

# Crestline® Dampening System

## Installation Instructions

Multi 1360, 1650

PRINTERS PARTS  
800-543-1117 201-935-9595  
fax 800-392-4072 201-935-5333  
[www.ppsnj.com](http://www.ppsnj.com)

**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 System's Dealers.

If the operating characteristics or the appearance of your product differs from those described in this manual, please contact your local Accel Graphic System's 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:**

**PRINTERS PARTS**

**800-543-1117 201-935-9595**

**fax 800-392-4072 201-935-5333**

**www.ppsnj.com**

#### **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.**

## Frequently Used Part Numbers

### Rollers

All units now have a soft rubber pan roller and a hard rubber metering roller. Old style rollers (hard pan and soft metering) are no longer available.

X07-0115A	Form Roller, Soft
X07-0314NS	Pan Roller, Soft
X07-0414A	Oscillator Roller, Hard
XSA-070215NS	Metering Roller Assy., Hard (Roller, shaft, clip, collar)
XSA-070508A	Intermed. Assy., Soft (Roller, shaft, clip, collar, roll pin)

### Side Frame Assemblies

XSA-011010O	OPS Side Frame w/ bearings
XSA-011010N	NOPS Side Frame w/ bearings

### Gears

XSA-03300540	Form Gear Assy. (Gear w/ clutch bearing)
XSA-03300527	Pan Gear Assy. (Gear w/ clutch bearing)
XSA-03300517U	Upper Idler Gear Assy. (Gear w/ bushing, bolt)
XSA-03300517L	Lower Idler Gear Assy. (Gear, spool, bushing, bolt, washers)

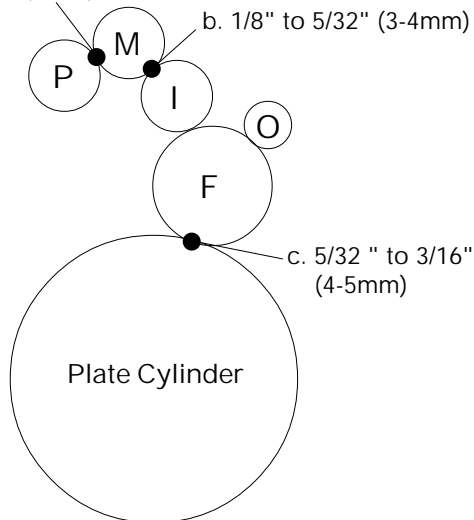
### Side Frame Bearings

(After serial number 9206-07319)	
X06-108	Sealed Ball Bearing (4 per dampener)
(Before serial number 9206-07319)	
X06-346038	Thin Flanged Bushing (4 per dampener)

### Miscellaneous

XSA-9903	Metering Thumb Screw Assy. (Thumb screw, ratchet gear, set screw)
X11-17	Water Pan
X99-28	Water Pan Hose
XSA-9905	Water Bottle (w/ cap)
X99-61	Wash Up Bottle
X88-23	Installation Manual

a. 3/16" (5mm)      b. 1/8" to 5/32" (3-4mm)



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#### Adjustments

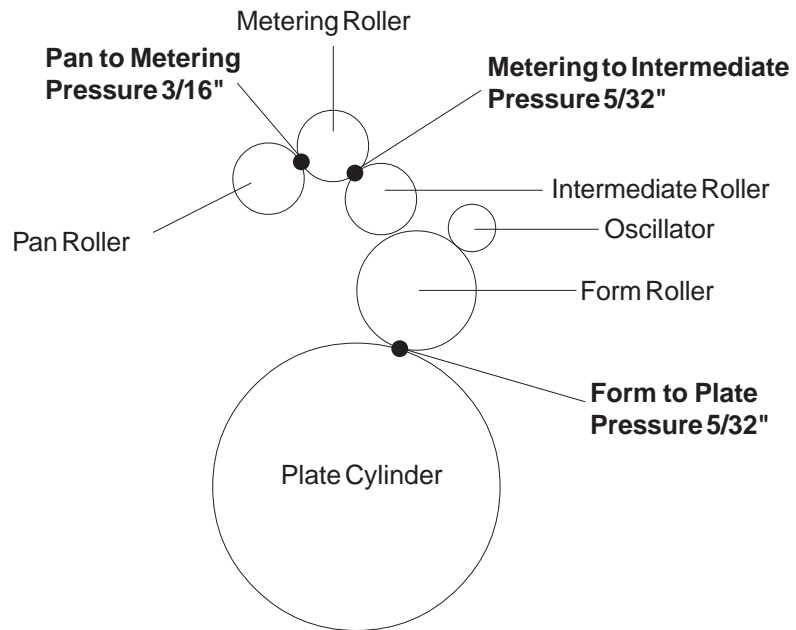
- a. Metering to Pan
- b. Metering to Intermediate
- c. Form to Plate

#### Roller Description

P	=	Pan, Soft
M	=	Metering, Hard
I	=	Intermediate, Soft
O	=	Oscillator, Hard
F	=	Form, Soft

# GENERAL INFORMATION

## BASIC CONFIGURATION OF CRESTLINE



## TERMINOLOGY

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

## TECHNICAL ASSISTANCE

For technical assistance during the installation, please contact:

### ACCEL GRAPHIC SYSTEMS

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

## GENERAL INFORMATION

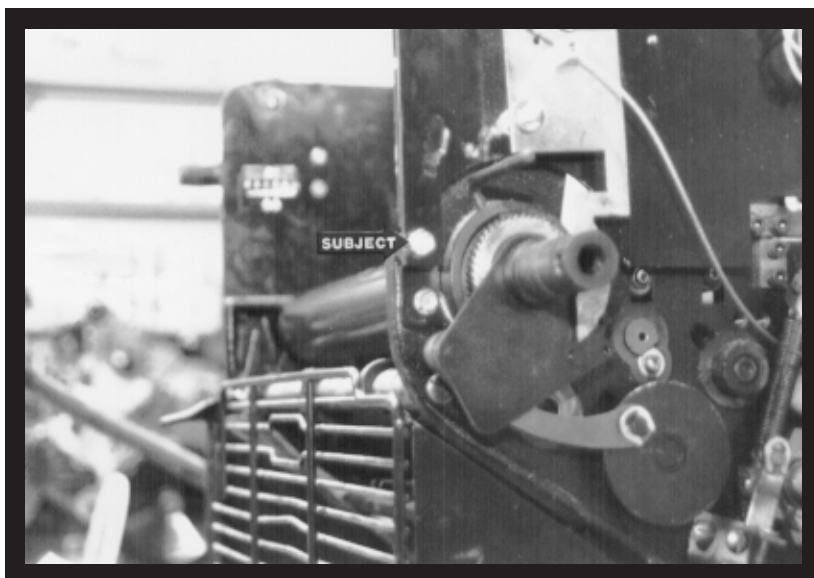
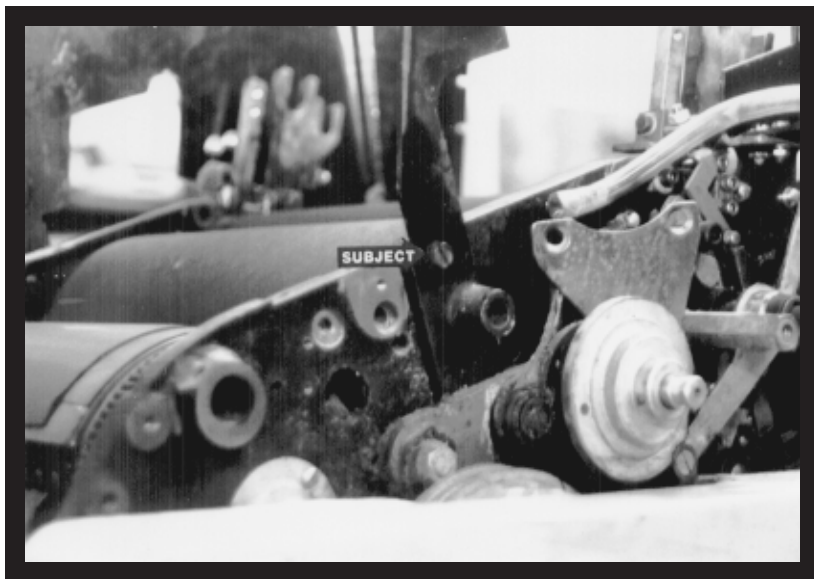
### REQUIRED TOOLS

1. Phillips Screwdriver
2. Standard Screwdriver
3. 5/8" Open End Wrench
4. 7/16" Open End Wrench
5. 3/32" Allen
6. 1/8" Allen
7. 5/32" Allen

# GENERAL INFORMATION

## PRE-INSTALLATION PROCEDURES AND CHECKING THE DAMPENER FOR PARALLEL.

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 off in shipping.
3. Check the dampener alignment by setting it on end on a flat surface as shown. (Cutter bed works best.) If dampener rocks, it needs to be re-aligned. Loosen tie bar bolts (subject arrows) at OPS and allow the frames to align themselves on the flat surface. Retighten bolts.



# DISASSEMBLY

1

Remove operating handles and upper side covers from OPS & NOPS sides of the printing head. Remove the water tray and cloth covered rollers from the printing unit. Unhook the microswitch at the NOPS for the dampener & inker guards. Remove the dampener & inker guards by taking out the tie bar between the sheet metal plates. The guards & microswitch will be used later. (Crestline fits under the existing Multi guards on the 1360 & 1650.

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2

The large, sheet metal side plates on the press restrict access to the old dampener. There are 2 screws holding each, one near the blanket cylinder (upper photo, subject arrow) and one near the ink fountain roller (lower photo, subject arrow). Remove these screws.

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7



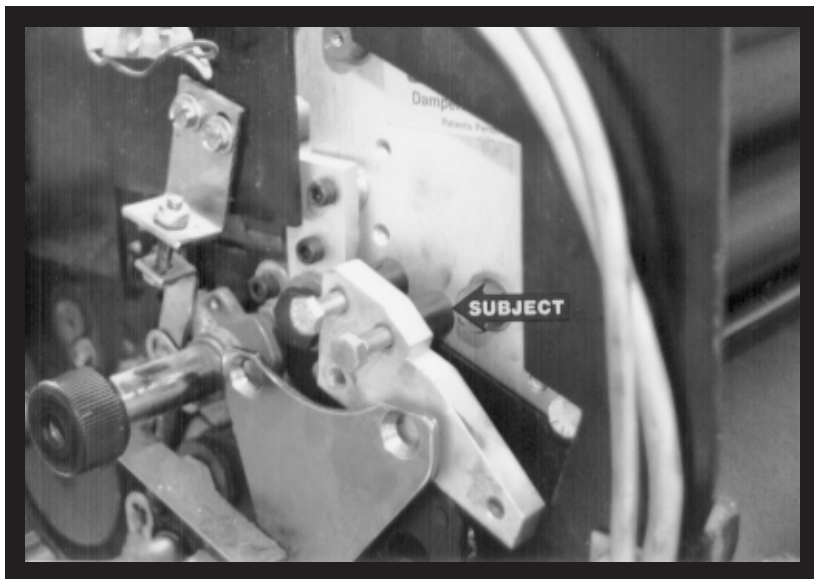
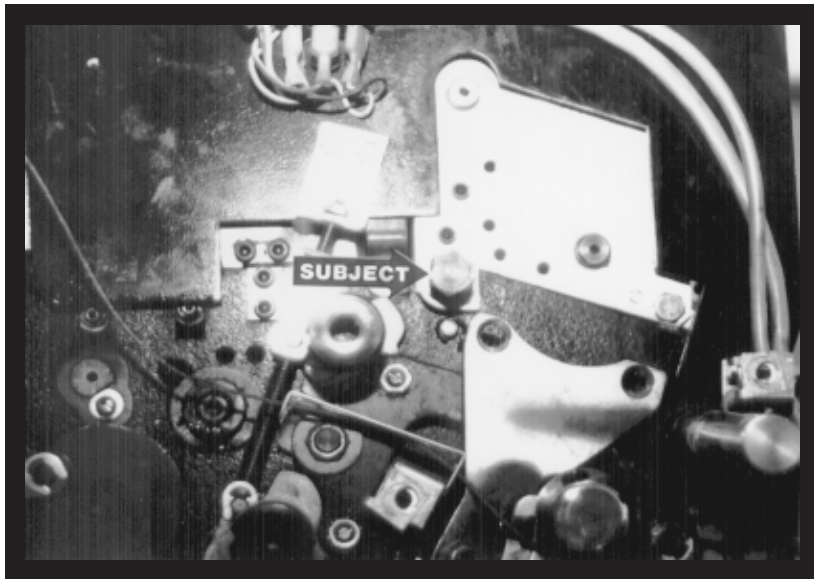
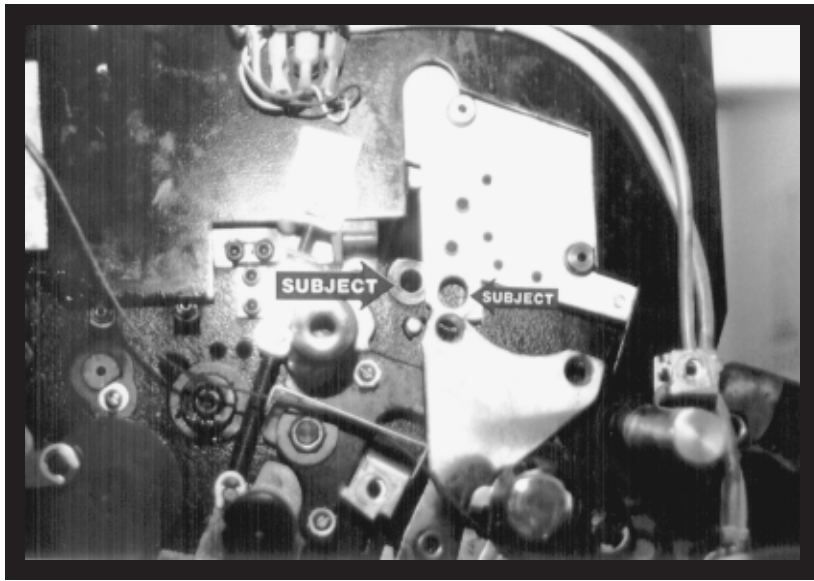


3

Unhook the water bottle from the old dampener and save. Crestline uses the old water bottle mechanism. Beneath the water pan are two large bolts, one on each side, that hold the dampener to the frame. Remove the large bolts. **NOTE: The bolts hold a tie bar. Be sure the tie bar does not drop and strike the plate cylinder.** Undo the bolts that hold the single lever yoke to the dampener. Yokes are located at both OPS & NOPS. Pull the old dampener out of the press. Reattach the sheet metal side plates.

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# INSTALLATION

**1**

To install the Crestline, first remove the pivot blocks at OPS & NOPS of the dampener (small subject arrow). The OPS has a thin spacer, the NOPS a thick spacer. Be sure to keep the spacers on the proper sides when reinstalling the pivot blocks. Slide the dampener between the sheet metal plates and reinstall pivot blocks with spacers. Align the bushing in the pivot block with hole in the press frame (large subject arrow).

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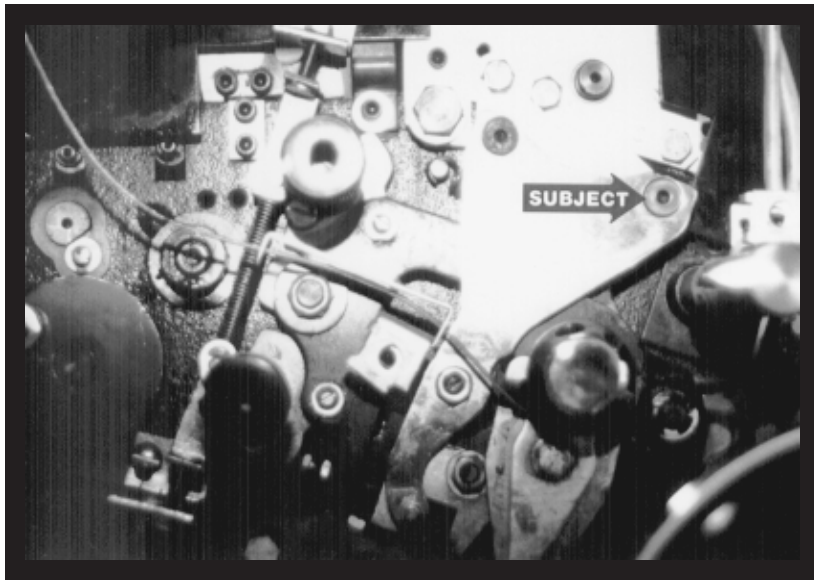
**2**

Place the dampener on the press frames and bolt in place at OPS & NOPS using the bolts provided (subject arrow). Make sure the press tie bar goes back into its original position.

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**3**

Attach the lift blocks to the dampener frame at OPS & NOPS. Be sure to place the thin spacer at the OPS, the thick spacer at the NOPS.



## INSTALLATION

**4**

Attach the yoke to the blocks as shown (small subject arrow), placing the 7/16" long spool between the yoke and the lift block (see drawing below). Make sure the eccentric bearings (large subject arrow) on the backside of the yokes are positioned correctly against the single lever cams. (It may help to unhook the tension spring from the bottom of the yoke when attaching them to the blocks.)

**5**

Place the single lever in the "Off" position and adjust the dampener lift via the eccentric bearings on the back of the yoke until you have about .040" lift of the form roller off the plate cylinder.



## FINAL ADJUSTMENTS

1

Mount a metal plate to the plate cylinder. Dab a small amount of ink on the dampener oscillator and run the press at 3,000 iph to distribute it evenly on all the rollers.

2

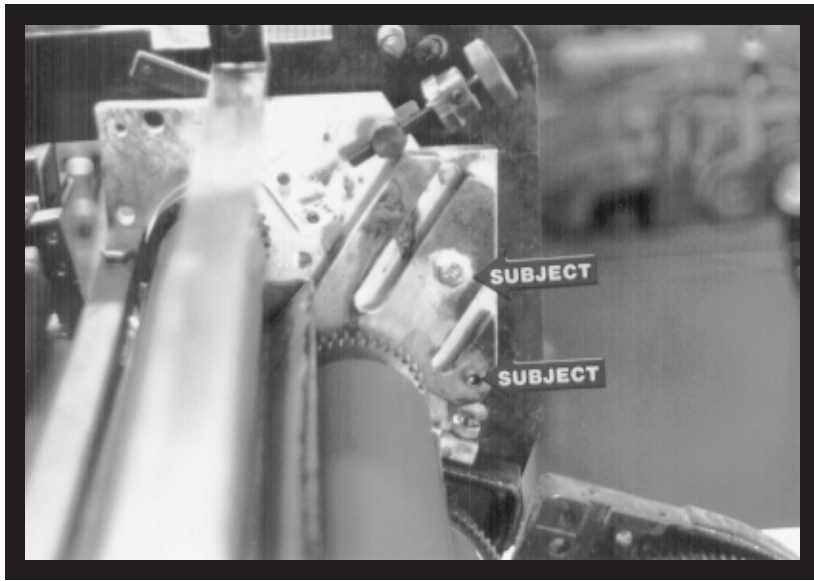
Move the single lever and drop the water form roller to the plate. Loosen the lock nut & adjust the screw (subject arrow) until the form roller leaves an even  $5/32$ " stripe to the plate. **Turning the screw clockwise makes a thinner stripe.** Lock the screw in place with the lock nut.

3

Set the pressure between the metering and pan rollers as follows:

1. Spin the ratchet gear (subject arrow) down until it stops against the cross piece.
2. Adjust the knurled knob down until an even  $3/16$ " stripe is obtained between the pan and metering rollers. Always check the stripe on the pan roller.
3. Lock the ratchet gear to the knurled knob by tightening the two set screws in the ratchet gear. (They are brass tipped and should not damage the threads on the knurled knob.)





## FINAL ADJUSTMENTS

4

Adjust metering to intermediate roller pressure by loosening the hanger bolt (subject arrow) and pivoting the entire hanger assembly towards the metering roller. (Bolts located at OPS & NOPS.) Check the stripe between the metering and intermediate rollers and adjust until it is an even  $5/32$ ". (The best way to check the stripe is to drop the water form to the plate and rotate the press backwards by hand.)

Mount the water pan and attach the hose. Set the water height in the pan by adjusting the bracket. Re-install the dampener & inker guards.

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## BASIC OPERATION

### START OF DAY

- A. Make sure the oscillator, lower intermediate and metering rollers are in place.
- B. Spin knurled knobs until the shoulder on the ratchet stops against the stud bar.
- C. 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.

- D. 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.

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### 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" 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 counter clockwise 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. It will be necessary to drop the forms manually rather than by the single lever. 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.
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.

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### 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

If you are running electrostatic master on a daily basis, the dampener should be deglazed at least once a week with a 50/50 mixture of household ammonia and hot water. Use the mixture like a press wash.

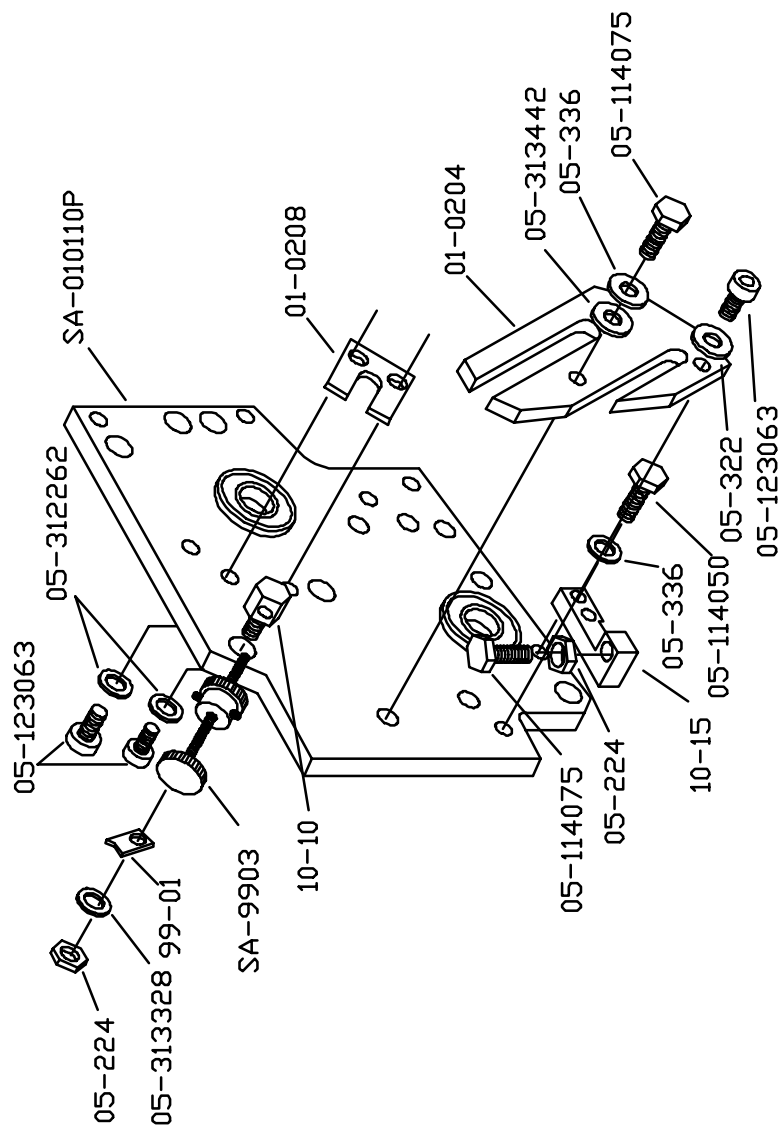
### ACCEL RECOMMEND AVOIDING DEGLAZERS CONTAINING PUMICE OR GRITTY SUBSTANCES.

Avoid washes that are extremely fast drying. Cresline's form and metering rollers are made of relatively soft rubber and should not be subjected to harsh, fast drying washers, especially those containing acetone. Fast drying washes should be used for blankets only!

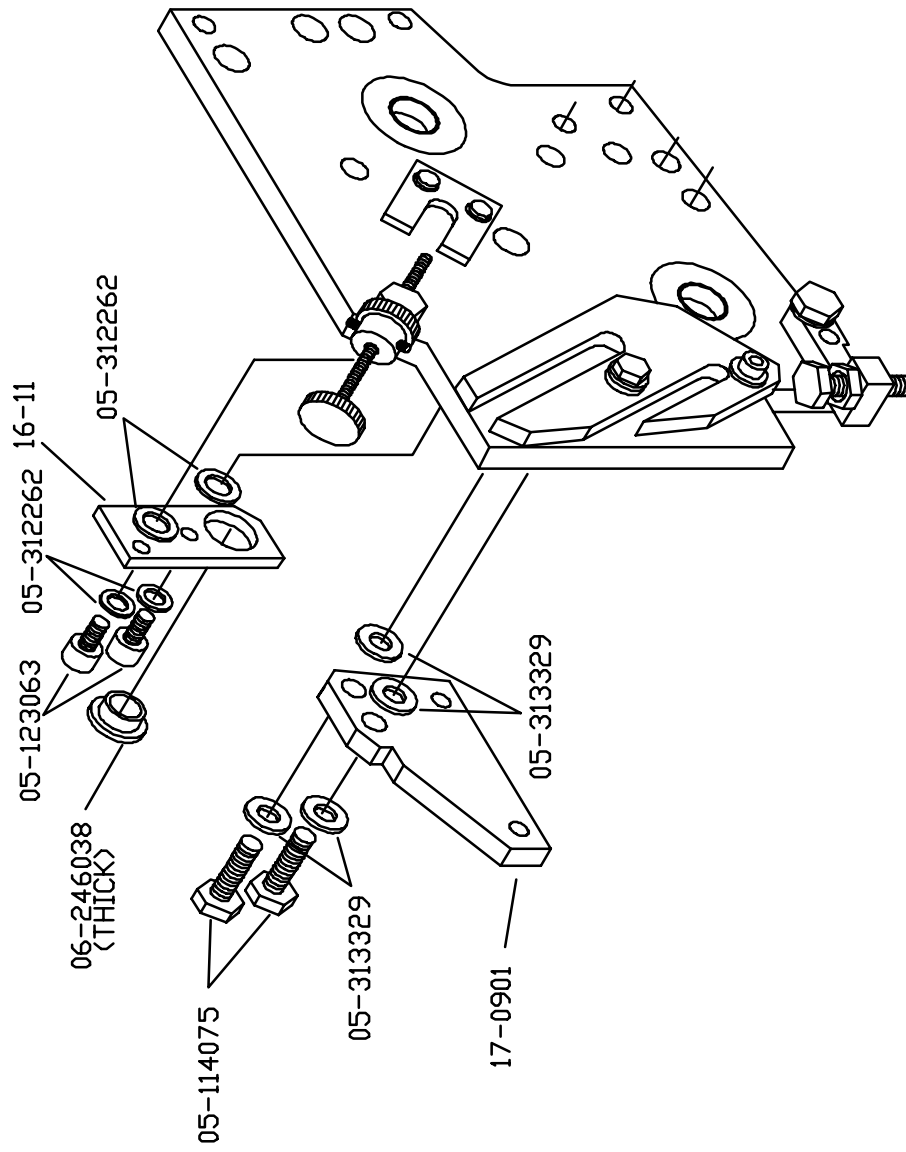
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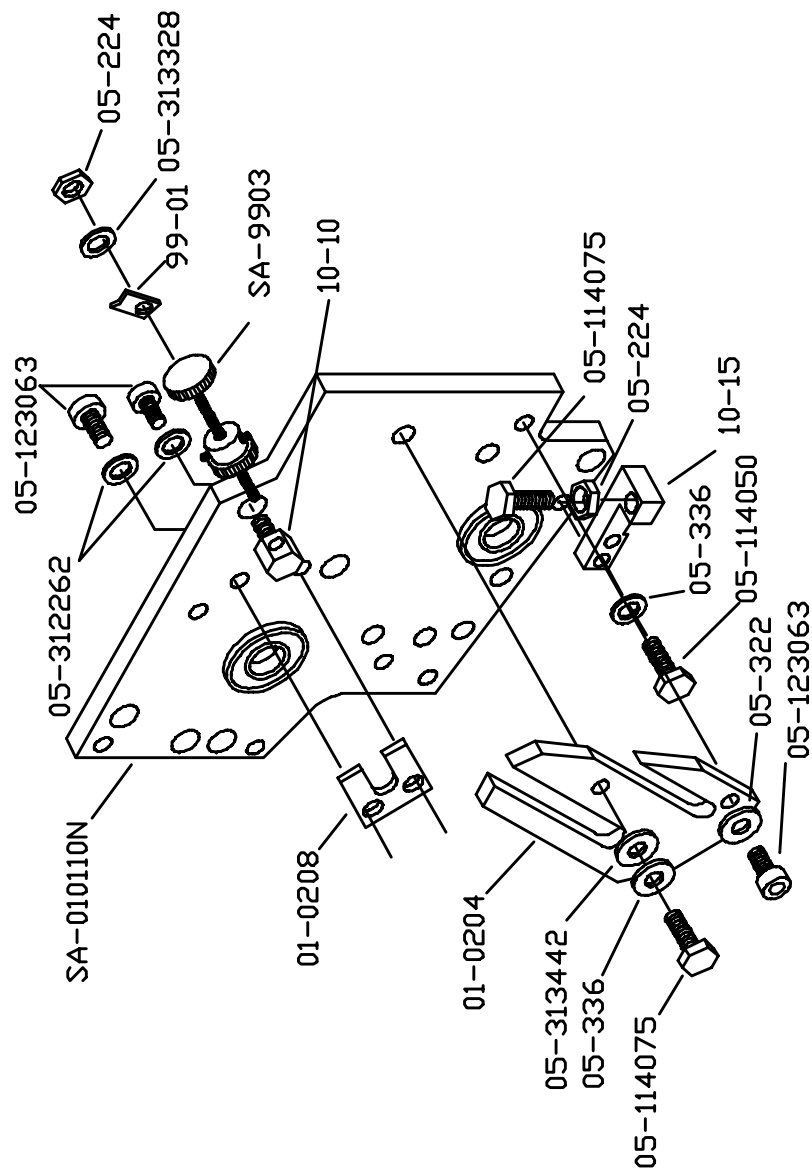
### OILING AND GREASING THE DAMPENER

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



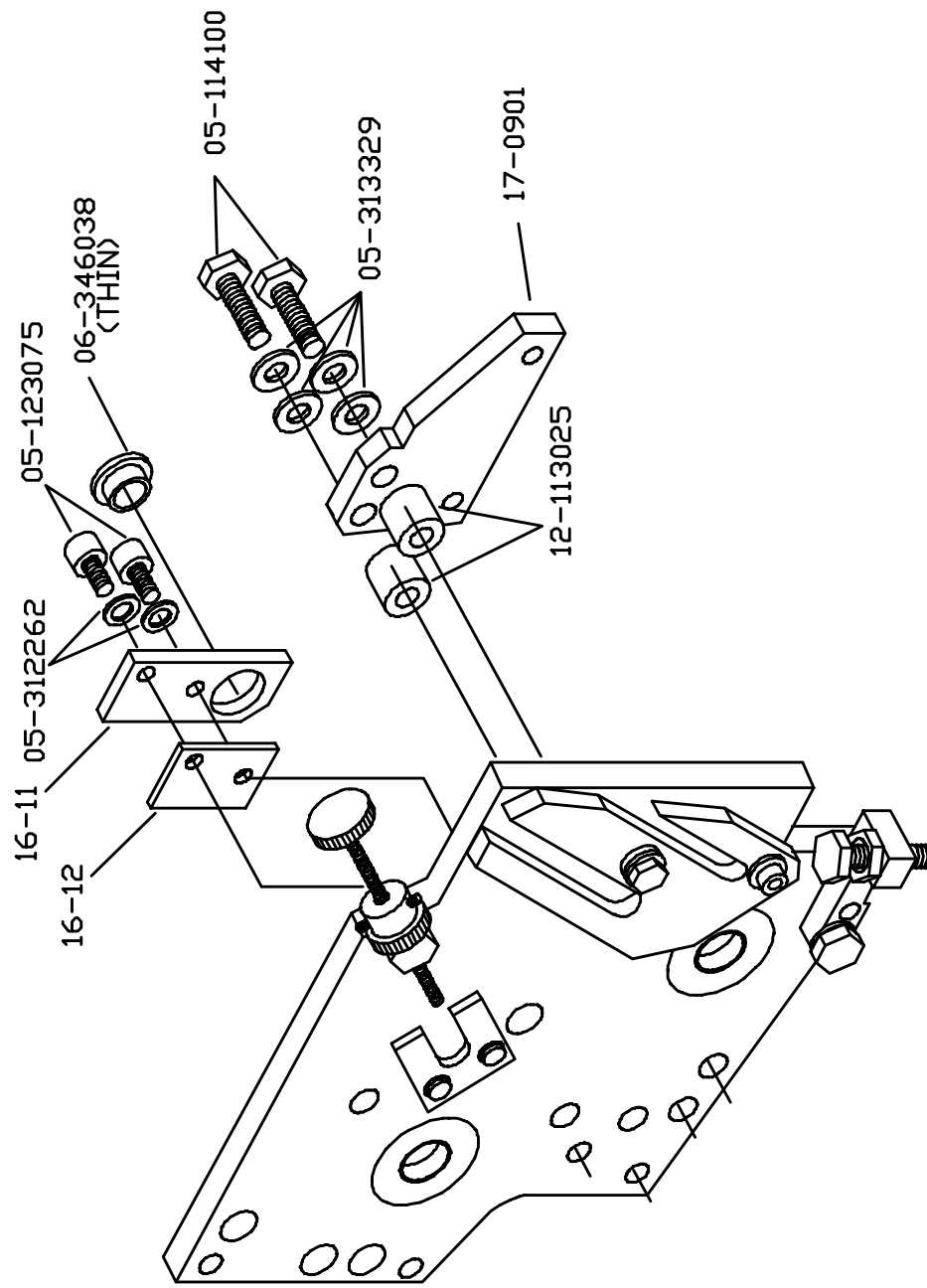
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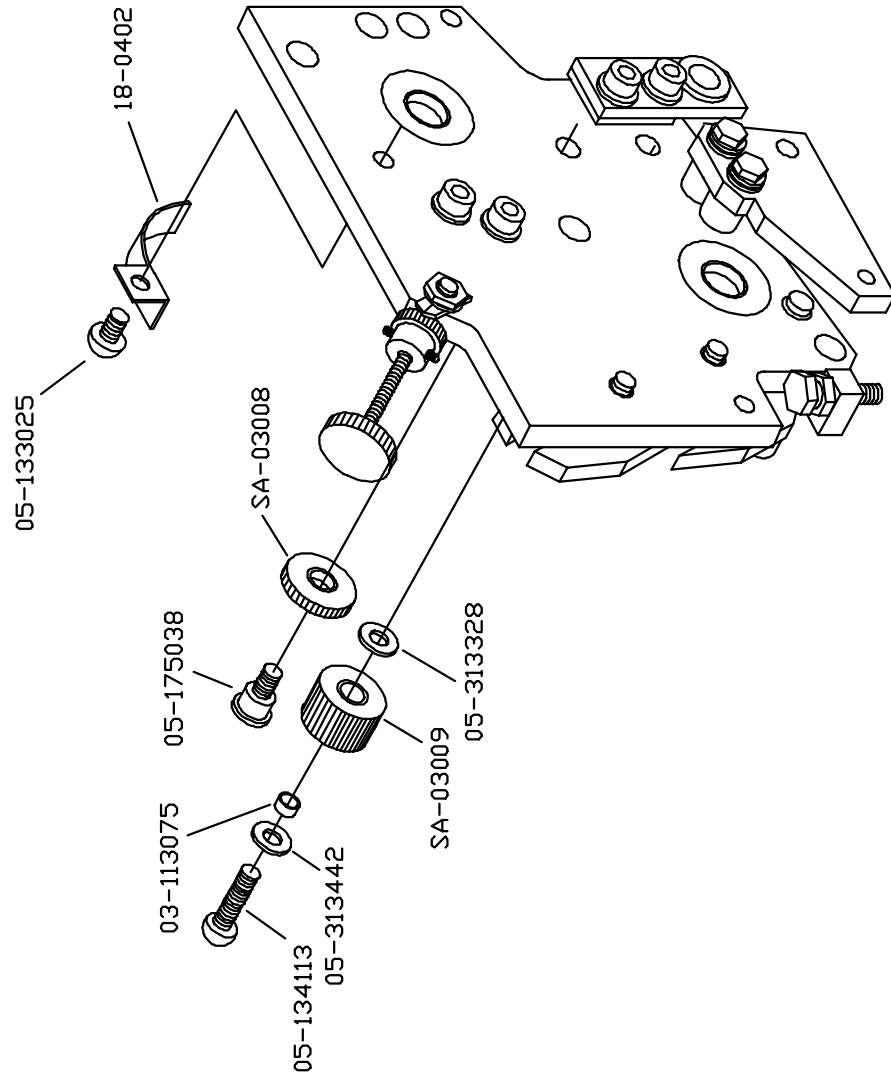




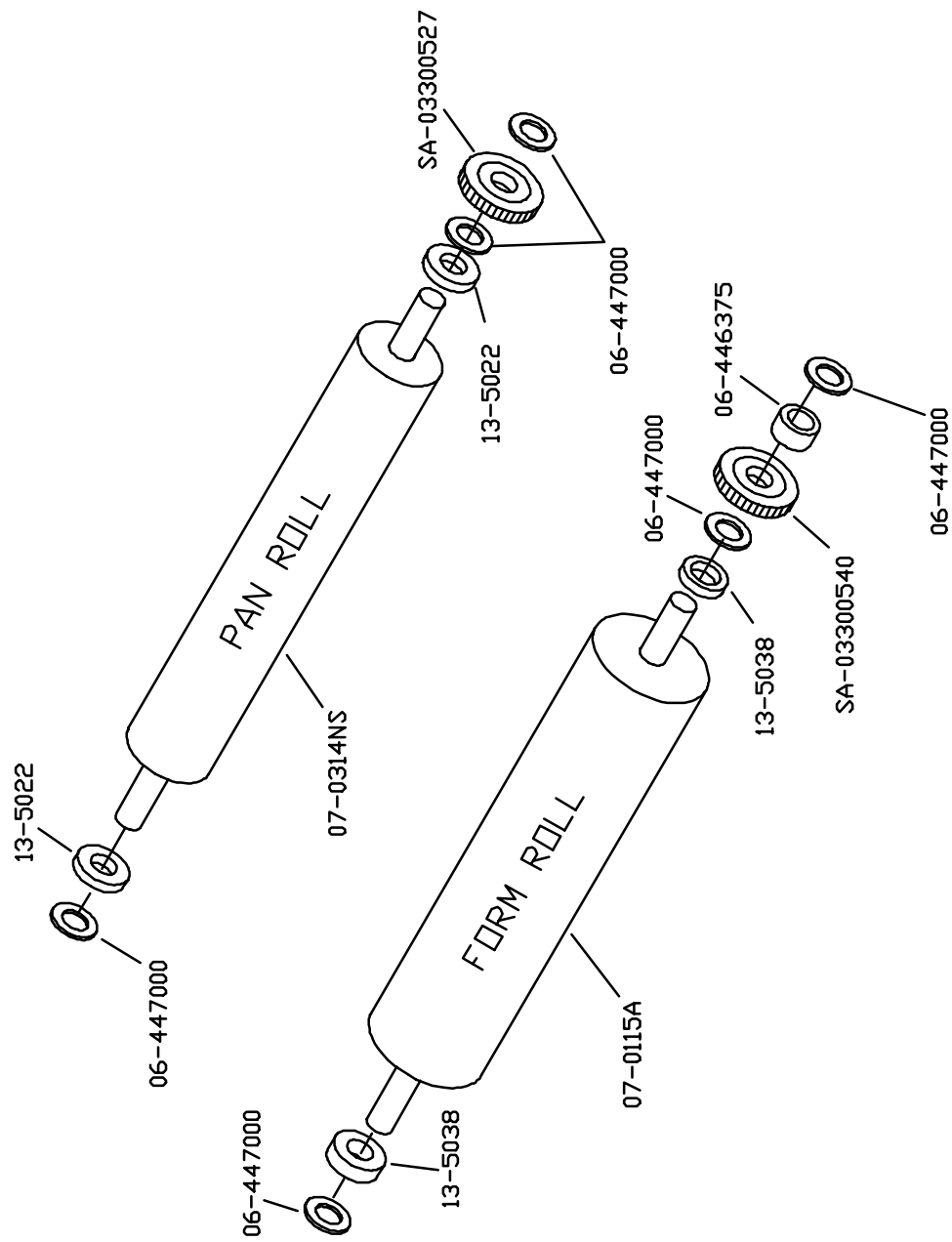
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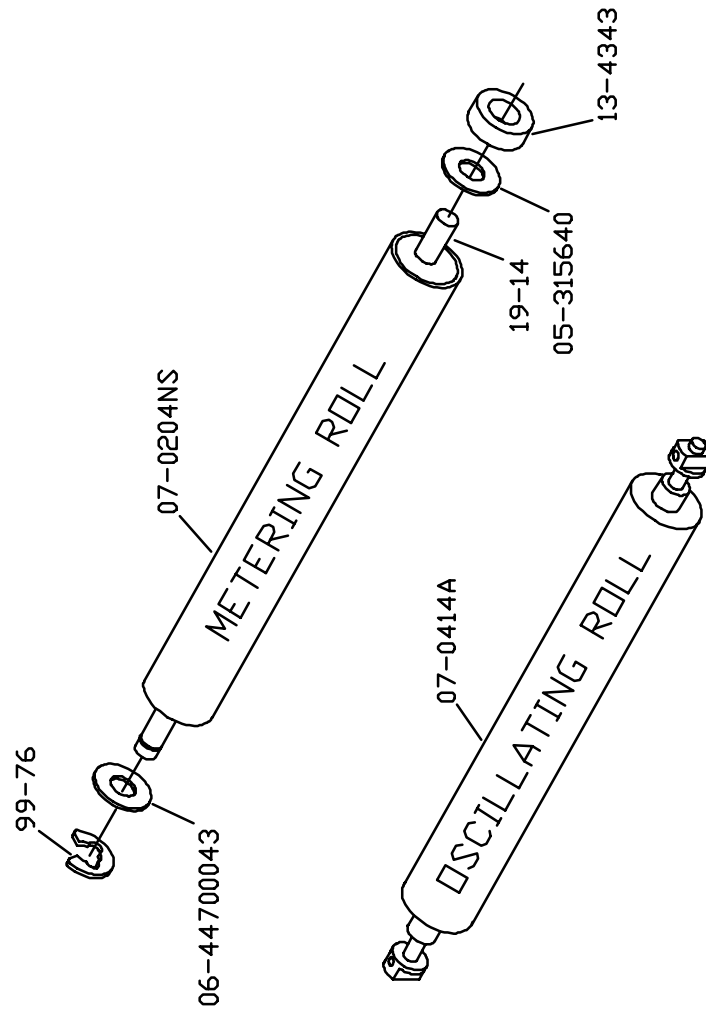




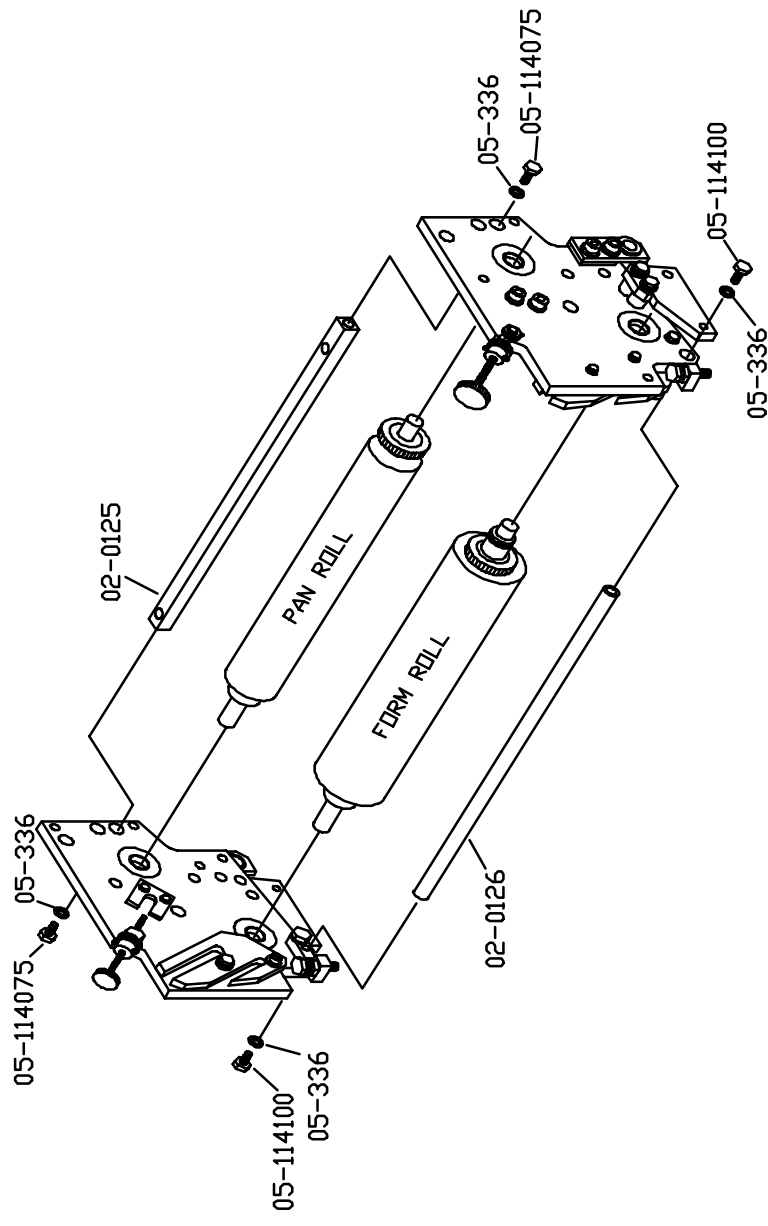


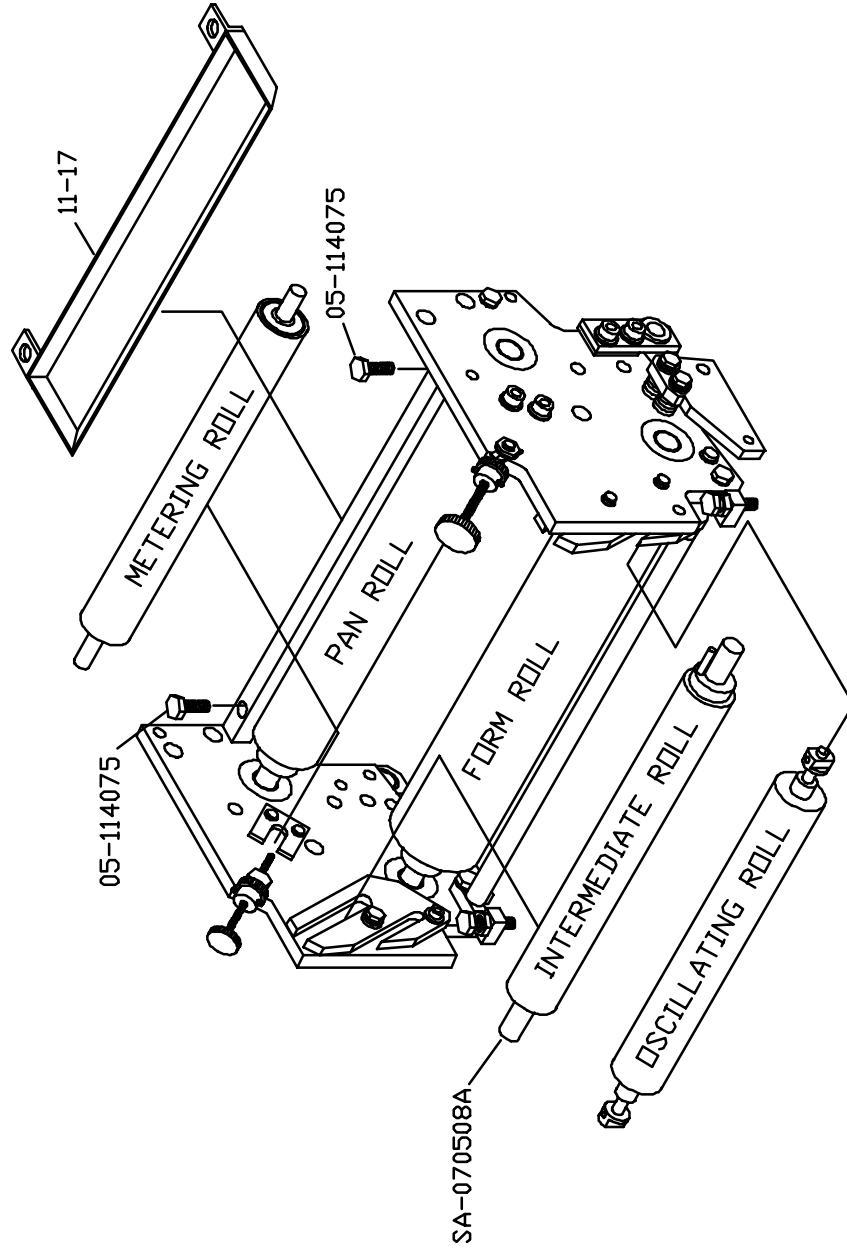
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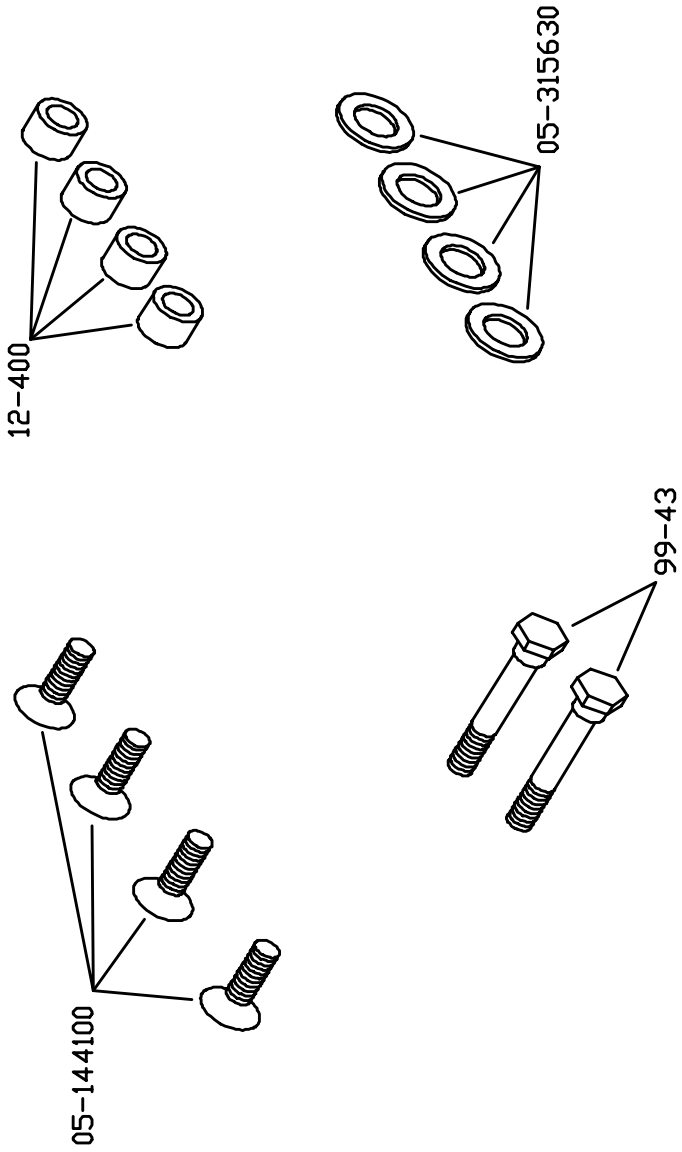


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1650C09, 8-20-97









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