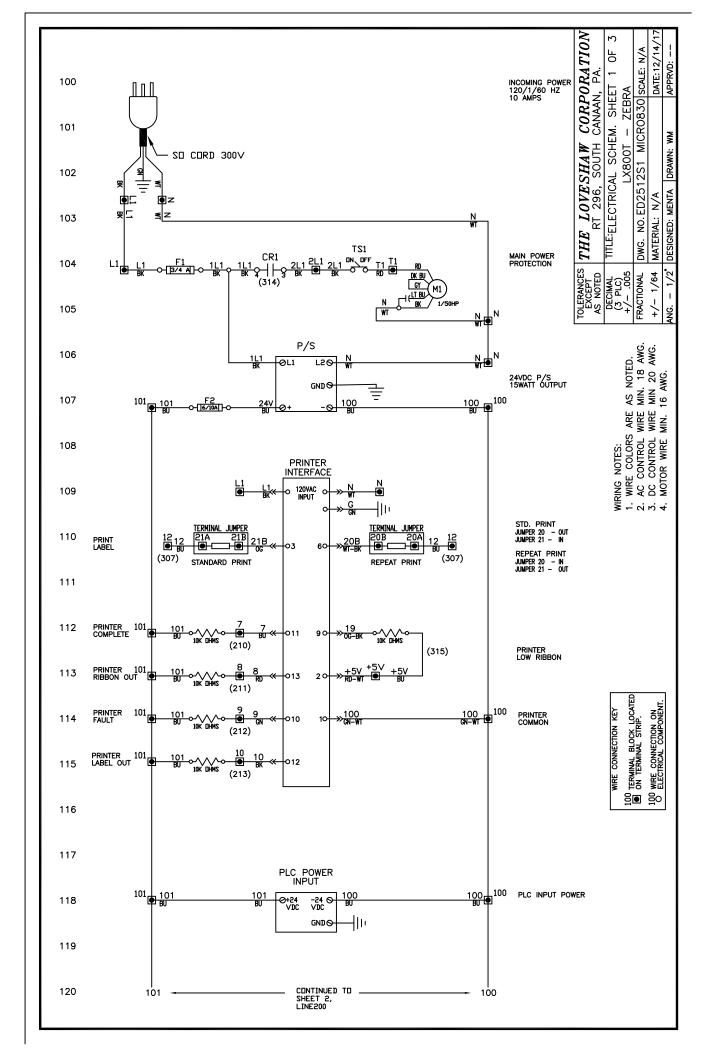


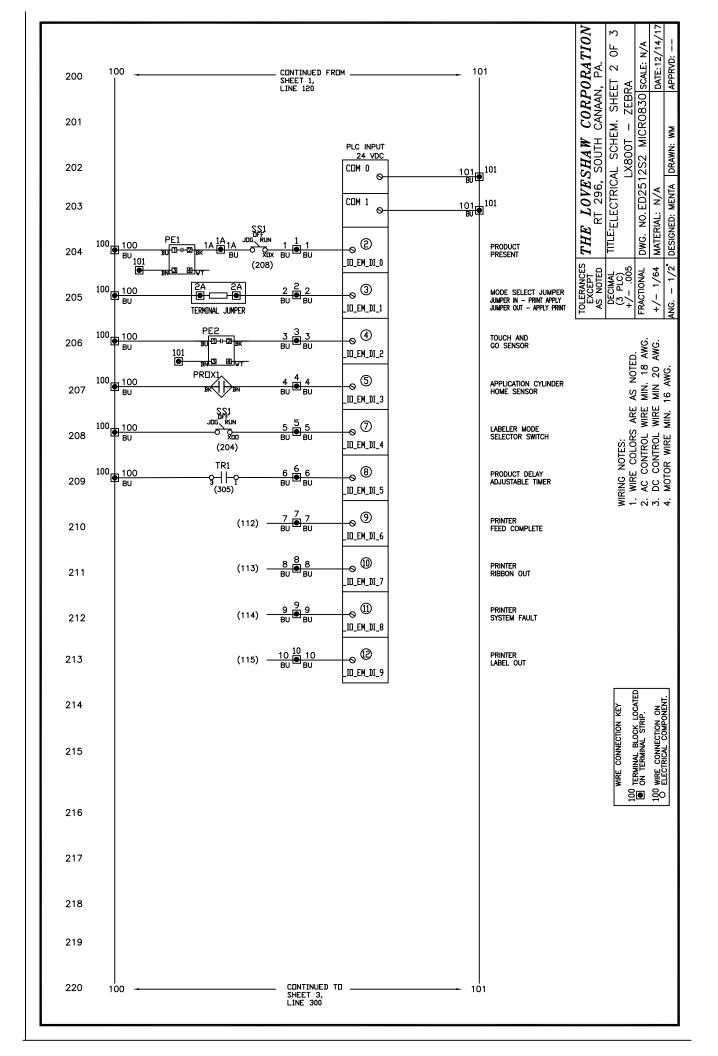
KEY	PART NUMBER
1	A100N-1210P
2	A209-AB-2
3	A128-AB-ERL35
4	A124-AB-JG4
5	A125BH-AB-DIN
6	A125SB-3/4-32
7	A125SB-6/10-3
8	A128B-AB16
9	A241AB-830-1
10	A184-AB-3
11	A183-AB-9
12	A124-AB-J3
13	A128-AB-PPJ3
14	A124-AB-CJS-2
15	A124-AB-CJJ-1
16	A124-AB-J3-RES
17	A128-AB-PPJD3
18	A124-AB-MARK-S
19	A124-AB-MARK-D
20	A124-AB-J3P
21	A124-AB-DPL
22	A268PS-22

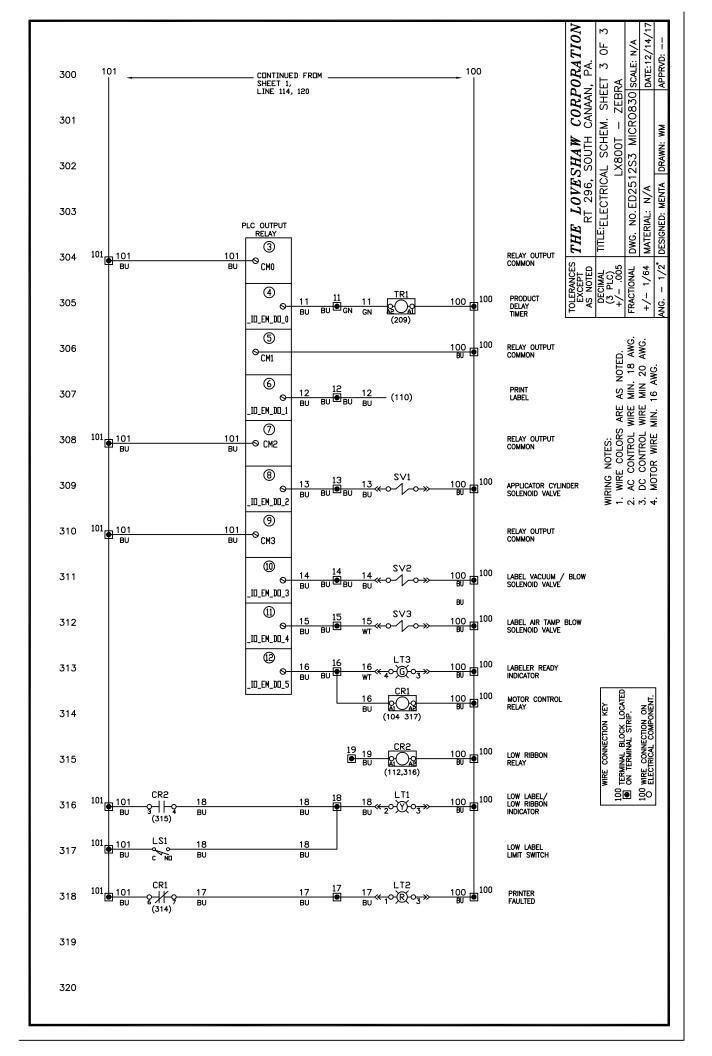
TOLERANCE EXCEPT AS NOTEL DECIMAL (3 PLC) +/- .00 FRACTIONA +/- 1/6 ANG. - 1/

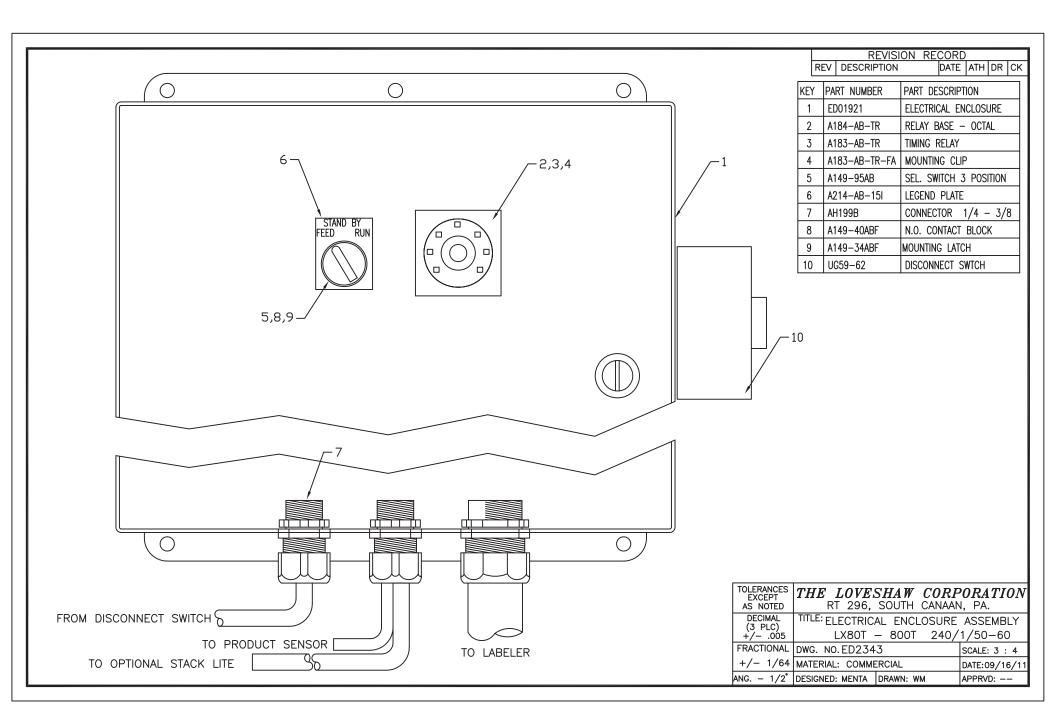
	REVISIONRECORDREVDESCRIPTIONDATEATHDRCK
	PART DESCRIPTION
	ELECTRICAL PANEL
	DIN RAIL
5	TERMINAL ANCHOR
	GROUND BLOCK
	FUSE HOLDER
26	FUSE, 3/4 AMPS, SLOW BLOW
326	FUSE, 6/10 AMPS, SLOW BLOW
	FUSE BARRIER
	PLC
	RELAY BASE – DPDT
	RELAY, 24VDC SLIMLINE
	SINGLE TERMINAL
	BARRIER PLATE
2	2 POLE JUMPER
10	10 POLE JUMPER
S1	SINGLE TERM. W/1500 OHM RESISITOR
3	BARRIER PLATE
ST	TERMINAL MARKER CARD
DT	TERMINAL MARKER CARD
	SINGLE DISCONNECT TERMINAL BLOCK
	SINGLE DISCONNECT TERMINAL PLUG
	24VDC / 15W POWER SUPPLY

ES	THE LOVE	SHAW CORF	PORATION
ED	RT 296,	SOUTH CANAAN	N, PA.
L L	TITLE: PANEL	ASSEMBLY -	LX800T
) 05	LABELE	R – 120 VAC	– ZEBRA
JAL	DWG. NO.ED321	5	SCALE: 3 : 4
64	MATERIAL: COMME	ERCIAL	DATE:03/26/18
/2°	DESIGNED: MENTA	DRAWN: WM	APPRVD:



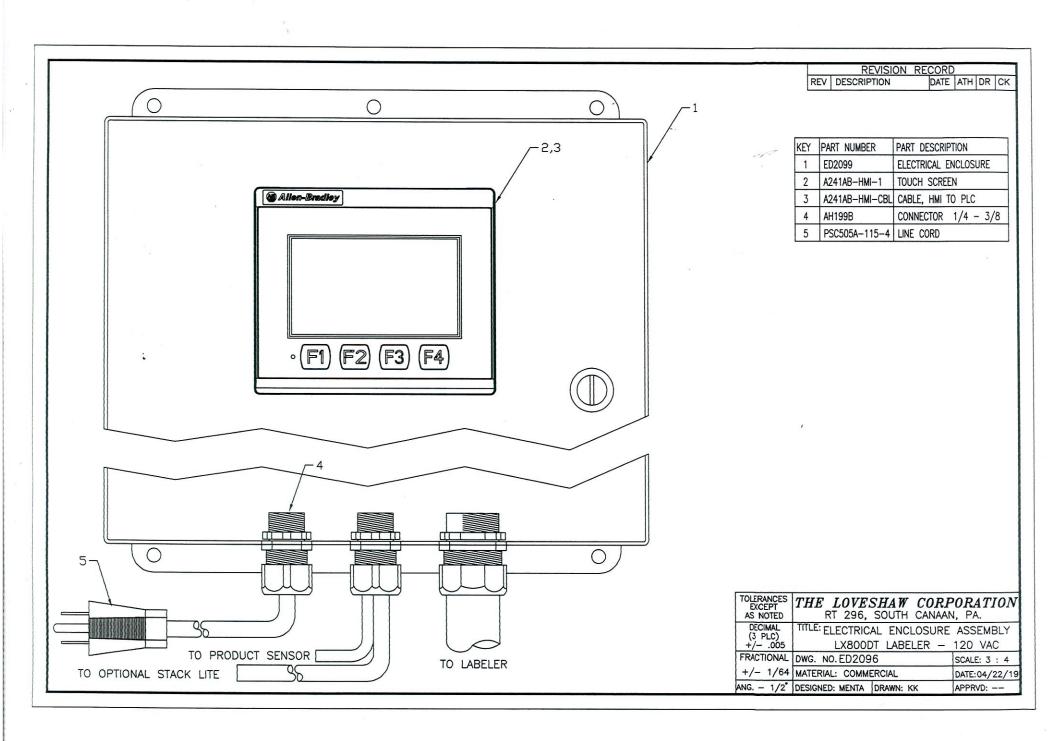


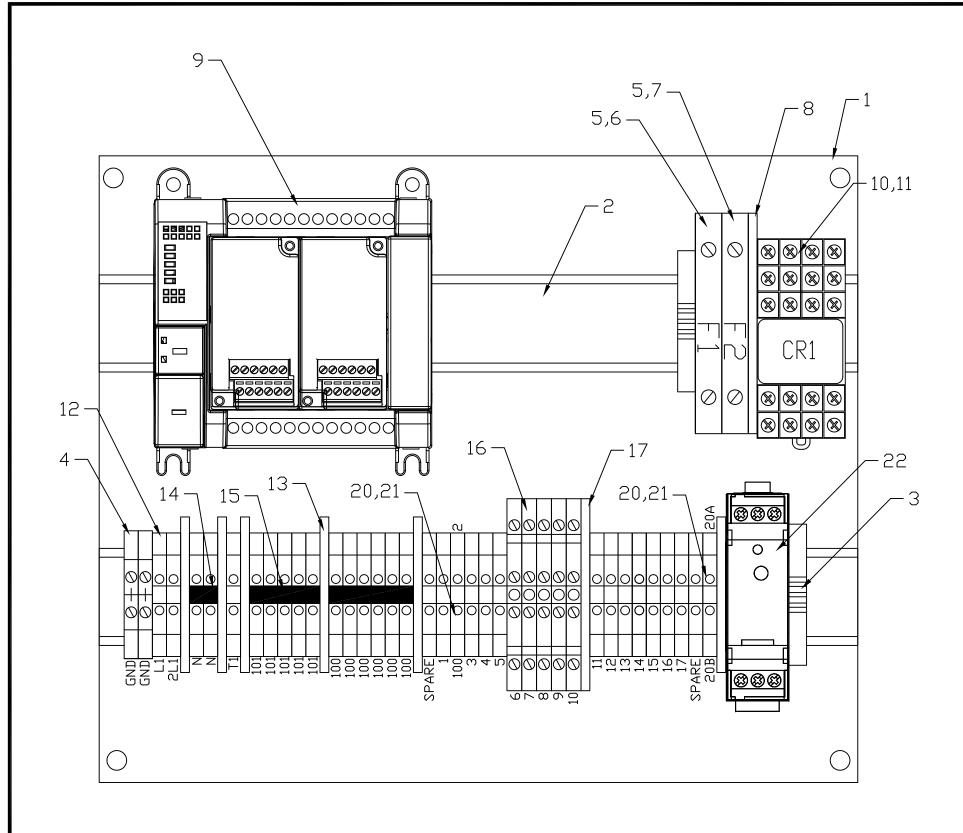




ELECTRICAL ASSEMBLY AND SCHEMATICS FOR SATO AND ZEBRA PRINTERS

(DUAL TAMP – SWING ARM MODELS)

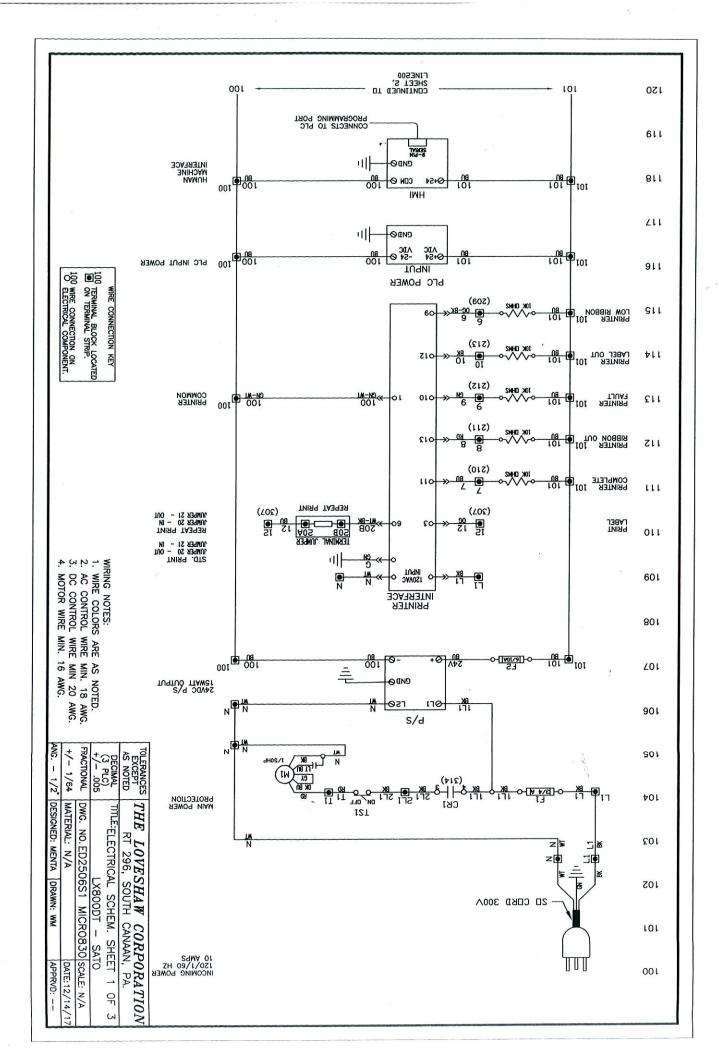


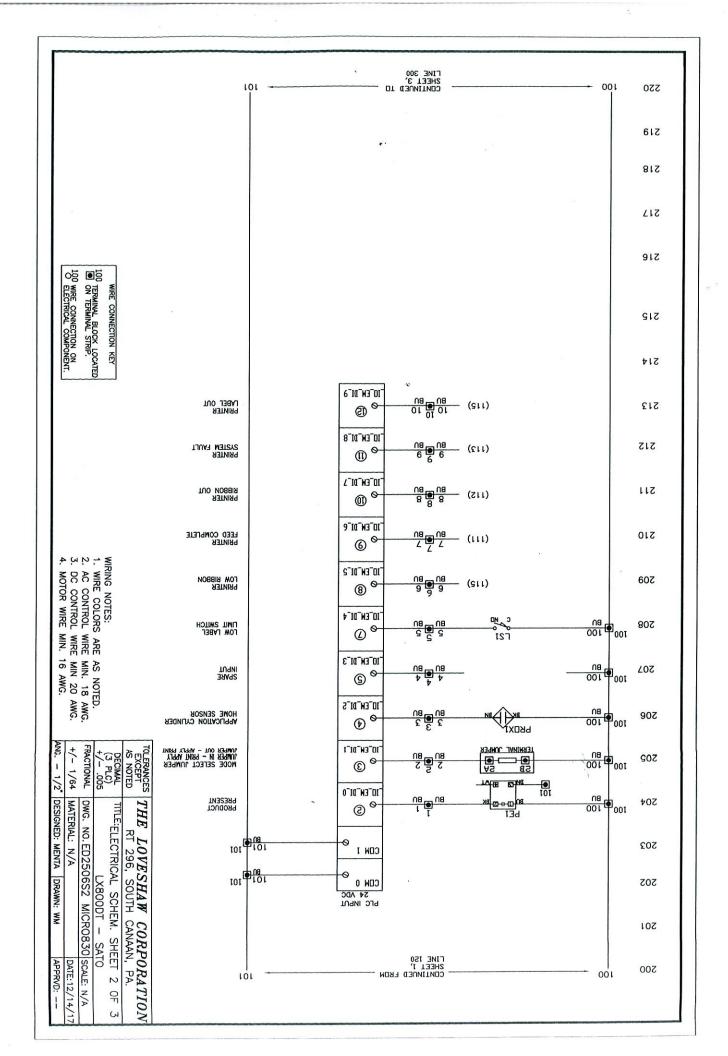


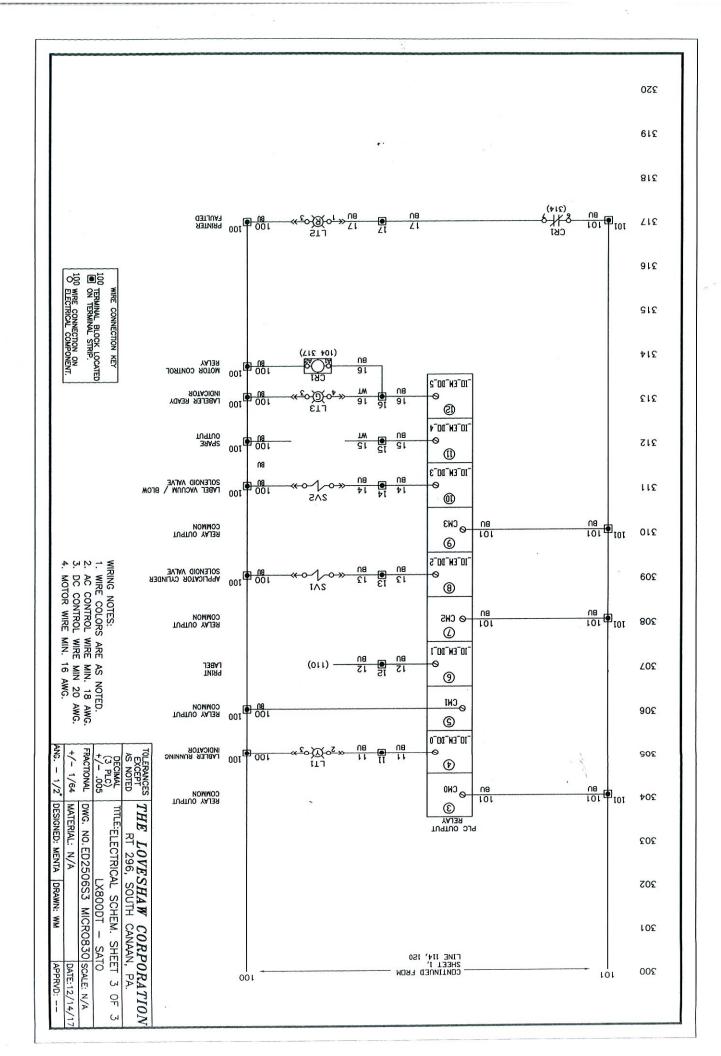
KEY	PART NUMBER	PART DESCRIPTION
1	A100N-1210P	ELECTRICAL PANEL
2	A209-AB-2	DIN RAIL
3	A128-AB-ERL35	TERMINAL ANCHOR
4	A124-AB-JG4	GROUND BLOCK
5	A125BH-AB-DIN	FUSE HOLDER
6	A125SB-3/4-326	FUSE, 3/4 AMPS, SLOW BLOW
7	A125SB-6/10-326	FUSE, 6/10 AMPS, SLOW BLOW
8	A128B-AB16	FUSE BARRIER
9	A241AB-830-1	PLC
10	A184-AB-4PDT-1	RELAY BASE – 4PDT
11	A183-AB-4PDT-1	RELAY, 24VDC – 4PDT
12	A124-AB-J3	SINGLE TERMINAL
13	A128-AB-PPJ3	BARRIER PLATE
14	A124-AB-CJS-2	2 POLE JUMPER
15	A124-AB-CJJ-10	10 POLE JUMPER
16	A124-AB-J3-RES1	SINGLE TERM. W/1500 OHM RESISITOR
17	A128-AB-PPJD3	BARRIER PLATE
18	A124-AB-MARK-ST	TERMINAL MARKER CARD
19	A124-AB-MARK-DT	TERMINAL MARKER CARD
20	A124-AB-J3P	SINGLE DISCONNECT TERMINAL BLOCK
21	A124-AB-DPL	SINGLE DISCONNECT TERMINAL PLUG
22	A268PS-22	24VDC / 15W POWER SUPPLY

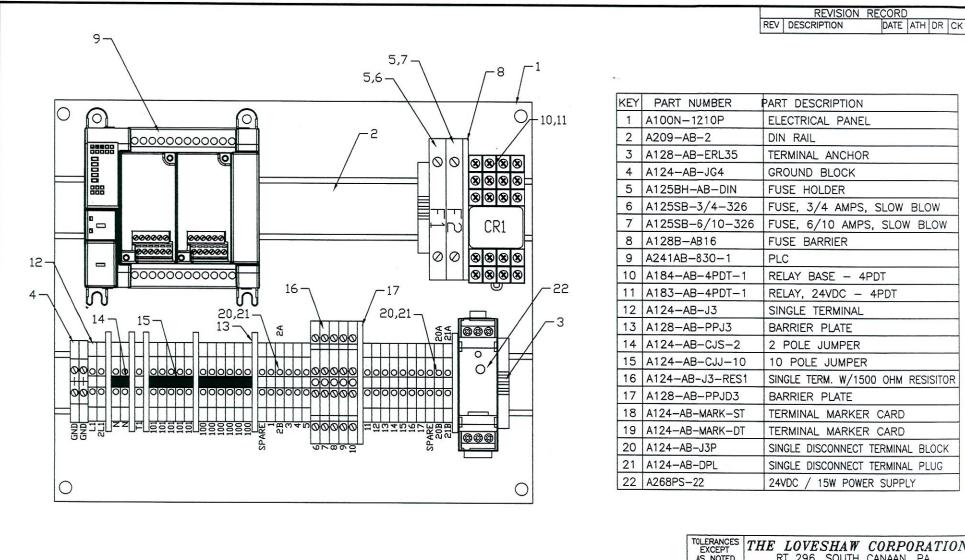
TOLERANCES EXCEPT AS NOTED		SHAW CORF South Canaan	
DECIMAL (3 PLC)		PANEL ASSY,	
+)/00́5	LABELE	IR – SATO –	120 VAC
FRACTIONAL	DWG. NO.ED209	SCALE: 3 : 4	
+/- 1/64	MATERIAL: COMME	DATE:09/10/09	
ANG. – 1/2°	DESIGNED: MENTA	DRAWN: KK	APPRVD:

REVISION RECORD					
REV	DESCRIPTION	DATE	ATH	DR	СК
A	A CHG'D ITEMS 6,7,16			KK	
В	ADD #22; CHG'D #7	11/20/12		KK	

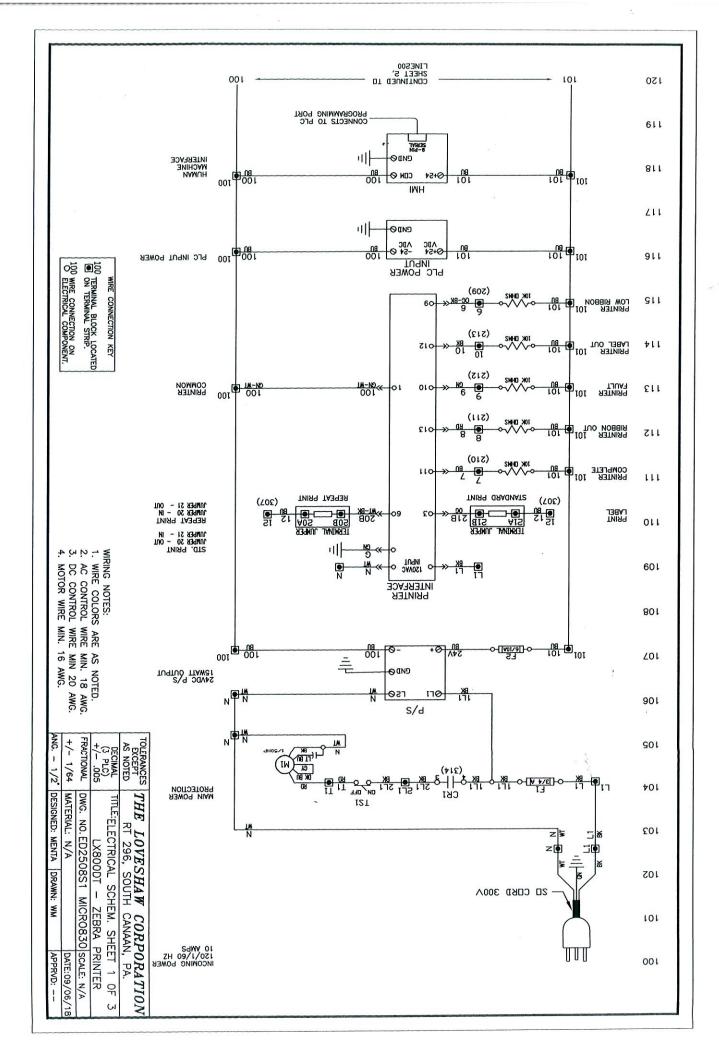


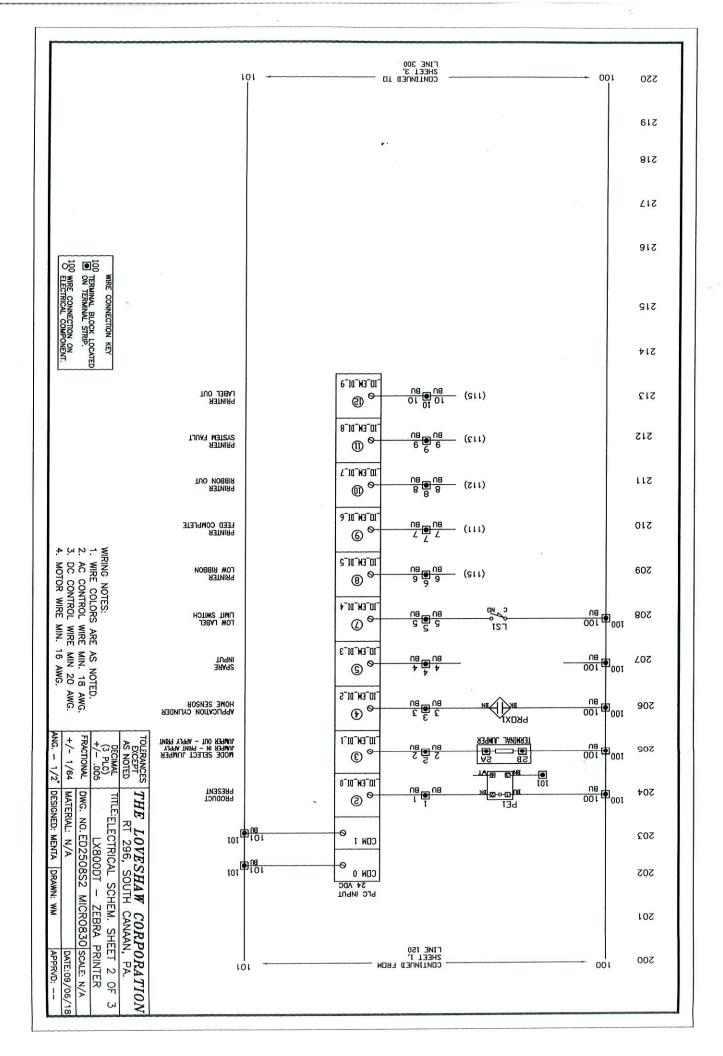


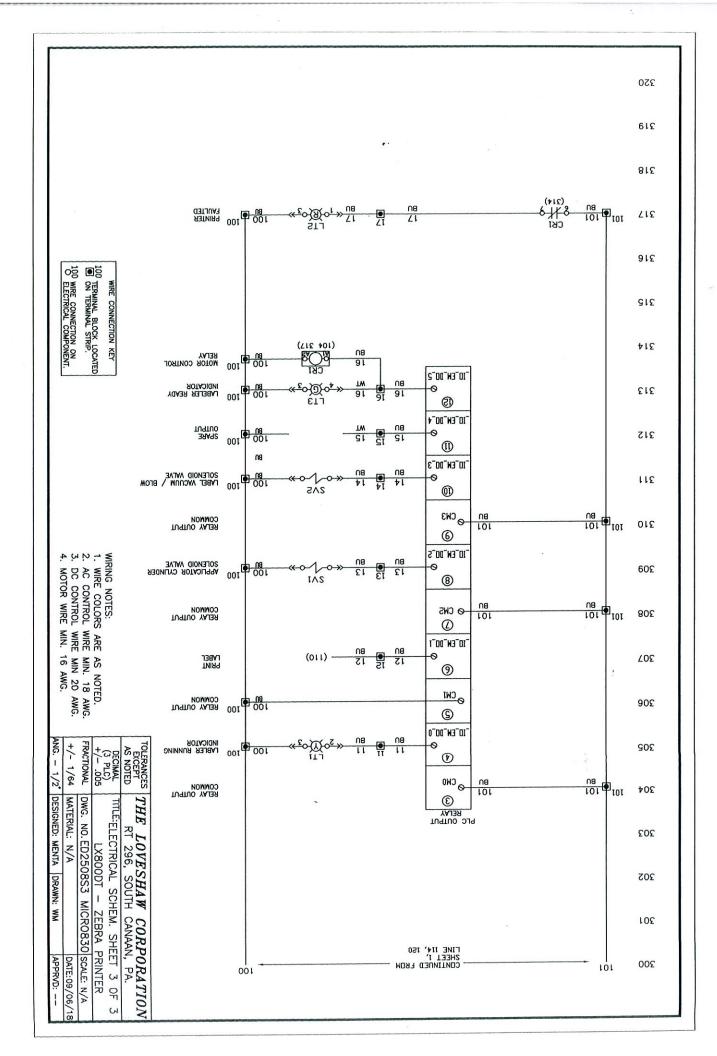


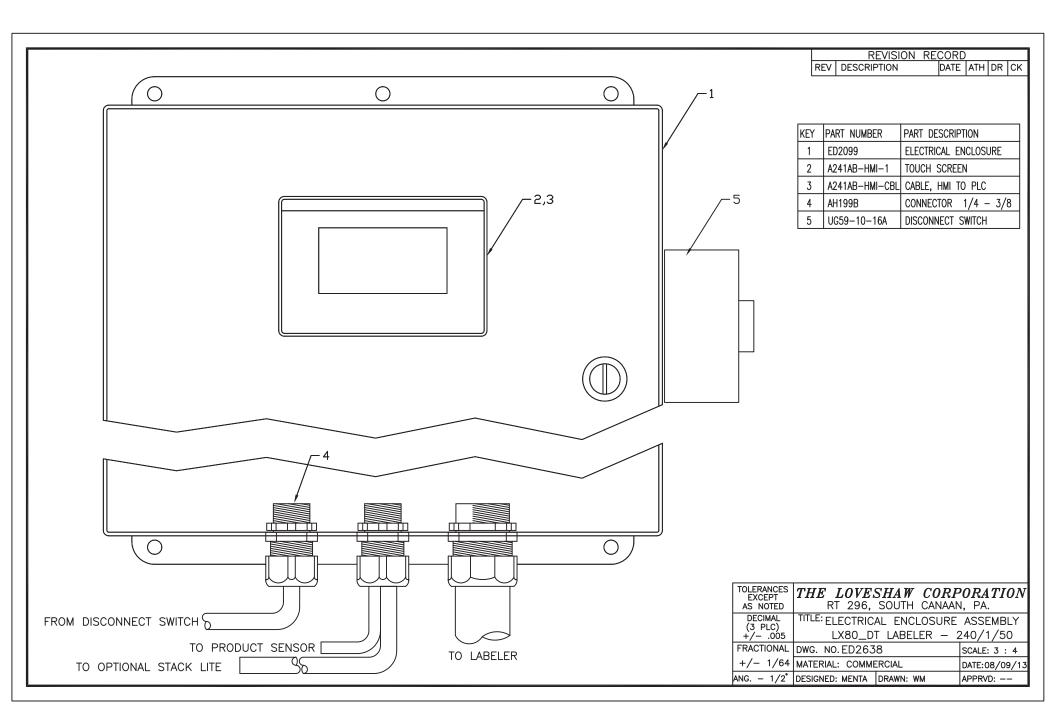


TOLERANCES EXCEPT AS NOTED	THE LOVESHAW CORPORATION RT 296, SOUTH CANAAN, PA.
DECIMAL (3 PLC) +/005	TITLE: ELECT. PANEL ASSY, LX800DT LABELER – ZEBRA – 120 VAC
	DWG. NO. ED2098-MICR0830 SCALE: 3 : 4
+/- 1/64	MATERIAL: COMMERCIAL DATE:04/23/15
ANG. $- 1/2^{*}$	DESIGNED: MENTA DRAWN: KK APPRVD:









PLC PROGRAM

(STRAIGHT TAMP & DUAL TAMP – SWING ARM MODELS)

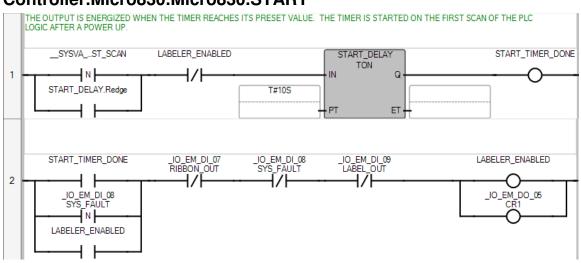
The current PLC Program is available upon request. Consult the factory for a copy.

LADDER LOGIC



LX800

Controller.Micro830.Micro830.START



	THE PRINT AND APPELS	I SOMUEINER UMIRIS SEI TU ZEINUTE TRE FRIMTER IS FAULTEU UN A LINGELFEEU IS REMESTEU. THE LINGELFEEU REMUEST WILL MUT ALLUW A FULL LINGEL UTLE TU START.	
	IO_EM_DI_01 MODE_SELECT	LABELER_ENABLED MOV	
1		JOG_ENARLE 0 ENO ESQUEINCER_DATA	
	THE PRINT AND APPLY	SEQUENCER IS SET TO ONE WHEN THE LABELER IS ETHER EINABLED TO OPERATE OR A LABEL FEED CYCLE HAS COMPLETED.	
2	IO_EM_DI_01 MODE_SELECT		
2		JOG_COMPLETE 1 SEQUENCER_DATA	
	THE FIRST STEP OF THE	Les equeixes prints out the label and initiates the product delay times to start operating.	
3			
-	1/1	SEQUENCER_DATA STEP_1 _JO_EM_DL_05 _MOV	
			SEQUENCER_DATA
	THE SECOND STEP OF T	THE SEQUENCER MONTORS THE LABEL FEED COMPLETE SIGNAL	01
4	MODE SELECT	LABELER_EINABLED STEP_2	
-		SEQUENCER_DATA	
			10
		FEED_SIMULATED T#300MS 3	SEQUENCER_DATA
			o1 +
	THE THIRD STEP OF TH	HE SEDUENCER CONTROLS THE LABEL APPLICATOR TRAVELLING OUTWARDS,	
5	MODE SELECT	LABELER_EINABLED STEP.3	
5		SEQUENCER_DATA	TAMP_SIMULATED
			-0
			10
		TAMP_SIMULATED 4	SEQUENCER_DATA
	THE FOURTH STEP OF T	THE SEQUENCER CONTROLS THE LABEL APPLICATOR TRAVELLING TO ITS HOME POSITION.	01
	IO EM DL 01	LABELER_ENABLED STEP_4	
6	MODE SELECT		
			SEQUENCER_DATA
	THE FIFTH STEP OF THE	HE SEQUENCER RESETS THE LABELER FOR THE NEXT BOX CYCLE	01
7	IO_EM_DI_01 MODE_SELECT	LABELER_ENVALED STEP_5	
		SEQUENCET MER MOV	
			SEQUENCER_DATA
	THE OUTPUT IN PRINT 4	TAND APPLY MODE ENERGIZES THE PRODUCT DELAY TIMER.	01
8	MODE SELECT		
0	THE OUTPUT IN PRINT A	T AND APPLY MODE EMABLES THE PRINTER TO START FEEDING OUT THE LABEL	
	_IO_EM_DI_01	LABELER_ENABLED STEP_2 COMPLET_PA.Redge	PA_START_PRINT
9	MODE SELECT		O
	THE OUTPUT IN PRINT A	T AND APPLY MODE ENABLES THE LABEL APPLICATOR TO EXTEND OUT WHEN IT IS ENABLED AND BACK HOME WHEN IT IS DEENRGIZED.	
		LABELER_DHARLED STEP_3	PA_APPLY_LABEL
10			

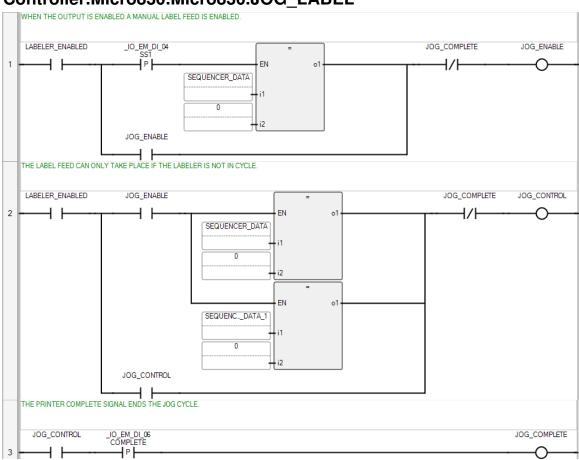
Controller.Micro830.Micro830.PRINT_APPLY_SEQUENCE

THE APPLY PRINT SEQUENCER DATA IS SET TO ZERO IF THE PRINTER IS FAULTED OR A LAB	EL FEED IS REQUESTED. THE LABEL FEED REQUEST WILL NOT ALLOW A FULL LABEL CYCLE TO START.
JO EM DI 01 LABELER_ENABLED MOV MODE_SELECT	510
1 JOG_ENABLE 0	SEQUENCDATA_1
THE APPLY PRINT SEQUENCER IS SET TO ONE WHEN THE LABELER IS EITHER ENABLED TO	a) H DPERATE OR A LABEL FEED CYCLE HAS COMPLETED.
LO_EM_DI_01 START_TIMER_DONE MOV	
2 JOG_COMPLETE 1	ENO SEQUENC_DATA_1
THE FIRST STEP OF THE SEQUENCER INITIATES THE PRODUCT DELAY TIMER TO START OPE	0 THE FIRST LABEL MUST BE MANUALLY FED OUT BEFORE STARTING THE LABEL CYCLE.
_IO_EM_DI_01 LABELER_ENABLED =	JO_EM_DI_00 JOG_CONTROL STEP1
3 MOUE_SELECI	
THE SECOND STEP OF THE SEQUENCER CONTROLS THE LABEL APPLICATOR TRAVELLING OI	
	STEP2
4 JO EM DI 01 LABELER_ENABLED MODE_SELECT EN 01	
	PT ET -
	TAMP_SMULATED 3 iii SEQUENC_DATA_1
THE THIRD STEP OF THE SEQUENCER CONTROLS THE LABEL APPLICATOR TRAVELLING TO I	
JO EM DI 01 LABELER_ENABLED =	STEP3
SEQUENC_DATA_1	
3	4
THE FOURTH STEP OF THE SEQUENCER ENABLES THE PRINTER TO PRINT AND MONITORS T	HE LABEL FEED COMPLETE SIGNAL
IO EM_DI_O MODE_SELECT 6	
SEQUENC_DATA_1	
4	T#2500MS
	COMPLET.AP.Rodge T=300MS 5 S SEQUENC_DATA_T
THE FIFTH STEP OF THE SEQUENCER RESETS THE LABELER FOR THE NEXT BOX CYCLE.	
IO_EM_DI_01 LABELER_ENABLED -	STEP5
7 SEQUENC_DATA_T	
5 i1	
THE OUTPUT IN APPLY PRINT MODE ENERGIZES THE PRODUCT DELAY TIMER.	
LO_EM_DI_01 LABELER_ENABLED STEP1 MODE_SELECT	AP_TR1_COL
THE OUTPUT IN APPLY PRINT MODE ENABLES THE PRINTER TO START FEEDING OUT THE LI	
<u>JO_EM_DI_01</u> LABELER_ENABLED STEP4	AP_START_PRINT
9 JO EM DL 01 LABELER_ENABLED STEP4 MODE SELECT 1	O
IO EM DI 01 LABELER_ENABLED STEP2 MODE_SELECT	AP_APPLY_LABEL
	0
11	

Controller.Micro830.Micro830.APPLY_PRINT_SEQUENCE

Controller.Micro830.Micro830.OUTPUTS

	WHEN THE OUTPUT IS ENERGIZED THE PROD THE POSITION OF THE LABEL ON THE BOX.	ICT DELAY TIMER ON THE MAIN ENCLOSURE	IS ENABLED. THIS TIMER IN CONJUNCTION	WITH "PE1" CONTROLS
	LABELER_ENABLED PA_TR1_COIL			
1				O
	WHEN THE OUTPUT IS ENERGIZED THE APPLY TOUCH AND GO SENSOR IS TRIGGERED BY TH	TAMP CYLINDER WILL EXTEND TO AFFIX TH PROXIMITY OF THE BOX BEING LABELED.	E LABEL TO THE BOX. THE CYLINDER WILL F	RETRACT WHEN THE
	LABELER_ENABLED PA_APPLY_LABE	L		_I0_EM_D0_02 SV1
2		L		O
	THE TIMER CONTROLS THE TAMP BLOW ON D	RATION, THE TAMP BLOW IS UTILIZED TO I	NSURE THAT THE LABEL TRANSFER FROM T	HE PAD TO THE BOX.
	LABELER_ENABLED STEP_3	TAMP_BL_ER_DONE	TAMP_BLOW_ON TON	TAMP_BL_ER_DONE
3			IN Q	O
	TAMP_BL_ER.Red		<u>ң рт ет</u>	
		CT THROUGH THE APPLICATOR PAD TO INSI	JRE THAT THE LABEL TRANSFER FROM THE	PAD TO THE BOX.
	LABELER_ENABLED TAMP_BL_ER.Redge			_IO_EM_DO_04
4	THE OUTPUT IS ENERGIZED TO START THE PF	NTER FEEDING OUT A LABEL ONTO THE API	PLICATOR PAD.	Sv3
	LABELER ENABLED PA START PRIM	T PRINTER _ER D	ONE _IO_EM_DO_01	
5		//		
		т		
	JOG_CONTROL	T#50MS		
	WHEN THE OUTPUT IS OFF VACUUM IS PRESE TURNING OFF THE VACUUM AND SUPPLYING A THE VACUUM TURNS BACK ON THE MOMENT T	R TO THE BLOW TUBE. THE BLOW TUBE DI	H PT ET H BEL IS BEING OUT OF THE PRINTER THE OUT RECTS AIR TO SUPPORT THE LABEL AS IT IS	FED OUT OF THE PRINTER,
	AP_START_PRINT	TE FRINTER FINISHES FEEDING & LABEL.		_IO_EM_DO_03 S <u>V</u> 2
6	PA_START_PRINT			O
	JOG_CONTROL			



Controller.Micro830.Micro830.JOG_LABEL