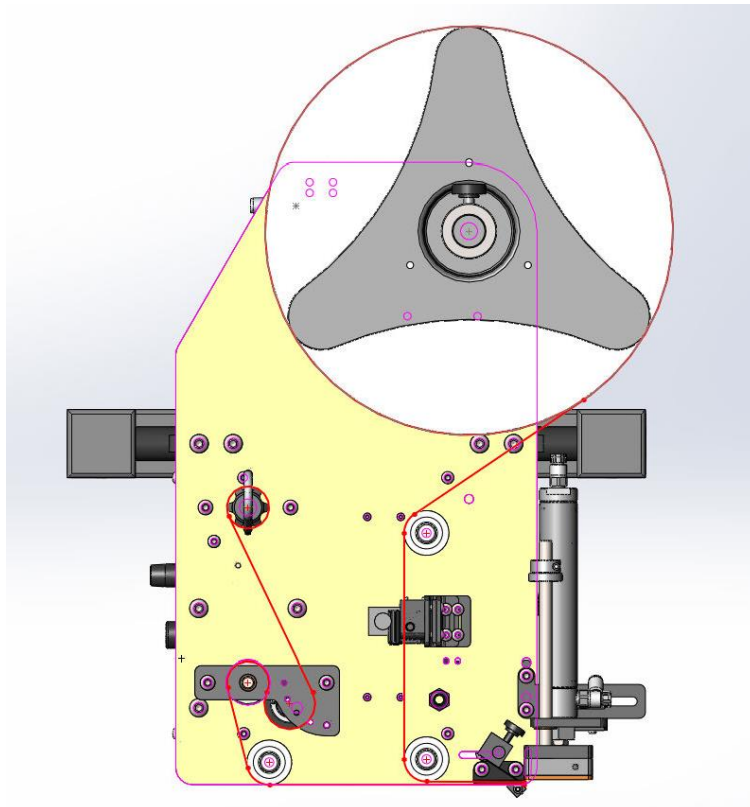


TAKE-A-LABEL, Inc.

Operation Manual

TAL-3100C

Tamp Applicator



TAKE-A-LABEL®

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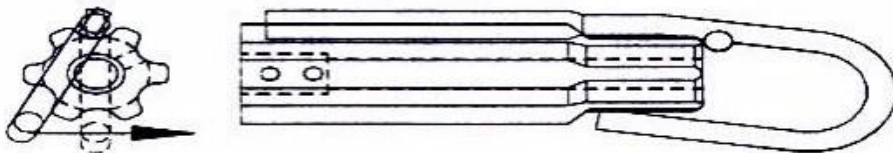
TAL-3100C Tamp Applicator

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 recommended 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:

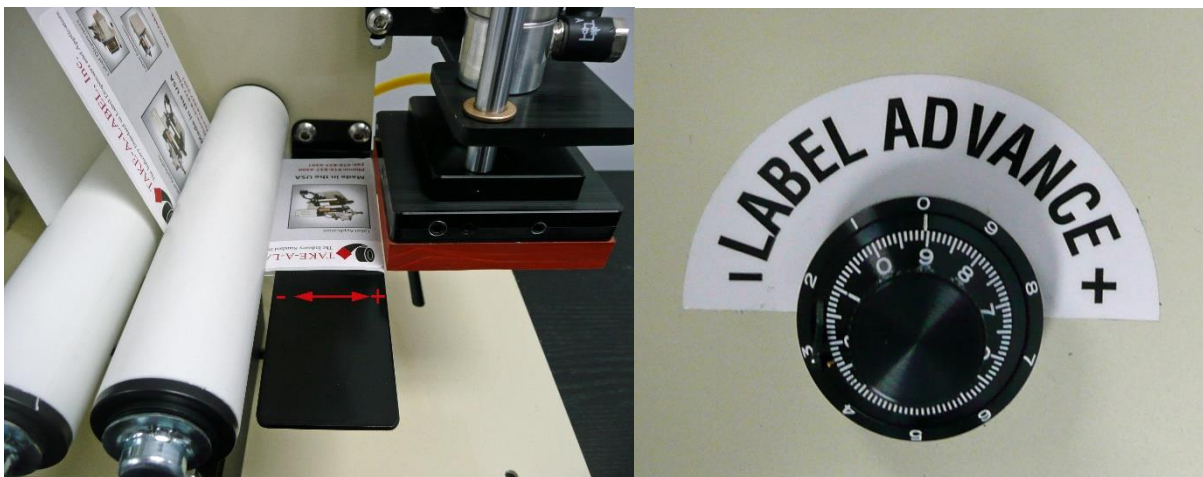
1. Remove outer unwind disc (61) and install new roll of labels and replace disc.
2. Pull label web under the first Idler Roller (25A), and through photo eye (18). Continue pulling the web downward and thread between bottom of roller (25C) and the top of the Peel Plate (1).
3. Pull the web back under the Peel Plate (1), pulling toward the rear of the machine.
4. Keep the liner under the last Idler roller (25B), 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).
 - a. 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.



Label Setup:

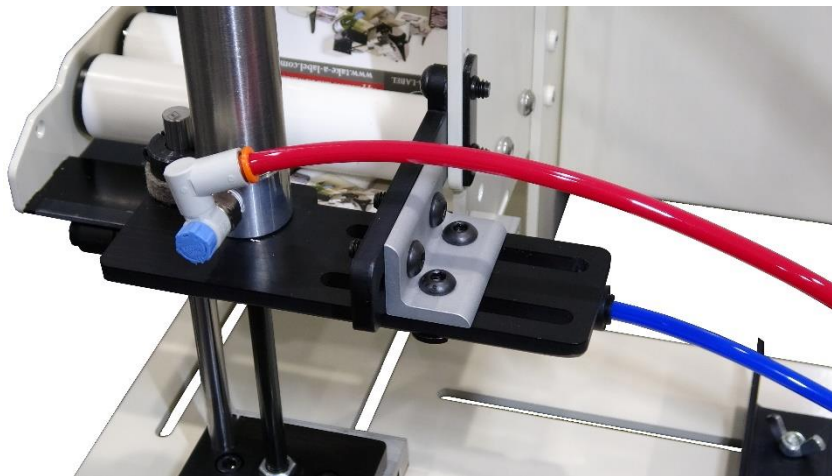
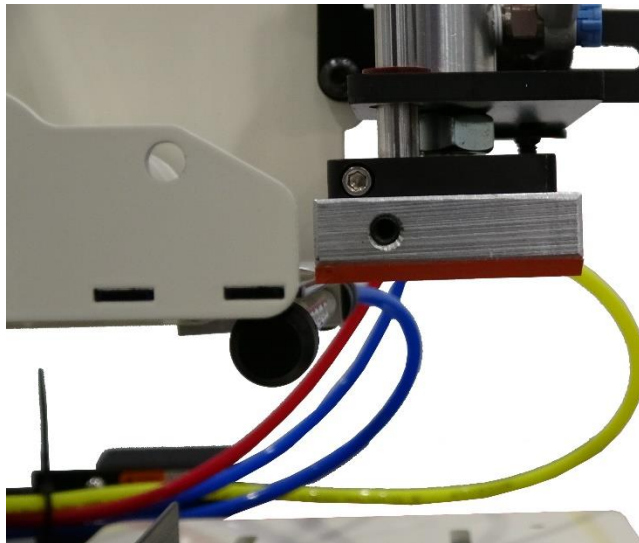
The label advance potentiometer resides on top of the TAL-3100C electrical housing. The purpose is to adjust the stopping position of the label with respect to the peel plate. With the label advance pot turned all the way counterclockwise the photo eye will stop the applicator instantly when it senses 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.



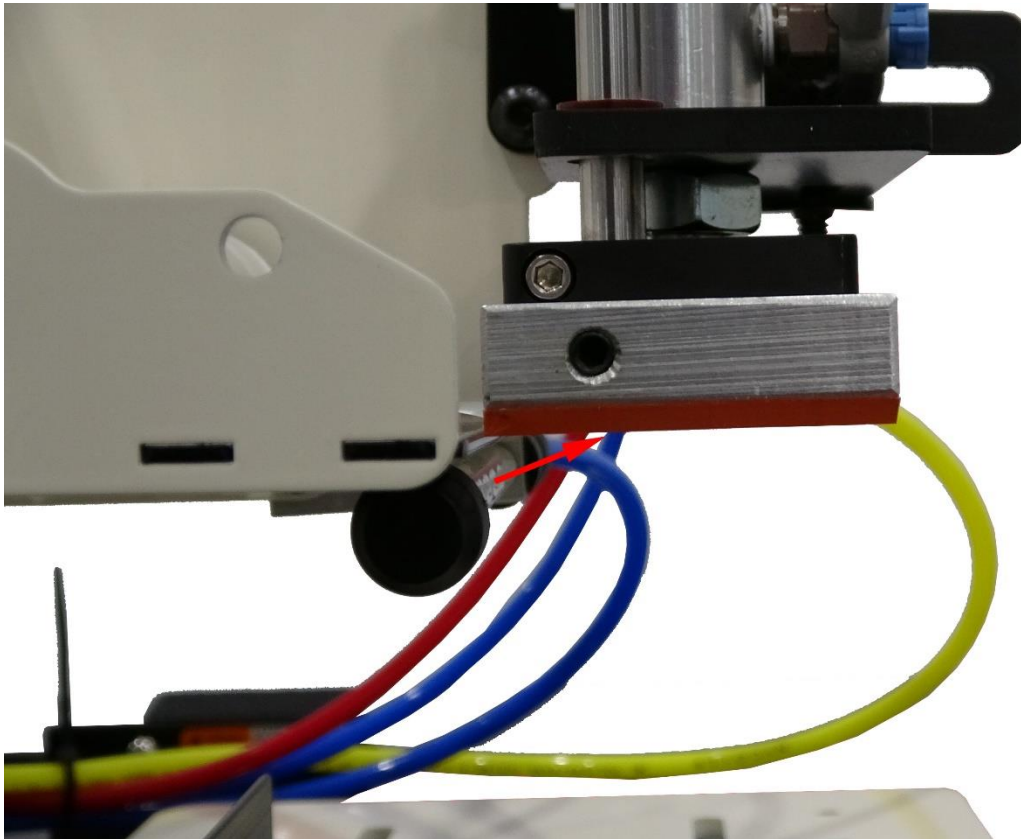
Tamp Head Placement:

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.

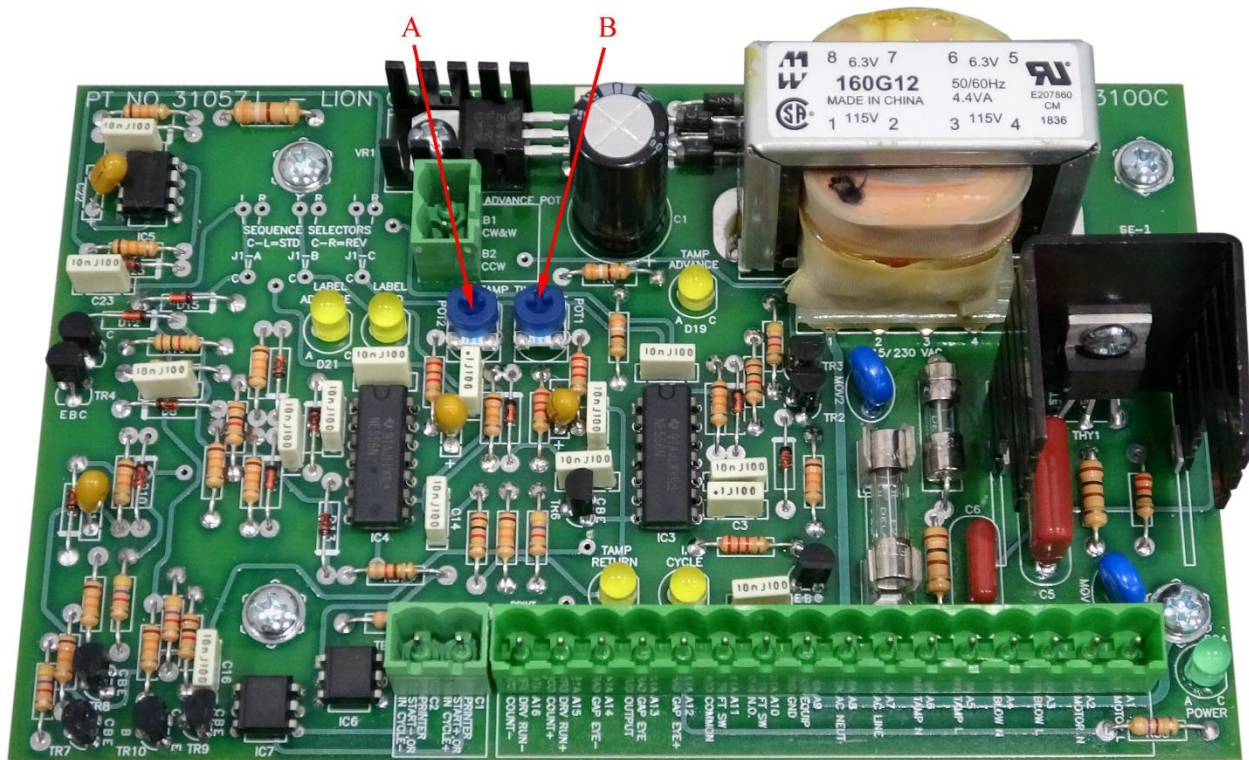


Teaching the photo eye:

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.



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.

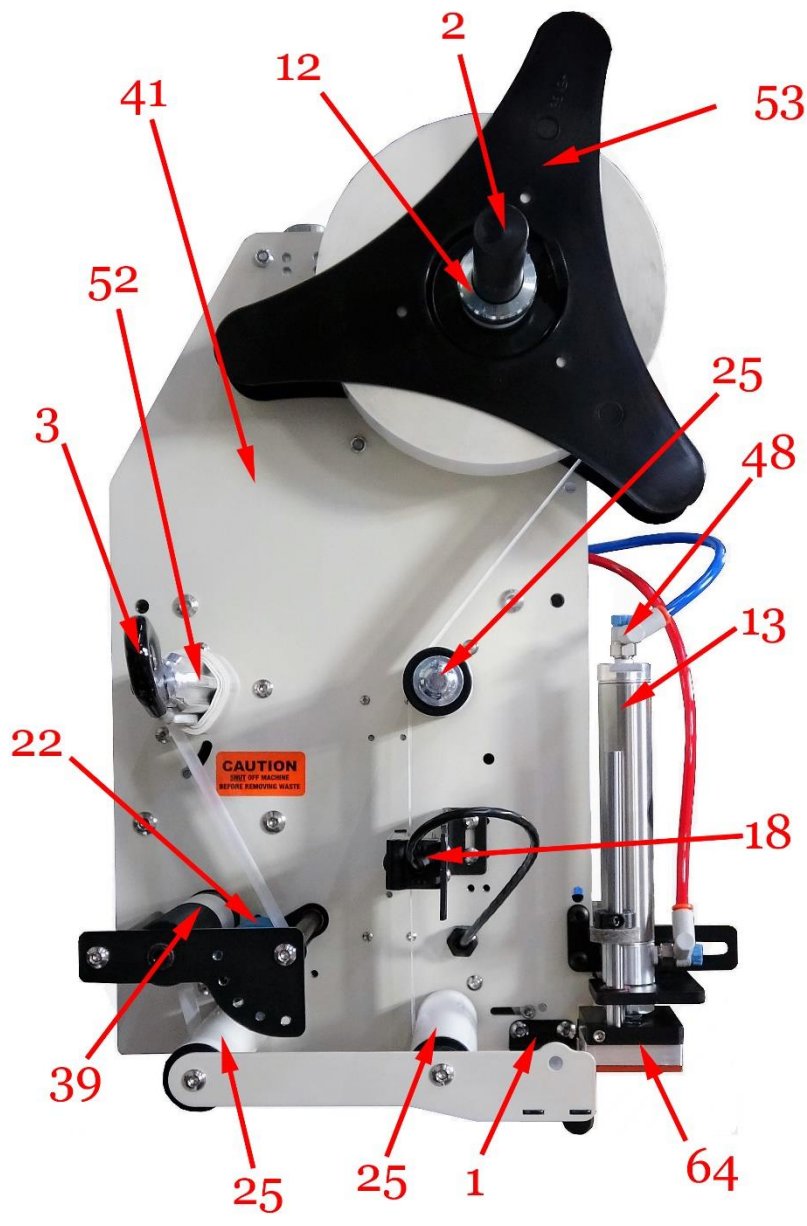
Adjusting Label Advance Delay

- 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.

Recommended Spare Parts
for the TAL-3100C

| 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 | 31057 |
| 1 | Unwind Felt Pad | 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 of each part to prevent any down time.



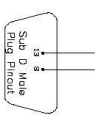
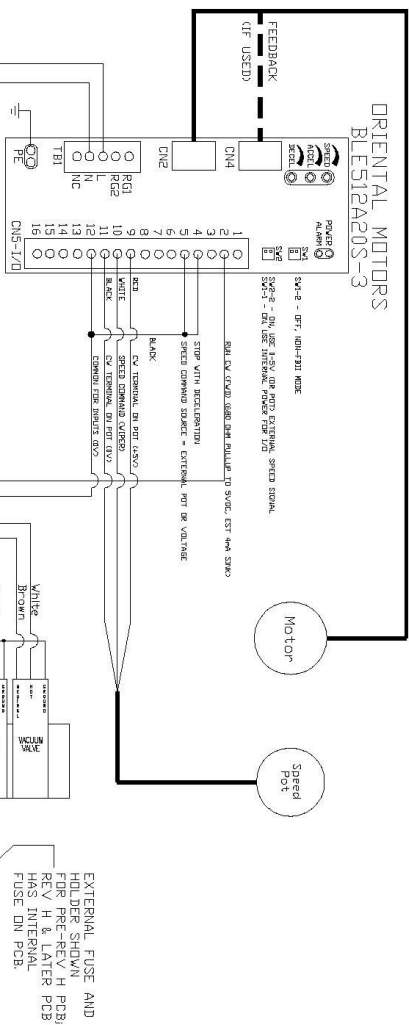
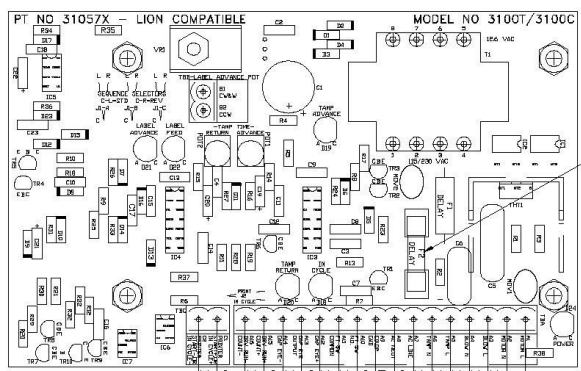
Parts List

| Part # | Description | # |
|---------------|----------------------------|----------|
| 11002 | Peel Plate | 1 |
| 11008 | Unwind Shaft | 2 |
| 45129 | Waste Wind Clip | 3 |
| 21004 | Outboard Support Plate | 4 |
| 21010 | Pinch Roller Shaft | 5 |
| 21012 | 3" Drive Shaft | 6 |
| 21027 | Torsion Spring LH | 7 |
| 21028 | Torsion Spring RH | 8 |
| 25112 | Unwind Washer | 9 |
| 25113 | Unwind Spring | 10 |
| 26001 | Unwind Collar | 11 |
| 26002 | Unwind Hub | 12 |
| 30005 | Pneumatic Cylinder | 13 |
| 30024 | Anti-Rotation Rod | 14 |
| 30029 | Tamp Pad Base Plate | 15 |
| 30031 | Motor; TAL 3100C/DC | 16 |
| 30074 | CTC 114 Shaft Collar 1/2" | 17 |
| 30106 | Tri-Tronics Label Eye | 18 |
| 30124 | Filter Regulator | 19 |
| 30151 | CTC Shaft Collar | 20 |
| 30653 | ½-13 x 3/4" BHCS | 21 |
| 31002 | Pinch Roller | 22 |
| 31003 | Outboard Support Shaft | 23 |
| 31004 | Idler Roller Shaft | 24 |
| 31006 | Idler Roller (A, B, C) | 25 |
| 31009 | Pinch Roller Side Plate | 26 |
| 31014 | Connecting Bracket | 27 |
| 31015 | Plastic Bearing | 28 |
| 31017 | Long Bushing | 29 |
| 31020 | Cylinder Cross Mount Plate | 30 |
| 31021 | Cylinder Mount Plate | 31 |
| 31029 | Rewind Bushing | 32 |
| 31053 | T-Nut/ Bond/8020 | 33 |
| 31140 | TAL-3100C/W Housing | 34 |
| 31141 | TAL-3100C/W Cover | 35 |
| 31057 | Control Board | 36 |
| 31059 | Label Advance | 37 |
| 31060 | Rewind Bracket | 38 |
| 31102 | Driver Roller | 39 |

| | | |
|-------|---------------------------|----|
| 31142 | Motor Spacer | 40 |
| 31143 | TAL-3100C/W Frame | 41 |
| 31267 | V Belt | 42 |
| 31282 | V Belt Tensioner | 43 |
| 31373 | V Belt Pully | 44 |
| 31717 | Air Assist Tube | 45 |
| 31718 | Air Assist Bracket | 46 |
| 31722 | Valve Assembly | 47 |
| 31723 | Flow Control Tube | 48 |
| 31725 | Vacuum Generator | 49 |
| 31047 | Extended Scanner Bracket | 50 |
| 40007 | On/Off Switch | 51 |
| 72613 | Waste Wind Shaft | 52 |
| 45136 | Unwind Disk | 53 |
| 25212 | Power Cord | 54 |
| 72618 | White Felt 4x4 | 55 |
| 81830 | Shaft Caps | 56 |
| 81912 | Small Cord Grip | 57 |
| 31144 | TAL-3100C Threading Label | 58 |
| 31146 | TAL-3100C Name Label | 59 |
| 31824 | Shoulder Bolt 10-32 | 60 |
| 45136 | Unwind Disk | 61 |
| 25102 | 3/8" Black Plug | 62 |
| 30208 | Photo Eye Product Sensor | 63 |
| 30084 | Custom Tamp Pad | 64 |

ORIENTAL MOTORS
BLE512A20S-3

INTERNAL FUSE, REV H & LATER
4A 120 VAC
2A 240 VAC



Optional Label Counter - or
Optional Smart Ink Jet Printer start signal - not both

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'.

| | |
|--------------|--|
| DATE: | 10/7/19 |
| DRAWN BY: | lee S |
| APPROVED BY: | |
| TITLE: | 3000C - PCB 31057H with BLE512A20S-3 Drive |
| SCALE: | NONE |
| SIZE: | A |
| DWG. NO.: | 1 of 1 |
| REV.: | J |

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