



Kwik Lok®

883N THERMAL PRINTER MANUAL



M883N 02 19

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GENERAL SAFETY INFORMATION

BE SURE THE FOLLOWING SAFETY INSTRUCTIONS ARE READ, UNDERSTOOD AND BECOME PART OF DAILY PRACTICE WHEN OPERATING OR MAINTAINING THE PRINTER.

1. Do not attempt to operate the printer until you understand its function.
2. Never operate the printer unless all guards are in place.
3. Compressed air is potentially dangerous. All maintenance and adjustments must be performed by competent personnel.
4. Always disconnect the air supply before removing any safety covers or when making adjustments to the printer, unless otherwise directed.
5. Keep all foreign material and fingers away from all moving parts.

SmartDate®, and CoLOS® are registered trademarks of markem-image®.

The Kwik Lok 883N Printer is **CE** certified.

For technical support during regular business hours, call your local Kwik Lok distributor. For 24/7 technical support call Kwik Lok Corporation at 1 800-688-5945 if you are in the continental U.S. For those outside the U.S., please dial + 1-509-248-4770.

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The shape of the closure is protected by trademark registrations in many countries around the world.

SECTION I

Specifications

883N THERMAL PRINTER SPECIFICATIONS

Type	Model Designation			Packages per Minute	Voltage	Printer	Other Closures & Closure-Labels
	Model	Closure	Flow				
883N 883NF*	A	J-NRP	R or L	The 883N(F) responds to the 872XLS up to 110 BPM	100-230 VAC	SmartDate®X60	N/A
883N 883NF*	A	JM-NRP	R or L		100-230 VAC	SmartDate®X60	VW-NRP
883N 883NF*	B	J-NRP	R or L		N/A	Adapter Only	N/A
883N 883NF*	B	JM-NRP	R or L		N/A	Adapter Only	VW-NRP

*"F" denotes field installation.

TYPE	MODEL	SERIAL NO.

See the machine nameplate decal and record the machine information here.

AIR REQUIREMENTS:

The air supply must be clean and dry.

Maximum pressure: 150psi (10 bar).
 Minimum pressure: 75psi (5 bar)
 Peak required flow: 6 scfm @ 75psi (28 liters/minute @ 5 bar).
 Typical average flow at 50 pkgs. / minute: 1.5 scfm (7 liters / minute @ 5 bar)

The printer mounts on Kwik Lok type 872XLS, 872 Encore (Model NF printer only), 872AB (Model NF printer only) automatic closing systems.

Accessories available for the markem-image SmartDate X60:

P37-00007	Beacon - Ribbon Fault - SmartDate X60
P37-00041	Software - CoLOS Enterprise
P37-00042	Software - CoLOS Create Professional
P37-00069	Print Head - SmartDate X60
P37-00070	Ribbon Cassette - Right-hand
P37-00071	Ribbon Cassette - Left-hand
P37-00052	Scanner - Product Select
P37-00072	Kit - Spare Parts - SmartDate X60



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SECTION I

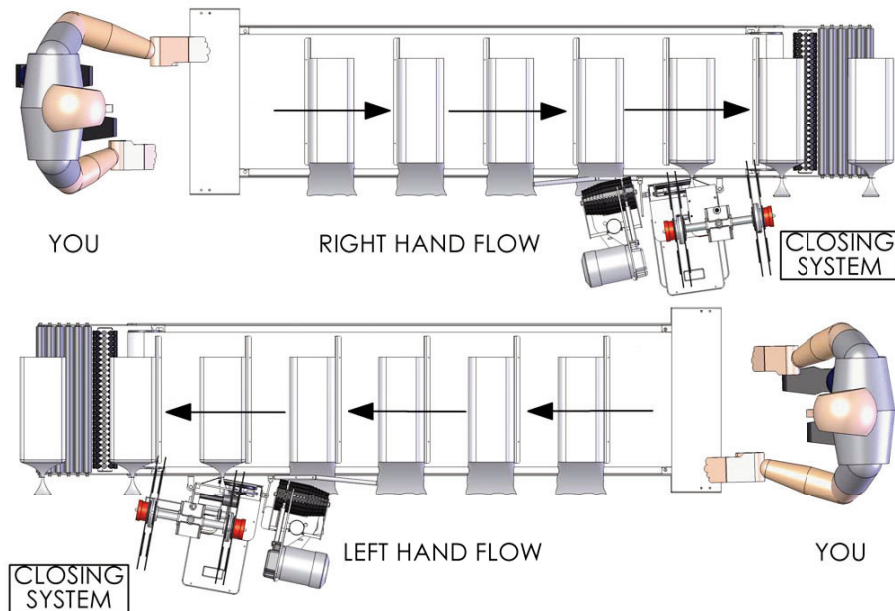
Specifications

FLOW DIAGRAM:

To determine the correct flow direction, visualize your package moving away from you towards the closing machine.

If the open end of the bag is on your right - hand side the flow direction is RIGHT-HAND.

If the open end of the bag is on your left - hand side the flow direction is LEFT-HAND.



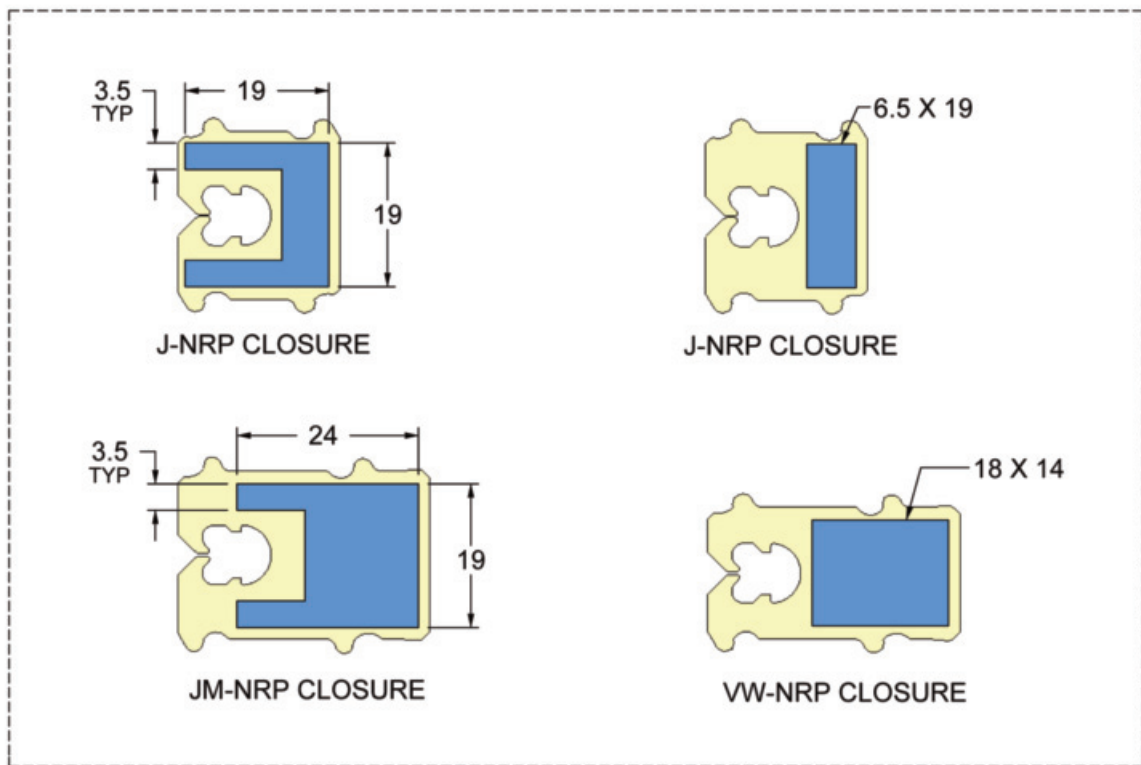
SECTION I

Specifications

RECOMMENDED USABLE PRINT AREAS.

The printable area on the closure depends on the type of closure to be printed on as well as the closure opening size. The printer is capable of printing to within 1/16" (1.6mm) from the edge of the closure or closure opening. It is advisable to adhere to this outline to assure the print image fits entirely on the closure. Use consistent design windows so all printed impressions are within the same printable area.

ALL PRINTED AREAS DESCRIBED ON THIS PAGE ARE DIMENSIONED IN MILLIMETERS.



For best print quality, avoid placement of copy adjacent to and in-line with the closure web.

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SECTION II Installation

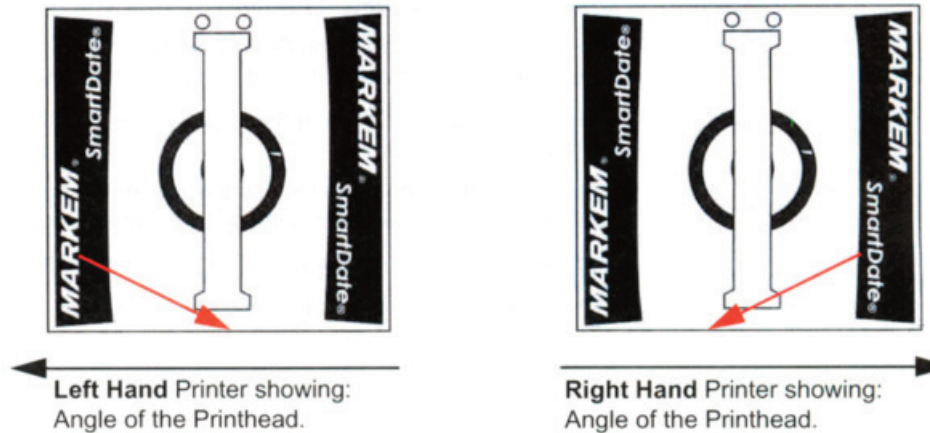


Figure 2.1

FIELD INSTALLATION:

RIGHT OR LEFT HAND PRINTER MODELS:

Figure 2.1

The SmartDate X60 printer can be left or right-hand oriented. The orientation of the printer and the closer must match. A right-hand printer is required for a right-hand closer. A left-hand printer is required for a left-hand closer. The orientation of the printer can be changed, if required, prior to the mounting of the printer. To change the orientation contact markem-image.

A. PREPARE THE 872 FOR PRINTER INSTALLATION:

1. Refer to the Adjustments section of the closer manual and be sure the closer is properly adjusted before attempting to mount the printer.
2. Disconnect the closer electrical cord.
3. Remove the mast and reel assemblies.
4. Remove the top plate or existing printer from the top of the closer frame.

B. MODIFY THE CLOSER ELECTRICAL BOX: Figure 2.2 & 2.3

CAUTION: DISCONNECT THE ELECTRICAL POWER FROM THE CLOSER!

1. Remove the 5/8" hole plug located on the underside of the closer electrical enclosure.
2. Remove the existing solenoid module from the electrical enclosure and note the location of the electrical connections.
3. Carefully remove the existing IC chip from the module. Pull the chip straight up from the module. Use caution to avoid damaging the chip mount.
4. Carefully install the new IC chip in the module. The notch in the chip should be oriented as shown in Figure 2.3. The pins on the chip may need to be bent slightly to align with the chip mount. Press the chip straight into the mount. Use caution to avoid damage to the chip or the chip mount.
5. Install the jumper into position "B" on terminal J68 on the module.

SECTION II
Installation

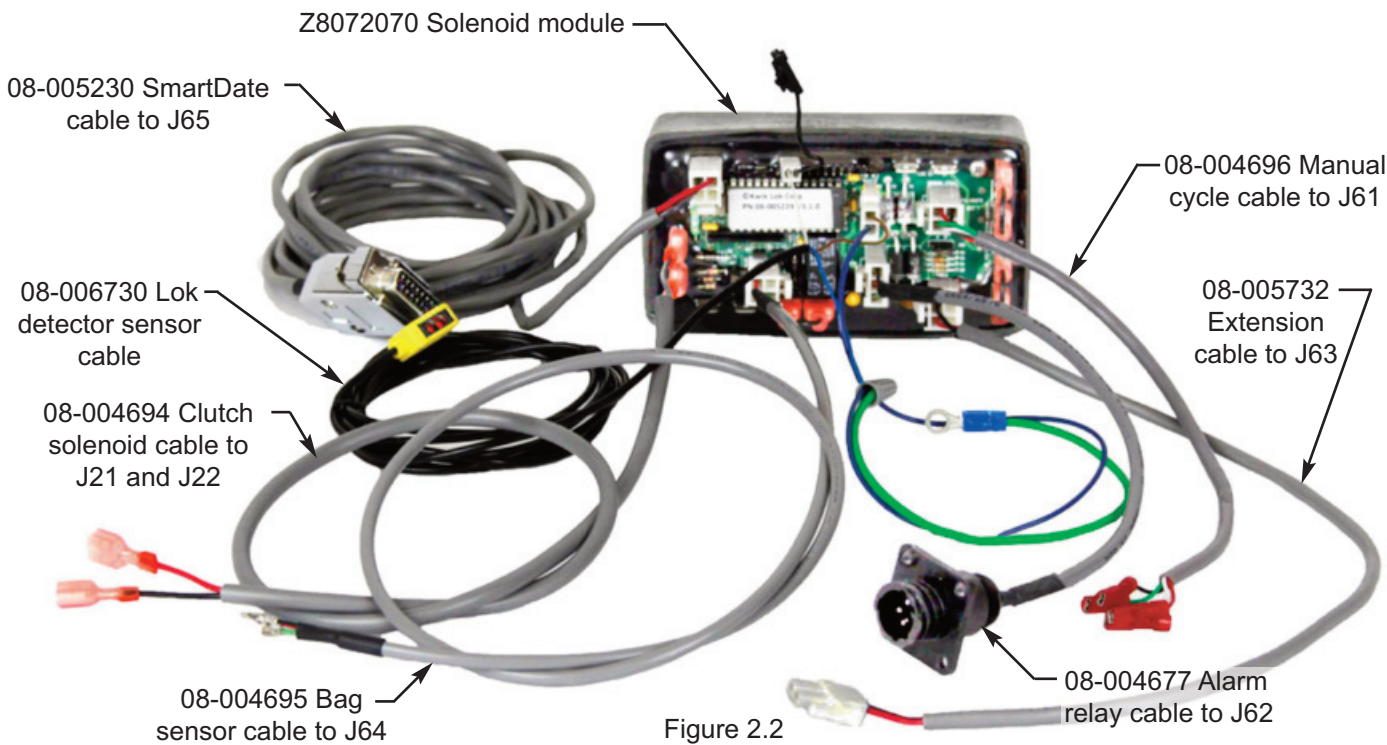


Figure 2.2

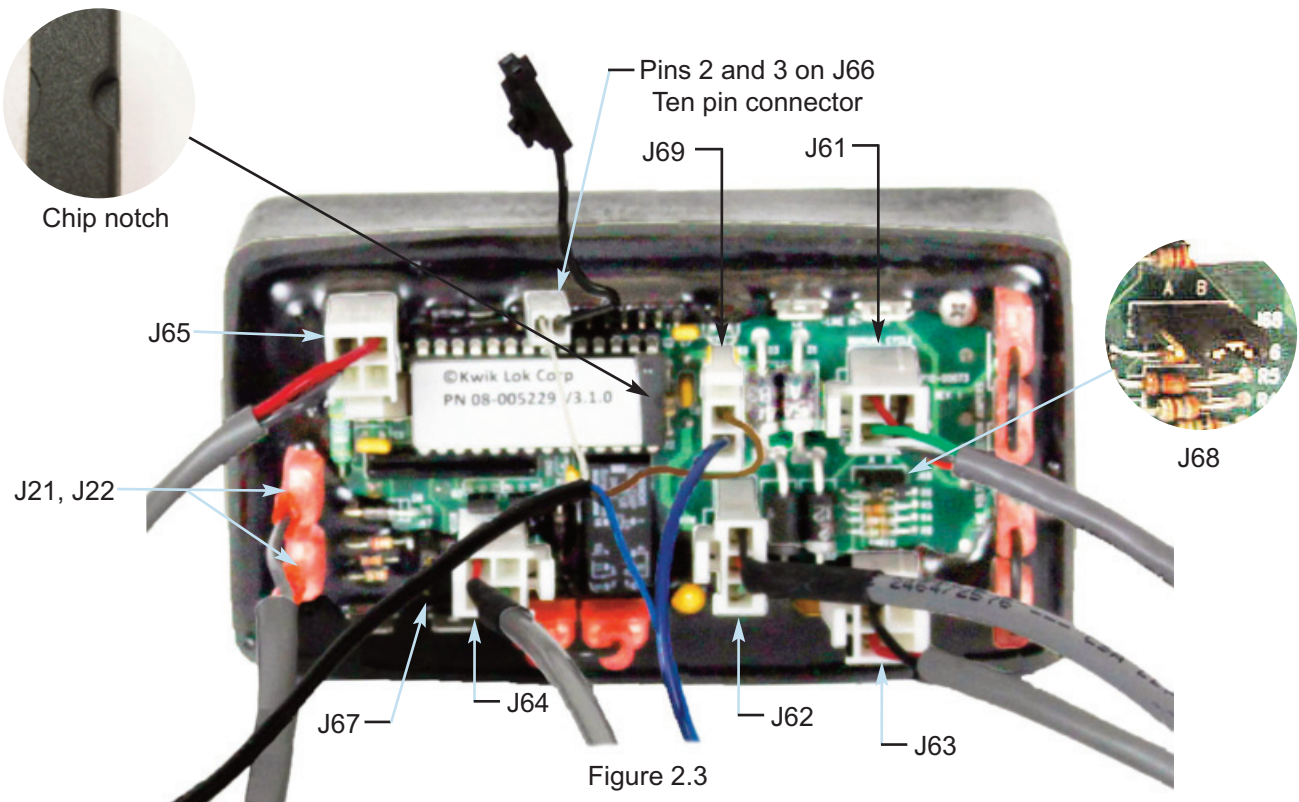


Figure 2.3

SECTION II Installation

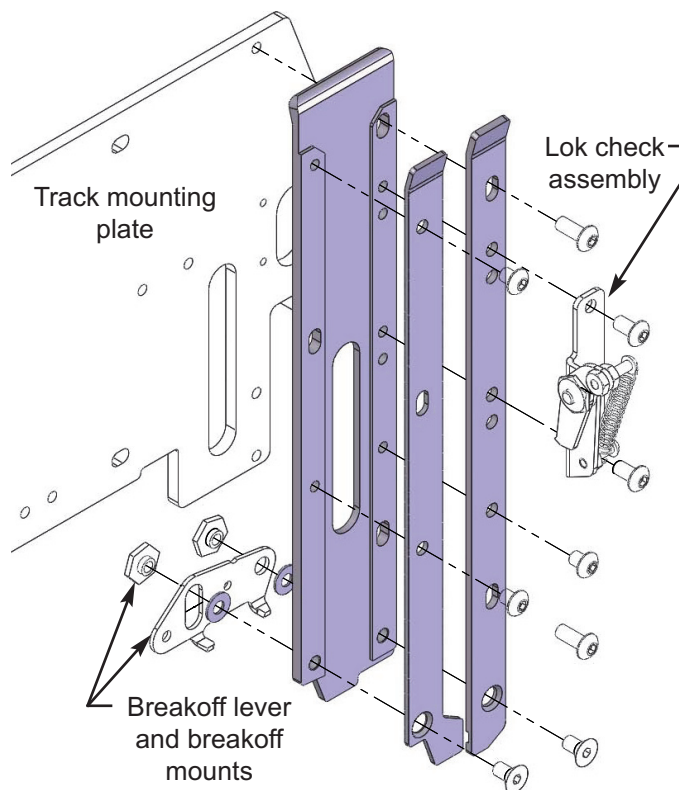


Figure 2.4

6. Install the module in the electrical enclosure and connect the original wiring.
7. Locate the extension cable (08-005732). Route the four pin connector through the hole in the electrical enclosure and connect it to terminal J63 on the module.
8. Locate the SmartDate printer cable (08-005230). Route the four pin connector through the hole in electrical enclosure and connect it to terminal J65 on the module.
9. Locate the lok detector sensor cable (08-006730). Route the electrical connectors through the hole in the electrical enclosure. Attach one connector to terminal J69 on the module and the other connector to pins 1 and 2 on terminal J66. Make certain the white wire in the connector is attached to pin 2 on terminal J66.

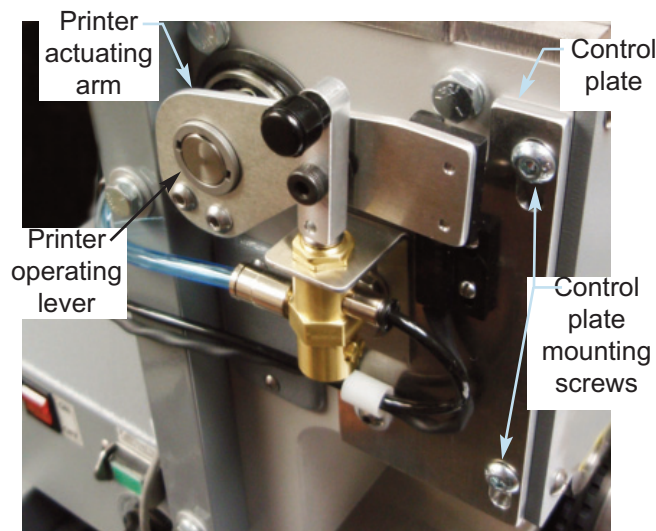


Figure 2.5

10. Position the bushing around the new cables and insert it into the hole of the electrical enclosure.

C. MODIFY THE CLOSER LOK TRACK: Figure 2.4

The 872XLS lok track requires replacement parts.

1. Remove the lok track from the front mounting plate of the closer.
2. Disassemble the track, setting aside the lok check assembly, breakoff lever, the two breakoff mounts and all the fasteners.
3. Reassemble the lok track using the supplied track parts.
4. Mount the lok track to the track mounting plate and adjust the track. Refer to the adjustment section of the 872XLS manual for adjustment instructions.

SECTION II

Installation

D. MOUNT THE PRINTER ACTUATING ARM:

Figure 2.5

1. Be sure the closing machine is in neutral.
2. Remove the two button head screws used to secure the lok track mounting plate bar to the closer frame
3. Mount the control plate (08-005235) to the side of the closer frame. Replace the two 1/2" long button head screws, removed in paragraph 2 above, with the two longer 1/4-20 x 5/8" long button heads provided. Slightly tighten them.
4. Connect the printer actuating arm to the printer operating lever using two 10-32 x 5/16" long button head screws.
5. Loosen and remove the existing set collar or printer operating lever located on the end of the top shaft of the closer. Insert a number 5 woodruff key (provided) in the slot at the end of the shaft and lightly tap it into place.
6. Mount the 08-002695 S printer operating lever to the end of the lever operating shaft.
7. Press the arms at each end of the shaft, compressing the wave washer so as to properly load the bearings.
8. Tighten the set screw in the printer operating lever.

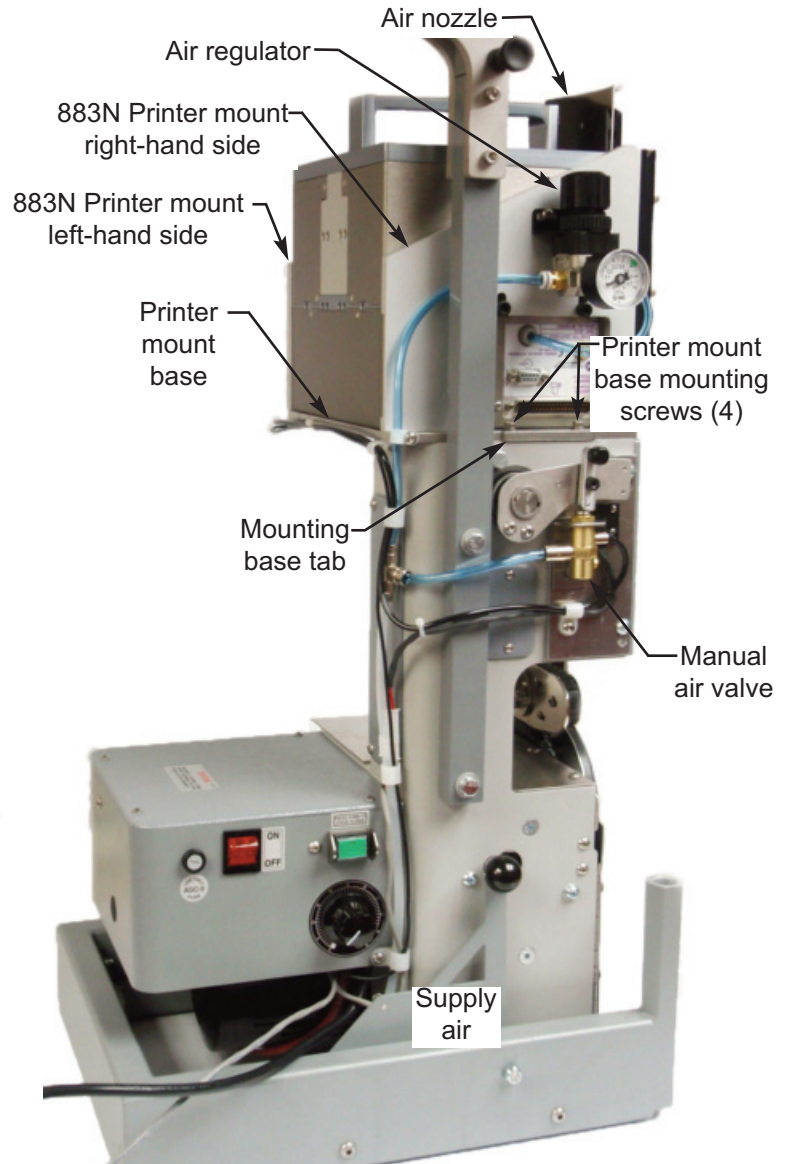


Figure 2.6

E. MOUNT THE PRINTER BRACKETS:

Figure 2.6

1. Position the printer mounting assembly on top of the 872 tower and secure with two 10-32 X 3/4" socket head cap screws with two flat washers and two 10-32 x 5/8" socket flat head screws.
2. Align the mount square with the tower. Slide the mount side to side to align the printer lok track to the closer lok track. Tighten the mounting screws.

SECTION II Installation

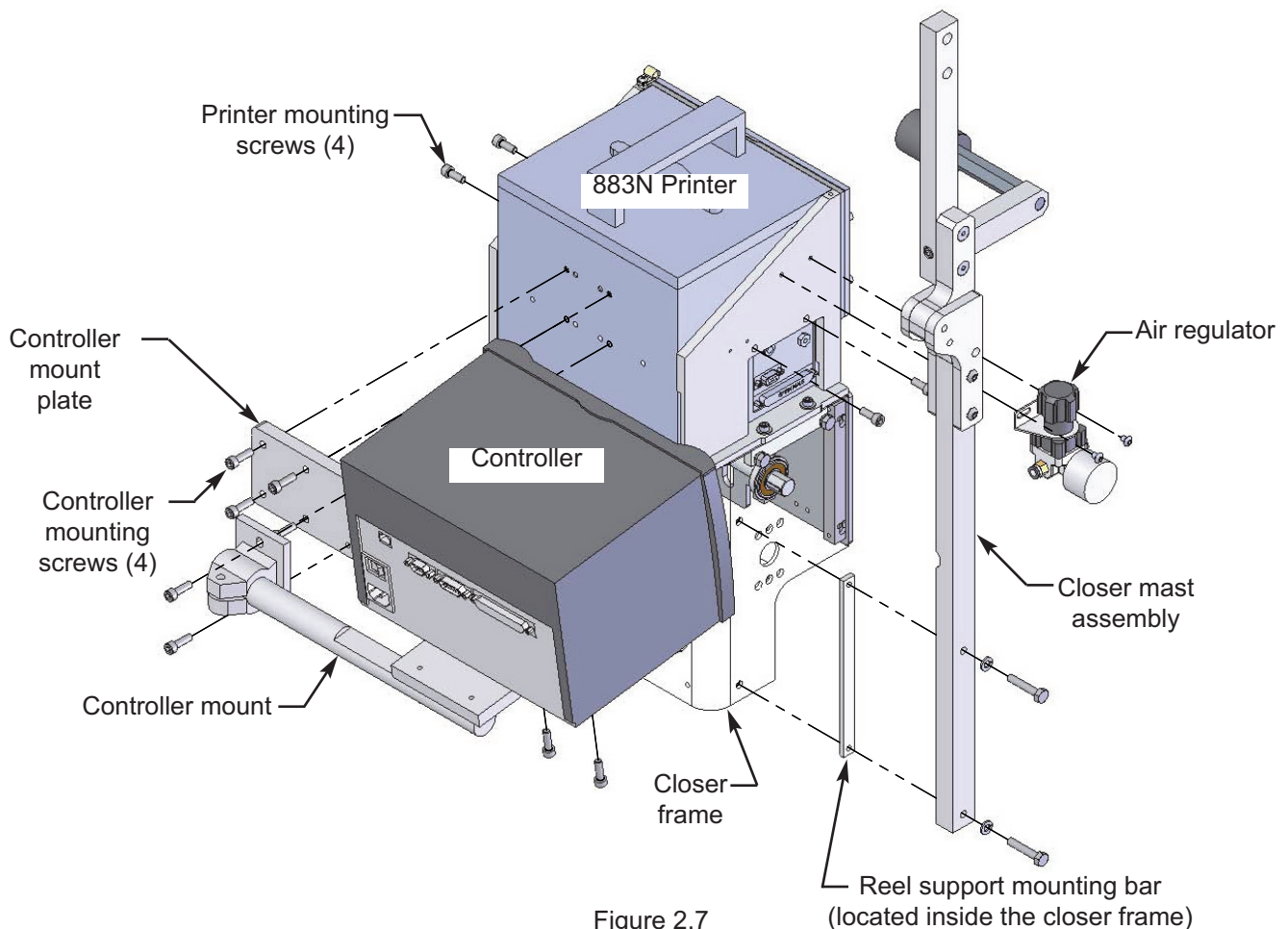


Figure 2.7

F. MOUNT THE PRINTER: Figure 2.6 - 2.9

The lok deflector assists in guiding the closure strip past the print head assembly and into the lok track.

1. Peel off the adhesive backing material from the double sided tape of the lok deflector.
2. Install the lok deflector using the pan head screw supplied as shown in Figure 2.8.
3. Secure the 883N printer unit in the printer mount with four 6mm x 16mm socket head cap screws.
4. Attach the Controller mount plate (08-006530) to the back of the printer with four 6mm x 16mm socket head cap screws.
5. Attach the Controller mount (P37-00008) to the plate with two 6mm x 16mm socket head cap screws.
6. Secure the printer controller to the mount with two 6mm x 20mm socket head cap screws.
7. Mount the air regulator to the side of the 883N printer mount using two 10-24 x 1/4" socket button head screws provided.
8. Mount the lok detector to the front air channel. Route the cable around the back of the printer and secure as shown in Figure 2.9.

SECTION II

Installation

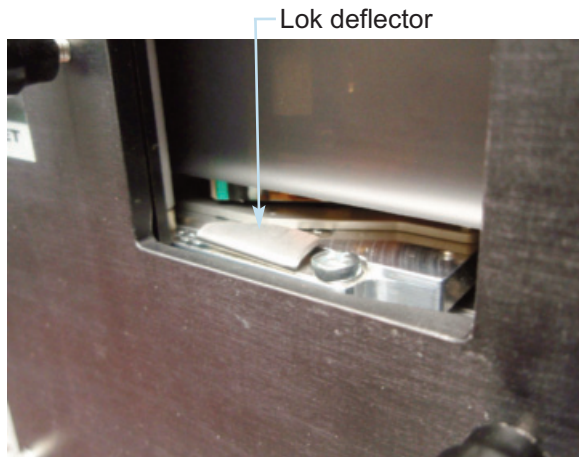


Figure 2.8

G. CONNECT PNEUMATIC TUBING: Figure 2.6 and 2.9

1. Connect the 6" x 1/4" tube from the air inlet "T" connector to the manual air valve.
2. Connect the 40" x 5/32" tube from the manual air valve to the (strip cleaner) air nozzle. Route the tubing around the back of the printer and secure as shown in Figure 2.9.
3. Connect the blue tubing from the inlet "T" to the printer regulator.
4. Connect the tubing from the printer regulator to the printer.

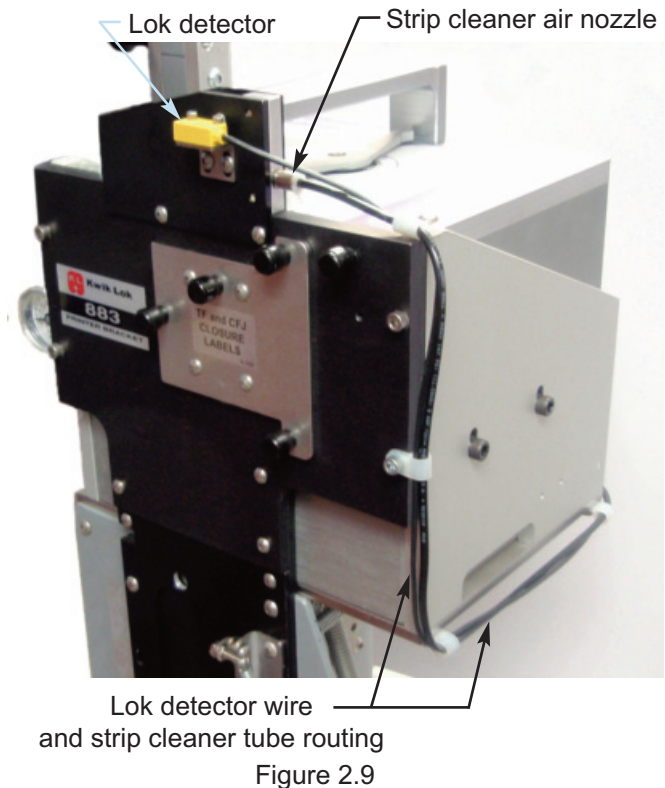


Figure 2.9

H. CONNECT CABLES: Figure 2.2, 2.3, 2.6 and 2.10

1. Connect the extension cable (08-005732) to the printer actuating proximity switch. This cable should be connected to terminal J63 on the solenoid module.
2. Connect the lok detector sensor cable (08-006730) to terminal J66 and J69 on the solenoid module.
3. Connect the printer control cable to the controller. Connect the other end of the cable to the printer. Tighten the mounting screws at both ends of the cable to secure the cable connections.
4. Connect the Power cord to the controller.

SECTION II Installation

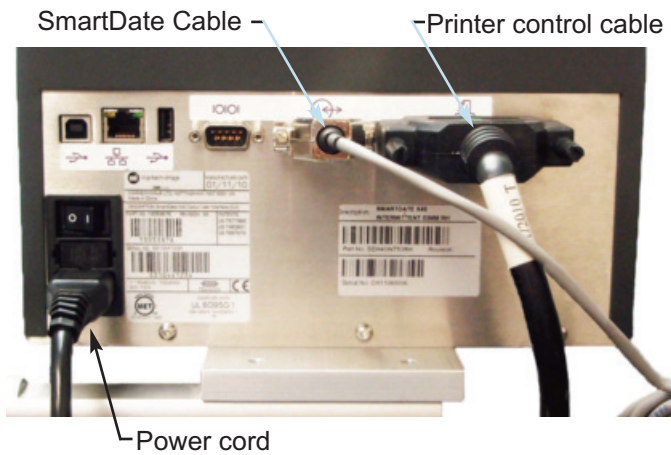


Figure 2.10

I. INSTALL THE MAST: Figure 2.7

1. Remove the reel assembly from the original mast.
2. Install the reel assembly on the new mast.
3. Remove the tower access cover, four 10-32 socket button head screws to gain access to the inside of the closer frame. Place the reel support mounting bar (08-002098) on the inside of the closer frame and secure the mast on the outside of the frame with two 1/4" flat washers, two 1/4" lock washers and two 1/4-20 x 1 1/2" hex bolts.
4. Replace the access cover on the closer frame.

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SECTION III Operation

A. OPERATING SEQUENCE:

Each time the closer reaches the end of the closing cycle, the printer actuating arm of the closer returns to the parked (neutral) position, closing the printer actuating switch.

When the switch is closed it sends a signal to terminal J63 on the solenoid module (See SECTION II INSTALLATION Figure 2.3) For each two times the signal is detected the module closes an internal relay, connecting pins one and two on the solenoid module terminal J65. This provides a print signal to the 883N printer. If the printer is ready to actuate (the green status light is on) the printer cycles once and prints on two closures at the same time.

As the closer begins to cycle, an air valve opens sending compressed air to the strip cleaner located at the top of the printer. Compressed air is applied to the closure strip throughout the closer cycle. The air valve closes when the closer reaches the end of the closing cycle.

The printer prints on every second cycle of the closer.

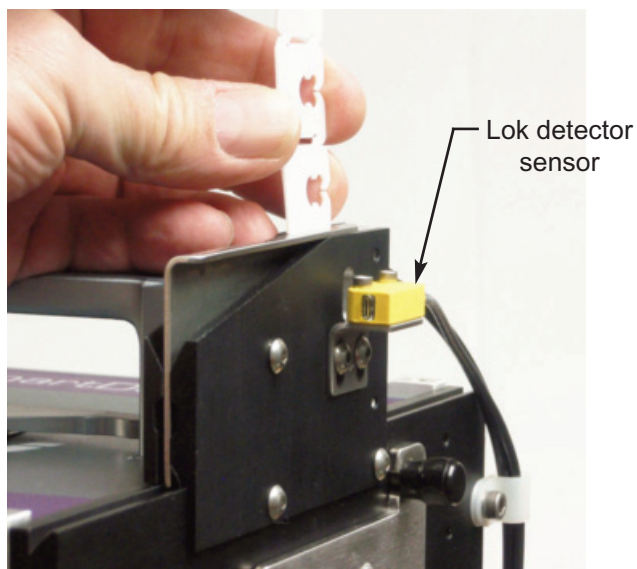


Figure 3.1

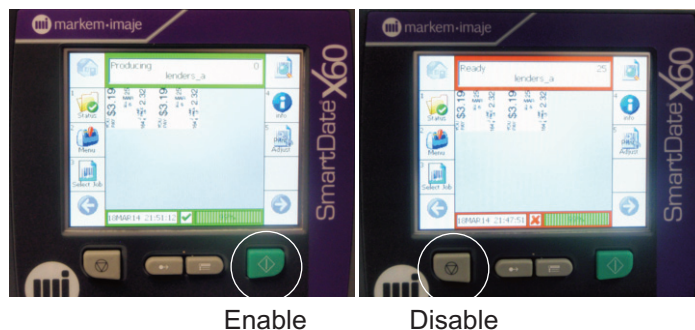


Figure 3.2

The lok detector sensor (Figure 3.1) monitors the lok strip and activates the alarm circuit if loks are not present. When loks are not present, the printer will not activate, but the closer will continue to operate. The system is reset automatically when closures are inserted in the lok track. The closure detection system is standard on the 883N SmartDate X60 thermal printer.

B. ENABLING AND DISABLING THE PRINTER: Figure 3.2

To enable the printer, press the green button. A "✓" displays on the lower center of the controller and the border turns green.

To disable the printer, press the gray button on the front of the printer controller. An "X" displays on the lower center of the controller and the border turns red.

C. LOADING CLOSURES: Figure 3.1 - 3.4

DO NOT FOLLOW EXISTING CLOSURES DOWN THE TRACK.

1. Turn on the air flow valve by swiveling the air control lever (Figure 3.3) to send air to the strip cleaner.

SECTION III

Operation

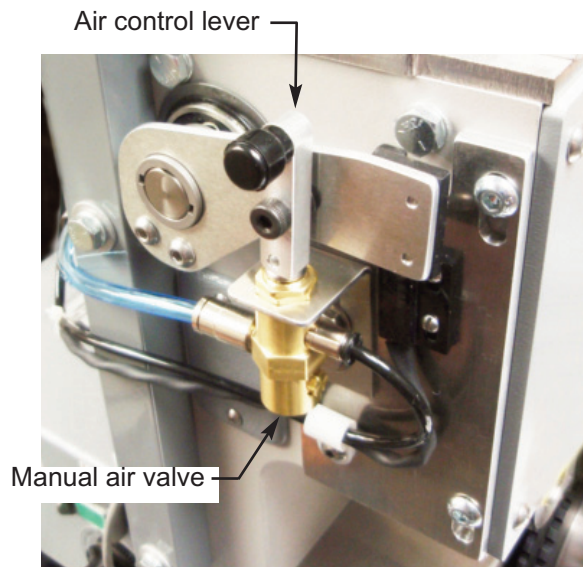


Figure 3.3

NOTE: For right-hand closers straighten the end of the closure strip. Use care when inserting the loks to prevent tearing of the ribbon.

2. Insert the end of the closure strip into the strip cleaner and slide it through the printer into the closer lok track until the pick is engaged between the 1st and 2nd closure (Figure 3.1).

The strip cleaner can now be turned off, or it will turn off automatically after the first cycle of the closer.

3. Engage the lok check located on the front of the closure track (Figure 3.4).
4. Enable the printer.
5. Manually cycle the closer about fifteen times until a printed closure is in the closing position at the bottom of the lok track.

D. LOADING THE PRINTING FOIL:

1. Refer to the SmartDate X60 installation and setup manual for loading foil instructions.
2. Carefully slide in the cassette (loaded with new foil), and move the catch to the locked position.

E. INSTALL SOFTWARE:

Kwik Lok recommends purchasing markem - image CoLOS Create Professional software.

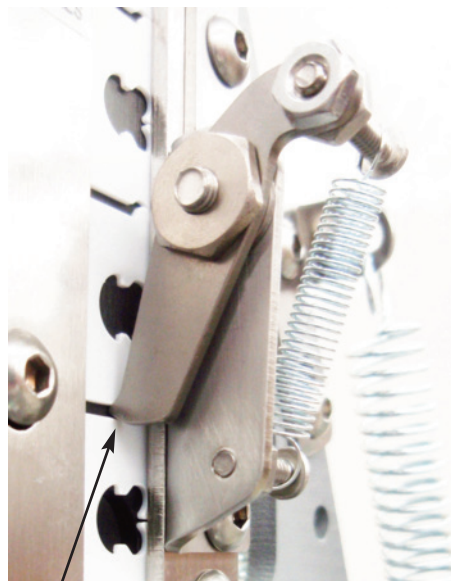
Install and activate the software following the instructions in the CoLOS manual.

F. DESIGNING IMAGE FORMATS:

Figures 3.5 - 3.9

Printed images are designed and modified using CoLOS software, which runs on a PC.

1. At the CoLOS software menu click "**File**" and then select "**New**". Select "**Smartdate X60 53mm intermittent**" from the list of printer options.
2. Right click on the blank image and select "**Properties**". Adjust the image size to: Image Height – 21mm, Image Width – 53mm.
3. From the menu click "**File**" and then select "**Save to repository**". Use the file name



Lok check (engaged)

Figure 3.4

“Blank”. A blank print image has been created and saved for future use.

4. Add text or other information to the image using the CoLOS Manual Section 4 “Create and Download Image” as a guide. The printer prints on two closures at a time. Design the image layout for two closures as shown in Figure 3.5 to 3.9. The printer cycles every other time the closer cycles.
5. When the image design is complete, click **“File”** from the software menu, and then select **“Save to repository”**. Use a different name to save the image design.

Tips to improved image design.

1. Margins are required to allow for variations in the location of the closure when it is printed.
2. For best visibility, select the largest font that will fit in the allotted area. Bold fonts are also a choice if desired.
3. Do not print near the closure web.
4. If using user input such as date, price, etc., link the print fields between the closures to avoid duplicate user input.
5. Dimensions shown in Figures 3.5 to 3.9 are approximate starting points. Print the image on the closure and adjust the text placement as needed.
6. The printer locates the image based on the first dot of printed material. The printer registration must be adjusted each time a print image is changed between the layout shown in Figure 3.5 and the layout shown in Figure 3.6. To reduce the printer registration adjustments, insert a pe-

riod in the print text as shown in Figure 3.10.

The period will cause the text to correctly print at the bottom of the closure using the same registration setting as Figure 3.5.

G. DOWNLOAD IMAGE LAYOUT TO PRINTER:

The print image must be moved from the CoLOS software to the printer before it can be printed. There are two methods: USB drive, and Ethernet. Refer to CoLOS manual section 12 and 14 for additional information.

USB Transfer Method

1. Insert a blank USB drive into the PC. **Warning: the USB drive should be formatted, but blank.**
2. Open the desired print image in the CoLOS software.
3. From the CoLOS menu click **“File”**, and then select **“Print to file”**.
4. Select the USB drive as the file location. Do not create any folders in the USB drive. Click **“OK”**.
5. Remove the USB drive from the PC and install in the Smartdate X60 printer.
6. On the printer press the **“Menu”** button on the screen, and then select **“Copy Files”**.
7. Press **“Copy Jobs From USB”**.
8. Press the confirm button (looks like a check mark) in the lower right of the screen. A print image job will have multiple files.
9. Press the check mark icon again to confirm the copy.

SECTION III

Operation

Ethernet Transfer Method

The PC and printer can be connected to the Ethernet in the standard manner, or the PC and printer can be directly connected to each other with a crossover cable. Virus scanners and firewalls may interfere or completely block communications from the PC to the Smartdate printer. Turn off firewalls and virus scanners, or add an exception for the printer. The PC and printer should be on the same Ethernet sub-net. Consult your IT manager for additional information.

1. Press the **"Menu"** button on the printer screen, and then select **"Settings"**. Press the **"Machine Settings"** button, and select the **"Comms"** tab. Enter the IP address, subnet mask, and gateway. Consult your IT manager for help with determining the correct values.
2. Open the desired print image in the CoLOS software.
3. From the CoLOS menu click **"File"**, and then select **"Download"**.
4. If not already set-up, define the communications method with the printer.
 - a. Click **"Add"**, then select **"Next"** to continue with the wizard.
 - b. Select **"Smartdate X60 53mm Intermittent"**

from the list of printers.

- c. Select **"Next"** to use the default icon name.
- d. Select **"Associate new connection with this device"**.
- e. Select **"Ethernet"**.
- f. Enter the IP address of the Smartdate printer from step 1 above.

5. Click **"Next"** and then **"Finish"**.
6. Click **"Send"** to transfer the print image to the printer.

H. SELECT PRINTER JOB:

1. On the Smartdate controller, press the **"Select Job"** button on the screen.
2. Select the desired print job and press the confirm button (looks like a check mark) in the lower right side of the screen.
3. Fill in variable fields and confirm if required.
4. Press the confirm button (looks like a check mark) again in the lower right side of the screen.
5. Enable the printer by pressing the green button on the front of the printer controller (see Section B).

SECTION III Operation

Recommended usable print area for J-NRP/TGR-3 closure.

All dimensions are in millimeters

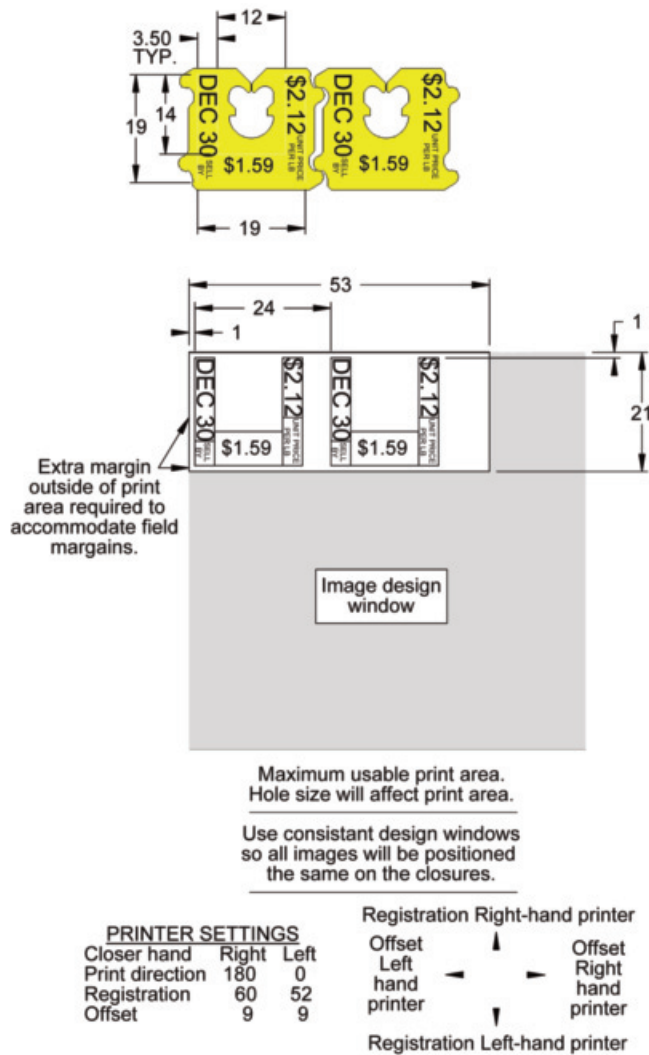


Figure 3.5

Recommended usable print area for J-NRP/TGR-3 closure single line.

All dimensions are in millimeters

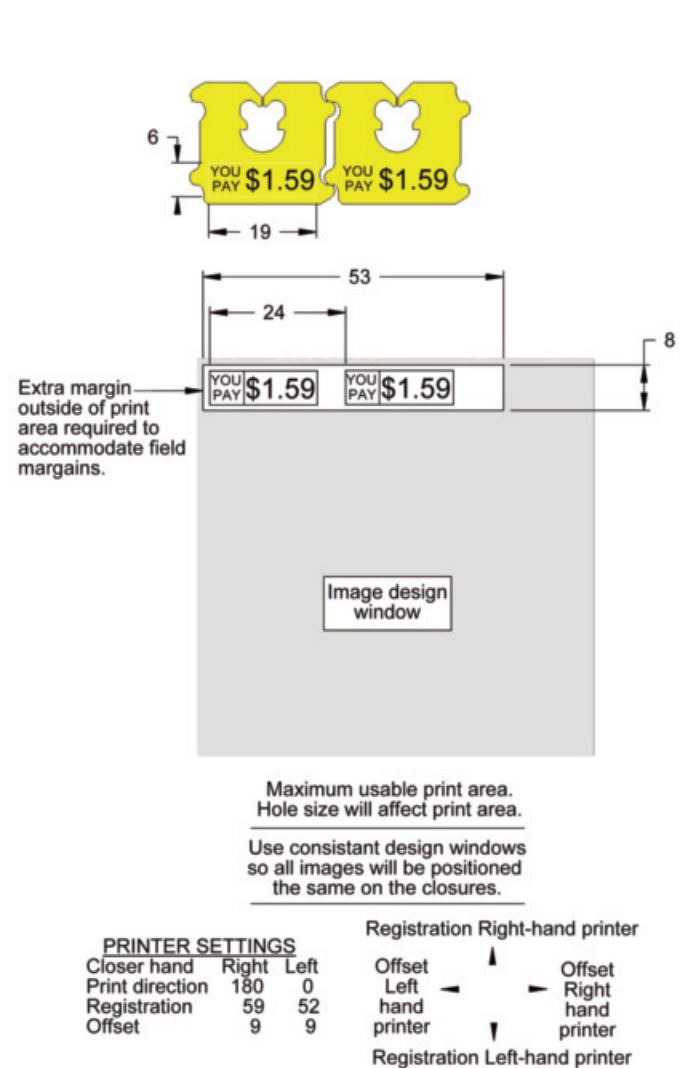


Figure 3.6

SECTION III

Operation

Recommended usable print area for JM-NRP/TGR-3 closure double line.

All dimensions are in millimeters

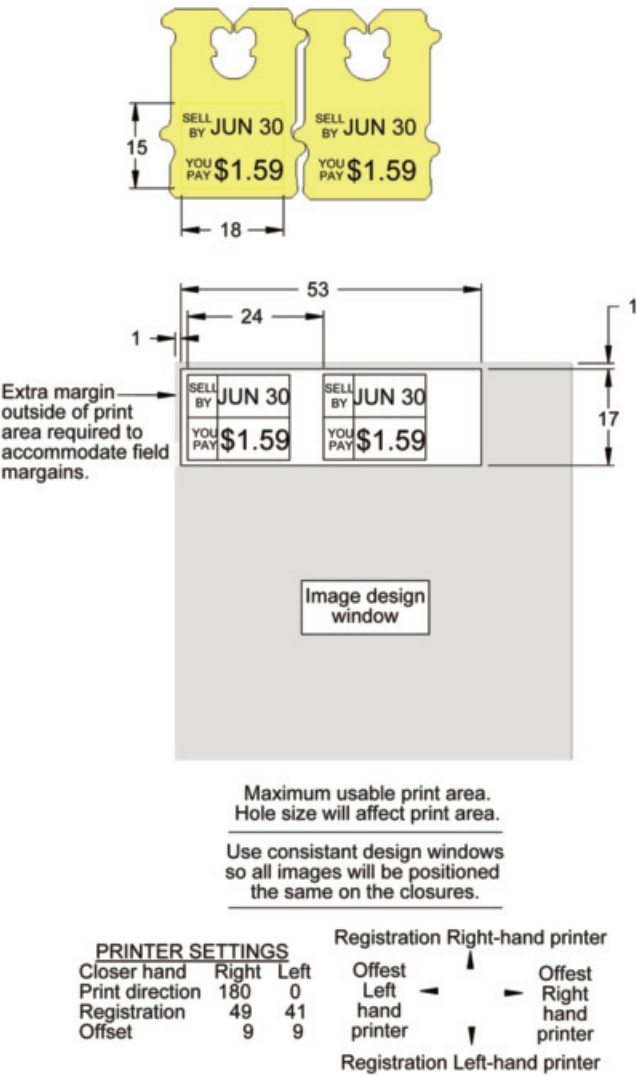


Figure 3.7

Recommended usable print area for JM-NRP/TGR-3 closure.

All dimensions are in millimeters

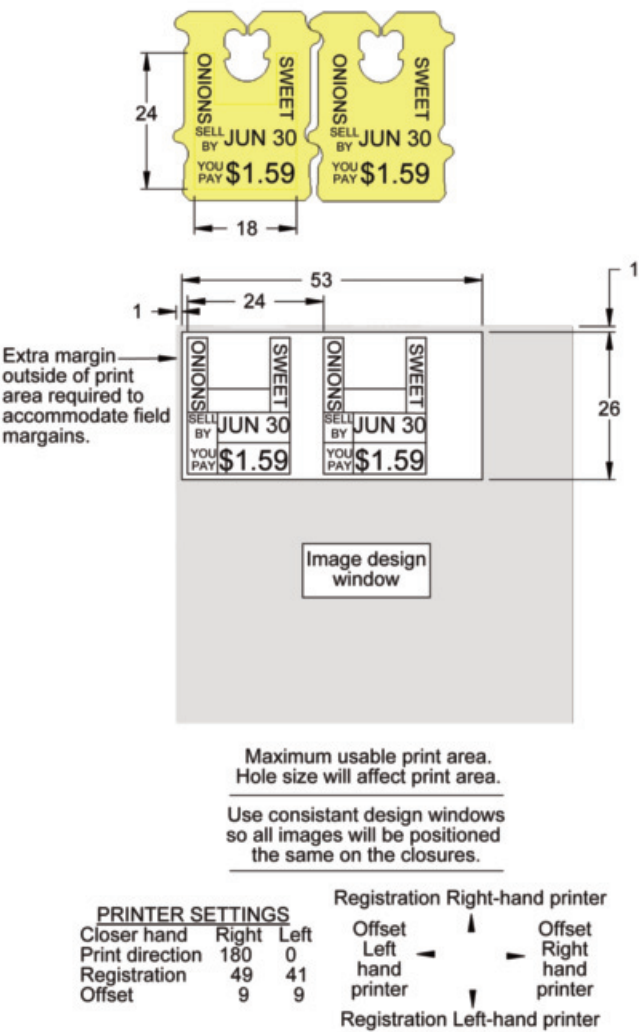
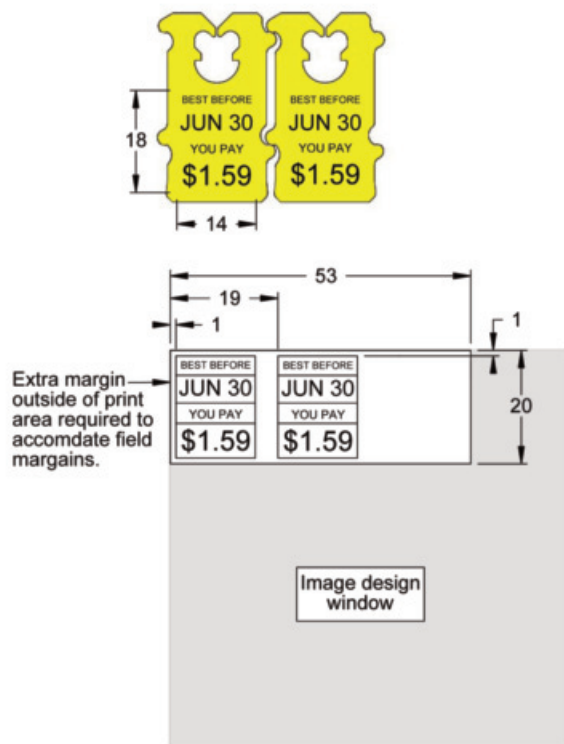


Figure 3.8

SECTION III Operation

Recommended usable print area for VW-NRP/TGR-3 closure.

All dimensions are in millimeters



Maximum usable print area.
Hole size will affect print area.

Use constant design windows
so all images will be positioned
the same on the closures.

PRINTER SETTINGS			Registration Right-hand printer	
Closer hand	Right	Left	Offset	Offset
Print direction	180	0	Left	Right
Registration	50	41	hand	hand
Offset	10	10	printer	printer
			Registration Left-hand printer	

Figure 3.9



Figure 3.10

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SECTION IV Maintenance

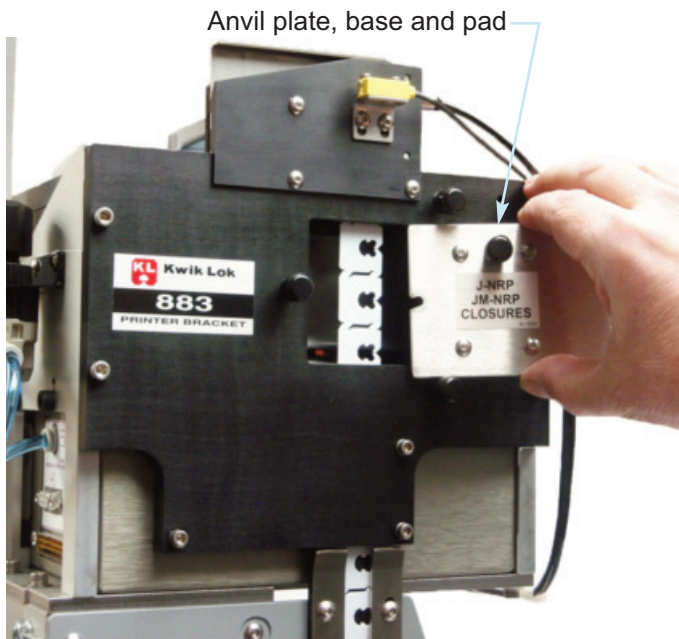


Figure 4.1

A. ANVIL PAD REPLACEMENT: Figure 4.1- 4.3

The printer anvil pad is a wear item and should be inspected periodically. Replacement anvil material is available. Refer to the SECTION VII, Parts Identification for order information. Trim and replace the anvil pad material as follows.

1. Remove the anvil assembly from the printer frame as shown in Figure 4.1.
2. The new anvil pad material must be trimmed to fit within the area of the anvil face. Three pads can be trimmed from one square of pad material. Trim the pad as shown in Figure 4.2. Chamfer the two cut edges of each anvil pad as indicated.
3. Peel the old anvil pad from the anvil base and clean the surface of any adhesive residue to insure a smooth surface for the new pad.
4. Peel the adhesive backing from the trimmed pad and place the pad as shown in Figure 4.3. The chamfered edges must be at the top and bottom of the anvil pad.

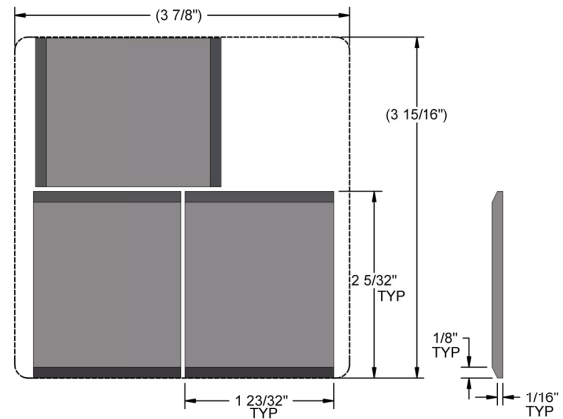


Figure 4.2

B. CLEAN THE PRINthead:

Clean the printhead only with approved wipes from markem - image or with denatured alcohol.

C. REPLACE THE PRINthead:

To replace the printhead, refer to the X60 markem - image operation manual for detailed instruction.

D. CLEAN THE RIBBON CASSETTE AREA:

Clean the ribbon cassette area very carefully with dry air. **DO NOT USE HIGH PRESSURE.**

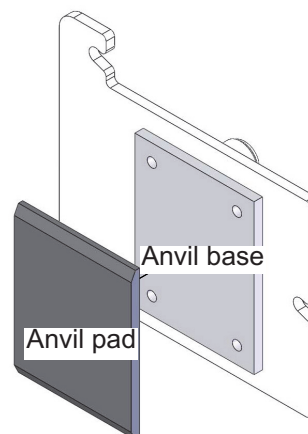


Figure 4.3

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SECTION V Adjustments

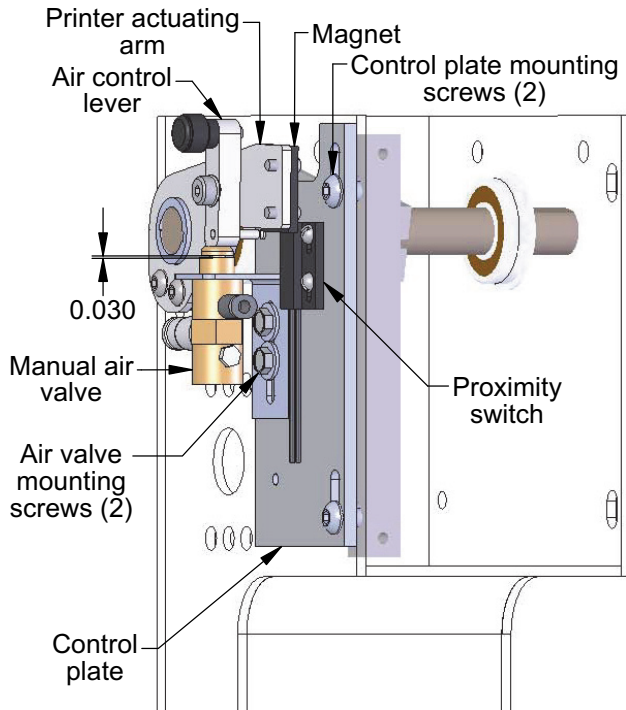


Figure 5.1

A. ADJUST THE ACTUATING SWITCH: Figure 5.1

1. Loosen the hex head screws holding the manual air valve assembly to the control plate and slide the assembly down to the end of the mounting slots. Leave the screws loose.
2. Slightly loosen the two 1/4 - 20 socket button head screws used to mount the control plate.
3. Slide the plate down to the bottom of the mounting slots.
4. Turn on the printer controller.
5. Turn on the closer. Set the closer speed to run very slowly.

Do not connect the air supply to the printer at this time.

NOTE: The printer actuates one time for every two cycles of the closer. With each cycle of the printer two closures are printed.

6. Press the manual cycle switch on the closer and let the closer cycle through one closing cycle. Press the switch a second time. The printer should actuate at the end of the second cycle. If the printer does not cycle, slide the control plate up in the mounting slots about 1/16" (1.6mm) and actuate the closer twice again. Repeat this adjustment in 1/16" (1.6mm) increments until the printer actuates properly. Slide the control plate up an additional 1/32" (0.8mm) and tighten the mounting screws.
7. Verify the printer cycles once for every two cycles of the closer at various speed settings.

B. PRINTER REGULATOR GAUGE:

The air supply to the printer should provide a constant pressure ranging from between 75 and 150PSI (5 and 10 bar). The air must be clean and dry so as not to create problems within the air system.

Check the pressure on the printer regulator gauge. Proper pressure at the air regulator is 4.5 - 5.0 BAR.

C. ADJUST THE MANUAL AIR VALVE: Figure 5.1

The air supply to the printer should provide a constant pressure of at least 75 PSI (5 bar). The air must be clean and dry.

1. Connect the air supply to the printer.
2. Insure the two 10-24UNC hex head screws mounting the air valve bracket to the control plate are loose.
3. Verify that the bracket is at the bottom of the mounting slots.

SECTION V

Adjustments

- 4. With the closer in neutral, slide the mount and valve up toward the operating lever until the distance between the body of the air valve and the head of the piston measures 0.030" (0.8mm) (refer to Figure 5.1).
- 5. Tighten the mounting screws to secure the valve mounting bracket to the control plate.

D. ADJUST THE LOK DETECTOR:

- 1. Insert the closure strip into the printer and closer lok track.
- 2. Cycle the closer several times to make sure the closure strip has advanced to the correct closing location.
- 3. Loosen the screws attaching the lok detector mounting bracket to the outside air channel.
- 4. Adjust the height of the lok detector so that the red sensing light dot is located on the closure between the closure opening and the web of the lok strip. The light dot should also be centered side to side in the slot of the air channel.
- 5. Tighten the mounting screws.

E. SET THE CONTROLLER:

Following are the initial settings for the 883N Smartdate X60 printer. The information is entered from the printer controller. The settings are approximate starting points, and should be adjusted as needed to achieve the best print quality.

For further details concerning the following recommended settings, security options and passwords, refer to the marken-imaje installation and setup manual.

To access restricted settings on the controller press:
MENU - SETTINGS - ENABLE SECURITY - ✓

Then,

MENU - (ENTER PASSWORD) - The default password is "3333". - ✓

SETTINGS - MACHINE SETTINGS - Then make the following adjustments:

MACHINE TAB

Machine Type:	INTERMITTENT
Prompt for Ribbon:	YES
Security Level:	MEDIUM
Database:	LOCAL
Job Queing:	OFF
Power Saving Timer:	OFF

PRINT INITIATION TAB

Debounce	10ms
----------	------

PRINT FEATURES TAB

Speed:	180mm/s
Return Speed:	200mm/s
Ribbon Save Mode:	NO RIBBON SAVE

PRINT QUALITY TAB

Print Darkness:	115%
Print Darkness Adjust:	0%
Leading Edge Boost	80
Body Boost	100
Head Out Time:	30ms
Head In Time:	5ms
Start Border:	0.5mm
End Border:	0.5mm

SECTION V Adjustments

PRINT POSITION TAB

Registration: (refer to SECTION III, Figures 3.5 - 3.9)
Registration Adjust: **0mm**
Offset (vertical): (refer to SECTION III, Figures 3.5 - 3.9)
Print Delay: **25ms**
Rotation: **180° for RH closers**
0° for LH Closers
Maximum Print Width: **55mm**

RIBBON SETUP TAB

Ribbon Grade: Enter the ribbon grade which is printed on the ribbon hub.

Ribbon Color: (choose color) **BLACK**
Ribbon Width: **55mm**
Ribbon Adv Distance: **0.5mm** (Can be increased to 2mm or more if ribbon tearing problems occur.)
Ribbon Spacer Width: **0mm**
Ribbon Extra Wind: **0mm**

RIBBON MONITORING TAB

Ribbon Break Detection: **YES**
Low Ribbon Detect: **YES**
Low Ribbon Size: **10m**

COMMS TAB (COMMUNICATION)

Enter IP address, subnet mask and gateway as needed.

Then press-

HOME - MENU - (ENTER PASSWORD) - ✓

MENU - SETTINGS - DISABLE SECURITY - ✓

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SECTION VI Troubleshooting

For technical support during regular business hours, call your local Kwik Lok distributor. For 24/7 technical support call Kwik Lok Corporation at 1 800-6885945 if you are in the continental U.S. For those outside the U.S., please dial + 1-509-248-4770.

PROBLEM	PROBABLE CAUSE	REFERENCE or CORRECTION
A. Printing is missing characters, or printing the characters too light.	1. Low air pressure.	Increase air pressure.
	2. Worn anvil.	Check the rubber anvil for wear, and replace if worn. See SECTION IV, Maintenance, Part A. ANVIL PAD REPLACEMENT.
	3. Printing build up on anvil from operation without closures.	Clean as needed. Insure that the Lok detector is operational.
	4. Dirty printhead.	Clean printhead. See your Markem manual.
	5. Burrs at the web lift the head and cause missing print.	Design the printed image to be above and below the web junction. See SECTION III, Operation, Part F, DESIGNING IMAGE FORMATS.
	6. Anvil mounting plate.	Make sure all fasteners to the Anvil mounting plate are tight.
	7. Print heat too low.	Increase print heat setting.
	8. Printhead damaged.	Replace printhead.
B. Low quality print on every other closure.	1. Anvil wear.	Check anvil for wear and replace if needed. See SECTION IV Maintenance, Part A., ANVIL PAD REPLACEMENT.
		Make sure the Lok guide and Track mounting plate fasteners are tight.
C. Narrow blank lines missing in the printed image after cleaning.	1. Burnt out pixels.	Replace printhead. See your markem manual.
	2. Printhead darkness.	Printhead darkness should be at 115%. Adjust if needed. SECTION V Adjustments, Part E, SET THE CONTROLLER.

SECTION VI

Troubleshooting

PROBLEM	PROBABLE CAUSE	REFERENCE or CORRECTION
D. Ribbon Breaks.	Print Darkness.	Printhead darkness should be at 115%. Adjust if needed. See SECTION V Adjustments, Part E, SET THE CONTROLLER.
	Start Border:	Start border should be set at 0.5mm. See SECTION V Adjustments, Part E, SET THE CONTROLLER.
	Air pressure too high.	Reduce air pressure.
E. Blotchy print.	1. Heat is too high.	Adjust printhead darkness. Printhead darkness should be at 115%. Adjust if needed. SECTION V, Adjustments, Part E, SET THE CONTROLLER.
F. Printer does not print.	Printer power turned off.	Turn on the printer power switch.
	Printer damaged.	Enable the printer.
	Compressed air disconnected.	Connect compressed air.
	Activation switch adjusted incorrectly.	Review switch adjustment.
	Wrong IC chip installed on the 872 solenoid module.	Review IC part number.
	Lok detection out of adjustment.	Adjust lok detector.
	Lok detector defective.	Replace lok detector.

PARTS ORDERING PROCEDURES

IMPORTANT: When ordering parts ALWAYS:

- (1) Specify on the order the TYPE, MODEL and SERIAL NUMBER of the machine for which the parts are being ordered. This information is found on the machine's nameplate.
- (2) Do NOT order by item number. Order by part number.

There is an option of ordering individual replacement PARTS or of ordering replacement "KITS". A KIT is a group of related PARTS combined under one number. There are two advantages to ordering kits:

- (1) To provide options to the basic machine.
- (2) To facilitate ordering and stocking of spare parts.

To order individual PARTS, be sure to observe the following procedure:

- A. Identify the desired PART(S) by referring to the assembly illustrations following in this section. Each PART is assigned an "Item Number" on the illustration. **DO NOT ORDER BY THE ITEM NUMBER.**
- B. Refer to the drawings parts list. Locate the pertinent item number in the left-hand column. Opposite the item number is the part number and description to be listed on the order.

NOTE THAT SOME PARTS MUST BE ORDERED SPECIFICALLY FOR A RIGHT-HAND OF LEFT-HAND STYLE PRINTER. THIS IS NOTED WITH AN "R" OR "L" AT THE END OF THE PART NUMBER.

Refer to the information on the following page to help determine the flow direction of the closer onto which the printer is mounted.

As an example - 08-006509 R Shim - Lok (see pages 7.8 & 7.9) identifies the LOK SHIM as item 4 on the drawing. Referring to the PRINTER PARTS COMMON Parts List, the description for Item Number 4 is "Part No. 08-006509 R, Shim - Lok" If the Machine Nameplate is marked "Type 883N, Model AJ-NRP R Serial No. 10001-1902" the order should specify as follows:

"One Part No. 08-006509 R, Shim - Lok "
(For Thermal Printer, Type 883N, Model AJ-NRP R, Serial No. 10001-1902)

For technical support during regular business hours, call your local Kwik Lok distributor. For 24/7 technical support call Kwik Lok Corporation at 1 800-6885945 if you are in the continental U.S. For those outside the U.S., please dial + 1-509-248-4770.

SECTION VII

Parts Identification

RIGHT OR LEFT-HAND MACHINE IDENTIFICATION

IMPORTANT: The 883N printer is available in right and left-hand models. Parts lists contain part numbers for both right and left-hand models. Determine the hand of the machine so as to insure that the correct parts are ordered. Use the information provided below to assist in determining if your printer is a right or left-hand model.

1. MODEL - HAND box on the machine's nameplate.

For a right-hand model the last letter will be an "R"

AJ-NRP R
MODEL - HAND

For a left-hand model the last letter will be an "L"

AJ-NRP L
MODEL - HAND

MANUFACTURED BY



Kwik Lok[®]

CORPORATION

YAKIMA, WASHINGTON U.S.A.

883N

AJ-NRP R

10001-1902

TYPE

MODEL - HAND

SERIAL NUMBER

VAC,

Hz,

Amps,

Ph

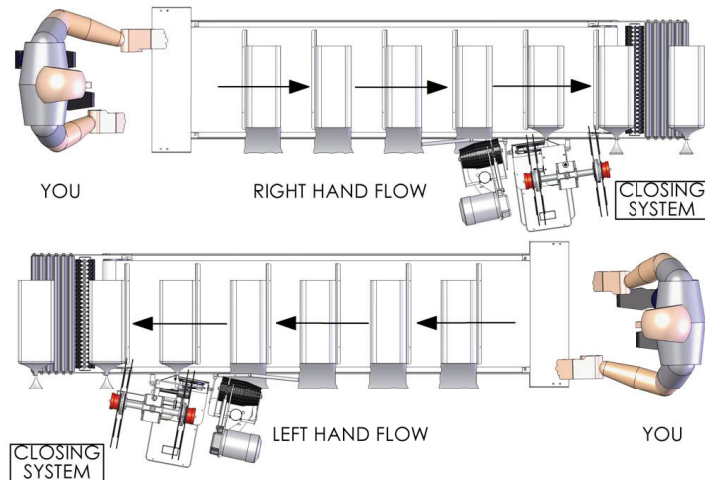
2. To assist in ordering the proper hand items (either right or left-hand) note the example below. The last letter of the part number will be an "R" or an "L" to indicate right or left-hand. If the parts list does not indicate R or L then the part can be used on a right-hand as well as a left-hand machine.

Refer to the diagram below to help determine the flow direction of the closer onto which the printer is mounted.

SECTION VII

Parts Identification

FLOW DIAGRAM



872XLS Flow Diagram

To determine the correct flow direction, visualize your package moving away from you towards the closing machine.

If the open end of the bag is on your right-hand side the flow direction is RIGHT - HAND.

If the open end of the bag is on your left-hand side the flow direction is LEFT - HAND.

SECTION VII

Parts Identification

PRINTER MOUNTING BRACKETS

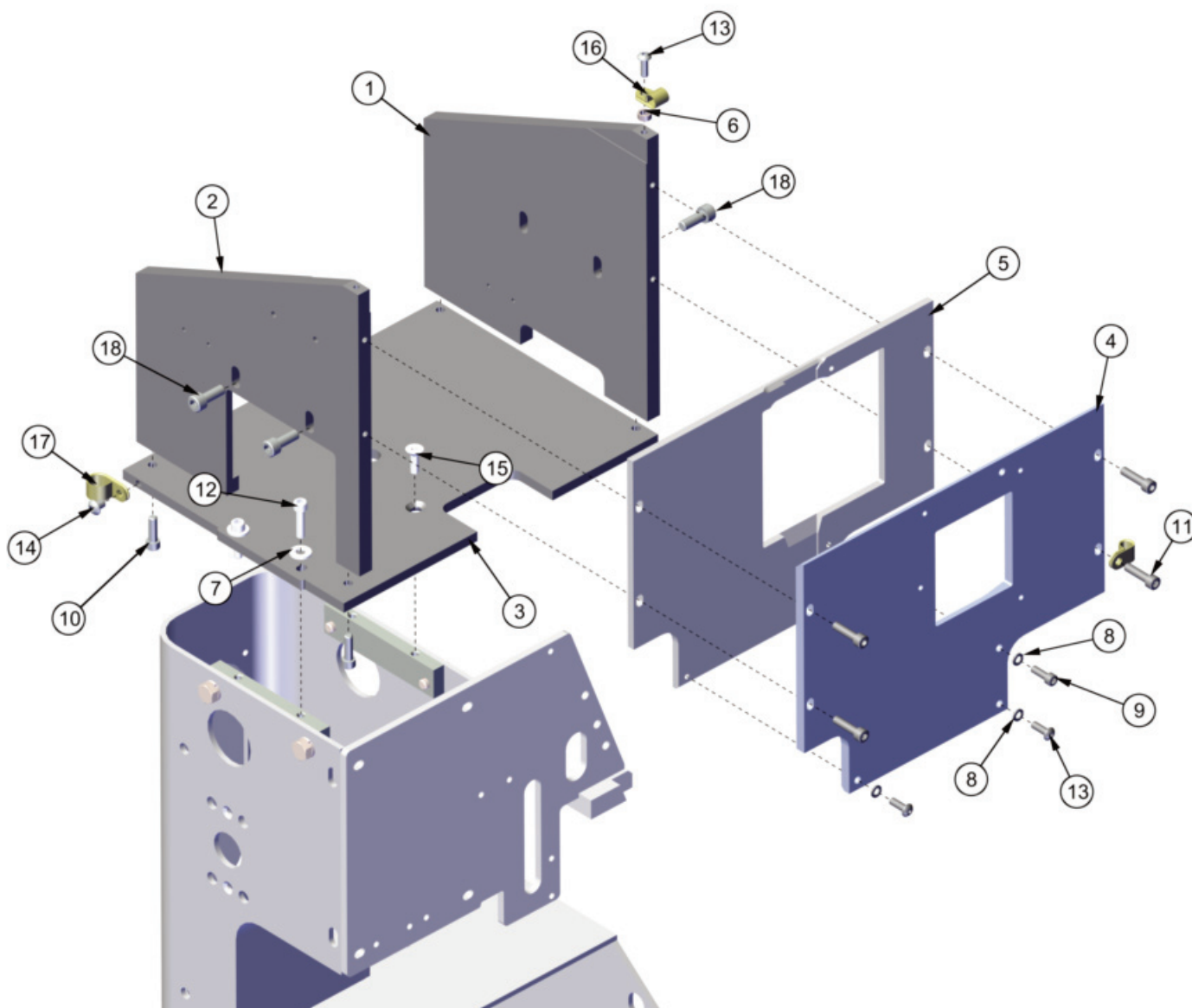


Figure 7.1

SECTION VII

Parts Identification

PRINTER MOUNTING BRACKETS

(Figure 7.1)

PARTS LIST

Item No.	Part No.	Description	Qty.
1	08-006434	MOUNT - PRINTER LEFT-HAND SIDE	1
2	08-006435	MOUNT - PRINTER RIGHT-HAND SIDE	1
3	08-006490	MOUNT - PRINTER BASE	1
4	08-006510 R	GUIDE - LOK	1
4.	08-006510 L	GUIDE - LOK	1
5	08-006511 R	TRACK - LOK J-NRP 883	1
5.	08-006511 L	TRACK - LOK J-NRP 883	1
6	BS 312 203 125	BUSHING	1
7	F01-190 S	WASHER - NO 10 FLAT	2
8	F02-164 S	WASHER - NO 8 LOCK	3
9	F10-164C08 S	SCREW - 8-32UNC X 1/2 LG SKT HD CAP	1
10	F10-190C10 S	SCREW-10-24UNC X 5/8 LG SKT HD CAP	4
11	F10-190C12 S	SCREW - 10-24UNC X 3/4 LG SKT HD CAP	4
12	F10-190F12 S	SCREW - 10-32UNF X 3/4 LG SKT HD CAP	2
13	F11-164C08 S	SCREW - 8-32UNC X 1/2 LG SKT BTN HD	3
14	F11-190C04 S	SCREW - 10-24UNC X 1/4 LG SKT BTN HD	1
15	F12-190F10 S	SCREW - 10-32UNF X 5/8 LG SKT FLT HD	2
16	P11-00229	CLAMP - CABLE 1/4	2
17	P11-00702	CLAMP - CABLE 7/16	1
18	P23-00347	SCREW 6MM X 16 MM SKT HD CAP	4

SECTION VII

Parts Identification

PRINTER AND PANEL MOUNT

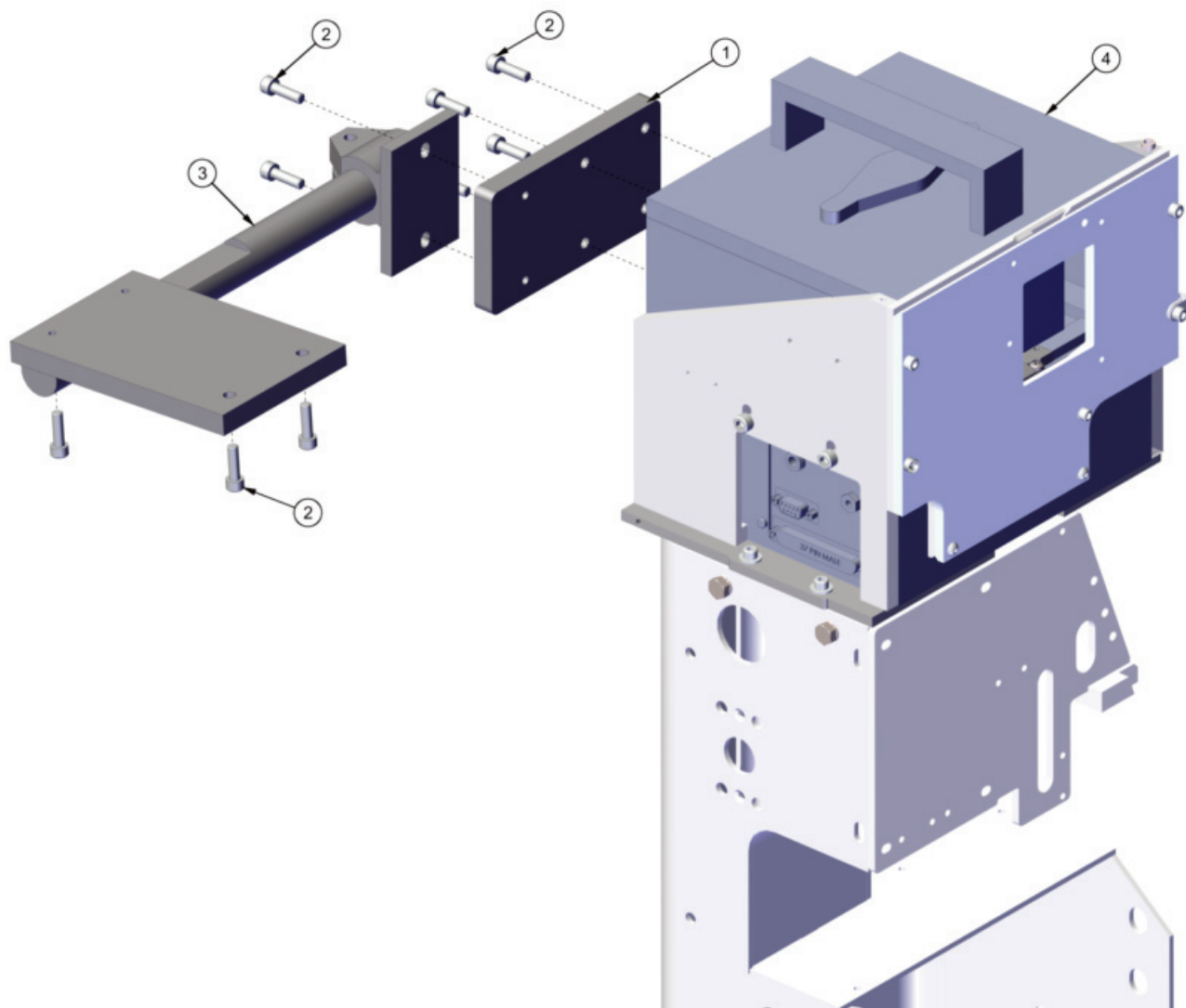


Figure 7.2

PRINTER AND PANEL MOUNT

(Figure 7.2)

PARTS LIST

Item No.	Part No.	Description	Qty.
1	08-006530	PLATE - CONTROLLER MOUNT	1
2	P23-00242	SCREW - 6MM X 20MM LG SKT HD CAP	9
3	P37-00008	MOUNT - CONTROL BOX - SD2I & SD3I	1
4	P37-00067	PRINTER - X60 RH COLOR	1

SECTION VII

Parts Identification

STRIP CLEANER AND CONTROL

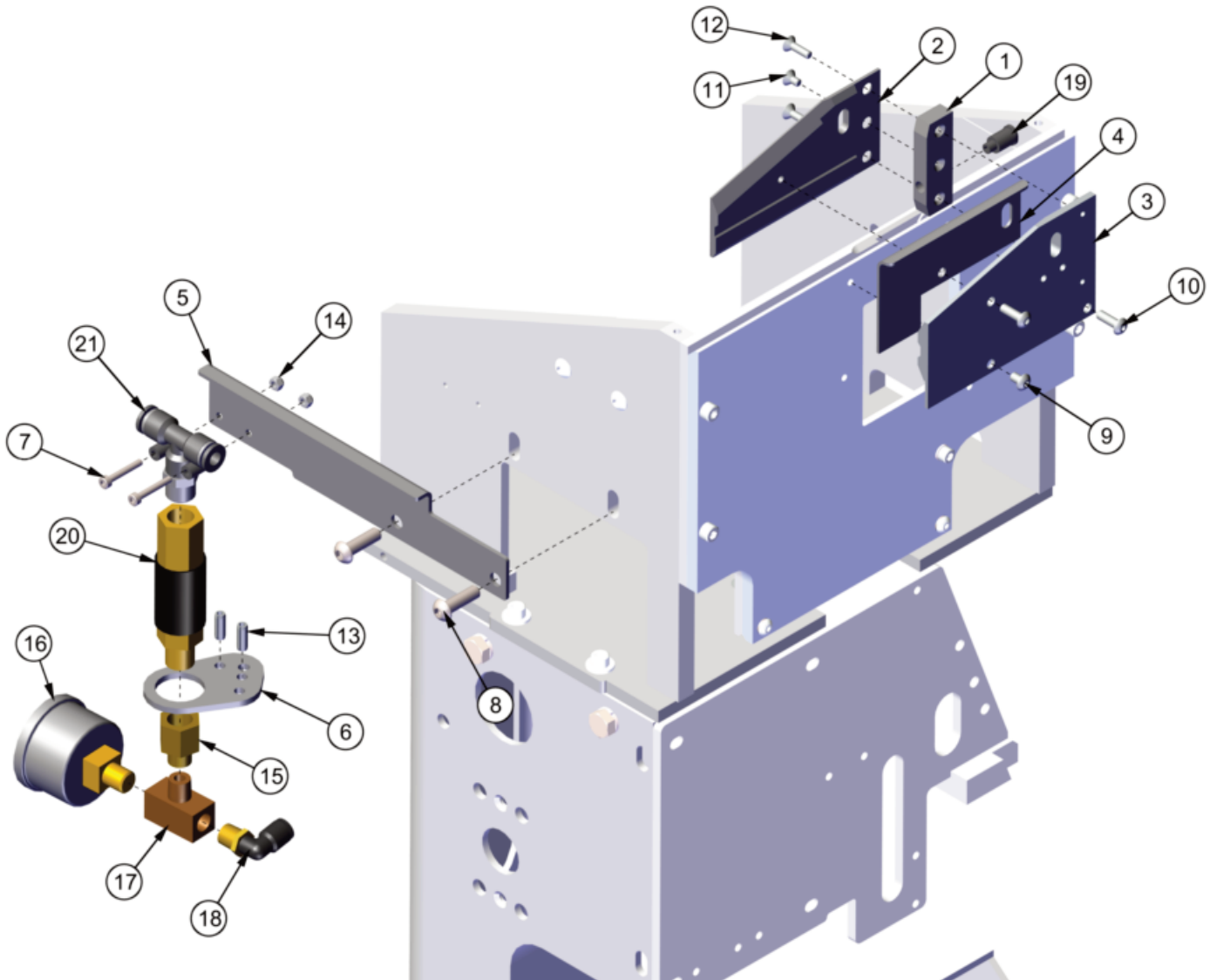


Figure 7.3

SECTION VII

Parts Identification

STRIP CLEANER AND CONTROL

(Figure 7.3)

PARTS LIST

Item No.	Part No.	Description	Qty.
1	08-005667	NOZZLE - AIR	1
2	08-006482 R	CHANNEL - AIR - BACK - J-NRP	1
2.	08-006482 L	CHANNEL - AIR - BACK - J-NRP	1
3	08-006485 R	CHANNEL - AIR - FRONT - J-NRP	1
3.	08-006485 L	CHANNEL - AIR - FRONT - J-NRP	1
4	08-006509 R	SHIM - LOK	1
4.	08-006509 L	SHIM - LOK	1
5	08-007369R	MOUNT - AIR FLOW CONTROL	1
5.	08-007369L	MOUNT - AIR FLOW CONTROL	1
6	08-007385	PLATE - REINFORCEMENT	1
7	F10-M03X020S	SCREW - 3MM X 20MM LG SKT HD CAP S/S	2
8	F10-M06X020S	SCREW - 6MMx20MM SHC-S/S	2
9	F11-164C04 S	SCREW - 8-32UNC X 1/4 LG SKT BTN HD	1
10	F11-164C08 S	SCREW - 8-32UNC X 1/2 LG SKT BTN HD	2
11	F12-138C04 S	SCREW - 6-32UNC X 1/4 LG SKT FLT HD	1
12	F12-138C08 S	SCREW - 6-32UNC X 1/2 LG SKT FLT HD	2
13	P23-00108	PIN - SPRING	2
14	P23-00384 S	NUT - 3MM ESNA	2
15	P35-00213	COUPLING	1
16	P35-00215	GAUGE - AIR	1
17	P35-00344	TEE - BRANCH	1
18	P35-00364	ELBOW - 1/8 P X 1/4 T	1
19	P35-00376	CONNECTOR	1
20	P35-00427	REGULATOR - ADJUSTABLE INLINE PRESSURE 1/4NPT	1
21	P35-00428	COUPLING - QUICK TEE	1

SECTION VII

Parts Identification

PRINTER ACTUATING SWITCH

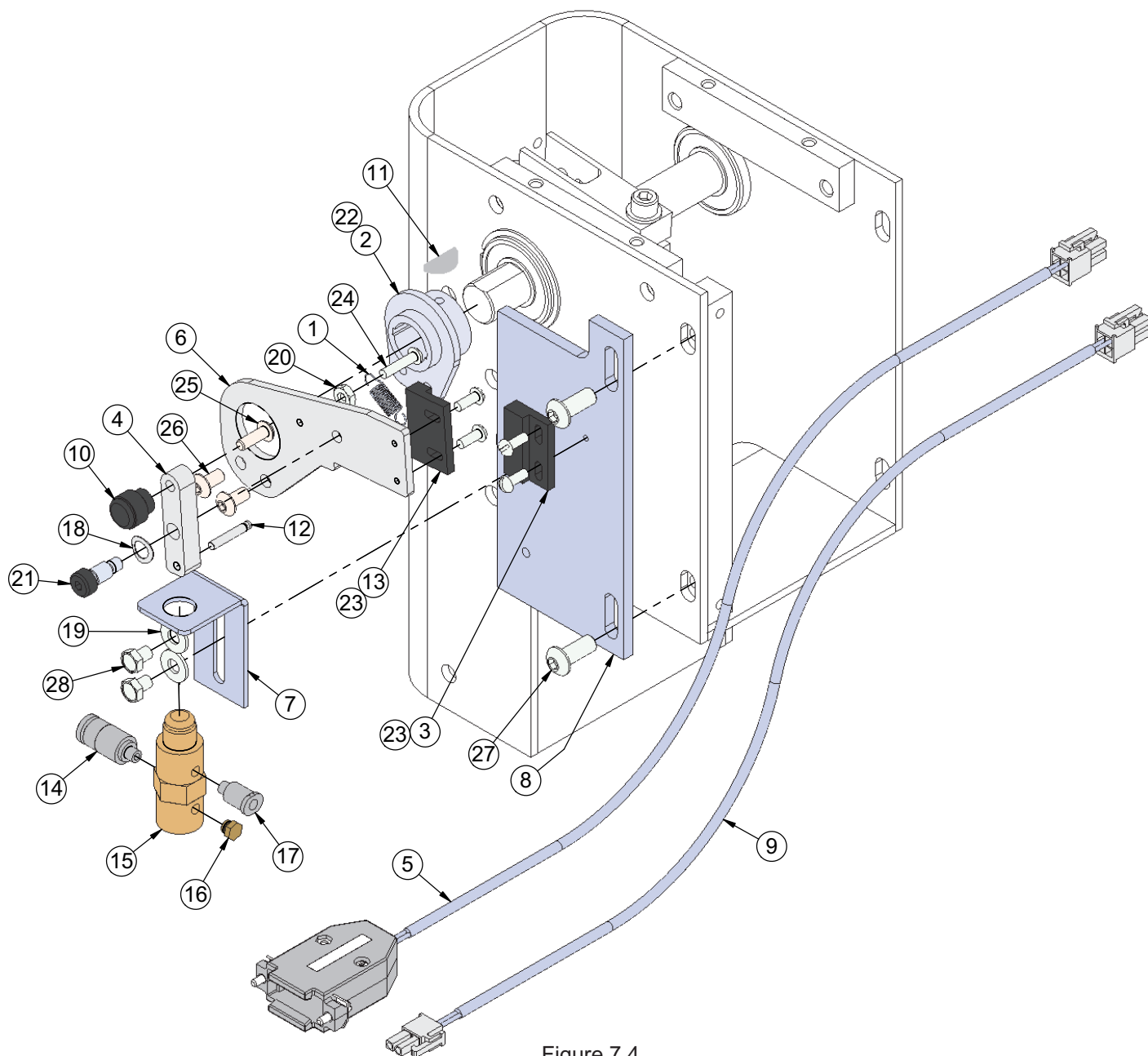


Figure 7.4

SECTION VII

Parts Identification

PRINTER ACTUATING SWITCH

(Figure 7.4)

PARTS LIST

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	0S-102	SPRING - EXTENSION	1
2	08-002695 S	LEVER - PRINTER OPERATING	1
3	08-004670	SWITCH UNIT	1
4	08-005088	LEVER - AIR CONTROL	1
5	08-005230	CABLE - 872 TO SMARTDATE	1
6	08-005233	ARM - PRINTER ACTUATING	1
7	08-005234	MOUNT - AIR VALVE	1
8	08-005235	PLATE - CONTROL	1
9	08-005732	CABLE - SWITCH TO SMARTDATE	1
10	P17-00079	KNOB	1
11	P19-00004	KEY - WOODRUFF	1
12	P23-00100	PIN - DRIVE	1
13	P31-00009	MAGNET - PROXIMITY SWITCH	1
14	P35-00242	CONNECTOR - 10-32UNF X 1/4" OD-T	1
15	P35-00244	VALVE - AIR - MANUAL	1
16	P35-00245	PLUG - 10-32UNF	1
17	P35-00376	CONNECTOR	1
18	P36-00036	WASHER - WAVE	1
19	F01-190 S	WASHER - NO 10 FLAT	2
20	F03-138C S	NUT - 6-32UNC HEX	1
21	F05-250-06	SCREW - 1/4 X 3/8 SOCKET SHOULDER	1
22	F06-250C04	SCREW - 1/4-20UNC X 1/4 LG SKT SET	1
23	F07-138C06 S	SCREW - 6-32 X 3/8 LG MACH HD	4
24	F07-138C10 S	SCREW - 6-32UNC X 5/8 LG RND HD MACH	1
25	F11-164C08 S	SCREW - 8-32UNC X 1/2 LG SKT BTN HD	1
26	F11-190F06 S	SCREW - 10-32UNF X 3/8 LG SKT BTN HD	2
27	F11-250F10	SCREW - 1/4-28UNF X 5/8 LG SKT BTN HD	2
28	F13-190C04S	SCREW - 10-24UNC X 1/4 LG HX HD	2

SECTION VII

Parts Identification

PRINTER ANVIL ASSEMBLY

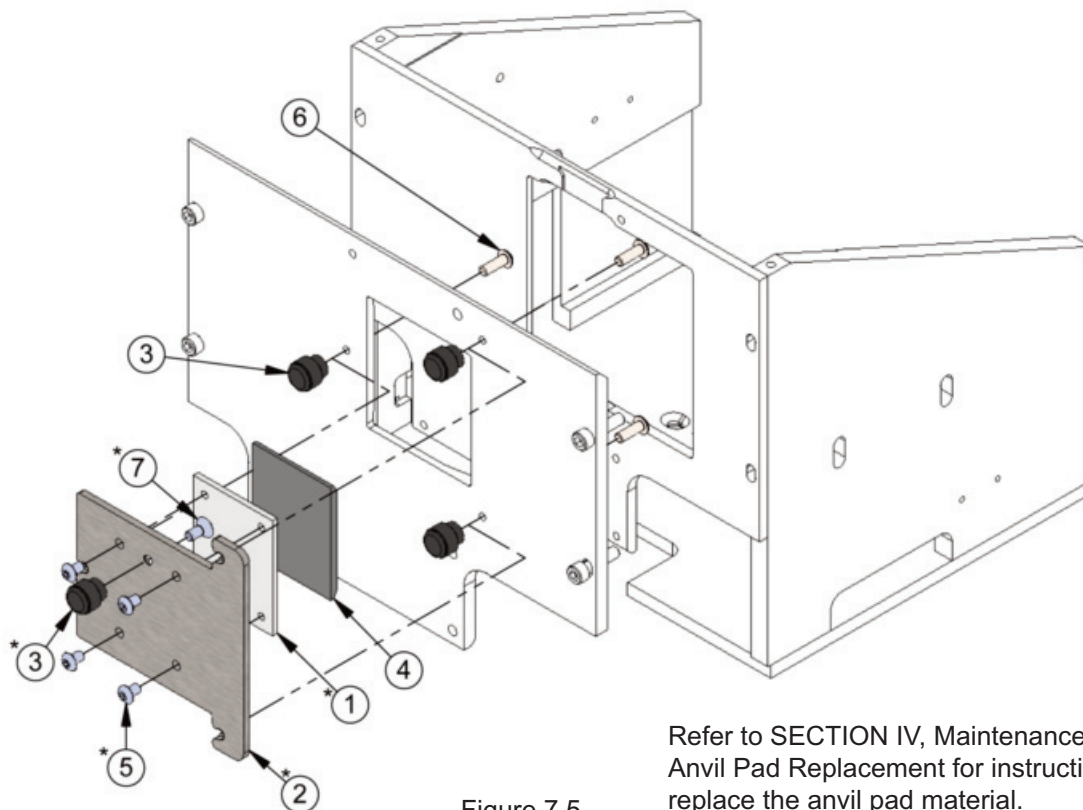


Figure 7.5

PARTS LIST

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	08-006440	ANVIL - BASE - FLAT	1
2	08-006441 R	PLATE - ANVIL MOUNT	1
	08-006441 L	PLATE - ANVIL MOUNT	1
3	P17-00079	KNOB	4
4	P37-00012	ANVIL - RUBBER PAD	1
5	F11-164C04 S	SCREW - 8-32UNC X 1/4 LG SKT BTN HD	4
6	F11-164C08 S	SCREW - 8-32UNC X 1/2 LG SKT BTN HD	3
7	F12-164C06 S	SCREW - 8-32UNC X 3/8 LG SKT FLT HD	1

Parts marked with an " * " constitute Flat Anvil KIT Z8083018 R or L and may be ordered as such.

SECTION VII

Parts Identification

KIT - Z8083040 - LOK DETECTOR

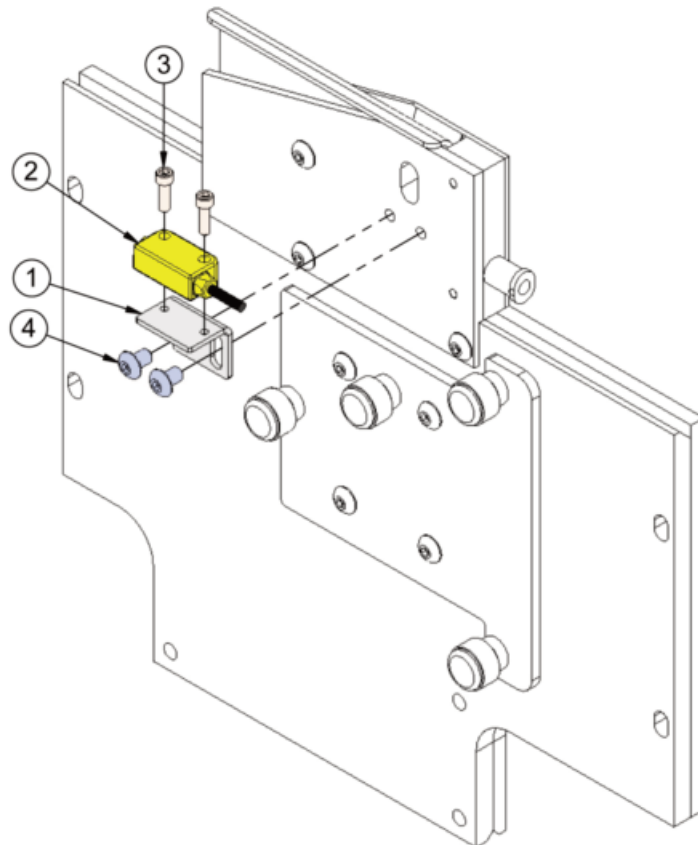


Figure 7.6

PARTS LIST

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	08-006695	MOUNT - LOK SENSOR	1
2	08-006730	SENSOR - LOK DETECTOR	1
3	F10-112C06 S	SCREW - 4-40UNC X 3/8 LG SKT HD CAP	2
4	F11-164C04 S	SCREW - 8-32UNC X 1/4 LG SKT BTN HD	2

SECTION VII

Parts Identification

LOK DEFLECTOR

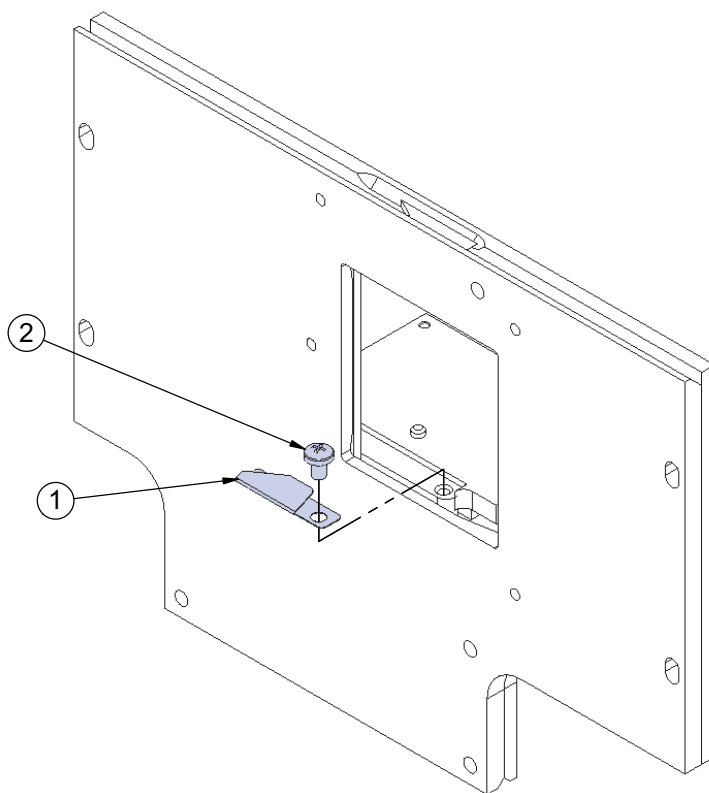


Figure 7.7

PARTS LIST

ITEM NO.	PART NUMBER	DESCRIPTION	" TY.
1	08-006560 R	DEFLECTOR - LOK	1
	08-006560 L	DEFLECTOR - LOK	1
2	P23-00350	SCREW - 4MM " 6MM - PAN HEAD	1

883N PNEUMATICS TUBING

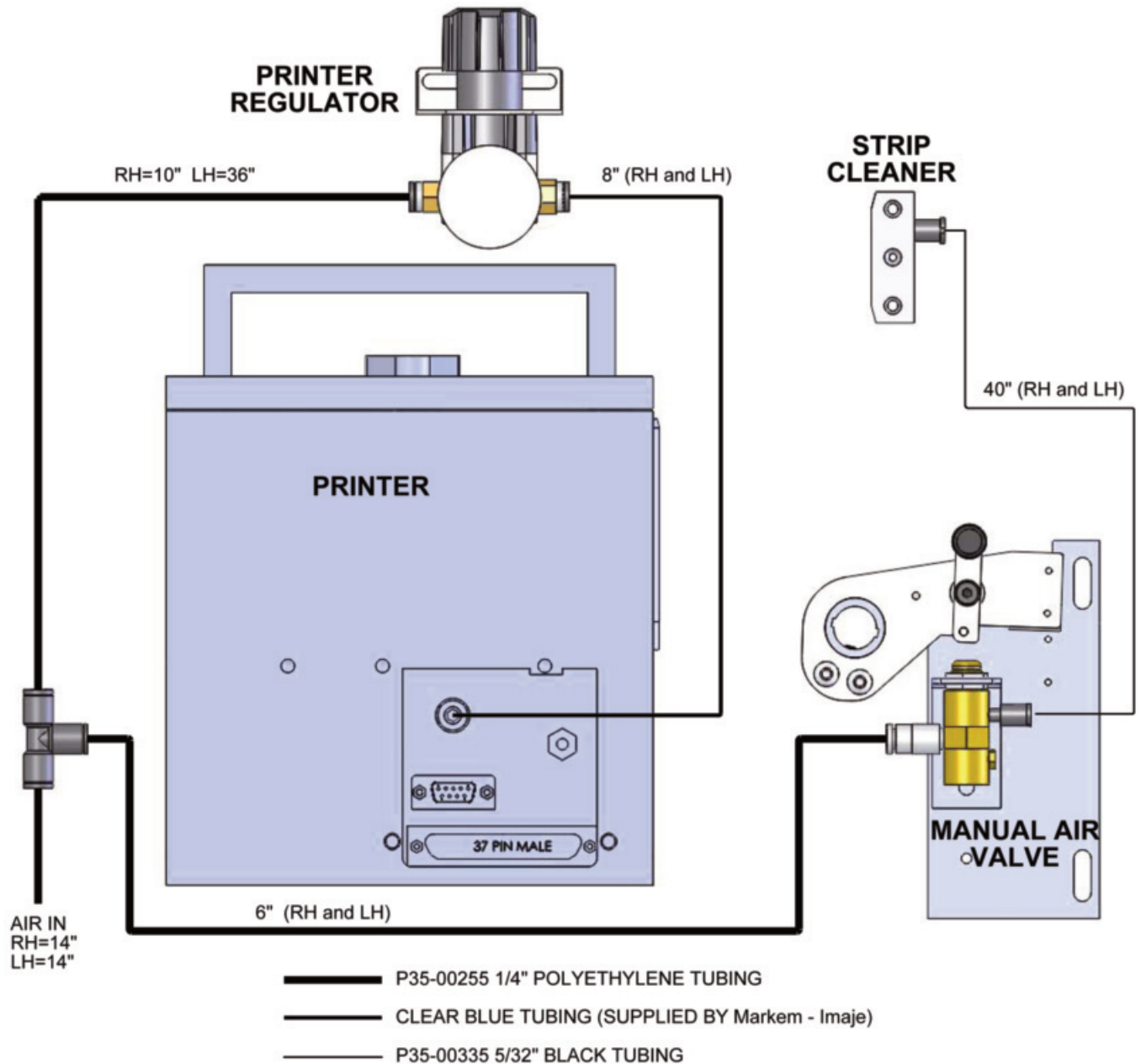


Figure 8.1

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Kwik Lok[®] CORPORATION

EXECUTIVE OFFICE P.O. BOX 9548 YAKIMA, WA. 98909

TELEPHONE: 1-800-688-5945 or (509) 248-4770

FAX: (509) 457-6531

Internet: www.kwiklok.com

SUGGESTED SPARE PARTS INVENTORY FOR THE TYPE 883N PRINTER

Part no.	Description	Qty.
08-006694	SENSOR - LOK DETECTION	1
P37-00012	ANVIL - RUBBER	1

NOTE: Specify on the order the TYPE, MODEL, and SERIAL NUMBER of the machine for which the parts are ordered. This information will be found on the machine's nameplate.

**CONTACT THE FACTORY FOR
CURRENT PRICES.**

APPENDIX

Kwik Lok Corporation

WARRANTY POLICY

Seller warrants to its end user customers that, for a period of one (1) year following shipment from Seller's factory, Seller's equipment will be free from material defects in workmanship or materials. In the event of a breach of the foregoing warranty, the end user customer's sole and exclusive remedy will be to return the defective equipment or component parts to Seller's factory prior to the end of such one (1) year period, freight prepaid, for repair or replacement. Seller will repair or replace the defective equipment or component parts as determined in Seller's sole discretion, and Seller return the equipment or component parts to the end user customer, freight prepaid, at the same location.

This warranty does not apply to equipment problems or failures resulting from abuse, neglect or failure to operate or maintain equipment in accordance with Seller's recommendations and instructions, or resulting from the use of any parts, supplies or services not manufactured, supplied or provided by Seller.

The disassembly of electric motors, gear motors or clutches in Seller's equipment will void this warranty as to such equipment. Whether a particular equipment or component part contains material defects in workmanship or materials, and whether this warranty is applicable to a contended defect, will be determined by Seller in its reasonable judgment.

SELLER HEREBY EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY AND ALL WARRANTIES AS TO DESCRIPTION, QUALITY, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. UNDER NO CIRCUMSTANCES SHALL SELLER BE LIABLE FOR LOSS PROFITS OR OTHER CONSEQUENTIAL DAMAGES, OR FOR ANY OTHER DIRECT OR INDIRECT COSTS OR EXPENSES.

Kwik Lok Corporation's warranty policy does not include those components developed, built and / or supplied by markem-imaje Corporation. For warranty and RMA porcedures concerning those items, address inquires to markem-imaje Corporation.



Kwik Lok[®] CORPORATION

EXECUTIVE OFFICE P.O. BOX 9548 YAKIMA, WA. 98909

TELEPHONE: 1-800-688-5945 or (509) 248-4770

FAX: (509) 457-6531

Internet: www.kwiklok.com

KWIK LOK CORPORATION RETURNED MATERIALS AUTHORIZATION POLICY AND PROCEDURES

Prior to any products being returned, a **Return Materials Authorization** (RMA) must be obtained from *Kwik Lok Corporation*. The RMA number must be issued from the facility that the parts were originally invoiced from. Contact *Kwik Lok Corporation* requesting authorization, and an RMA number will be granted for parts initially deemed returnable.

1. Parts returned without an RMA number will be refused and returned at the shipper's expense.
2. The RMA number must be clearly marked on the return carton.
3. All returned parts must be clearly marked with the appropriate *Kwik Lok Corporation* part number.
4. Proof of purchase (*Kwik Lok Corporation* invoice number) must be provided with all returns.
5. Return for credit will not be allowed if it has been more than 120 days after the original invoice date.
6. Credit will not be issued for parts returned in excess of, or not listed on the prior approved RMA.
7. An RMA will not be issued for parts deemed obsolete, special order, non-returnable and non-cancelable items.
8. All packages must be returned freight prepaid, unless collect freight was approved at the time the RMA was issued.
9. All risks of loss and/or damage of goods in transit are the responsibility of the customer.
10. Incorrect parts shipped due to *Kwik Lok Corporation's* error are returnable, transportation collect.
11. Parts rejected by the customer due to a valid quality problem are returnable, transportation collect, for full credit or replacement under the product warranty. Refer to *Kwik Lok Corporation's* warranty policy.
12. All returns are subject to inspection so as to determine the usability of the parts. Upon completion of the inspection, *Kwik Lok Corporation* will notify the customer (within 15 days) of the results.
 - a. If the parts are determined ineligible for credit or replacement, the customer may elect to have the item(s) returned, freight collect, or discarded by *Kwik Lok Corporation* and credit will not be issued.
 - b. If the parts are determined eligible for credit, it will be issued in the amount of the *Kwik Lok Corporation* invoice less a 20% restocking charge.

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Choose Kwik Lok bag closures

for life

100% traceable
100% reusable
100% recyclable

for people

Easiest closure system to open
and reseal

for your business

Easy and inexpensive to apply
Enhanced branding, cross-promotion and
social responsibility labels
Global supplier to any industry requiring a
sealable/re-sealable product—from food to
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