

ADJUSTING THE LABEL DETECTOR PHOTOCELL:

The machine has two (2) photo detector cells. The first one (closest to the front) is used to detect and count the labels. The second one is used for “out of paper” condition and is not adjustable.

The label detector photocell has been adjusted at the factory and requires no adjustment for a large variety of labels. However, some specific labels (very transparent or relatively opaque backing paper) might require adjustment of the photocell. The photocell can be adjusted in two ways, one is by using the “gap” indicator, the other one is to use the test cable provided and measure the voltage.

First method: Load a roll of labels on the machine, put the speed to minimum (not moving), remove one label and position the backing paper in front of the first photocell. Press the “START” button, the yellow “Gap” led should not light, if it does, you can adjust the potentiometer on the left side of the machine. The adjustment can be done with a small flat blade screwdriver. Now, put a label in front of the photocell, the yellow “Gap” led should now light-up. Be sure that the labels are tensioned when doing the test.

Second method: Using a voltmeter, you can do a more accurate adjustment of the photocell. Connect the provided test cable to the “TEST” connector on the side of the machine and connect the leads to a DC voltmeter with a range of +/- 20V. Load a roll of labels on the machine, no need to push the “START” button, and position the backing paper in front of the first photocell. Set the voltage with the potentiometer to around 5V, now put a label in front of the photocell; the voltage should now be 10V or more. The reference voltage in the machine is set at 7.5V, below 7.5V the machine sees no label, and above 7.5V the machine sees a label.



MAINTENANCE:

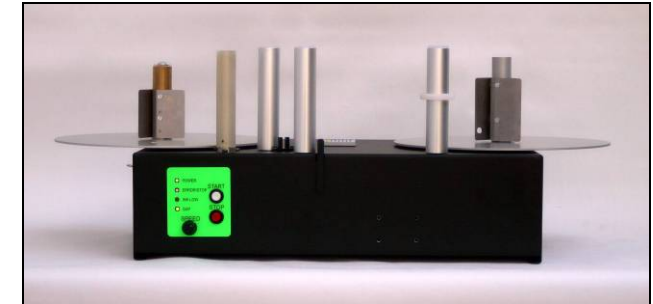
Your PM-300 requires no maintenance.

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LABELMATE PM-300

Reel-to-Reel Printer Mechanism for Ink-Jet Heads



- *Secured DB-9 Print Head Connector*
- *Encoder 2.048 Pulses per Revolution = Linear Resolution of 0.0407-mm.*

Remove all parts from the shipping container and verify contents.

Package Contents

- *User Manual (this document)*
- *PM-300 Printer Mechanism Unit*
- *Power Supply Module*

Retain the Shipping Container and Packaging for Storage and Transport

- ***KEEP MANUAL IN A SAFE PLACE FOR FUTURE REFERENCE***

SPECIFICATIONS:

Max. Label Roll Weight: 6Kg (13.2Lb)
Max. Label Roll Size: 300mm (12") diameter
Speed: Min. 65cm/sec (25-ips) – Max. 150cm/sec (59-ips) for LS and 220cm/sec (87-ips) for HS. Max. speeds specified with a 76mm take-up roll diameter.
Power Supply: 100-230V – 50-60 Hz. AC Input. DC Output: 24V @ 4.17A

SET-UP:

1. Plug the Power Supply Output Cable to the Power Jack on the Rear Panel of the PM-300. Plug the Power Supply into a suitable AC Power Mains Outlet. Place the Power Switch on the rear of the PM-300 to the "ON / 1" position.
2. The Optional Counter (if included) is pre-programmed as a Preset Count-Up Counter. To use the preset function, input the desired number of labels with the Push Buttons on the Counter. If you do not use preset, set the value to "0".
3. When the preset number of labels is reached, the PM-300 will stop. Pressing the "Reset" on the Counter will reset the count to zero so the PM-300 can be started again. A duplicate Reset Switch is located on the left side of the unit.

FRONT CONTROL PANEL:



POWER (GREEN): Indicates power is applied to the unit. The ON-OFF Power Switch is on the rear of the Unit.

ERROR / STOP (RED): Indicates that either the unit is in STOP mode or one of the three Error Conditions has occurred:
1. The unit is Out Of Paper.
2. The counter has reached the Pre-Set Value.
3. There is a Print Head Error condition. e.g.: No more ink (condition valid only if the Print Head supplies this signal).

INK LOW (RED): Indicates that the Print Head has sent an Ink-Low Signal.

GAP (YELLOW): Flashes when Unit is running, indicating proper detection of the Gap between successive Labels.

START BUTTON (WHITE): Start printing, if no Error Condition is present.

STOP BUTTON (RED): Holding down this button will stop the machine when the next gap passes in front of the photocel.

SPEED CONTROL: Varies the speed from zero to maximum.

LEFT SIDE CONTROL PANEL:



SPEED VARIABLE or MAXIMUM: A two (2) position Selector Switch allows the user to select maximum (MAX) speed (not adjustable) or adjustable speed set by the front panel Speed Control Knob. The maximum speed in the "VARIABLE" position with the SPEED potentiometer fully clockwise is about 10% lower than

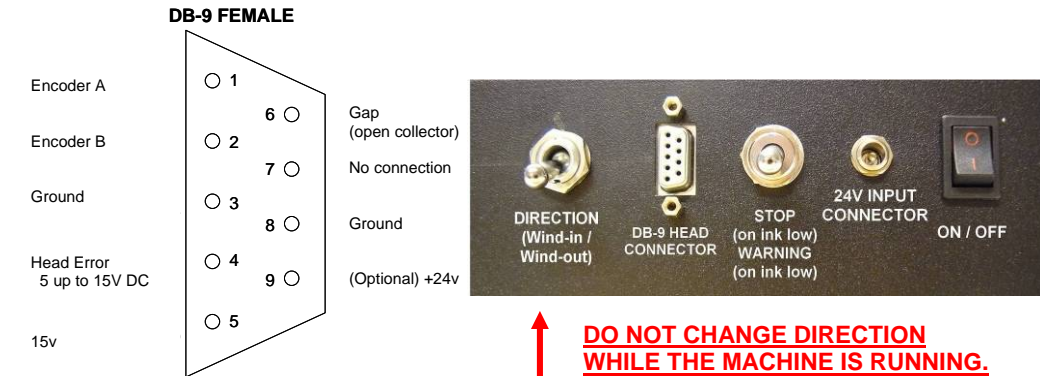
the speed obtained in the "MAX" Speed position of the Speed Switch. When the printing is correct, the unit can be used at MAX. Speed at all times.

COUNTER RESET: Duplicate Counter Reset Switch performs same function as Rest Button on the Counter Module itself.

PHOTOCCELL ADJUST: Potentiometer. See *Adjusting the Label Detector Photocell*.

TEST: Connector. See *Adjusting the Label Detector Photocell*.

CONTROLS & HEAD CONNECTOR ON REAR OF THE UNIT:



DB-9 HEAD CONNECTOR PINOUTS

DO NOT CHANGE DIRECTION WHILE THE MACHINE IS RUNNING. THIS COULD PERMANENTLY DAMAGE THE MACHINE.

WARRANTY:

The PM-300 Reel-to-Reel Printer Mechanism is backed by LABELMATE's famous 3-Year Parts and Labour Limited Warranty.

