

# INSTRUCTION MANUAL

for the  
**865A**  
AUTOMATIC  
**BAG CLOSER**

TYPE	MODEL	SERIAL NO.
<input type="text"/>	<input type="text"/>	<input type="text"/>



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# 865A CLOSER

## TABLE OF CONTENTS

SECTION	PAGE
I SPECIFICATIONS.....	1.1 - 1.8
II INSTALLATION.....	2.1
III OPERATIONS.....	3.1 - 3.4
IV MAINTENANCE.....	4.1 - 4.7
V ADJUSTMENTS.....	5.1 - 5.11
VI TROUBLE SHOOTING.....	6.1 - 6.5
VII PARTS IDENTIFICATION.....	7.1 - 7.36
VIII WIRING DIAGRAMS.....	8.1 - 8.2
APPENDIX	
A Bag Length Formula	
B Suggested Spare Parts	
C Warranty	
D Return Materials Authorization	

## GENERAL SAFETY INFORMATION

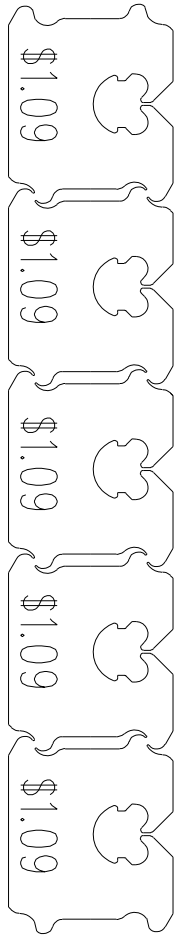
**Be sure the following safety instructions are read, understood, and become part of daily practice when operating or maintaining the 865 closer.**

1. Do not attempt to operate the closer until you understand its function. Study this manual carefully.
2. Keep foreign material and fingers away from the drive system.
3. Keep fingers out of the feed belt's closing area.
4. Disconnect the power cord before making any closing head adjustments or scheduled maintenance. All moving parts must be completely stopped before continuing.
5. After any adjustment, cycle by hand to ensure proper adjustment. Immediately cycling under power may damage the closing head.

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**THE TYPE 865A MACHINE**  
**AUTOMATICALLY CLOSES**  
**PLASTIC BAGS**  
**WITH THE STRIPLOK® CLOSURE**

- A. The 865A Automatic Bag Closing Machine closes packages with the “NRP” style Striplok bag closures and Striplok bag closure-labels. The machine is equipped with a variable speed control for closing up to 80 packages per minute.
- B. The closer is available in right-hand or left-hand models. The parts identification section includes part numbers for both right-hand and left-hand models.
- C. The 865A will close various package widths without adjustment. Package width limitations are determined by the closure opening, not the gearing of the machine. The 865A will adapt to most automatic bag closing operations.
- D. Maximum package weight listed is based on factory approved closure opening size. Upon request, and receipt of sample bags, the factory will gladly recommend the proper closure opening sizes. Use the bag length formula found in the appendix section of this manual to help determine the proper bag length needed.
- E. The system will close a wide range of product size variations. The striplok closures are available in many closure opening sizes to accommodate a large number of variations in bag widths and film thicknesses.
- F. A suggested spare parts inventory is listed in the appendix. To save valuable time, it is recommended that an adequate supply of these parts be kept on hand for needed repairs.
- G. The machine is bag actuated and equipped with a variable speed control.

# SECTION I

## Specifications

TYPE	MODEL DESIGNATION				MAXIMUM PACKAGE WEIGHT (5)	SPEED (6)	ADDITIONAL CLOSURES AND AVAILABLE CLOSURE LABELS (5)
	(1)	(7)	CLOSURE (2)(3)	FLOW (4)			
865A	A, B, C, or D	G	J-NRP	R or L	Up To 5 LB	80	CFJ, PF, TF, P-200, T-220 (medium duty plastic)
865A	A, B, C, or D	G	K-NRP	R or L	Up To 10 LB	80	CFJ, PF, TF, P-200, T-220 (heavy duty plastic)
865A	A, B, C, or D	G	JM-NRP	R or L	Up To 5 LB	80	PFM, TFM, PM-200, TM-220 (medium duty plastic)
865A	A, B, C, or D	G	KM57-NRP	R or L	Up To 20 LB	80	KM-NRP, PFM, TFM, PM-200 TM-220 (heavy duty plastic)
865A	A, B, C, or D	G	JW-NRP	R or L	Up To 5 LB	80	NONE
865A	A, B, C, or D	G	KW-NRP	R or L	Up To 10 LB	80	NONE
865A	A, B, C, or D	G	Z-NRP	R or L	Up To 10 LB	50	TFZ (heavy duty plastic)
865A	A, B, C, or D	G	Z90-NRP	R or L	To 50 LB	50	Z72-NRP

### FOOTNOTES

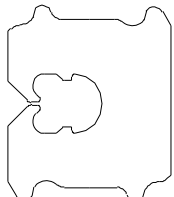
- (1) Model A designates the standard 865 Closer. Model B utilizes the extended belt drive. Model C features a bridged frame design. Model D combines the features of the extended belt drive and the bridged frame.
- (2) The closer will utilize only series NRP style closures.
- (3) The closer requires the use of reversed style closure-labels only. (Front of label glued to back of the closure.)
- (4) The hand selected will normally be determined by the required position of the closure reel. See diagram.
- (5) The lok opening size determines maximum product weight allowable. Larger lok openings will reduce listed package weights.
- (6) Speed is defined in packages per minute. Width of bag and in-feed consistency can affect the packages per minute the closer will handle. (i.e. 8" bag handled automatically could be closed @ 120 pkgs/min. 30" bag hand fed could be closed @ 35 pkgs/min.)
- (7) The "G" in model designation features an optional lower gearbelt drive system. This option is used for wet and / or heavy conditions.

## CLOSURE AND CLOSURE LABEL IDENTIFICATION

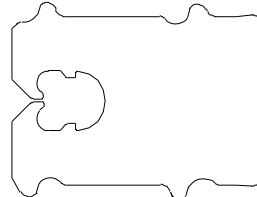
(CLOSURES AND CLOSURE LABELS ARE SHOWN AT FULL SCALE)

The 865 closer is available in right-hand and left-hand models. Any Kwik Lok closure (without a label) will run through either a right-hand or a left-hand closing machine. All Kwik Lok closure labels are manufactured as right-hand or left-hand to fit the hand of the closing machine being used. Refer to the flow diagram on page 1.7 to identify which hand of closing system is being used.

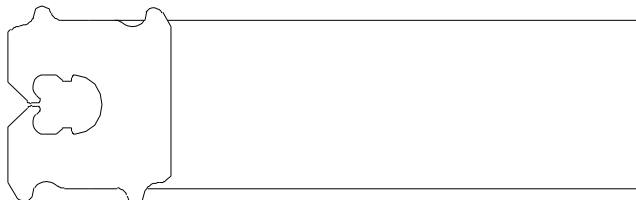
All the closure labels shown on this page are **RIGHT-HAND**.



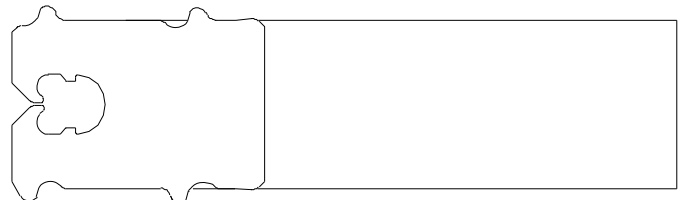
J-NRP or K-NRP  
Closure



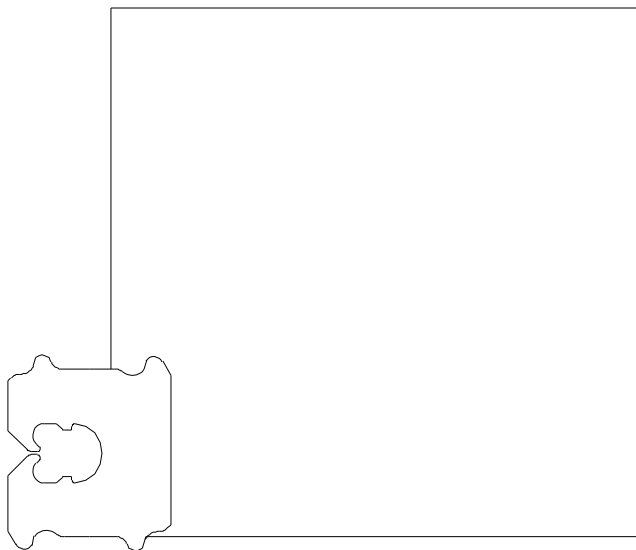
JM-NRP, KM-NRP  
or KM57-NRP Closure



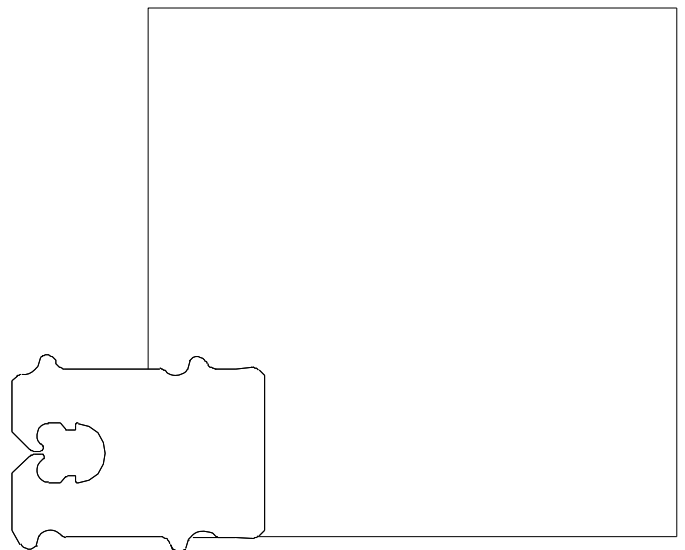
PF or P-200 Label



PFM or PM-200 Label



TF or T-220 Label



TFM or TM-220 Label

Figure 1.1

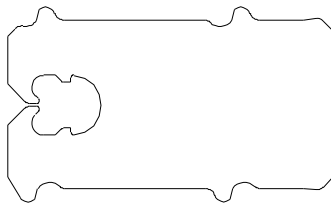
# SECTION I Specifications

## CLOSURE AND CLOSURE LABEL IDENTIFICATION

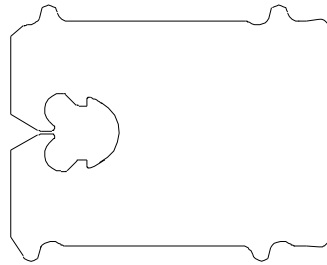
(CLOSURES AND CLOSURE LABELS ARE SHOWN AT FULL SCALE)

The 865 closer is available in right-hand and left-hand models. Any Kwik Lok closure (without a label) will run through either a right-hand or a left-hand closing machine. All Kwik Lok closure labels are manufactured as right-hand or left-hand to fit the hand of the closing machine being used. Refer to the flow diagram on page 1.7 to identify which hand of closing system is being used.

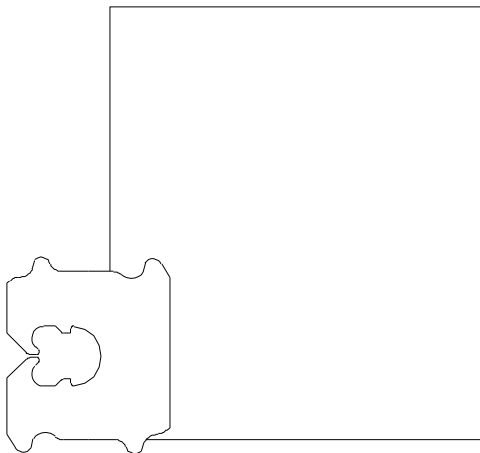
All the closure labels shown on this page are **RIGHT-HAND**.



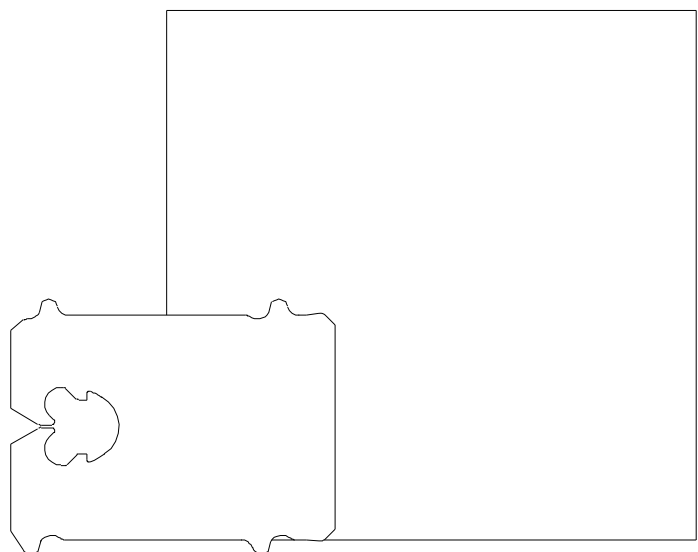
JW-NRP or KW-NRP  
Closure



Z-NRP, Z72-NRP or  
Z90-NRP Closure



CFJ Label



TFZ Label

Figure 1.2

## CLOSURE AND CLOSURE LABEL IDENTIFICATION

(CLOSURES AND CLOSURE LABELS ARE SHOWN AT FULL SCALE)

The 865 closer is available in right-hand and left-hand models. Any Kwik Lok closure (without a label) will run through either a right-hand or a left-hand closing machine. All Kwik Lok closure labels are manufactured as right-hand or left-hand to fit the hand of the closing machine being used. Refer to the flow diagram on page 1.7 to identify which hand of closing system is being used.

All the closure labels shown on this page are **LEFT-HAND**.

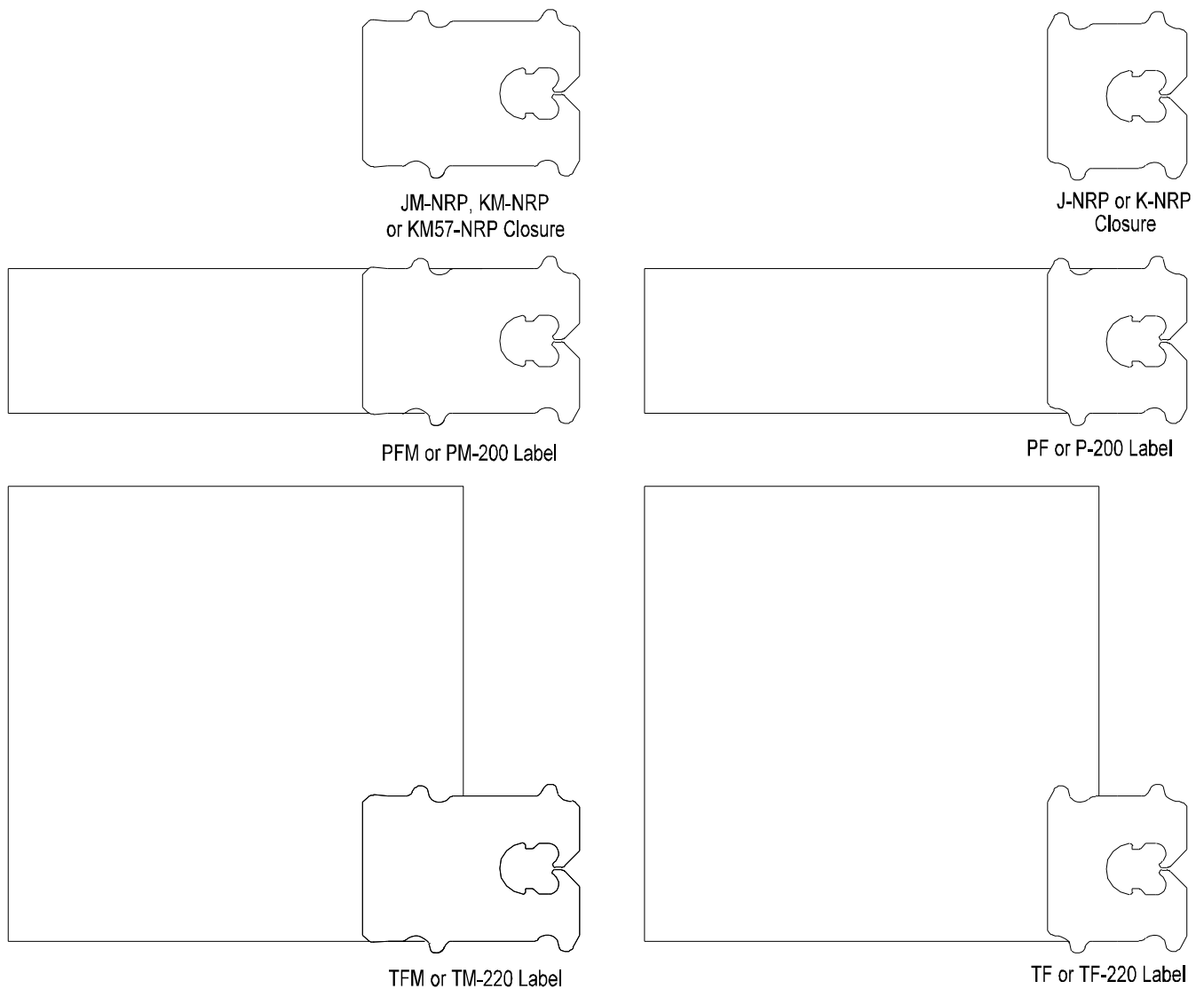


Figure 1.3

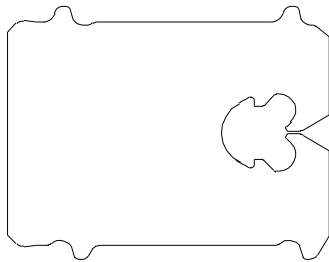
# SECTION I Specifications

## CLOSURE AND CLOSURE LABEL IDENTIFICATION

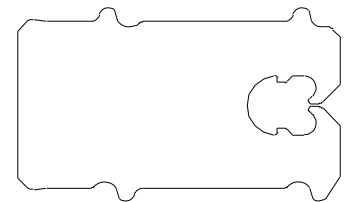
(CLOSURES AND CLOSURE LABELS ARE SHOWN AT FULL SCALE)

The 865 closer is available in right-hand and left-hand models. Any Kwik Lok closure (without a label) will run through either a right-hand or a left-hand closing machine. All Kwik Lok closure labels are manufactured as right-hand or left-hand to fit the hand of the closing machine being used. Refer to the flow diagram on page 1.7 to identify which hand of closing system is being used.

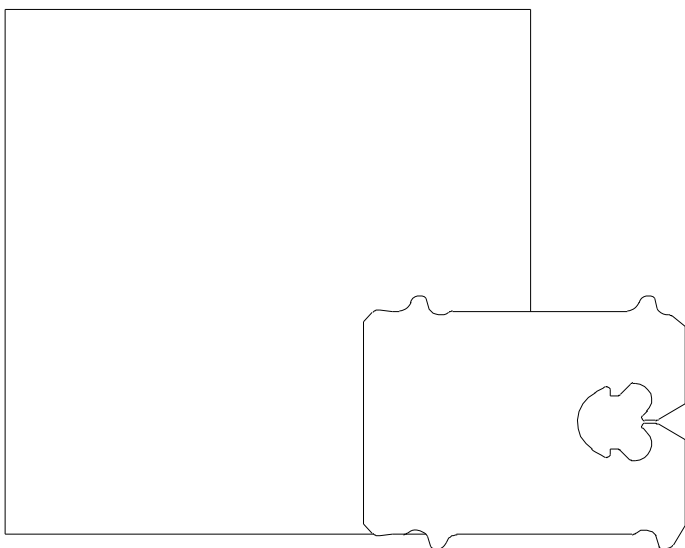
All the closure labels shown on this page are **LEFT-HAND**.



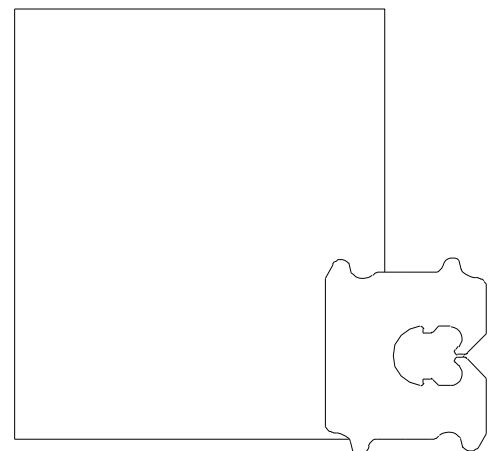
Z-NRP, Z72-NRP or  
Z90-NRP Closure



JW-NRP or KW-NRP  
Closure



TFZ Label



CFJ Label



# SECTION I Specifications

## FLOW DIAGRAM

To determine the correct flow direction, visualize standing behind the closer with the product moving toward you.

If the closure reel is on your right - the flow direction is **RIGHT-HAND**.

If the closure reel is on your left - the flow direction is **LEFT-HAND**.

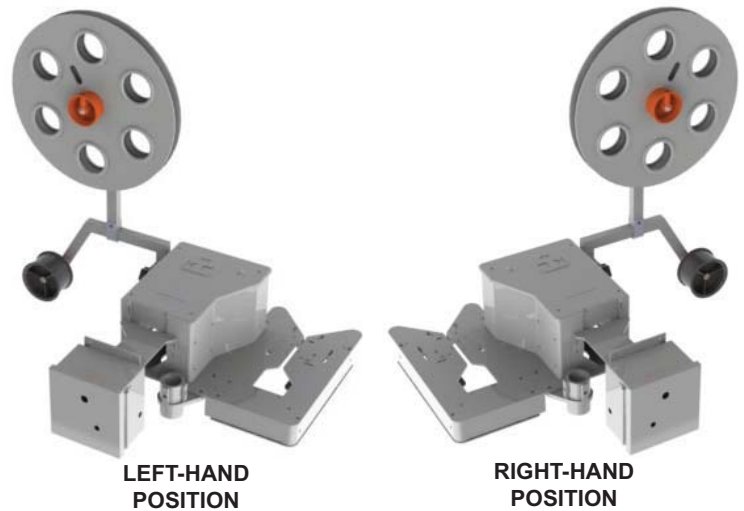


Figure 1.5

## TYPICAL APPLICATIONS

Vertical packages, produce (wicketed baggers and roll-stock baggers), ice, candy, and many hand-feed applications.

## SPECIFICATIONS

Without Printer and with Standard Reel  
Height: 23.3/4" Length: 25"  
Width: 24.1/4" Weight: 66 lbs

With 897C Printer and Standard Reel  
Height: 31" Width: 28"  
Length: 25" Net Weight: 91 lbs.

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Power: 115-250 VAC, 1 Ph, 50/60 Hz, 1.0 Amp

## IMPRINTING OPTIONS

### **COLD STAMP SYSTEM**

The 897C Cold Foil Printer is well suited for printing on any closure or closure label available for the 865 Bag Closing Machine.

The 897C Printer is capable of printing multiple lines of information. Type characters can be changed or rearranged very quickly. Type can consist of prices, dates, codes, logos, lot numbers, and a wide variety of other printed information that may be required on your package.

The printer is air operated with an air pressure of 80 PSI and prints at a maximum speed of 80 closures per minute. Printing speed depends on the speed of the 865 Bag Closer. This printing system utilizes dry tape and long wearing hardened steel type ideally suited to printing small type sizes.

# SECTION I Specifications

## ORDERING INFORMATION

Refer to the specification chart located on page 1.2 and determine the following:

- A. **TYPE & MODEL:** List type and select model based on desired closure and flow direction. (i.e. Type 865A Model AK-NRP-R).
- B. **TYPE OF INSTALLATION:** Orders must identify the type of equipment on which the 865 will be installed. (Bagger brand and model, conveyor, etc. i.e. Mounted on a "VOLMPACK WBRI" Bagger).
- C. **POWER REQUIREMENTS:** Indicate your single phase voltage (i.e. 115 VAC)
- D. **REEL ASSEMBLIES:** The standard closer comes equipped with a single closure reel assembly.

To determine which reel assembly to order, cross-reference according to this chart.

CLOSURES ONLY	MODELS		
	J-NRP & K-NRP	JM-NRP & KM57-NRP	JW-NRP, KW-NRP, Z-NRP, & Z90-NRP
No Printer	Z8065016	Z8065066	Z8065019
Low Profile No Printer	Z8065018	Z8065068	Z8065021
874 Printer	Z8065017	Z8065067	Z8065020
Low Profile 874 Printer	Z8065018	Z8065068	Z8065021

Figure 1.6

Label reel assemblies and additional options must be ordered separately, see "Additional Options".

- E. **EXAMPLE ORDER:** "Type 865A Model AK-NRP-R. To be mounted on a VOLMPACK® WBRI Bagger. 115 VAC. Ship with Z8065017 Kit."

## ADDITIONAL OPTIONS

CLOSURE LABELS ONLY	MODELS (1)			
	J-NRP & (2) K-NRP	JM-NRP & KM57-NRP	Z-NRP	LABEL CFJ
No Printer	Z8065022	Z8065049	Z8065049	Z8065129
Low Profile No Printer	Z8065024	Z8065051	Z8065051	Z8065131
Low profile 874 Printer	Z8065024	Z8065051	Z8065051	Z8065131
874 Printer	Z8065023	Z8065050	Z8065050	Z8065130
Spare reel cassette	08-005386	08-005429	08-005429	08-005211

Figure 1.7

## FOOTNOTES

- (1) See the Type / Model chart for appropriate closure-labels.
- (2) Excludes CFJ label.

### Optional Stands:

- Z8065025 Kit - Work Stand
- Z8065128 Kit - Stand - Table Top

### Optional spare parts kit for on-hand replacement parts:

- Z8065086 Kit - Spare Parts - For all models except models "G", Z-NRP or Z90-NRP closers.

- Z8065109 Kit - Spare Parts - For all models Z-NRP and Z90-NRP. Not for use with model "G" closers.

## A. POWER REQUIREMENTS:

The 865 bag closer is wired to a specific voltage of 110 - 120VAC or 200 - 250VAC. Voltage needs should be determined when the machinery order is placed. Motor voltage requirements can be changed simply by changing the incoming power supply cord. Also solenoid jumpers must be changed to match incoming voltage. Refer to the Wiring Diagram - Section VIII for details on wiring.

## B. INSTALLING THE CLOSING HEAD:

As a new closer is unpacked, note that the electrical box has been removed from the mounting bracket. Mounting screws for the electrical box are located in the mounting holes of the mounting bracket (P.N 08-004262 R or L). Refer to page 7.20 and 7.21 of this manual to locate the mounting bracket.

The following considerations are best determined before installation begins.

1. Mount the closer so the centerline of the closer's feedbelts are on the centerline of the bag path.

NOTE: For some installations, existing equipment attached to the bagger frame may impair the desired centering of the closing head to the path of the bag. A slight misalignment of this centerline should not affect the closer's abilities.

2. When selecting a mounting position for the closer, check to see that moving parts in the area will clear the closing head and not contact the closer at any time.
3. Set the closer height so the product being closed will pass under the closer freely, allowing enough bag neck above the product for closing. Refer to bag length formulas located in the Appendix Section at the end of this manual to determine proper bag lengths.

## C. PACKAGE TIGHTNESS:

Bag tightness is controlled by the height of the closing head in relation to the bag being closed.

1. Move the closer up, from the product if the package is too tight.
2. Move the closer down toward the product when a tighter package is needed.

## D. CLOSER MOUNTED TO AUTOMATIC BAGGER:

Timing between the bagger and closer is important. The bagger must release the bag just as the closer grabs it and carries it through the closing cycle. If the bagger holds onto the bag as the closer feedbelts grab it, the bagneck can be damaged and /or the bagneck may not be completely inserted into the closure.

1. Set the bagger to release the bag as the closer feedbelts grab the leading edge of the bag and begin taking it into the feedbelts for closing.

Slowly cycle the system to verify the adjustment.

2. Adjust the speed of the closer to match the speed of the bagger's bag transfer mechanism. Observe the belt speed of the conveyor. Do not let the top of the bag lag behind or overrun the bag itself. With the release and pickup correctly matched, a smooth transfer can be seen between the bagger and closer.

NOTE: If the closer is running faster than the bagger, the closer will pull the bag neck in before the bagger releases it. The release time of the bagger and the speed of the closer are closely related. Taking time to match these two settings will result in smooth operation and a cleanly closed and undamaged package.



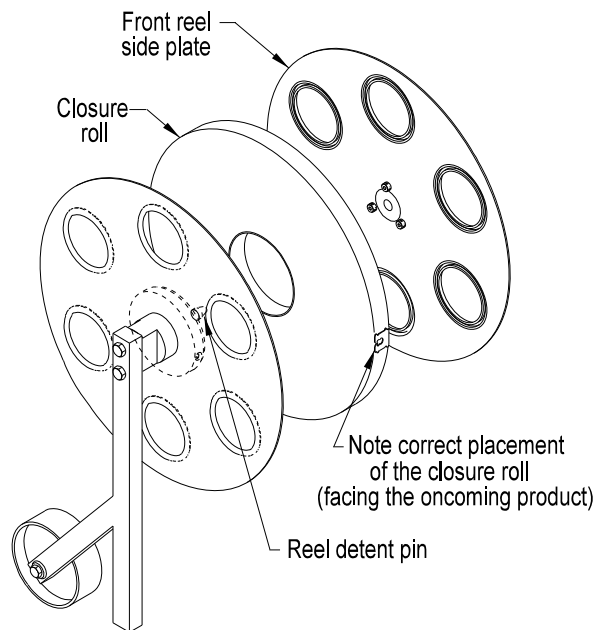


Figure 3.1

### A. MOUNTING CLOSURE ROLL: Figure 3.1

1. Grasp the reel knob located on the front reel side plate and pull the outside reel plate off the reel detent pin.
2. Mount a roll of closures on the reel hub bearing. (Closures must always be mounted with the closure opening facing the oncoming product).
3. Replace the reel side plate.

### B. MOUNTING CLOSURE-LABEL ROLL: Figure 3.2

1. Release the front latch located at the center of the front reel plate and remove the label reel cassette from closer.
2. Release the two latches located on the back side of the cassette assembly and separate the cassette.

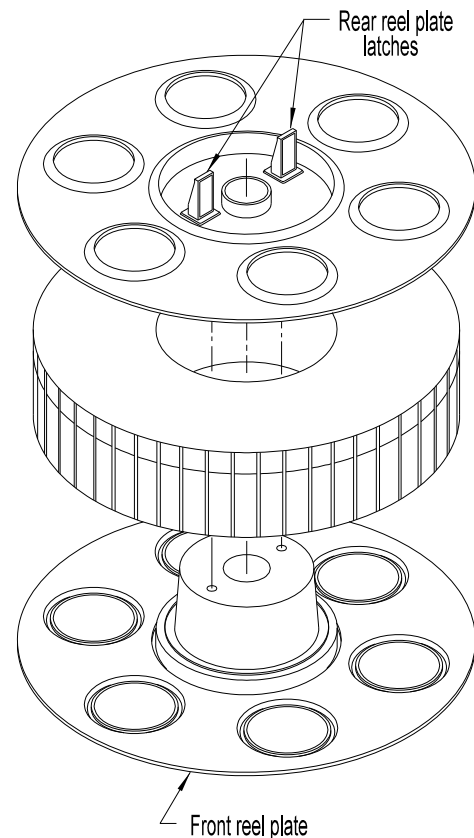


Figure 3.2

3. Remove and discard closure-label core, and reload with a new roll of closure-labels. (Closure-labels must always be mounted with the closure opening facing the oncoming product).
4. Replace the reel plate and press the two latches down to lock the cassette together.
5. Slide the full cassette onto the label reel axle and press the locking latch down to secure the cassette to the axle.

**NOTE:** It is recommended that a multiple number of reel cassettes be used for faster installation of closure-labels, or for storage of partially used rolls.

# SECTION III Operation

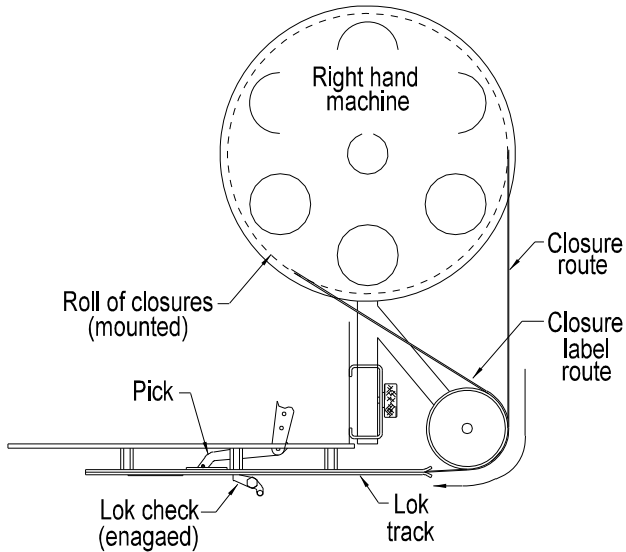


Figure 3.3

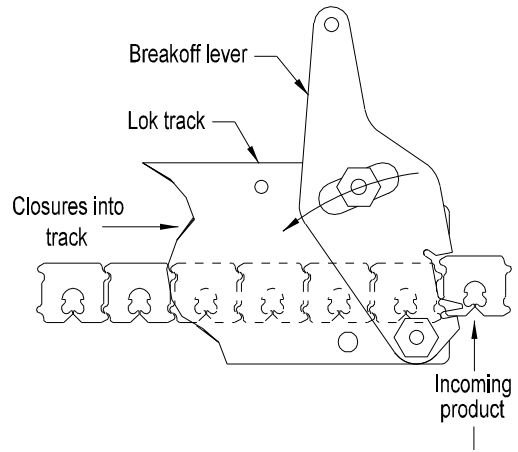
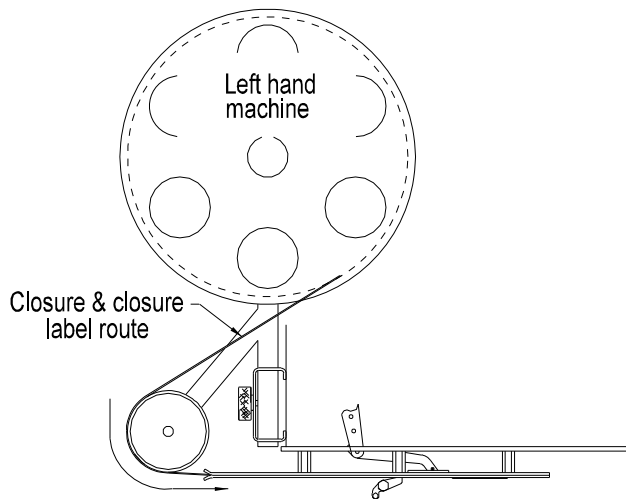


Figure 3.4  
(track view from top of machine)

### C. FEEDING CLOSURES INTO LOK TRACK: Figure 3.3

1. Remove tape from the roll of closures.
2. Insert the free end of closure strip into the slot of the lok track.

**NOTE: CLOSURE OPENING MUST FACE THE ONCOMING PRODUCT. THE NRP SERIES CLOSURE STRIP MUST BE INSERTED AS SHOWN IN FIGURE 3.4 AND 3.5. NOTE THE BACK OF THE WEB OF THE END CLOSURE IS FREE TO EXIT PAST THE REMAINING CLOSURE STRIP.**

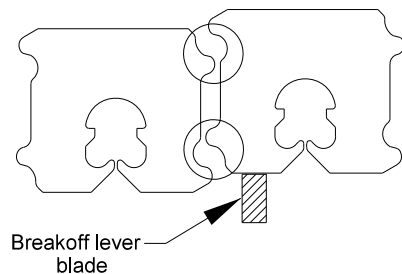


Figure 3.5

3. Push the closures into the track until the end of the strip stops. At this point the closures will be against the lok pick. Make sure the lok check is in the slot between the closures, in the closed (engaged) position.

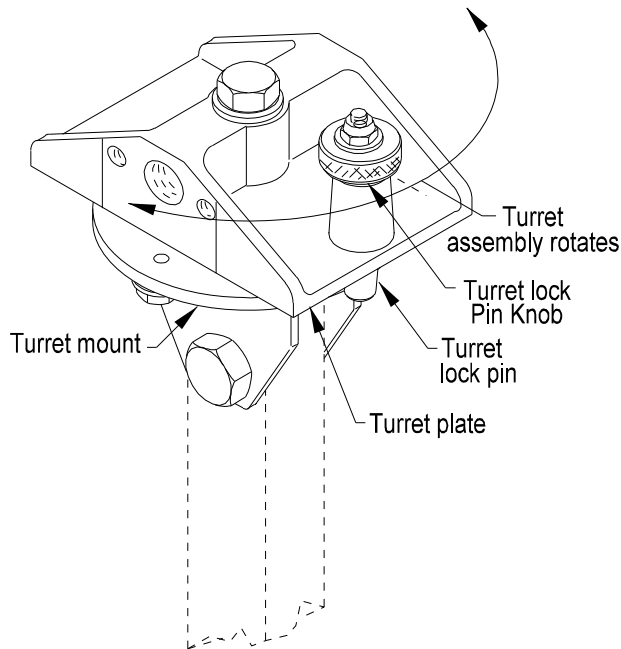


Figure 3.6

4. Press and release the manual cycle button to automatically advance the closures into a ready-to-close position. Continue to cycle until there is a closure in the closing position.

**WARNING:** IT IS ADVISABLE TO MANUALLY INSERT A BAG TO BREAK OFF AND REMOVE CLOSURES FROM THE TRACK. WITHOUT A BAG TO TAKE AWAY THE CLOSURE(S), JAMMING CAN OCCUR DUE TO CLOSURES STACKING UP AT THE END OF THE LOK TRACK.

#### D. TURRET ASSEMBLY : Figure 3.6

The turret is held in position by the turret lock pin located in the turret mount and locking into a slot in the turret plate. To change from closures to closure labels, lift the turret lock pin knob until it clears the turret mount, allowing the turret to rotate. Turn the turret until the lock pin drops into the other slot in the turret mount.

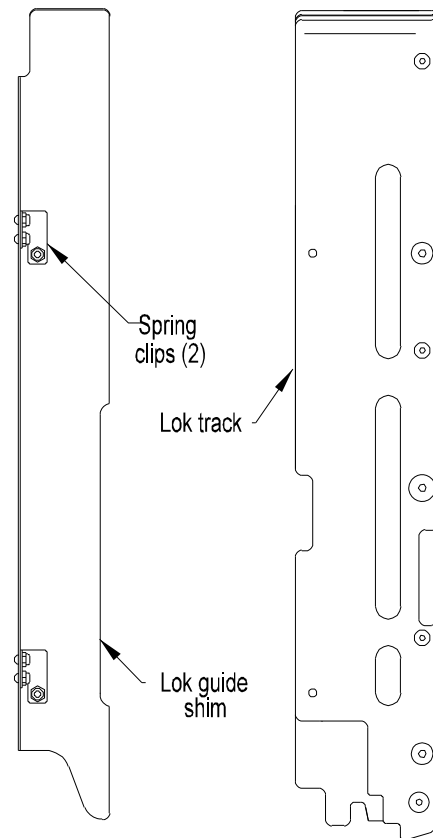


Figure 3.7

#### E. LOK TRACK SHIM: Figure 3.7

The lok track shim is required only when closures are being used. The shim must be removed when using closure-labels. The shim is held in the track by two spring clips and can easily be removed by hand. Failure to replace the shim when closures are used can result in closures being dislodged from lok track. **There is no shim used on JW-NRP and KW-NRP machines.**

# SECTION III

## Operation

### F. CHANGING FROM CLOSURES TO CLOSURE-LABELS:

1. Rotate the breakoff lever by hand to break off the end closure. Flip the lok check so it is disengaged from the lok strip.
2. Pull back and down on the pick disengager lever and pull the closure strip out of the lok track.
3. Remove lok track shim. (DO NOT DISCARD).
4. Hand feed closure-labels into the lok track until they contact the lok pick. Make sure the lok check is engaged.
5. Cycle the closer feeding the closure-labels into the "ready to close" position.

### G. CHANGING FROM CLOSURE-LABELS TO CLOSURES:

1. Rotate the breakoff lever by hand to break off the end closure. Flip the lok check so it disengages from the lok strip.
2. Pull back and down on the pick disengager and pull the closure label strip out of the lok track.
3. Replace the lok track shim.
4. Feed closures into track until they contact the lok pick. Make sure the lok check is engaged
5. Cycle the closer to feed the closures into the "Ready to Close" position.



# SECTION IV Maintenance

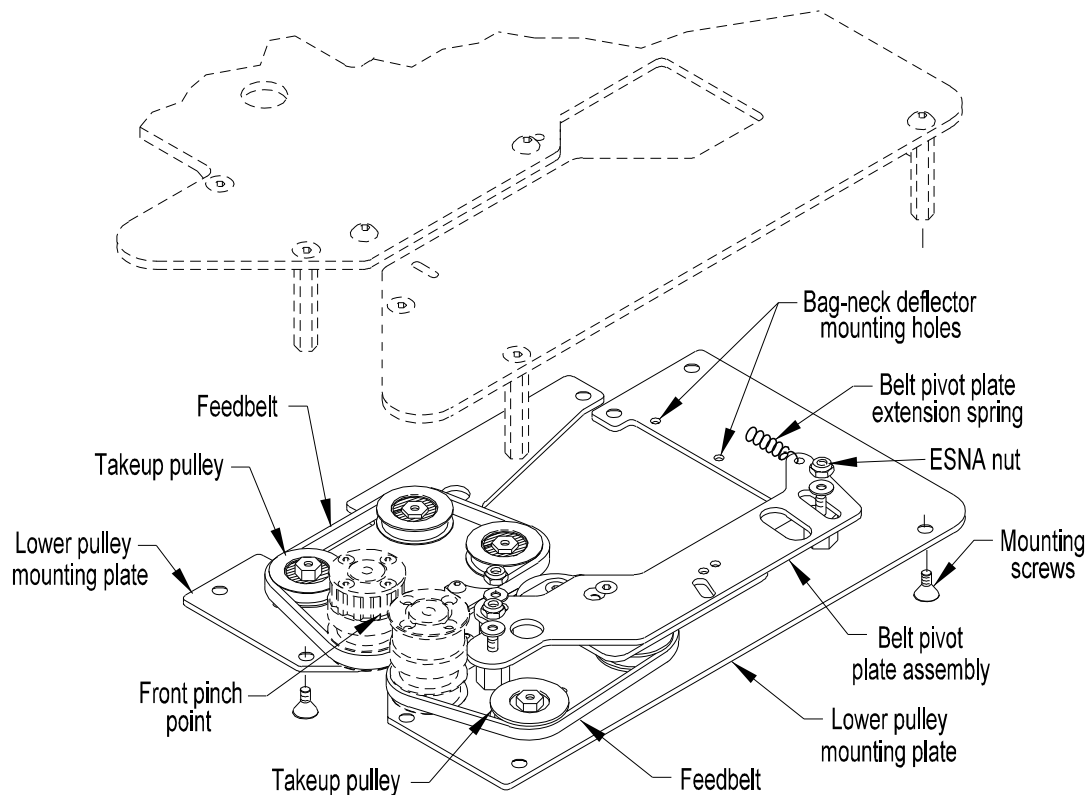


Figure 4.1

Feed belts should be checked for wear as part of the machine's preventive maintenance schedule. Belt wear can affect the quality of closing. Follow instructions below for belt replacement.

## A. REPLACE LOWER FEED BELT (DRIVE SIDE) : Figure 4.1

1. Loosen the takeup pulley to release the belt tension.
2. Remove the lower pulley mounting plate from the main frame.
3. Use the front pinch point pulley (idle side) to loosen the pinch point between the two belts, and remove the used belt.

4. Wrap the new belt around the front drive pulley.
5. Wrap the new belt around the other pulleys and remount the lower pulley mounting plate to the main frame.
6. Adjust the idle side pinch point so the top belts mesh together and tighten the pinch point adjustment pulley.

Note: Do not force the belts together. Tight belts are indicated by added vibration and or noise.

7. Adjust the tension of the new belt and tighten with the takeup pulley.

**WHEN REPLACING DRIVE BELTS, CHECK THE PULLEYS FOR FREE ROTATION. REPLACE ANY BEARING THAT DOES NOT TURN FREELY.**

# SECTION IV

## Maintenance

### **B. REPLACE LOWER FEED BELT (IDLE SIDE) :** **Figure 4.1**

1. Remove the bag-neck deflector (Not found on models C and D) and the label deflector (models A and B only) from the lower pulley mounting plate (idle side).
2. Remove the flat head mounting screws securing the lower pulley mounting plate (idle side) to the main frame.
3. Remove the screw mounting the front pinch point pulley.
4. Disconnect the belt pivot plate extension spring, models A and B only, and remove the pulley mounting plate from the main frame.
5. Locate and remove the three ESNA® nuts and nylon washers securing the belt pivot plate to the lower mounting plate. Note that these ESNA nuts are low in profile. A standard ESNA nut will present clearance problems for movement of the belt pivot plate.
6. Remove the belt pivot plate assembly and replace the belt.
7. With the new belt installed, replace the belt pivot plate assembly and nylon washers. Secure with the three ESNA nuts. Be sure the belt pivot plate pivots on its mount after the ESNA nuts are tightened. Loosen the ESNA nuts slightly, if needed, to allow the belt pivot plate to pivot.
8. Place the assembly onto the main frame. Reconnect the belt pivot plate spring, models A and B only and remount with the flat head mounting screws.

9. Adjust the idle side pinch point so the top belts mesh together and tighten the pinch point adjustment pulley.

Note: Do not force the belts together. Tight belts are indicated by added vibration and or noise.

10. Adjust tension on the new belt and tighten the takeup pulley.

### **C. REPLACE UPPER FEED BELT (DRIVE SIDE):** **Figure 4.2**

1. Remove the lower pulley mounting plate as described in part "A. Replace Lower Feed Belt Drive Side" in this section.
2. Remove the lok track from the closer main frame. Refer to part F. "Remove Lok Track From Main Frame" in this section.
3. Release drive belt tension by loosening the drive takeup pulley.
4. Loosen the front Idler gearbelt pulley, allowing the gearbelt to slide off its front pulley.
5. Slide the gearbelt off the gearbelt support rollers and the front pulley assembly.
6. Replace the gearbelt.
7. Use the drive gearbelt takeup pulley to lightly tension the gearbelt. When properly adjusted, the gearbelt will be just tight enough to take out any slack in the belt. A properly adjusted belt will increase pulley bearing life.

**WHEN REPLACING DRIVE BELTS, CHECK THE PULLEYS FOR FREE ROTATION. REPLACE ANY BEARING THAT DOES NOT TURN FREELY.**

# SECTION IV Maintenance

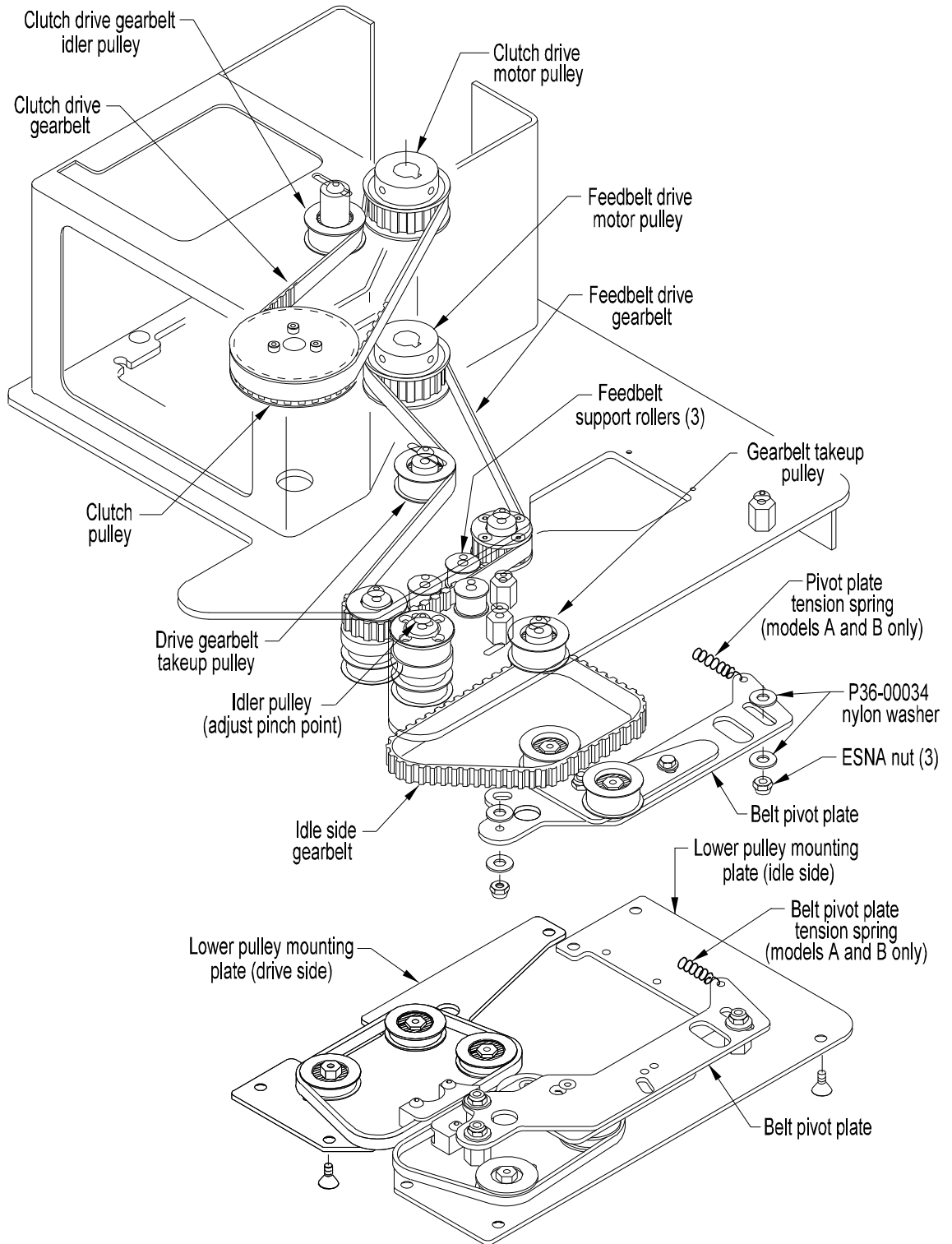


Figure 4.2

# SECTION IV Maintenance

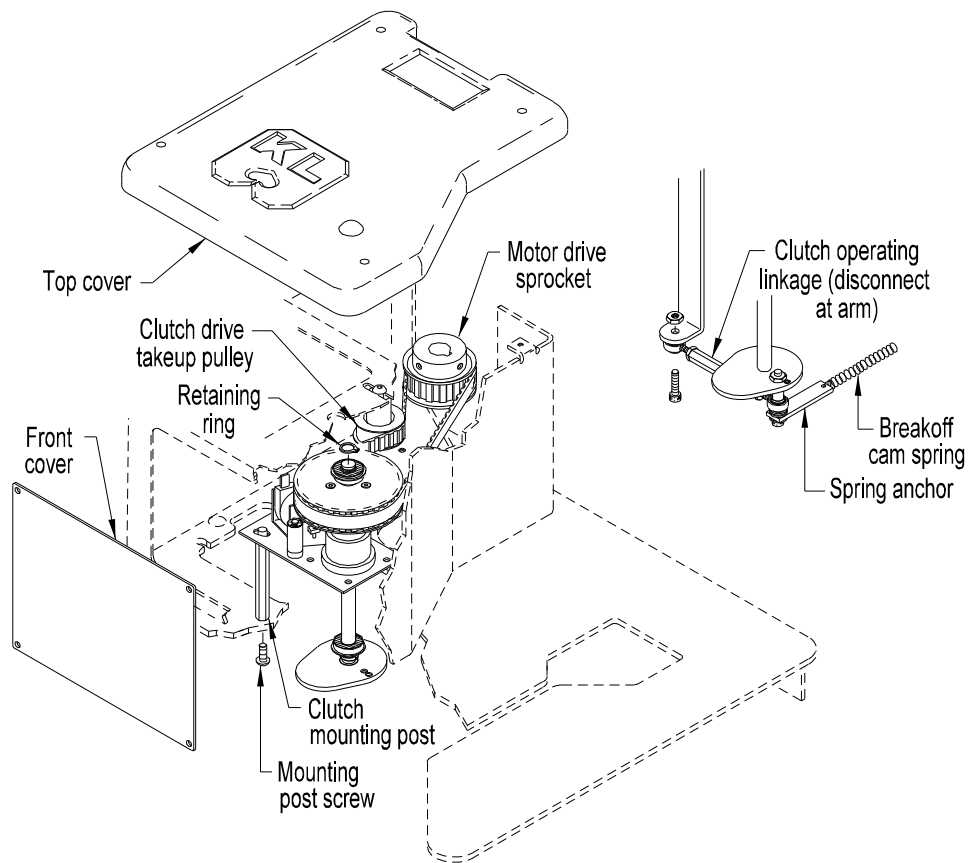


Figure 4.3

8. Reassemble the lok track and the bottom plate to the main frame.
9. Adjust the idle side pinch point so the top belts mesh together and tighten the pinch point adjustment pulley.

Note: Do not force the belts together. Tight belts are indicated by added vibration and or noise.

## D. REPLACE UPPER FEED BELT (IDLE SIDE): Figure 4.2

1. Remove the lower pulley mounting plate (idle side).
2. Disconnect the belt pivot plate tension spring (models A and B only).
3. Rotate the breakoff lever by hand to break off the end closure.

4. Locate and remove the three ESNA® nuts and nylon washers securing the upper belt pivot plate to the main frame of the closer and remove the plate.
5. Loosen the front gearbelt Idler pulley, allowing the gearbelt to slip off.
6. Replace the gearbelt and remount the belt pivot plate.
7. Adjust the idle side pinch point so the top belts mesh together and tighten the pinch point adjustment pulley.

Note: Do not force the belts together. Tight belts are indicated by added vibration and or noise.

8. Retighten the takeup pulley to tighten the new gearbelt.

## SECTION IV Maintenance

### E. REPLACE CLUTCH DRIVE GEARBELT: Figure 4.3

1. Remove the top and front covers.
2. Loosen the clutch drive gearbelt takeup pulley.
3. Disconnect the pick operating linkage at the pick shaft assembly.
4. Disconnect the breakoff cam spring.
5. Remove the retaining ring from the top of the breakoff camshaft.
6. Allow the camshaft and clutch assembly to drop down from its normal operating position.
7. Work the gearbelt from around the clutch pulley, and off the machine.
8. Install the new gearbelt in the same way as the old one was removed.
9. Remount the camshaft into the top bearing and secure it with the retaining ring. Replace the clutch mounting post.
10. Reattach the pick operating linkage at the pick arm.
11. Reconnect the breakoff cam spring.
12. Adjust belt tension and tighten the clutch drive gearbelt takeup pulley.

**WARNING: DO NOT OVERTIGHTEN THE GEARBELT. IF THE DRIVE BELT IS TOO TIGHT THE CLUTCH WILL SUFFER UNDUE WEAR.**

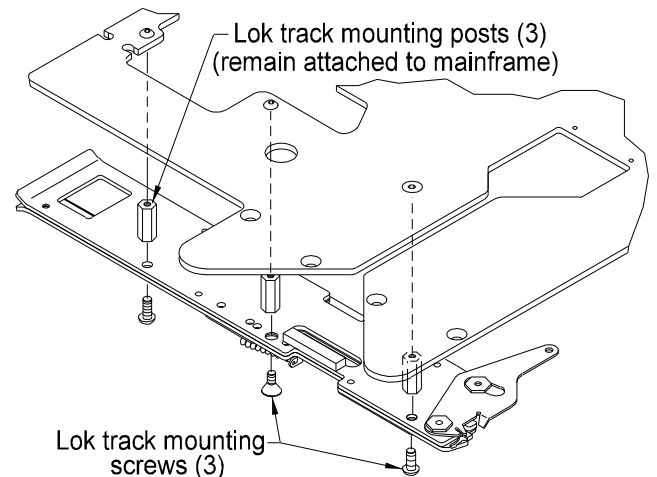


Figure 4.4

### F. REMOVE LOK TRACK FROM MAIN FRAME: Figure 4.4

The 865 lok track is easily removed from the main frame. Follow instructions below to remove the lok track:

1. Remove the lower pulley mounting plate (drive side) from closer main frame. Refer to "A" this section.
2. Disconnect the breakoff cam spring.
3. Remove the label deflector.
4. Disconnect the breakoff link from the lok breakoff lever by removing the breakoff link mount.
5. Unscrew the lok track mounting screws (3), and remove lok track from main frame.

## SECTION IV Maintenance

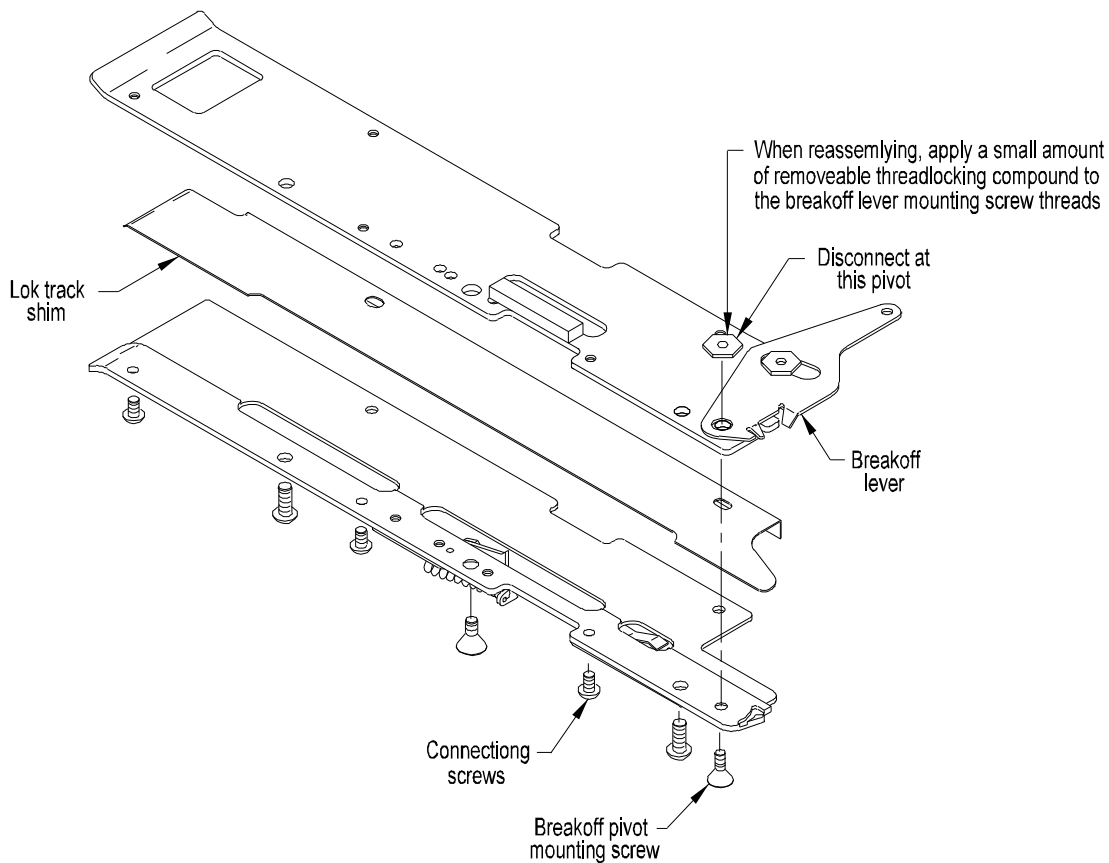


Figure 4.5

### G. DISASSEMBLE LOK TRACK: Figure 4.5

1. Remove the lok track shim if it is in place. The shim is not used when closing with closure labels. (Shim not supplied with JW-NRP or KW-NRP closure tracks).
2. Disconnect the lok breakoff lever from the lok track at the pivot side of the breakoff lever.
3. Remove the screws connecting the two halves of the lok track.
4. Clean and inspect lok track parts. The groove in the track should be clean and smooth. Any deformity in the track will impede the closure strip as it travels through the track.
5. Reverse instructions to reassemble the lok track. There are no adjustments required when reassembling the lok track. However, it is advisable that closures be run through the track to insure that the closer functions properly.

## H. MOTOR BRUSHES:

Motor brushes should be inspected every 250 hours. Certain conditions such as dusty or wet conditions can shorten brush life. Brushes should be replaced if they are shorter than 3/8" long.

1. Use a large straight blade screwdriver to remove the brush cover.
2. Remove the brush spring and inspect the spring and brush for wear as detailed above. Replace the brushes / springs if needed.

## I. \* LUBRICATION:

The following are recommended points of lubrication for the 865 closer. Use a lightweight food grade mineral oil unless otherwise specified.

1. **Pick Bearing** - Lubricate the pick bearing about once a week.
2. **Lok Check** - Lubricate lok check about once a week.
3. **Breakoff Lever** - Lubricate the breakoff Lever about once a week. (Refer to Section VII Parts Identification, Figure 7.11 to identify the lok check and breakoff lever).
4. **Belt Pivot Points** - Lubricate these points about once a month. (Refer to Figure 4.2 to identify the belt pivot plates).

\*Lubricants used for the Kwik Lok equipment line are formulated for the food processing industry. They are NSF registered as H-1 for use in food processing and packaging equipment.





# SECTION V Adjustments

**INCOMING POWER SHOULD BE DISCONNECTED BEFORE PERFORMING THE FOLLOWING ADJUSTMENTS UNLESS OTHERWISE INSTRUCTED.**

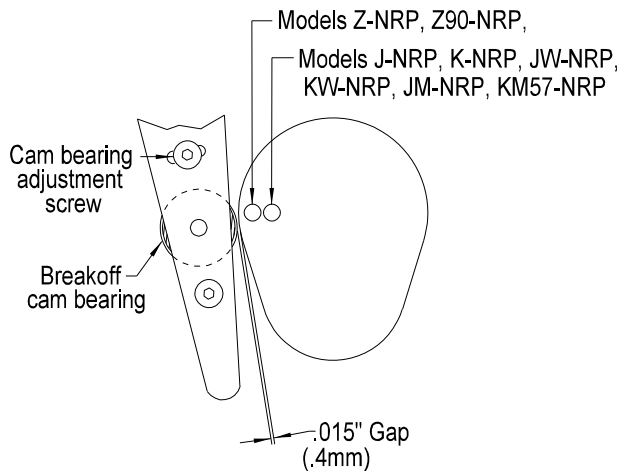
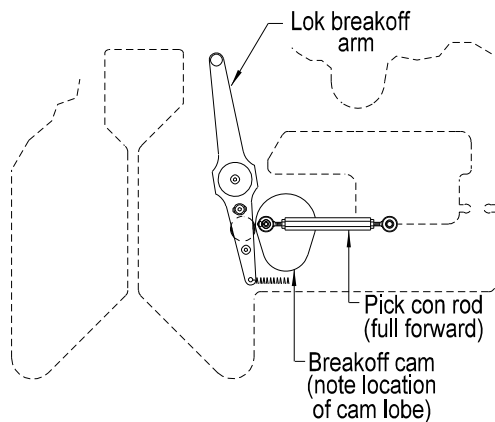


Figure 5.1  
(viewed from underside)

## A. BREAKOFF CAM POSITION: Figures 5.1 and 5.2

**PROPER ADJUSTMENT:** The breakoff cam is properly positioned when the pick con rod assembly is full forward in its stroke with the closer in neutral.

Adjust as follows:

1. Disconnect the closer power cord.
2. Remove the top cover and side cover to expose the clutch.
3. Actuate the clutch by hand. Manually cycle the closer until the breakoff cam is in the position shown. (Figure 5.1)

**NOTE:** To manually cycle the printer, the clutch must be tripped. Do so by depressing the clutch actuator arm. Rotate the clutch pulley to cycle. The pulley will rotate in one direction only, due to the clutch anti-backup feature.

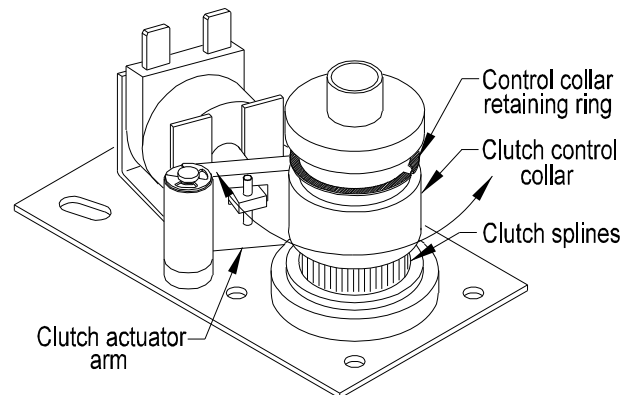


Figure 5.2

# SECTION V Adjustments

4. Slide the clutch control collar retaining ring upwards, followed by the control collar itself. (Figure 5.2)
5. Rotate the control collar until it contacts the clutch actuator arm and then slide the collar back into position over the clutch splines.
6. Cycle the closer manually, checking to see that the breakoff cam is in the proper position at the end of the closing cycle (neutral). If not, repeat step 4.
7. Return the retaining ring to its operating position and re-mount covers.

## B. BREAKOFF ARM UNIT: Figure 5.1

PROPER ADJUSTMENT: With the closer in neutral and the breakoff arm properly adjusted, there should be a slight gap of approximately .015" (.4mm) between the breakoff bearing and the breakoff cam.

Adjust as follows:

1. Check to see that the closer is in neutral.
2. Loosen the cam bearing adjustment screws and rotate the bearing toward or away from the breakoff cam until the desired gap is achieved.
3. Retighten screws.

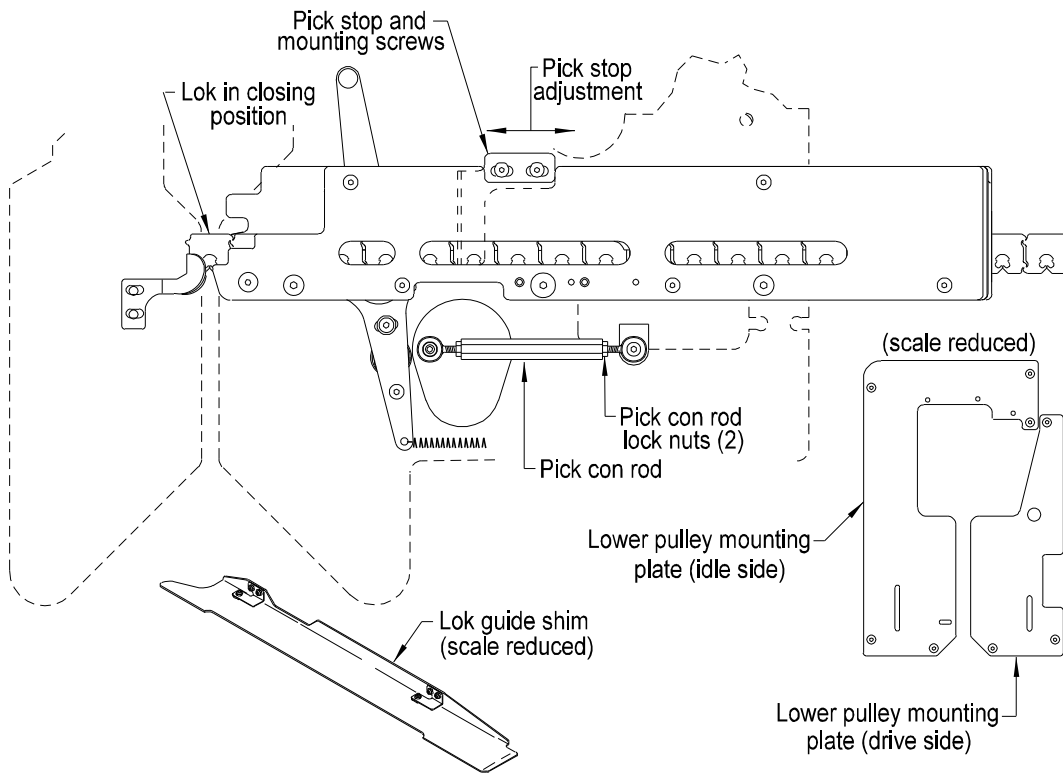


Figure 5.3  
(viewed from underside)

# SECTION V Adjustments

## C. LOK PICK AND CLOSURE POSITION: Figures 5.3 - 5.5

**PROPER ADJUSTMENT:** The lok pick is properly adjusted when it positions the closure as indicated in Figures 5.4 and 5.5 when the closer is in neutral.

Be sure the closer is in the neutral position when making the following adjustments.

Adjust as follows:

1. Remove the lower pulley mounting plate - idle side (to better view the end of the lok track).
2. Remove the lok guide shim to gain access to the pick stop mounting screws.
3. Loosen the pick stop mounting screws and slide the pick stop away from pick. (Figure 5.7)

4. Cycle the closure strip through the lok track until the closure at end of the strip is in closing position. (Figure 5.4)
5. Loosen the pick con rod locking nuts and rotate con rod in the desired direction. Rotating the con rod changes position of the lok pick, and so repositions the closure strip in the lok track. Continue to adjust until the last closure in the strip is in the closing position shown. (Figure 5.5) Note the lok track covers about one third the slope of the closure jaw. (circled)
6. Cycle closer several times, checking the closure position. When satisfied, retighten the con rod locking nuts. Be sure that after tightening, the rod ends work freely and have not been placed in a bind.
7. Slide the pick stop until it contacts the pick and retighten the mounting screws.
8. Replace lok guide shim and lower pulley mounting plate.

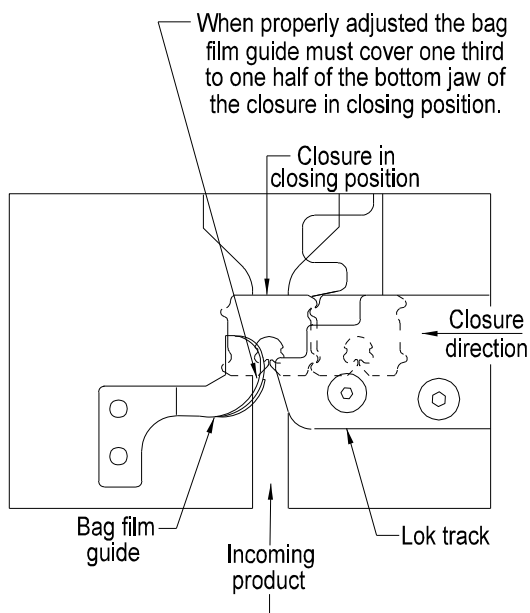


Figure 5.4  
(viewed from underside)

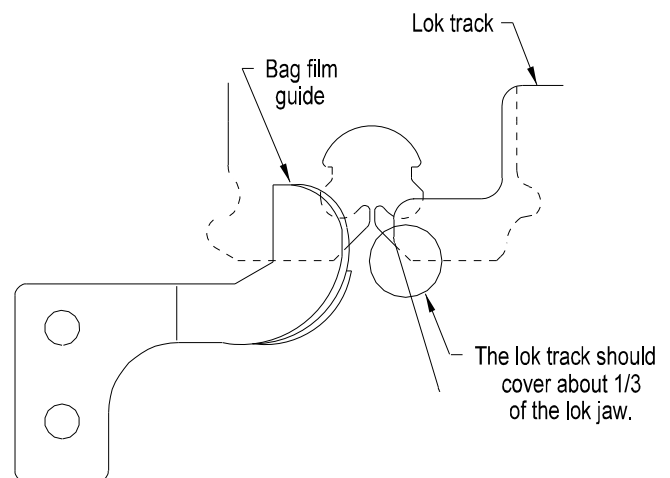


Figure 5.5

# SECTION V Adjustments

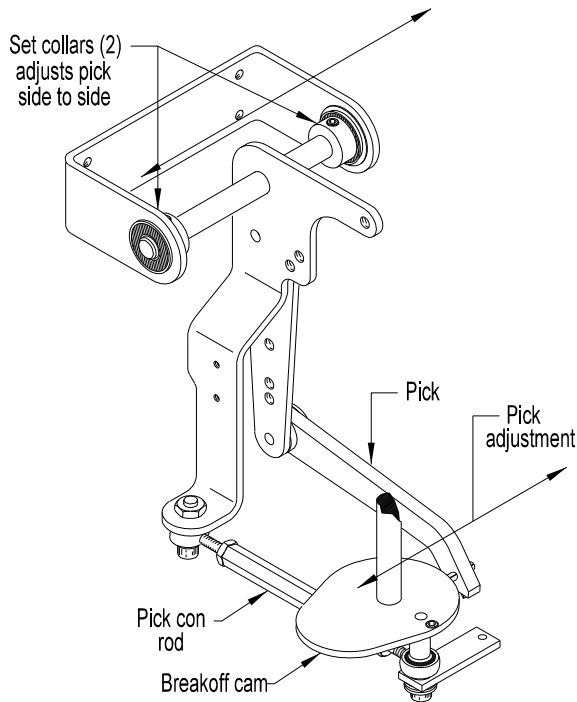


Figure 5.6

## D. LOK PICK: Figures 5.6 and 5.7

**PROPER ADJUSTMENT:** The lok pick should engage the closure strip near the back web of the closure. But not so close to that web as to let the pick slide over the web.

Adjust as follows:

1. Loosen the set collars. (Figure 5.6)
2. Slide the pick shaft assembly accordingly. (Figures 5.6 and 5.7)
3. Retighten the set collars, insuring that the wave washers between set collars and bearings are collapsed or partially so.

## E. LOK CHECK:

**PROPER ADJUSTMENT:** The lok check is adjusted correctly when it keeps the closures from backing up in the lok track as the pick moves through its back stroke. Figure 5.7, 5.8 and 5.9 detail correct pick / lok check position with closer in neutral.

**NOTE:** The closures can back up slightly when the Pick moves.

Lok check adjustment for **Models Z-NRP and Z90-NRP:**  
**Figure 5.7**

1. Insure that the closer is in neutral.
2. Loosen the lok check pivot and slide the lok check in the desired direction. The point of the check should be slightly above the middle of the notch between the two closures.

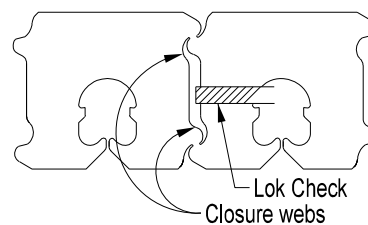
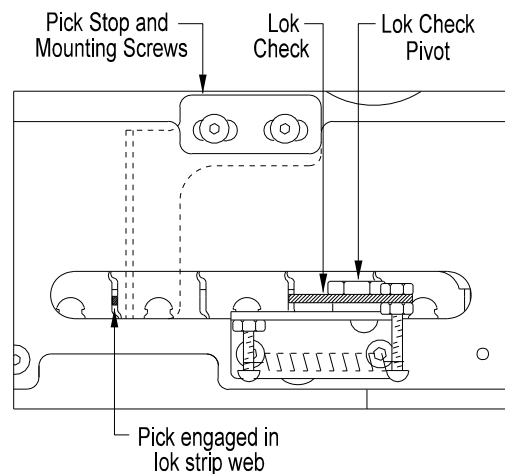


Figure 5.7

# SECTION V Adjustments

3. Retighten the lok check pivot and cycle the closer several times while observing the position of the lok check.

Lok check adjustment for **Model J-NRP, K-NRP, JM-NRP, KM57-NRP, JW-NRP, and KW-NRP closures: Figures 5.8 and 5.9**

1. Insure that the closer is in neutral.

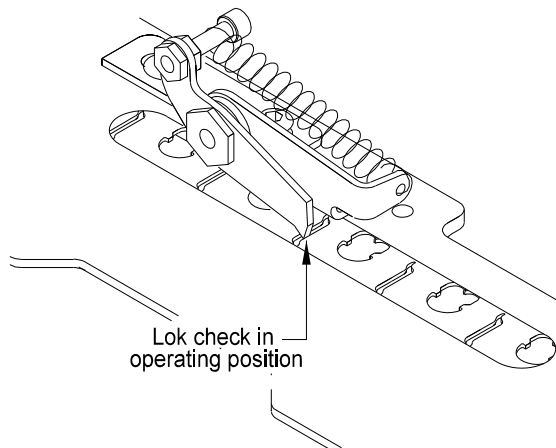


Figure 5.8

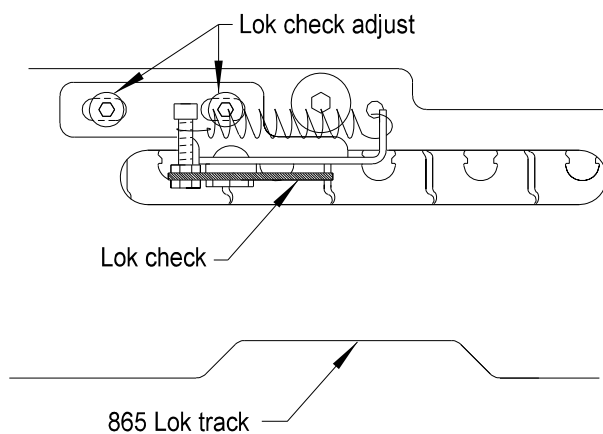


Figure 5.9

2. Loosen the lok check mount and slide it in the desired direction. The point of the check should be slightly above the middle of the notch between the two closures.
3. Retighten the lok check pivot mount and cycle the closer several times observing the position of the lok check.

## F. BAG FILM GUIDE: Figures 5.10 - 5.13

**PROPER ADJUSTMENT:** The bag film guide provides two functions. When properly set it protects the bag film from contacting the edge of the closure opening (Note encircled area Figure 5.11), and The film guide also cams the jaws of the closure open to assist in feeding bag film into the closure (Figure 5.11). The bag film guide is properly adjusted when in the position shown (Figures 5.10, 5.11).

Adjust as follows:

1. Insure that the closer is in neutral.
2. Loosen the bag film guide mounting block screws (located on top of main frame). Position the bag film guide as shown in (Figure 5.10 and 5.11) and retighten screws.
3. Check for clearance between the front edge of the closure and the inside edge of the bag film guide. Set clearance to  $.015''+$  (0.4mm). The film guide can be tapped lightly forward or back to make this adjustment.
4. Check the "lok cam" dimension. This is preset by design but can be incorrect if the film guide has been bent. Re-bend the part until the desired "lok cam" is achieved. It is recommended the closure cam be set at  $.030''$  (0.8mm) maximum (Figures 5.12 and 5.13).

# SECTION V Adjustments

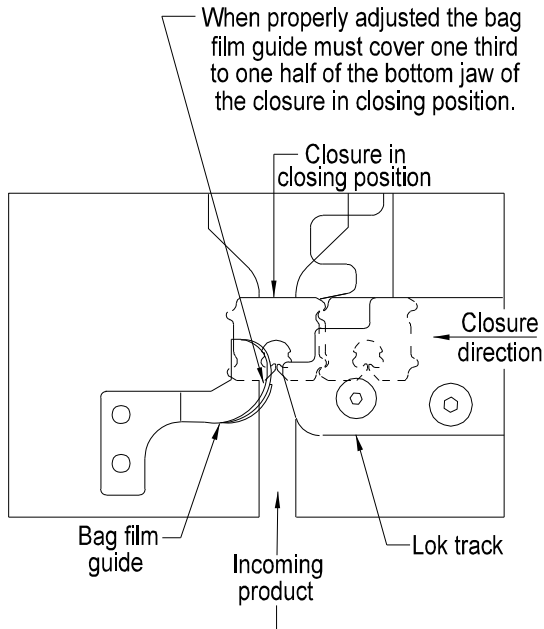


Figure 5.10

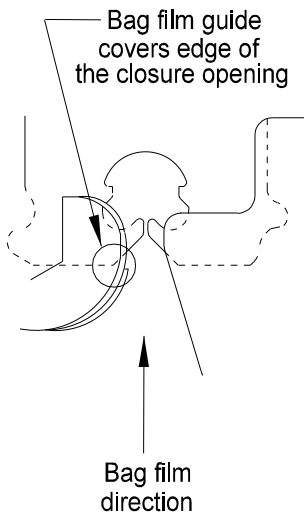


Figure 5.11

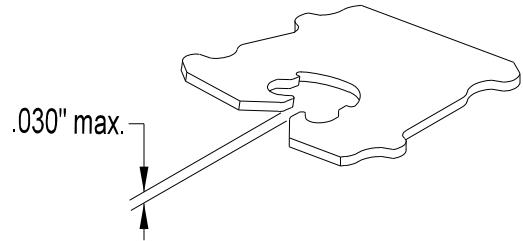


Figure 5.12

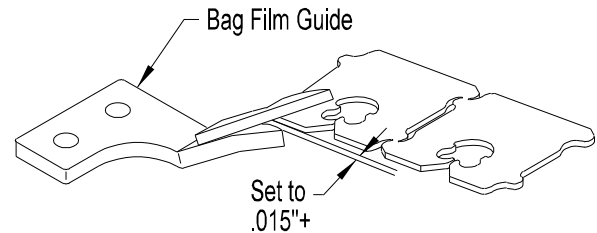


Figure 5.13

## G. CLUTCH ACTUATING SWITCH: Figure 5.14

**PROPER ADJUSTMENT:** The closer cycles when the actuator lever is released by the trailing edge of the bag. The lever returns to its neutral position against the lever stop screw. The switch should actuate the clutch solenoid as it returns to the neutral position and is .090" (2.3mm) from the lever stop screw.

**WARNING:** Do not use magnetic tools or devices in this area when adjusting the actuating switch. False results can occur.

Adjust as follows:

1. Remove the lower pulley mounting plate (drive side) exposing the actuator lever, switch and stop.

# SECTION V Adjustments

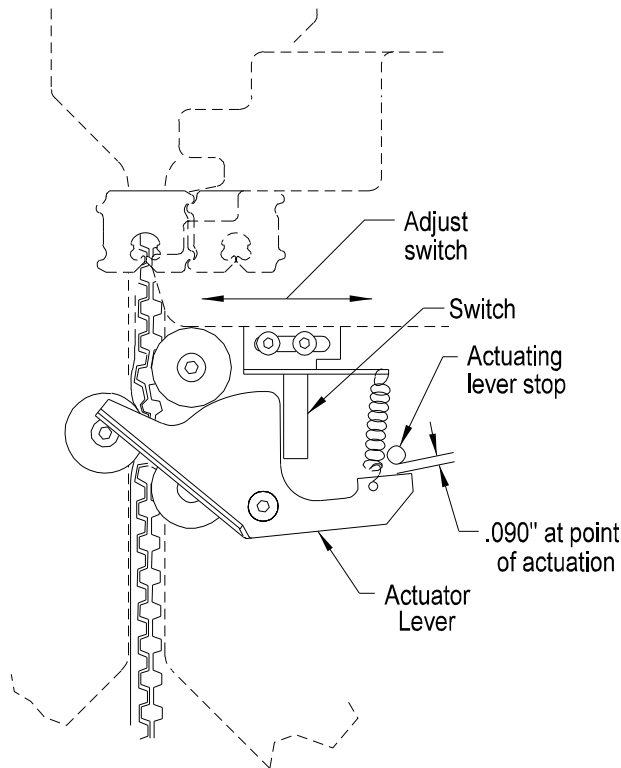


Figure 5.14  
(viewed from underside)

2. Turn the closer on and set the speed control to zero. In this state with no parts or belts in motion, the actuator switch can be rotated by hand without fear of injury.
3. Rotate the actuator lever from its neutral position against the stop through its arc until it contacts the switch bracket. By doing this you can be sure the switch field has been broken "opened" by the lever.

4. Allow the return spring to slowly bring the lever back against the stop, closing the switch contacts. Listen for a click from the clutch solenoid indicating the switch actuated the solenoid. With the actuating switch properly adjusted to the actuating lever, the point of solenoid actuation will occur as the lever is returning to the stop but is still .090" (2.3mm) from touching the stop.

Note: A measurement of .090" (2.3mm) is equal to the thickness of three medium duty closures (series J-NRP, JW-NRP or JM-NRP) or to the thickness of two heavy duty closures (series K-NRP, KW-NRP, KM-NRP, or Z-NRP). The correct distance from the actuator lever to the lever stop can be measured using this method.

5. Check the adjustment by rotating the actuator lever from its neutral position until the lever tip aligns with the center of the feed belts. This is the point from which the bag neck releases the lever. At this point the lever must be far enough into the switch for its contacts to open.

## H. SPEED CONTROL:

Adjust the speed of the closer to match the speed of the bagger's bag transfer mechanism. Observe the belt speed of the conveyor. Do not let the top of the bag lag behind or overrun the bottom of the bag. With the release and pickup correctly matched, a smooth product transfer can be seen between the bagger and closer.

If the closer is running at a faster speed than the bagger, the closer will pull the bag neck in before the bagger releases it. The release time of the bagger and the speed of the closer are closely related. Taking time to match these two settings will result in a smooth operation and a cleanly closed package.

# SECTION V Adjustments

## Lower Belt Adjustments

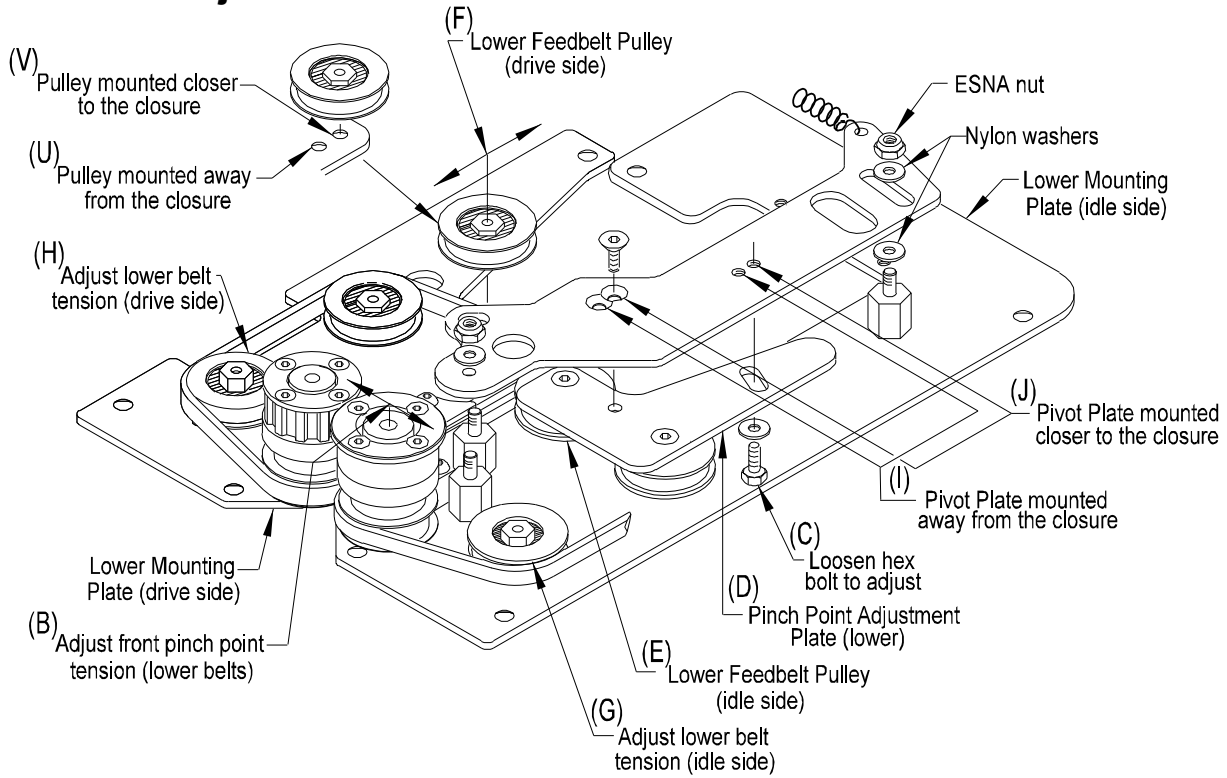


Figure 5.15

## Upper Belt Adjustments

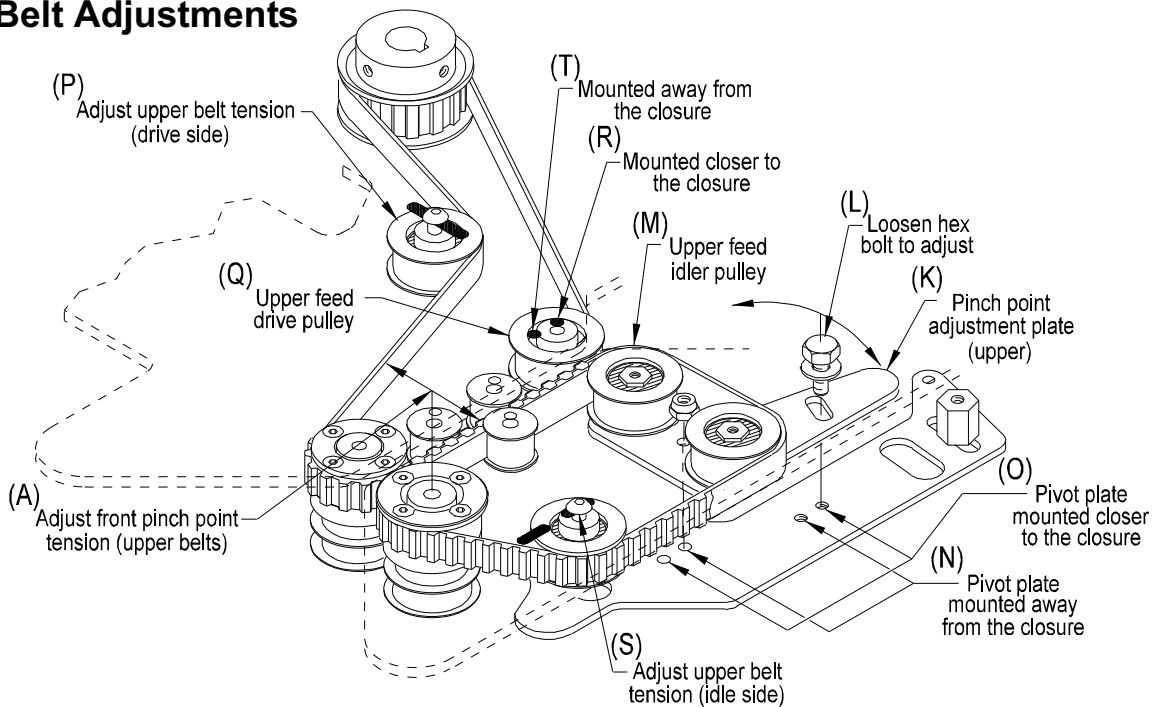


Figure 5.16



# SECTION V Adjustments

## I. FEED BELT POSITION:

### Figure 5.15

**PROPER ADJUSTMENT:** The position of the feed belts and pulleys to the closure opening affect the ability of the machine to completely close the bag without excessive marking or tearing of the bag film. Belt position in relation to the closure location can be changed to improve closing quality. The following adjustments deal with the position of the feedbelts to the closure. Test each adjustment as it is made.

### **Bag not completely closed: Figures 5.15 and 5.16**

1. Check the belt contact at the front of the closer. The upper drive belts should mesh and contact lightly together. Upper (A) and lower (B) belt contact are set by adjusting the front rollers. Belt tension is adjusted at points (G,H,P and S). Note the slots for adjustment.
2. Remove the side cover.
3. Loosen the hex bolt (C).
4. Rotate plate (D) outward toward the side of the closer frame and retighten the hex bolt. As the plate pivots, the pulley (E) and the lower belt move to cover more of the closure.
5. Replace the side cover and test results.
6. Adjust the upper plate if needed. Loosen hex bolt (L).
7. Rotate plate (K) outward toward the side of the closer frame and retighten the hex bolt. As the plate pivots the pulley (M) and the upper belt move to cover more of the closure.
8. Replace the side cover and test results.
9. If a slight amount of material is left out of the closure, check the mounting location of plate (D) and pulley (F). If they are mounted in position (I and U) remove and remount them in position (J and V) allowing the drive belts to cover more of the closure. Plate (D) and pulley (F) must be moved together into the new mounting position. Test results.
10. If material is still left out of the closure opening, plate (K) and pulley (Q) of the top belts can be relocated to position (O and R) setting the upper belts farther over the closure. The lok track may have to be removed to get access to the upper belts.  
  
Plate (K) can be readjusted after it has been relocated to further improve the belt location to the closure.

If 1 through 10 do not seem to correct the problem, refer to Section VI Trouble Shooting for more help.

### **Bag film tear after closing: Figures 5.15 and 5.16**

#### **Tear above closure.**

A tear above the closure is corrected with adjustments to the top belt assemblies

1. Remove the side cover around the feedbelts.
2. Loosen the hex bolt (L) and rotate plate (K) into the closer frame. The pulley (M) and the belt move away from the closure. Replace side cover and test.
3. If the tear remains, check the mounting locations of plate (K) and pulley (Q). If they are located at positions (O & R), remount them to positions (N & T). Plate (K) and pulley (Q) must be moved together into the new mounting position. The lok track may have to be removed allowing access to the upper belts.

# SECTION V

## Adjustments

Relocate pulley (S) to the front mounting slot, and adjust the belt tension. The new position moves the pulleys and belts away from the closure.

Plate (K) can be readjusted after it has been relocated to further improve the belt location to the closure.

4. Replace the lok track and the side cover and test. If a small tear remains refer to Section VI Trouble Shooting.

### **Tear below closure.**

A tear below the closure is corrected with adjustments to the lower belt assemblies.

1. Remove the side cover.
2. Loosen the hex bolt (C) and rotate plate (D) into the closer frame. The pulley (E) and the belt moves away from the closure. Replace cover and test.
3. If the tear remains, check the mounting locations of plate (D) and pulley (F). If they are located at position (J and V), remount them to position (I and U). The new position moves the pulleys and lower belts away from the closure.

Plate (D) can be readjusted after it has been relocated to further improve closing.

### **J. CLUTCH SOLENOID ADJUSTMENT: Figure 5.17 and 5.18**

For proper clutch actuation, the clutch solenoid must be set correctly. Check and adjust as follows.

1. Check the clutch actuation.

- a. Rotate the clutch until the clutch stop (E) contacts the actuating lever (C).
  - b. Manually trip the actuating lever to release the clutch stop.
  - c. Rotate the clutch until the clutch stop is under the edge of the actuating lever (Figure 5.18)
  - d. Press on the clutch control collar at point (H), pressing the collar toward the solenoid coil (D).
  - e. Press down on the end of the solenoid plunger (F) pressing it into the solenoid as far as possible.
  - f. Proper clearance between the actuating lever and the clutch stop must be between .010" - .030" as shown in Figure 5.18.
2. To adjust the clutch actuating lever.
    - a. Loosen the two solenoid mounting screws (G) located on the back of the clutch mounting plate.
    - b. Pivot the solenoid assembly so the end of the solenoid plunger is as far away from the actuating lever as possible. Figure 5.16.
    - c. Press the control collar at point (H) to minimize the distance between the clutch stop and the clutch solenoid.
    - d. Press on the end of the solenoid plunger and fully insert it into the solenoid.
    - e. Move the solenoid until the proper gap exists between the clutch stop and the actuating lever. Tighten the solenoid mounting screws and again check the clearance.

# SECTION V Adjustments

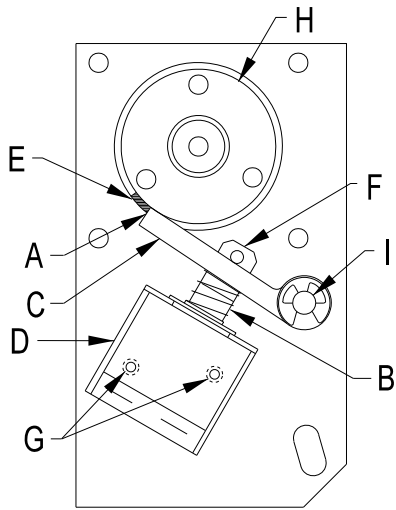


Figure 5.17

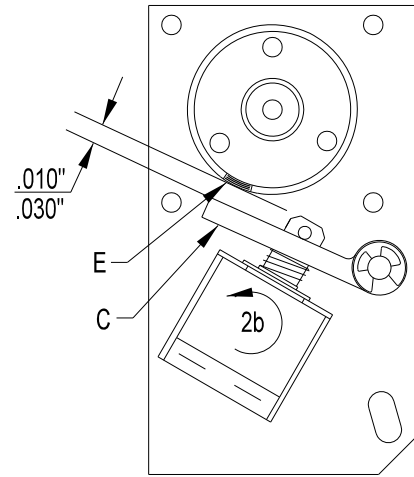


Figure 5.18

- A - Stop Point
- B - Solenoid Plunger
- C - Actuating Lever
- D - Solenoid Coil
- E - Clutch Stop
- F - Plunger Press Point
- G - Solenoid Mounting  
Screws
- H - Control Collar  
Press Point
- I - Actuating Lever  
Pivot



# SECTION VI Trouble Shooting

PROBLEM	SYMPTOM	CORRECTION
A. Feed belts do not turn.	1) Fuse blown.	1) Replace fuse. If the fuse continues to blow, either the motor controller requires replacement or the motor requires service.
<hr/>		
B. Clutch does not cycle.	1) Actuator lever not returning to the neutral position.	1) Check to see that the actuator lever return spring is connected.
	2) Clutch actuating switch out of position.	2) Adjust as described in Section V, part G.
	3) Electrical malfunction.	3) Follow procedure under Trouble Shooting Solenoid Module / Clutch Actuating Solenoid. Page 6.4
<hr/>		
C. Closures do not advance.	1) Lok check not engaged or adjusted properly.	1) Engage. Adjust as described in Section V, part E.
	2) Closures jammed at lok track exit.	2) Clear jammed closures. Jamming occurs when the machine is cycled without having a bag present or when the bag film guide is bent or misadjusted.
	3) Closures jamming against breakoff lever.	3) Either parts are missing, or breakoff lever requires adjusting. See Section V, part B. Check for debris around the breakoff mount.
	4) Pick out of position and riding on lok web.	4) Adjust lok pick as described in Section V part D.

# SECTION VI

## Trouble Shooting

PROBLEM	SYMPTOM	CORRECTION
D. Closure will not break off.	1) Clutch actuating switch is not being tripped.	1) Re-adjust clutch actuating switch as described in Section V, part G.
	2) Breakoff lever misadjusted or broken.	2) Adjust or replace as required. See Section V, part B.
	3) Loks slipping out of track.	3) Insure that lok guide shim is in place when running closures.
	4) Using medium duty closures in a heavy duty lok track.	4) Use correct closures.
	5) Pick stop out of position. (Allowing closure to be drawn partially out of the lok track by the bag.)	5) Adjust the pick stop so it contacts the pick. Refer to Section V adjustments parts D and E.
	6) Closures misfeed into lok track.	6) Refer to Section III Operation part C.
E. Multiple closures on bag.	1) Loks slipping out of track.	1) Insure that lok guide shim is in place when running closures.
	2) Using medium duty closures in a heavy duty lok track.	2) Use correct closures.
F. Multiple closure-labels on bag.	1) Discharge end of lok track is distorted (gap between lok track halves is too wide).	1) Close up gap where label extends out of track.
G. Bag is not completely fed into the closure opening.	1) Feed belt speed is incorrect.	1) a) Increase speed. (Break-off actuates before all the bag film enters closures.) b) Decrease speed. (Top of bag is being pulled way ahead of bottom of bag.)
	2) Loks slipping out of track.	2) Insure that lok guide shim is in place when running closures.
	3) Broken feed belts.	3) Check lower and upper feed belts. Replace if needed.

# SECTION VI Trouble Shooting

PROBLEM	SYMPTOM	CORRECTION
G. (continued)	4) Belt pivot plates are out of position.	4) Adjust according to Section V part I
	5) Feed belt pinch point position(s) not correct.	5) Adjust according to Section V, part I.
	6) Bag presentation is poor.	6) Bagger needs to hand bag to closer properly. See Section II Installation.
	7) Bag is too wide or film is too thick.	7) Larger lok opening is required. (Contact the factory for proper opening size.)
	8) The lower feed belt on either the drive side or the idle side is too loose.	8) Tighten the feed belt.
H. Knife-like cut in closure area of bag.	1) Film guide bent: not camming lok.	1) Adjust the film guide according to Section V, part F.
	2) Closure not positioned correctly.	2) Adjust the pick as described in Section V, part C.
	3) Pick stop out of position. Allows the closure to be drawn partially out of the lok track by the bag.	3) Adjust the pick stop so it contacts the pick. Refer to Section V Adjustments parts D and E.
I. Excessive damage to bag.	1) Bag presentation is poor.	1) Bagger needs to pass the bag to closer properly. See Section V, Part H Speed Control.
	2) Bag closed too tight.	2) Increase distance between bottom of closer and product.
	3) Belt pivot plates pinching bag.	3) Adjust belt pivot plates. see Section IV Maintenance parts A and B. Plates must move freely. Check tension at pivot points.

# SECTION VI

## Trouble Shooting

### SOLENOID MODULE / CLUTCH ACTUATING SOLENOID

The following is an explanation for the basic operation of the solenoid module and the clutch actuating solenoid, followed by test procedures that can be used to trouble shoot the electrical system should electrical problems arise.

#### BASIC OPERATION

The solenoid module accepts input voltages from 115VAC, and 200VAC to 250VAC. Input voltage is transformed into 12VDC (nominal) to operate the switches and 24VDC (nominal) to operate the clutch solenoid. When the clutch actuating switch is closed, the solenoid module produces an output pulse of approximately 37 milliseconds in duration that actuates the clutch solenoid. When the actuating switch is reopened, the module is reset and is then ready to generate the next pulse.

#### IMPORTANT

Proceed with the electrical tests only after verifying the following:

- 1) Check the wire connector between the electrical control box and the closer main frame. It should be connected and undamaged.
- 2) Check to see that terminals #5 and #6 of the solenoid module are jumpered together.
- 3) Check that the clutch actuating switch is undamaged and in the proper position. Refer to Section V, part G. CLUTCH ACTUATING SWITCH.

#### SWITCH TEST

With the clutch actuating leads disconnected from terminals #3 and #4 and the power "on", measure the voltage between terminals #3 and #4. If it reads approximately 12VDC then the module is functional. Reconnect the switch leads. The meter should read 0VDC when the clutch actuating switch or the manual pushbutton switch is operated. If any voltage is detected then one of the switches (or the wiring to them) is defective. Isolate (disconnect) the clutch actuating switch from the circuit and join its incoming leads together. Press and release the manual cycle pushbutton. If the solenoid actuates, then the clutch actuating switch is defective. Jumping the pushbutton blue colored leads together and operating the clutch actuating switch will also indicate which switch is defective.

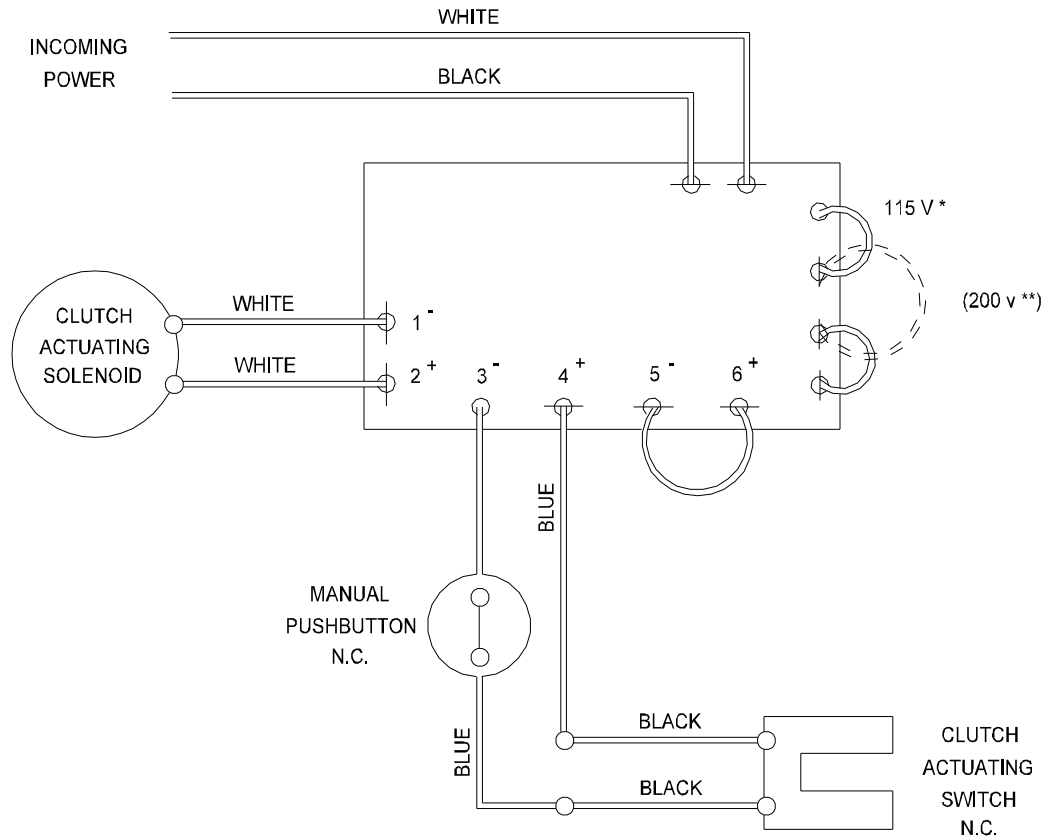
#### SOLENOID TEST

If the manual pushbutton light blinks when the button is released, then the solenoid module is sending a pulse to the clutch solenoid. Disconnect the leads from terminals #2 and #3. With the power on measure the voltage between terminals #2 and #3. The voltage here should read about 26VDC. Connect the meter to terminals #1 and #2 of the solenoid module and operate the manual pushbutton. The meter should detect the output pulse when the button is released.

**NOTE:** Due to the speed of the output pulse (37milliseconds) and the slow response time of the meter, the true pulse voltage will not be indicated. If no voltage is detected then either one of the switches or the module itself is malfunctioning. If the solenoid module is producing the output pulse to the clutch solenoid and the clutch solenoid does not actuate, then the clutch solenoid is defective.



# SECTION VI Trouble Shooting



\* FOR 115 VOLT OPERATION CONNECT AS SHOWN  
\*\* FOR 200-250 VOLT OPERATION CONNECT A JUMPER ACROSS THE TWO CENTER TERMINALS ONLY AS SHOWN (INDICATED BY THE DOTTED LINES)

Figure 6.1

**Refer to Section VIII of this manual for a complete wiring diagram.**



**WARNING: DO NOT ORDER BY ITEM NUMBER.**

Be sure to order by Part Number and Description. Please list the Serial Number of the machine for which parts are ordered.

## SECTION VII Parts Identification

### 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 three advantages to ordering kits:

- (1) To combine various PARTS that make up a machine model.
- (2) To provide options to the basic machine.
- (3) 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 this 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 MACHINE. THIS IS NOTED WITH AN "R" OR "L" AT THE END OF THE PART NUMBER.

As an example - 08-004596 R Frame - Closer (see pages 7.3 & 7.4) identifies the MAIN FRAME as item 14 on the drawing. Referring to the PARTS COMMON Parts List, the description for Item Number 14 is "Part No. 08-004596 R, Frame - Closer" If the Machine Nameplate is marked "Type 865A, Model AKNRPR Serial No. 10001," the order should specify as follows:

"One Part No. 08-004596 R, Frame - Closer "  
(For Closing Head Type 865A, Model AKNRPR, Serial No. 10001)

# SECTION VII Parts Identification

**WARNING: DO NOT ORDER BY ITEM NUMBER.**  
Be sure to order by Part Number and Description. Please list the Serial Number of the machine for which parts are ordered.

## RIGHT OR LEFT HAND MACHINE IDENTIFICATION

**IMPORTANT:** The 865A Closer is available in right and left-hand models. ALL ILLUSTRATIONS DEPICTED IN THIS MANUAL ARE CONFIGURED TO A RIGHT HAND MODEL CLOSER. Parts lists include part numbers for both right and left-hand models when applicable. Determine the hand of the machine so as to insure that the correct parts are ordered. Use the information given below to establish if your machine is either right or left-hand.


- MODEL- HAND box on the machine's Nameplate.  
For a right-hand model the last letter will be "R".

AJNRPR  
 MODEL - HAND

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

AJNRPL  
 MODEL - HAND

**MANUFACTURED BY**



**Kwik Lok**® CORPORATION  
YAKIMA, WASHINGTON U.S.A.

<b>865A</b>	<b>AJNRPR</b>	<b>10001-2010</b>
TYPE	MODEL - HAND	SERIAL NUMBER

\_\_\_\_\_ VAC, \_\_\_\_\_ Hz, \_\_\_\_\_ Amps, \_\_\_ Ph

- To determine the correct flow direction, visualize standing behind the closer with the product moving towards you.

If the closure reel is on your **RIGHT** then the flow direction is **RIGHT**. This machine is a **RIGHT-HAND MACHINE**.

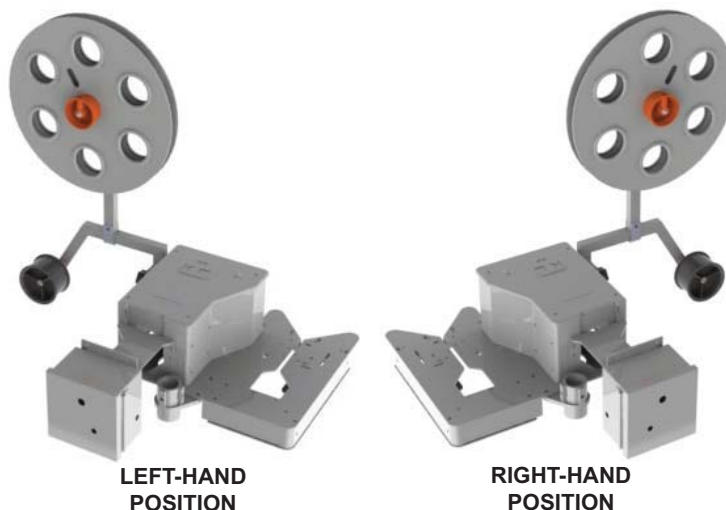
If the closure reel is on your **LEFT** then the flow direction is **LEFT**. This machine is a **LEFT-HAND MACHINE**.

### FLOW DIAGRAM

To determine the correct flow direction, visualize standing behind the closer with the product moving toward you.

If the closure reel is on your right - the flow direction is **RIGHT-HAND**.

If the closure reel is on your left - the flow direction is **LEFT-HAND**.



**WARNING: DO NOT ORDER BY ITEM NUMBER.**  
Be sure to order by Part Number and Description. Please list the Serial Number of the machine for which parts are ordered.

# SECTION VII Parts Identification

## PARTS COMMON

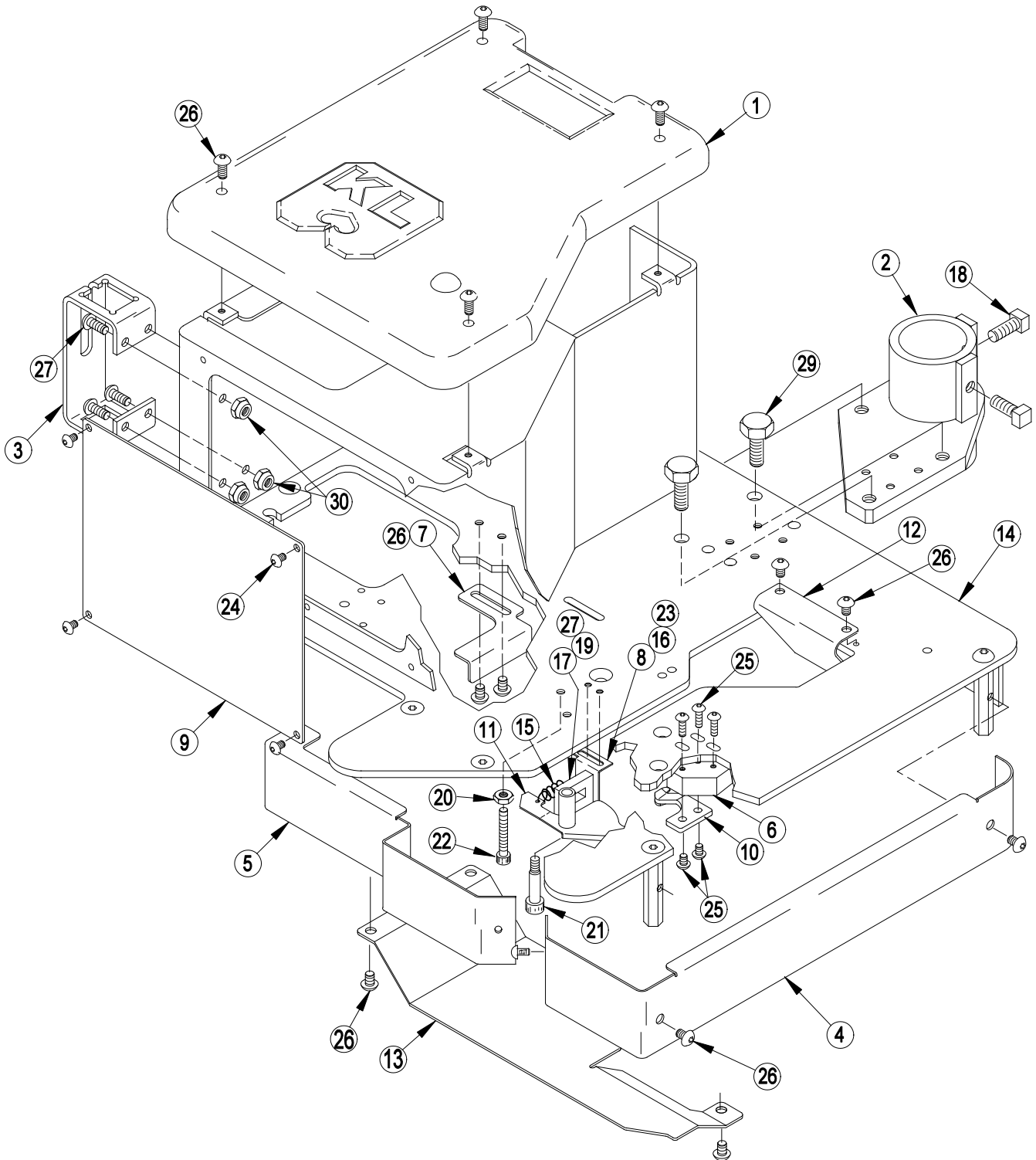


Figure 7.1

# SECTION VII

## Parts Identification

**WARNING: DO NOT ORDER BY ITEM NUMBER.**  
 Be sure to order by Part Number and Description. Please list the Serial Number of the machine for which parts are ordered.

### PARTS COMMON (Figure 7.1)

#### PARTS LIST

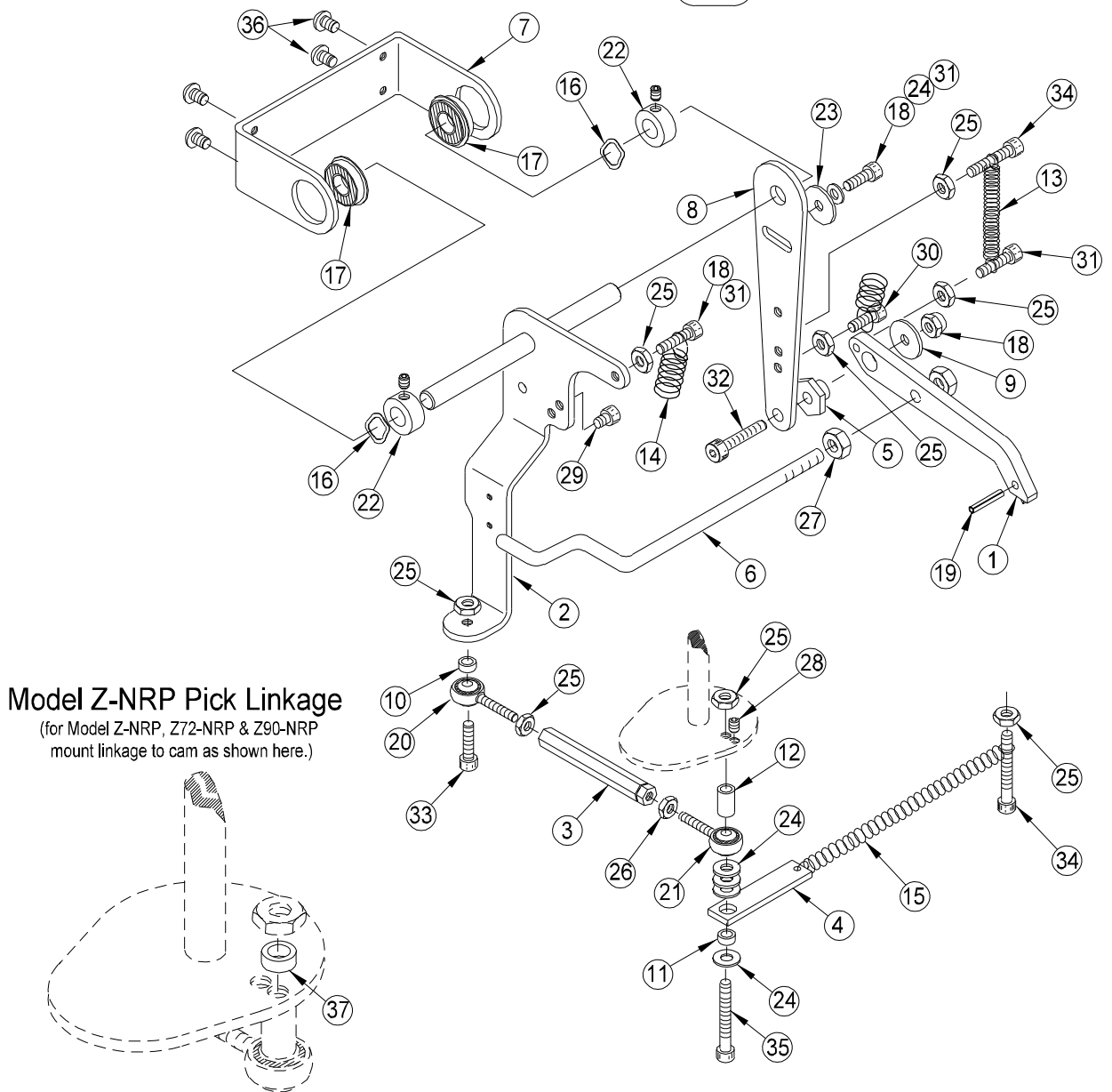
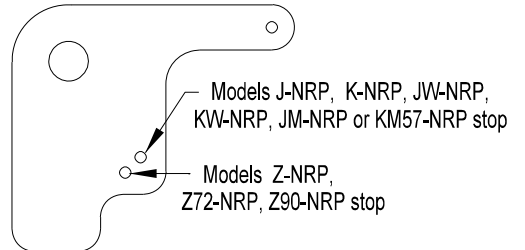
Item No.	Part No.	Description	Qty.	Item No.	Part No.	Description	Qty.
1	08-006418 R	Cover - Top (right-hand machine)	1	11	08-004433 R	Lever - Actuator (right-hand machine)	1
	08-006418 L	Cover - Top (left-hand machine)	1		08-004433 L	Lever - Actuator (left-hand machine)	1
2	08-004117 R	Mount - Closer (right-hand machine)	1	12	08-004592	Deflector - Bag Neck - Standard	1
	08-004117 L	Mount - Closer (left-hand machine)	1		08-005459	Deflector - Bag Neck - Model G	1
3	08-005582	Bracket - Mast Mounting	1	13	08-004594 R	Deflector - Label - Standard	1
4	08-004122 S	Cover - Idle Side - Standard	1		08-004594 L	Deflector - Label - Standard	1
	08-005464 S	Cover - Idle Side - Model G	1		08-005460 R	Deflector - Label Models AG & BG only	1
5	08-004123 SR	Cover - Drive Side - Standard (right-hand machine)	1		08-005460 L	Deflector - Label Models AG & BG only	1
	08-004123 SL	Cover - Drive Side - Standard (left-hand machine)	1	14	08-004596 R	Frame - Closer (right-hand machine)	1
	08-005465 R	Cover - Drive Side Models AG and CG (right-hand machine)	1		08-004596 L	Frame - Closer (left-hand machine)	1
	08-005465 L	Cover - Drive Side Models AG and CG (left-hand machine)	1	15	0S-012	Spring - Lever Actuating (yellow in color)	1
6	08-005232	Block - Film Guide Mount	1	16	P11-00272	Clamp - 1/8 Wire	2
7	08-004150 R	Stop - Pick (right-hand machine)	1	17	P12-00126	Sensor	1
	08-004150 L	Stop - Pick (left-hand machine)	1	18	P23-00221	Screw - 3/8-16UNC x 3/4 Lg Square Head	2
8	08-004153 R	Mount - Sensor (right-hand machine)	1	19	P23-00166 S	Nut - 4-40UNC - ESNA	1
	08-004153 L	Mount - Sensor (left-hand machine)	1	20	F03-190C S	Nut - 10-24UNC - Hex	1
9	08-006449	Cover - Front	1	21	08-005566	Bolt - Actuator Lever	1
10	08-004442 R	Guide - Film - Models J-NRP, K-NRP, JM-NRP, JW-NRP, KW-NRP, Z-NRP, KM57-NRP (right-hand machine)	1	22	F10-190C22 S	Screw - 10-24UNC x 1 3/8 Lg Skt Hd Cap	1
	08-004442 L	Guide Film - Models J-NRP, K-NRP, JM-NRP, JW-NRP, KW-NRP, Z-NRP, KM57-NRP (left-hand machine)	1	23	F11-138C04 S	Screw - 6-32UNC x 1/4 Lg Skt Btn Hd	2
	08-005100 R	Guide - Film - Model Z90-NRP (right-hand machine)	1	24	F11-164C04 S	Screw - 8-32UNC x 1/4 Lg Skt Btn Hd	6
	08-005100 L	Guide - Film - Model Z90-NRP (left-hand machine)	1	25	F11-190C06 S	Screw - 10-24UNC x 3/8 Lg Skt Btn Hd	5
				26	F11-190F04 S	Screw - 10-32UNF x 1/4 Lg Skt Btn Hd	16
				27	F11-190F07 S	Screw - 10-32UNF x 7/16 Lg Skt Btn Hd	8
				28	F12-112C06 S	Screw - 4-40UNC x 3/8 Lg Skt Flt Hd	1
				29	F13-312F10	Screw - 5/16-24UNF x 5/8 Lg Hex Hd	3
				30	P23-00061	Nut - 10-32UNF - ESNA	4

**WARNING: DO NOT ORDER BY ITEM NUMBER.**  
 Be sure to order by Part Number and Description. Please list the Serial Number of the machine for which parts are ordered.

# SECTION VII Parts Identification

## PICK ASSEMBLY

Pick Stop Locations



# SECTION VII

## Parts Identification

**WARNING: DO NOT ORDER BY ITEM NUMBER.**

Be sure to order by Part Number and Description. Please list the Serial Number of the machine for which parts are ordered.

### PICK ASSEMBLY

(Figure 7.2)

#### PARTS LIST

Item No.	Part No.	Description	Qty.	Item No.	Part No.	Description	Qty.
1	08-002080	Pick - Lok	1	21	P28-00041	Rod End (left hand thread)	1
2	08-005585 R	Shaft - Pick (right-hand machine)	1	22	P29-00002	Collar - Set	2
	08-005585 L	Shaft - Pick (left-hand machine)	1	23	P36-00034	Washer - Nylon	1
3	08-004146	Rod - Connecting	1	24	F01-190 S	Washer - No. 10 Flat	5
4	08-004147	Anchor Connecting Rod Spring	1	25	F03-190F S	Nut - 10-32UNF- Hex	7
5	08-004713	Bearing - Pick - Model J-NRP, or K-NRP	1	26	08-000706 S	Nut - 10-32UNF- Hex (left hand)	1
	08-004714	Bearing - Pick Model JM-NRP, KM-NRP, KM57-NRP	1	27	F03-250F S	Nut - 1/4 - 28UNF - Hex	2
	08-004715	Bearing - Pick - Model JW-NRP, KW-NRP	1	28	F06-190F02 S	Screw - 10-32UNF x 1/8 Lg Skt Set	1
	08-004868	Bearing - Pick Model Z-NRP, Z90-NRP	1	29	F10-190F03 S	Screw - 10-32UNF x 3/16 Lg Skt Hd Cap	1
6	08-004711 R	Disengager - Pick (right-hand machine)	1	30	F10-190F10 S	Screw - 10-32UNF x 5/8 Lg Skt Hd Cap	3
	08-004711 L	Disengager - Pick (left-hand machine)	1	31	F10-190F12 S	Screw - 10-32UNF x 3/4 Lg Skt Hd Cap	2
7	08-004144	Mount - Pick Shaft	1	32	F10-190F14 S	Screw - 10-32UNF x 7/8 Lg Skt Hd Cap - Model J-NRP, K-NRP	1
8	08-005450	Arm - Pick	1		F10-190F18 S	Screw - 10-32UNF x 1 1/8" Lg Skt Hd Cap - Model JM-NRP, KM-NRP	1
9	0W-001SP	Washer	1		F10-190F24 S	Screw - 10-32UNF x 1 1/2 Lg Skt Hd Cap - Model JW-NRP, KW-NRP, Z-NRP	1
10	B312203125	Bushing	2	33	F10-190F14 S	Screw - 10-32UNF x 7/8 Lg Skt Hd Cap	1
11	B312203140	Bushing	1	34	F10-190F24 S	Screw - 10-32UNF x 1 1/2 Lg Skt Hd Cap	2
12	B312203468	Bushing	1	35	F10-190F24 S	Screw - 10-32UNF x 1 1/2 Lg Skt Hd Cap - Model J-NRP, K-NRP, JM-NRP, KM-NRP, JW-NRP, KW-NRP,	1
13	0S-043	Spring	1		F10-190F26 S	Screw - 10-32UNF x 1 5/8 Lg Skt Hd Cap Model Z-NRP	1
14	0S-054	Spring	1	36	F11-190F06 S	Screw - 10-32UNF x 3/8 Lg Skt Btn Hd	4
15	0S-079	Spring - Extension	1	37	BS250203187	Bushing (for Model Z-NRP and Z90-NRP only)	1
16	0S-099	Spring - Wave	2				
17	P02-00139	Bearing	2				
18	P23-00061	Nut - 10-32UNF - ESNA	2				
19	P23-00224 S	Pin - Spring - Standard 1/8 Dia. x 1 Lg	1				
	P23-00126	Pin - Spring - Model Z-NRP and Z90-NRP 1/8 Dia. x 1 1/4 Lg	1				
20	P28-00031	Rod End	1				



**WARNING: DO NOT ORDER BY ITEM NUMBER.**  
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## SECTION VII Parts Identification

### BREAKOFF ASSEMBLY LINKAGE

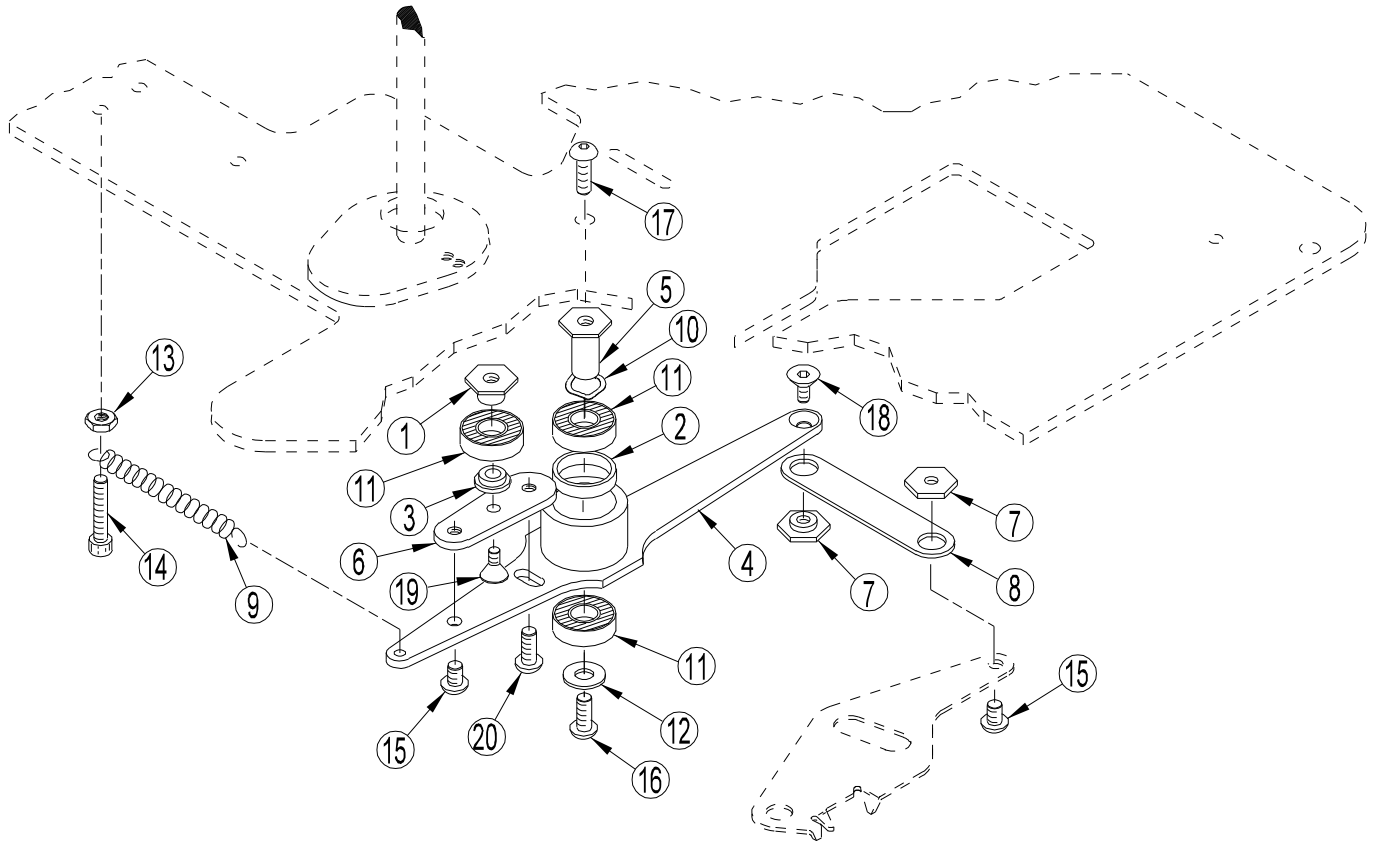


Figure 7.3

#### PARTS LIST

Item No.	Part No.	Description	Qty.	Item No.	Part No.	Description	Qty.
1	08-002158	Nut - Pulley	1	14	F10-190F20 S	Screw - 10-32UNF x 1 1/4 Lg Skt Hd Cap	1
2	08-002422	Bushing - Bearing	1	15	F11-190F04 S	Screw - 10-32UNF x 1/4 Lg Skt Btn Hd	2
3	08-003491	Spacer - Bogie Pulley	1	16	F11-250F06	Screw - 1/4-28UNF x 3/8 Lg Skt Btn Hd	1
4	08-004113	Arm - Lok Breakoff	1	17	F11-250F08	Screw - 1/4-28UNF x 1/2 Lg Skt Btn Hd	2
5	08-004139	Shaft - Breakoff Arm	1	18	F12-190F06 S	Screw - 10-32UNF x 3/8 Lg Skt Flt Hd	1
6	08-004142	Plate - Cam Pulley Adjust	1	19	F12-190F08 S	Screw - 10-32UNF x 1/2 Lg Skt Flt Hd	1
7	08-004154	Mount - Breakoff Link	2	20	F11-190F06 S	Screw - 10-32UNF x 3/8 Lg Skt Btn Hd	1
8	08-004540	Link Breakoff	1				
9	0S-018	Spring	1				
10	0S-099	Spring - Wave	1				
11	P02-00095	Bearing	3				
12	F01-250	Washer - 1/4 - Flat	1				
13	F03-190F S	Nut - 10-32UNF - Hex	1				

# SECTION VII Parts Identification

**WARNING: DO NOT ORDER BY ITEM NUMBER.**  
Be sure to order by Part Number and Description. Please list the Serial Number of the machine for which parts are ordered.

## FEED BELTS (Drive Side)

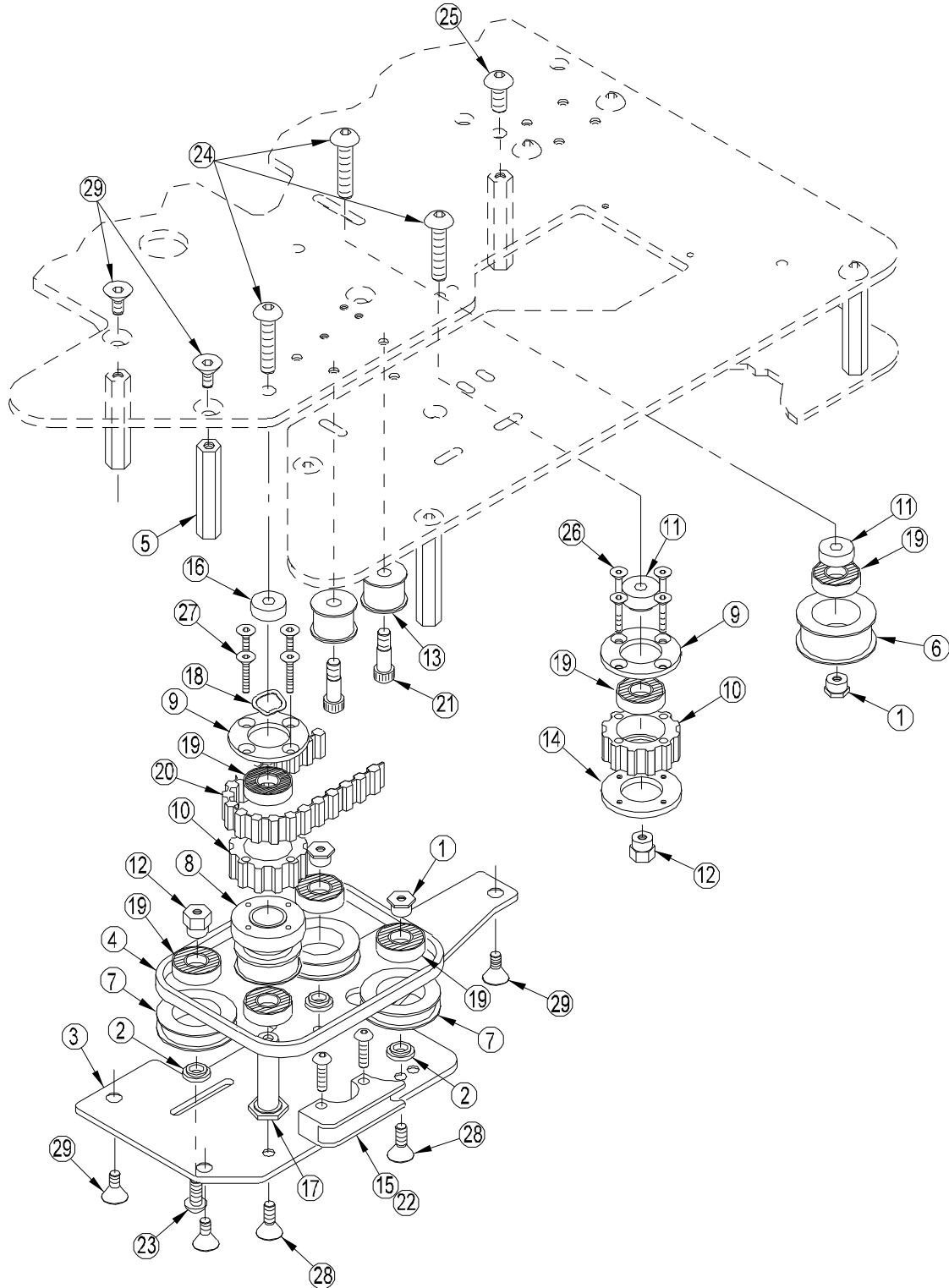


Figure 7.4

**WARNING: DO NOT ORDER BY ITEM NUMBER.**

Be sure to order by Part Number and Description. Please list the Serial Number of the machine for which parts are ordered.

# SECTION VII

## Parts Identification

### FEED BELTS (Drive Side)

(Figure 7.4)

#### PARTS LIST

Item No.	Part No.	Description	Qty.	Item No.	Part No.	Description	Qty.
1	08-002158	Nut - Pulley	4	20	P03-00113	Belt - Gear - Drive - Model K-NRP, JW-NRP, KW-NRP, JM-NRP, KM57-NRP	1
2	08-003491	Spacer - Bogie Pulley	3				
3	08-004112 R	Plate - Lower Pulley Mount (right-hand machine)	1		P03-00130	Belt - Gear - Drive - Model Z-NRP, Z90-NRP	1
	08-004112 L	Plate - Lower Pulley Mount (left-hand machine)	1	21	08-005567	Bolt - Support Roller	2
4	08-004124	Belt - Lower Feed (square belts)	1	22	F11-164C10 S	Screw - 8-32UNC x 5/8 Lg Skt Btn Hd	4
5	08-004125	Post - Lower Plate Mount	2	23	F11-190F08 S	Screw - 10-32UNF x 1/2 Lg Skt Btn Hd	2
6	08-004129	Pulley - Drive Gearbelt	1	24	F11-190F14 S	Screw - 10-32UNF x 7/8 Lg Skt Btn Hd	3
7	08-004130	Pulley - Lower Feed Belt	3	25	F11-250F08 S	Screw - 1/4-28UNF x 1/2 Lg Skt Btn Hd	1
8	08-005553	Pulley - Lower Feed Drive	1	26	F12-138C12 S	Screw - 6-32UNC x 3/4 Lg Skt Flt Hd	4
9	08-004132	Flange - Feed Drive Pulley	2	27	F12-138C16 S	Screw - 6-32UNC x 1" Lg Skt Flt Hd	4
10	08-004133	Pulley - Upper Feed Drive	2	28	F12-190F08 S	Screw - 10-32UNF x 1/2 Lg Skt Flt Hd	2
11	08-004134	Spacer - Feed Pulley	2	29	F12-250F08	Screw - 1/4-28UNF x 1/2 Lg Skt Flt Hd	7
12	08-004136	Nut - Pulley - Long	2				
13	08-004435	Roller - Gearbelt Support	2				
14	08-004558	Flange - Upper Pulley	1				
15	08-004837	Track - Lower Feed Belt	1				
16	08-005550	Spacer - Feed Pulley	1				
17	08-005552	Axle - Feed Pulley	1				
18	0S-099	Spring	1				
19	P02-00095	Bearing	7				

# SECTION VII Parts Identification

**WARNING: DO NOT ORDER BY ITEM NUMBER.**  
Be sure to order by Part Number and Description. Please list the Serial Number of the machine for which parts are ordered.

## FEED BELTS (Idle Side)

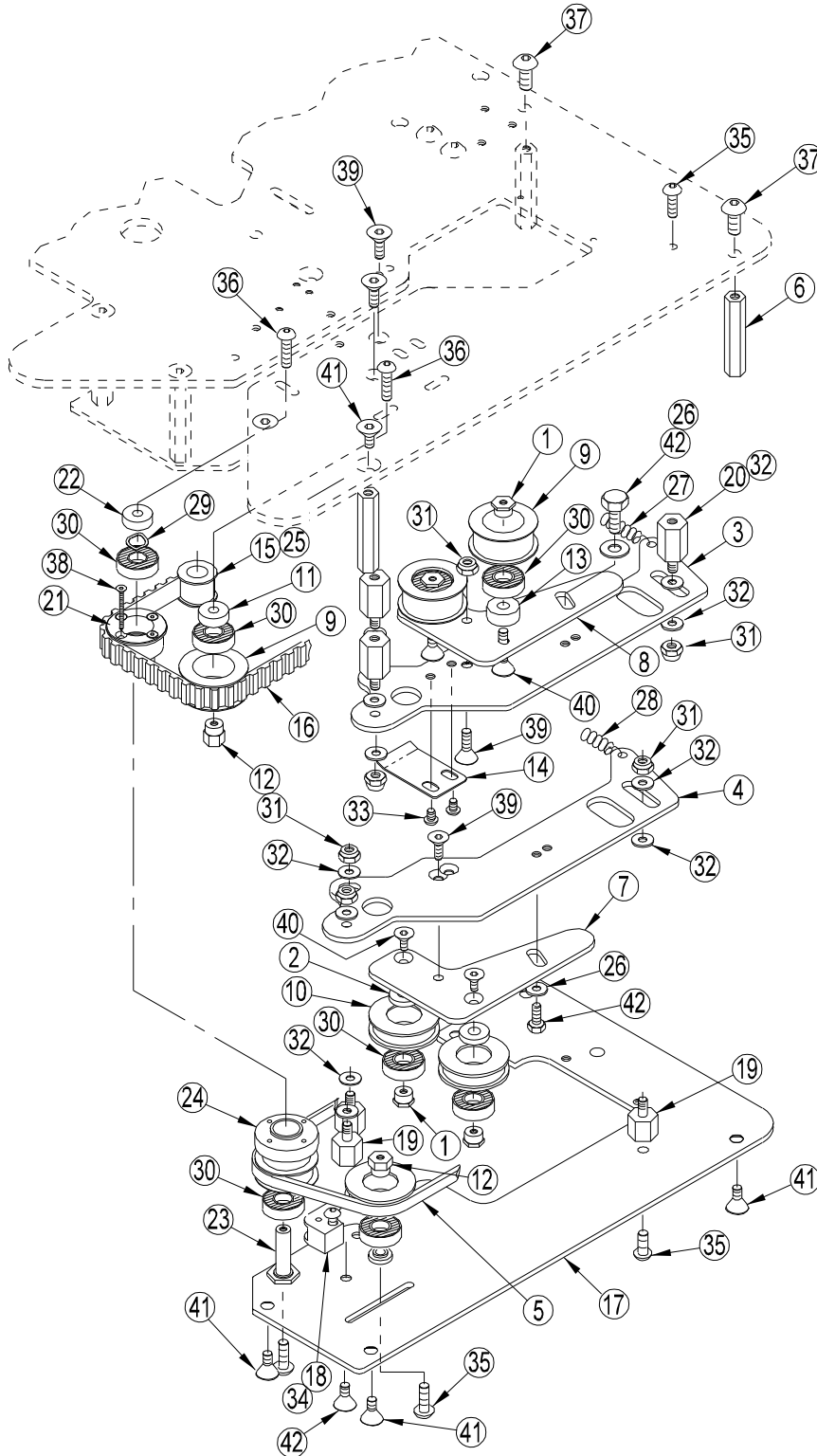


Figure 7.5

**WARNING: DO NOT ORDER BY ITEM NUMBER.**

Be sure to order by Part Number and Description. Please list the Serial Number of the machine for which parts are ordered.

# SECTION VII Parts Identification

## FEED BELTS (Idle Side)

(Figure 7.5)

### PARTS LIST

Item No.	Part No.	Description	Qty.	Item No.	Part No.	Description	Qty.
1	08-002158	Nut - Pulley	4	18	08-004837	Track - Lower Feed Belt	1
2	08-003491	Spacer - Bogie Pulley	3	19	08-006184	Post - Lower Belt Plate	3
3	08-006181 R	Plate - Belt Pivot (one required for right-hand machine)	1	20	08-006183	Post - Upper Belt Plate	3
	08-006181 L	Plate Belt Pivot (one required for left-hand machine)	1	21	08-005549	Pulley - Idle Gearbelt	1
4	08-006181 L	Plate - Belt Pivot (one required for right-hand machine)	1	22	08-005550	Spacer	1
	08-006181 R	Plate - Belt Pivot (one required for left-hand machine)	1	23	08-005552	Axle - Feed Pulley	1
5	08-004124	Belt - Lower Feed	1	24	08-005553	Pulley - Lower Feed Drive	1
6	08-004125	Post - Lower Plate Mount	4	25	08-005567	Bolt - Support Roller	1
7	08-004126 R	Plate - Pinch Point Adjust (one required for right-hand machine)	1	26	0W-001SP	Washer	2
	08-004126 L	Plate - Pinch Point Adjust (one required for left-hand machine)	1	27	0S-018	Spring	1
8	08-004126 L	Plate - Pinch Point Adjust (one required for right-hand machine)	1	28	0S-079	Spring - Extension	1
	08-004126 R	Plate - Pinch Point Adjust (one required for left-hand machine)	1	29	0S-099	Spring	1
9	08-004129	Pulley - Idler Gearbelt	3	30	P02-00095	Bearing	8
10	08-004130	Pulley - Lower Feed Belt	3	31	P23-00220 S	Nut - 10-32UNF - ESNA Low Profile	8
11	08-004134	Spacer - Feed Pulley	2	32	P36-00037	Washer	12
12	08-004136	Nut - Pulley - Long	2	33	F11-164C02 S	Screw - 8-32UNC x 1/8 Lg Skt Btn Hd	2
13	08-004140	Spacer	2	34	F11-164C10 S	Screw - 8-32UNC x 5/8 Lg Skt Btn Hd	2
14	08-004155	Deflector - Closure	1	35	F11-190F08 S	Screw - 10-32UNF x 1/2 Lg Skt Btn Hd	3
15	08-004435	Roller - Gearbelt Support	3	36	F11-190F14 S	Screw - 10-32UNF x 7/8 Lg Skt Btn Hd	2
16	08-004438	Belt - Gear - Idle	1	37	F11-250F08	Screw - 1/4-28UNF x 1/2 Lg Skt Btn Hd	2
17	08-004593 R	Plate - Lower Plate Mount (right-hand machine)	1	38	F12-138C16 S	Screw - 6-32UNC x 1" Lg Skt Flt Hd	4
	08-004593 L	Plate - Lower Plate Mount (left-hand machine)	1	39	F12-190F08 S	Screw - 10-32UNF x 1/2 Lg Skt Flt Hd	6
				40	F12-190F10 S	Screw - 10-32UNF x 5/8 Lg Skt Flt Hd	2
				41	F12-250F08	Screw - 1/4-28UNF x 1/2 Lg Skt Flt Hd	6
				42	F13-190F06 S	Screw - 10-32UNF x 3/8 Lg Hx Hd	2

# SECTION VII Parts Identification

**WARNING: DO NOT ORDER BY ITEM NUMBER.**  
Be sure to order by Part Number and Description. Please list the Serial Number of the machine for which parts are ordered.

## EXTENDED BELT DRIVE (865A Model B)

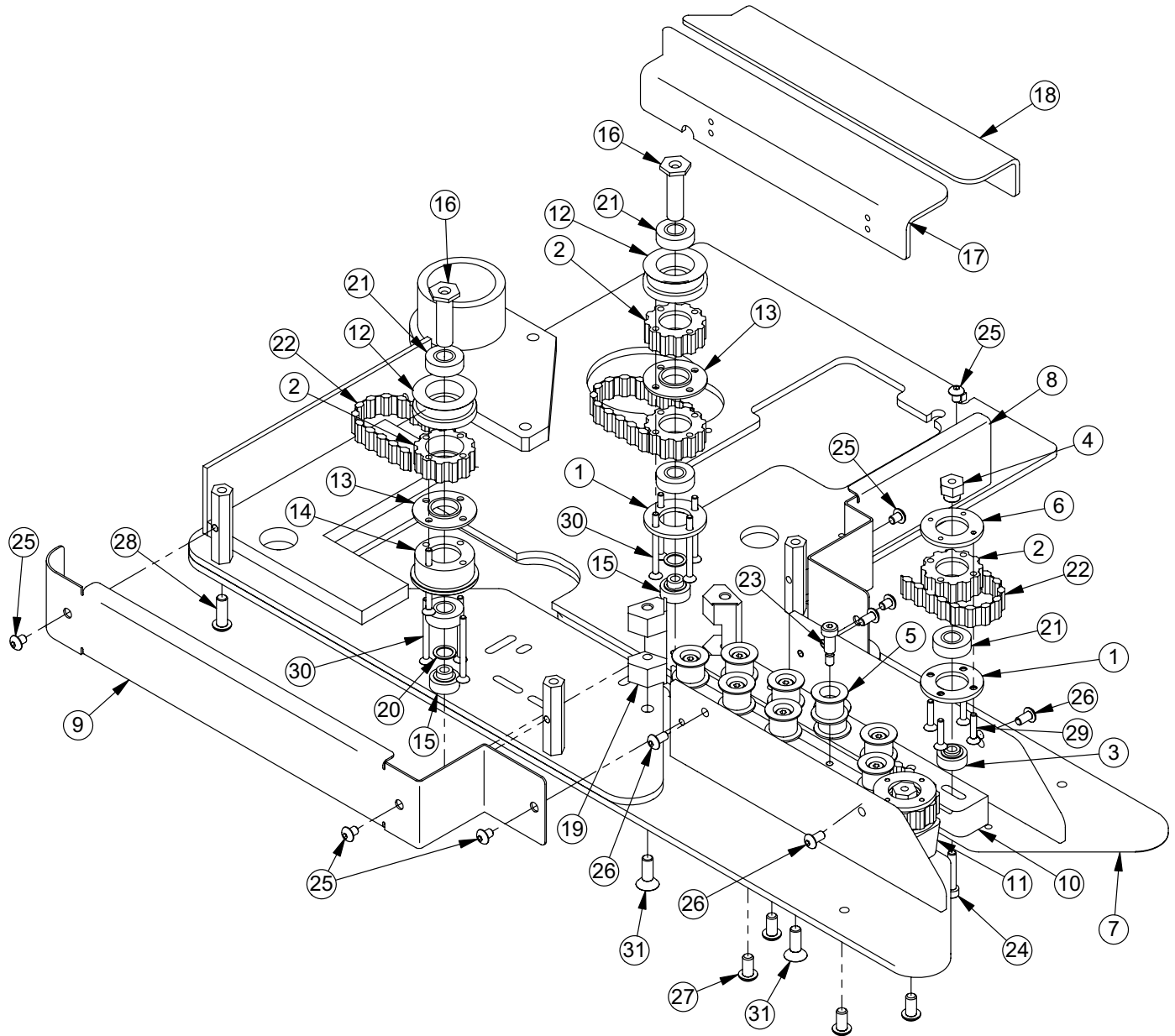


Figure 7.6

**WARNING: DO NOT ORDER BY ITEM NUMBER.**

Be sure to order by Part Number and Description. Please list the Serial Number of the machine for which parts are ordered.

## SECTION VII Parts Identification

### EXTENDED BELT DRIVE (Model B)

(Figure 7.6)

#### PARTS LIST

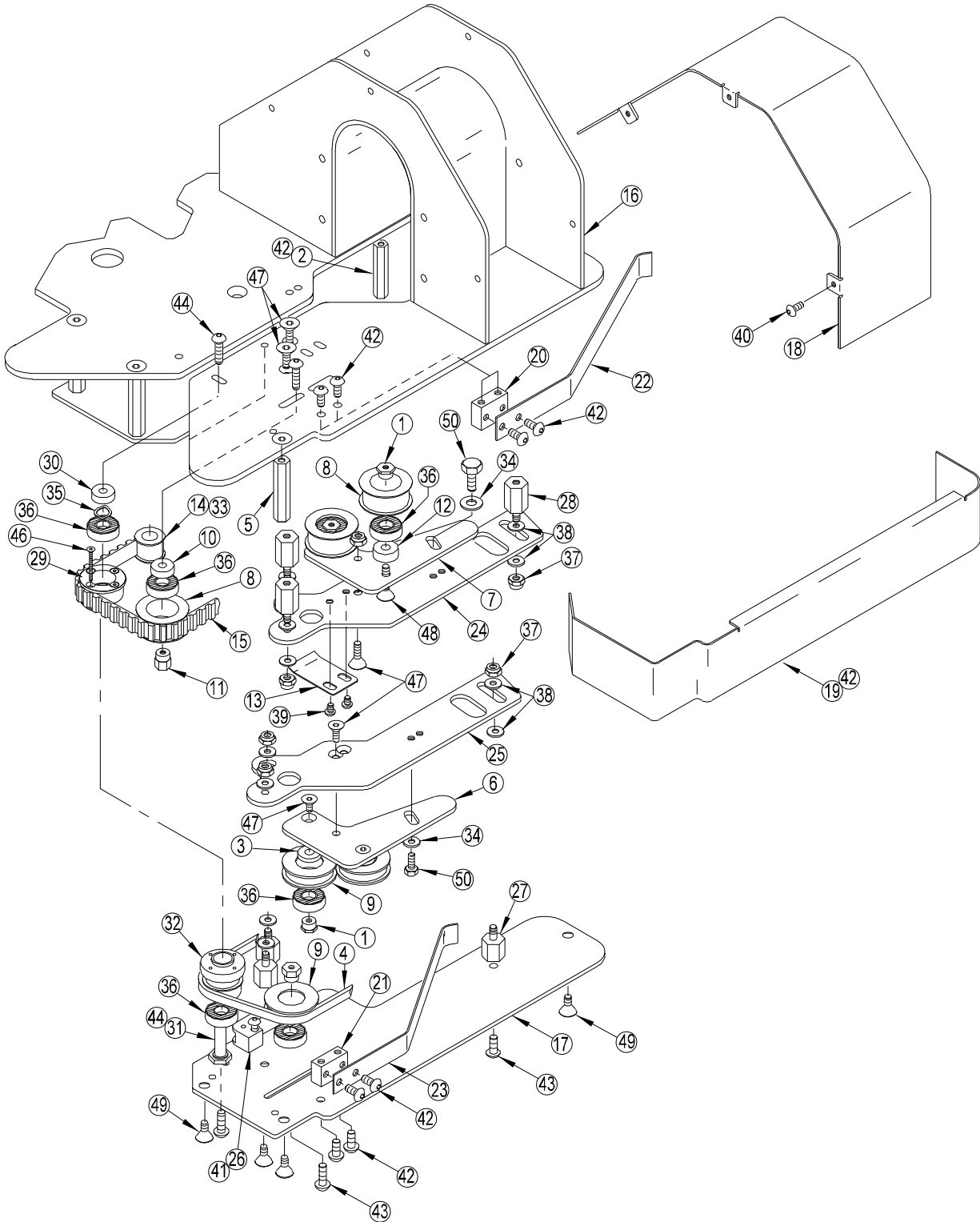
Item No.	Part No.	Description	Qty.	Item No.	Part No.	Description	Qty.	
1	08-004132	Flange - Feed Drive Pulley	3	17	08-006220 R	Shield - Extension - Right-Hand (one required for right-hand machine)	1	
2	08-004133	Pulley - Upper Feed Drive	5		08-006220 L	Shield - Extension - Left-Hand (one required for left-hand machine)		
3	08-004134	Spacer - Feed Pulley	2	18	08-006220 L	Shield - Extension - Left-Hand (one required for right-hand machine)	1	
4	08-004136	Nut - Pulley Long	2		08-006220 R	Shield - Extension - Right-Hand (one required for left-hand machine)		
5	08-004435	Roller - Gearbelt Support	9		19	08-006203	Post - Lower Plate Mounting Model B	2
6	08-004558	Flange - Upper Pulley	2		08-006223	Post - Lower Mounting Plate Model BG	2	
7	08-004615 R	Plate - Belt Drive Extension (right-hand machine)	1	20	OS-099	Spring - Wave	2	
	08-004615 L	Plate - Belt Drive Extension (left-hand machine)	1	21	P02-00095	Bearing	6	
8	08-004617 SR	Cover - Drive Side - Standard (right-hand machine)	1	22	P03-00119	Belt - Gear Timing	2	
	08-004617 SL	Cover - Drive Side - Standard (left-hand machine)	1	23	F05-250-08	Bolt - 1/4 - Skt Shoulder	9	
	08-005426 SR	Cover - Drive Side - Model BG (right-hand machine)	1	24	F10-190F16 S	Screw - 10-32UNF x 1" Lg Skt Hd Cap	2	
	08-005426 SL	Cover - Drive Side - Model BG (left-hand machine)	1	25	F11-190F04 S	Screw - 10-32UNF x 1/4 Lg Skt Btn Hd	6	
9	08-004618 S	Cover - Idle Side - Standard	1	26	F11-190F06 S	Screw - 10-32UNF x 3/8 Lg Skt Btn Hd	4	
	08-005466 S	Cover - Idle Side - Model BG	1	27	F11-250C08	Screw - 1/4-20UNC x 1/2 Lg Skt Btn Hd	4	
10	08-004619 R	Bar - Pulley Spacer - Drive (right-hand machine)	1	28	F11-250F12	Screw - 1/4-28UNF x 3/4 Lg Skt Btn Hd	3	
	08-004619 L	Bar - Pulley Spacer - Drive (left-hand machine)	1	29	F12-138C12 S	Screw - 6-32UNC x 3/4 Lg Skt Flt Hd	8	
11	08-006202 R	Bar - Pulley Spacer - Idle (right-hand machine)	1	30	F12-138C24 S	Screw - 6-32UNC x 1 1/2 Lg Skt Flt Hd	8	
	08-006202 L	Bar - Pulley Spacer - Idle (left-hand machine)	1	31	F12-250F12	Screw - 14-28UNF x 3/4 Lg Skt Flt Hd	4	
12	08-004621*	Pulley - Lower Feed Drive (not used with Model G lower gearbelt)	2					
13	08-004622	Spacer - Feed Drive pulley	2					
14	08-005549	Pulley - Idle Gearbelt	1					
15	08-005550	Spacer - Feed Pulley Assembly	2					
16	08-005552	Axle - Feed Pulley - Model B	2					
	08-005559	Axle - Feed Pulley - Model BG	2					

\* Not used with model "G" lower gearbelt.

# SECTION VII Parts Identification

**WARNING: DO NOT ORDER BY ITEM NUMBER.**  
Be sure to order by Part Number and Description. Please list the Serial Number of the machine for which parts are ordered.

## FEED BELTS - IDLE SIDE (865A Model C)





**WARNING: DO NOT ORDER BY ITEM NUMBER.**

Be sure to order by Part Number and Description. Please list the Serial Number of the machine for which parts are ordered.

## SECTION VII Parts Identification

### FEED BELTS - IDLE SIDE (Model C) (Figure 7.7)

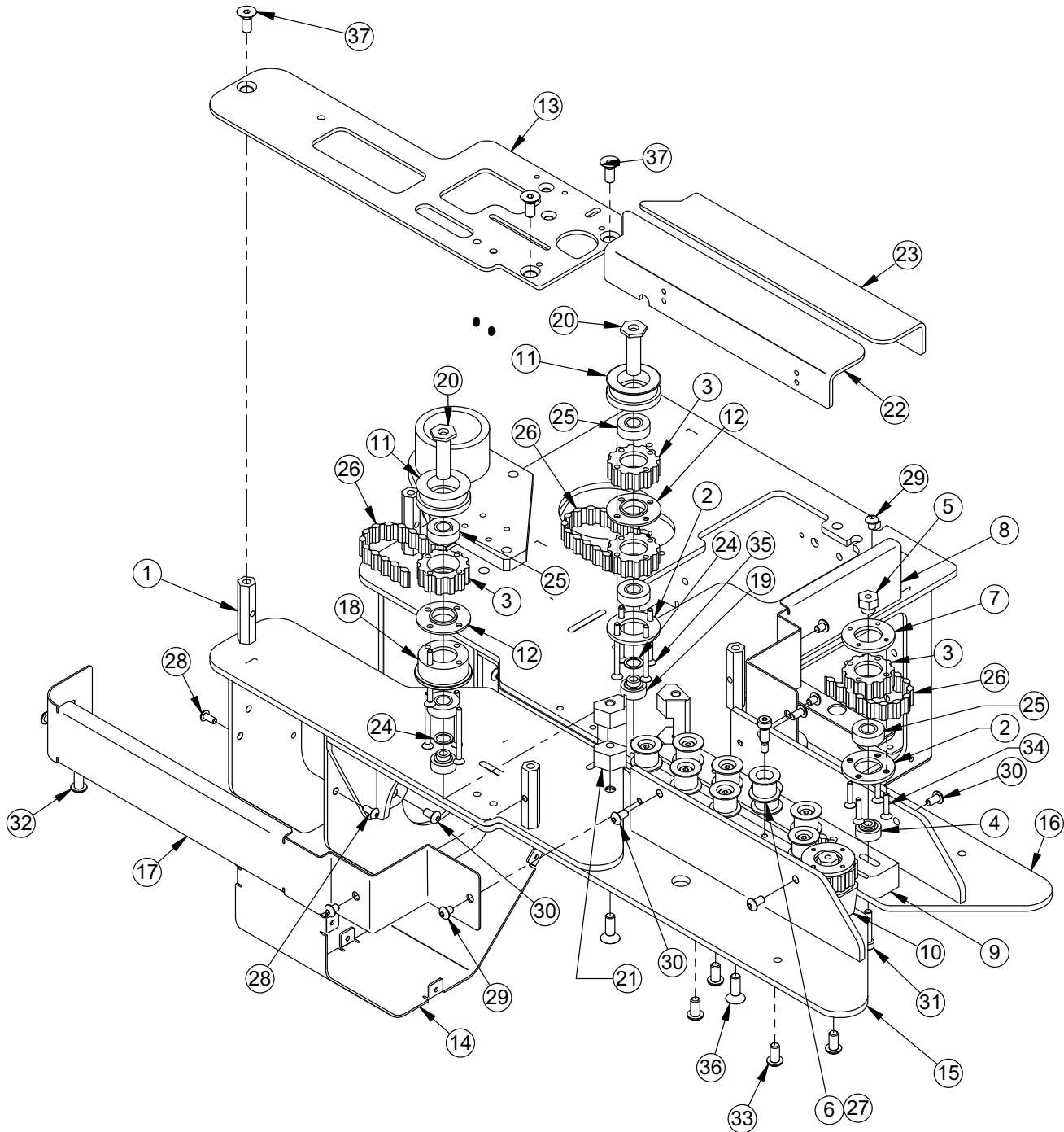
#### PARTS LIST

Item No.	Part No.	Description	Qty.	Item No.	Part No.	Description	Qty.
1	08-002158	Nut - Pulley	4	26	08-004837	Track - Lower Feed Belt	1
2	08-002447	Post - Cover Mount	1	27	08-006184	Post - Lower Belt Plate	3
3	08-003491	Spacer - Bogie Pulley	3	28	08-006183	Post - Upper Feed Plate	3
4	08-004124	Belt - Lower Feed	1	29	08-005549	Pulley - Idle Gearbelt	1
5	08-004125	Post - Lower Plate Mount	3	30	08-005550	Spacer	1
6	08-004126 R	Plate - Pinch Point Adjust (one required per machine)	1	31	08-005552	Axle - Feed Pulley	1
7	08-004126 L	Plate - Pinch Point Adjust (one required per machine)	1	32	08-005553	Pulley - Lower Feed Drive	1
8	08-004129	Pulley - Idler Gearbelt	3	33	08-005567	Bolt - Support Roller	1
9	08-004130	Pulley - Lower Feed Belt	3	34	0W-001P	Washer	2
10	08-004134	Spacer - Feed Pulley	1	35	0S-099	Spring	1
11	08-004136	Nut - Pulley - Long	2	36	P02-00095	Bearing	8
12	08-004140	Spacer	2	37	P23-00220	Nut - 10-32UNF ESNA Low Profile	8
13	08-004155	Deflector - Closure	1	38	P36-00037	Washer - Nylon	12
14	08-004435	Roller - Gearbelt Support	1	39	F11-164C02 S	Screw - 8-32UNC x 1/8 Lg Skt Btn Hd	2
15	08-004438	Belt - Gear - Idle	1	40	F11-164C06 S	Screw - 8-32UNC x 3/8 Lg Skt Btn Hd	6
16	08-004731 R	Frame - Closer (right-hand machine)	1	41	F11-164C10 S	Screw - 8-32UNC x 5/8 Lg Skt Btn Hd	2
	08-004731 L	Frame - Closer (left-hand machine)	1	42	F11-190F06 S	Screw - 10-32UNF x 3/8 Lg Skt Btn Hd	9
17	08-004732 R	Plate - Lower Pulley Mount (right-hand machine)	1	43	F11-190F08 S	Screw - 10-32UNF x 1/2 Lg Skt Btn Hd	3
	08-004732 L	Plate - Lower Pulley Mount (left-hand machine)	1	44	F11-190F14 S	Screw - 10-32UNF x 7/8 Lg Skt Btn Hd	2
18	08-004733	Wrap - Bridge	1	45	F11-250F08	Screw - 1/4-28UNF x 1/2 Lg Skt Btn Hd	2
19	08-004734	Cover - Idle Side - Standard	1	46	F12-138C16 S	Screw - 6-32UNC x 1 Lg Skt Flt Hd	4
	08-005467	Cover - Idle Side - Model CG	1	47	F12-190F08 S	Screw - 10-32UNF x 1/2 Lg Skt Flt Hd	6
20	08-004735	Block - Upper Spring Mount	1	48	F12-190F10 S	Screw - 10-32UNF x 5/8 Lg Skt Flt Hd	4
21	08-004736	Block - Lower Spring Mount Standard	1	49	F12-250F08	Screw - 1/4-28UNF x 1/2 Lg Skt Flt Hd	6
	08-004735	Block - Lower Spring Mount Model G	1	50	F13-190F06 S	Screw - 10-32UNF x 3/8 Lg Hx Hd	2
22	08-004737	Spring - Upper Gearbelt	1				
23	08-004738	Spring - Lower Belt - Standard	1				
	08-004737	Spring - Lower Belt - Model G	1				
24	08-006192 R	Plate - Belt Pivot (one required per machine)	1				
25	08-006192 L	Plate - Belt Pivot (one required per machine)	1				

# SECTION VII Parts Identification

**WARNING: DO NOT ORDER BY ITEM NUMBER.**  
Be sure to order by Part Number and Description. Please list the Serial Number of the machine for which parts are ordered.

## EXTENDED DRIVE BELTS (865A Model D)



**WARNING: DO NOT ORDER BY ITEM NUMBER.**

Be sure to order by Part Number and Description. Please list the Serial Number of the machine for which parts are ordered.

## SECTION VII Parts Identification

### EXTENDED DRIVE BELTS (Model D)

(Figure 7.8)

#### PARTS LIST

Item No.	Part No.	Description	Qty.	Item No.	Part No.	Description	Qty.
1	08-004125	Post - Lower Plate Mounting	4	20	08-005552	Axle - Feed Pulley - Model D	2
2	08-004132	Flange - Feed Drive Pulley	3	21	08-006203	Post - Lower Plate Mounting	2
3	08-004133	Pulley - Upper Feed Drive	5	22	08-006220 R	Shield - Drive Extension (one required for right-hand machine)	1
4	08-004134	Spacer - Feed Pulley	2		08-006220 L	Shield - Drive Extension (one required for left-hand machine)	1
5	08-004136	Nut - Pulley Long	2	23	08-006220 L	Shield - Drive Extension (one required for right-hand machine)	1
6	08-004435	Roller - Gearbelt Support	9		08-006220 R	Shield - Drive Extension (one required for left-hand machine)	1
7	08-004558	Flange - Upper Pulley	2	24	OS-099	Spring - Wave - Stainless	2
8	08-004617 SR	Cover - Drive Side (right-hand machine)	1	25	P02-00095	Bearing	6
	08-004617 SL	Cover - Drive Side (left-hand machine)	1	26	P03-00119	Belt - Gear Timing	2
9	08-004619 R	Bar - Pulley Spacer - Drive (right-hand machine)	1	27	F05-250-08	Bolt - 1/4 Socket Shoulder	9
	08-004619 L	Bar - Pulley Spacer - Drive (left-hand machine)	1	28	F11-164C06 S	Screw - 8-32UNC x 3/8 Lg Skt Btn Hd	6
10	08-006202 R	Bar - Pulley Spacer - Idle (right-hand machine)	1	29	F11-190F04 S	Screw - 10-32UNF x 1/4 Lg Skt Btn Hd	6
	08-006202 L	bar - Pulley Spacer - Idle (left-hand machine)	1	30	F11-190F06 S	Screw - 10-32UNF x 3/8 Lg Skt Btn Hd	10
11	08-004621	Pulley - Lower Feed Drive	2	31	F10-190F16 S	Screw - 10-32UNF x 1" Lg Skt Hd Cap	2
12	08-004622	Spacer - Feed Drive Pulley	2	32	F11-250F08	Screw - 1/4-28UNF x 1/2 Lg Skt Btn Hd	1
13	08-004732 R	Plate - Lower Pulley Mounting (right-hand machine)	1	33	F11-250C08	Screw - 1/4-20UNC x 1/2 Lg Skt Btn Hd	4
	08-004732 L	Plate - Lower Pulley Mounting (left-hand machine)	1	34	F12-138C12 S	Screw - 6-32UNC x 3/4 Lg Skt Btn Hd	8
14	08-004733	Wrap - Bridge	1	35	F12-138C24 S	Screw - 6-32UNC x 1 1/2 Lg Skt Flt Hd	8
15	08-004838 R	Plate - Belt Drive - Extended Drive (right-hand machine)	1	36	F12-250C10	Screw - 1/4-20UNC x 5/8 Lg Skt Flt Hd	4
	08-004838 L	Plate - Belt Drive - Extended Drive (left-hand machine)	1	37	F12-250F12	Screw - 1/4-28UNF x 3/4 Lg Skt Flt Hd	
16	08-004839 R	Plate - Belt Drive - Extended Idle (right-hand machine)	1				
	08-004839 L	Plate - Belt Drive - Extended Idle (left-hand machine)	1				
17	08-004840 S	Cover - Idle Side	1				
18	08-005549	Pulley - Idle Gearbelt	1				
19	08-005550	Spacer - Feed Pulley Assembly	2				

# SECTION VII Parts Identification

**WARNING: DO NOT ORDER BY ITEM NUMBER.**  
Be sure to order by Part Number and Description. Please list the Serial Number of the machine for which parts are ordered.

## MOTOR and DRIVE ASSEMBLY

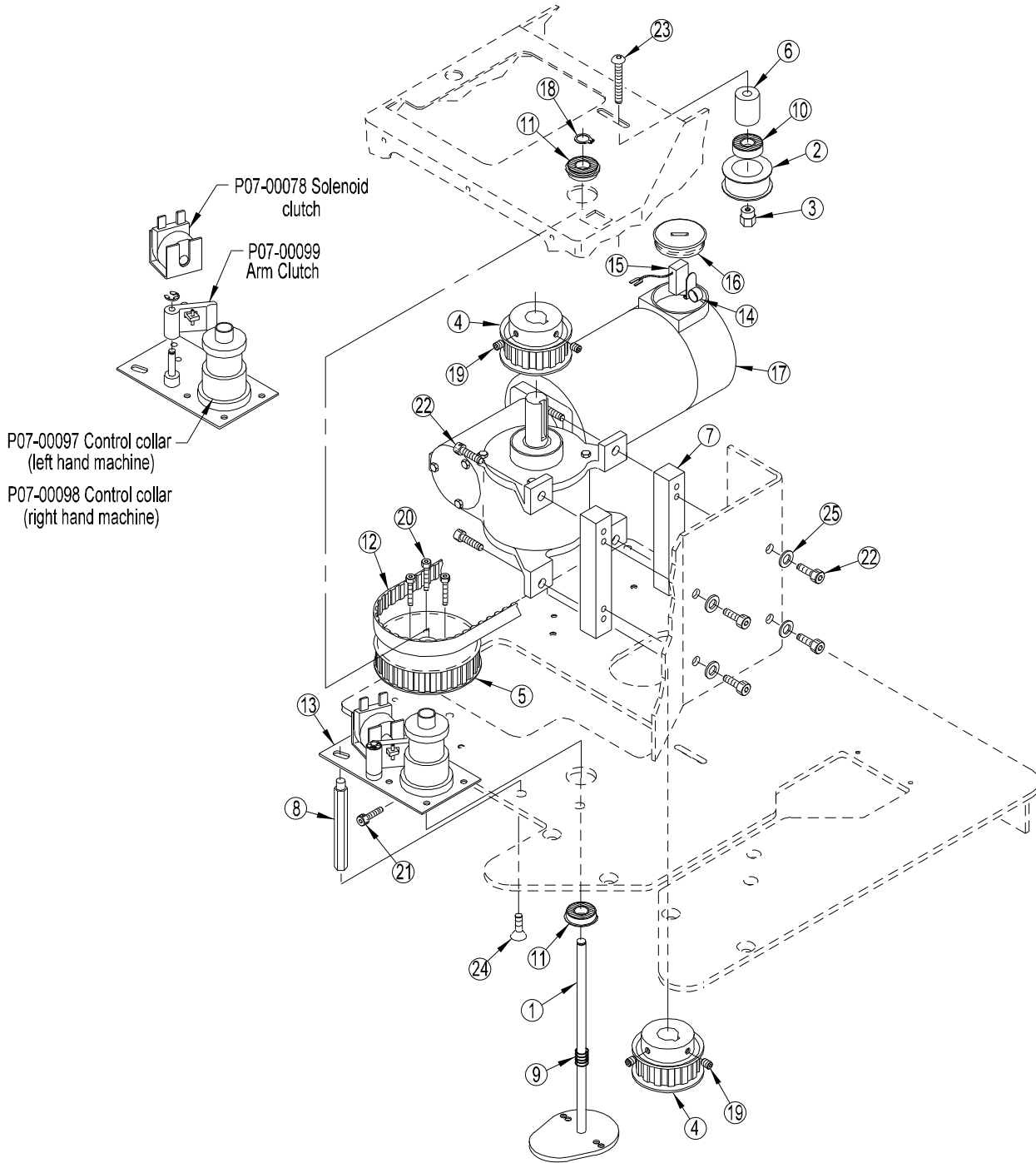


Figure 7.9

**WARNING: DO NOT ORDER BY ITEM NUMBER.**  
 Be sure to order by Part Number and Description. Please list the Serial Number of the machine for which parts are ordered.

## SECTION VII Parts Identification

### MOTOR and DRIVE ASSEMBLY (Figure 7.9)

#### PARTS LIST

Item No.	Part No.	Description	Qty.	Item No.	Part No.	Description	Qty.
1	08-004118	Shaft - Breakoff Cam	1	13	P07-00121 R	Clutch - 12VDC - Includes P07-00078 12VDC Solenoid (right-hand machine)	1
2	08-004129	Pulley - Idler Gearbelt	1				1
3	08-004136	Nut - Pulley - Long	1				
4	08-004137	Pulley - Motor - Model K-NRP, JW-NRP, KW-NRP, JM-NRP, KM57-NRP	2		P07-00121 L	Clutch - 12VDC - Includes P07-00078 12VDC Solenoid (left-hand machine)	1
	08-005391	Pulley - Motor - Model Z-NRP, Z90-NRP	2	14	P11-00417	Spring - Brush	2
5	08-004138	Pulley - Clutch	1	15	P11-00467	Brush - Motor	2
6	08-004141	Spacer - Takeup Pulley	1	16	P11-00694	Cap - Motor Brush	2
7	08-004149	Spacer - Motor Mount Model J-NRP, K-NRP, JW-NRP, KW-NRP	2	17	P21-00149	Gearmotor - Right Angle	1
	08-005418	Spacer - Motor Mount Model Z-NRP, Z90-NRP	2	18	P27-00018	Ring - Retaining	1
8	08-004152	Post - Clutch Mount	1	19	F06-250C06 S	Screw - 1/4-20UNC x 3/8 Lg Skt Set - Standard	4
9	0S-062	Spring - Compression	1		F06-250C04 S	Screw - 1/4-20UNC x 1/4 Lg Skt Set - Model Z-NRP and Z90-NRP	4
10	P02-00095	Bearing	1	20	F10-138C06 S	Screw - 6-32UNC x 3/8 Lg Skt Hd Cap	3
11	P02-00139	Bearing	2	21	F10-164C08 S	Screw - 8-32UNC x 1/2 Lg Skt Hd Cap	1
12	P03-00111	Belt - Gear - Drive - Clutch Model - K-NRP, JW-NRP, KW-NRP, JM-NRP, KM57-NRP	1	22	F10-250C10	Screw - 1/4-20UNC x 5/8 Lg Skt Hd Cap	8
	P03-00129	Belt - Gear - Clutch - Model Z-NRP, Z72-NRP, Z90-NRP	1	23	F11-190F24 S	Screw - 10-32UNF x 1 1/2 Lg Skt Btn Hd	1
				24	F12-190F08 S	Screw - 10-32UNF x 1/2 Lg Skt Flt Hd	1
				25	F14-252 S	Washer	4

# SECTION VII

## Parts Identification

**WARNING: DO NOT ORDER BY ITEM NUMBER.**  
Be sure to order by Part Number and Description. Please list the Serial Number of the machine for which parts are ordered.

### LOWER GEARBELT ASSEMBLY

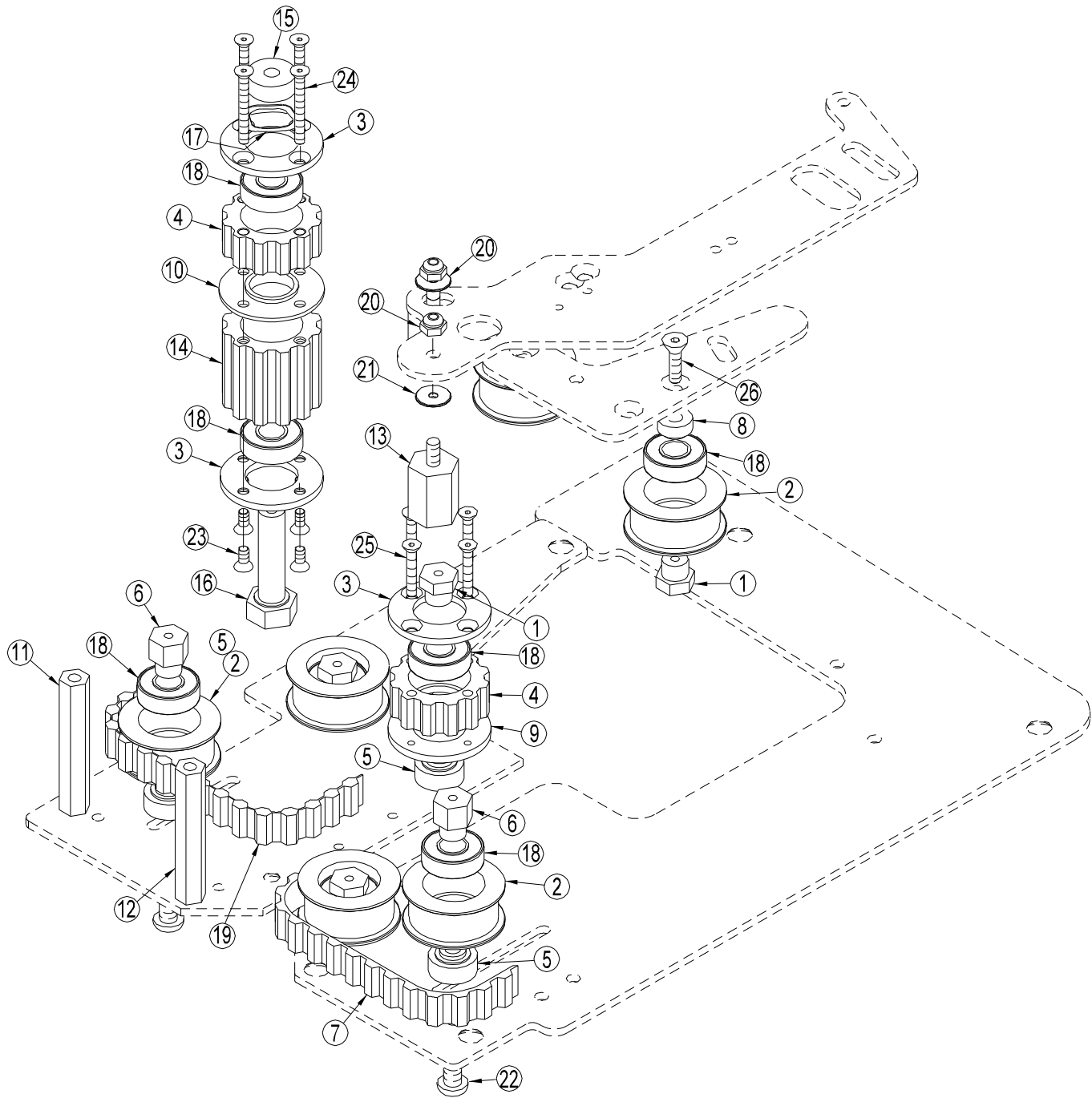


Figure 7.10

**WARNING: DO NOT ORDER BY ITEM NUMBER.**

Be sure to order by Part Number and Description. Please list the Serial Number of the machine for which parts are ordered.

# SECTION VII

## Parts Identification

### LOWER GEARBELT ASSEMBLY

(Figure 7.10)

#### PARTS LIST

Item No.	Part No.	Description	Qty.	Item No.	Part No.	Description	Qty.
1	08-002158	Nut - Pulley - Short	4	17	0S-099	Spring	1
2	08-004129	Pulley - Drive Gearbelt	6	18	P02-00095	Bearing	9
3	08-004132	Flange - Feed Drive Pulley	2	19	P03-00133	Belt - Gear	1
4	08-004133 S	Pulley -Feed Drive	2	20	P23-00220 S	Nut - 10-32UNF - ESNA (low profile)	2
5	08-004134	Spacer - Gearbelt Pulley	6	21	P36-00034	Washer - Nylon	2
6	08-004136	Nut - Pulley Long	2	22	F11-190F12 S	Screw - 10-32UNF x 3/4 Lg Skt Btn Hd	4
7	08-004438	Belt - Gear - Idle	1	23	F12-138C06 S	Screw - 6-32UNC x 3/8" Lg Skt Flt Hd	4
8	08-004140	Spacer - Feed Pulley	2	24	F12-138C16 S	Screw - 6-32UNC x 1" Lg Skt Flt Hd	4
9	08-004558	Flange - Upper Pulley	1	25	F12-138C12 S	Screw - 6/32UNC x 3/4" Lg Skt Flt Hd	4
10	08-004622	Spacer - Feed Drive Pulley	1	26	F12-190F10 S	Screw - 10-32UNF x 5/8" Lg Skt Flt Hd	2
11	08-005417	Post - Lower Plate Mounting	8				
12	08-005427	Post - Lower Plate Mounting (model BG and DG only)	2				
13	08-005511	Post - Upper Belt Plate	3				
14	08-005512	Pulley - Feed Drive	1				
15	08-005550	Spacer - Feed Pulley	1				
16	08-005559	Axle - Feed Pulley	1				

# SECTION VII Parts Identification

**WARNING: DO NOT ORDER BY ITEM NUMBER.**  
Be sure to order by Part Number and Description. Please list the Serial Number of the machine for which parts are ordered.

## ELECTRICAL CONTROL BOX

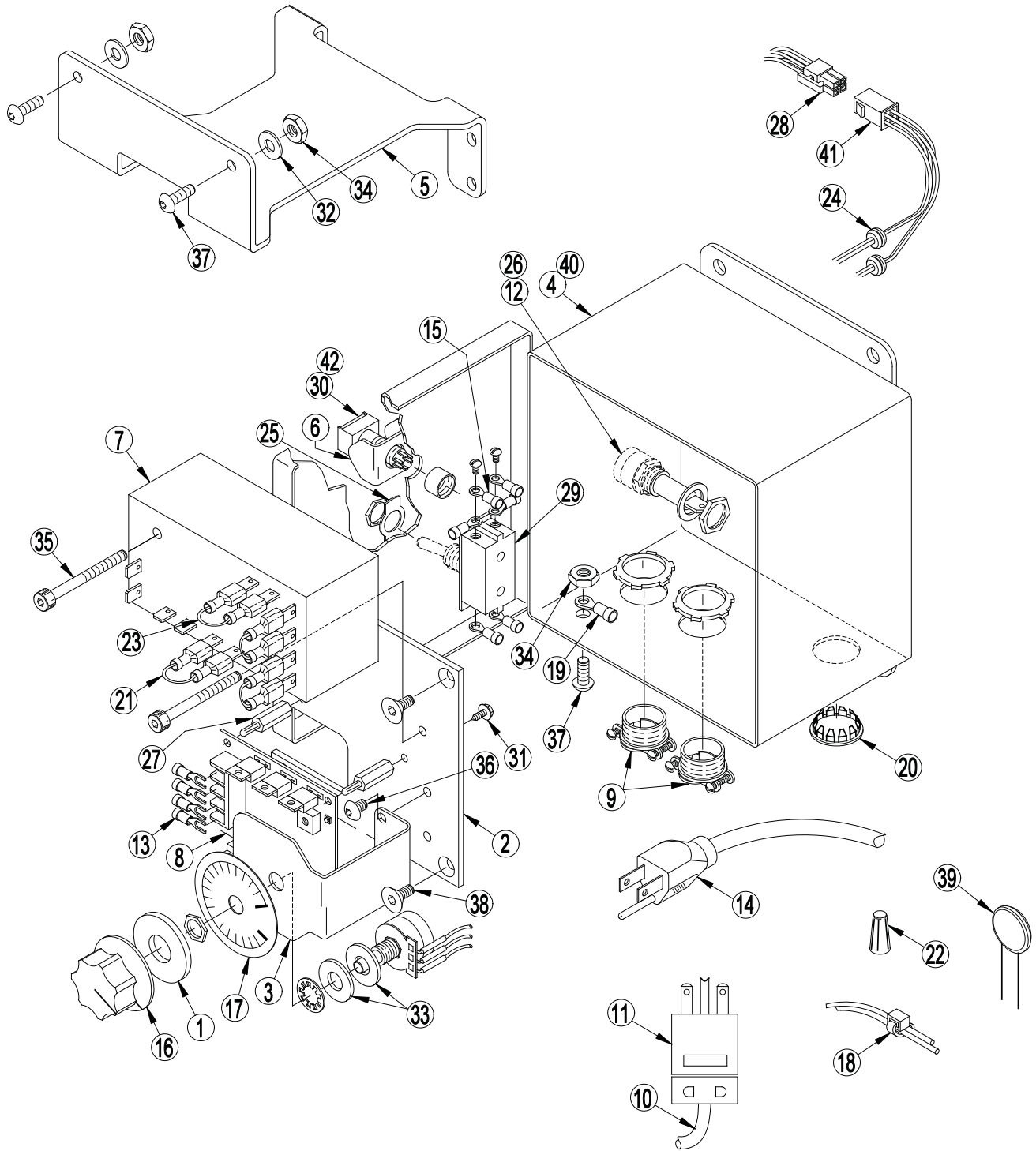


Figure 7.11



**WARNING: DO NOT ORDER BY ITEM NUMBER.**

Be sure to order by Part Number and Description. Please list the Serial Number of the machine for which parts are ordered.

# SECTION VII

## Parts Identification

### ELECTRICAL CONTROL BOX

(Figure 7.11)

#### PARTS LIST

Item No.	Part No.	Description	Qty.	Item No.	Part No.	Description	Qty.
1	08-002862	Washer - Control Knob	1	18	P11-00098	Tie - Cable	4
2	08-004107 R	Plate - Control Mounting (right-hand machine)	1	19	P11-00144	Terminal - Closed Loop 18Ga	2
	08-004107 L	Plate Control Mounting (left-hand machine)	1		P11-00109	Terminal - Closed Loop 14-16Ga	2or3
3	08-004108	Mount - Speed Pot	1	20	P11-00133 S	Plug - 7/8 Hole	1
4	08-004109 R	Box - Electrical (right-hand machine)	1	21	08-004582	Cable	2or3
	08-004109 L	Box - Electrical (left-hand machine)	1	22	P11-00609	Nut - Two Wire	2
5	08-004262 R	Bracket - Electrical Box Mount (right-hand machine)	1	23	P11-00274	Terminal - Quick Connect	10
	08-004262 L	Bracket - Electrical Box Mount (left-hand machine)	1	24	P11-00277	Grommet	2
6	08-004680	Shield - Pushbutton	1	25	P11-00282	Plate - On- Off Switch	1
7	P10-00023	Module - Solenoid	1	26	P11-00415	Fuse	1
8	P10-00058	Control - DC Motor	1	27	P11-00418	Standoff - 3/4	4
9	P11-00005	Connector - Two Screw	1	28	08-005162	Cable - Closing Head	1
10	P11-00014	Cord - 18-3 Wire - 230VAC	72"	29	P12-00043	Switch - Toggle	1
	P11-00736	Cord - 16-3 Wire 230VAC - International	72"	30	P12-00179	Switch - Manual Cycle	1
11	P11-00033	Plug - Two Pole Tandem 230VAC	1	31	P23-00219	Screw - No 6 x 1/2 Lg Sheet Metal	4
12	P11-00042	Holder - Fuse	1	32	F01-190 S	Washer - No 10 Flat	2
13	P11-00044	Terminal - Open End	6	33	F01-375	Washer - 3/8 Flat	2
14	P11-00064	Cord - 18-3SJ (115VAC operation)	1	34	F03-190F S	Nut - 10-32UNF - Hex	6
15	P11-00066	Terminal - Closed Loop 18Ga	2 or 4	35	F10 -190F32 S	Screw - 10-32UNF x 2 Lg Skt Hd Cap	2
	P11-00221	Terminal - Closed Loop 16Ga	2	36	F11-190F04 S	Screw - 10-32UNF x 1/4 Lg Skt Btn Hd	2
16	P11-00079	Knob - Control	1	37	F11-190F08 S	Screw - 10-32UNF x 1/2 Lg Skt Btn Hd	3
17	P11-00081	Plate - Dial - Speed Pot	1	38	F12-190F06 S	Screw - 10-32UNF x 3/8 Lg Skt Flt Hd	4
				39	08-005490	Surge Suppressor (high voltage only)	1
				40	P11-00617	Latch - Door	1
				41	08-005163	Cable - Electrical Box	1
				42	P11-00484	Terminal	4

# SECTION VII Parts Identification

**WARNING: DO NOT ORDER BY ITEM NUMBER.**  
Be sure to order by Part Number and Description. Please list the Serial Number of the machine for which parts are ordered.

## LOK GUIDE ASSEMBLY

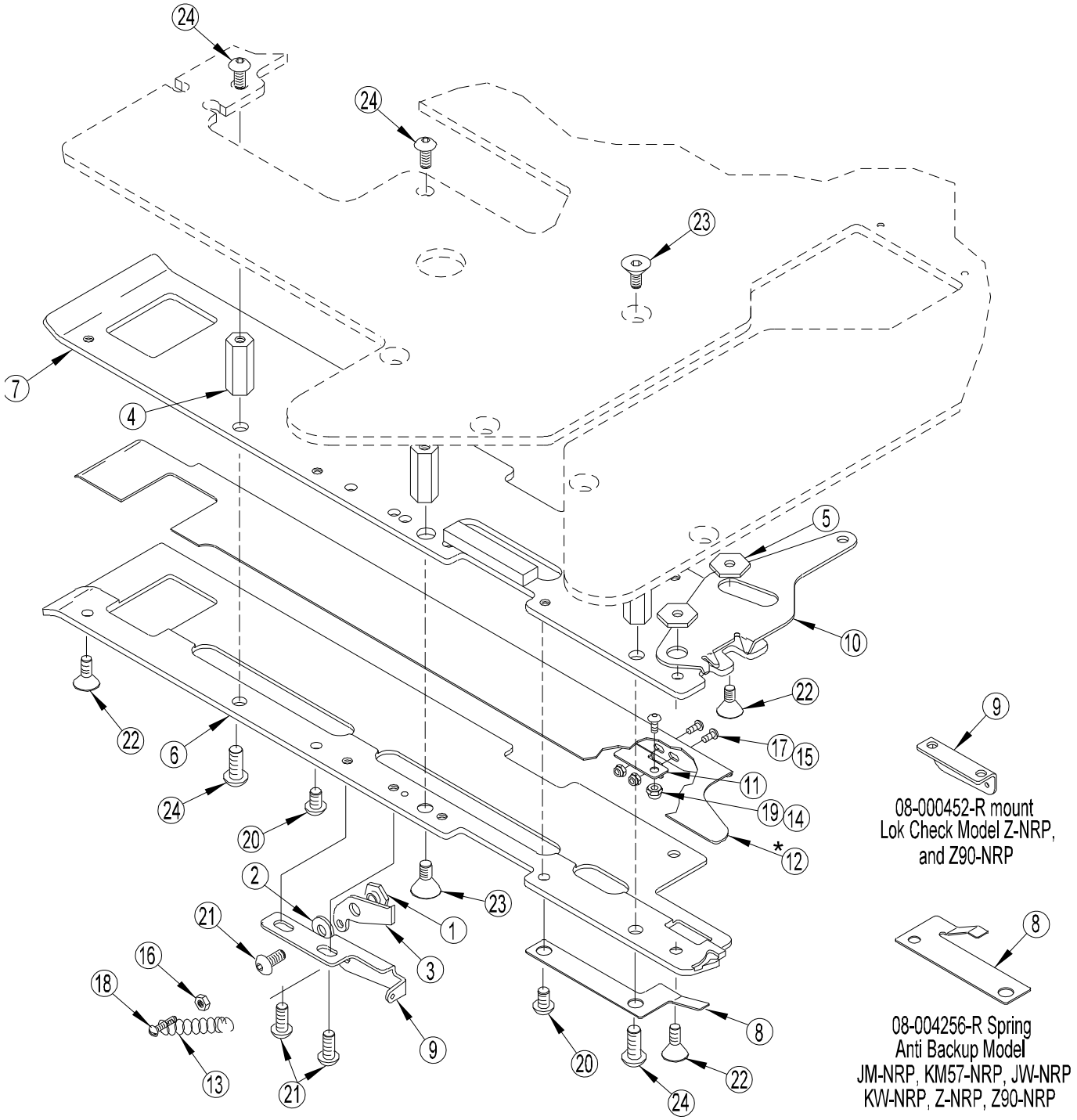


Figure 7.12

**WARNING: DO NOT ORDER BY ITEM NUMBER.**

Be sure to order by Part Number and Description. Please list the Serial Number of the machine for which parts are ordered.

# SECTION VII Parts Identification

## LOK GUIDE ASSEMBLY

(Figure 7.12)

### PARTS LIST

Item No.	Part No.	Description	Qty.	Item No.	Part No.	Description	Qty.
1	08-000075	Pivot - Lok Check	1		08-004253 SR	Guide - KW-NRP Lok Track (right-hand machine)	1
2	08-000076	Washer - Lok Check	1		08-004253 SL	Guide - KW-NRP Lok Track (left-hand machine)	1
3	08-000451	Check - Lok	1		08-005434 R	Guide - Z-NRP Lok Track (right-hand machine)	
4	08-004102	Post - Track Mounting	3		08-005434 L	Guide - Z-NRP Lok Track (left-hand machine)	1
5	08-004154	Mount - Breakoff Link	2		08-004867 R	Guide - Z72-NRP, Z90-NRP Lok Track (right-hand machine)	1
6	08-004656 R	Spacer - J-NRP/K-NRP Lok Guide (right-hand machine)	1		08-004867 L	Guide - Z72-NRP, Z90-NRP Lok Track (left-hand machine)	1
	08-004656 L	Spacer - J-NRP/K-NRP Lok Guide (left-hand machine)	1		08-004916 R	Guide - KM57-NRP Lok Track (right-hand machine)	1
	08-004657 R	Spacer JM-NRP, KM57-NRP Lok Guide (right-hand machine)	1		08-004916 L	Guide - KM57-NRP Lok Track (left-hand machine)	1
	08-004657 L	Spacer - JM-NRP, KM57-NRP Lok Guide (left-hand machine)	1		08-005507 R	Guide - K-NRP Lok Track Three Line (right-hand machine)	1
	08-004658 R	Spacer - JW-NRP, KW-NRP Lok Guide (right-hand machine)	1		08-005507 L	Guide - K-NRP Lok Track Three Line (left-hand machine)	1
	08-004658 L	Spacer - JW-NRP, KW-NRP Lok Guide (left-hand machine)	1	8	08-004701 R	Spring - Anti Backup J-NRP, K-NRP (right-hand machine)	1
	08-004659 R	Spacer - Lok Guide - Z-NRP, Z90-NRP (right-hand machine)	1		08-004701 L	Spring - Anti Backup J-NRP, K-NRP (left-hand machine)	1
	08-004659 L	Spacer - Lok Guide - Z-NRP, Z90-NRP (left-hand machine)	1		08-004256 R	Spring - Anti Backup - JM-NRP, KM57-NRP, JW-NRP, KW-NRP, Z-NRP, Z90-NRP (right-hand machine)	1
7	08-004252 SR	Guide - K-NRP Lok Track (right-hand machine)	1		08-004256 L	Spring - Anti Backup - JM-NRP, KM57-NRP, JW-NRP, KW-NRP, Z-NRP, Z72-NRP, Z90-NRP (left-hand machine)	1
	08-004252 SL	Guide - K-NRP Lok Track (left-hand machine)	1	9	08-004518 R	Mount - Lok Check - J-NRP, K-NRP, JM-NRP, JW-NRP, KW-NRP, KM57-NRP (right-hand machine)	1
	08-004303 SR	Guide - J-NRP Lok Track (right-hand machine)	1		08-004518 L	Mount - Lok Check - J-NRP, K-NRP, JM-NRP, JW-NRP, KW-NRP, KM57-NRP (left-hand machine)	1
	08-004303 SL	Guide - J-NRP Lok Track (left-hand machine)	1				
	08-004561 R	Guide JM-NRP Lok Track (right-hand machine)	1				
	08-004561 L	Guide - JM-NRP Lok Track (left-hand machine)	1				
	08-004315 SR	Guide - JW-NRP Lok Track (right-hand machine)	1				
	08-004315 SL	Guide - JW-NRP Lok Track (left-hand machine)	1				

# SECTION VII

## Parts Identification

**WARNING: DO NOT ORDER BY ITEM NUMBER.**

Be sure to order by Part Number and Description. Please list the Serial Number of the machine for which parts are ordered.

### LOK GUIDE ASSEMBLY

(Figure 7.12)

#### PARTS LIST

Item No.	Part No.	Description	Qty.	Item No.	Part No.	Description	Qty.
	08-000452 SR	Mount - Lok Check - Z-NRP Z90-NRP (right-hand machine)	1		08-004791 R	Shim - Lok Guide - Z-NRP, Z90-NRP (right-hand machine)	1
	08-000452 SL	Mount - Lok Check - Z-NRP Z90-NRP (left-hand machine)	1		08-004791 L	Shim - Lok Guide - Z-NRP, Z90-NRP (left-hand machine)	1
10	08-004597 R	Breaker-Lok-J-NRP or K-NRP (right-hand machine)	1		08-005504 R	Shim - Lok Guide - Three Line J-NRP, K-NRP (right-hand machine)	1
	08-004597 L	Breaker-Lok-J-NRP or K-NRP (left-hand machine)	1		08-005504 L	Shim - Lok Guide - Three Line J-NRP, K-NRP (left-hand machine)	1
	08-004541 R	Breaker - Lok JW-NRP, KW-NRP (right-hand machine)	1	13	0S-006 S	Spring - Lok Check	1
	08-004541 L	Breaker - Lok JW-NRP, KW-NRP (left-hand machine)	1	14	P23-00111 S	Nut - 6-32 ESNA	2
	08-004565 R	Breaker - Lok JM-NRP (right-hand machine)	1	15	P23-00166 S	Nut - 4-40 ESNA	4
	08-004565 L	Breaker - Lok JM-NRP (left-hand machine)	1	16	F03-138C S	Nut - 6-32UNC - Hex	2
	08-005435 R	Breaker - Z-NRP (right-hand machine)	1	17	F07-112C04 S	Screw - 4-40UNC x 1/4 Lg Rd Hd Mach	4
	08-005435 L	Breaker - Z-NRP (left-hand machine)	1	18	F07-138C12 S	Screw - 6-32UNC x 3/4 Lg Rd Hd Mach	1
	08-004869 R	Breaker - Lok - Z90-NRP (right-hand machine)	1	19	F11-138C04 S	Screw - 6-32UNC x 1/4 Lg Skt Btn Hd	2
	08-004869 L	Breaker - Lok - Z90-NRP (left-hand machine)	1	20	F11-190F04 S	Screw - 10-32UNF x 1/4 Lg Skt Btn Hd	2
	08-004917 R	Breaker - Lok - KM57-NRP (right-hand machine)	1	21	F11-190F06 S	Screw - 10-32UNF x 3/8 Lg Skt Btn Hd	3
	08-004917 L	Breaker - Lok - KM57-NRP (left-hand machine)	1	22	F12-190F06 S	Screw - 10-32UNF x 3/8 Lg Skt Flt Hd	3
11	08-004785 R	Spring - Shim Locking (right-hand machine)	2	23	F12-250F08	Screw - 1/4-28UNF x 1/2 Lg Skt Flt Hd	2
	08-004785 L	Spring-Shim Locking (left-hand machine)	2	24	F11-250F08	Screw - 1/4-28UNF x 1/2 Lg Skt Btn Hd	2
12	08-004789 R	Shim - Lok Guide - J-NRP, K-NRP (right-hand machine)	1	* Lok Guide Shim is not used for series JW-NRP, KW-NRP Lok Guides.			
	08-004789 L	Shim - Lok Guide - J-NRP, K-NRP (left-hand machine)	1				
	08-004790 R	Shim - JM-NRP, KM57-NRP Lok Guide (right-hand machine)	1				
	08-004790 L	Shim - JM-NRP, KM57-NRP Lok Guide (left-hand machine)	1				

**WARNING: DO NOT ORDER BY ITEM NUMBER.**  
 Be sure to order by Part Number and Description. Please list the Serial Number of the machine for which parts are ordered.

## SECTION VII Parts Identification

### KIT - MAST - Z8065123

Uses a standard single reel.  
 For use with the 874A printer.  
 See page 7.35 and 7.36.

### KIT - MAST - TURRET Z8065124

Uses the optional turret kit.  
 For use with the 874A printer.  
 See page 7.34 - 7.36.

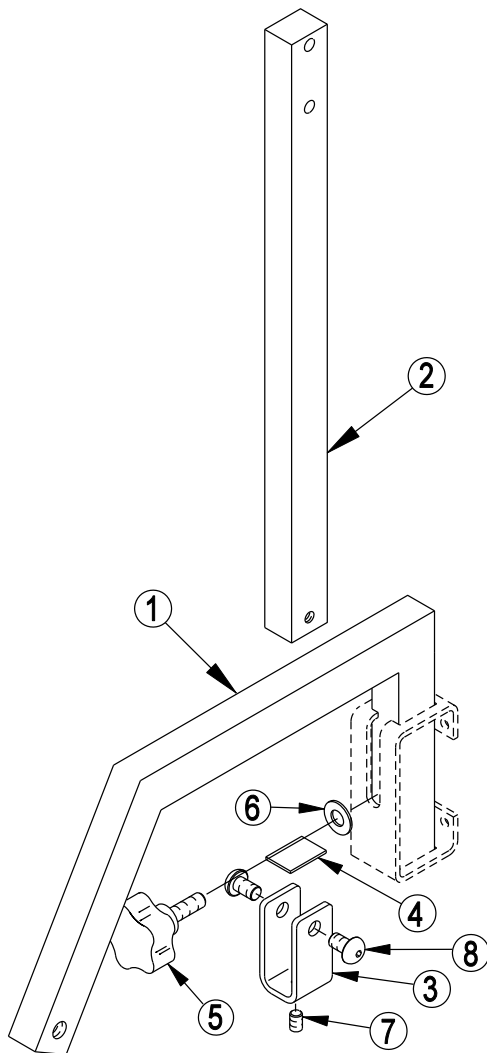


Figure 7.13

#### PARTS LIST

Item No.	Part No.	Description	Qty.
1	08-005497	Bar - Mast - Roller	1
2	08-005498	Mast- Reel - Included with Z8065123	1
	08-005499	Mast - Turret - Included with Z8065124	1
3	08-005500	Clamp - Mast	1
4	08-005501	Plate - Mast Clamp	1
5	P17-00127	Knob - Clamp	1
6	F01-312	Washer - 5/16 Flat	1
7	F06-250C06	Screw - 1/4-20UNC x 3/8 Lg Skt Set	1
8	F11-312C08	Screw - 5/16-18UNC x 1/2 Lg Skt Btn Hd	2

Items listed above make up Z8065123 Kit - Mast or Z8065124 Kit - Turret Mast W/ Printer and may be ordered as such.

# SECTION VII

## Parts Identification

**WARNING: DO NOT ORDER BY ITEM NUMBER.**  
 Be sure to order by Part Number and Description. Please list the Serial Number of the machine for which parts are ordered.

### KIT - MAST - Z8065184

Uses a standard single reel.  
 For use with no printer  
 or with the 897C printer.  
 See page 7.35 and 7.36.

### KIT - MAST - TURRET Z8065172

Uses the optional turret kit.  
 For use with no printer  
 or with the 897C printer.  
 See page 7.34 - 7.36.

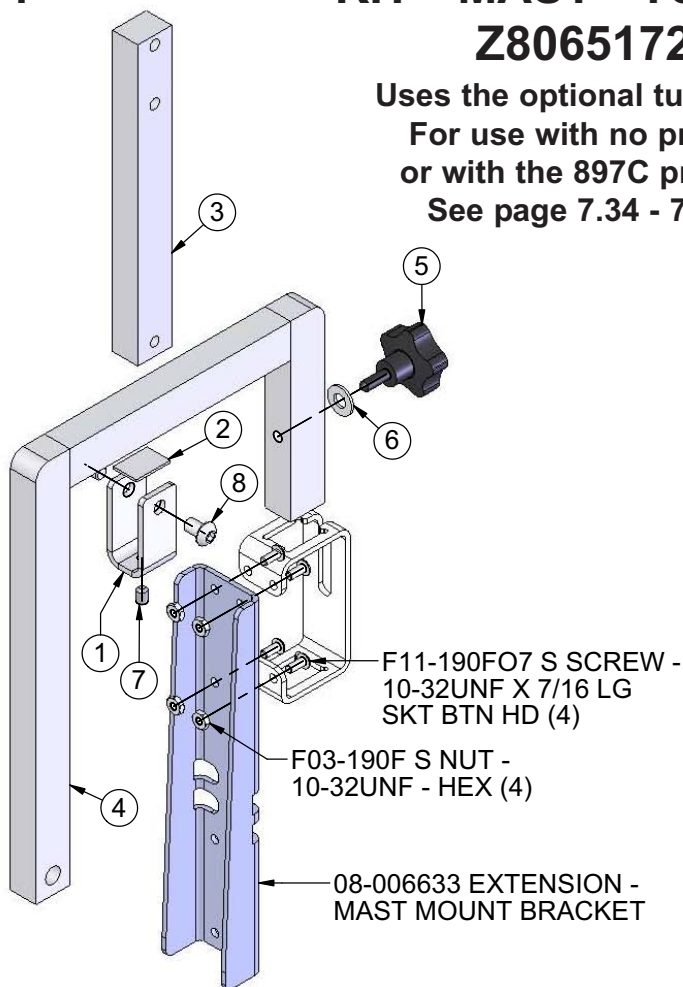


Figure 7.14

### PARTS LIST

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	08-005500	CLAMP - MAST	1
2	08-005501	PLATE - MAST CLAMP	1
3	08-006033	MAST - REEL	1
	08-006424	MAST - TURRET	1
4	08-006422	BAR - MAST ROLLER	1
5	P17-00127	KNOB	1
6	F01-312	WASHER - 5/16 FLAT	1
7	F06-250C06	SCREW - 1/4-20UNC X 3/8 LG SKT SET	1
8	F11-312C08	SCREW - 5/16-18UNC X 1/2 LG SKT BTN HD	2

**WARNING: DO NOT ORDER BY ITEM NUMBER.**  
 Be sure to order by Part Number and Description. Please list the Serial Number of the machine for which parts are ordered.

## SECTION VII Parts Identification

### KIT - MAST - LOW PROFILE Z8065188

Uses a standard single reel.  
 For use with no printer  
 or with the 897C printer.  
 See page 7.35 - 7.36.

### KIT - MAST - LOW PROFILE TURRET Z8065189

Uses the optional turret kit.  
 For use with no printer  
 or with the 897C printer.  
 See page 7.34 - 7.36.

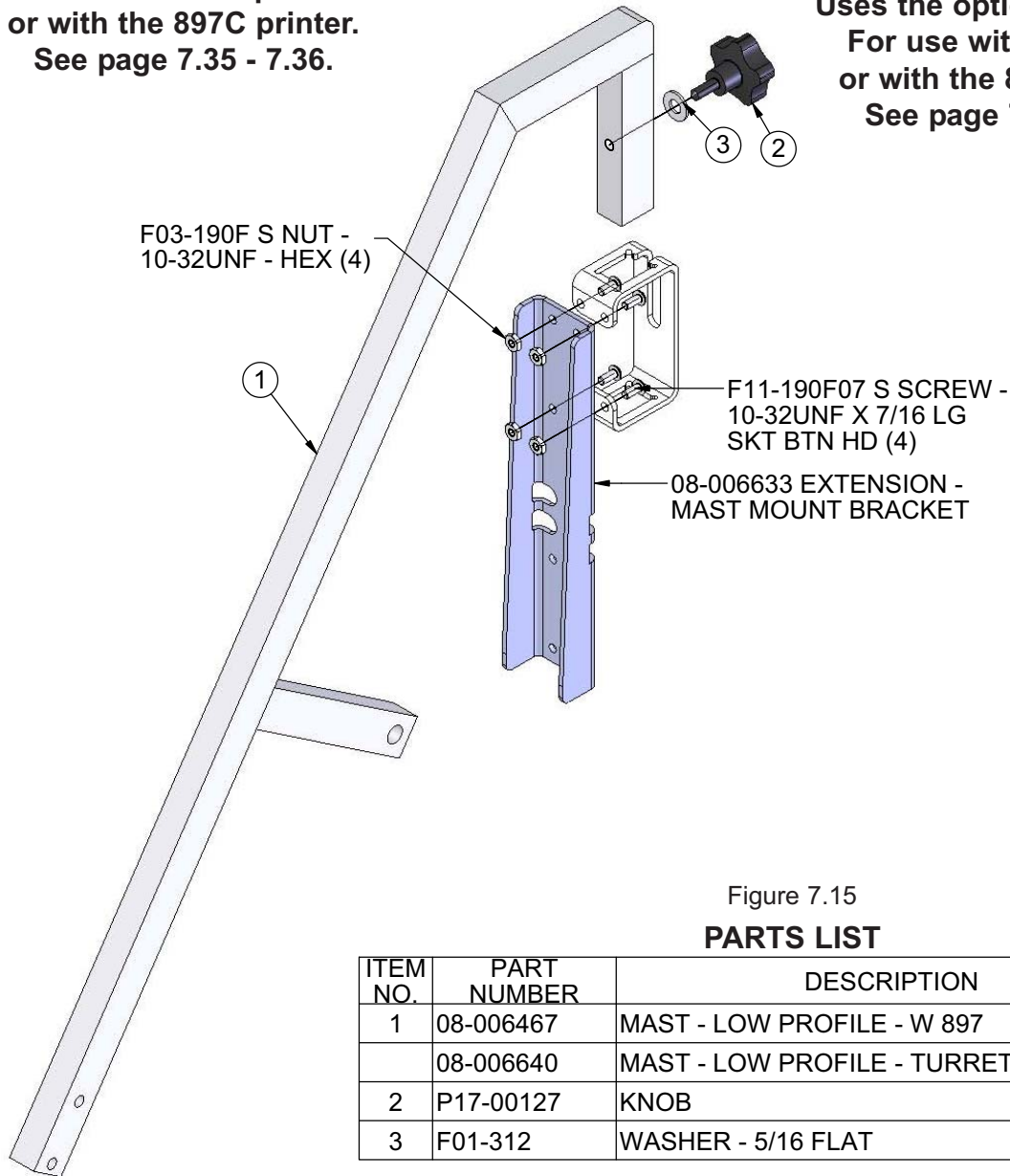


Figure 7.15

#### PARTS LIST

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	08-006467	MAST - LOW PROFILE - W 897	1
	08-006640	MAST - LOW PROFILE - TURRET - W 897	1
2	P17-00127	KNOB	1
3	F01-312	WASHER - 5/16 FLAT	1

# SECTION VII Parts Identification

**WARNING: DO NOT ORDER BY ITEM NUMBER.**  
Be sure to order by Part Number and Description. Please list the Serial Number of the machine for which parts are ordered.

## KIT - MAST - Z8094005

Uses a standard single reel.  
For use with no printer  
or with the 894C printer.  
See page 7.35 and 7.36.

## KIT - MAST - TURRET Z8094006

Uses the optional turret kit.  
For use with no printer  
or with the 894C printer.  
See page 7.34 - 7.36.

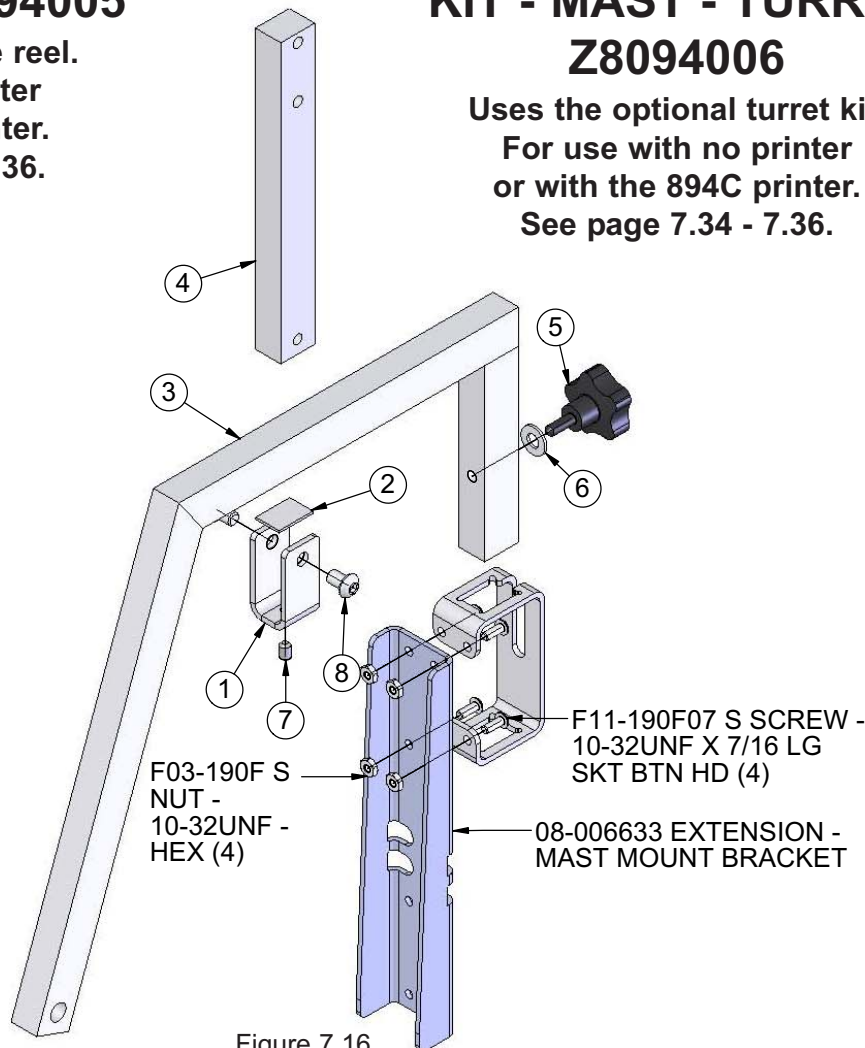


Figure 7.16

### PARTS LIST

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	08-005500	CLAMP - MAST	1
2	08-005501	PLATE - MAST CLAMP	1
3	08-006032	BAR - MAST ROLLER	1
4	08-006033	MAST - REEL	1
	08-006034	MAST - TURRET	1
5	P17-00127	KNOB	1
6	F01-312	WASHER - 5/16 FLAT	1
7	F06-250C06	SCREW - 1/4-20UNC X 3/8 LG SKT SET	1
8	F11-312C08	SCREW - 5/16-18UNC X 1/2 LG SKT BTN HD	2



**WARNING: DO NOT ORDER BY ITEM NUMBER.**  
 Be sure to order by Part Number and Description. Please list the Serial Number of the machine for which parts are ordered.

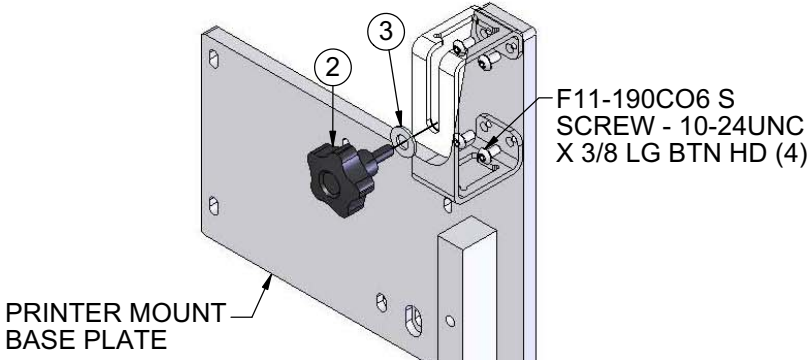
# SECTION VII Parts Identification

## KIT - MAST - LOW PROFILE Z8065190

Uses a standard single reel.  
 For use with the 894C printer.  
 See page 7.35 and 7.36.

## KIT - MAST - LOW PROFILE TURRET Z8094007

Uses the optional turret kit.  
 For use with the 894C printer.  
 See page 7.34 - 7.36.



### PARTS LIST

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	08-006031	MAST - LOW PROFILE TURRET - 894C	1
	08-006039	MAST - LOW PROFILE	1
2	P17-00127	KNOB	1
3	F01-312	WASHER - 5/16 FLAT	1

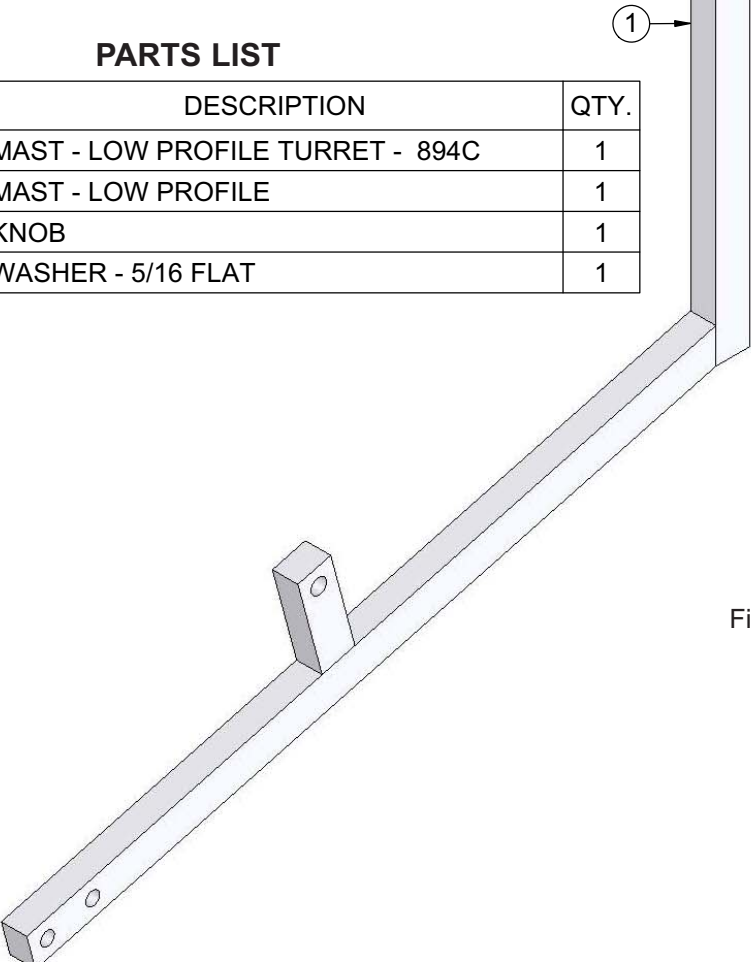


Figure 7.17

# SECTION VII Parts Identification

**WARNING: DO NOT ORDER BY ITEM NUMBER.**  
Be sure to order by Part Number and Description. Please list the Serial Number of the machine for which parts are ordered.

## ROLLER UNCOILER

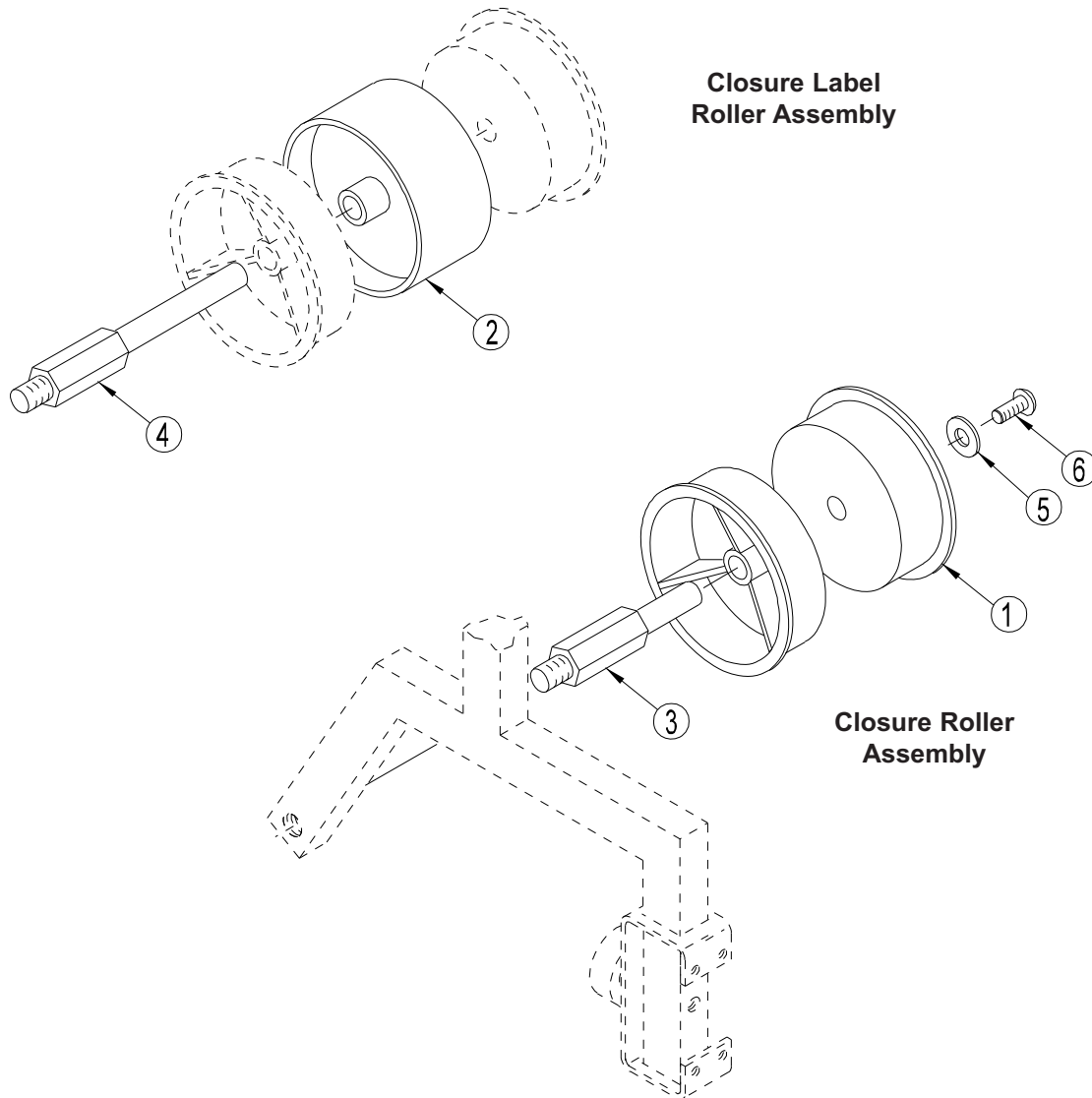


Figure 7.19  
**PARTS LIST**

Item No.	Part No.	Description	Qty.
1	08-004705	Roller - Lok Guide	2
2	08-004706	Roller - Center - Lok Guide	1
3	08-004707	Shaft - Lok Roller Closures Only	1
4	08-004708	Shaft - Lok Roller Closures / Closure Labels	1
5	0W-002	Washer	1
6	F11-250F06	Screw - 1/4-28UNF x 3/8 Lg Skt Btn Hd	1

**WARNING: DO NOT ORDER BY ITEM NUMBER.**  
 Be sure to order by Part Number and Description. Please list the Serial Number of the machine for which parts are ordered.

## SECTION VII Parts Identification

### TURRET KIT

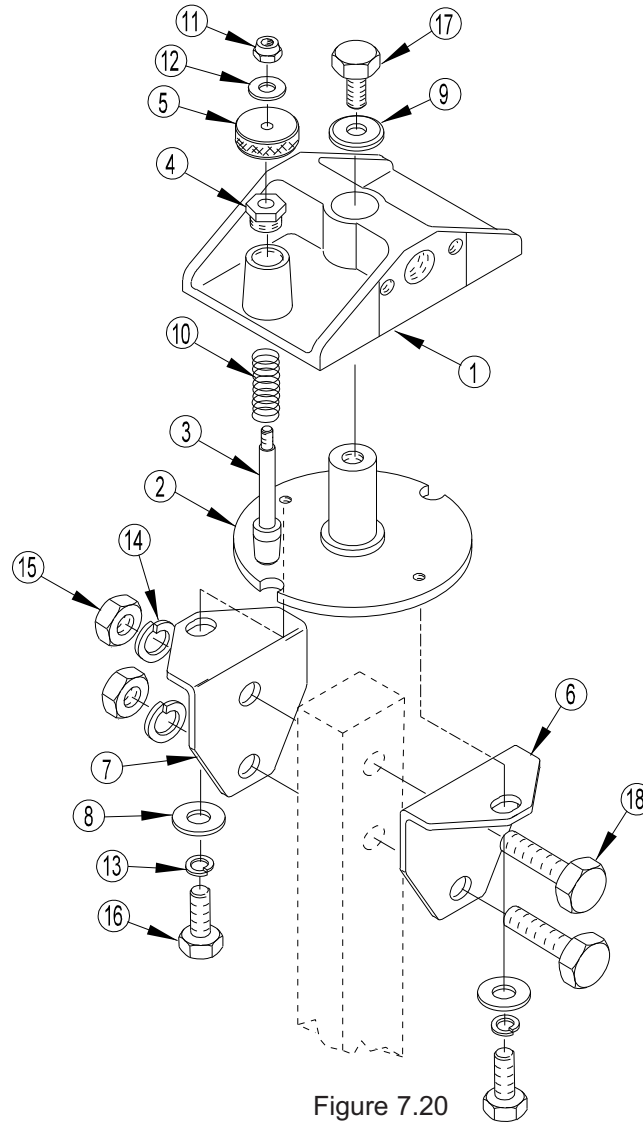


Figure 7.20

#### PARTS LIST

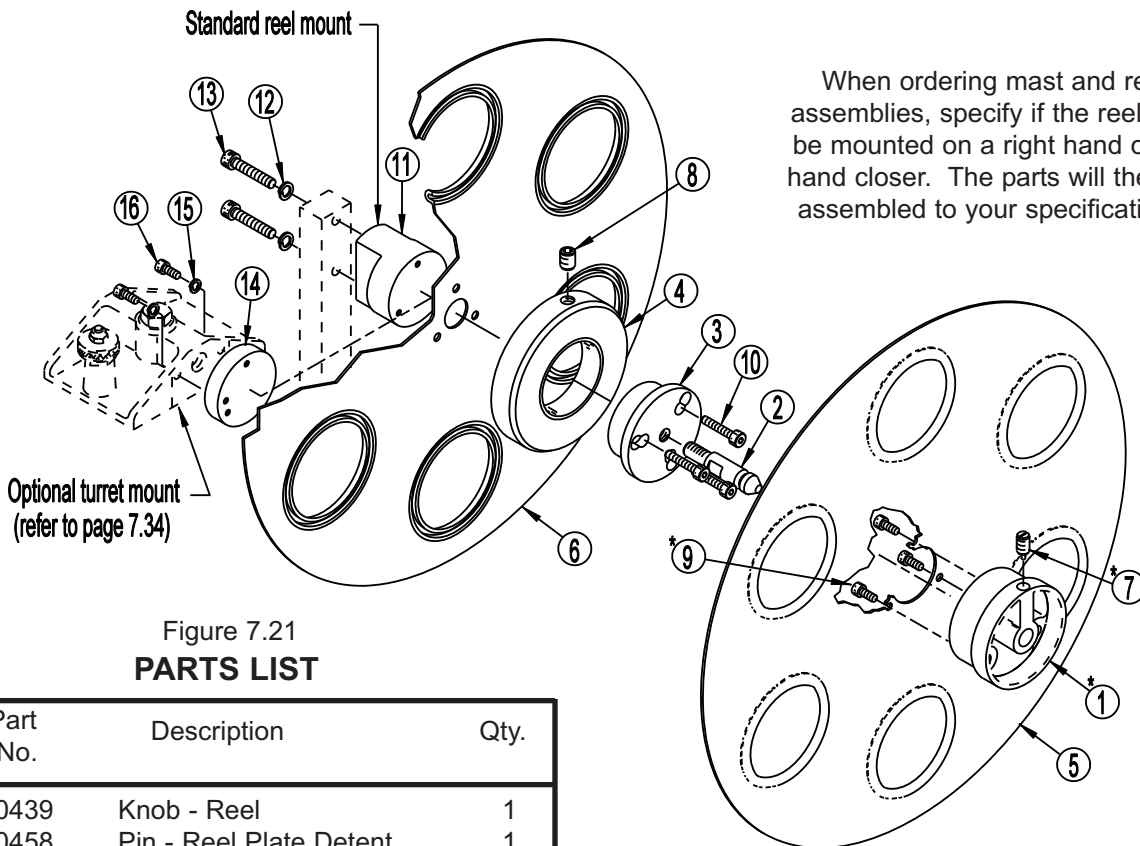
Item No.	Part No.	Description	Qty.	Item No.	Part No.	Description	Qty.
1	08-000746	Plate - Reel Mounting - Turret	1	13	F02-250	Washer - 1/4 Lock	2
2	08-001067	Mount - Turret	1	14	F02-375	Washer - 3/8 Lock	2
*3	08-001445	Pin - Turret Lock	1	15	F03-375F	Nut - 3/8-24UNF - Hx	2
*4	08-001446	Bushing - Turret Lock Pin	1	16	F13-250F08	Screw - 1/4-28UNF x 1/2 Lg Hx Hd	2
*5	08-001447	Knob - Turret Lock Pin	1	17	F13-375F08	Screw - 3/8-24UNF x 1/2 Lg Hx Hd	1
6	08-004567	Bracket - Turret Mount Short	1	18	F13-375F24	Screw - 3/8-24UNF x 1 1/2 Lg Hx Hd	2
7	08-004568	Bracket - Turret Mount Long	1				
8	0W-002	Washer - 1/4 Flat	2				
9	0W-004	Washer	1				
*10	0S-045	Spring	1				
*11	P23-00061	Nut - 10-32UNF - Esna - Hex	1				
*12	F01-190 S	Washer - No 10 Flat	1				

\*These items make up Kit - Turret Knob Z80040111 and may be ordered as such.

# SECTION VII Parts Identification

**WARNING: DO NOT ORDER BY ITEM NUMBER.**  
Be sure to order by Part Number and Description. Please list the Serial Number of the machine for which parts are ordered.

## REEL ASSEMBLIES



When ordering mast and reel assemblies, specify if the reel is to be mounted on a right hand or left hand closer. The parts will then be assembled to your specifications.

Figure 7.21  
**PARTS LIST**

Item No.	Part No.	Description	Qty.
*1	08-000439	Knob - Reel	1
2	08-000458	Pin - Reel Plate Detent	1
3	08-001698	Hub - Reel Bearing Model J-NRP or K-NRP	1
	08-003058	Hub - Reel Bearing Model JM-NRP or KM57-NRP	1
	08-001713	Hub - Reel Bearing Model JW-NRP, KW-NRP, Z-NRP or Z90-NRP	1
4	08-001699	Bearing - Reel Hub Model J-NRP or K-NRP	1
	08-003059	Bearing - Reel Hub Model JM-NRP or KM57-NRP	1
	08-001710	Bearing - Reel Hub Model JW-NRP, KW-NRP, Z-NRP or Z90-NRP	1
5	08-003980	Plate - Front Reel	1
6	08-003981	Plate - Rear Reel	1
*7	P17-00017	Plunger	1
8	P17-00038	Plunger	1
*9	F10-190C06 S	Screw - 10-24UNC x 3/8 Lg Skt Hd Cap	3
10	F10-190C14 S	Screw - 10-24UNC x 7/8 Lg Skt Hd Cap - Model J-NRP and K-NRP	3

Item No.	Part No.	Description	Qty.
	F10-190C28 S	Screw - 10-24UNC x 1 3/4 Lg Skt Hd Cap - Model JM-NRP and KM57-NRP	3
	F10-190C32 S	Screw - 10-24UNC x 2 Lg Skt Hd Cap - Model JW-NRP, KW-NRP, Z-NRP, Z-90-NRP	3
11	08-004162	Spacer - Reel Mount (standard)	1
12	F02-250	Washer - 1/4 Lock	2
13	F10-250C20	Screw - 1/4-20UNC x 1 1/4 Lg Skt Hd Cap	2
14	08-004569	Spacer - Reel Mount (optional with turret)	1
15	F02-190 S	Washer - No 10 Lock	2
16	F10-190C08 S	Screw - 10-24UNC x 1/2 Lg Skt Hd Cap	2

\* These items make up Kit - Knob Assembly - Z8004020 and may be ordered as such.

**WARNING: DO NOT ORDER BY ITEM NUMBER.**  
 Be sure to order by Part Number and Description. Please list the Serial Number of the machine for which parts are ordered.

## SECTION VII Parts Identification

### LABEL CASSETTE REEL ASSEMBLIES

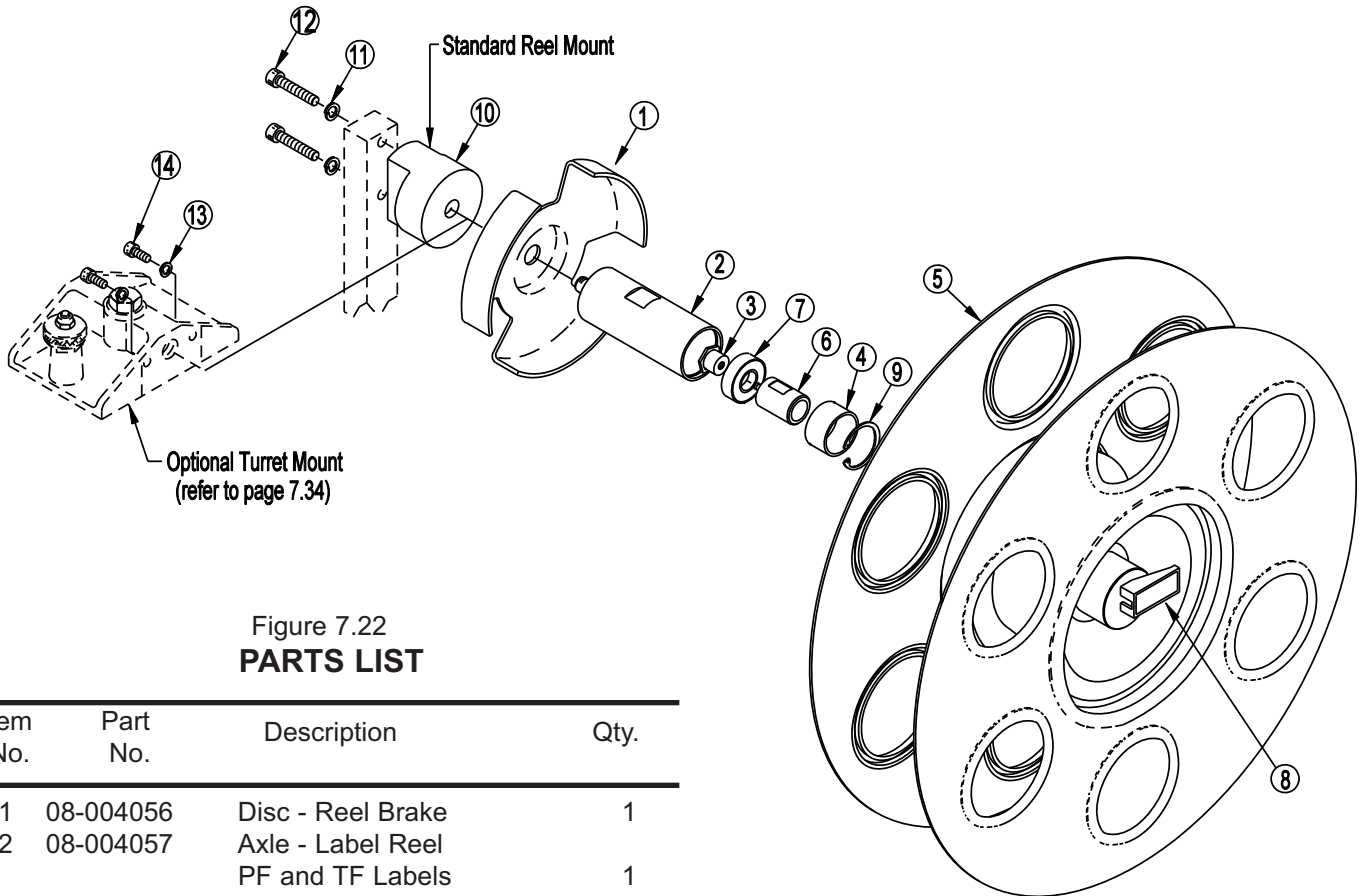


Figure 7.22  
**PARTS LIST**

Item No.	Part No.	Description	Qty.
1	08-004056	Disc - Reel Brake	1
2	08-004057	Axle - Label Reel PF and TF Labels	1
	08-005520	Axle - CFJ Label Reel	1
	08-005631	Axle - M Label Reel	1
3	08-004058	Shaft - Reel Latch Bearing	1
4	08-004059	Bushing - Reel Bearing	1
5	08-005386	Reel - PF or TF Labels	1
	08-005429	Reel - PFM, TFM, TFZ Labels	1
	08-005521	Reel - CFJ Label	1
	08-005630	Reel - M Label	1
6	08-004872	Hub - Latch Mounting	1
7	P02-00031	Bearing	1
*8	P17-00082	Latch	3
9	P27-00068	Ring - Retaining	1
10	08-004266	Spacer - Label Reel (standard)	1
	08-005632	Spacer - M Reel Mount	1
11	F02-250	Washer - 1/4 Lock	2
12	F10-250C20	Screw - 1/4-20UNC x 1 1/4 Lg Skt Hd Cap	2
13	F02-190S	Washer - No 10 Lock	2
14	F10-190C08 S	Screw - 10-24UNC x 1/2 Lg Skt Hd Cap	2

\* Three latches are included with item 5. Latches can be ordered separately. Refer to item 8, this page.

# SECTION VII

## Parts Identification

**WARNING: DO NOT ORDER BY ITEM NUMBER.**  
 Be sure to order by Part Number and Description. Please list the Serial Number of the machine for which parts are ordered.

### 865 CLOSER NOSE GUARDS

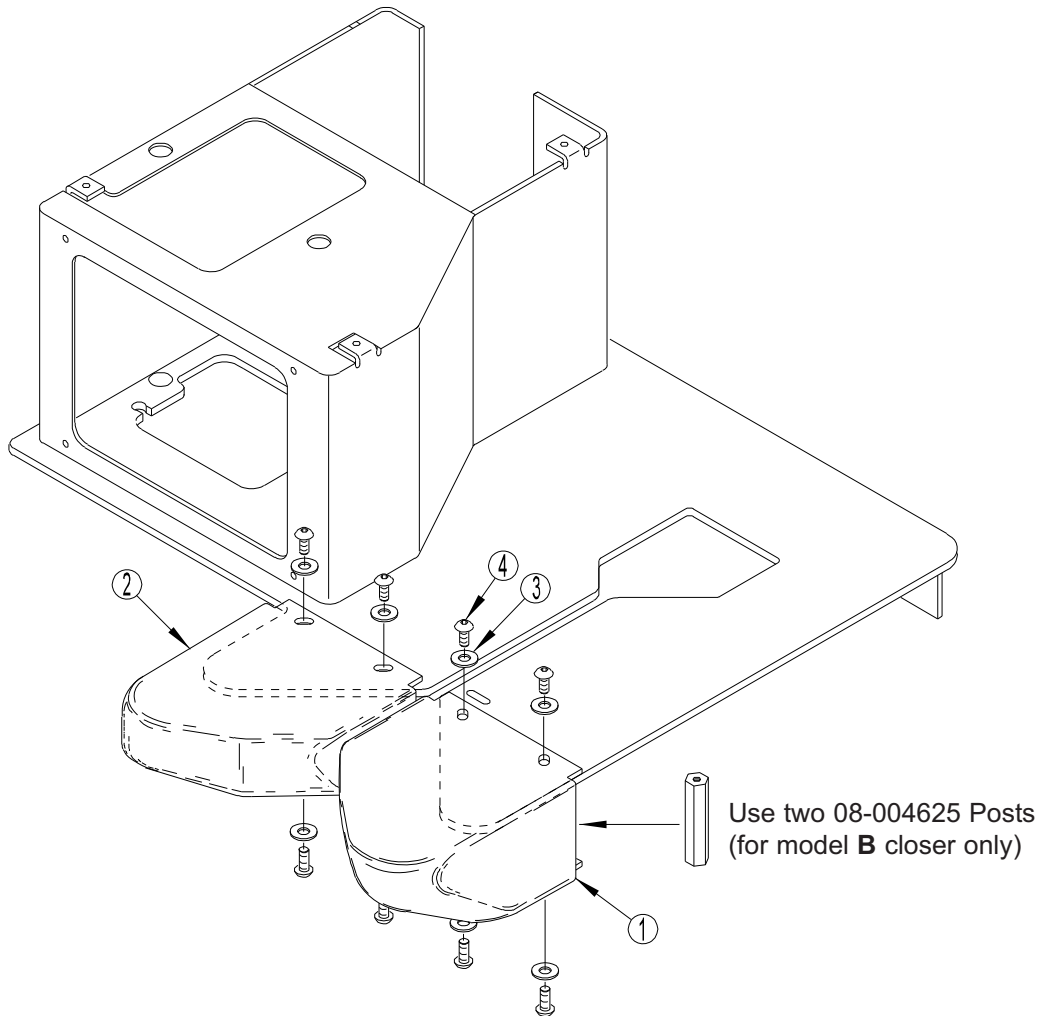


Figure 7.23

#### PARTS LIST

Item No.	Part No.	Description	Qty.
1	08-004557 R	Guard - Nose - Standard (right-hand side)	1
	08-005468 R	Guard - Nose - Model G (right-hand machine)	1
2	08-004557 L	Guard - Nose - Standard (left-hand side)	1
	08-005468 L	Guard - Nose - Model G (left-hand machine)	1
3	F01-190 S	Washer - No 10 Flat	8
4	F11-190F05 S	Screw - 10 - 32UNF x 5/16 Lg Skt Btn Hd	8

# SECTION VIII Wiring Diagrams

## 865A WIRING DIAGRAM 115VAC 230VAC DOMESTIC

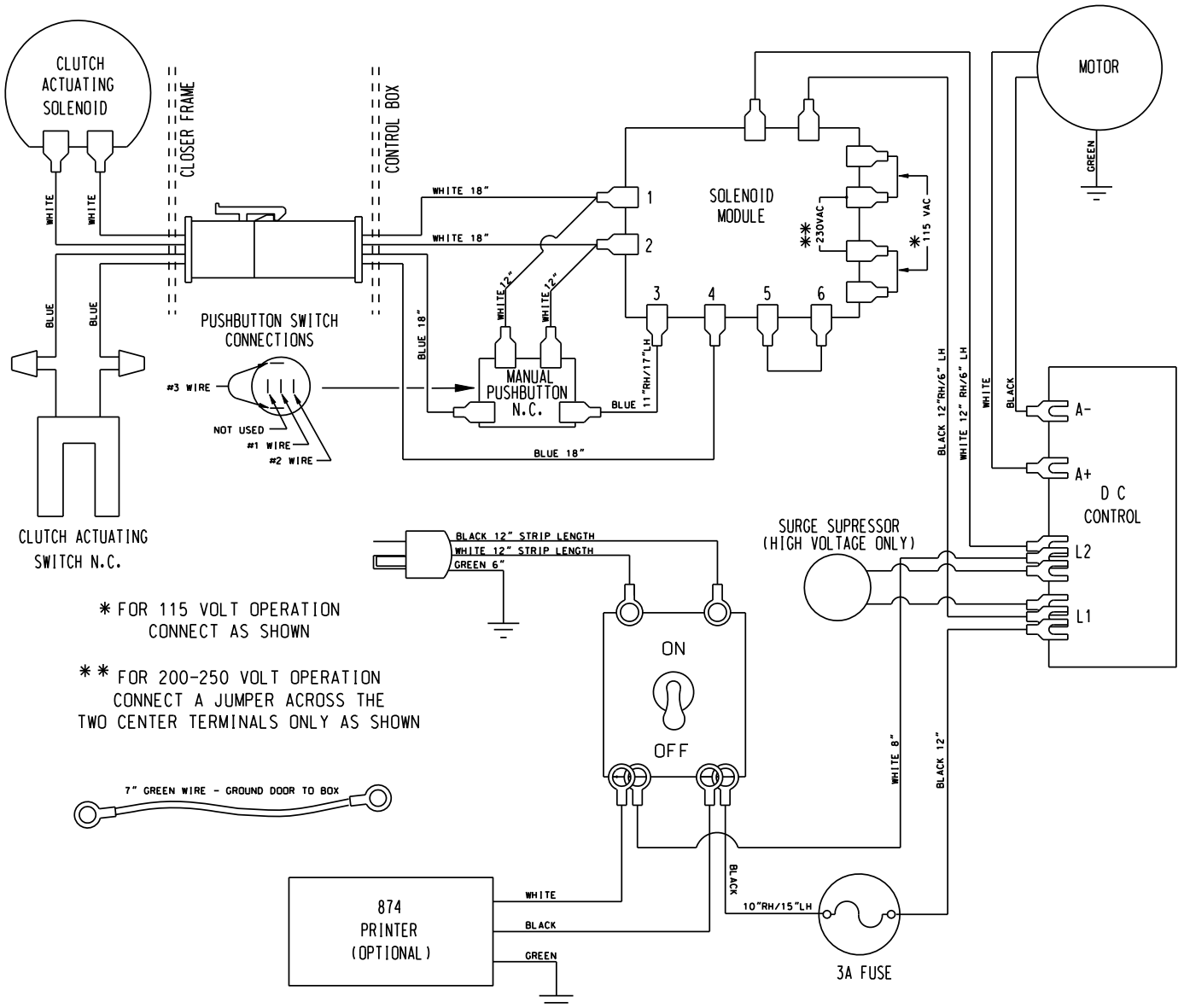


Figure 8.1

# SECTION VIII Wiring Diagram

## 865A WIRING DIAGRAM 230VAC INTERNATIONAL

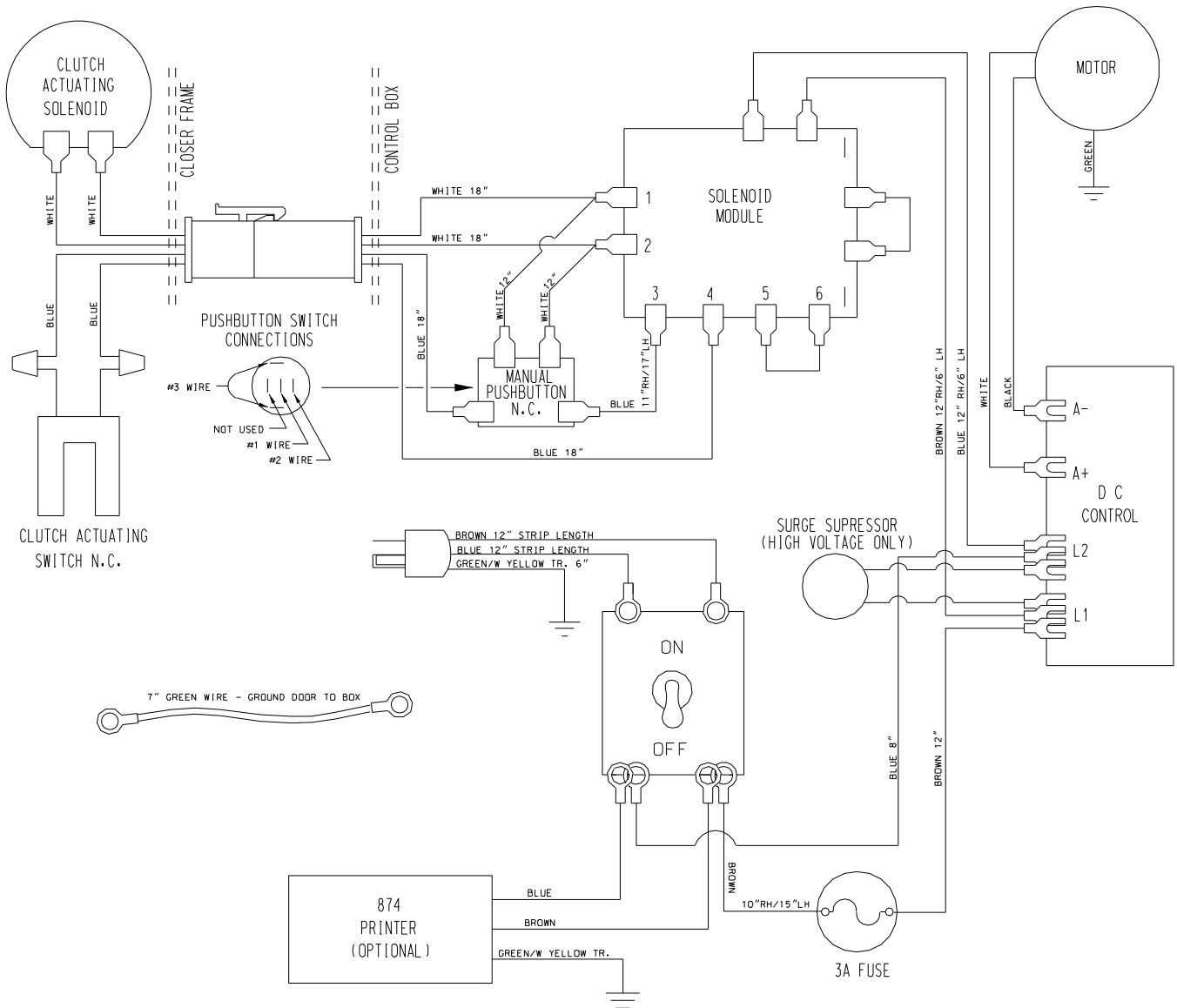
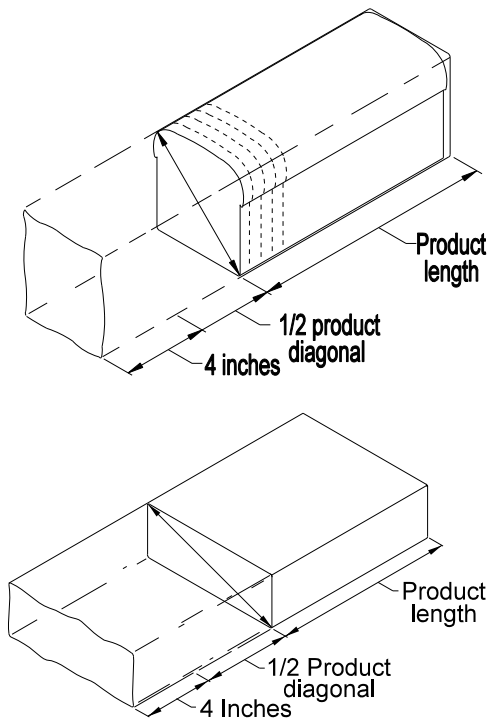


Figure 8.2



## BAG LENGTH FORMULAS



TO DETERMINE THE PROPER BAG LENGTH \* FOR A CONSISTENTLY SHAPED PRODUCT (E.G. Bread, Bun Clusters, Trays, English Muffins, etc.) FOLLOW THIS FORMULA:

TOTAL BAG LENGTH EQUALS LENGTH OF PRODUCT PLUS 1/2 OF THE DIAGONAL OF THE PRODUCT END PLUS 4 INCHES.

TO DETERMINE THE PROPER BAG LENGTH FOR A LOOSE BULK PRODUCT (E.G. Oranges, Potatoes, Sugar, Ice, Macaroni, etc.) FOLLOW THIS PROCEDURE:

1. Fill bag to desired weight using samples of the product to be closed.
2. Close bag with the proper Striplok closure.
3. Check length of the bag above the closure. The proper bag length allows 4" of bag above closure (not including Lip of bag).



\* Normal variations in size and density of products will occur. Oranges, grapefruit and potatoes dehydrate as the season progresses; bakery products vary due to over proofing; and density of ice will change because of certain manufacturing techniques. Therefore, the above bag length formulas take into account these variations to give maximum automatic bag closing dependability.

# APPENDIX



**Kwik Lok**<sup>®</sup> 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 865A CLOSER

Part no.	Description	Qty.	Part no.	Description	Qty.
<u>08-004124</u> *	Belt - Lower Feed	2	<u>P11-00417</u> *	Spring - Motor Brush	2
08-004435 *	Roller - Gearbelt Support	3	<u>P11-00467</u> *	Brush - Motor	2
<u>08-004438</u> *	Belt - Gear	1	P21-00149	Gearmotor - Bodine Right Angle	1
08-004597 R	Breaker Lok - (J-NRP, K-NRP) (right-hand machine)	1	P12-00126	Sensor - Magnetic Vane	1
08-004597 L	Breaker - Lok (J-NRP, K-NRP) (left-hand machine)	1	P10-00058	Control - DC Motor	1
08-004565 R	Breaker - Lok (JM-NRP) (right-hand machine)	1	<u>P11-00415</u> *	Fuse	5
08-004565 L	Breaker - Lok (JM-NRP) (left-hand machine)	1	P23-00220 S	Nut - 10-32UNF - ESNA (low profile)	2
08-004541 R	Breaker - Lok (JW-NRP, KW-NRP) (right-hand machine)	1	P27-00018	Ring - Retaining (for Clutch Shaft)	1
08-004541 L	Breaker - Lok (JW-NRP, KW-NRP) (left-hand machine)	1	0S-043	Spring	1
08-004869 R	Breaker - Lok (Z90-NRP) (right-hand machine)	1	0S-006 *	Spring	1
08-004869 L	Breaker - Lok (Z90-NRP) (left-hand machine)	1	0S-012 *	Spring (yellow in color)	1
08-004917 R	Breaker - Lok (KM57-NRP) (right-hand machine)	1	0S-018	Spring	1
08-004917 L	Breaker - Lok (KM57-NRP) (left-hand machine)	1	0S-054	Spring	1
08-005435 R	Breaker - Lok (Z-NRP) (right-hand machine)	1	0S-079	Spring	1
08-005435 L	Breaker - Lok (Z-NRP) (left-hand machine)	1	08-004154	Mount - Breakoff Link	2
P07-00121 R	Clutch - 12VDC (right-hand machine)	1	<u>P02-00095</u> *	Bearing	2
P07-00121 L	Clutch - 12VDC (left-hand machine)	1	P03-00111	Belt - Gear - Model J-NRP, K-NRP, JM-NRP, KM57-NRP, JW-NRP, KW-NRP	1
			<u>P03-00113</u> *	Belt - Gear - Model J-NRP, K-NRP, JW-NRP, KW-NRP, JM-NRP, KM57-NRP	1
			P03-00129	Belt - Gear - Model Z-NRP, Z90-NRP	1
			<u>P03-00130</u>	Belt - Gear - Model Z-NRP, Z90-NRP	1
			<u>P03-00133</u>	Belt - Lower Gear - Model "G" only	1
			P10-00023	Solenoid Module	1
			Z8072039 **	Tester - Solenoid Module	1

Underlined Part Numbers Indicate Suggested Minimum Inventory.

- \* These items are contained in the Z8065086 Spare Parts Kit and may be ordered as such.
- \*\* The Z8072039 Solenoid Module Tester is used to test the P10-00023 Solenoid Module. One tester can be used for all equipment utilizing the P10-00023 Solenoid Module. Only one tester is suggested per plant.

**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.**

**Kwik Lok  
WARRANTY POLICY**

Seller warrants that the equipment shall be free of defective workmanship or materials. Its obligation under this warranty to consist exclusively of repairing or replacing, free of charge f. o. b. its factory, any parts received at its factory within two years from the date of shipment of the respective equipment or parts alleged to be defective and determined by Seller upon inspection to be defective.

No other warranty, expressed or implied, as to description, quality, merchantability, fitness for a particular purpose or any other matter is given by Seller in connection with this sale. Under no circumstances shall Seller be liable for loss or profits or other consequential damages, or for any other direct or indirect costs, expenses, equipment or any part thereof. Neither shall the Seller be liable for any defects attributable to the use of any parts, supplies or service not manufactured, supplied or provided by the Seller.

Electric motors, controls and electronic components carry a one year warranty in which these items will be repaired or replaced and returned to the Buyer at no charge if the manufacturer determines the equipment to be defective in workmanship and / or materials. The disassembly of motors, gear-motors and clutches will void the aforementioned warranty.

# APPENDIX

## 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.