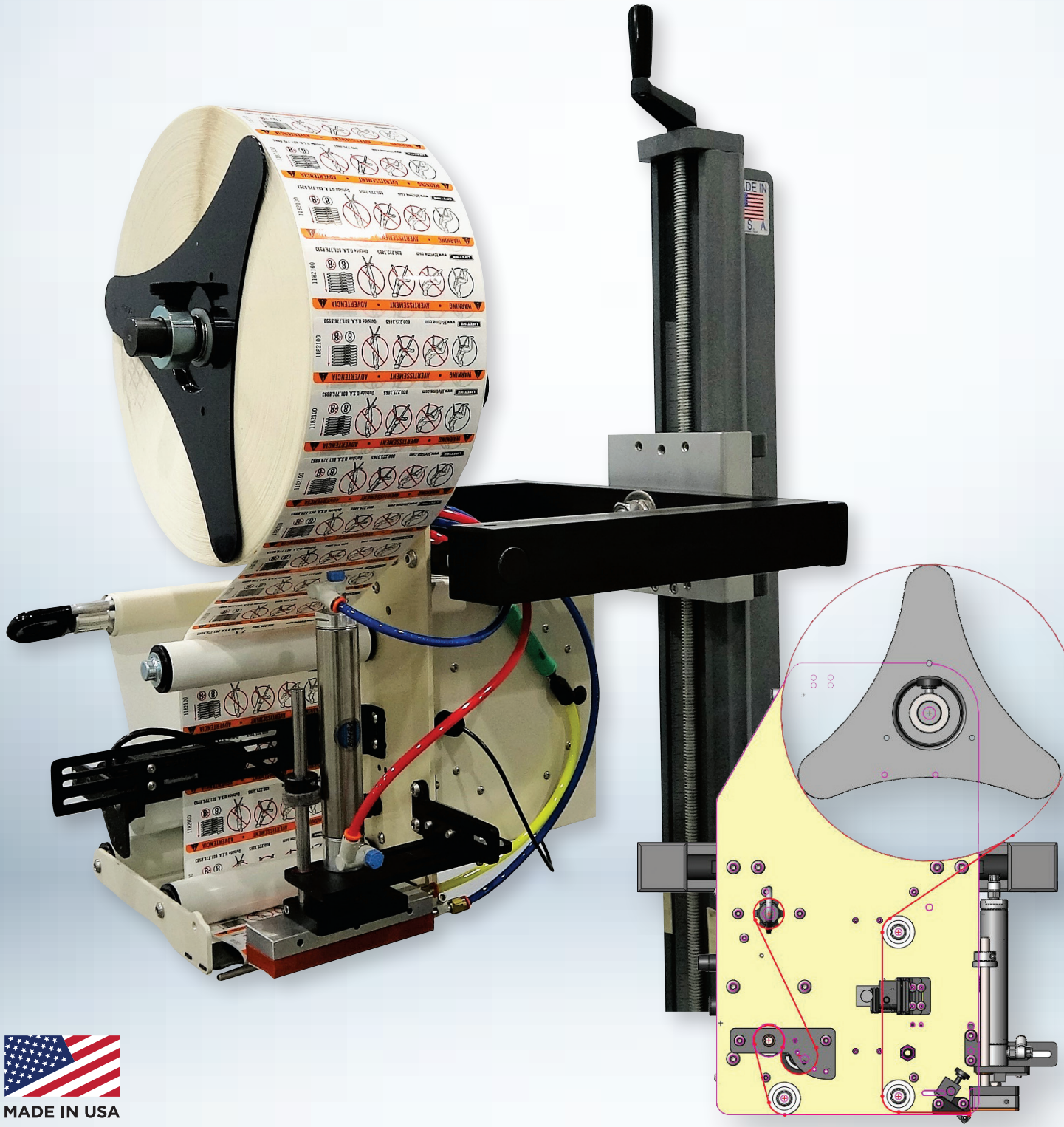
TAKE-A-LABEL

Operations Manual
TAL-3100C

Tamp Applicator

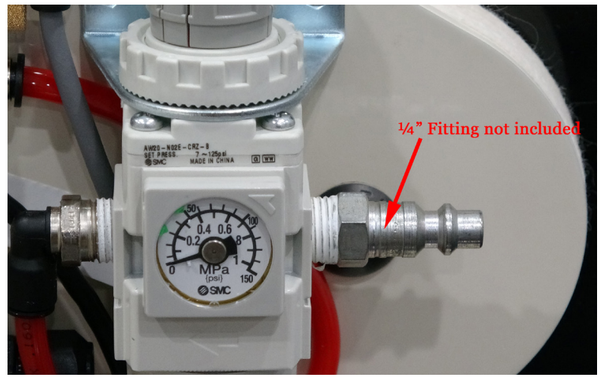


MADE IN USA

TAKE-A-LABEL

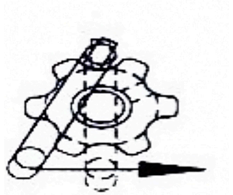
MACHINE STARTUP

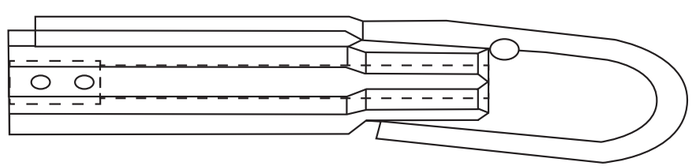
1. Mount the TAL-3100C on an appropriate mounting stand. Be sure to mount the labeler using only the mounting arms.
2. Plug the TAL-3100C directly into a 110 VAC 15-amp Grounded outlet. Extension cords may result in improper labeler operation and are not recommend by Take-A-Label, Inc.
3. Connect the labeler to a sufficient air supply. Note: air requirements are 60 PSI clean dry air.
   NOTE: The TAL-3100C Typically operates between 30-50 PSI. When air is connected the vacuum generator will continually release air to create the vacuum effect.



LABEL THREADING

1. Remove outer unwind disc (53) and install new roll of labels and replace disc.
2. Pull label web under the first Idler Roller (25), and through photo eye (18). Continue pulling the web downward and thread between bottom of roller (25) and the top of the Peel Plate (1).
3. Pull the web back under the Peel Plate (1), pulling toward the rear of the machine.
4. Keep the liner under the last Idler roller (25), pulling web up and wrapping over the drive roller (39), and down between the drive roller (39) and pinch roller (22). Then up to the waste wind shaft (52).
   NOTE: The pinch roller (22) is spring loaded. Slight pressure will be needed to separate the pinch roller from the drive roller for threading.
5. Install waste wind clip (3) on waste wind shaft (52) pinching the webbing between the shaft and the clip.





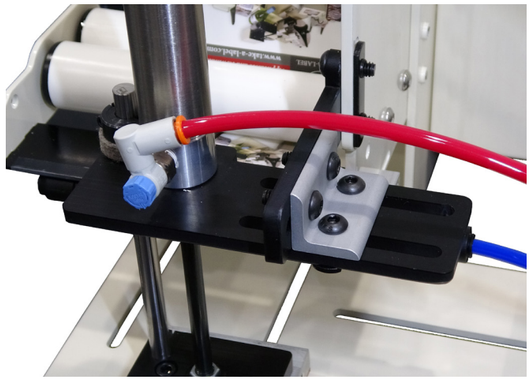
TAL-3100C
LABEL SET UP

The label advance potentiometer resides on top of the TAL-3100C 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.

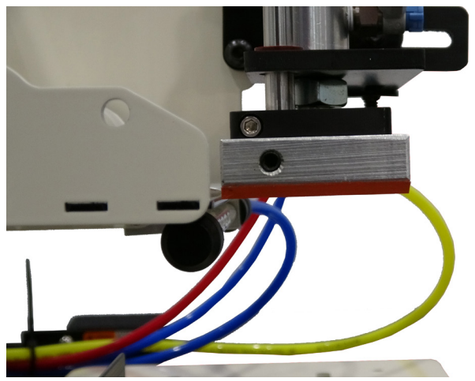
TAMP HEAD PLACEMENT

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.



TEACHING THE PHOTO EYE

1. It is recommended that you teach the photo eye (18) 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

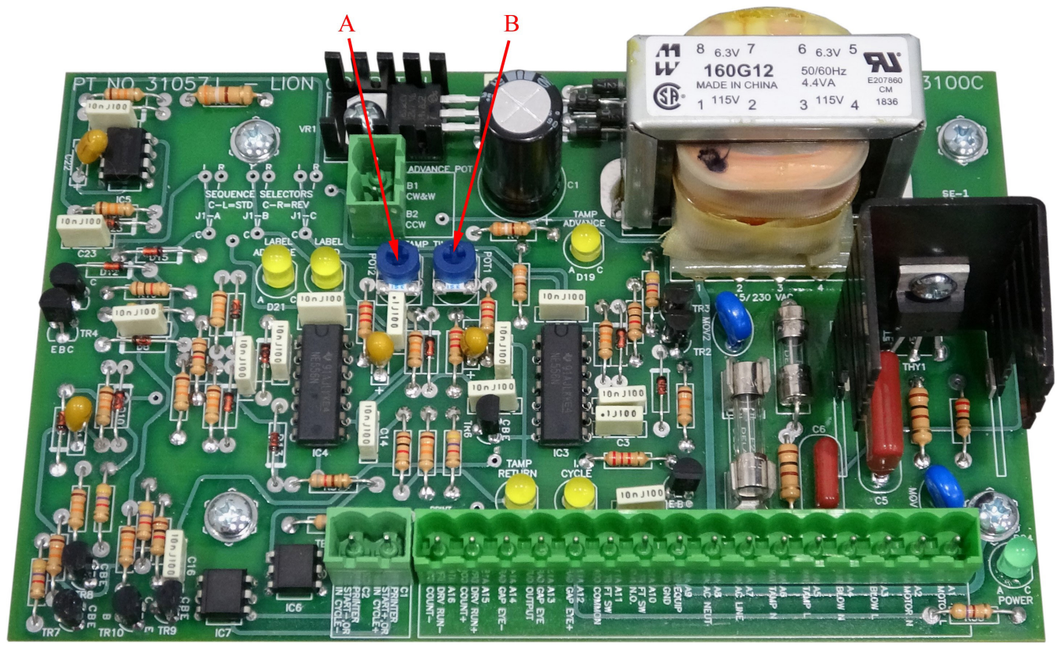
TAMP HEAD DWELL TIME - LABEL ADVANCE DELAY

ADJUSTING DWELL TIME:

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 LABEL ADVANCE DELAY:

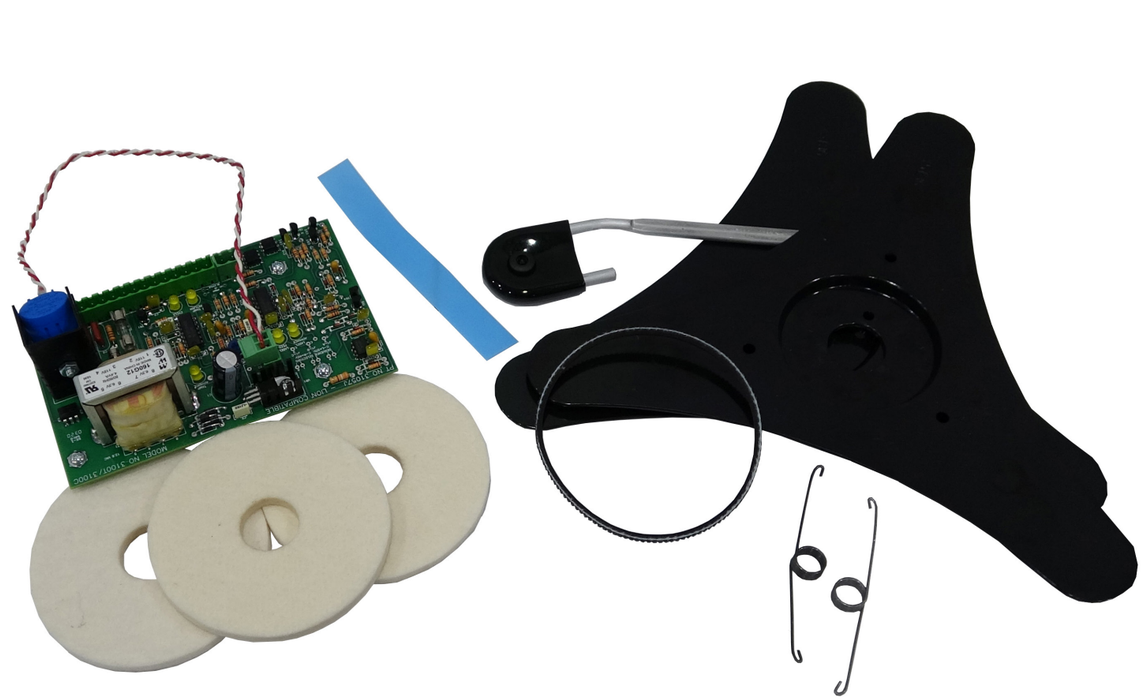
Knob B: increases or decreases the amount of time the tamp pad remains at the bottom of the cylinders stroke. Before returning to the raised position.



TAL-3100C
RECOMMENDED SPARE PARTS LIST

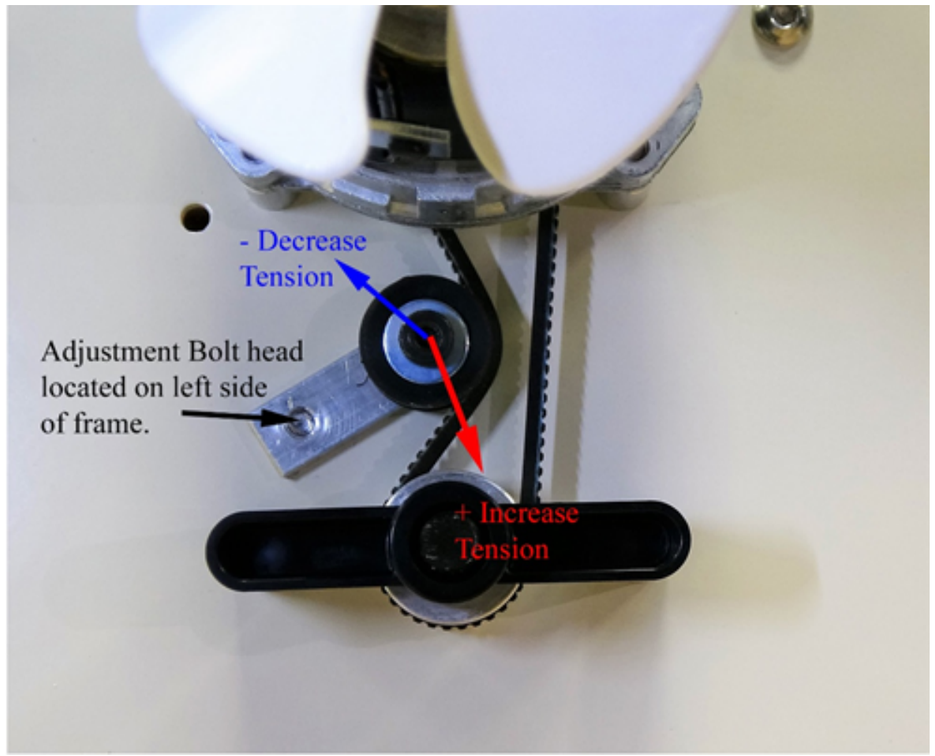
Item#	Description	#
31002	Pinch Roller	1
45131	Waist wind Clip	1
45136	Unwind Disc	2
30031	Motor	1
30106	Photo Cell Label Sensor	1
31267	Drive “V” Belt	2

Item#	Description	#
31057	Circuit Board	1
72618	Unwind Felt Washer	1
31375	Peel Edge Cover	1
21027	Left Hand Torsion Spring	2
21028	Right Hand Torsion Spring	2

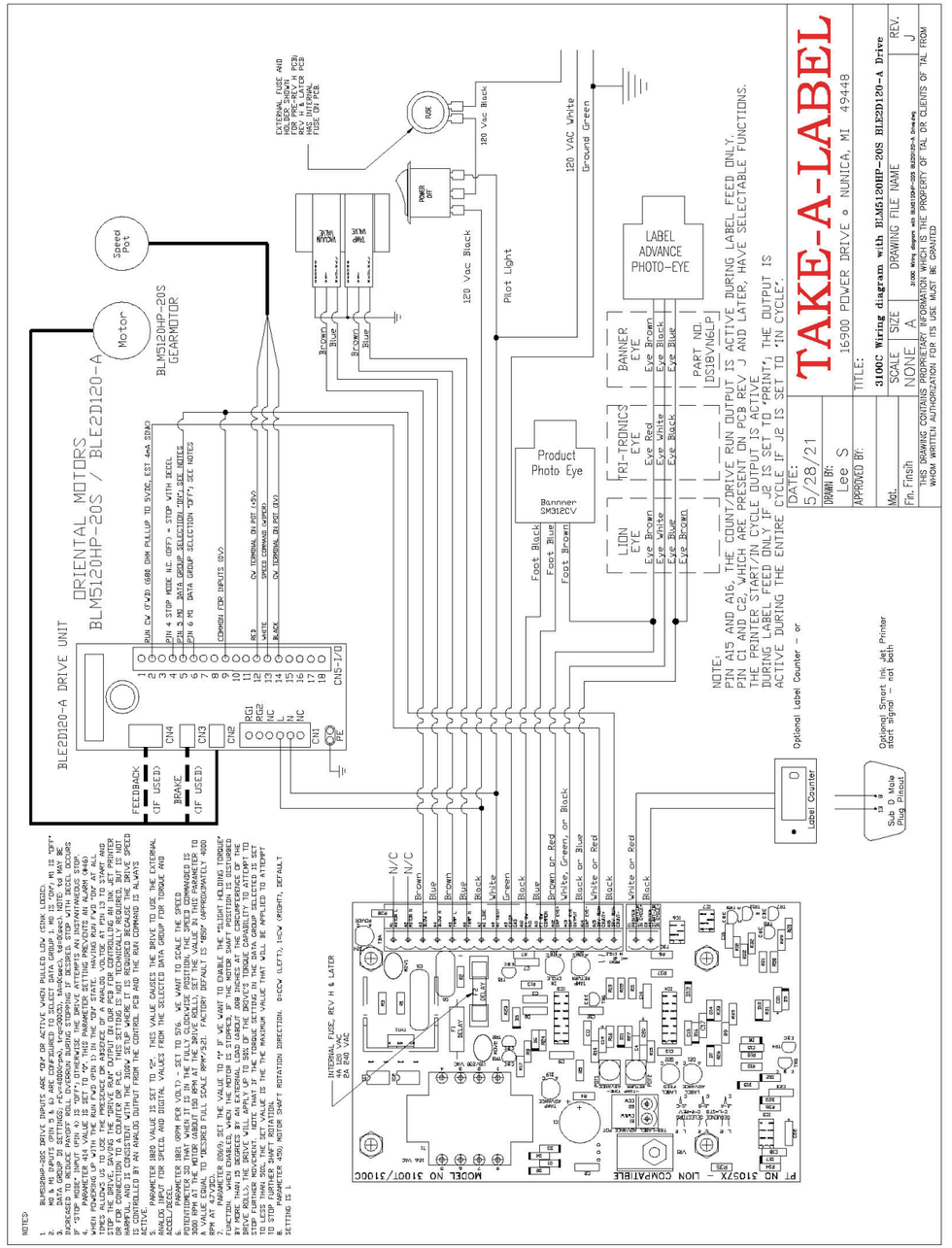


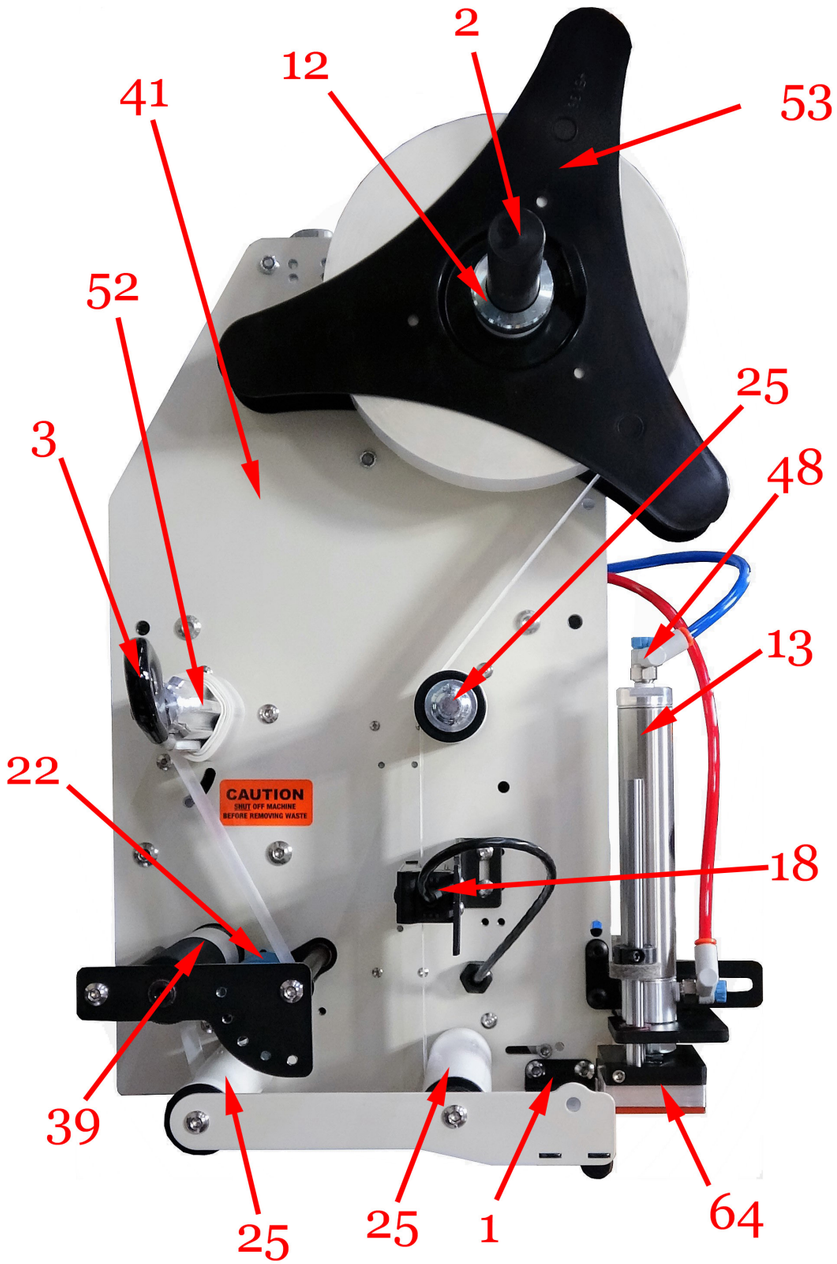
Depending on frequency of use and importance of the machine function, this list may need to be modified to include more items or higher quantities of each part to prevent any down time.

The pulley tension is set at the factory. It is set with moderate tension on the belt.



To Adjust: Find the head of the adjustment bolt on the opposite side of the frame. Loosen it and rotate the belt tensioner. Rotating to the + (Illustrated by the Red Arrow) will increase the tension. Use this adjustment if the waste liner is not being rolled up. Rotating to the – (Illustrated by the Blue Arrow) will decrease the tension. Use this adjustment if the waste liner is breaking or stalling the label applicator.





TAL-3100C
PARTS LIST

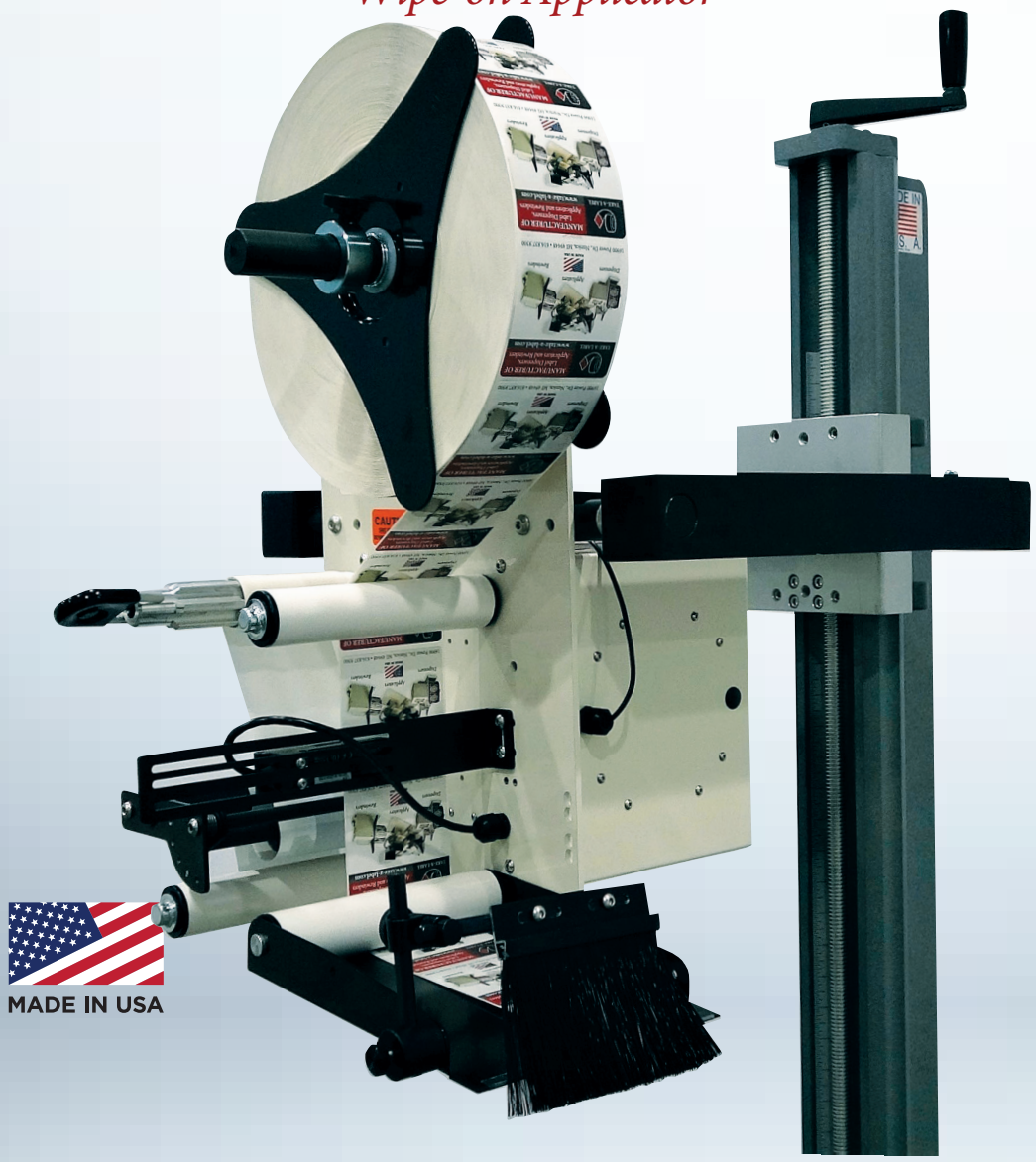
Item#	Description	#	Item#	Description	#
11002	Peel Plate	1	31053	T-Nut/ Bond/8020	33
11008	Unwind Shaft	2	31140	TAL-3100C/W Housing	34
45129	Waste Wind Clip	3	31141	TAL-3100C/W Cover	35
21004	Outboard Support Plate	4	31057	Control Board	36
21010	Pinch Roller Shaft	5	31059	Label Advance	37
21012	3” Drive Shaft	6	31060	Rewind Bracket	38
21027	Torsion Spring LH	7	31102	Driver Roller	39
21028	Torsion Spring RH	8	31142	Motor Spacer	40
25112	Unwind Washer	9	31143	TAL-3100C/W Frame	41
25113	Unwind Spring	10	31267	V Belt	42
26001	Unwind Collar	11	31282	V Belt Tensioner	43
26002	Unwind Hub	12	31373	V Belt Pully	44
30005	Pneumatic Cylinder	13	31717	Air Assist Tube	45
30024	Anti-Rotation Rod	14	31718	Air Assist Bracket	46
30029	Tamp Pad Base Plate	15	31722	Valve Assembly	47
30031	Motor; TAL 3100C/DC	16	31723	Flow Control Tube	48
30074	CTC 114 Shaft Collar 1/2"	17	31725	Vacuum Generator	49
30106	Tri-Tronics Label Eye	18	31047	Extended Scanner Bracket	50
30124	Filter Regulator	19	40007	On/Off Switch	51
30151	CTC Shaft Collar	20	11016	Waste Wind Shaft	52
30653	½-13 x 3/4” BHCS	21	45136	Unwind Disk	53
31002	Pinch Roller	22	25212	Power Cord	54
31003	Outboard Support Shaft	23	72618	White Felt 4x4	55
31004	Idler Roller Shaft	24	81830	Shaft Caps	56
31006	Idler Roller	25	81912	Small Cord Grip	57
31009	Pinch Roller Side Plate	26	31144	TAL-3100C Threading Label	58
31014	Connecting Bracket	27	31146	TAL-3100C Name Label	59
31015	Plastic Bearing	28	31824	Shoulder Bolt 10-32	60
31017	Long Bushing	29	25102	3/8” Black Plug	62
31020	Cylinder Cross Mount Plate	30	30208	Photo Eye Product Sensor	63
31021	Cylinder Mount Plate	31	30084	Custom Tamp Pad	64
31029	Rewind Bushing	32			

ALSO AVAILABLE FROM TAKE-A-LABEL, INC.

Do you need to label bags, boxes or other flat products?

TAL-3100W

Wipe-on Applicator



MADE IN USA

TAKE-A-LABEL, Inc.

The Industry Standard in Label Dispensers and Applicators

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