

Crestline[®] Dampening System

Installation Instructions

Ryobi 3200 MCD

Itek 985

ACCEL  [®]
Graphic Systems

GENERAL INFORMATION

ATTENTION CRESTLINE® DAMPENER OWNER!

Accel Graphic Systems provides parts and service through its authorized distributors and dealers. Therefore, all requests for parts and service should be directed to your local dealer.

The philosophy of Accel Graphic Systems is to continually improve all of its products. Written notices of changes and improvements are sent to Accel Graphic Systems' Dealers.

If the operating characteristics or the appearance of your product differs from those described in this manual, please contact your local Accel Graphic Systems Dealer for updated information and assistance.

Always update your dampener when improvements are made available, especially those related to safety.

YOUR AUTHORIZED CRESTLINE® DEALER IS:

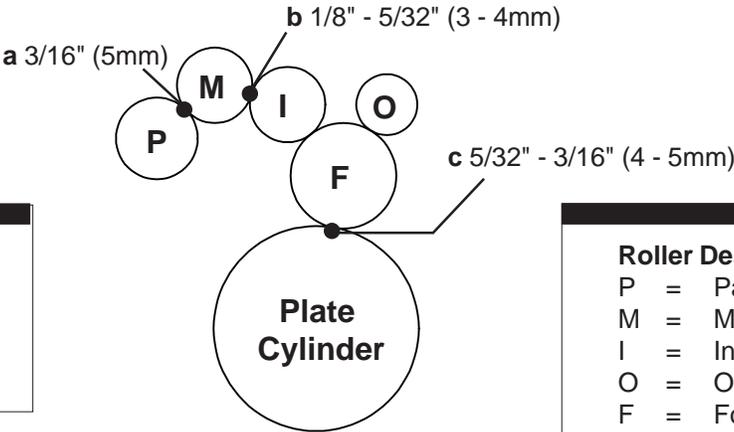
THE SERIAL NUMBER OF YOUR CRESTLINE® DAMPENER(S) IS:

SAFETY INFORMATION

FOR YOUR SAFETY, DO NOT DISENGAGE OR REMOVE ANY GUARDS FROM THE CRESTLINE® DAMPENER. THE DAMPENER CONTAINS SOME INWARD ROTATING ROLLER NIPS THAT CAN CAUSE INJURY IF LEFT UNGUARDED.

GENERAL INFORMATION

BASIC CONFIGURATION OF CRESTLINE®



Adjustments
a. Metering to Pan
b. Metering to Intermediate
c. Form to Plate

Roller Description
P = Pan
M = Metering
I = Intermediate
O = Oscillator
F = Form

TERMINOLOGY OPS = Operator's Side
NOPS = Non Operator's Side

TECHNICAL ASSISTANCE For technical assistance, please contact:

ACCEL GRAPHIC SYSTEMS
11103 Indian Trail
Dallas, TX 75229
(972) 484-6808
FAX (800) 365-6510
E-Mail accel@dallas.net
WEB SITE www.accelgraphicsystems.com

Crestline® is covered by U.S. Patents and Patents Pending

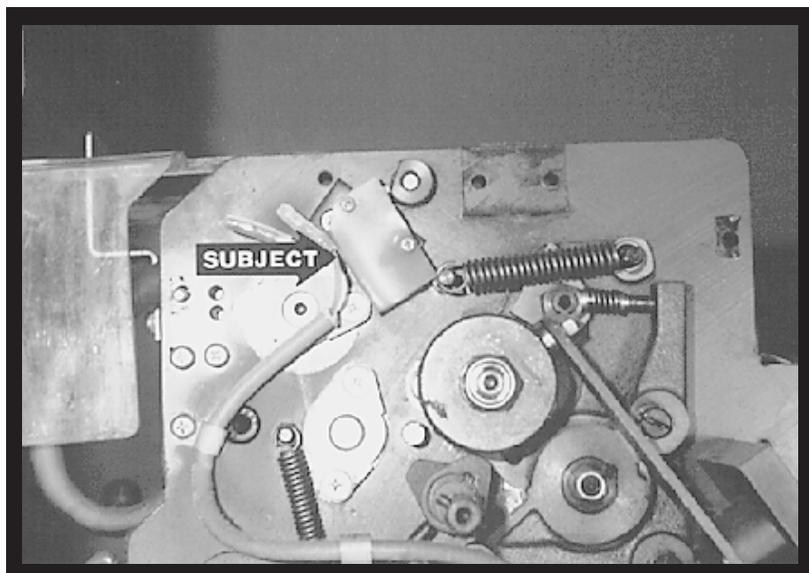
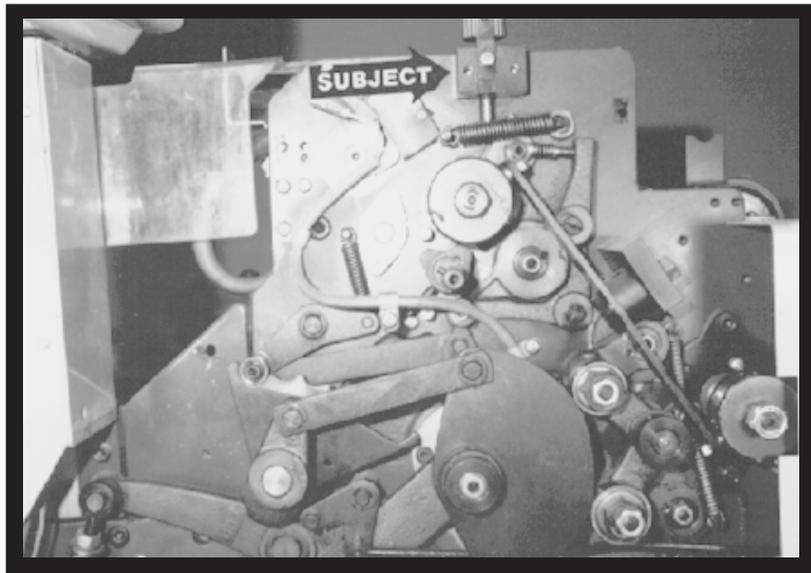
GENERAL INFORMATION

- REQUIRED TOOLS**
1. Phillips Screwdriver
 2. Standard Screwdriver
 3. 1/8" & 3/32" Allen
 4. 2.5, 3, 4, 5, & 6 mm Allens
 5. 8,10,13, & 17 mm Wrenches
 6. 7/16" Open End Wrench
 7. Vise Grips
 8. 4 mm Punch
 9. Brass Drift
 10. 1/8" Punch
 11. Hammer For Use With Punch

PRE-INSTALLATION INFORMATION

Please follow these procedures prior to installing Crestline®.

1. Cut the ties holding the rollers and examine rollers for gouges, scratches, or nicks.
2. Check box and parts board to make sure all pieces are present and nothing has broken in shipping.
3. Check the dampener for parallel (cutter bed works best). If dampener rocks, it needs to be realigned. Loosen tie bar bolts at OPS and align the frames on a flat surface. Retighten bolts.
4. Set ink form to vibrator pressure at 4mm in the ink train.



DISASSEMBLY

1

Remove the molleton covered rollers from the press. Remove side covers from the press at OPS & NOPS including the small covers at the very top of the press frame. Also remove the cover over the ink fountain roller ratchet mechanism at the OPS.

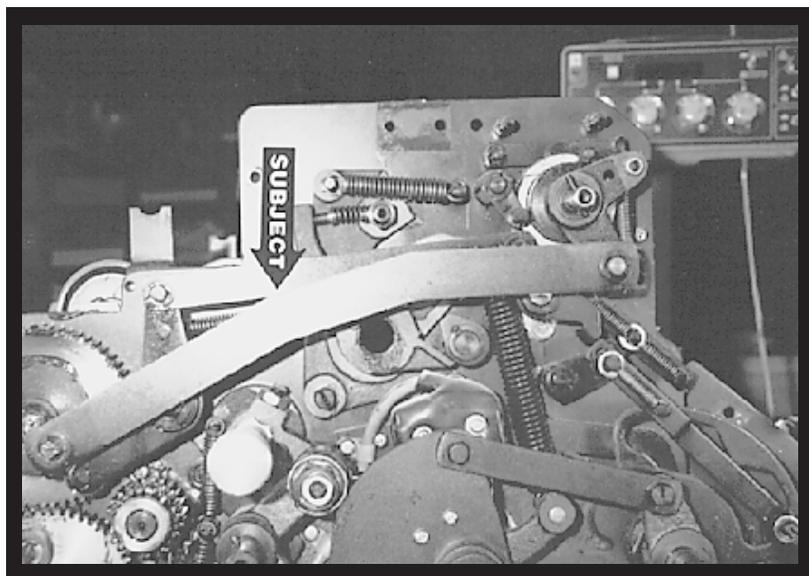
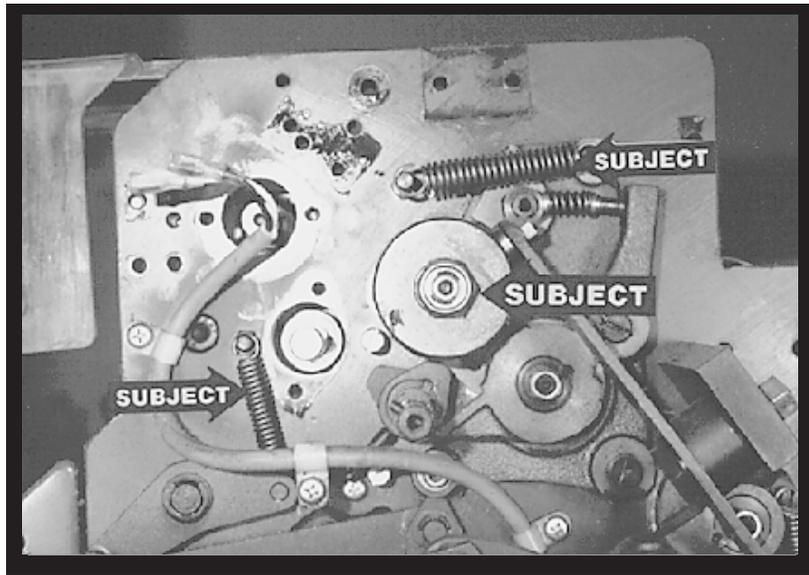
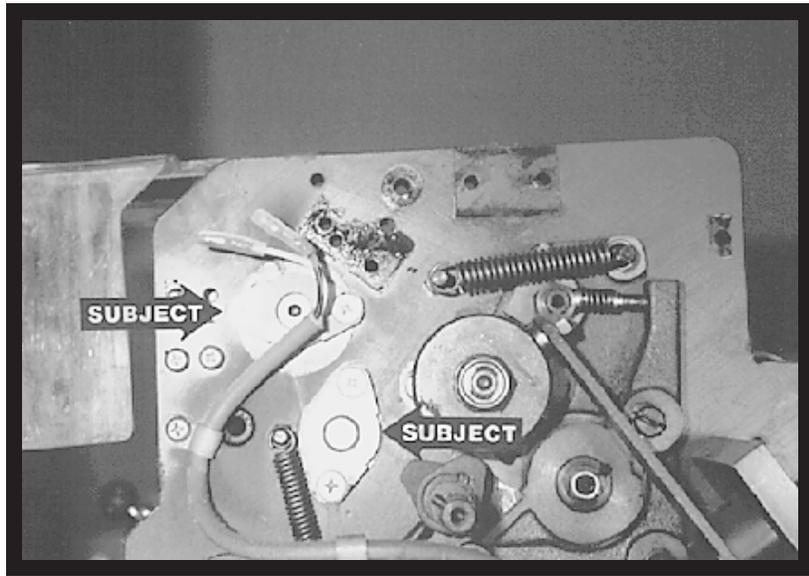
2

Remove the water form adjusting knobs (subject arrow) at the OPS & NOPS.

3

Disconnect wires and remove entire microswitch assembly from NOPS (subject arrow). Also remove top cable clamp from microswitch cord.

7



DISASSEMBLY

4

Remove the 2 bushings (subject arrows) at NOPS. Also remove the NOPS water pan block, held in place by the two Phillips head screws below the arrow on the left hand side.

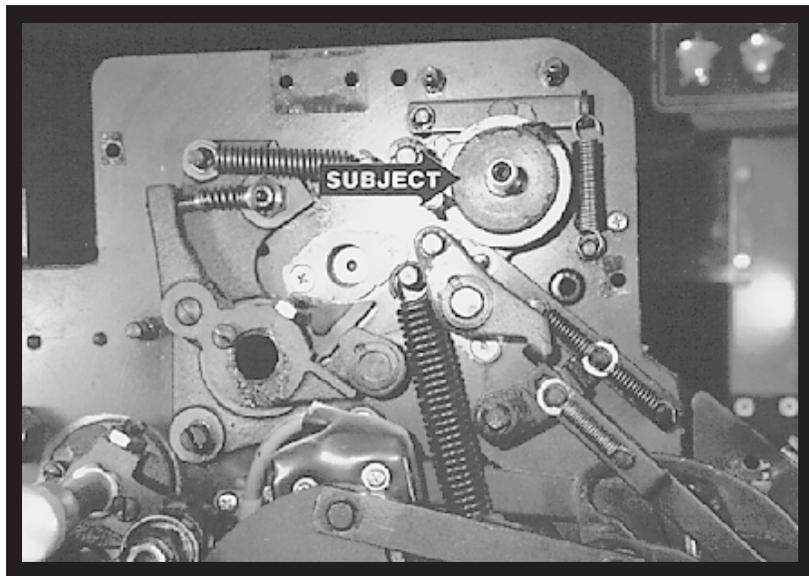
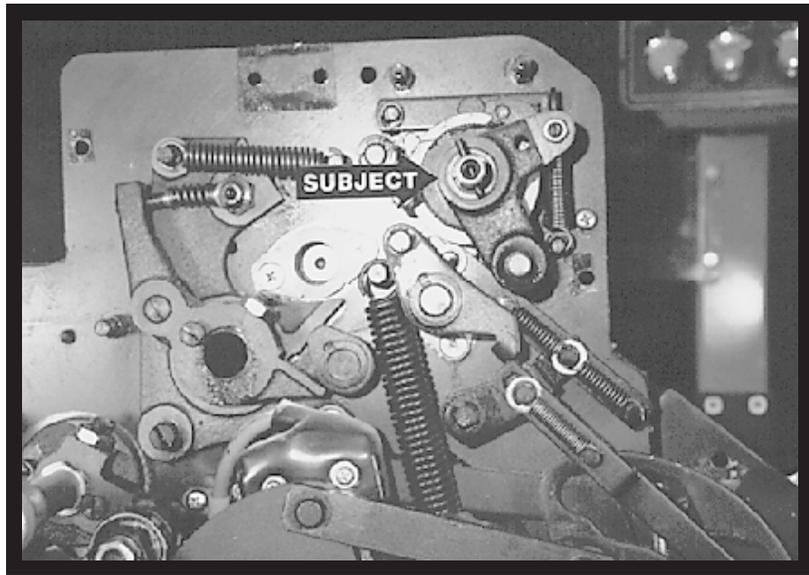
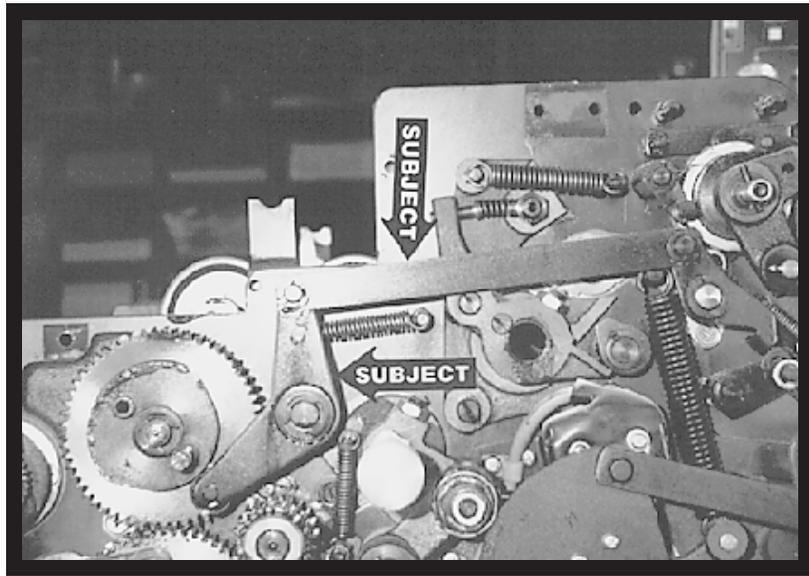
5

Remove the nut and springs at the NOPS (subject arrow).

6

Remove arm at OPS (subject arrow).

9



DISASSEMBLY

7

Remove arms (subject arrows) at OPS. The arm at the left may have a spring attached to it. Remove the spring also.

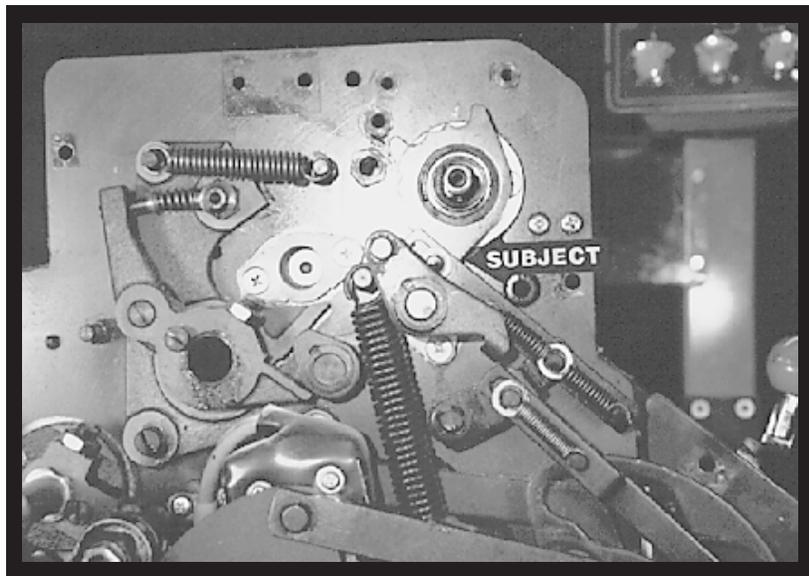
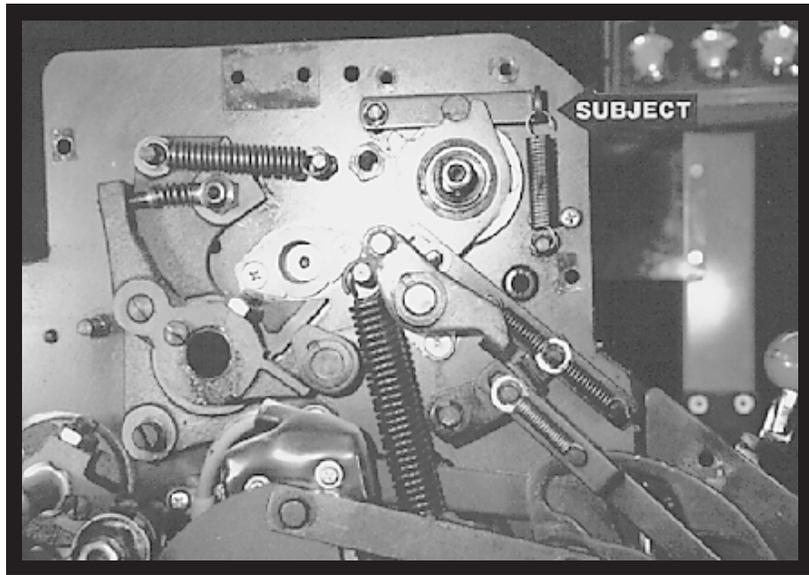
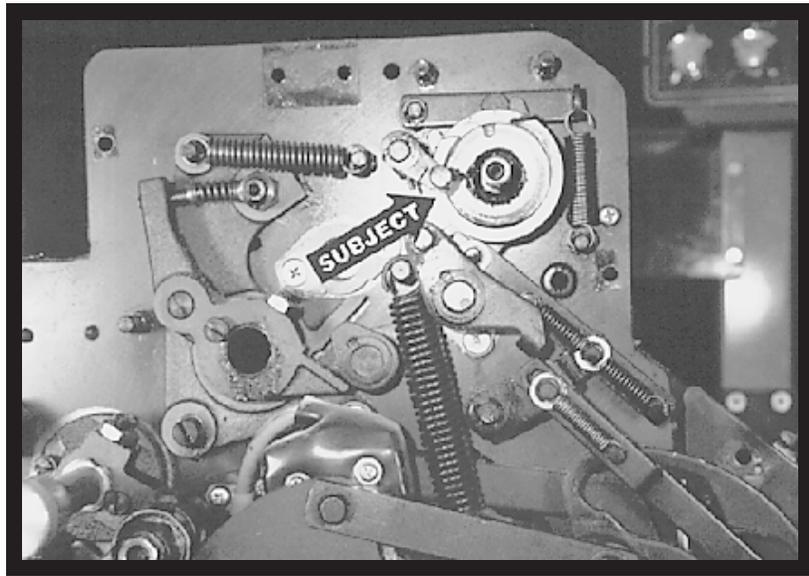
8

Drive the pin out of the end of the pan roller shaft and remove the arm at the OPS (subject arrow).

9

Remove gear at the end of the pan roller at OPS. Gear may have a set screw holding it in place (subject arrow).

11



DISASSEMBLY

10

Remove ratchet pin assembly (subject arrow) at OPS. Also remove the two studs at the top right hand portion of the upper casting.

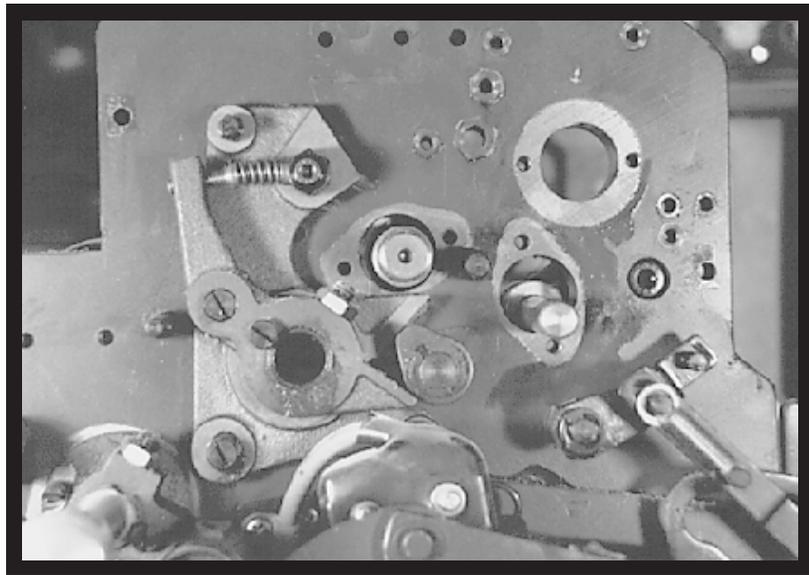
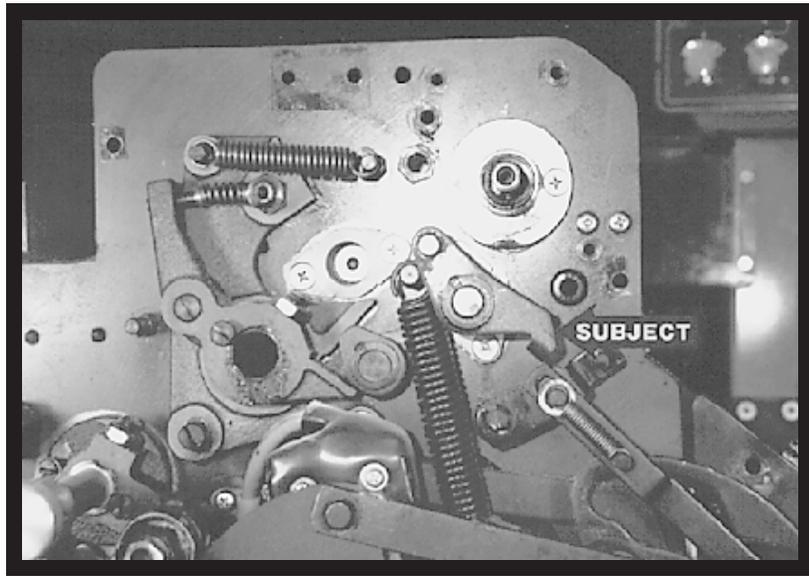
11

Remove the vertical spring and arm (by subject arrow) and spring stud at OPS.

12

Remove linkage and plate on pan roller shaft (located at the tip of subject arrow) at OPS.

13



DISASSEMBLY

13

Drive the pin out of and remove the arm at the end of the ductor at the OPS to expose the bushing. Remove the ductor assembly bushing, pan roller bushing, and oscillator bushing at OPS. Remove the horizontal spring and stud at OPS and NOPS (shown in upper left hand portion of picture).

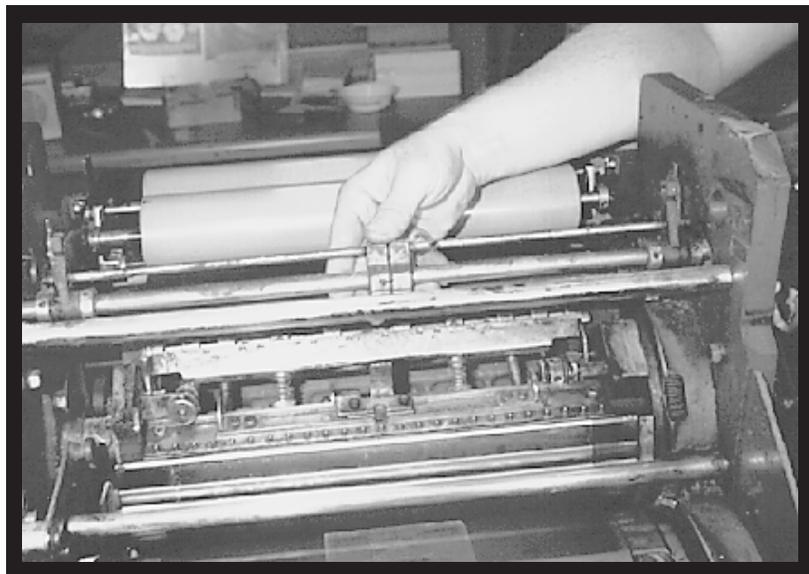
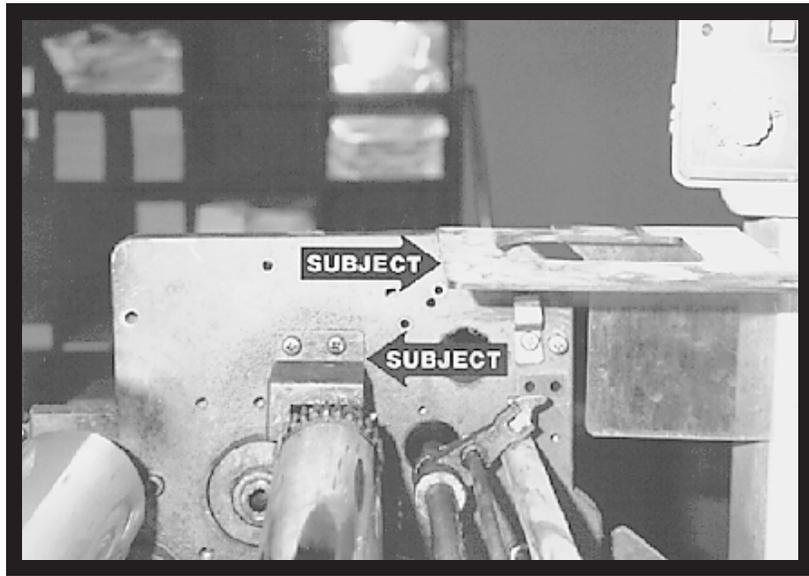
14

The OPS side should now look like this.

15

Slide the pan roller out of the press.

15



DISASSEMBLY

16

Remove the gear guard and plastic guard.

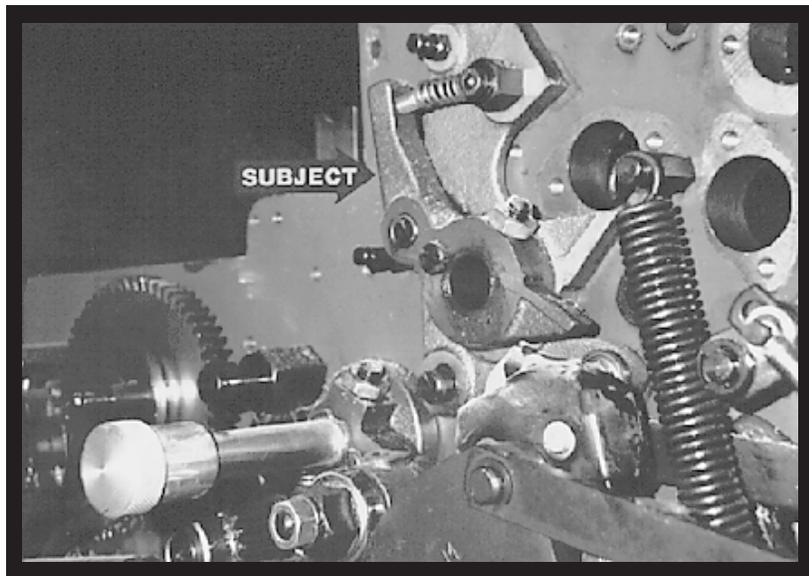
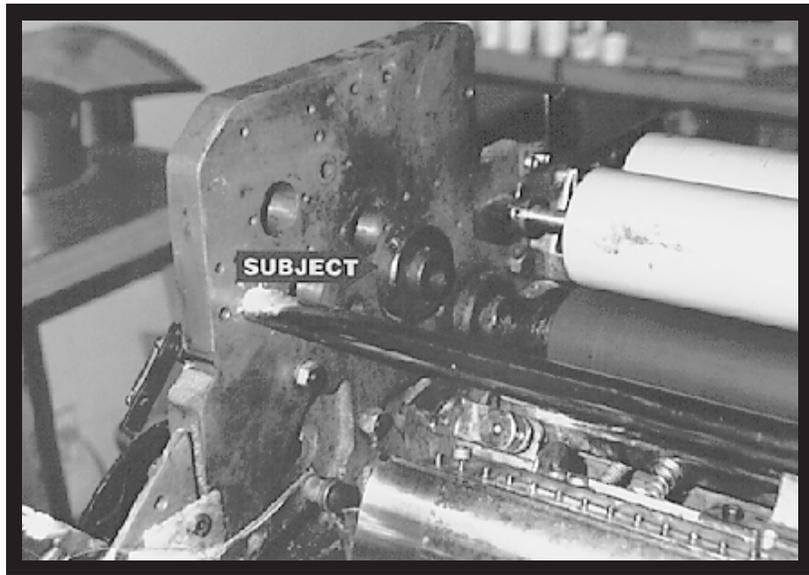
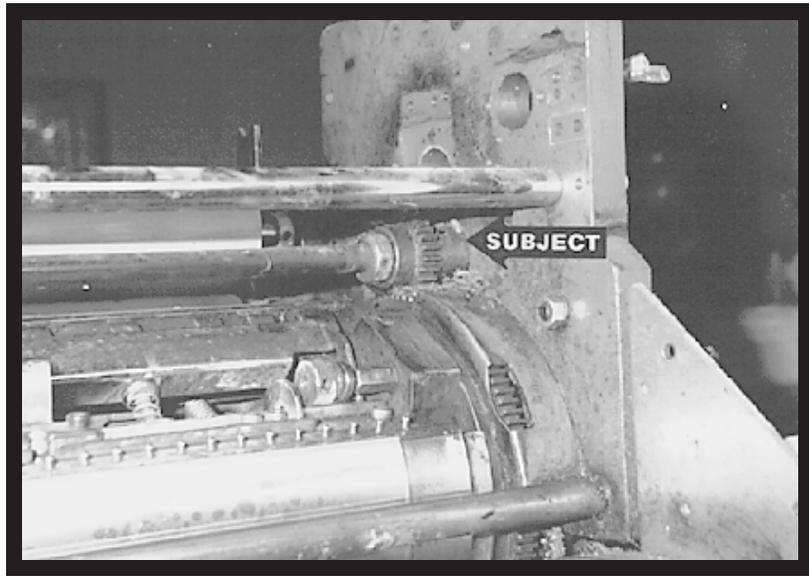
17

Slide the oscillator all the way to the OPS and remove the spool at the end of it. Remove oscillator bushing from NOPS and remove oscillator.

18

Loosen all the set screws on the ductor shaft, including the two in the center brass collars. Tap the shaft until it clears the inside of the press frame and remove the entire ductor assembly.

17



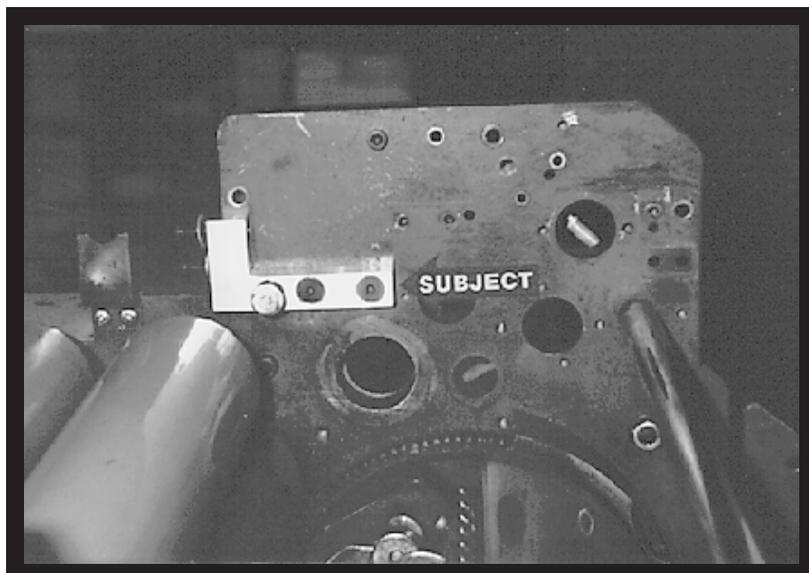
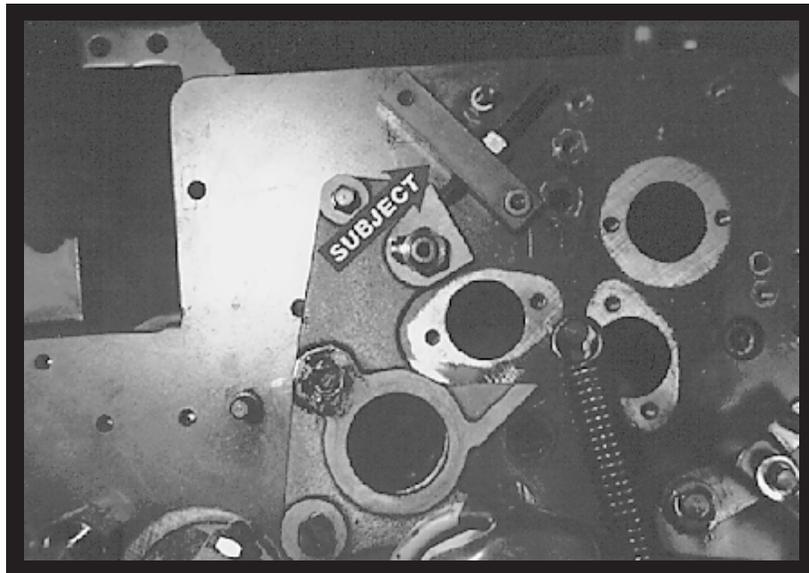
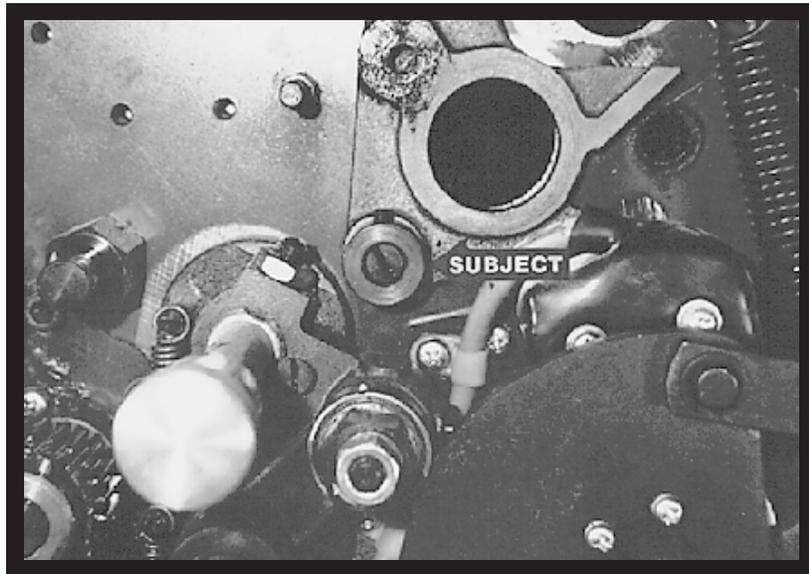
19

Loosen the set screws on the water form night latch shaft (subject arrow). Knock the pin out of the collar at the OPS of the shaft and pull the shaft out through the fram from the NOPS. Drive the collar that held the night latch shaft out of the press frame. The collar is a press fit.

20

Remove the collar on the inside of the press frame at OPS & NOPS (subject arrow middle picture). Remove the arm on the outside of the frame at both OPS & NOPS (subject arrow bottom picture).

YOU ARE NOW READY TO INSTALL CRESTLINE®.



INSTALLATION

1

Install 10mm set collar at bottom of arm at OPS & NOPS (subject arrow).

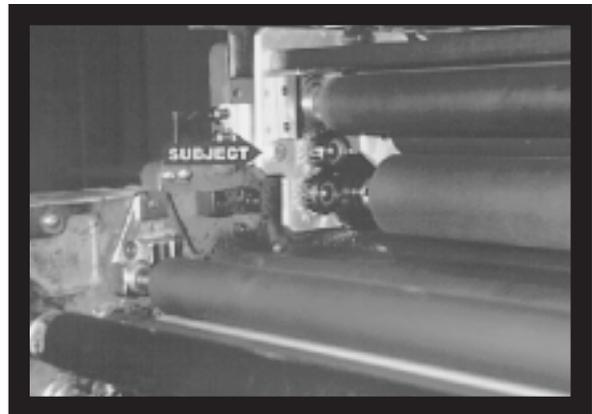
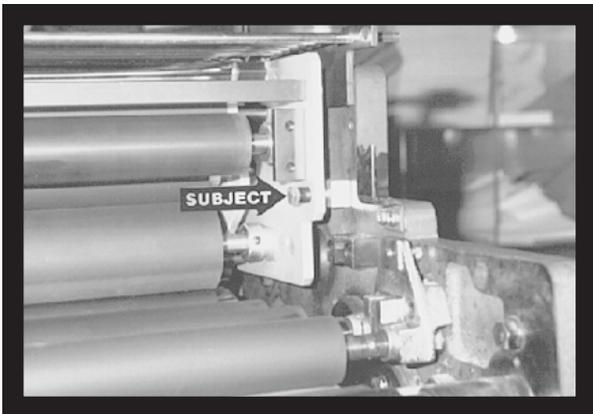
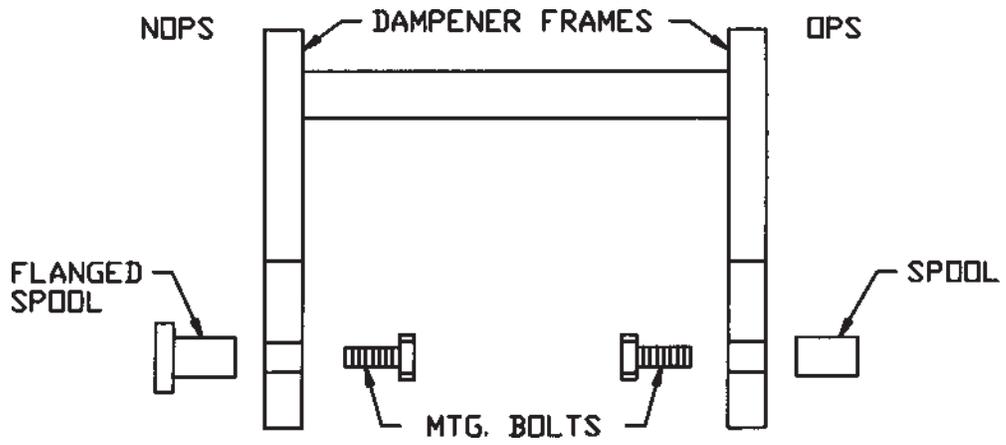
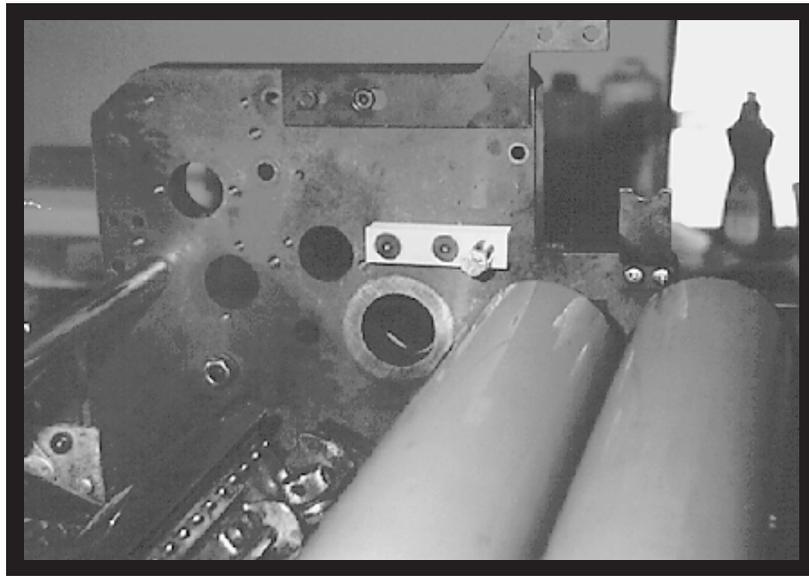
2

Install water form adjusting blocks as shown (subject arrow). The upper bolt goes through the clearance hole in the side frame and threads into the block. The lower bolt goes through a clearance hole in the block and threads into the side frame.

3

Install the "L" shaped mounting block at the NOPS (subject arrow).

NOTE: If the press has an additional set of ink rollers (stack kit), you must bolt the water bottle bracket to the "L" shaped bracket before bolting the "L" shaped bracket to the press (see step 8).



4

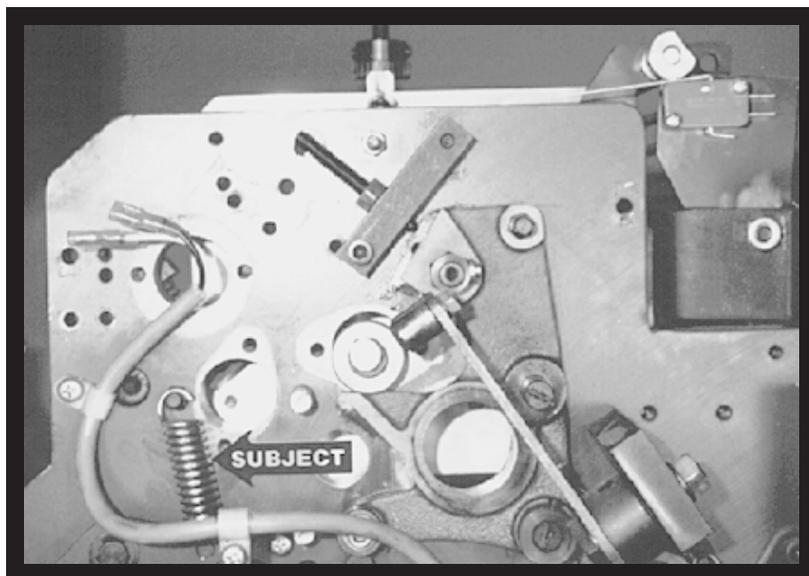
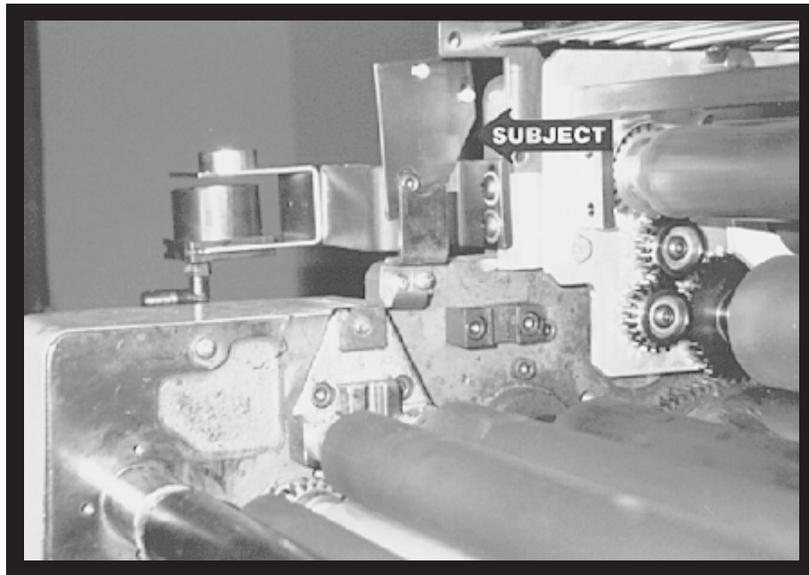
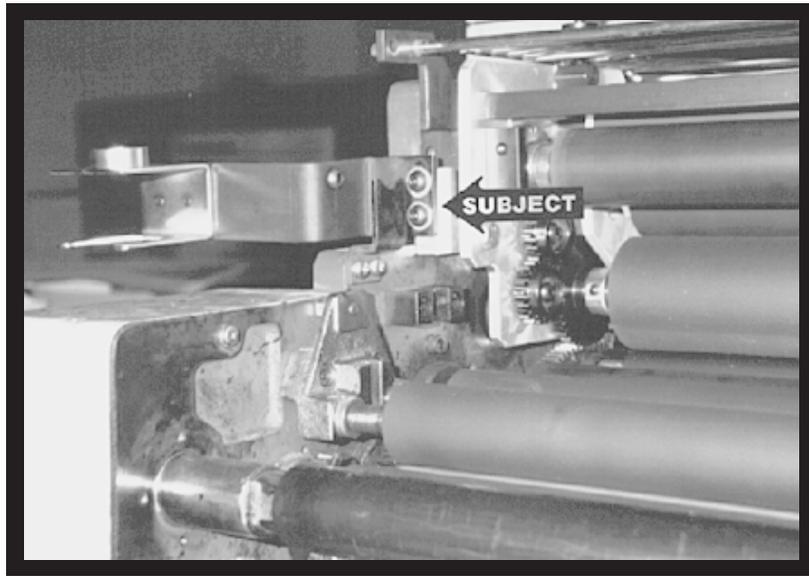
Install the mounting block at the OPS.

5

Remove the bolts and spools from the mounting blocks. Take the spool from the NOPS side (spool has flange on it) and place it in the dampener frame so the flange will end up between the dampener and mounting block.

6

Place the dampener between the mounting blocks and install as shown. Fully tighten hex head bolts into the mounting blocks (subject arrows).



INSTALLATION

7

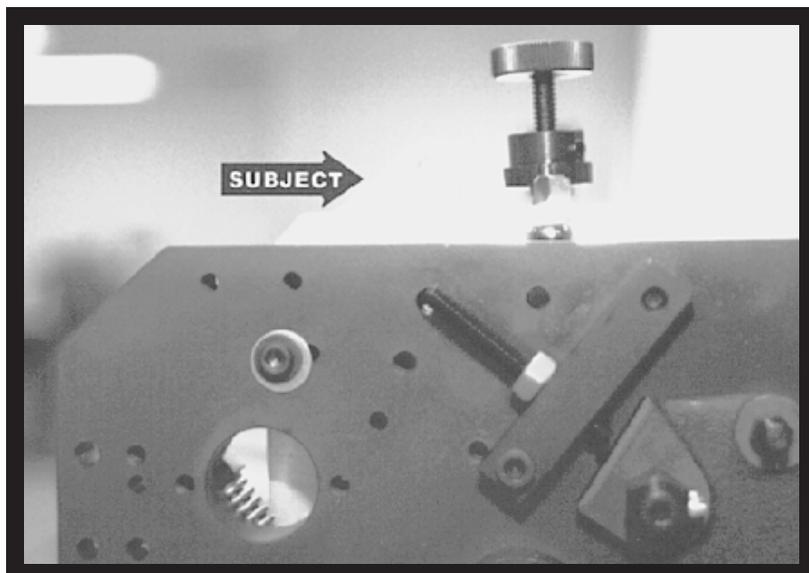
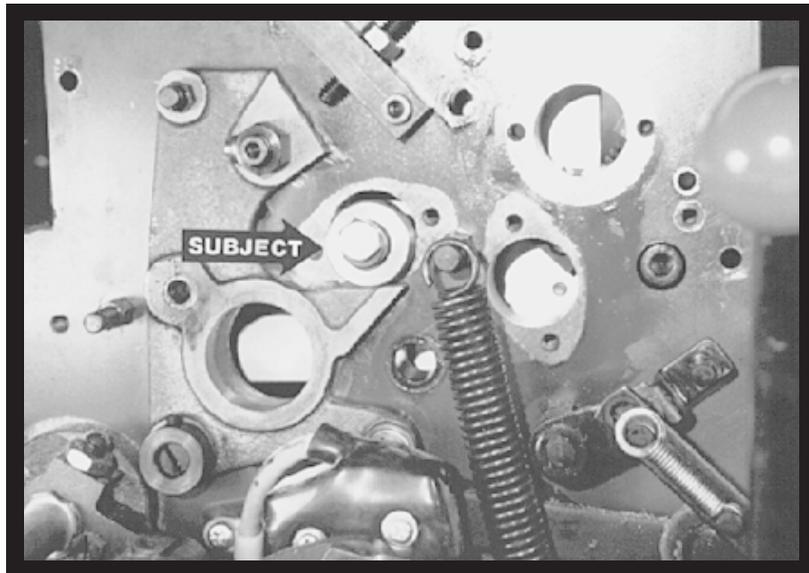
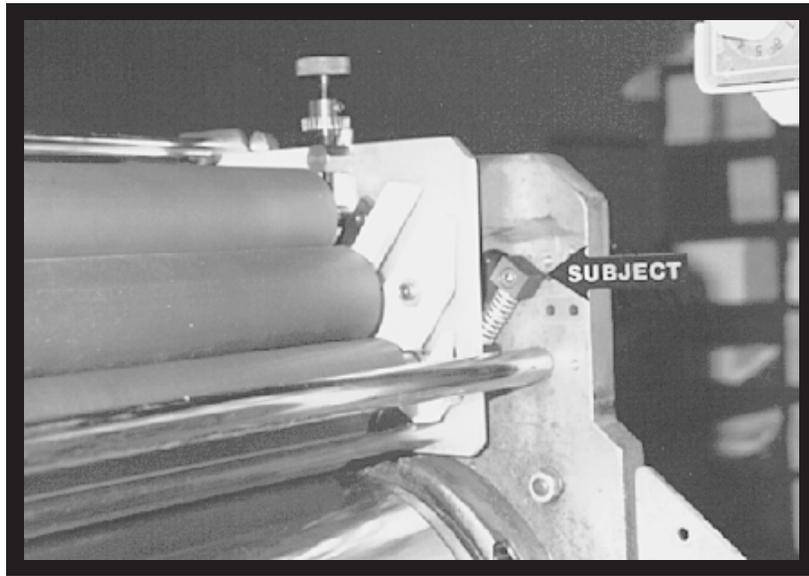
Install the external water bottle bracket (subject arrow).
NOTE: Skip this step if you installed bracket in step 3.

8

Install the microswitch plate as shown (subject arrow).

9

Install the new spring for the single lever mechanism at the NOPS (subject arrow).



10

Install the spring and spring stud at the OPS & NOPS (subject arrow). The bolt for the spring stud threads into a hole from the original pan roller bushing.

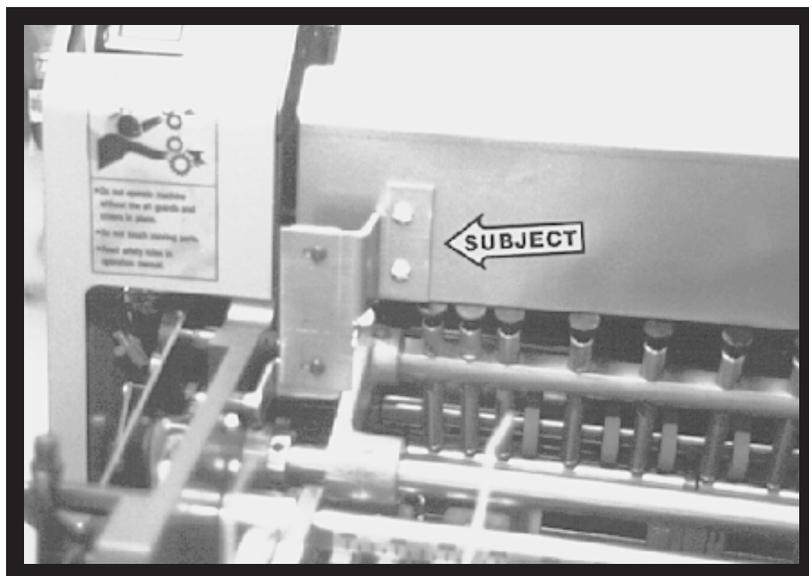
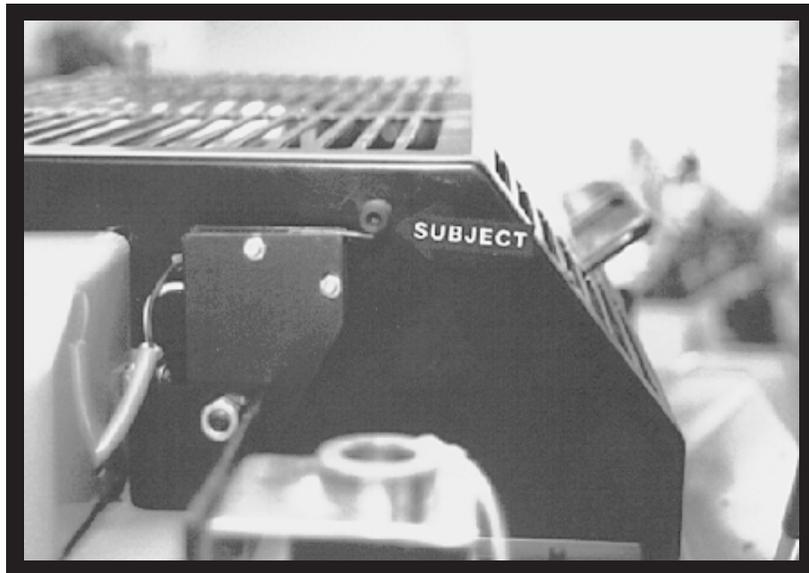
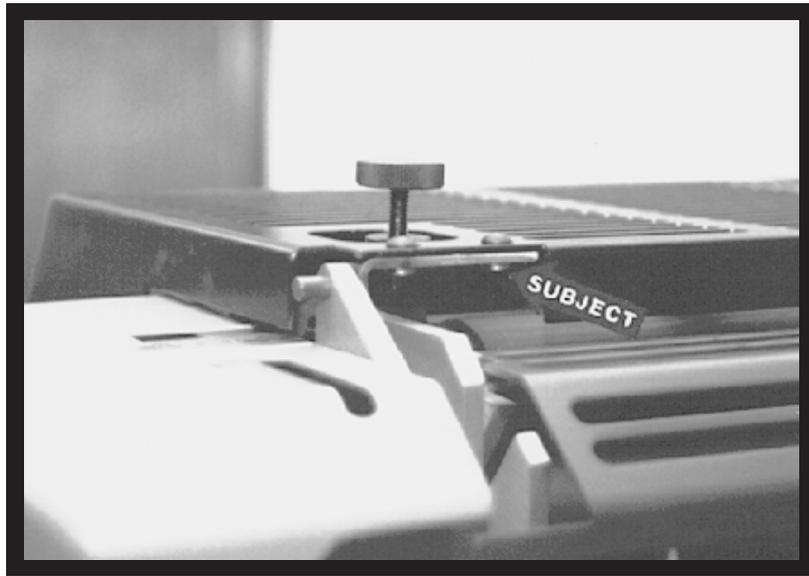
11

Install the lift eccentrics as shown (subject arrow). The set collar should be positioned as shown. The casting below the set collar will raise and lower the dampener. Make sure the collar does not hang up on the press frame.

12

The following six steps are for mounting the guards.

At OPS & NOPS, install the dampener guard mounting brackets (subject arrow, NOPS shown). The NOPS uses the longer bolt and washer. The mounting bracket comes with multiple holes so that fitting in various versions of the MCD is possible. Simply choose the two holes that fit your press.



13

Place the dampener guard on the press as shown and install the hinge pins (subject arrow) at OPS & NOPS. Push the pins all the way against the mounting bracket on both sides to eliminate the side to side play.

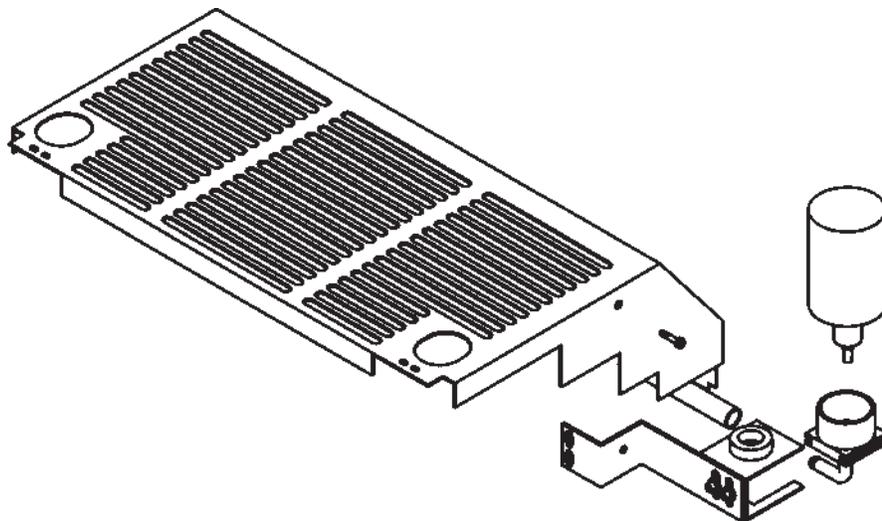
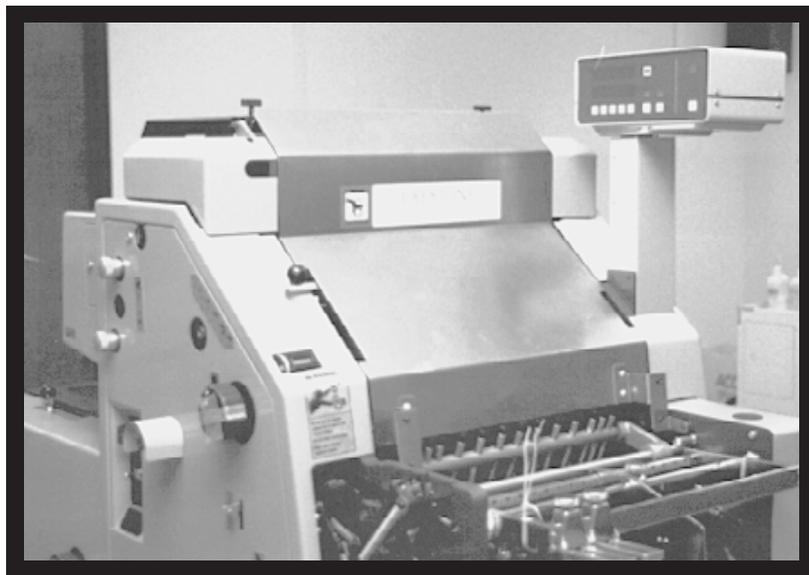
14

Route microswitch wires through the hole in the upper NOPS cover as shown and plug into the new microswitch. Form activator on switch so that the trip stud (subject arrow) engages it properly.

15

Installing plate guard on presses WITHOUT Townsend T-51®:

Supplied with the plate/blanket cylinder guard are adapter plates (subject arrow) for the NOPS & OPS. If your press does not have a T-51® color head, you must install these adapter plates to the bottom of the guard as shown and then bolt the Ryobi hinges to the adapter plates with provided screws.



16

Installing plate/cylinder guard on presses WITH Townsend T-51®:

The adapter plates supplied with the plate/blanket cylinder guard are not required on those presses using a T-51® color head. Instead, remove the T-51® mounting brackets (subject arrow) from existing guard and bolt to the new plate/blanket guard as shown. This guard attaches to the T-51® blocks and activates the microswitch exactly as the original T-51® guard.

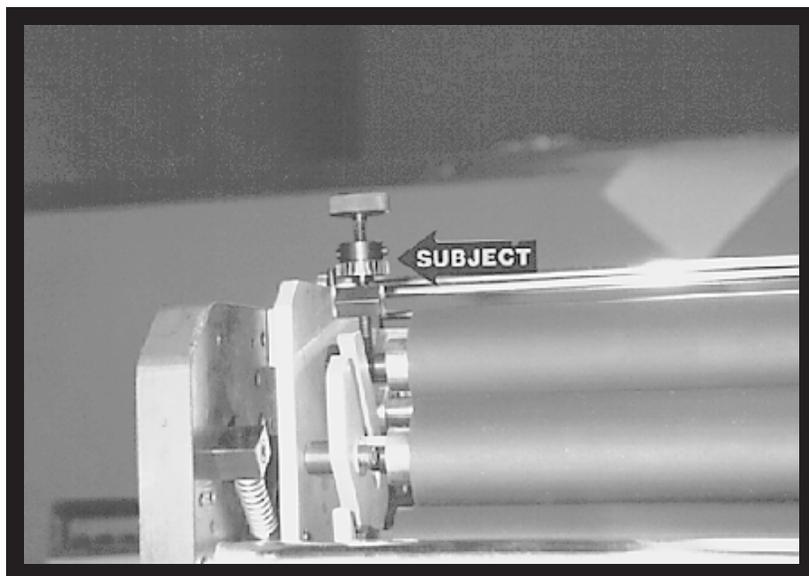
17

The plate/blanket cylinder guard will look like the photo when installed. (Non-T-51® setup shown in picture.)

18

Route the tubing from the water pan to the water bottle bracket under the notch in the guard. If the elbow fitting is not facing towards the press, turn it so that it resembles the drawing shown.

YOU ARE NOW READY TO MAKE FINAL ADJUSTMENTS.



FINAL ADJUSTMENTS

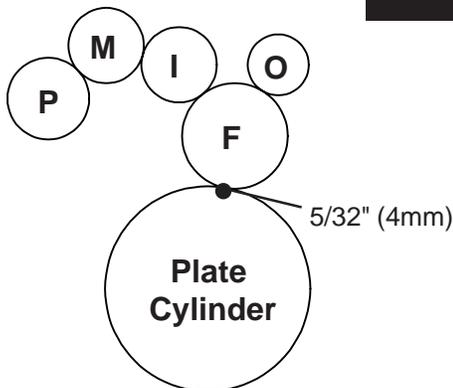
1

Mount a metal plate to the plate cylinder. Place single lever in the OFF position and observe the gap between the plate cylinder and dampener form roller. It should be $.040'' - .050''$ (1 - 1.5mm). It can be adjusted with the lift eccentrics installed in the previous step. The "high side" of the eccentric should start out pointing toward the feeder at OPS & NOPS. Tighten the set screw in the collar at a "12-o'clock" position. With the wrench inserted in the set collar, loosen hex bolt in eccentric and move the wrench in the collar up or down to achieve the proper lift. Retighten hex bolts when finished.

2

Water Form to Plate

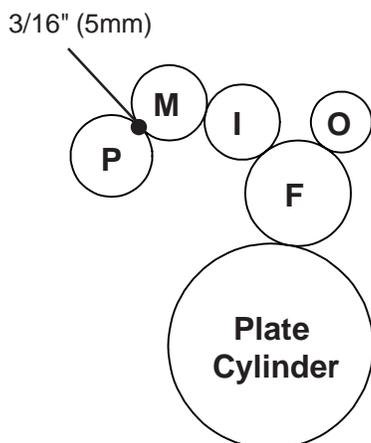
Dab some ink on the dampener oscillator and run the press for 20-30 seconds. Place the single lever in the "water on" position and back off again to leave a stripe on the plate. It should be $5/32''$ (4mm) and parallel. It is adjusted with the long set screws in the water form adjusting block. Turning the screws down makes a thinner stripe and vice versa. Tighten lock nuts when finished.

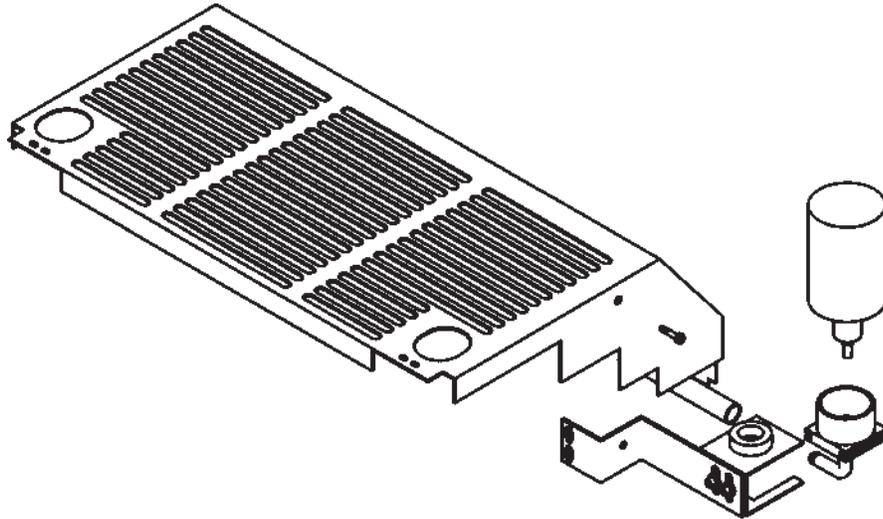
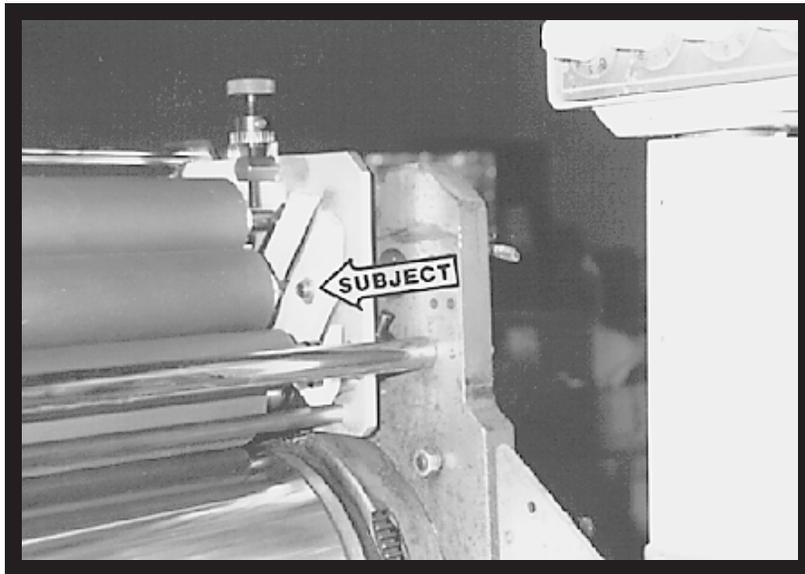


3

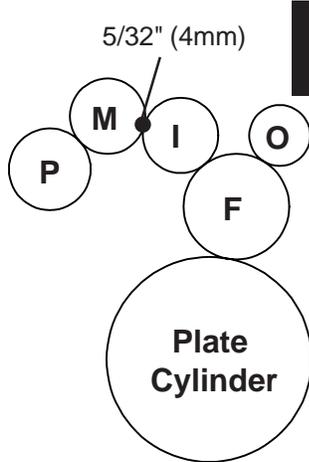
Metering to Pan

1. Spin the ratchet gear (subject arrow) down until it stops against the cross bar. (It is not yet locked to knurled knob.)
2. Adjust the knurled knob down until an even $3/16''$ (4.5 - 5mm) stripe is obtained between the pan and metering rollers. Always check the stripe on the pan roller by running the press for 20 seconds and letting it sit still for 20 seconds. Turning the press by hand will reveal the stripe on the top of the pan roller.
3. Lock the ratchet gear to the knurled knob by tightening the two set screws in the ratchet gear.





FINAL ADJUSTMENTS



4

Intermediate to Metering

1. Idle the press for 20 seconds and then stop. Let the press sit for 20 seconds.
2. Drop the water form to the plate.
3. Turn the press backwards by hand sharply to view the pressure stripe between the metering and intermediate rollers. It should be an even $5/32$ " (4mm).
4. Pivot the intermediate roller so the stripe is $5/32$ " (4mm) by loosening the bolt (subject arrow) on both sides of the dampener. (The entire hanger pivots.)
5. Lock the hanger into position once the roller pressure is set.

5

1. Place the water bottle in the bracket with some water in it. Adjust the water height by raising or lowering the bracket with the bolt in the water cup holder. The water should be about $1/2$ to $3/4$ the way up the side of the water pan.

BASIC OPERATION

START OF DAY

- A. Make sure the oscillator, intermediate and metering rollers are in place.
- B. Spin knurled knobs until the shoulder on the ratchet stops against the stud bar.
- C. Mount plate to cylinder. Wipe down all plates before running. Pre-ink the Crestline® dampener before running the plates with an extremely light coverage of ink. Dab the ink on the oscillator only.
- D. Place water bottle in bracket.

NOTE: Accel recommends using the proper fountain solution for the plate material being run on the press. A good acid/gum etch should be used with metal plates. Accel offers a product called FC (Fountain Concentrate) that we recommend for a fountain solution. Contact your Accel dealer for more information.

RUNNING DURING THE DAY

- A. In general, the Crestline® dampener should not have to be adjusted from job to job. The form roller setting should never be changed unless it has deviated from the factory specification of 5/32" (4mm) to the plate.
- B. Adjustments to the amount of water fed to the plate are made by the knurled knobs that apply pressure to the metering roller. The dampener has been set up for minimum water. To increase the water to the plate, turn the knurled knobs counterclockwise 1 or 2 clicks at a time. This opens the gap between the metering and pan rollers and allows more water to the plate.
- C. In general, more water will only be required when going from a metal plate to an electrostatic or silvermaster type plate.

CLEANING & MAINTENANCE

WASH UPS DURING THE DAY

1. Remove bottle and drain the excess water from the pan.
2. Mount a metal plate to the press.
3. Turn on the press and squirt a small amount of press wash on the ink rollers.
4. Drop both the dampener and ink forms to the plate. In general, the dampener will pick up enough roller wash off the plate to clean itself. Apply wash directly to the dampener only when necessary. If using wash-up mats instead of an attachment, it will be necessary to apply wash directly to the dampener.
5. Use wash up attachment as normal. The plate cylinder is being used as a bridge between the dampener and inker. Solution transfers from the dampener to the plate, plate to inker, and inker to wash up attachment.
6. Remove water pan and clean any solution left in it.
7. Be sure to wipe excess clean up solution from the ends of the dampener metering and pan rollers.

END OF THE DAY

1. Wash up dampener. Pay close attention to cleaning the ends of the pan and metering rollers that extend past the form rollers.
2. Spin the knurled knobs up until the metering roller can be removed.
3. Remove metering roller and wipe down thoroughly to remove any excess wash that may be on the roller.

CLEANING & MAINTENANCE

DEGLAZING THE DAMPENER

Periodic deglazing of water-soluble contaminants will be necessary with the Crestline®. Typically, once every 2-3 weeks will be sufficient, unless you are running electrostatic plates on a daily basis whereas deglazing should be performed weekly. A 50/50 solution of household ammonia and hot water can be used for deglazing purposes. If you prefer a commercially available deglazer, avoid those containing pumice or gritty substances. Always follow deglazing with straight water and then roller wash.

Accel offers a product called **COMPOUND X** that we recommend for deglazing our system. Contact your dealer or Accel for more information.

OILING AND GREASING THE DAMPENER

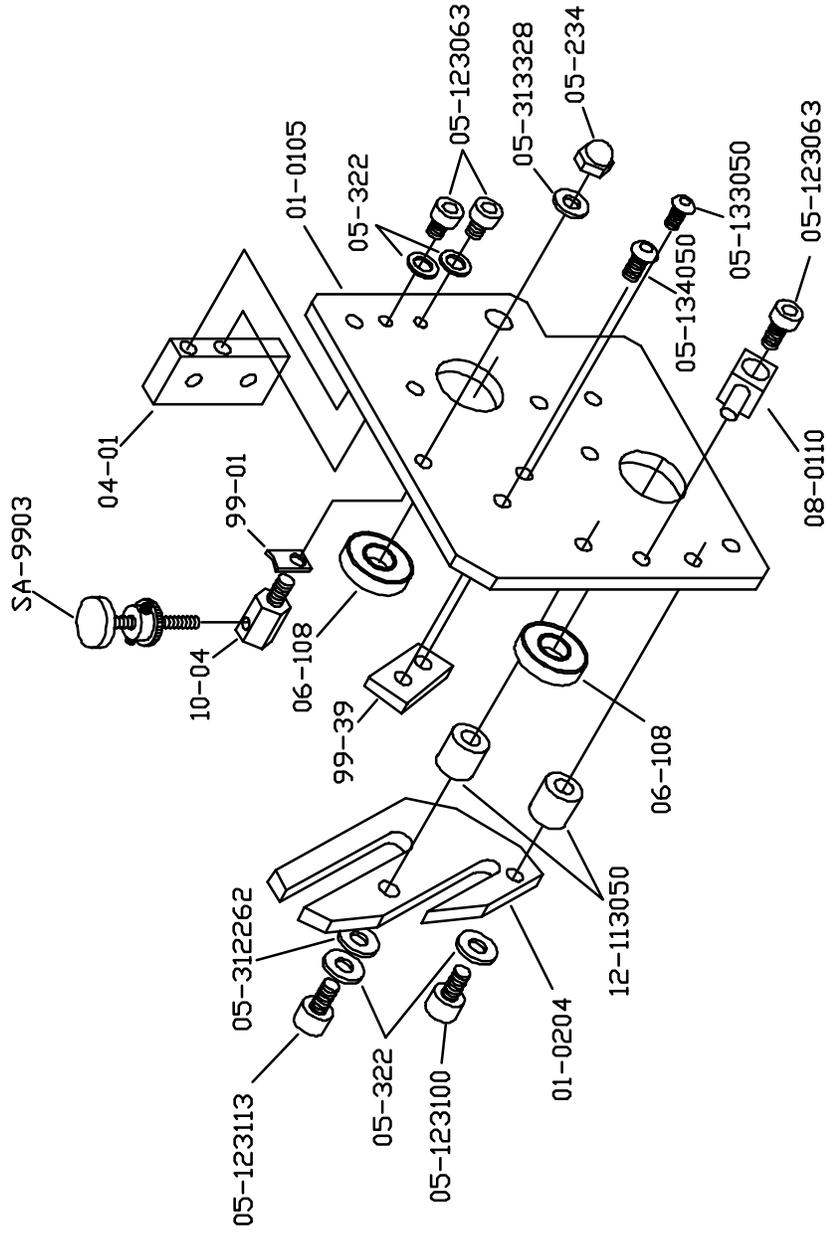
- A. Place a small amount of grease on the gears once a month.
- B. Inject grease into the oscillator grease fitting once a month.

CLEANING & MAINTENANCE

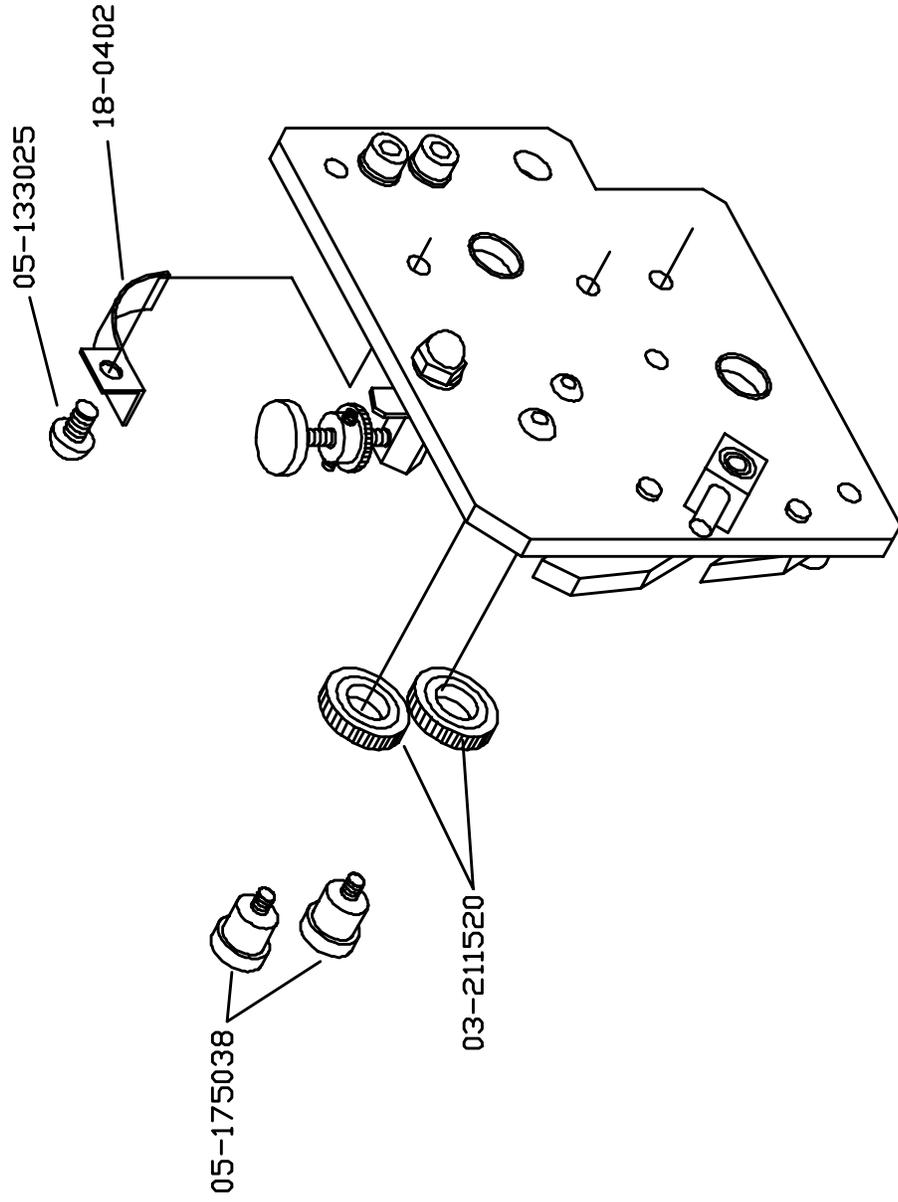
CRESTLINE® CLEANING & MAINTENANCE CHART

	Daily	Weekly	Bi-Weekly	Monthly
Wash Rollers	✓			
Deglaze Rollers				
Metal Plate Users			✓	
Silvermaster Plate Users			✓	
Electrostatic Plate Users		✓		
Grease Gears				✓
Inspect Ball Bearings				✓
Check Roller Pressures				✓
Check Roller Surfaces				✓

RY32M

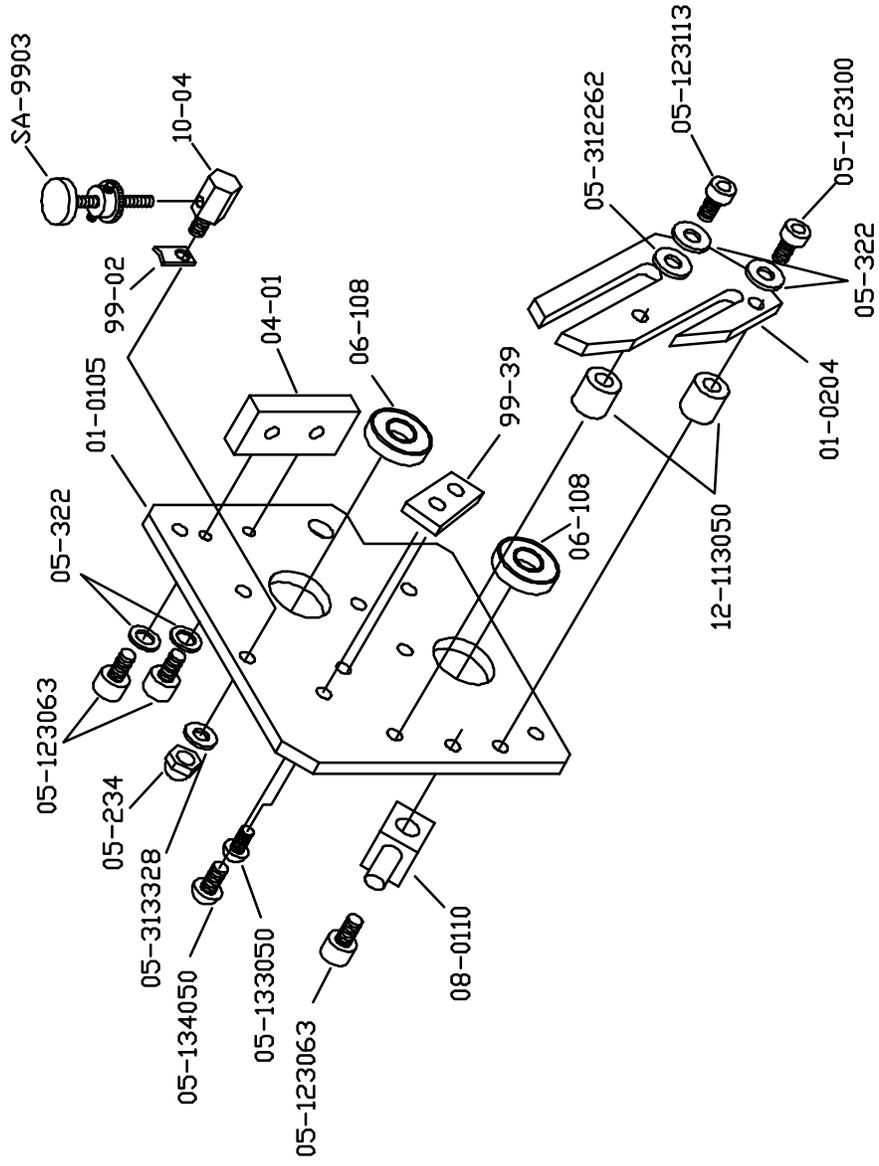


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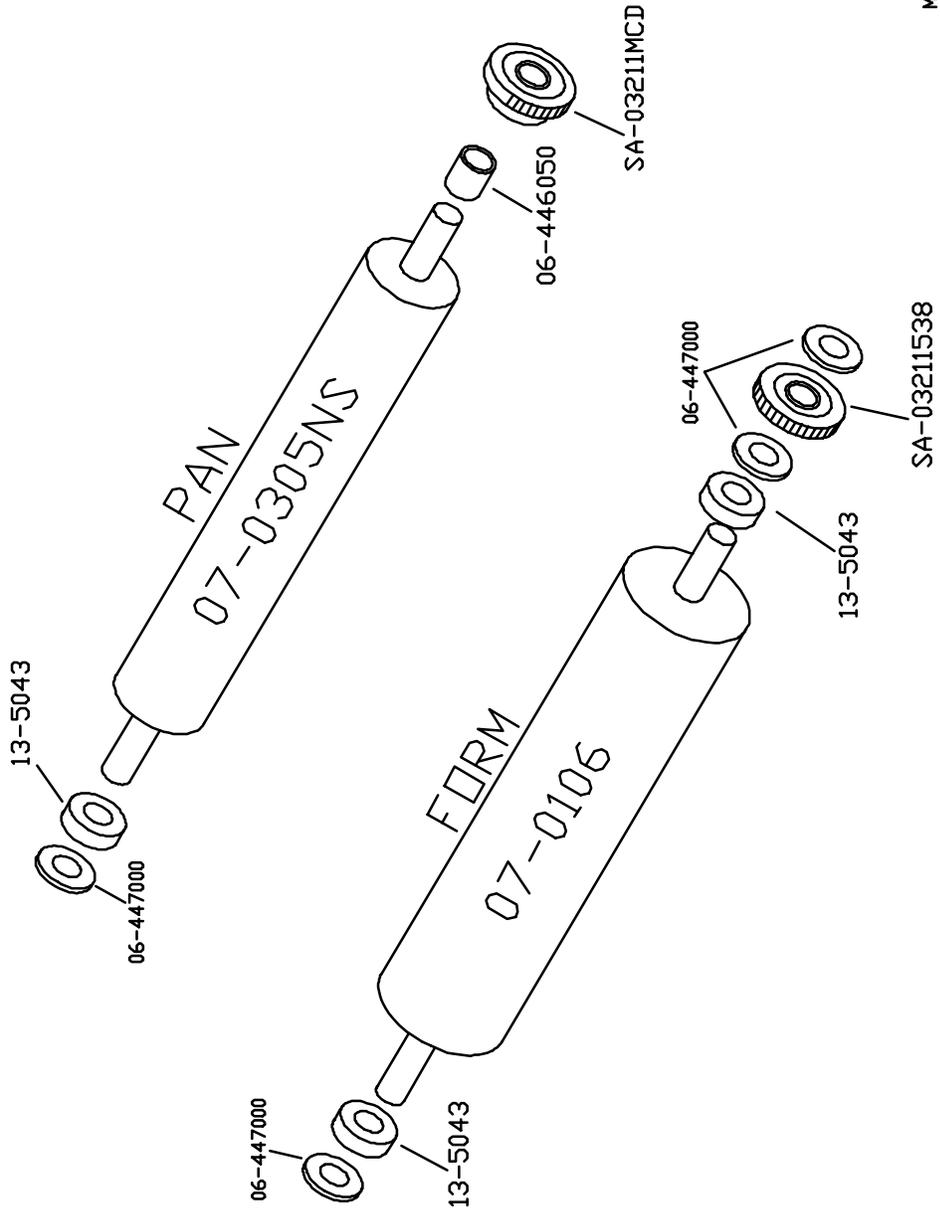


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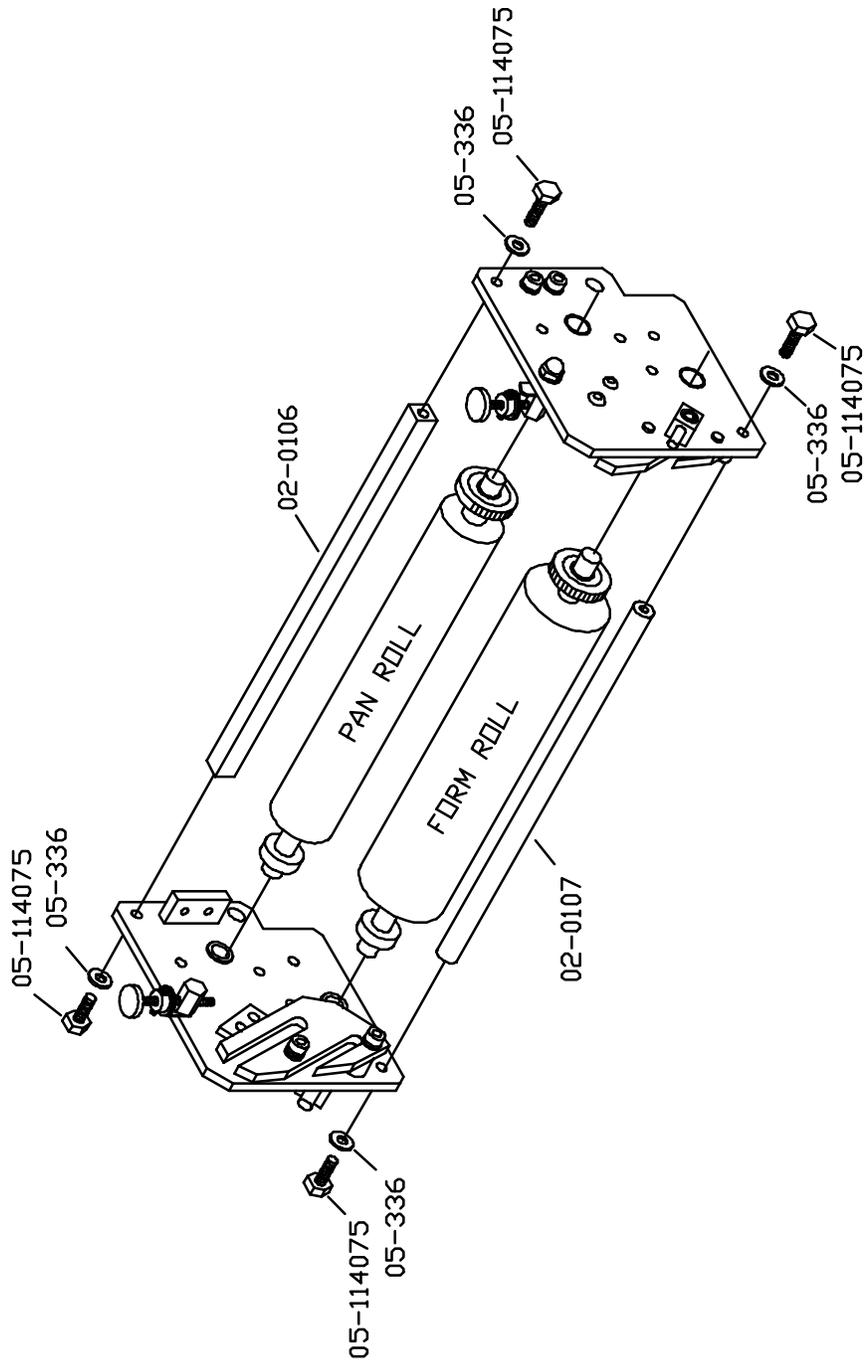


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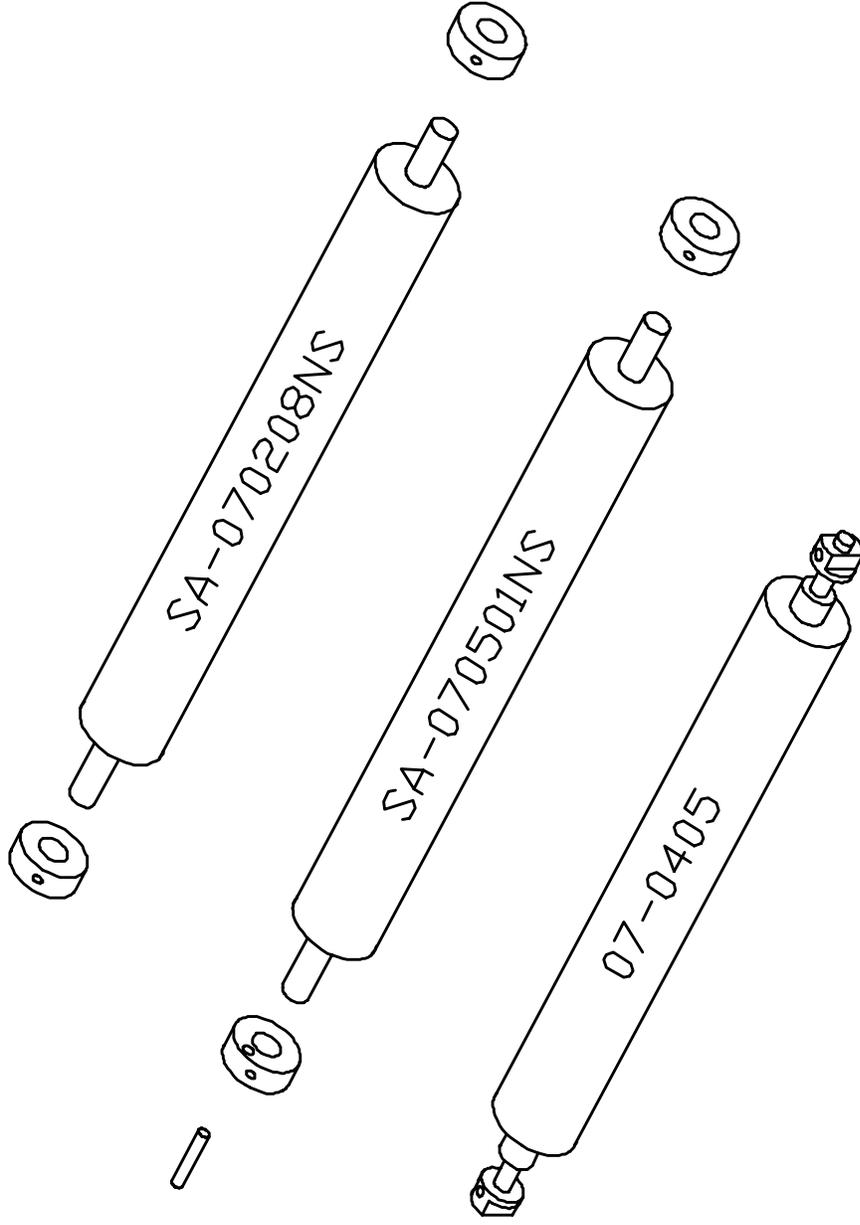


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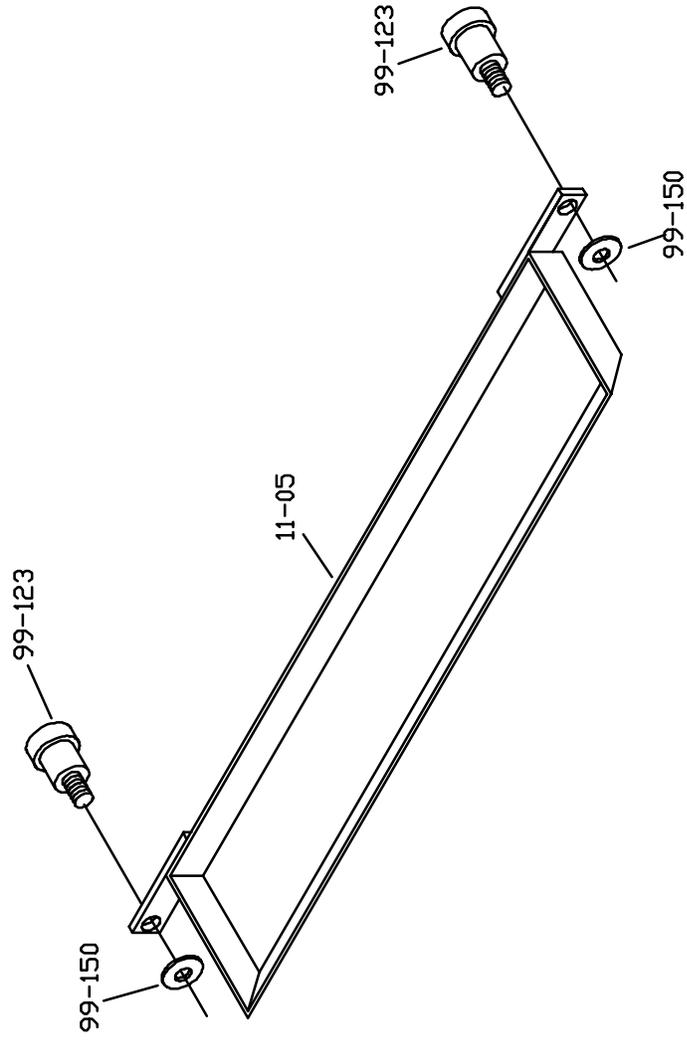


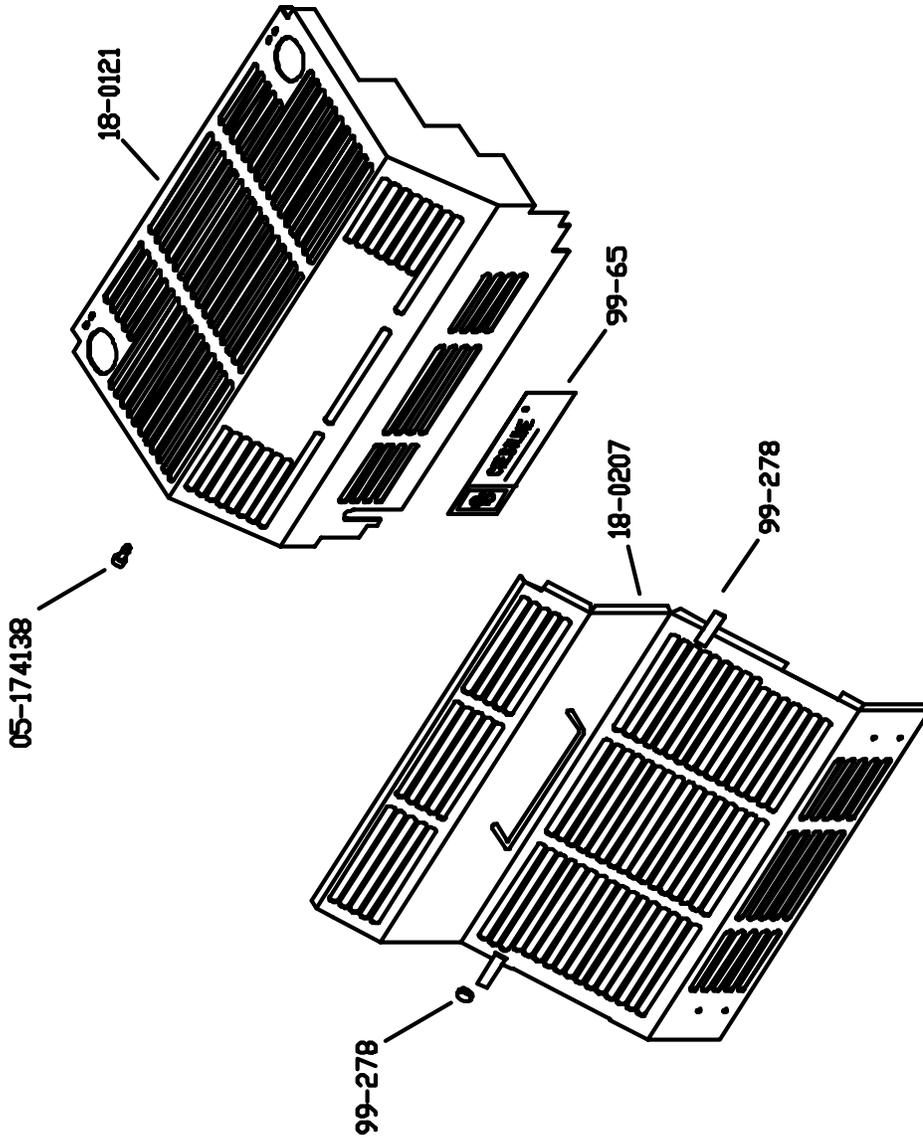
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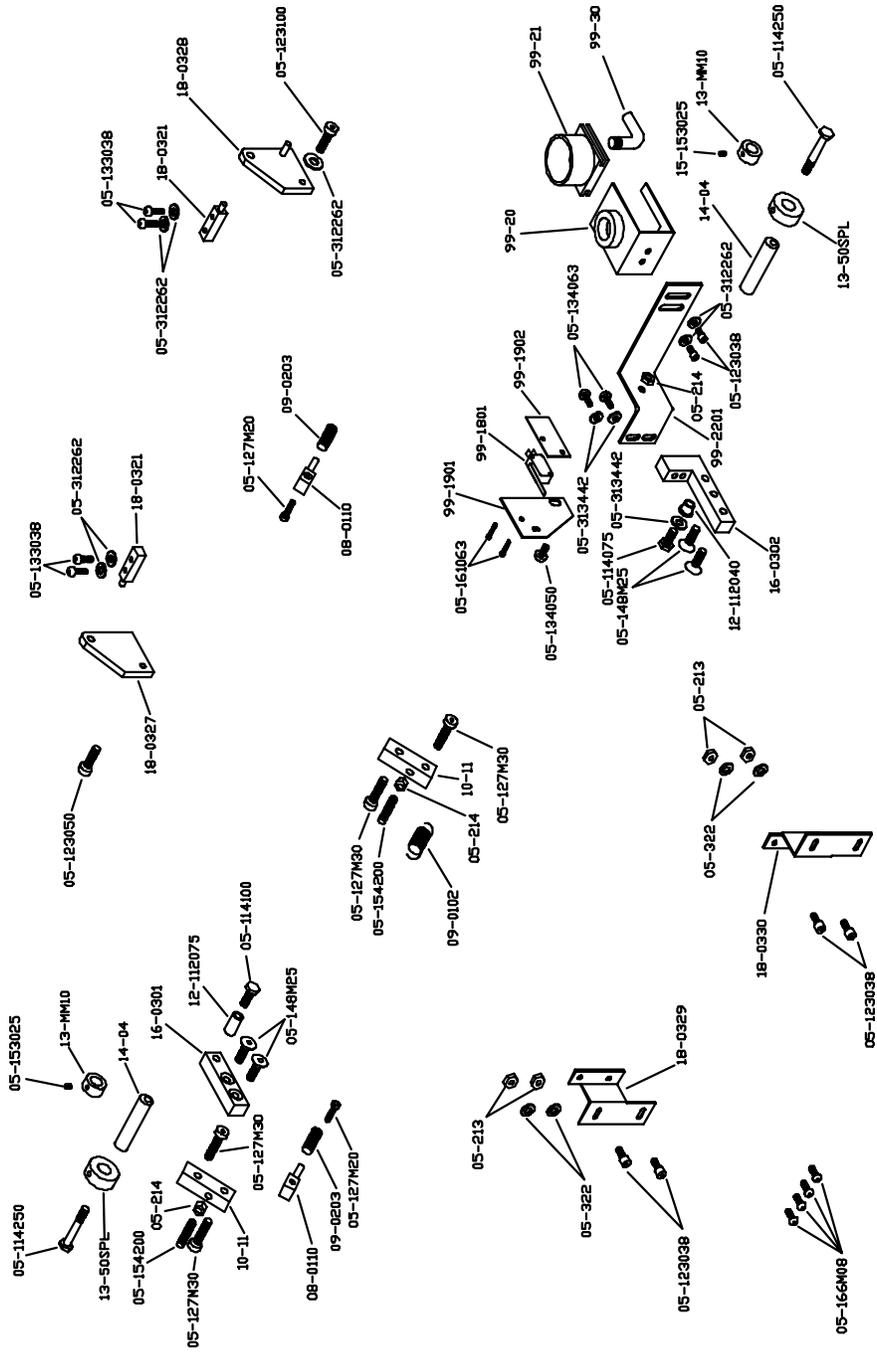
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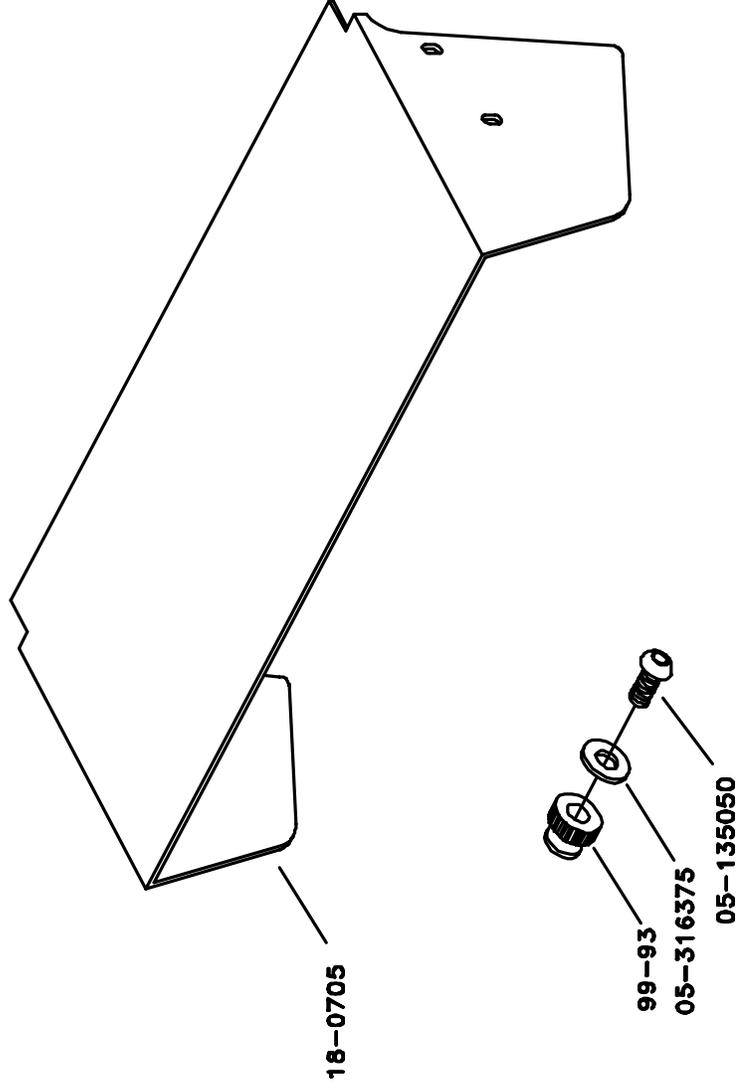




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MCD12, 4-10-98

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