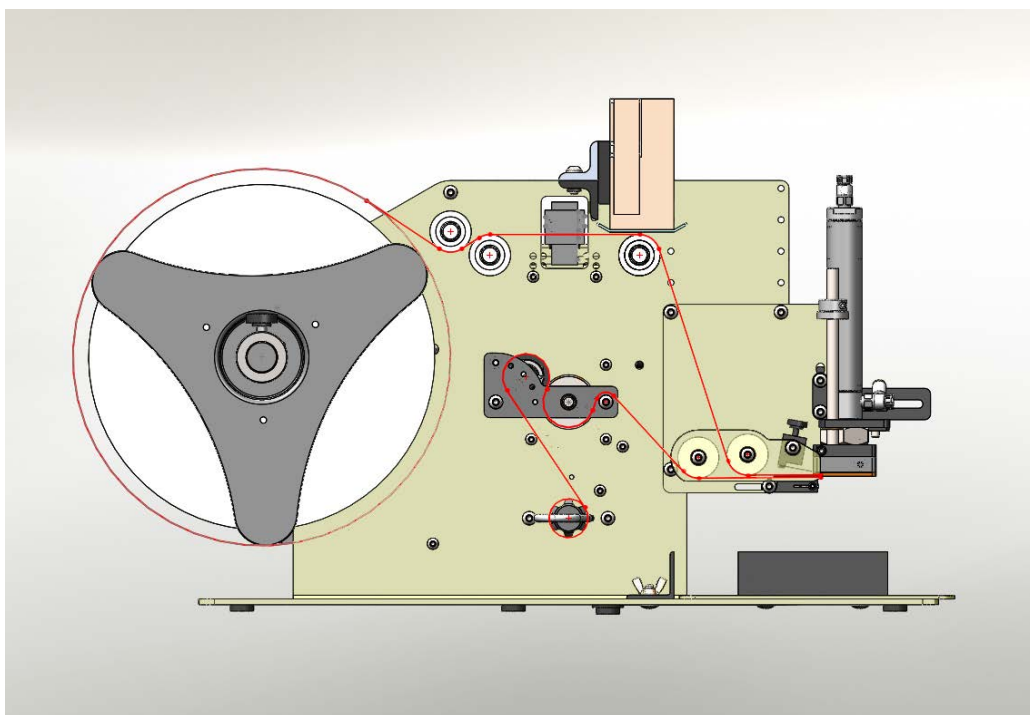




# ***OPERATIONS MANUAL***

## ***MODEL TAL-3100T***

### ***TAMP APPLICATOR***



TAKE-A-LABEL®  
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Nunica, MI 49448  
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## ***TAL-3100T Tamp Applicator***

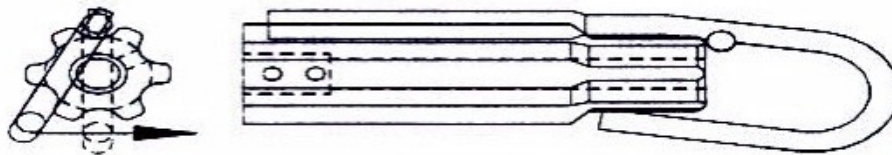
### **Machine Startup:**

1. Unpack TAL-3100T Tamp Label applicator from shipping container.
2. Place the TAL-3100T on a firm level surface.
3. Plug the TAL-3100T into an 110VAC 15 AMP Grounded outlet.
4. Connect the labeler to a sufficient air supply. Minimum 80 PSI clean dry air.

Note: The TAL-3100T typically operates between 30-50 PSI depending on the label.

### **Label Threading:**

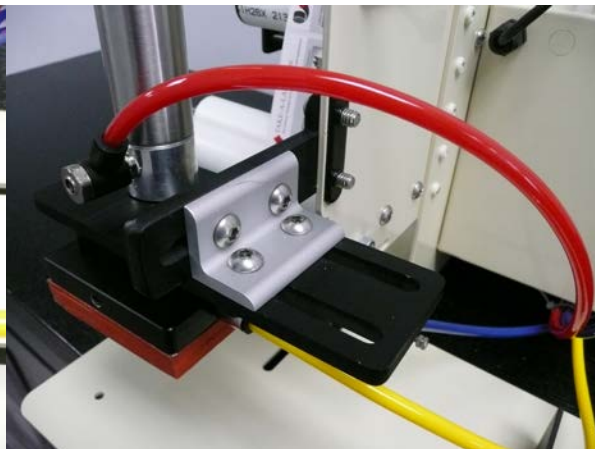
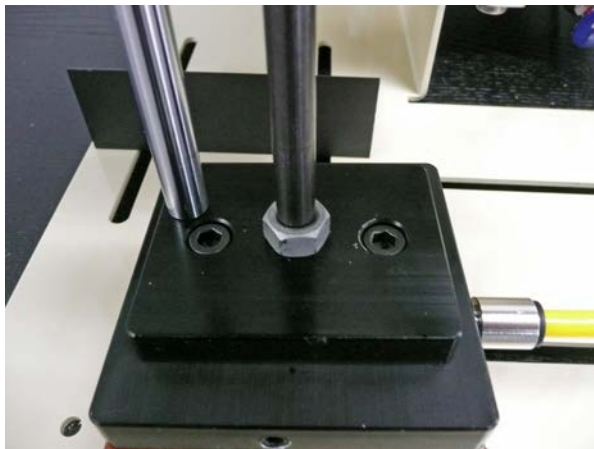
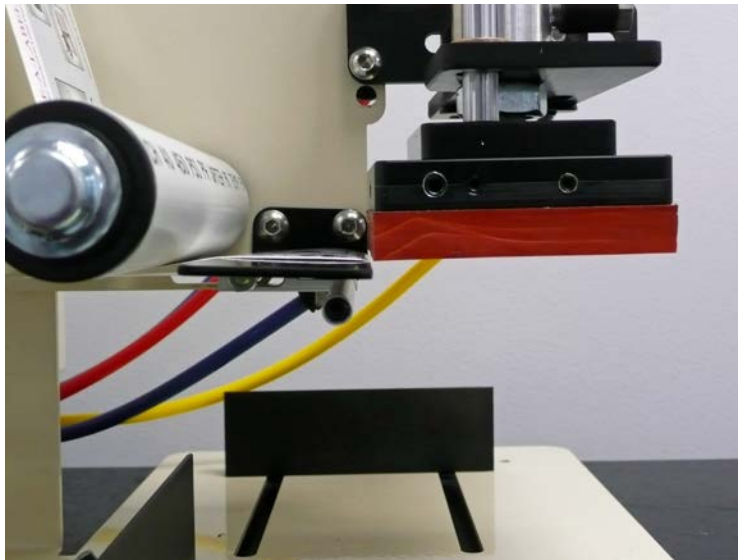
1. Remove outer unwind disc (49) install new roll of labels and replace disc.
2. Pull label web under the first roller, throw the photo eye (21). Continue pulling the label web over the top of the next roller. As the webbing is wrapped around the peel edge, take care to go between the bottom of the peel edge and the top of the air assist tube. (Do Not Cover the Air Assist Tube with the Webbing).
3. Pull web back and wrap under the drive roller (35), and up between the drive roller (35) and pinch roller (24), then back down to the waist wind shaft (47). Note: The pinch roller (26) is spring loaded. Slight pressure will be needed to separate the pinch roller from the drive roller for threading.
4. Install waist wind clip (48) on waist wind shaft (47) placing the webbing between the shaft and the clip.





### **Tamp Head Placement:**

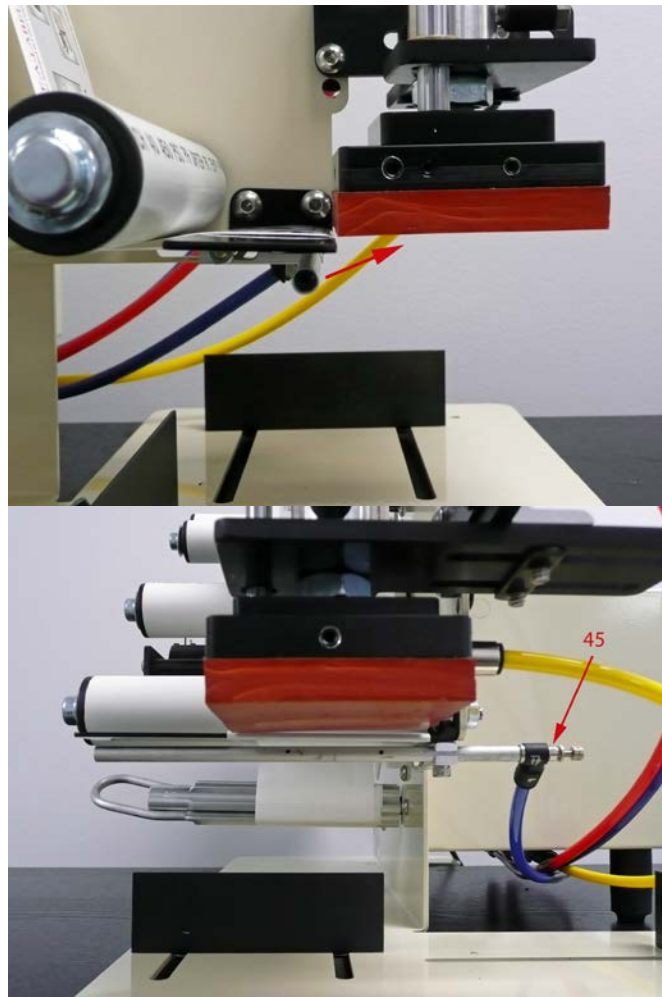
1. The tamp head placement is crucial for consistent label application.
2. The vertical gap between the peel plate and tamp pad should range from 0"-1/32". If not loosen the nut at the base of the tamp cylinder rod, and unthread to lower the tamp pad or screw in the rod to raise the tamp pad height.
3. The horizontal gap between the peel plate and the tamp pad should range from 0"-1/32". If not loosen the horizontal mounting bolts and align to the acceptable range.





### **Air Assist Tube Placement:**

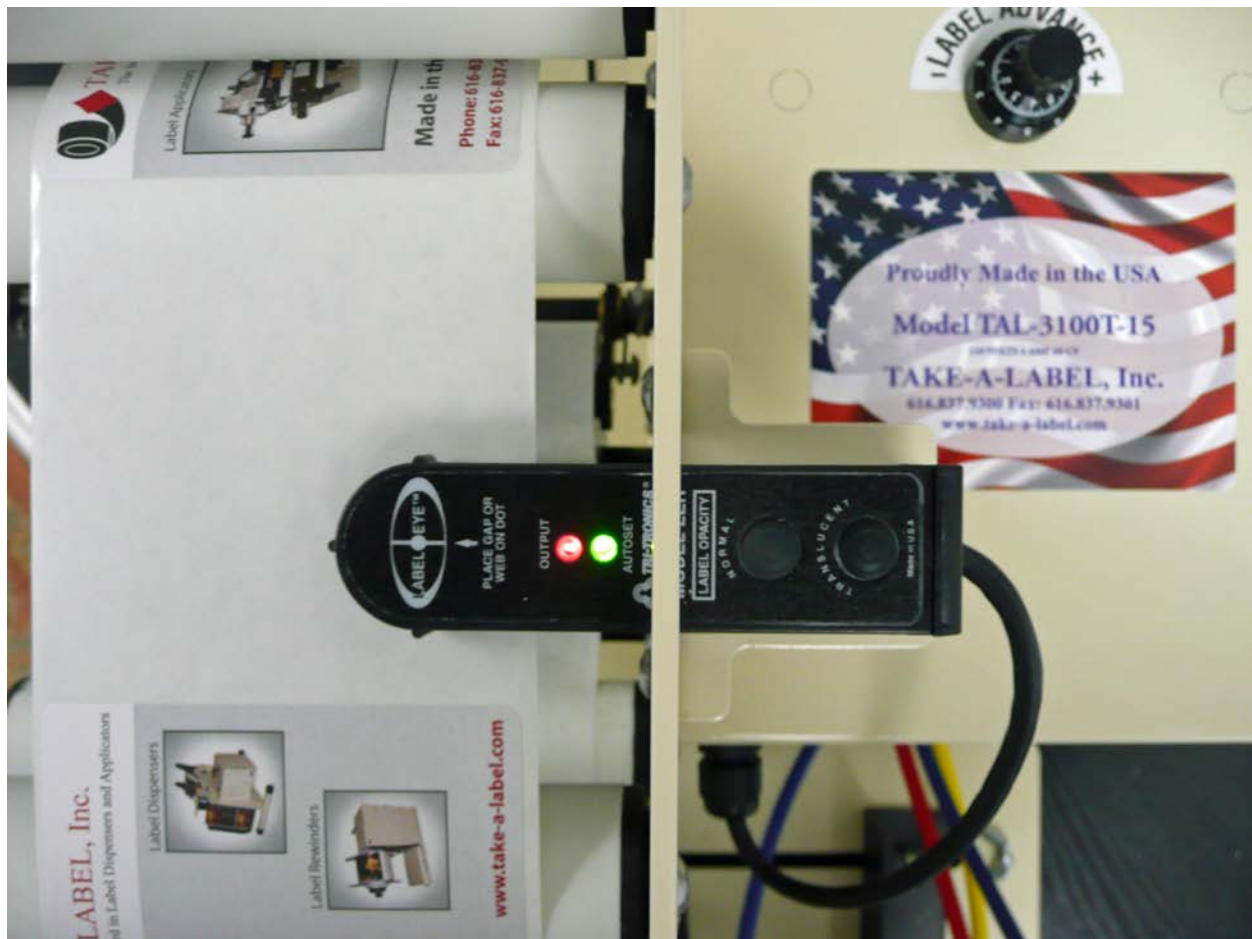
1. The air assist tube is used to assist the label out onto the vacuum pad. As a rule of thumb the blast pattern from this tube should be directed at a 30° angle onto the vacuum pad. This angle may vary due to several factors, as a result different blast angles may have to be experimented with.
2. Depending on the style of your labels there will be one or multiple holes in the air assist tube. These blast holes should be centered on the tamp pad.
3. The miniature flow control (45) will control the volume of air blowing on the label. If the label is falling off of the tamp pad there may not be enough air. Adjust the flow control as needed.





### **Teaching the photo eye:**

1. It is recommended that you teach the photo eye (21) with every new roll of labels used.
2. Remove one label from the webbing and place the webbing only in the photo eye.
3. Press and hold the “Normal” button on photo eye for 3 seconds. When the lights finish flashing the photo eye is taught.



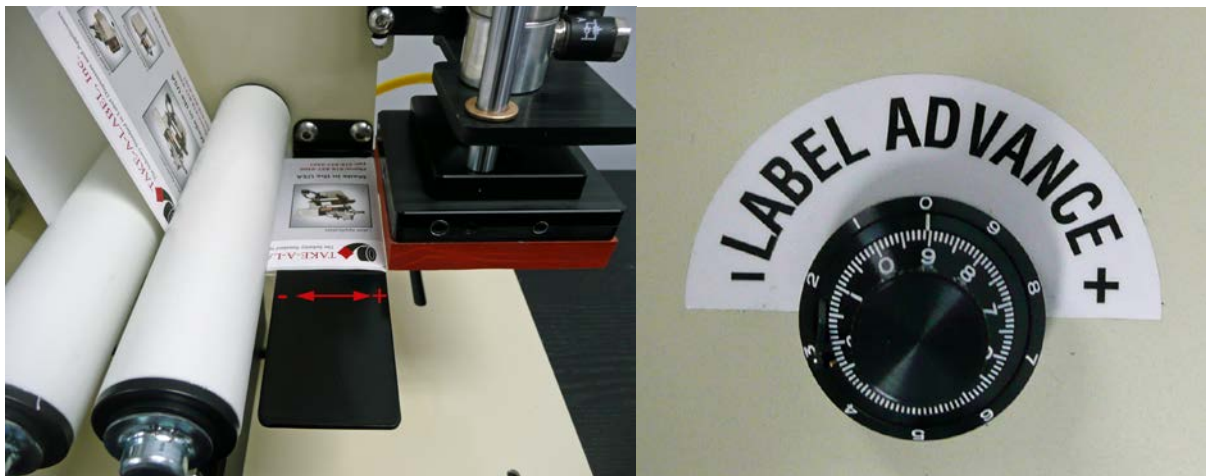




### **Label Setup:**

The label advance potentiometer resides on top of the TAL-3100T electrical housing. The purpose is to adjust the stopping position of the label with respect to the peel plate. With the label advance pot turned all the way counterclockwise the photo eye will stop the applicator instantly when it senses a gap. By rotating the potentiometer toward the + the applicator will dispense more of the label, and by rotating the potentiometer toward the – the applicator will dispense less of the label.

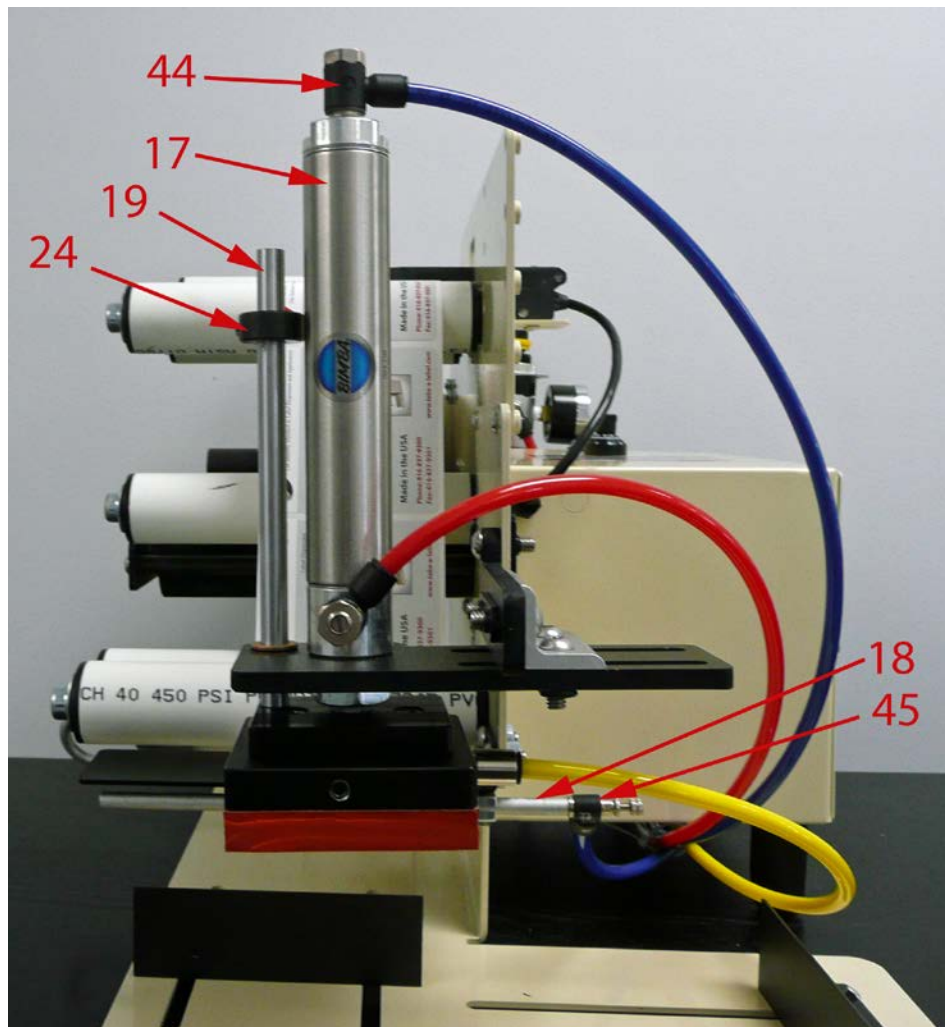
1. To setup the label position, rotate the label advance pot to the – as far as it will rotate.
2. The goal is to have the applicator stop with a label gap right at the peel edge.
3. Activate the applicator and watch the dispensing label. If the label does not advance far enough turn the label advance pot to the +, and repeat until one label is completely dispensed and the next label is stopped at the peel edge.





### **Tamp Head Speed:**

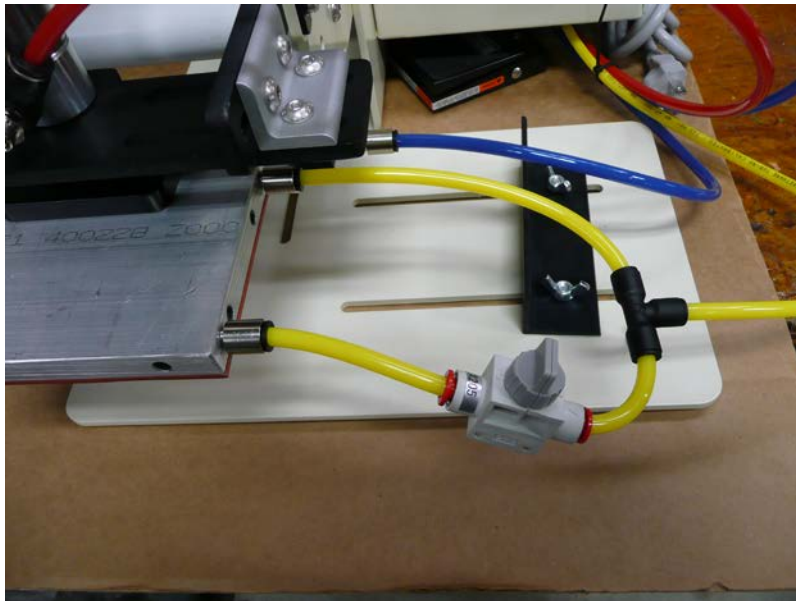
1. To adjust the speed of the tamp head, use a screwdriver to turn the flow control (44) screw clockwise to slow it down and turn the flow control (44) screw counterclockwise to make the tamp head travel faster.



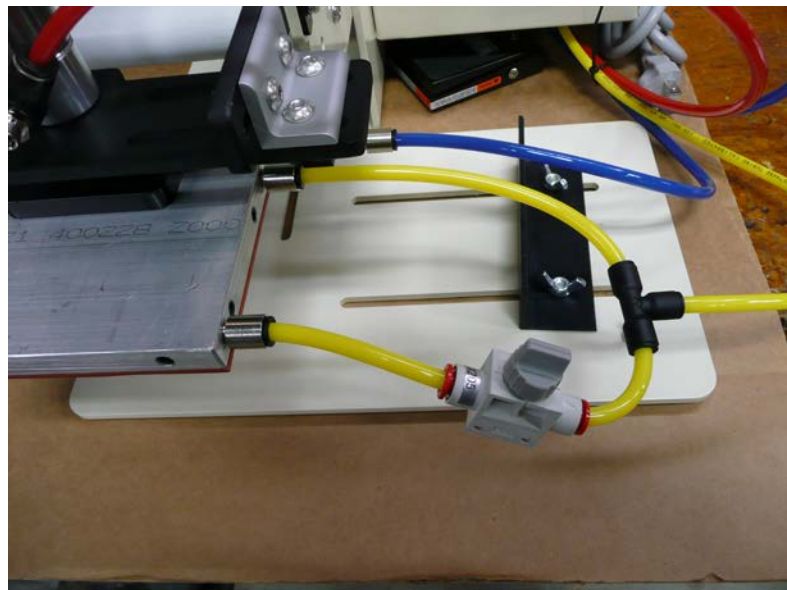


**Tamp Heads Designed for Multiple Labels:**

2. If your applicator has a tamp pad designed for multiple label sizes, you will need to open/close the valve on the vacuum line depending on which label you are running. When running the smallest label size the valve should be closed.



3. When running the largest label the valve should be open.







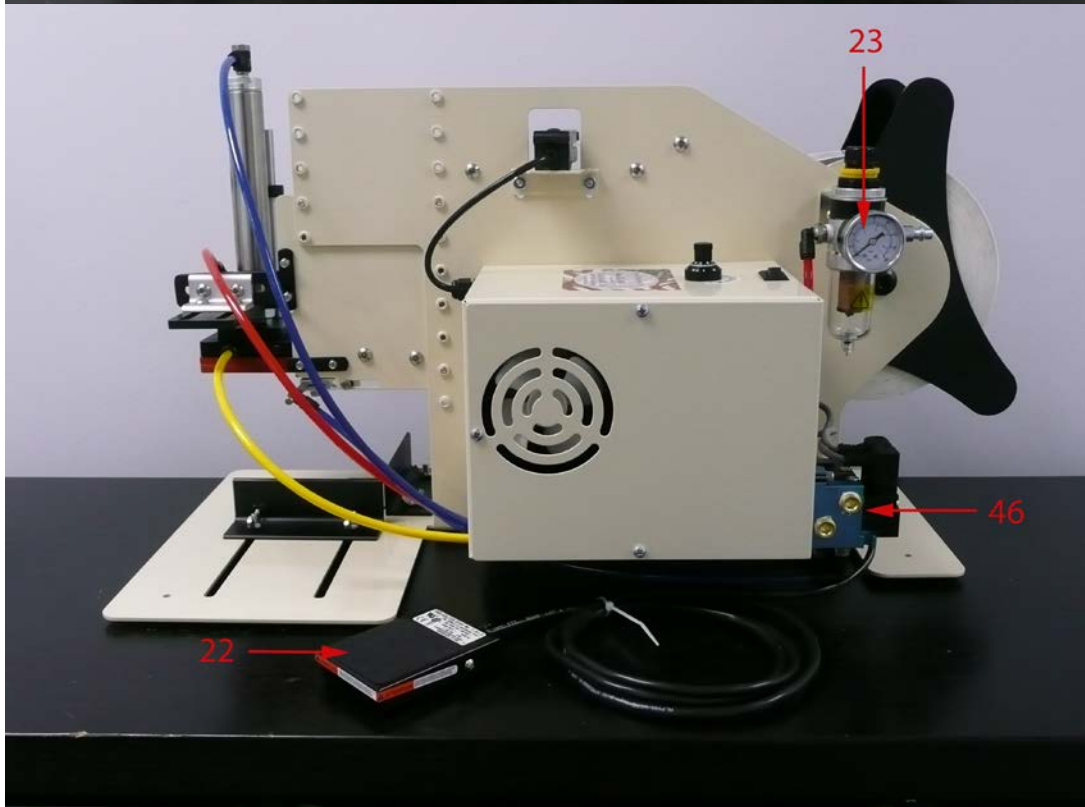
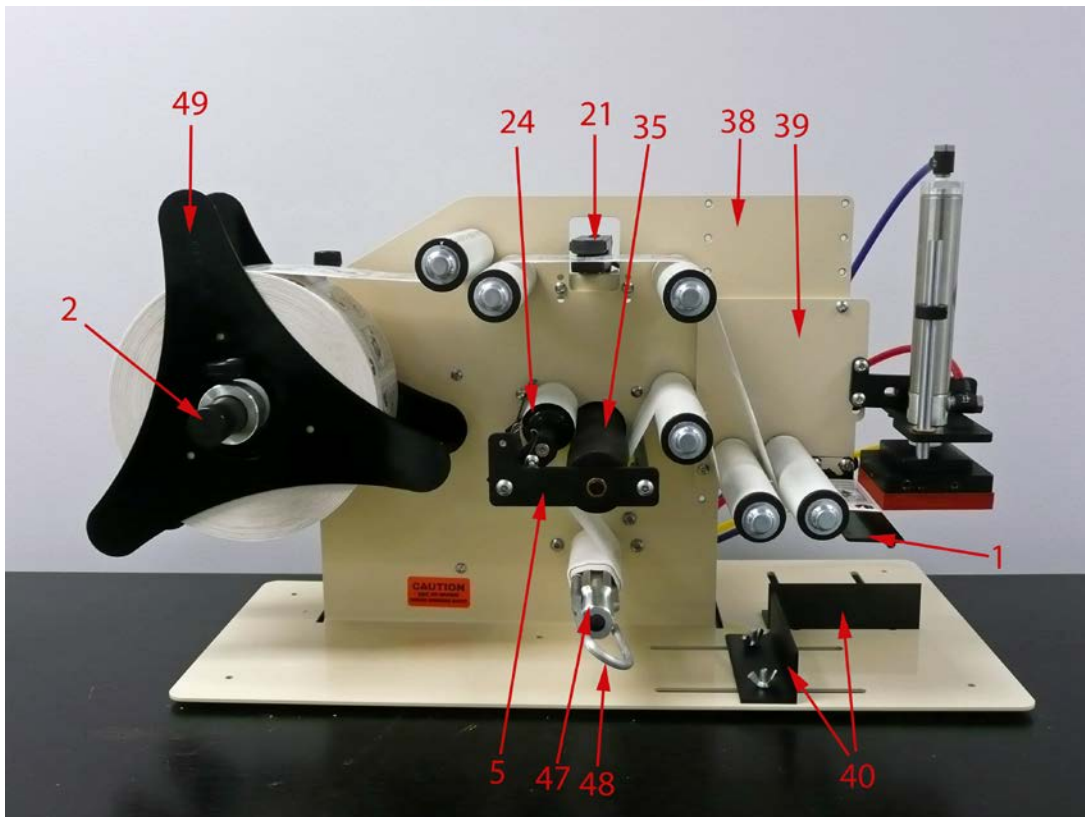
## **Recommended Spare Parts List TAL-3100T:**

Qty.	Description	Part #
1	Pinch Roller	31002
1	Waist wind Clip	45131
1	Drive belt	21031
2	Unwind Disc	45136
1	Motor	76800
1	Vacuum Generator	31725
1	Foot Switch	30110
1	Air Cylinder	30005
1	Circuit Board	31057
3	Unwind Felt Pad	72618
1	Main Fuse	45157
1	Peel Edge Cover	31375
1	Valve Assembly	31722
1	Photo Eye	30106
2	Left Torsion Spring	21027
2	Right Torsion Spring	21028

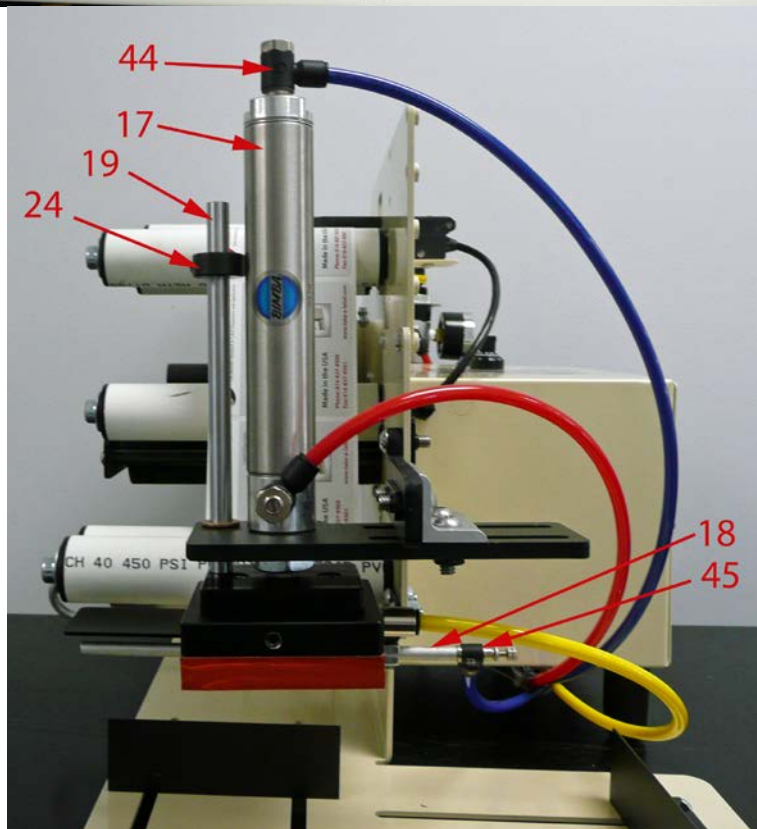
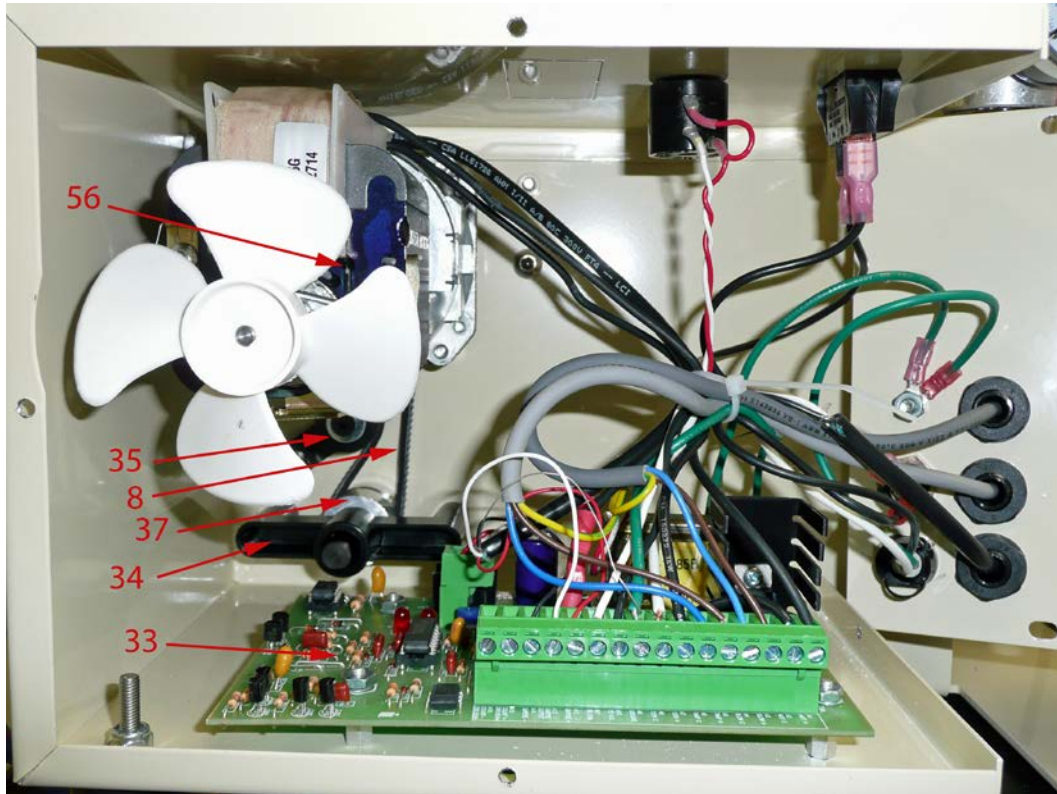
Depending on frequency of use and importance of the machine function, this list may need to be modified to include more of each part to prevent any down time.



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## TAL-3100T Parts List

Item #	Description	#
11002	Peel Plate	1
11008	Unwind Shaft	2
21002	Housing	3
21003	Housing Cover	4
21004	Outboard Support Plate	5
21010	Pinch Roller Shaft	6
21011	Idler Roller Rod	7
21031	Drive V Belt	8
21026	Motor Spacers	9
21027	Left Torsion Spring	10
21028	Right Torsion Spring	11
25112	Unwind Washer	12
25113	Unwind Spring	13
25124	#8 Self Taping Screw	14
26001	Unwind Collar	15
26002	Unwind Hub Screw	16
30005	Pneumatic Cylinder	17
30007	Blow Off/ Air Assist Tube	18
30024	Anti-Rotation Rod	19
30074	Shaft Collar 1/2"	20
30106	Tri-Tronics Photo Eye	21
30110	Foot Switch	22
30124	Filter/Regulator	23
30151	3/8" Shaft Stop Collar	24
31002	Pinch Roller	25
31003	Outboard Support Shaft	26
31008	Air Assist Bracket	27
31009	Pinch Roller Side Plate	28
31015	Plastic Bearing	29
31020	Cylinder Cross Mount Plate	30
31021	Cylinder Mount Plate	31
31053	80/20 Nut	32
31057	TAL-3100T Control Board	33
31060	Rewind Bracket	34
31282	V Belt Tensioner	35
31355	Drive Shaft	36
31373	V Belt Pulley	37
31380	V Belt Tensioner Roller	38





31701	Main Frame	39
31702	Tamp Head Plate	40
31703	Product Guide Bars	41
31721	Rubber Feet	42
31722	Valve Assembly	43
31723	Knobless Flow Control	44
31724	Miniature Flow Control	45
31725	Vacuum Generator	46
40007	On/Off Switch	47
45129	Waste Wind Shaft	48
45131	Waste Wind Clip	49
45136	Unwind Disc	50
45153	Power Cord Clamp	51
45155	Fuse Holder	52
45157	Fuse	53
45217	Power Cord	54
72618	Felt Pad	55
76800	Heavy Duty Motor	56
81830	½" Shaft Caps	57
81912	Small Cord Grip	58



## *Optional Accessories*

### *LION 6300/8200 Clear Label Photo Eye:*



1. Labels must pass under the “Sensing Area” indicator.
2. **Remove a label and place the liner only in the sensor.**
3. Press and hold the down arrow G button for at least one second. (Model 6300)
4. Press and hold both adjustment arrow buttons at the same time to set the sensor. (Model 8200)



### **Registered Ink Imprinter:**

The registered ink imprinter allows you to imprint an alphanumeric code on the label prior to application to the bottle. This is commonly used for batch codes, expiration dates, or lot codes.



- To adjust the printing location left to right on the web. Loosen two knobs and slide coder to appropriate location.



- To adjust the printing location with the flow of the web. Slide the roller forward or backwards to achieve desired print location.