INSTALLERS, SERVICE & LINE MECHANICS: PLEASE READ THIS MANUAL AND FAMILIARIZE YOURSELF THOROUGHLY BEFORE ATTEMPTING TO INSTALL OR SERVICE THE DALEMARK EQUIPMENT DESCRIBED HEREIN. FOR FURTHER ASSISTANCE, CONSULT OUR FACTORY STAFF.

INSTRUCTION AND PARTS MANUAL

SERIES 975 HOT ROLLER CODER/DEBOSSER MODEL 975-A/HR-D-MY300

SERIAL NO.

When ordering, always provide the following information:

- MODEL NUMBER
- SERIAL NUMBER
- PART DESCRIPTION & PART NUMBER AS SHOWN IN PARTS LIST

DALEMARK INDUSTRIES, INC. EXCEL PARK 2 575 PROSPECT ST., SUITE 211-212 LAKEWOOD, NEW JERSEY 08701 PHONE: 732-367-3100 FAX: 732-367-7031 E-Mail Address: sales@dalemark.com Website: www.dalemark.com

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SPECIAL INSTRUCTIONS BEFORE OPERATING THE MACHINE

The following instructions must be strictly followed by operators and repair personnel to ensure the normal operation of the machine.

- 1. Printer should be properly grounded to ensure safety during production.
- 2. Before operating, each operator or technician must be familiar with this Operational Manual and acquainted with the functions of each control switch and button. The power voltage of the machine is AC 110V 3A unless otherwise noted on the Coder.
- 3. Media to be printed must separate easily for single feed of each sheet to avoid damage to the machine.
- 4. The Separation Knob Adjustment should be adjusted for exact separation of each product.
- 5. The upper and lower limits of the Print Wheel should be adjusted according to the thickness of the media. The lower limit should not be so low so as to avoid damaging the Printing Wheel or breaking the Print Wheel Shaft.
- 6. The Print Wheel must be installed onto the Shaft avoiding any contact with the Platen Roller. Contact of the Type can be achieved by gradually lowering the Wheel by hand allowing for a space the thickness of the media.
- 7. Power Off the machine before checking if any abnormality is found.

OPERATIONAL PROCEDURES

- 1. Press the "ZERO" button (7) on the Control Panel to reset the counter.
- 2. Set the Control button (6) and Run button (5) at Stop (lamp off) position.
- 3. Turn the Print Position Adjustment Knobs 2A (macro tuning) and 2B (micro tuning) to "0".
- 4. Turn the Heat Switch Knob (4) to "0".
- 5. Set the Adjustment knob (3) for thickness and separation of labels at 4.5.
- 6. Adjust the spacing between solid ink roller and print wheel.
- 7. Adjust the spacing between print wheel and platen roller.
- 8. Stack about 5" high of your product into the space between the left and right Guide Plates (26). They should not be clamped too tightly or the feeding of the products may be affected.
- 9. To start just press down the Control Button (6 lamp on) to print and count.
- 10. Press down Run Button (5) (lamp on) to feed products. To determine if the Thickness & Separation Adjustment Knob (3) is at the correct position press the Run Button to retain the labels in the delivery channel. The adjustment is proper as shown in the following Left Picture. If two products are overlapping as shown in the Right Picture the Adjustment Knob (3) must be rotated clockwise until correct separation is achieved.

Clearly-separated products

Overlapping products





The above adjustments should be performed each time a large quantity is to be printed. After extensive usage the Reverse Wheel or the Feed Belt may begin to wear causing the interval between the products to be increased. Adjustments or replacements must be made as per the specific condition.



- 1. Heating Indicator Light
- 2. Adjustment Knobs for Print Position
- 3. Thickness & Separation Adjustment Knob
- 4. Heater Temperature Control Knob
- 5. Run Button
- 6. Master Control Button
- 7. Zero (Clear button)
- 8. Counter

Description on Control Panel

- 1. Counter (8):
 - A. Set the preset number on the Counter for the quantity to be printed. The machine will stop automatically when the quantity is reached.
 - B. To repeat the printing just press down ZERO Button (7).
 - C. Sometimes the digital value displayed in the Counter will be one piece different from the number programmed when it is automatically stopped. To clear the reading, just press the ZERO Button (7).

2. RUN Button (5): Press the Button (lamp off) to cut off the power and stop the printing.

3. Adjustment Knobs (2): When turning clock-wise the printing position will be moved backwards. Turning Counter-clockwise will cause the printing position to advance.



Diagram 1

- 9. Board Pressure Shield
- 10. Locking Screw for Heat Block Guide Rod
- 11. Front Support Block
- 12. Heat Block Guide Rod
- 13. Adjusting Bolt
- 14. Locking Screw
- 15. Heat Block
- 16. Rear Support Block (RSB)
- 17. Upper/lower Locking Nut in RSB
- 18. Control Hand Wheel in RSB
- 19. Rear Bracket
- 20. Sensor
- 21. Auxiliary Feed Wheel
- 22. Control Screw of Board Pressure Shield
- 23. Silicone Feeding Wheel
- 24. Feeding Belt
- 25. Feeding Roller
- 26. Left/Right Guide Plates

Product Feed Pressure Adjustments

- 1. Product Reverse Wheel (shown in Diagram 1-21): Separates the products and feeds them in sequence.
- 2. Board Pressure Shield (Diagram 1-9): Helps feed the products smoothly.
- 3. Control Screw of Board Pressure Shield (shown as Diagram 1-22): During separation & delivery of product the Control Screw helps regulated pressure for various product parameters (size of product, materials and weight, etc.) for smooth and consistent printing.

These minor adjustments must be conducted when the feed belt is worn and slippery and the feed is not smooth.

PREPARATION FOR PRINTING

1. How to adjust the spacing between the Print Wheel and the Platen Roller:

- A. Loosen the Upper/Lower Locking Knob (Diagram 1-14) between the Rear Support Block (Diagram 1-13) and Rear Bracket (Diagram 1-16) to release the Rear Control Wheel.
- B. Turn the Print Wheel (Diagram 2-1) toward the Platen Roller (Diagram 2-3). Then withdraw the control bolt (Diagram 2-6) on the front support block (Diagram 2-7) which releases the Print Wheel (Diagram 2-2) from the Platen Roller. Then insert media to be printed into the space between Print Wheel and Platen Roller. Lower the Control Bolt gradually and rotate the platen roller for a slight contact between the Type and the Roller.
- C. Then lock the Hexagon Screw as shown in Diagram 2-5.
- D. Loosen the Hand Wheel and Nut on the Rear Bracket as shown in Diagram 1-13 to release the Rear Support Block. Then position Print Wheel Shaft in the hole as shown in Diagram 2-4 and rotate the Print Wheel until there is no resistance. Lock the Upper/Lower Nuts as shown in Diagram 1-14.



Diagram 2

- 1. Type
- 2. Print Wheel
- 3. Platen Roller
- 4. Print Wheel Shaft
- 5. Lock Screw
- 6. Control Screw
- 7. Front Support Block

<u>Note</u>: In many cases, it is not necessary to engage the Rear Bracket for Print Wheel Shaft support when you are printing without any type debossing. The Rear Support only needs to be connected when you intend on debossing your copy into the product with or without ink.

2. How to install/replace Hot Ink Roller:

A. Rotate the Side Plate from the Heating Block Assembly.





- 1. Fixing Sleeve
- 2. Ink Roller
- 3. Heating Block
- 4. Ink Roller Shaft
- B. Detach the Fixing Sleeve from the Ink Roller. Remove the old Ink Roller and replace with a new one. Replace the Fixing Sleeve and rotate the Side Plate back into position to cover the Ink Roller.
- C. Turn the Heater Knob to 10 and preheat for 5 8 minutes. Then reduce the heat to 7 8.

3. How to control the spacing between the Print Wheel and Ink Roller:

- A. Loosen the Fixing Screw in the Eccentric Bronze Bushing in the Ink Roller Shaft as shown in the diagram.
- B. Rotate the Bronze Bushing (4) by hand to make a slight contact between the Type characters and Ink Roller Surface. Then lock the Fixing Screw of the Bronze Bushing.



Diagram 4

- 1. Print Wheel Shaft
- 2. Ink Roller Shaft
- 3. Heating Block
- 4. Eccentric Bronze Bushing
- 5. Control Bolt
- 6. Fixing Screw
- 7. Front Bracket
- 8. Eccentric Bronze Bushing Locking Screw
- 9. Control Guide Rod of Heating Block
- 10. Guide Rod Locking Screw
- 11. Platen Roller

4. How to adjust the Print Wheel Position/Ink Roller Heating Block:

- A. Rotate the Side Cover of the Heating Block.
- B. Remove the Platen Roller and Ink Roller.
- C. Loosen the two Fixing Screws of the Control Guide Rod as shown in Diagram 4-10 and *t*hen move the Heating Block to the set position.
- D. Lock the Guide Rod Screw and re-install the Platen Roller and Ink Roller. Reposition the Heating Block Side Cover.

Installation to Product Collection Tray

1. Position the bracket for the holes of the Left & Right Baffles.



2. Then insert the L & R Baffles along with the Support Rods into the Left & Right Plates on the Brackets where the Shaft Circlips lock onto the grooves in the rod.



3. Adjust the L & R Baffles per product size and tighten the screws.



4. Position the Front Baffle as needed.

General Problems, Causes and Troubleshooting

Problem	Cause	Troubleshooting
I. No heat	1. One or two Electro- Thermal Tubes in Heater Block are damaged	1. Replace Tube(s)
	2. Temperature Controller in Heat Block damaged 3. Control Board is	2. Replace Controller Board
	damaged; 4. The fuse on the Control	3. Replace Control Board
	Board has failed 5. Heat Potentiometer has	4. Replace Fuse
	failed	5. Replace the Potentiometer
II. Print Wheel not turning	1. The position of Photocell moved	1. Adjust Photocell
	2. The Spring of Photocell has changed	2. Adjust Spring
	3. The Counter is counting	3. Check or replace the clutch
	but product is skipping	and electromagnet
	4. The Counter is not	4. Check or replace main PC
	counting if product is skipping	Board and Photocell
	5. The Print Wheel has loosened	5. Tighten the Print Wheel Set Screw
III. Drive Motor not functioning	1. The Red Run Button is not lit	1. Press the Red Run Button to illuminate and run
	2. Power plug is loose	 Keep good contact between plug and socket.
	3. Fuse blown	3. Replace the fuse
	4. Counter has reached	4. Press the Clear Counter
	it's preset value	Button and reset the Counter. (Note: if not using this function preset total to 9999)
	5. The Start Capacitor failed	5. Replace the Capacitor
	6. Motor failure	6. Repair or replace the Motor

IV. Product feed	1. Silicone Feed Wheel	1. Rotate the Machine's Hand
not smooth	is too low	Wheel counter-clockwise
	2. Silicone Feed Wheel	2. Replace the Silicone Feed
	is worn	Wheel
	3. Feed Belt is broken or	3. Replace the Feed Belt
	badly worn	
	4. The Spring of the	4. Loosen the Spring Fixing Screw
	Board Pressure Shield is	and adjust Shield
	too tight	
	5. The separation of the	5. Loosen the screws of the Guide
	L & R Guide Plates is to	Plates and adjust them to be
	tight	slightly larger than product width
		and tighten the screws.
	6. Product does not	6. Fan or separate product before
	easily separate	placing in the Guide Plates
V. Multiple feed	1. Silicone Feed Wheel	1. Rotate the Machine's Hand
	Is set to high	Wheel counter-clockwise
	2. The Silicone Feed	2. Replace the Feed wheel
	2 The Spring of the	2 Loocon the Spring Fixing Scrow
	Board Pressure Shield is	and adjust Shield
	to loose	
	4 Product thickness	4 Product thickness cannot be
	may be to thin	smaller than .003" (0.08mm)
	may be to time	
VI. Blockage	1. Silicone Feed Wheel	1. Botate the Machine's Hand
VI. Blockage occurred during	1. Silicone Feed Wheel is so high that the	1. Rotate the Machine's Hand Wheel clockwise until a single
VI. Blockage occurred during paper feeding.	1. Silicone Feed Wheel is so high that the distance between the	1. Rotate the Machine's Hand Wheel clockwise until a single product can be smoothly fed but
VI. Blockage occurred during paper feeding. NOTE:	1. Silicone Feed Wheel is so high that the distance between the Feed Wheel and Feed	1. Rotate the Machine's Hand Wheel clockwise until a single product can be smoothly fed but additional products are rejected
VI. Blockage occurred during paper feeding. <u>NOTE</u> : Immediately	1. Silicone Feed Wheel is so high that the distance between the Feed Wheel and Feed Belt is too great	1. Rotate the Machine's Hand Wheel clockwise until a single product can be smoothly fed but additional products are rejected
VI. Blockage occurred during paper feeding. <u>NOTE</u> : Immediately Shut-Off the	 Silicone Feed Wheel is so high that the distance between the Feed Wheel and Feed Belt is too great Product does not 	 Rotate the Machine's Hand Wheel clockwise until a single product can be smoothly fed but additional products are rejected Fan or separate product before
VI. Blockage occurred during paper feeding. <u>NOTE</u> : Immediately Shut-Off the machine.	 Silicone Feed Wheel is so high that the distance between the Feed Wheel and Feed Belt is too great Product does not easily separate 	 Rotate the Machine's Hand Wheel clockwise until a single product can be smoothly fed but additional products are rejected Fan or separate product before placing in the guide plates
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VI. Blockage occurred during paper feeding. <u>NOTE</u> : Immediately Shut-Off the machine. If it occurred at the Silicone Feed Wheel rotate the Hand Wheel	 Silicone Feed Wheel is so high that the distance between the Feed Wheel and Feed Belt is too great Product does not easily separate The thickness of the material is too thin Surface of the product is curved or uneven 	 Rotate the Machine's Hand Wheel clockwise until a single product can be smoothly fed but additional products are rejected Fan or separate product before placing in the guide plates Product thickness cannot be smaller than .003" (0.08mm). Make sure the products are flat before feeding
VI. Blockage occurred during paper feeding. <u>NOTE</u> : Immediately Shut-Off the machine. If it occurred at the Silicone Feed Wheel rotate the Hand Wheel counter-clockwise	 Silicone Feed Wheel is so high that the distance between the Feed Wheel and Feed Belt is too great Product does not easily separate The thickness of the material is too thin Surface of the product is curved or uneven	 Rotate the Machine's Hand Wheel clockwise until a single product can be smoothly fed but additional products are rejected Fan or separate product before placing in the guide plates Product thickness cannot be smaller than .003" (0.08mm). Make sure the products are flat before feeding Feed the closed end of the
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VI. Blockage occurred during paper feeding. <u>NOTE</u> : Immediately Shut-Off the machine. If it occurred at the Silicone Feed Wheel rotate the Hand Wheel counter-clockwise and increase the distance of Silicone Feed	 Silicone Feed Wheel so high that the distance between the Feed Wheel and Feed Belt is too great 2. Product does not easily separate 3. The thickness of the material is too thin 4. Surface of the product is curved or uneven 5. The opening of the product is feeding first 6. Separation between the Silicone Feed Wheel 	 Rotate the Machine's Hand Wheel clockwise until a single product can be smoothly fed but additional products are rejected Fan or separate product before placing in the guide plates Product thickness cannot be smaller than .003" (0.08mm). Make sure the products are flat before feeding Feed the closed end of the product first Adjust so the distance is larger than the thickness of one product
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Loosition moves Linserted correctly Land lock it with Fixing Sleeve	/e
2 Type not secured on 2 Secure the Type on both ends	ends
the Print Wheel with the Bubber Stoppers	ondo
3 The Lock Screw of the 3 Tighten the Locking Screw	2207
Print Wheel has	7 V V
loosened	
A The Clutch has failed A Bonlace	
5. The distance between 15. The distance should be slight	lightly
5. The distance between 5. The distance should be sight	uct
	uci
VIII: No print 1 Preheat not enough 1 Increase Time	
2 Electro-Thermal Tube 2 Benlace the damaged elemen	ements
and/or Temperature	Cincinto
Control damaged	
3 Ink Boller and Platen 3 Adjust the position of the	
Boller not adjusted Bollers (See page 8)	
correctly	
IX. Print is not 1. Ink Roller failed 1. Replace the Ink Roller	
clear 2. Preheat not enough 2. Increase the time of preheat	neat
and/or the temperature	
of Ink Rroller is too low	
3. Temperature 3. Replace the Controller	
Controller failed	
4. The position of Ink 4. Adjust the position of the Ink	Ink
Roller is to high and the Roller	
type surface does not	
fully contact the Roller	
5. Platen Roller not 5. Adjust the position of the Plate	Platen
adjusted correctly Roller to provide adequate	
pressure	
6. Motor Brushes not 6. Replace	
making contact	
7. Print Wheel inserted 7. Re-insert Print Wheel and set	d set it
improperly with Fixing Sleeve	
8. Print Wheel Shaft 8. Check and replace	
and/or bearing worn	
9. Uneven or worn Type 9. Re-seat or replace Type	
X. Too black and 1. Controller temperature 1. Lower Temperature	
dirty set to high	
2. The position of the link 2. Adjust	
2. The position of the 2. Adjust	
Blaten Beller is to high	
A The lok Pollor A Page the mechine when	on
4. The link holiei 4. have the machine when	
5 The Type surface is 5 Clean the type	
filled with ink	

XI. Product	1. Platen Roller to high	1. Adjust position
damaged during	2. Type is uneven	2. Adjust or replace type
printing	3. Print Wheel	3. Lower temperature or replace
	temperature to high	Controller
XII. Can not print at the edge of materials with	1. Type not installed correctly on the Print Wheel	1. Reposition the Type
very short length	2. Type installed on the wrong side of Print Wheel	2. Reposition the Type
	3. Print Position potentiometer not working	3. Replace Potentiometer

ELECTRICAL DIAGRAM



Parts Identification



- 1. O-Ring Black 3 5/16" diameter x 5mm
- 2. Timing Belt 114XL037
- 3. 0-Ring Black 2 1516" diameter x 5mm
- 4. Timing Belt 156XL037



- 1. Electromagnet Assembly
- 2. Clutch Assembly
- 3. Clutch Transfer Gear
- 4. Print Wheel Shaft Gear
- 5. Photo Coupler Assembly (Photocell)
- 6. O-Ring Black 1 11/16" diameter x 5 mm
- 7. O-Ring Black 1 15/16" diameter x 5mm



HEATING WIRING BOARD



RUN CONTROL WIRING BOARD (MAIN WIRING BOARD)



12V, 24V TRANSFORMER