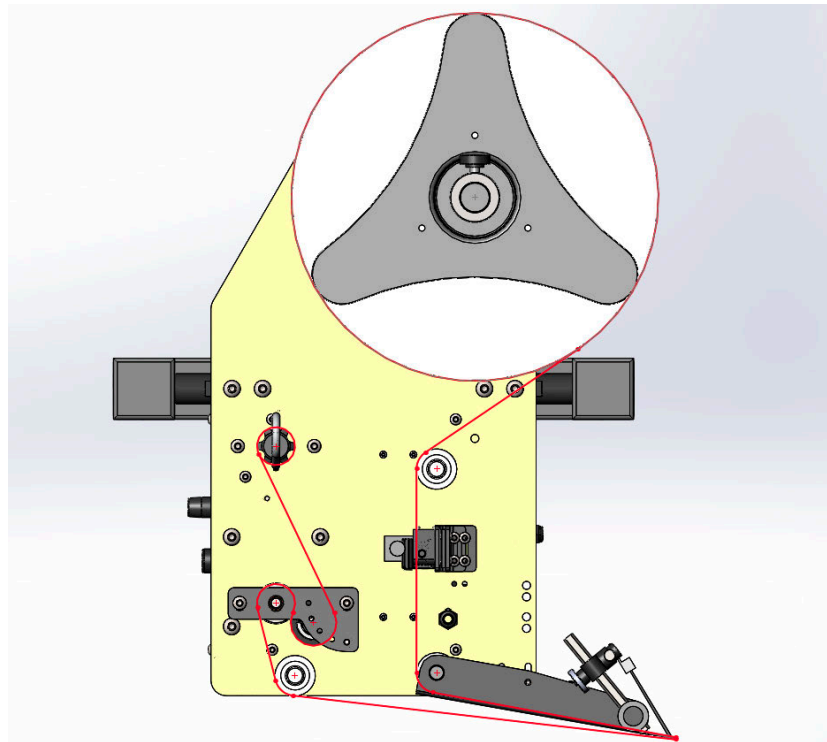


# ***TAKE-A-LABEL, Inc.***

## ***Operation Manual TAL-3100W Wipe-on Applicator***



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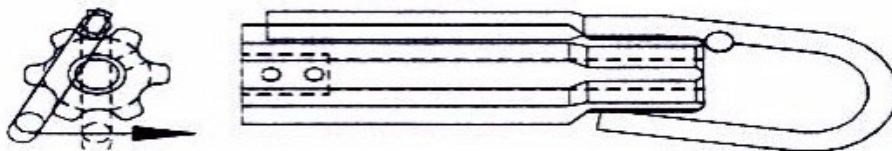
## ***TAL-3100W Wipe-on Applicator***

### **Machine Startup:**

1. Mount the TAL-3100W on an appropriate mounting stand. Be sure to mount the labeler using only the mounting holes.
2. Plug the TAL-3100W directly into a 110 VAC 15-amp Grounded outlet.  
Extension cords may result in improper labeler operation and are not recommended by Take-A-Label, Inc.

### **Label Threading:**

1. Remove outer Unwind Disc (46) and install new roll of labels, replace outer disc (46).
2. Pull label web under the first Idler Roller (20A), and through Photo Eye (14).  
Continue pulling the web downward and thread between bottom of roller (20C) and the top of the Peel Plate (43).
3. Pull the web back under the Peel Plate (43), pulling toward the rear of the machine.
4. Keep the liner under the last Idler Roller (20B), pulling web up and wrapping over the Drive Roller (29), and down between the Drive Roller (29) and Pinch Roller (18).  
Then up to the Waste Wind Shaft (2).
  - a. Note: The Pinch Roller (18) is spring loaded. Slight pressure will be needed to separate the Pinch Roller from the Drive Roller for threading.
5. Install Waste Wind Clip (45) on Waste Wind Shaft (2) pinching the webbing between the shaft and the clip.



## Teaching the photo eye:

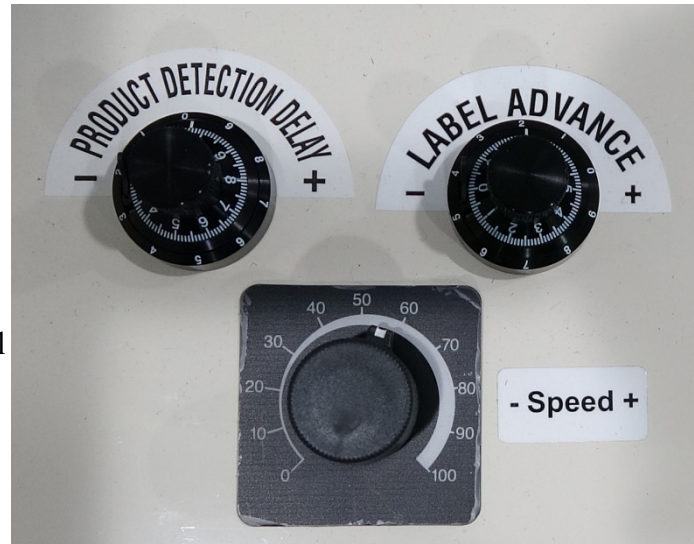
1. It is recommended that you teach the photo eye (14) with every new roll of labels used.
2. Remove one label from the webbing and place the webbing only in the photo eye.
3. Press and hold the “Normal” button on photo eye for 3 seconds. When the lights finish flashing the photo eye is taught.



## **Label Speed and Product Detection Delay:**

### ***Label Speed:***

In order to apply labels properly, the TAL-3100W must dispense at the same speed as the product moving under it. **Note:** Calibrate label speed first, calibrate Label Advance second, Label Advance will change if speed changes.



1. The Label Speed and Product Detection dials are located on top of the labeler's control housing.
2. Use the Label Speed +/- dial to increase or decrease the speed the label is dispensed.
  - a. Increase the speed if the product is pulled off the conveyor, or the product drags back as the label is dispensed, or the backing paper is pulled off the labeler.
  - b. Decrease the speed if the label wrinkles as it is applied.

### ***Product Detection Delay:***

1. Set the Product Detection dial to the – as far as it will rotate.
2. As the dial is turned clockwise (+ side), the length of delay before a label is dispensed will increase.

## **Label Advance Setup:**

**Note:** Do not set up the Label Advance before setting speed, Label Advance will be thrown off due to speed changes.

The label advance potentiometer resides on top of the TAL-3100W 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 clockwise toward the + the applicator will delay longer before stopping.

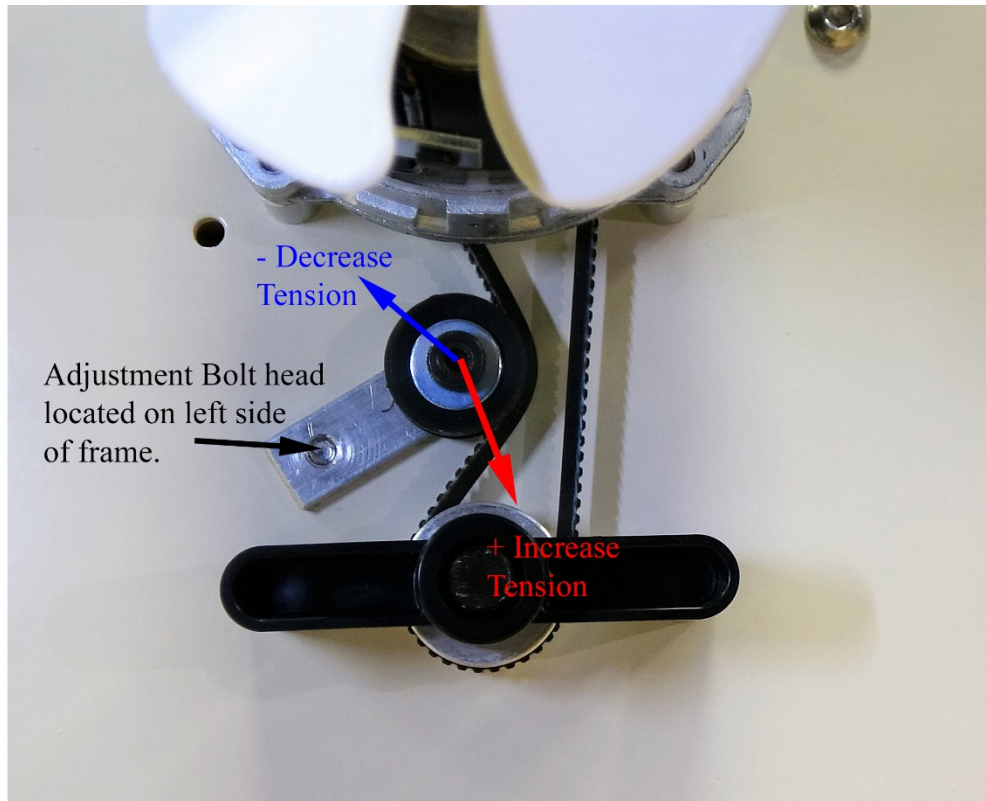
1. To setup the label stop position, rotate the label advance pot counterclockwise to the – as far as it will rotate.
2. The goal is to have the applicator stop with a label gap right at the peel edge.
3. Activate the applicator and watch the dispensing label. If the label does not advance far enough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





## **Rewind Belt Tension:**

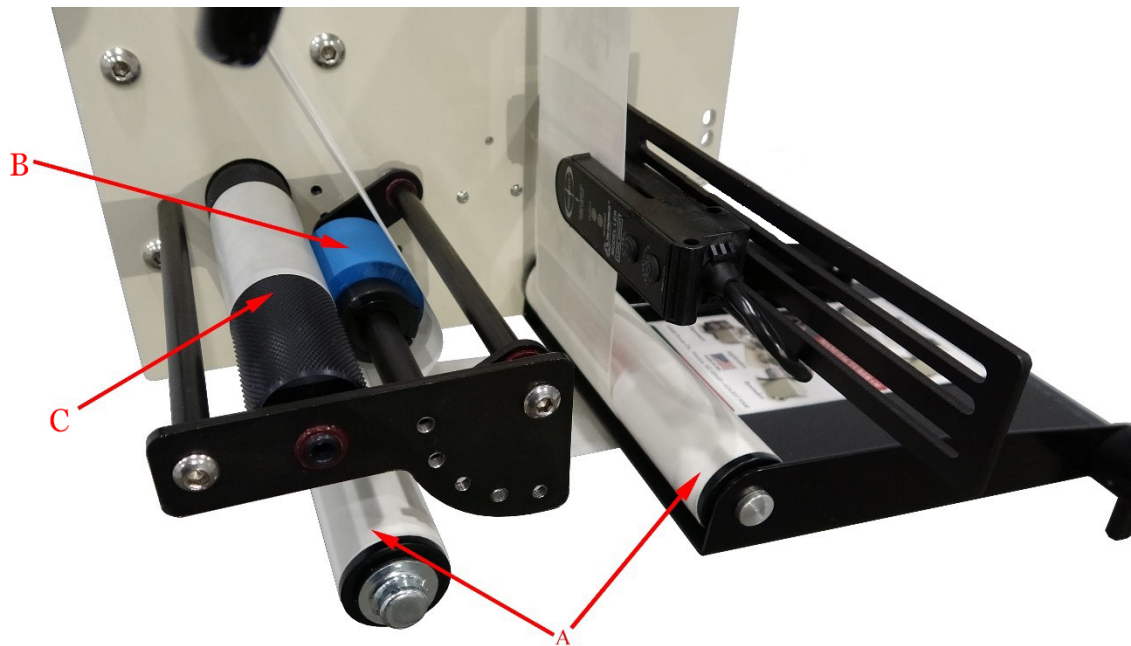
The pulley tension is set at the factory. It is set with moderate tension on the belt.



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.

### **Cleaning the TAL-3100W:**

- A. **Idler Rollers:** The rollers should be cleaned and checked for wear every 500 hours of operation. The rollers can be cleaned with a mild detergent or isopropyl alcohol.
- B. **Pinch Roller:** The pinch roller should be inspected for unwanted debris every time the system is re-threaded. Isopropyl alcohol should be used to remove adhesive build up.  
**Note: never use a knife or any other sharp object to remove labels or adhesive, damage to roller will occur.**
- C. **Drive Shaft:** The Drive Shaft should be inspected for unwanted debris every time the system is re-threaded. Isopropyl alcohol should be used to remove adhesive build up.

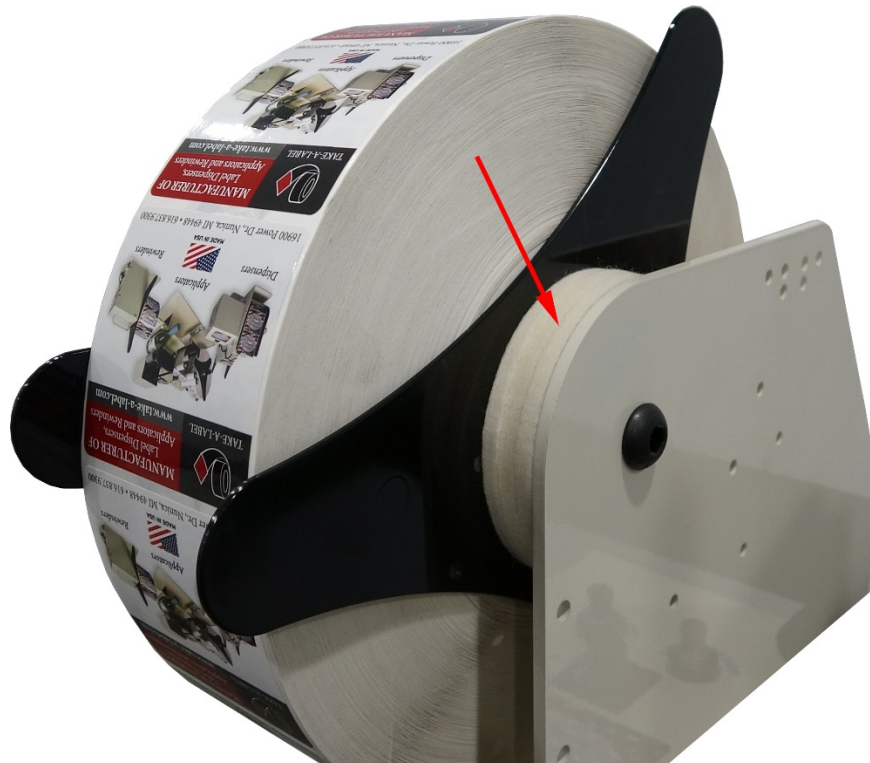


## ***Cleaning the TAL-3100W Continued:***

**Peel Plate:** The peel edge should be inspected for wear every 500 hours of operation and for adhesive buildup every time the system is rethreaded. Also check for adhesive on the brush.



**Unwind Felt Washers:** This braking surface should be periodically checked to ensure that the felt disks are clean and dry. If a disk has excessive dirt or oil, replace with part #72618.

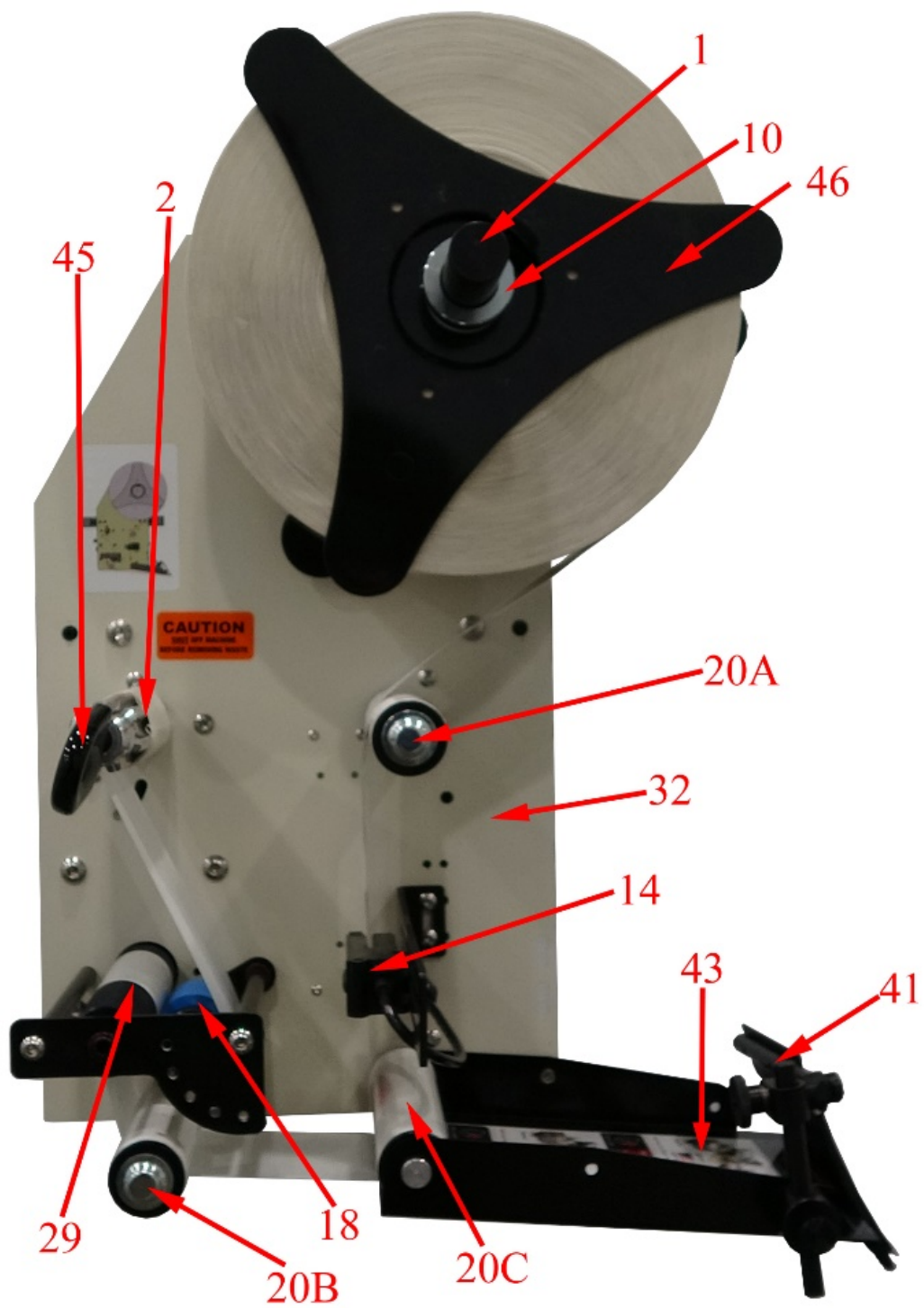




## *Recommended Spare Parts List*

| Qty. | Description               | Part # |
|------|---------------------------|--------|
| 1    | Pinch Roller              | 31002  |
| 1    | Waist wind Clip           | 45131  |
| 2    | Unwind Disc               | 45136  |
| 1    | Motor                     | 30031  |
| 1    | Photo Cell Label Sensor   | 30106  |
| 1    | Drive “V” Belt            | 31267  |
| 1    | Circuit Board             | 31343  |
| 1    | Unwind Felt Washer        | 72618  |
| 1    | Main Fuse                 | 45157  |
| 1    | Peel Edge Cover           | 31375  |
| 2    | Left Hand Torsion Spring  | 21027  |
| 2    | Right Hand Torsion Spring | 21028  |

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.

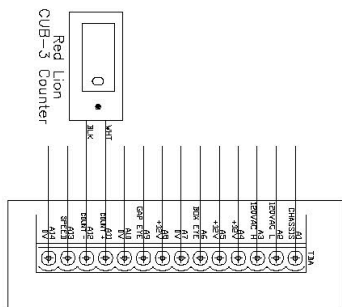


# *Parts List*

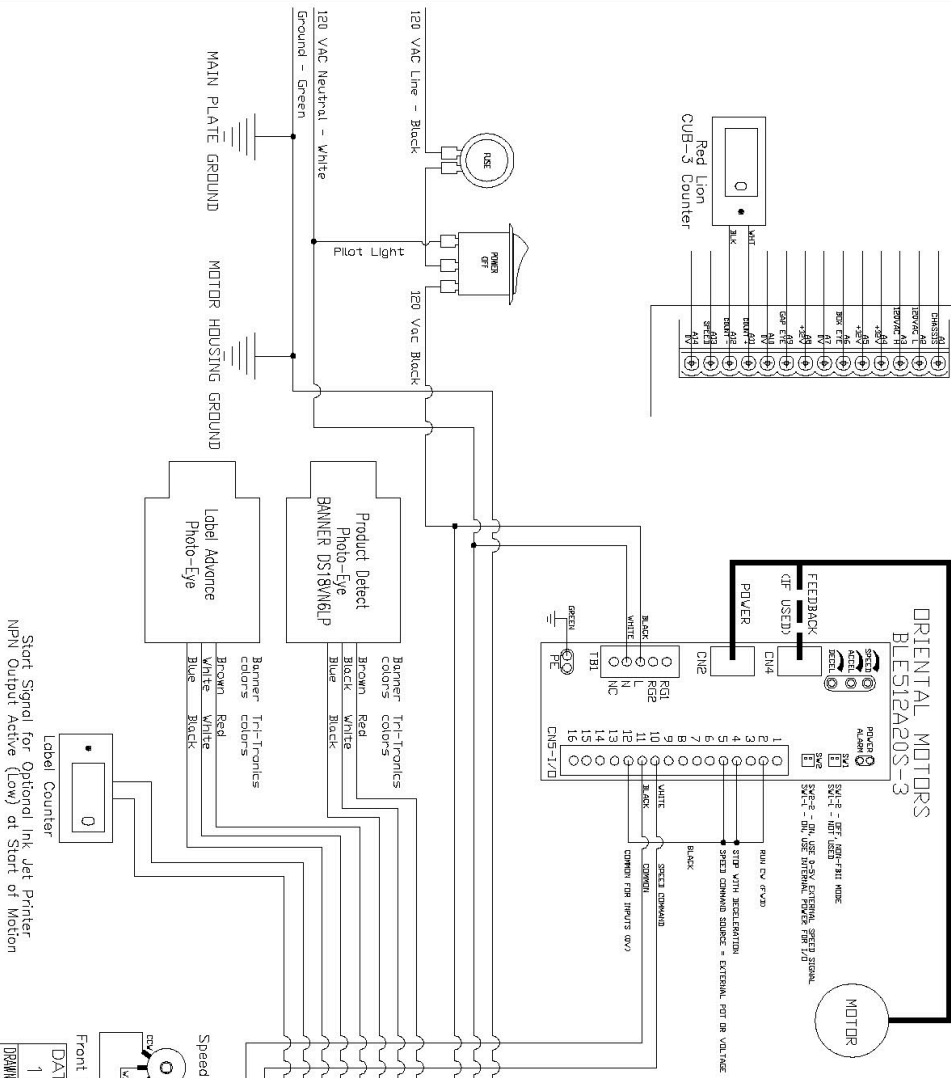
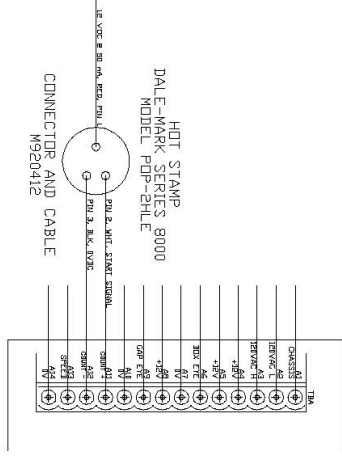
| Part # | Description                  | #  |
|--------|------------------------------|----|
| 11008  | Unwind Shaft                 | 1  |
| 11016  | Waste Wind Shaft             | 2  |
| 21004  | Outboard Support Plate       | 3  |
| 21010  | Pinch Roller shaft 5" web    | 4  |
| 21012  | 3" Drive Shaft               | 5  |
| 21027  | Left Torsion Spring          | 6  |
| 21028  | Right Torsion Spring         | 7  |
| 25112  | Unwind Washer                | 8  |
| 25113  | Unwind Spring                | 9  |
| 26001  | Unwind Collar                | 10 |
| 26002  | Unwind Hub                   | 11 |
| 30031  | Motor and Driver             | 12 |
| 30074  | Shaft Collar                 | 13 |
| 30106  | Tri-Tronics Photo Eye        | 14 |
| 30208  | Product Photo Eye            | 15 |
| 30652  | Set Screw                    | 16 |
| 30653  | 1/2-13 BHSCS                 | 17 |
| 31002  | Pinch Roller                 | 18 |
| 31003  | Outboard Support Shaft       | 19 |
| 31004  | Idler Roller Shaft (A, B, C) | 20 |
| 31009  | Pinch Roller Side Plate      | 21 |
| 31015  | Plastic Bearing              | 22 |
| 31017  | Bushing Long                 | 23 |
| 31029  | Bushing Short                | 24 |
| 31047  | Photo Eye Bracket            | 25 |
| 31140  | Housing                      | 26 |
| 31141  | Housing Cover                | 27 |
| 31060  | Rewind Bracket               | 28 |
| 31102  | Drive Roller                 | 29 |
| 31147  | Name Plate Label             | 30 |

|       |                              |    |
|-------|------------------------------|----|
| 31142 | Motor Spacers                | 31 |
| 31143 | TAL-3100C/W Frame            | 32 |
| 31267 | V Belt                       | 33 |
| 31282 | V Belt Tensioner             | 34 |
| 25212 | Power Cord                   | 35 |
| 31343 | TAL-3100W Control Board      | 36 |
| 31370 | Guide Clamp                  | 37 |
| 31373 | V Belt Pulley                | 38 |
| 31380 | V Belt Tensioner Roller      | 39 |
| 37004 | Brush/Holder                 | 40 |
| 31504 | Brush Holder Rod             | 41 |
| 31505 | Brush Pivot Block            | 42 |
| 31509 | Peel Plate                   | 43 |
| 40007 | On/Off Switch                | 44 |
| 45131 | Waste Wind Clip              | 45 |
| 45136 | Unwind Disc                  | 46 |
| 45155 | Fuse Holder                  | 47 |
| 45157 | Fuse Holder                  | 48 |
| 45161 | Spade Connector              | 49 |
| 45176 | Hex Nut 10-32                | 50 |
| 45183 | 10-32 x 1/2 Screw            | 51 |
| 45205 | Wire Joint                   | 52 |
| 25211 | IEC Outlet                   | 53 |
| 81830 | Shaft Caps                   | 54 |
| 81912 | Small Cord Grip              | 55 |
| 45175 | 10-32 x 3/8 B.H.C S          | 56 |
| 31506 | Pivot Block Rod 4"           | 57 |
| 72618 | Felt Washer                  | 58 |
| 31416 | Label Advance Knob           | 59 |
| 31417 | Label Advance Pot with Wires | 60 |

OPTIONAL CONNECTIONS  
COUNTER CONNECTION



OPTIONAL CONNECTIONS  
HOT STAMP CONNECTION



Front View

DATE: 10/7/19  
DRAWN BY: Lee S  
APPROVED BY: Lee S  
TITLE: 4550 AIRWEST DRIVE S.E. • SUITE A • GRAND RAPIDS, MI 49512

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