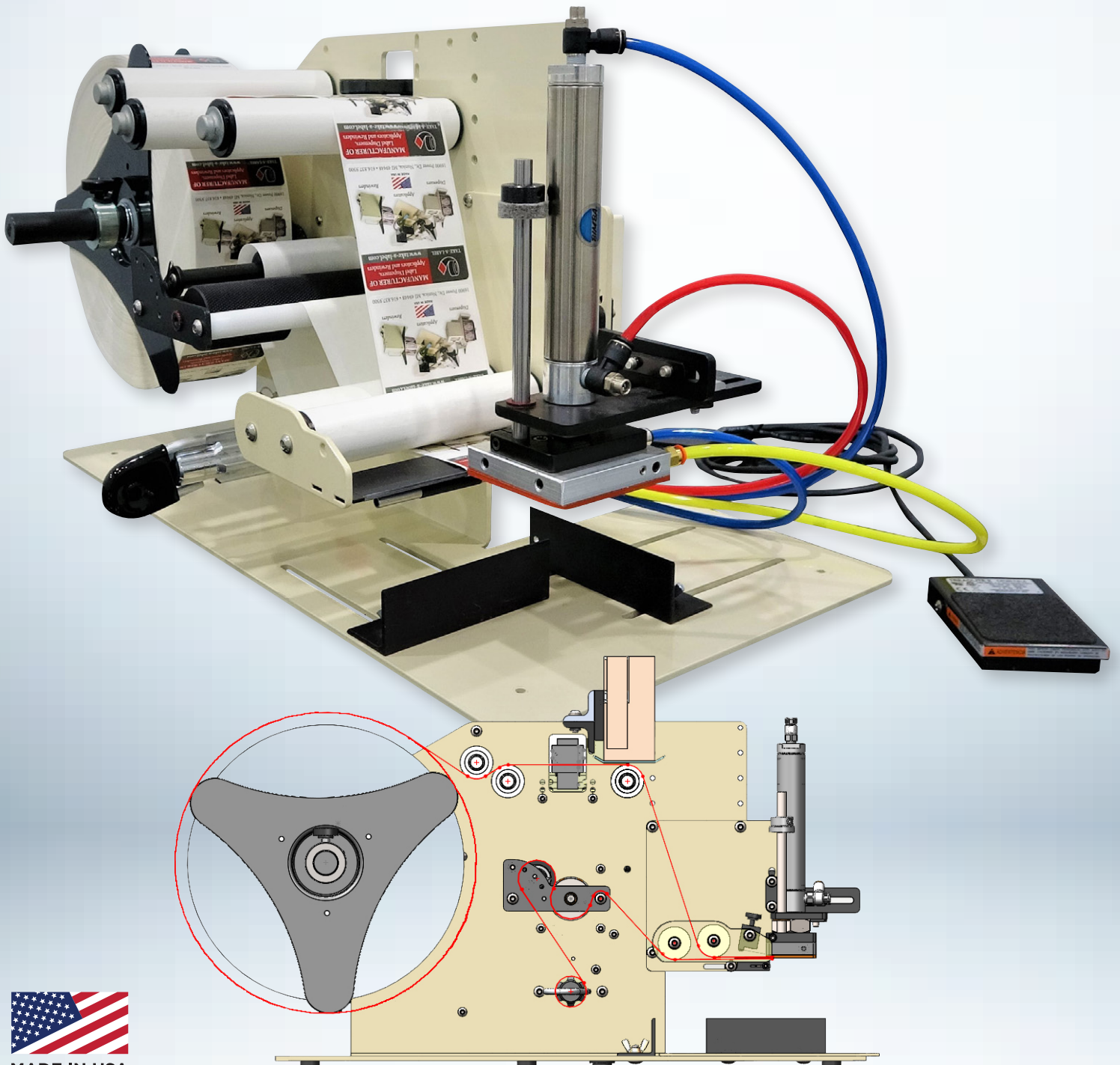
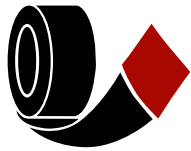


TAKE-A-LABEL

# Operations Manual TAL-3100T

Tamp Applicator





TAKE-A-LABEL

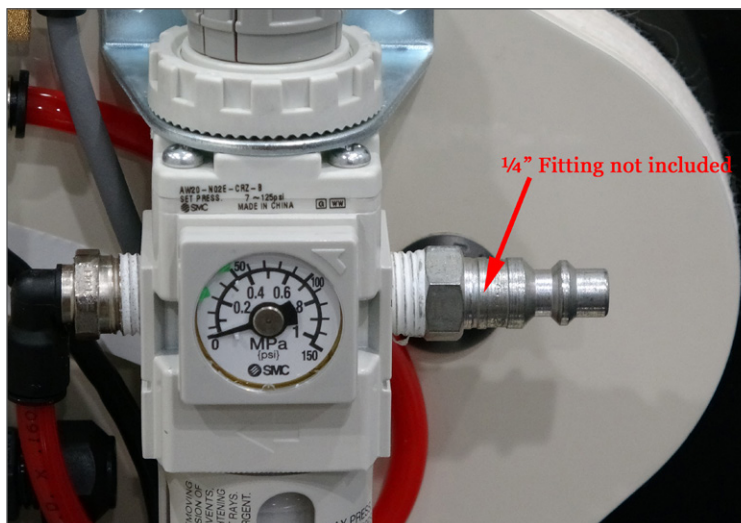
# TAL-3100T MACHINE STARTUP

Helpful setup videos can be found on included USB or at [www.take-a-label.com](http://www.take-a-label.com)

1. Unpack TAL-3100T Tamp Label applicator from shipping container and remove from base.
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.

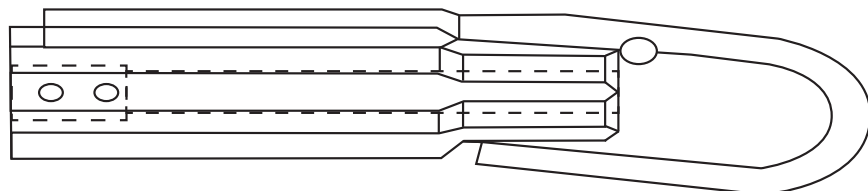
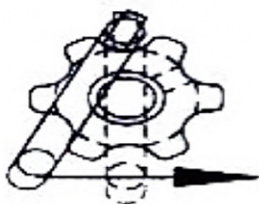
NOTES: • The TAL-3100T typically operates between 30-50 PSI depending on the label.

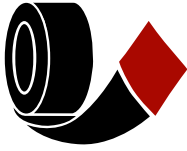
- When air is connected the vacuum generator will continually release air to create the vacuum effect.



## LABEL THREADING

1. Remove outer unwind disc (49) install new roll of labels and replace disc.
2. Pull label web under the first roller, through 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.





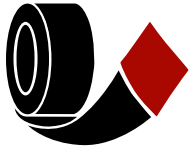
TAKE-A-LABEL

# TAL-3100T

## 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.

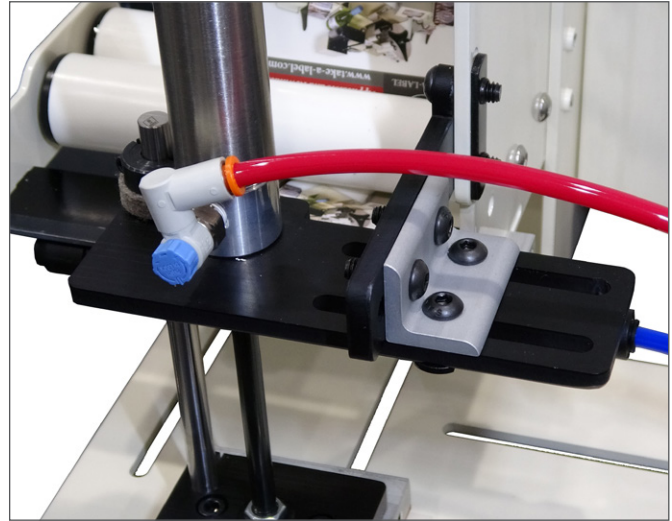
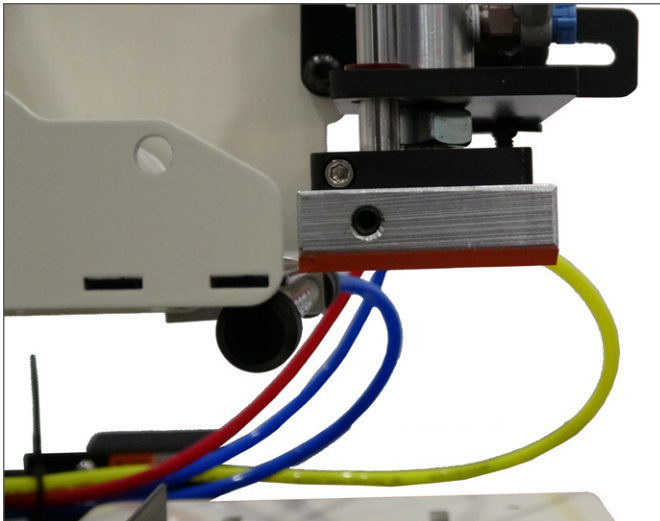
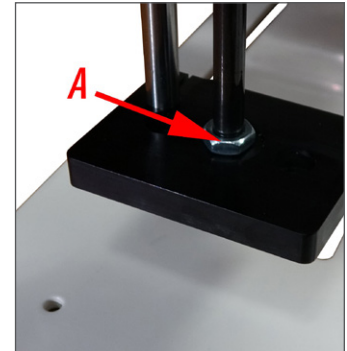




TAKE-A-LABEL

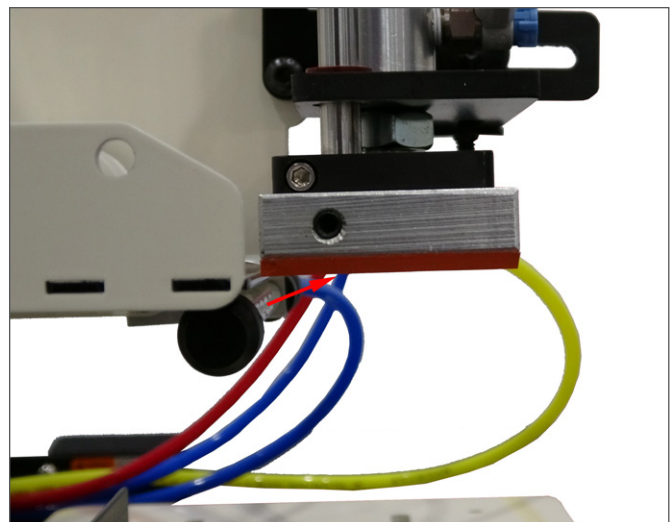
## TAL-3100T TAMP HEAD PLACEMENT

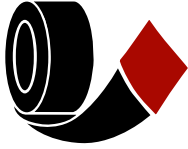
1. The tamp head placement is crucial for consistent label application.
2. The vertical gap between the top of peel plate and bottom of the tamp pad should range from 0" - 1/32". If not loosen the nut at the base of the tamp cylinder rod (Shown with red arrow A), and unthread to lower the tamp pad or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



## 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 patten 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.



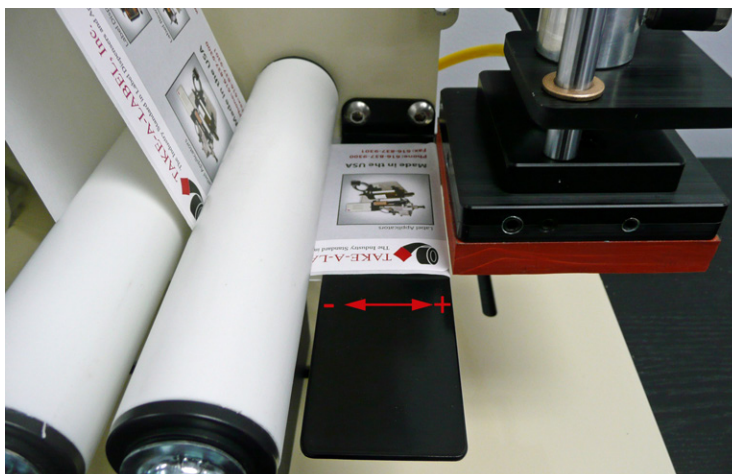


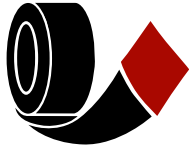
TAKE-A-LABEL

## TAL-3100T 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.

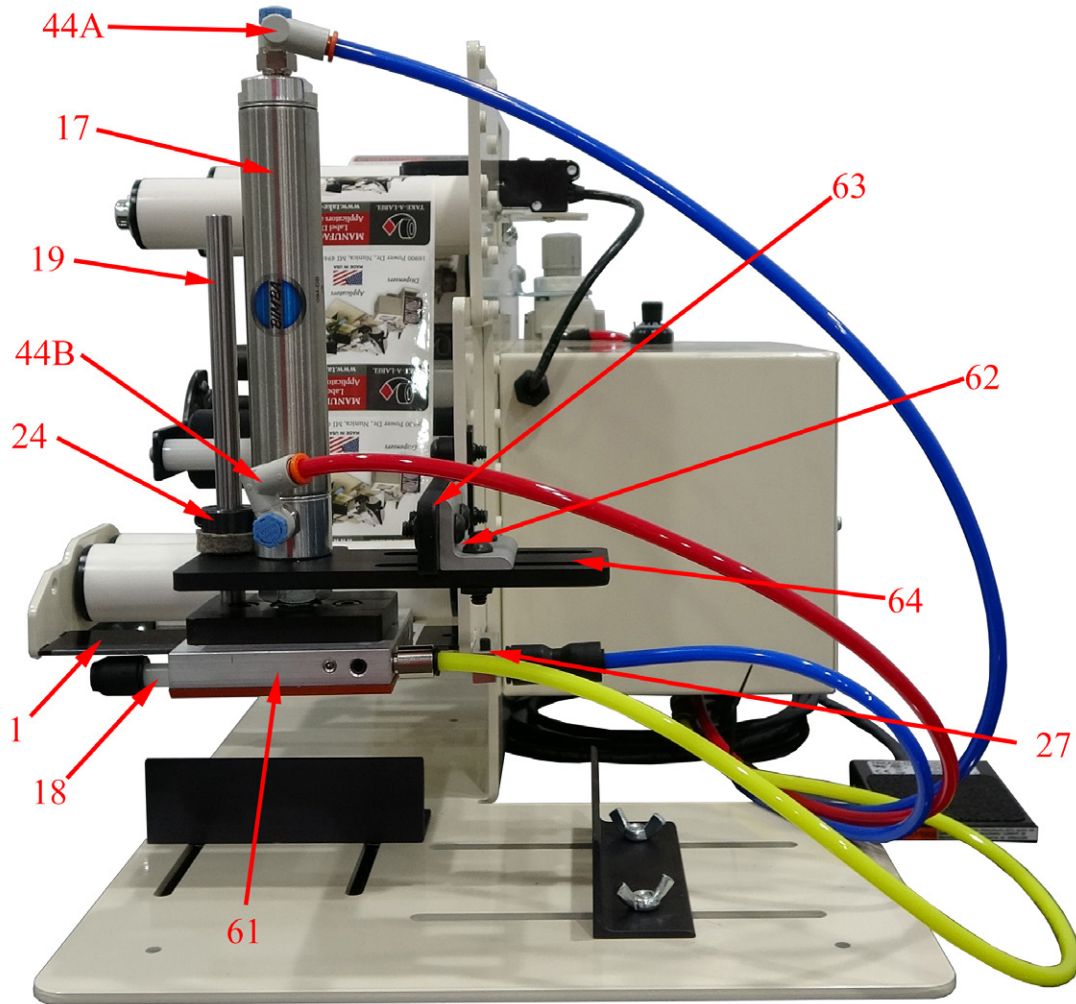
1. To setup the label position, rotate the label advance pot to the – as far as it will rotate.
2. The goal is to have the applicator stop with a label gap right at the peel edge.
3. Activate the applicator and watch the dispensing label. If the label does not advance far enough turn the label advance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



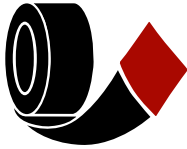


TAKE-A-LABEL

# TAL-3100T TAMP HEAD SPEED



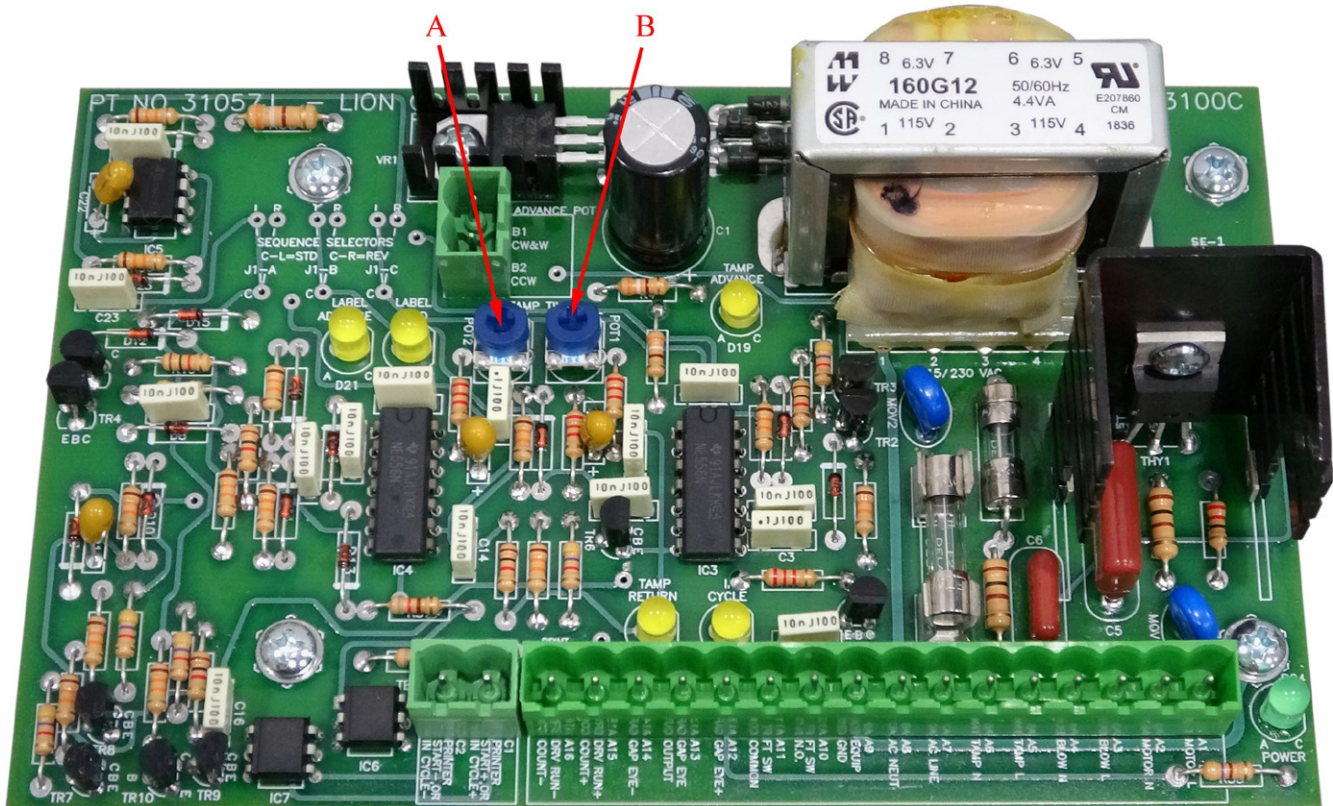
1. To adjust the speed of the tamp head going down to apply the label, turn the flow control (44A) clockwise to slow it down and counterclockwise to speed it up.
2. To adjust the speed of the tamp head returning to the ready position, turn the flow control (44B) counterclockwise to make the tamp head travel faster and clockwise to slow down.



TAKE-A-LABEL

# TAL-3100T

## TAMP HEAD DWELL TIME LABEL ADVANCE DELAY

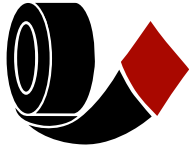


### ADJUSTING LABEL ADVANCE DELAY:

**Knob A:** increases or decreases the time before the label is advanced on to the tamp pad. This variance will occur after activating the footswitch and beginning the cycle.

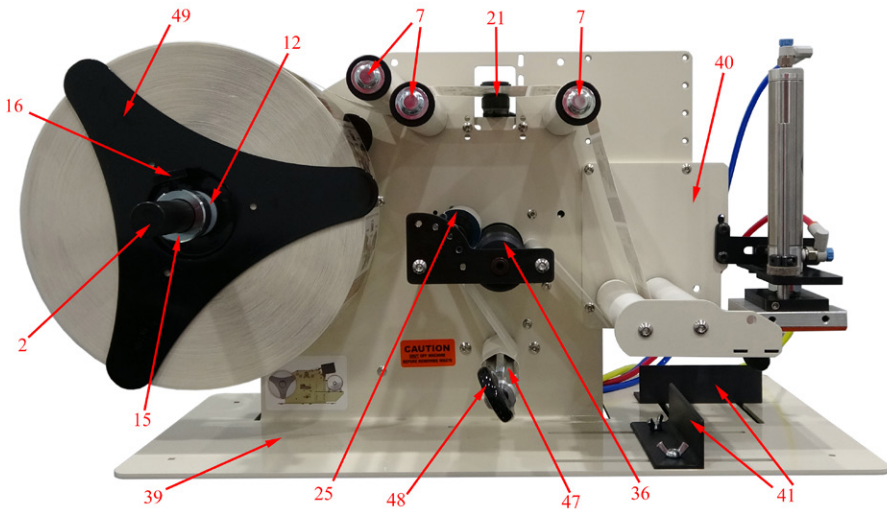
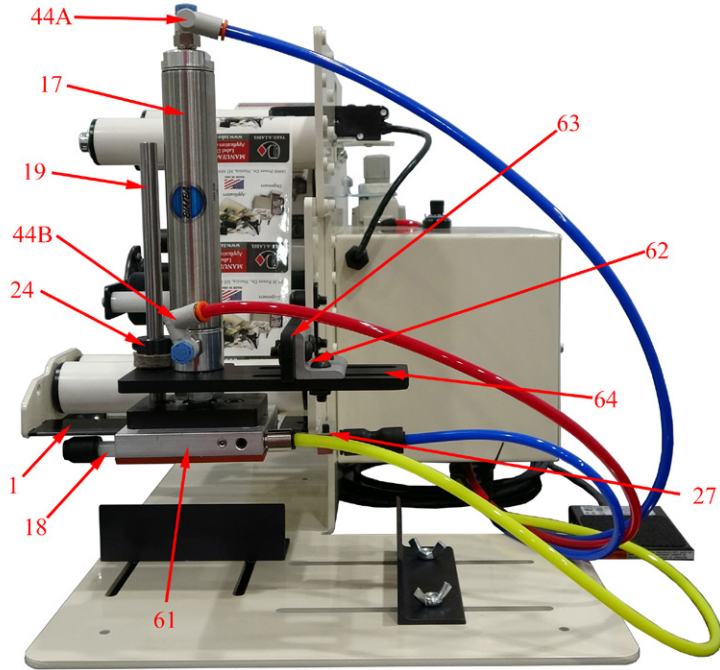
### ADJUSTING DWELL TIME:

**Knob B:** increases or decreases the amount of time the tamp pad remains at the bottom of the cylinders stroke. Before returning to the raised position.



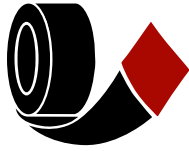
TAKE-A-LABEL

# TAL-3100T PARTS LIST



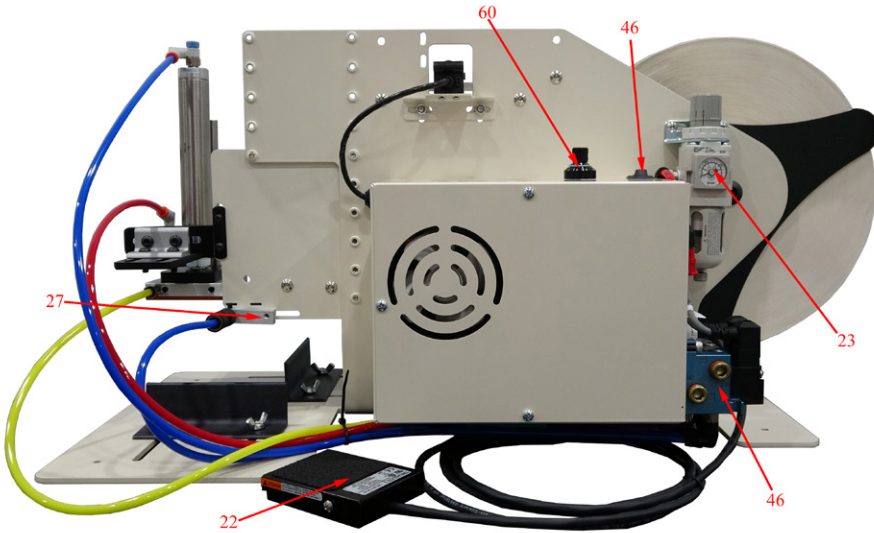
Item#	Description	#
11002	Peel Plate	1
11008	Unwind Shaft	2
21002	Housing	3
21003	Housing Cover	4
21004	Outboard Support Plate	5
21010	Pinch Roller Shaft	6
21011	Idler Roller Rod	7
21031	Drive V Belt	8
21026	Motor Spacers	9
21027	Left Torsion Spring	10
21028	Right Torsion Spring	11
25112	Unwind Washer	12
25113	Unwind Spring	13
25124	#8 Self Taping Screw	14
26001	Unwind Collar	15
26002	Unwind Hub Screw	16
30005	Pneumatic Cylinder	17
31718	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
31717	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



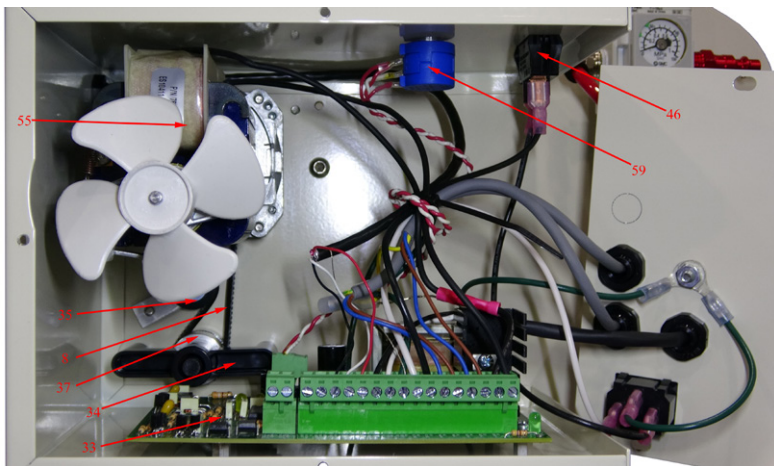


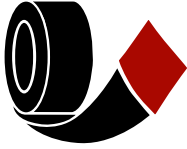
TAKE-A-LABEL

# TAL-3100T PARTS LIST



Item#	Description	#
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	Flow Control Valve	44
31725	Vacuum Generator	45
40007	On/Off Switch	46
45129	Waste Wind Shaft	47
45131	Waste Wind Clip	48
45136	Unwind Disc	49
25211	IEC Connector	50
45155	Fuse Holder	51
45157	Fuse	52
25212	Power Cord	53
72618	Felt Pad	54
76800	Heavy Duty Motor	55
81830	½" Shaft Caps	56
81912	Small Cord Grip	58
31417	Label Advance 10 Turn Pot with wires	59
31416	Label Advance Knob	60
30084	Custom Tamp Pad	61
31014	Connecting Bracket	62
31020	Cylinder Cross Mount Plate	63
31021	Cylinder Mount Plate	64

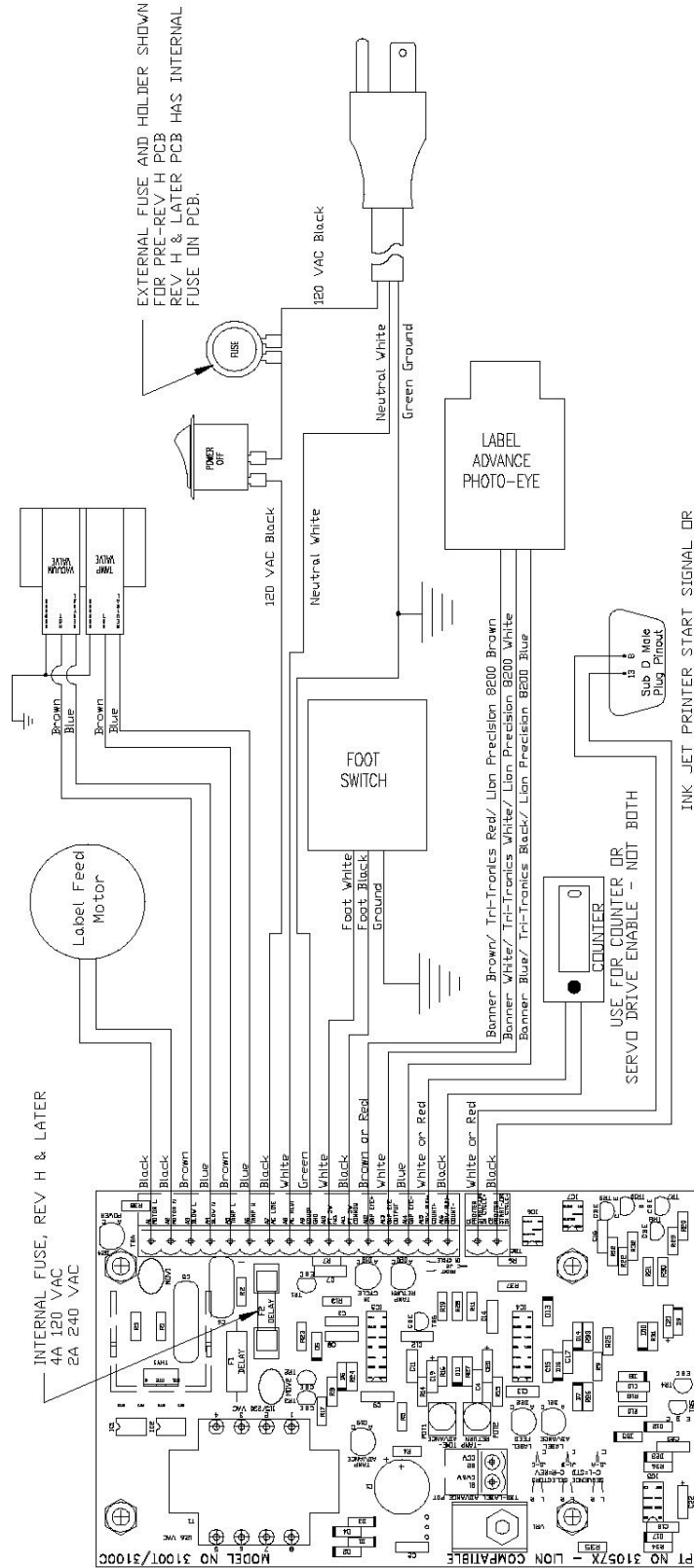




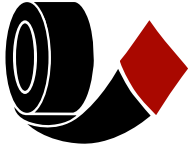
TAKE-A-LABEL

# TAL-3100T

## WIRING DIAGRAM



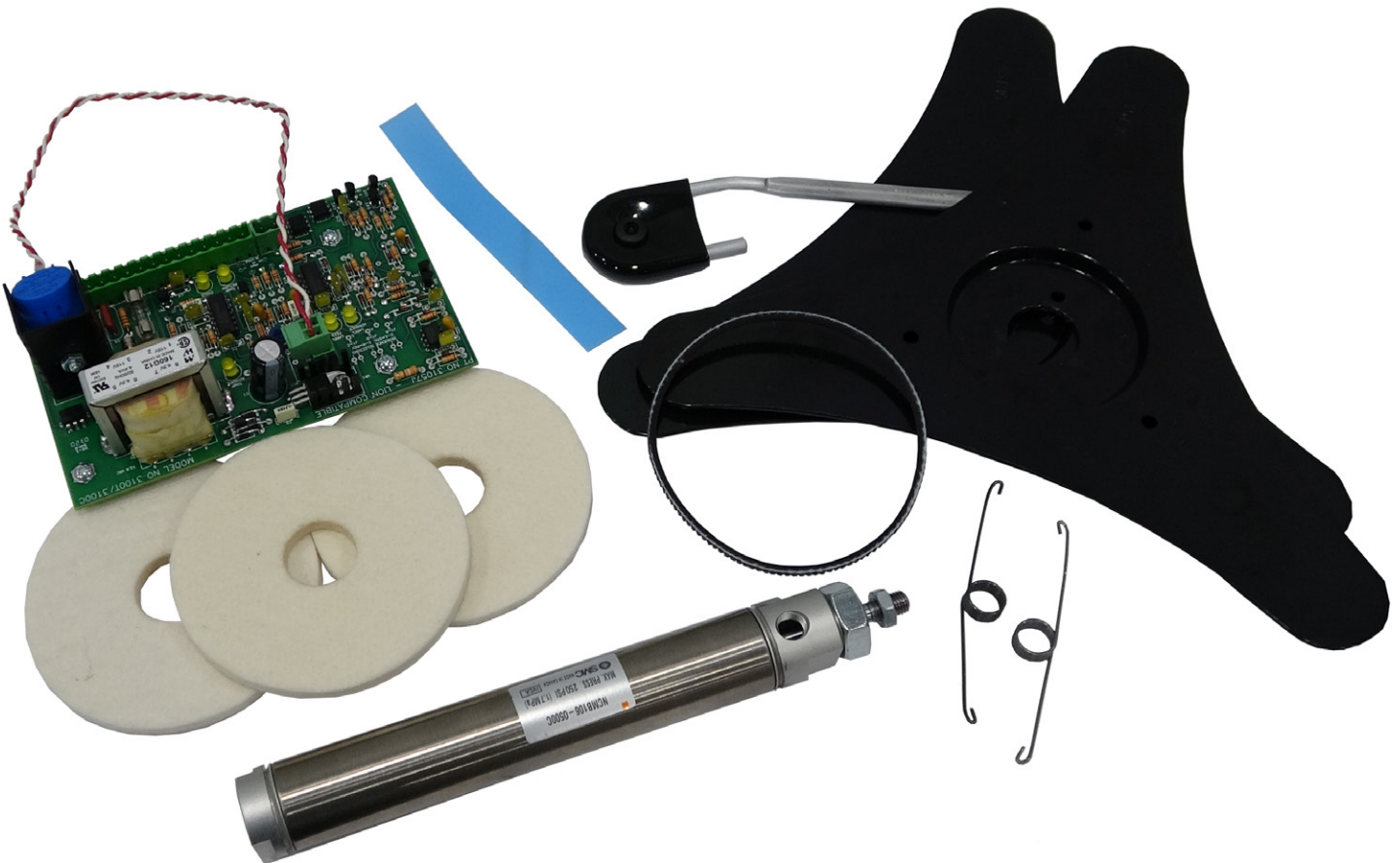
NOTE:  
PIN A15 AND A16, THE COUNT/DRIVE RUN OUTPUT IS ACTIVE DURING LABEL FEED ONLY.  
PIN C1 AND C2, WHICH ARE PRESENT ON PCB REV J AND LATER, HAVE SELECTABLE FUNCTIONS.  
THE PRINTER START/IN CYCLE OUTPUT IS ACTIVE  
DURING LABEL FEED ONLY IF J2 IS SET TO "PRINT"; THE OUTPUT IS  
ACTIVE DURING THE ENTIRE CYCLE IF J2 IS SET TO "IN CYCLE".

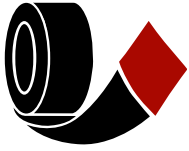


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# TAL-3100T SPARE PARTS LIST

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





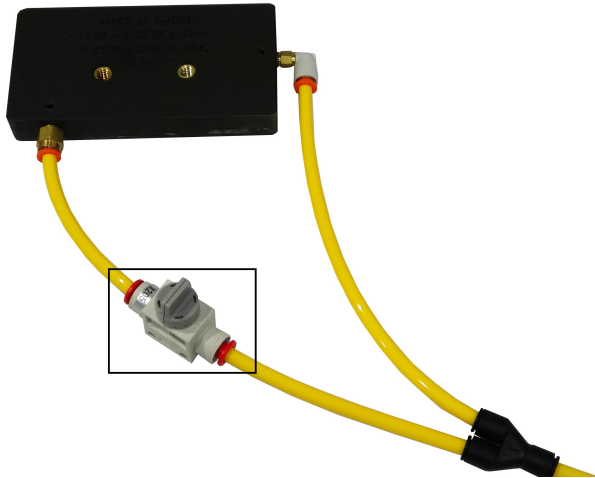
TAKE-A-LABEL

# TAL-3100T

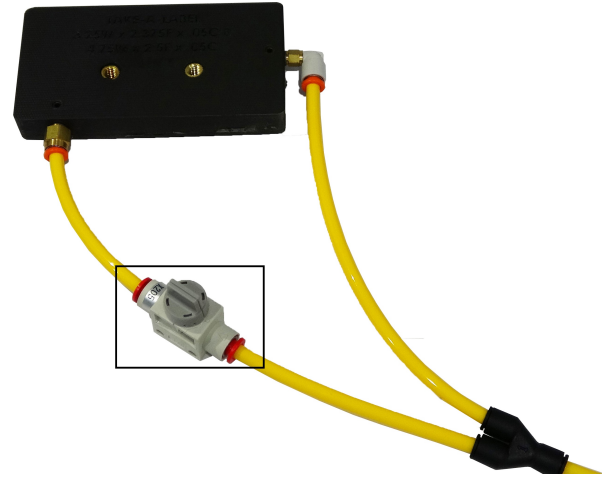
TAMP HEADS DESIGNED  
FOR MULTIPLE LABELS

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.

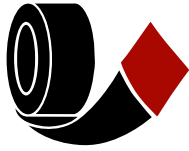
When running the largest label the valve should be open.



Valve Closed



Valve Open



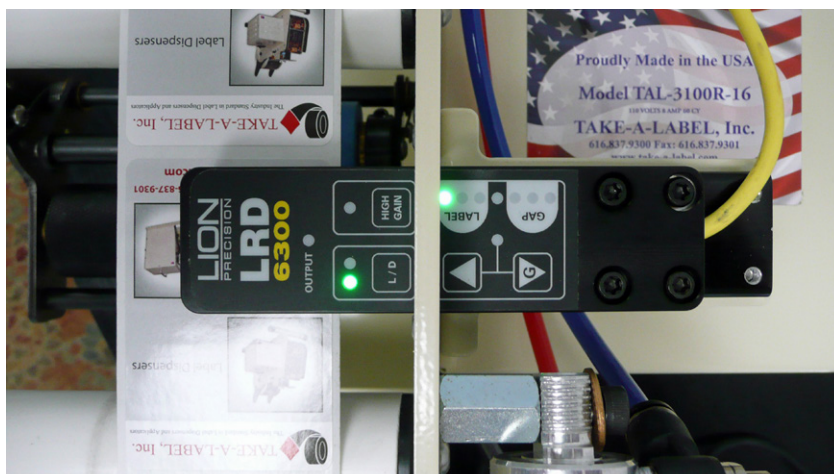
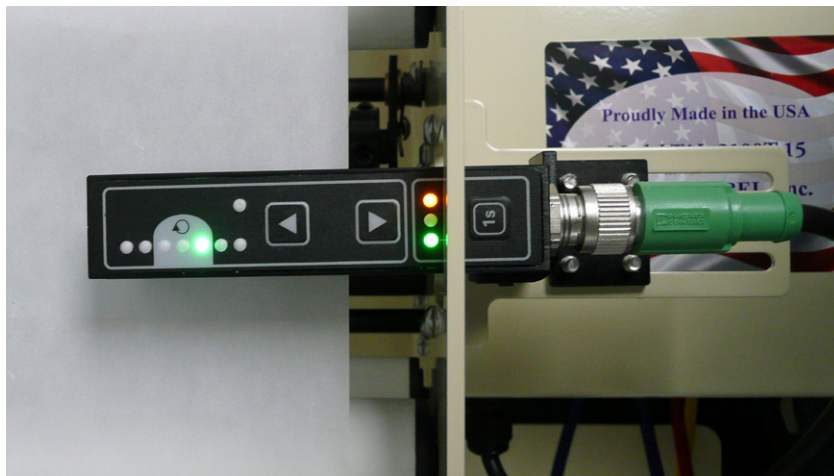
TAKE-A-LABEL

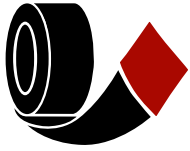
# TAL-3100T

## CLEAR LABEL PHOTO EYE

### 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)



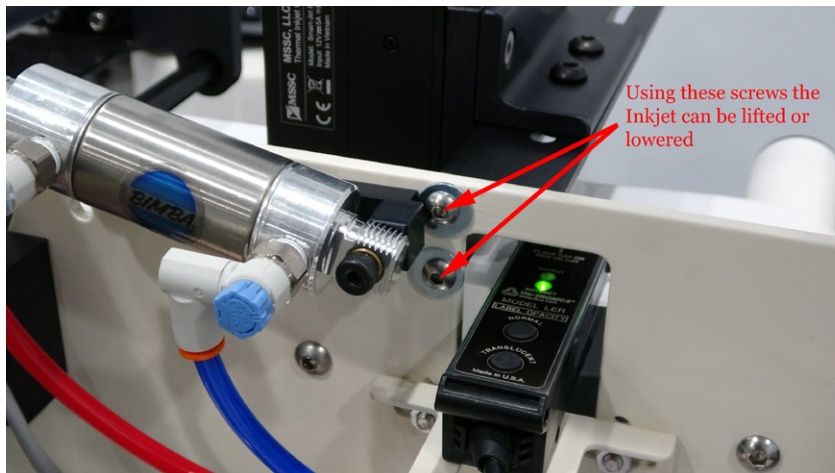
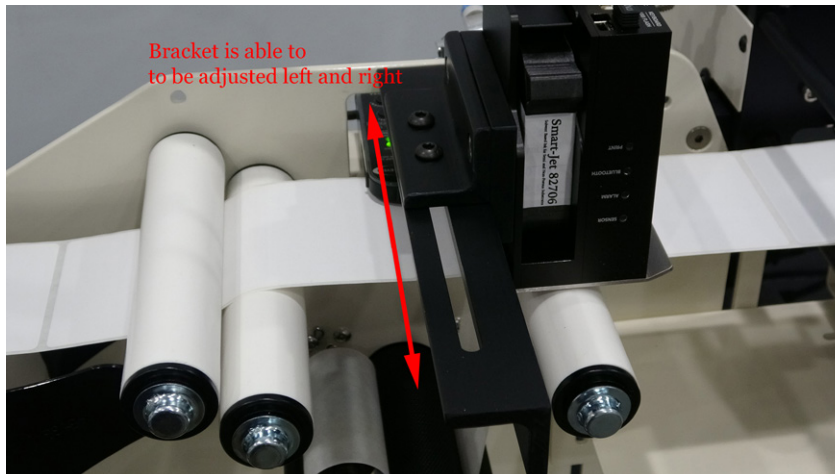


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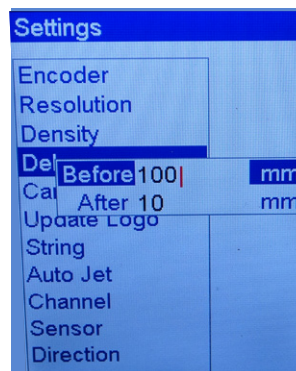
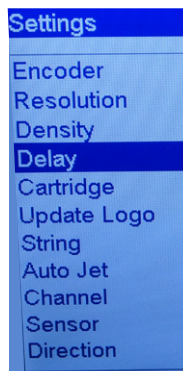
# TAL-3100T

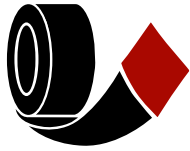
## THE SMART JET INKJET PRINTER

The Smart Jet Inkjet printer will print on virtually any label stock. This printer is a great solution when you need to add an expiration date, a batch code or other information to a label prior to application. Using a wireless keyboard the printer is easily programmed. Using trusted Hewlett Packard technology and capable of printing up to 6 lines of information the Smart Jet Inkjet is a great solution for coding your label.



Found in the Settings changing the delay will move the location of the print on your label. Increasing the "Before" will move the print back and decreasing the "Before" will move it forward.





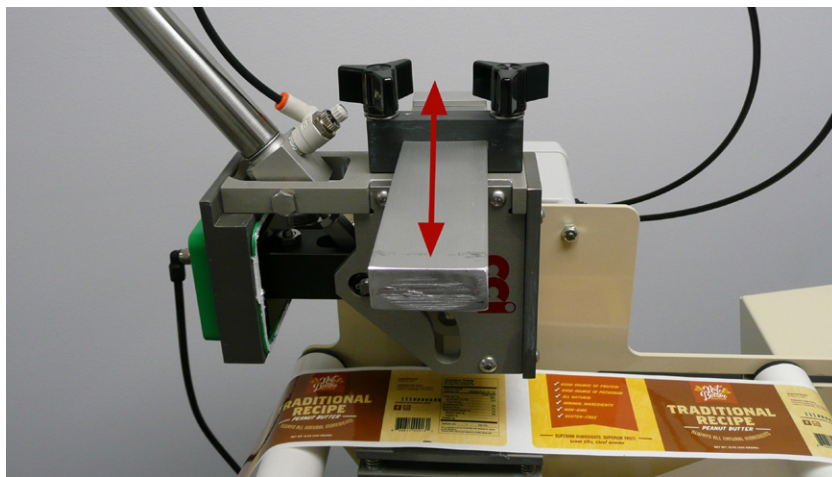
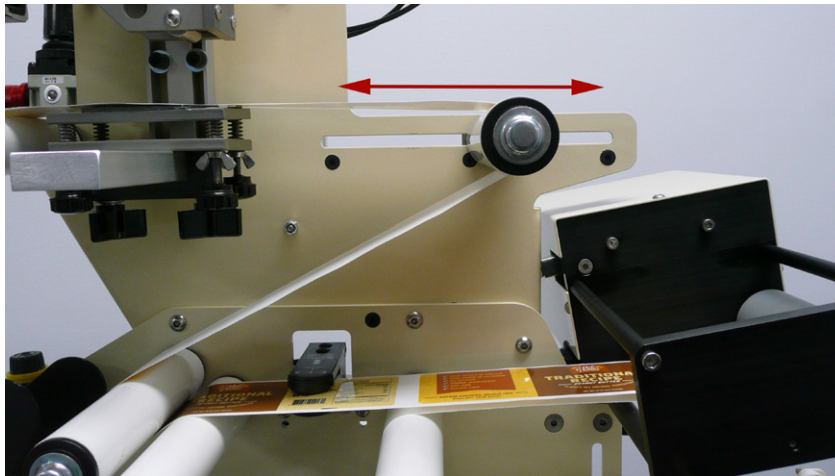
TAKE-A-LABEL

## TAL-3100T OPTIONAL ACCESSORIES

### 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.

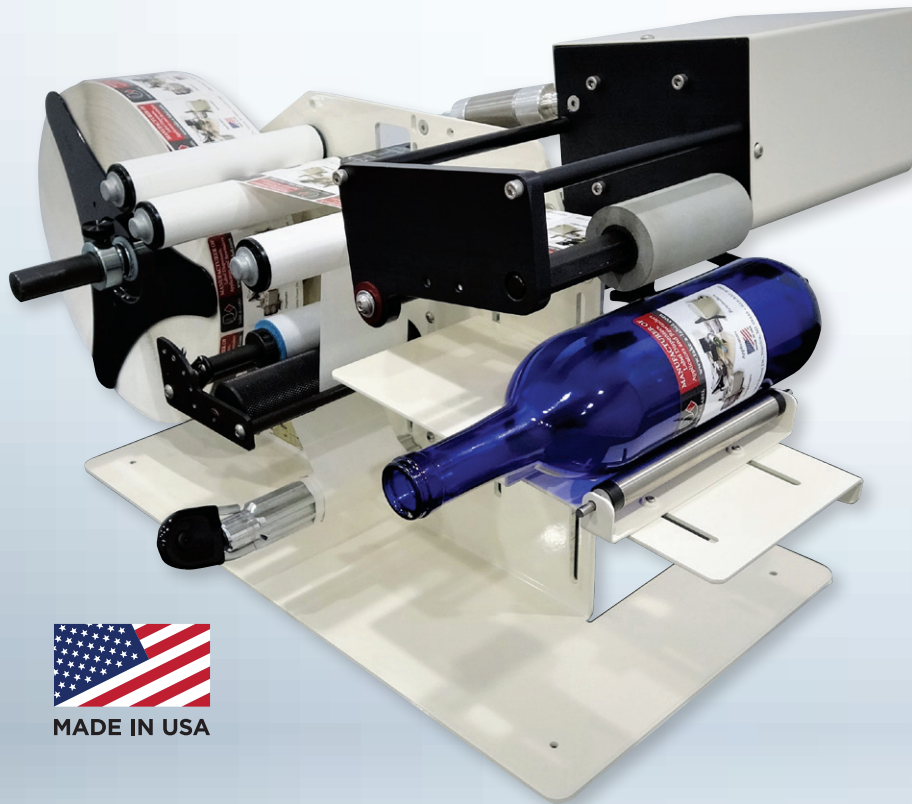
- To adjust the printing location left to right on the web. Loosen two knobs and slide coder to appropriate location.
- To adjust the printing location with the flow of the web. Slide the roller forward or backwards to achieve desired print location.



ALSO AVAILABLE FROM TAKE-A-LABEL, INC.

Do you need to label bottles, jars  
or other round products?

**TAL-3100R**  
*Round Product Label Applicator*



**TAKE-A-LABEL, Inc.**

The Industry Standard in Label Dispensers and Applicators

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