TAKE-A-LABEL, Inc.

OPERATIONS MANUAL

MODEL TAL-3100W

WIPE ON

LABELER

TAKE-A-LABEL®
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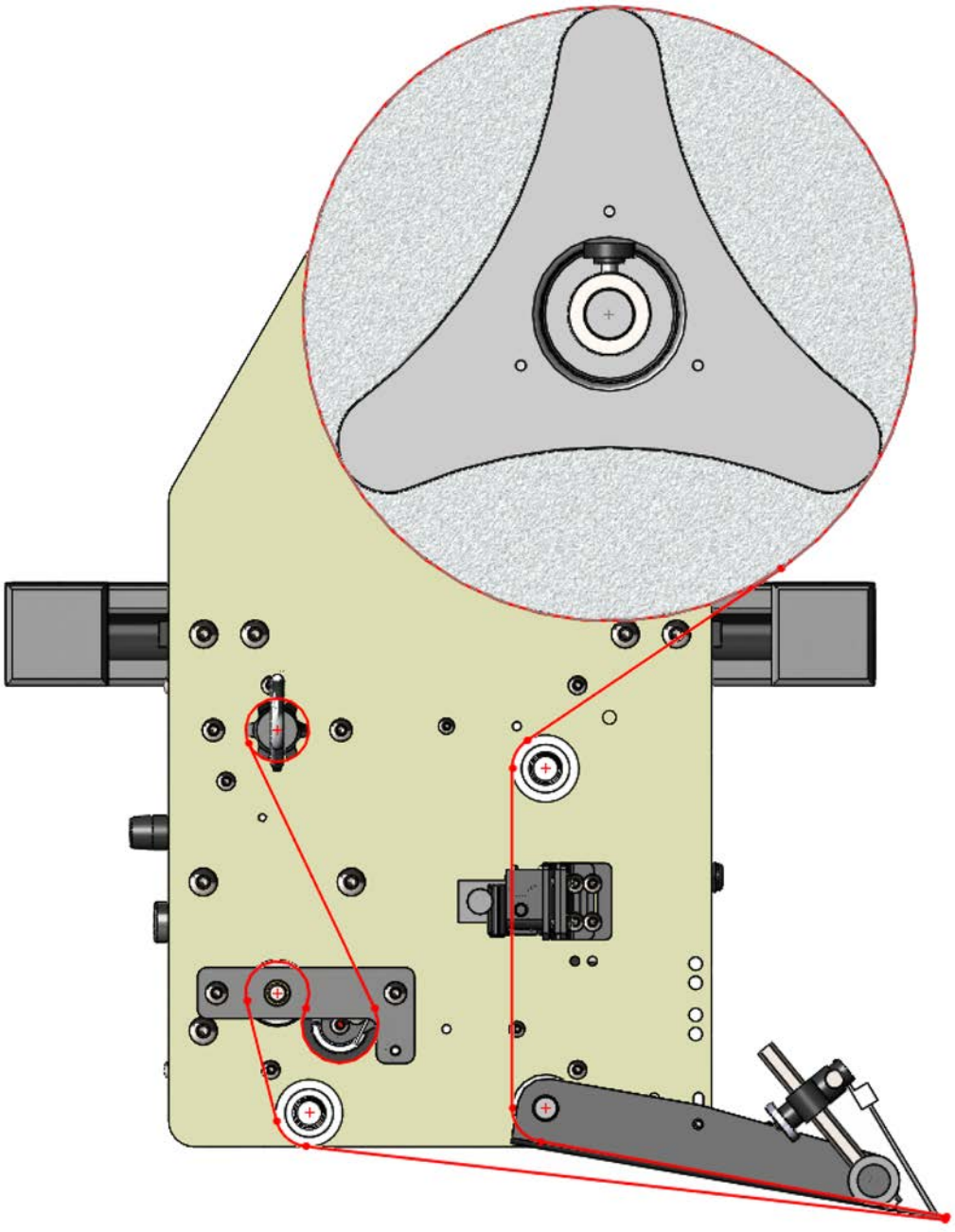
TAKE-A-LABEL, Inc.



3000W Wipe-On Labeler

Introduction

Section #1

TAKE-A-LABEL, Inc.

General

Thank you for purchasing the TAL-3100W wipe-on labeler. The TAL-3100W system is known for its high quality and operating simplicity. With proper maintenance it will provide years of dependable and trouble free service.

Our equipment is manufactured to the strictest standard and is thoroughly tested before being released into the field. However, sometimes a problem may arise that is not covered by the scope of this manual. If a situation as such occurs, further technical support is just a phone call away.

Power Requirements: 110 VAC 15 Amps 60 Hz, Grounded

System Weight: 45 LBS.

Unit Dimensions: 17” L x 13 W x 23” H

Maximum Roll Size: 12" converted on a standard 1” or 3" diameter core.

System Operation

Section #2

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Machine Start Up

1. Unpack your TAL-3100W wipe-on labeling system.
2. Inspect the labeling system for damage. If you see any damage, please notify the shipping company and TAKE-A-LABEL, Inc. before setting the labeler up and using it.
3. Mount the labeler on an appropriate mounting stand. Be sure to mount the labeler using only the mounting arms.
4. Plug the labeler 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.
5. Install a roll of labels and thread the labeler *(See page 2.2).* WARNING: To avoid inadvertent operation always thread the labeler with the power OFF.
6. Set up the angle and position of the peel plate to your object to be labeled *(See page 2.3)*
7. Set up your label position to the peel plate by adjusting the label advance dial *(See page 2.4 & 2.5).*
8. Teach the photo eye. *(See page 2.6).*
9. Set your label speed to match your product speed by adjusting the label speed dial *(See page 2.8).*
10. Always read your manual fully to understand how to operate the 3100W wipe-on label applicator.

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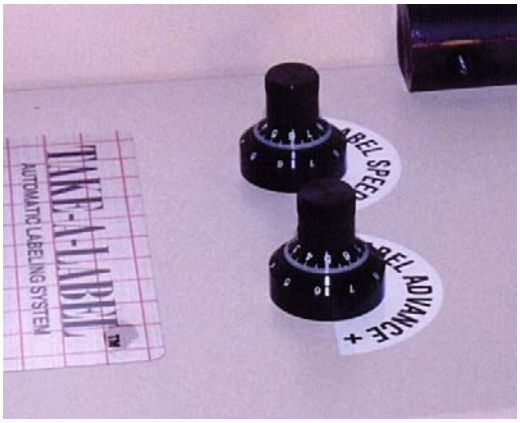
Label Position



Label Advance Position:

Before being dispensed, each label should advance close to the edge of the peel plate, but should not come off the peel plate. Adjust the label advance as follows:

1. Unlock the LABEL ADVANCE +/- dial. The dial is located on top of the labeler's control unit.
2. Dispense a single label.
3. Observe if the dispensed label came all the way off the peel plate, and note the position of the next label still on the peel plate.
4. Turn the LABEL ADVANCE +/- dial in small amounts to adjust the label advance position.
   - If the dispensed label does not come off the label web, turn the dial to the right (towards the + for longer advance distance).
   - If the next label on the peel plate hangs over the peel plate edge, turn the dial to the left (towards the – for shorter advance distance).
   - If the label is not close enough to the peel plate edge, turn the dial to the right (towards the + for longer advance distance).
   - If the dispensed label comes off the label web and the next label is close to the peel plate edge, the advance distance is correct. No adjustment is necessary.
5. Repeat steps 2 through 4 until the label advances to the correct position.
6. Lock the LABEL ADVANCE dial into position.

(Also see page 2.5)

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Photo Eye Teach/Adjustment

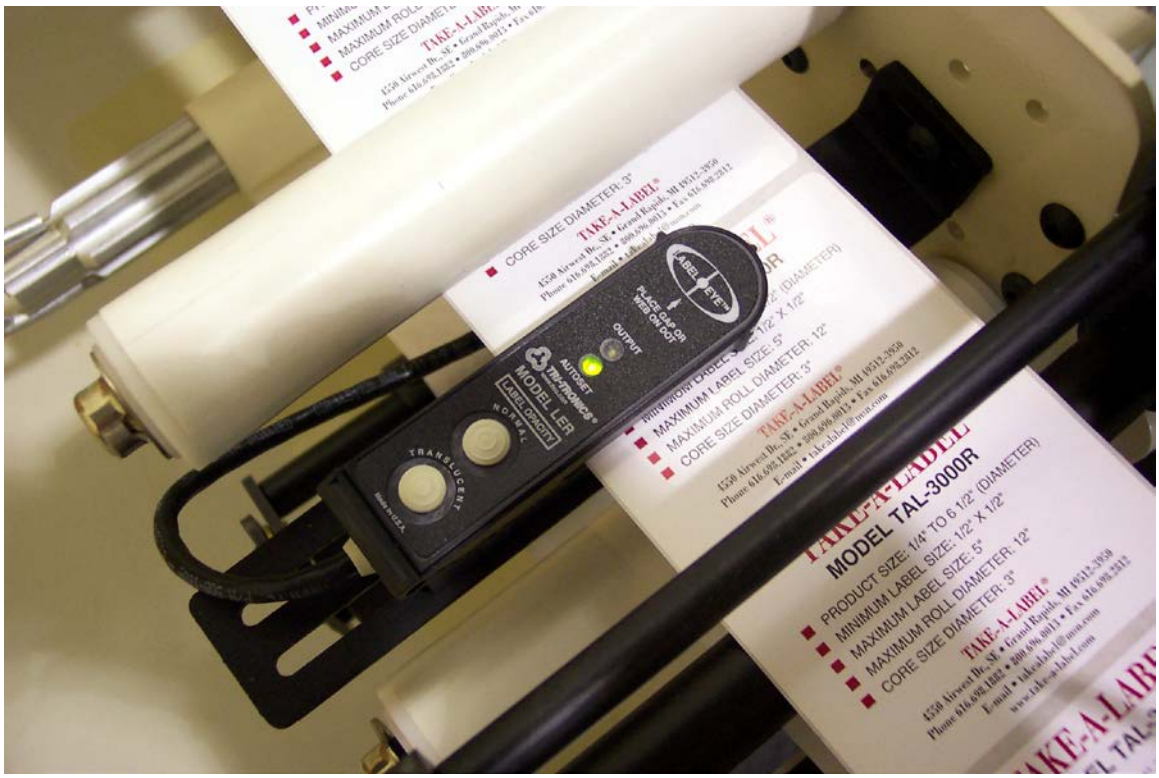

Photo Eye Mode:

1. Insert liner only into the photo eye.

2. Press and hold the "normal" button for three seconds. The red light will shut off, then the green light will begin to flash. When the red light comes on the photo eye has been taught, release the button.

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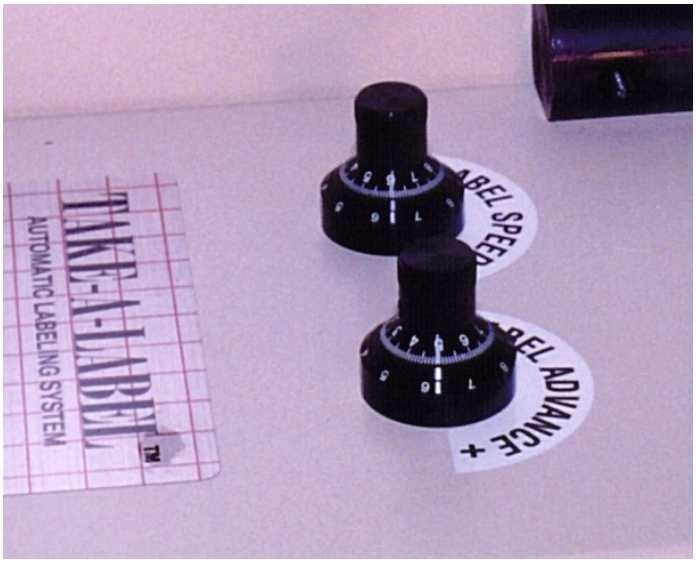
Label Speed



Label Speed:

In order to dispense labels properly, the labeler must operate at the same speed as the product moving under it. Adjust the speed as follows:

Note: Make sure the label position on the peel plate edge is adjusted correctly before attempting to adjust the label speed.

1. Unlock the LABEL SPEED +/- dial. The dial is located on top of the labeler's control unit.
2. Turn on the product conveyor and begin dispensing labels.
3. Use the LABEL SPEED +/- dial to increase or decrease the labeler speed until the label is applied smoothly.
   - Increase the speed if the product is pulled off the conveyor or the product slides back as the label is dispensed, or the backing paper is pulled off the labeler.
   - Decrease the speed if the label wrinkles as it is applied.
4. When the label is applied smoothly, lock the LABEL SPEED +/- dial.

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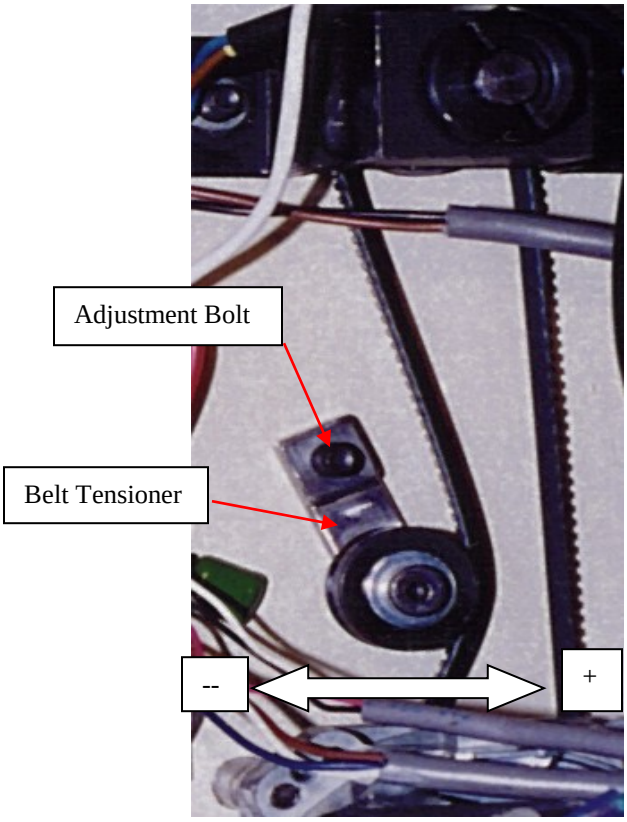
Rewind Belt Tension



Rewind Belt Tension:

The belt tension should be adjusted so that a large roll of waste liner will still rewind and doesn't break the liner or stall the labeler.
To adjust: Find the head of the adjustment bolt on the opposite side of the frame, loosen it. Move the belt tensioner to + if the waste liner is not being rolled up, and to the – if the waste liner is breaking or stalling the labeler.

Maintenance Procedures

Section #3

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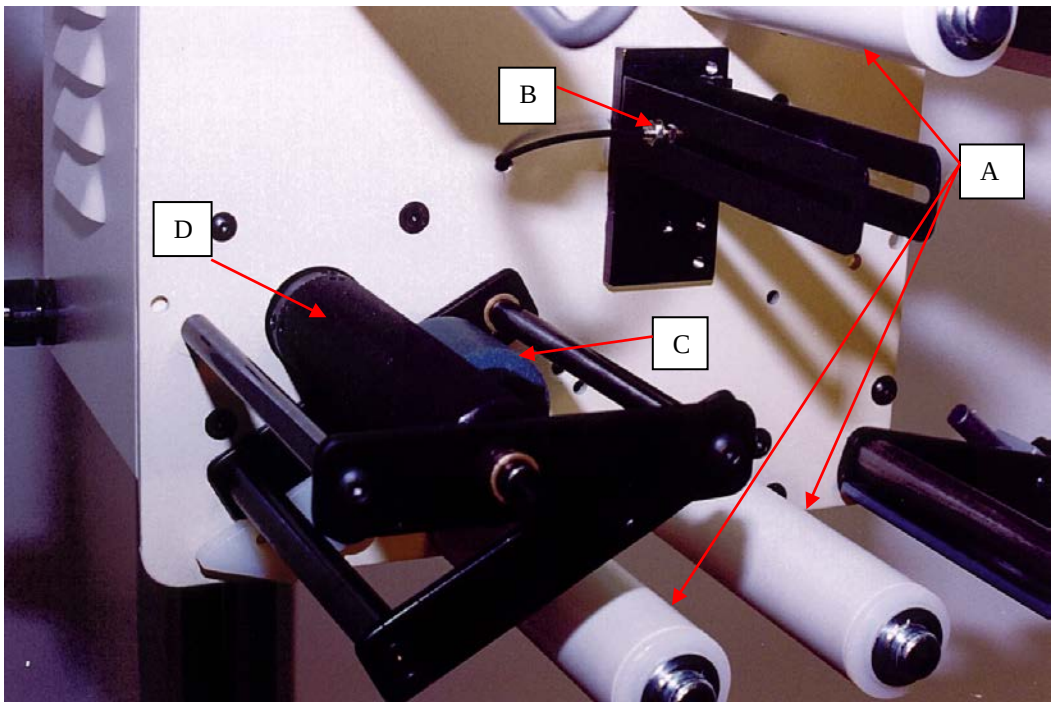
3100W System
General Maintenance



Cleaning Instructions:

A. **Label 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. **Label Sensor:** The photoelectric label sensor should be inspected every 500 hours of operation or if erratic label placement becomes a problem. Air blow off is recommended for cleaning fiber optic ends.

C. **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.***

D. Traction Roller: The traction roller should be inspected for unwanted debris every time the system is re-threaded. Isopropyl alcohol should be used to remove adhesive build up.

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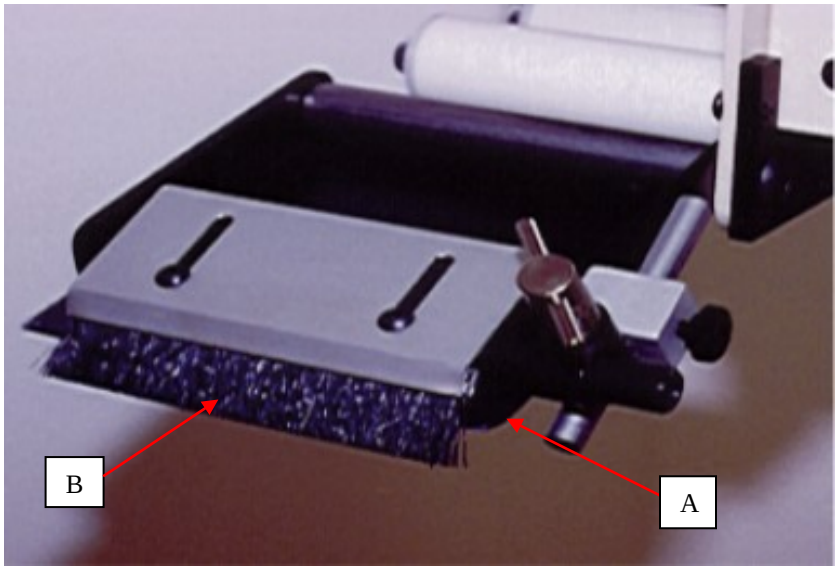
General Maintenance



A. **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.

B. **Unwind Felt Slip Disk:** This braking surface should be periodically checked to ensure that the felt disk is clean and dry. If this disk has excessive dirt or oil, replace with part #75806.

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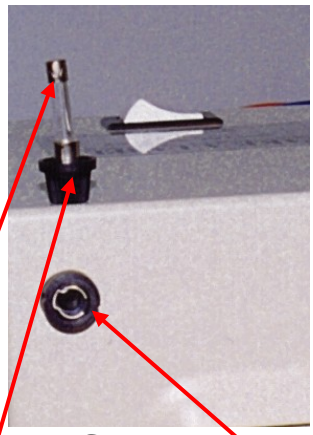
Preventive Maintenance

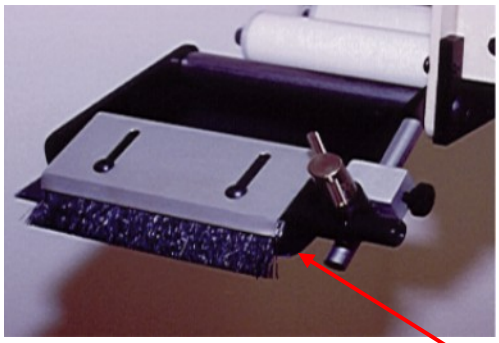
Fuse Installation:

1. **Disconnect power from the labeler by unplugging the labeler.**
2. Remove the fuse cap from the labeler by rotating the fuse cap counterclockwise.



Check Peel Edge Coating:

- Check the peel edge every 500 hours of operation, replace if nessary.



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Recommended
Spare Parts List TAL-3100W

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
2	Drive “V” Belt	31267
1	Circuit Board	31343
1	Unwind Felt Pad	75806
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 of each part to prevent any down time.

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Troubleshooting Guide

PROBLEM	***PROBABLE CAUSE***
• No Power	1. Machine Not Plugged In. 2. No Main Power 3. Fuse Blown *(See page 3.3)*
• Label Will Not Feed	1. Label Sensor Set Incorrectly *(See page 2.3)* 2. No Power *(See Above)* 3. Troubleshoot Motor 4. Pinch Roll Not Closed
• Labels Feed Out Non-Stop	1. Label Sensor Sensitivity Is Too Low *(See page 23)*
• Erratic Label Feed	1. Label sensor Sensitivity Incorrect *(See Page 2.3)* 2. Pinch Roller Not Locked 3. Worn Or Dirty Traction Roller
• Label Predispense Too Little Too Much	1. Adjust The Label Advance Position *(See page 2.2)*

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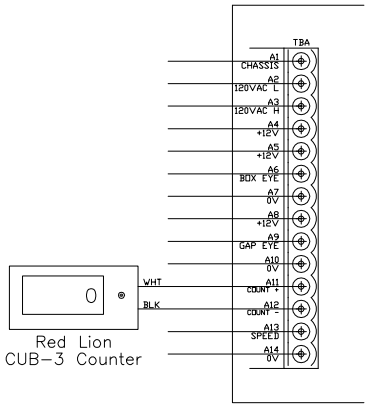
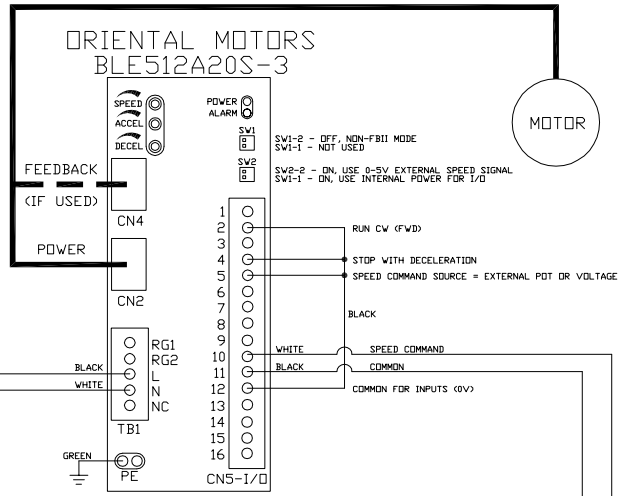
Parts List

Part #	Description
11008	Unwind Shaft
11016	Waste Wind Shaft
21004	Outboard Support Plate
21010	Pinch Roller shaft 5" web
21012	3" Drive Shaft
21027	Left Torsion Spring 9271K612
21028	Right Torsion Spring 9271K677
25112	Unwind Washer
25113	Unwind Spring
25124	#8 Sheet Metal Screws
25125	U Clips
26001	Unwind Collar
26002	Unwind Hub
30031	Motor and Driver
30074	Shaft Collar
30088	7/8" Hole Plug
30106	Tri-Tronics Photo Eye
30112	Large Cord Grip
30208	Product Photo Eye
30652	Set Screw
30653	1/2-13 BHSCS
31002	Pinch Roller
31003	Outboard Support Shaft
31004	Idler Roller Shaft
31006	Idler Roller Shaft
31009	Pinch Roller Side Plate
31015	Plastic Bearing
31017	Bushing Long
31029	Bushing Short
31047	P/E Bracket
31054	Housing Cover
31055	Housing
31060	Rewind Bracket
31102	Drive Roller
31137	Name Plate Label

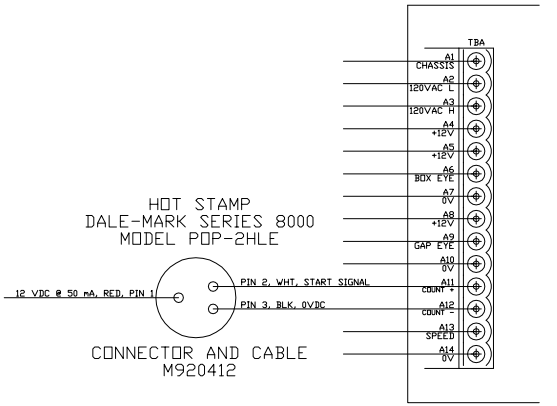
31142	Motor Spacers
31143	TAL-3100C/W Frame
31267	V Belt
31282	V Belt Tensioner
31283	Shoulder Bolt Modified
31343	TAL-3000W Control Board
31370	Guide Clamp
31373	V Belt Pulley
31380	V Belt Tensioner Roller
31501	Brush 4.5"
31504	Brush Holder Rod
31505	Brush Pivot Block
31509	Peel Plate
40007	On/Off Switch
45131	450 Clip
45136	Unwind Disc
45155	Fuse Holder
45157	Fuse Holder
45161	Spade Connector
45176	Hex Nut 10-32
45183	10-32 x 1/2 Screw
45205	Wire Joint
45217	Power Cord
81830	Shaft Caps
81912	Small Cord Grip

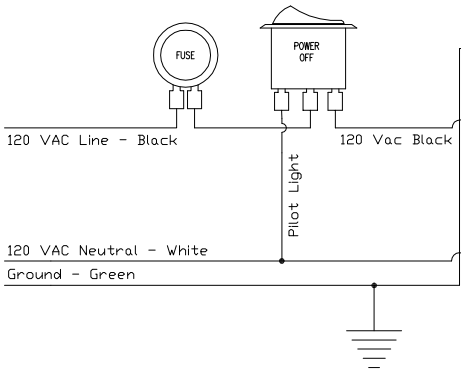
OPTIONAL CONNECTIONS
COUNTER CONNECTION

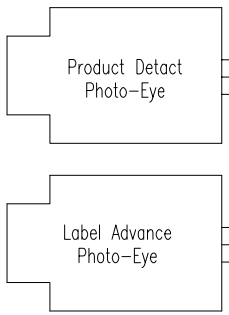




OPTIONAL CONNECTIONS
HOT STAMP CONNECTION

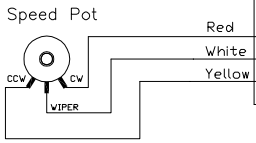


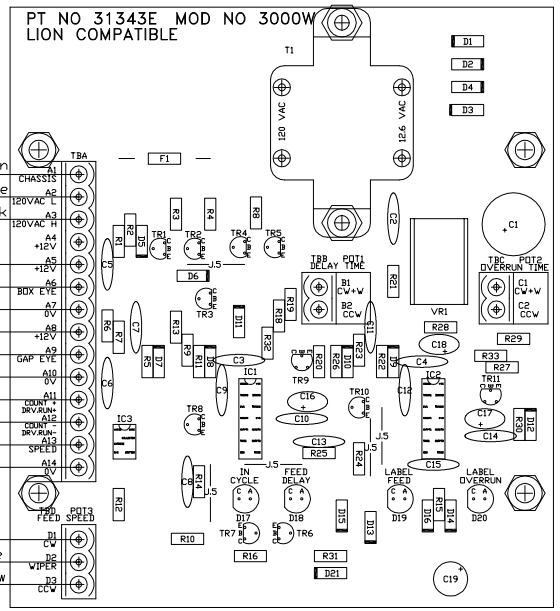




Banner colors	Tri-Tronics colors
Brown	Red
White	White
Blue	Black

Banner colors	Tri-Tronics colors
Brown	Red
White	White
Blue	Black





Front View

DATE: 6/11/13	MSI MACHINE SYSTEMS INC 4550 AIRWEST DRIVE S.E. ∘ SUITE A ∘ GRAND RAPIDS, MI 49512				
DRAWN BY: Bob Schafer					
APPROVED BY:	TITLE: 3000W – 31343E with BLE512A20S-3 drive				
Mat.	SCALE	SIZE	DRAWING FILE NAME	DWG. NO.	REV.
Fin.	NONE	A	31343E with BLE512A20S-3 Connection Diagram.dwg	1 OF 1	E