CRESTLINE® DAMPENING SYSTEM

INSTALLATION INSTRUCTIONS

Toko 4700

ACCEL®

Graphic Systems

X88-34
1/98
Rev-A

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:

_____

_____

_____

_____

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

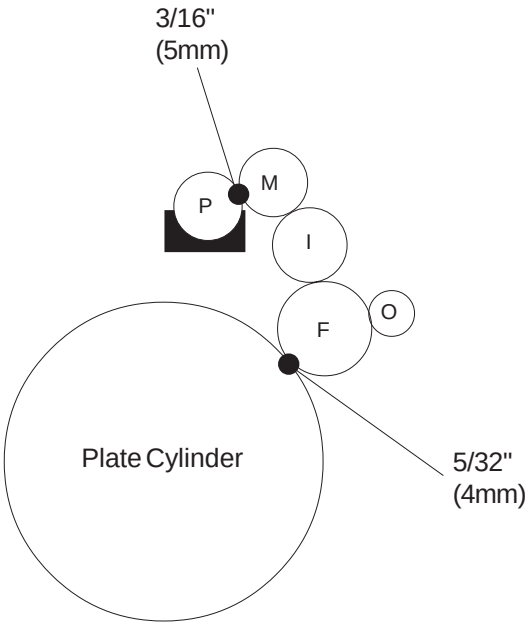
_____

_____

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.

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
11103 Indian Trail
Dallas, TX 75229
Phone (972) 484-6808
Fax (800) 484-6510
E-MAIL accel@dallas.net
WEB SITE www.accelgraphicsystems.com

GENERAL INFORMATION

REQUIRED TOOLS

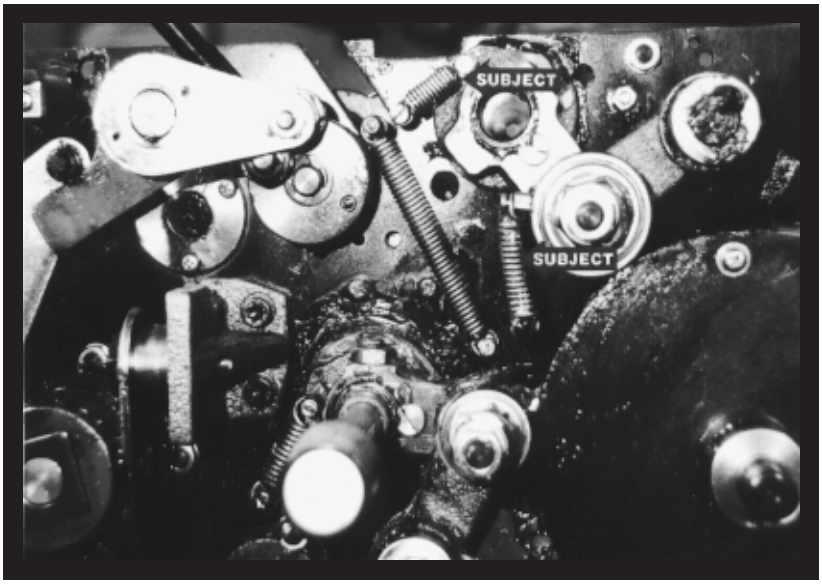
1. Phillips Screwdriver
2. Standard Screwdriver
3. 3/32" Allen Wrench
4. 1/8" Allen Wrench
5. 5/32" Allen Wrench
6. 7/16" Open End Wrench
7. 1/2" Open End Wrench
8. 3/8" Open End Wrench
9. Spring Hook Tool
10. 3/32" Punch
11. Hammer

PRE-INSTALLATION PROCEDURES AND HOW TO PARALLEL THE DAMPENER.

1. Cut the ties holding the rollers and examine the rollers for gouges, scratches or nicks.

2. Check the box and parts boards to make sure all pieces are present and nothing has been damaged in shipment.

3. Check the dampener alignment by setting it on end on a flat surface such as a cutter bed. If dampener rocks, it needs to be realigned. Loosen the tie bar bolt and align the frames on the flat surface. Retighten bolt.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DISASSEMBLY

1 Remove dampener and inker guards, operating handles, and side covers from OPS & NOPS. Remove water pan and the brackets that hold the pan in place. (Pickets removable by undoing a nut on the outside of the press frame.) Remove the upper ink form roller on presses with 3 forms. This forms remains off the press.

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2 On models with 3 ink form rollers, remove the two springs, indicated by the subject arrows, at both OPS & NOPS.

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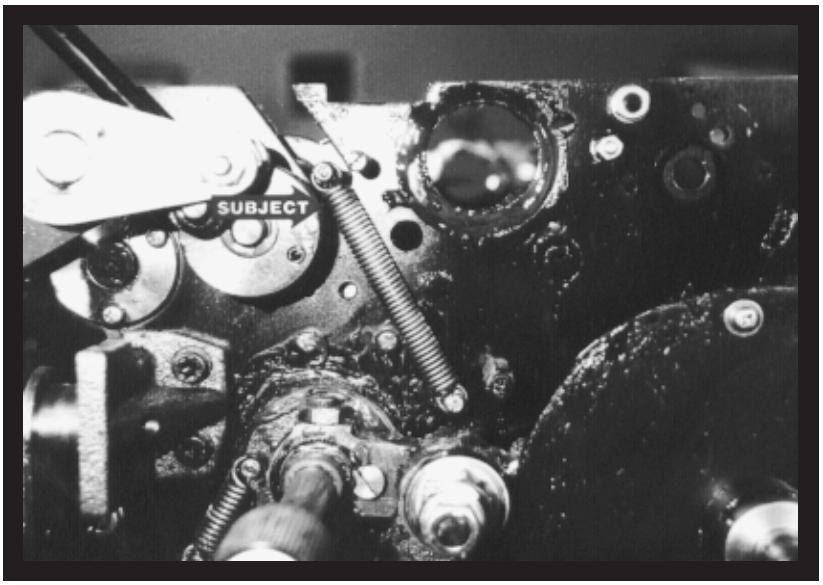
3 On presses with 3 ink form roller, remove collar assembly that holds the uppermost form roller in place by removing collar (subject arrow) & undoing bolt (#2) at OPS & NOPS.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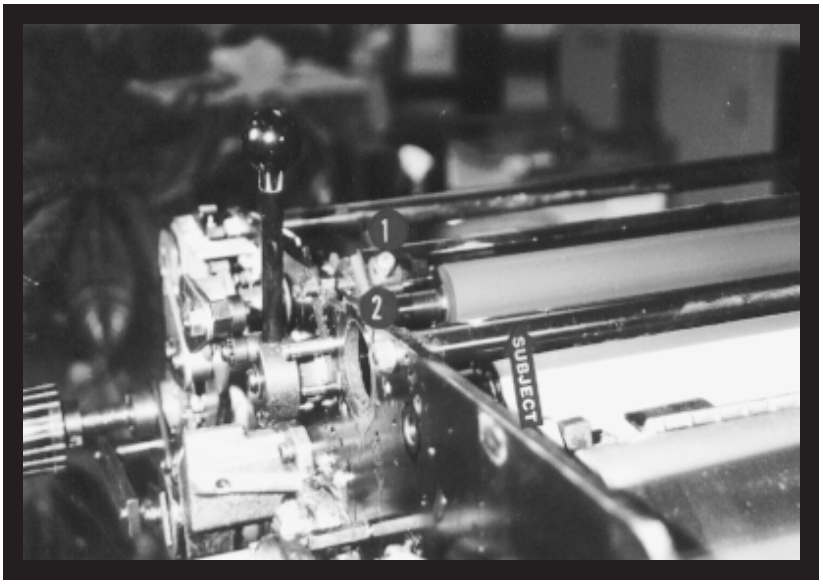
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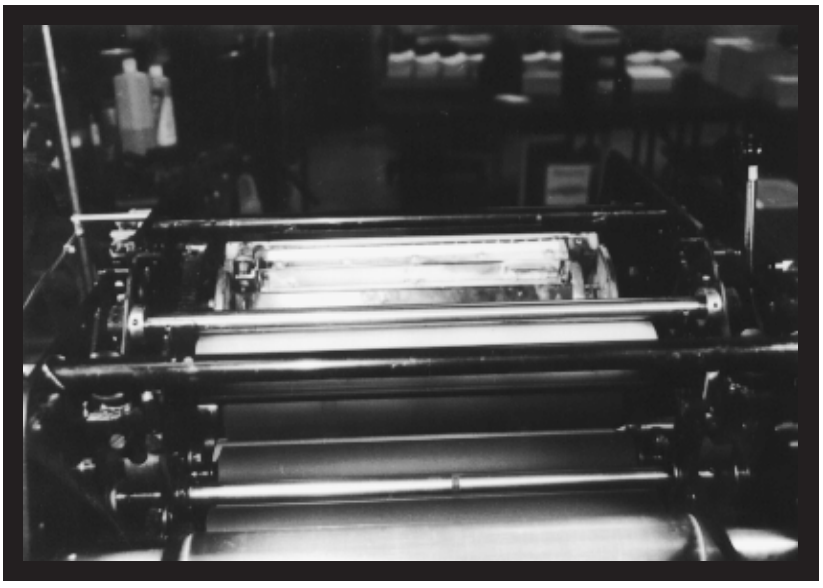

4 Remove spring (subject arrow) at OPS & NOPS.

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5 Take out screw and bracket (#1 & #2). Screws are located at OPS * NOPS. When removing bracket, make sure the spring behind the screw doesn't fall into the press. Once the bracket is removed, the roller (subject arrow) can also be removed.

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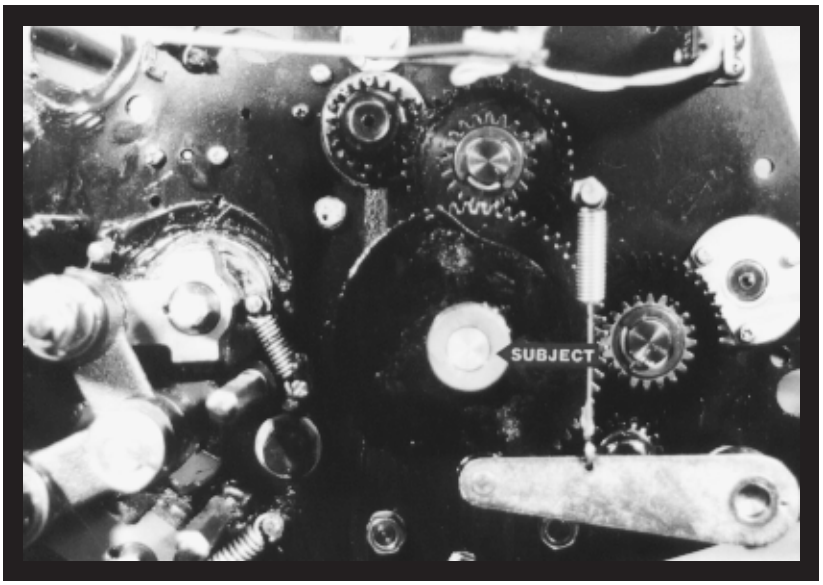
6 The dampening system area of the press should now look like this. (View from delivery end of the press.)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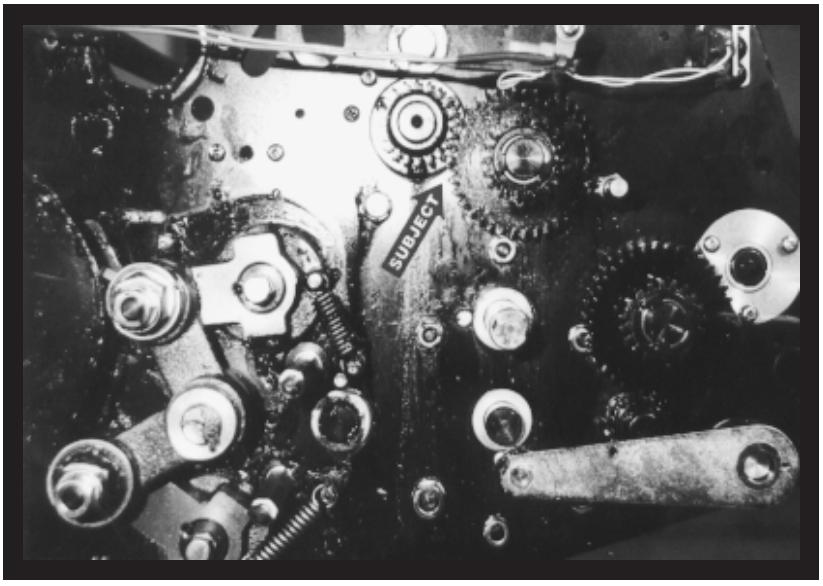
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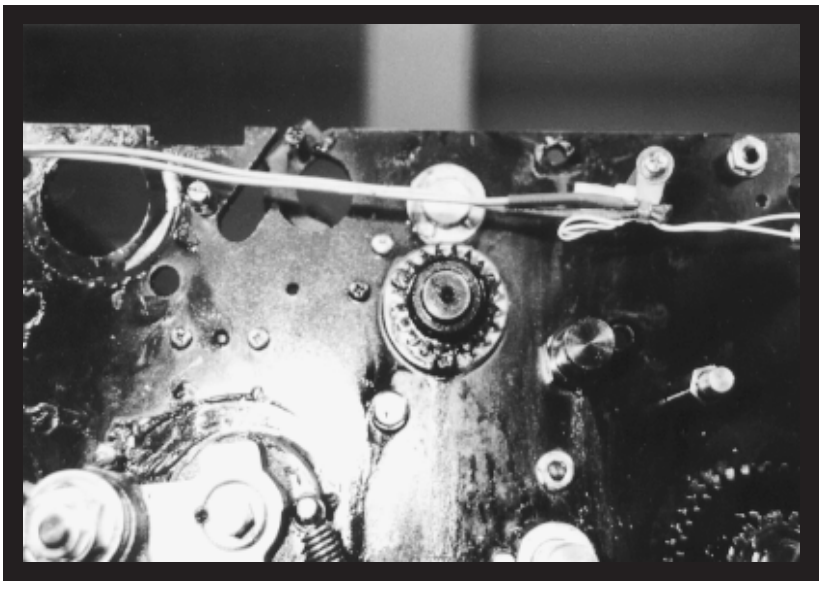

7 Mark the position of the cam on the shaft (subject arrow). Remove cam and large gear behind it. Save the cam and set collar for reinstallation later.

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8 Remove gear to the right of the subject arrow. This remains off the press.

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9 Remove small gear in the center of the picture. Behind the gear is a bronze bushing held by 3 small screws. Remove the screws and bushing. There is a similar set of screws and bushings at OPS. Remove these also.


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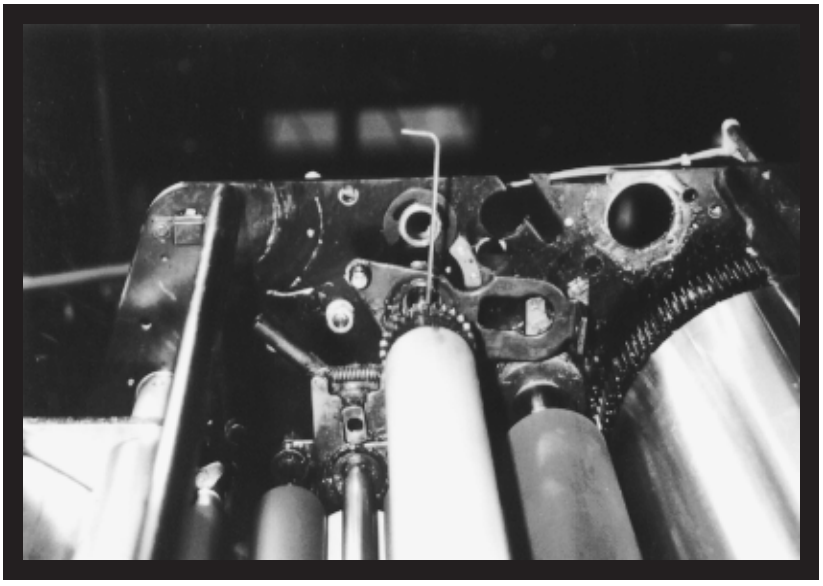


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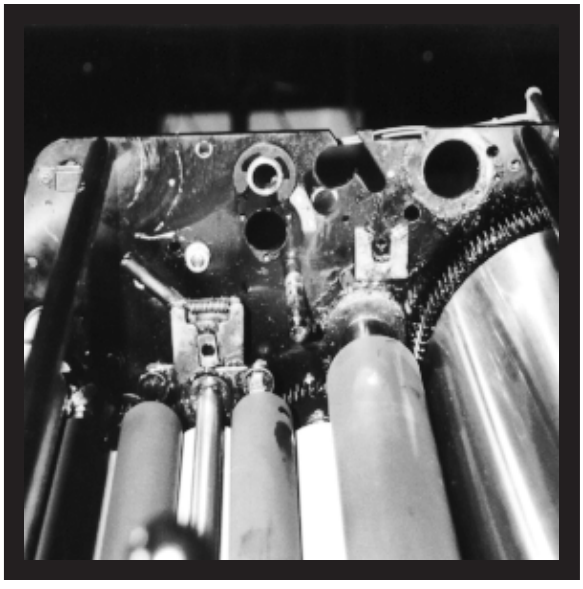

10 Remove upper shaft (subject arrow) by removing the pins and set collar screws in the collars. The shaft can then be pulled out from the press.

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11 Loosen set screws in gear as shown in picture.

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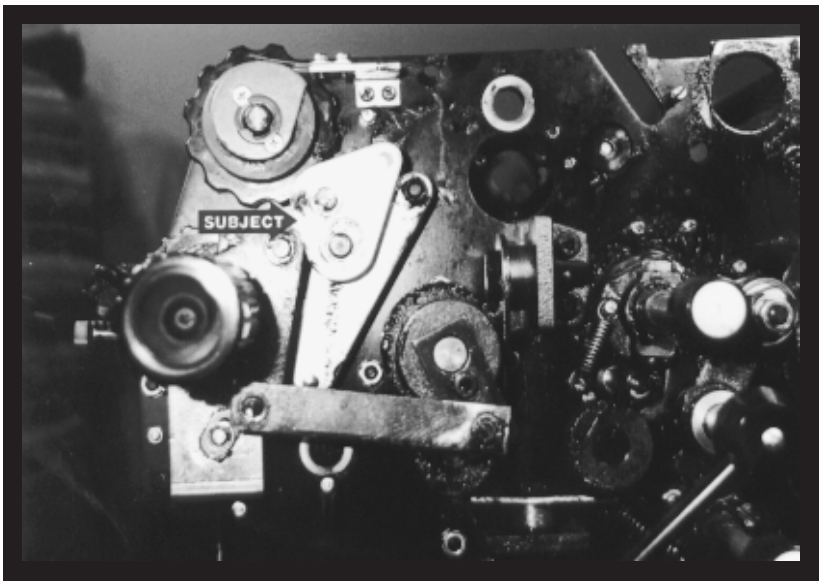
12 Remove large "E" clips on the roller at OPS & NOPS (subject arrow). Pull out roller assembly.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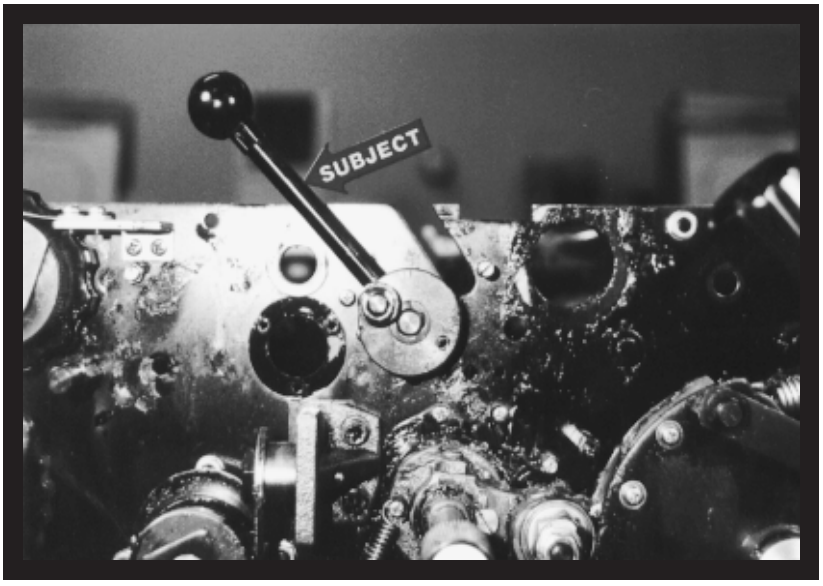
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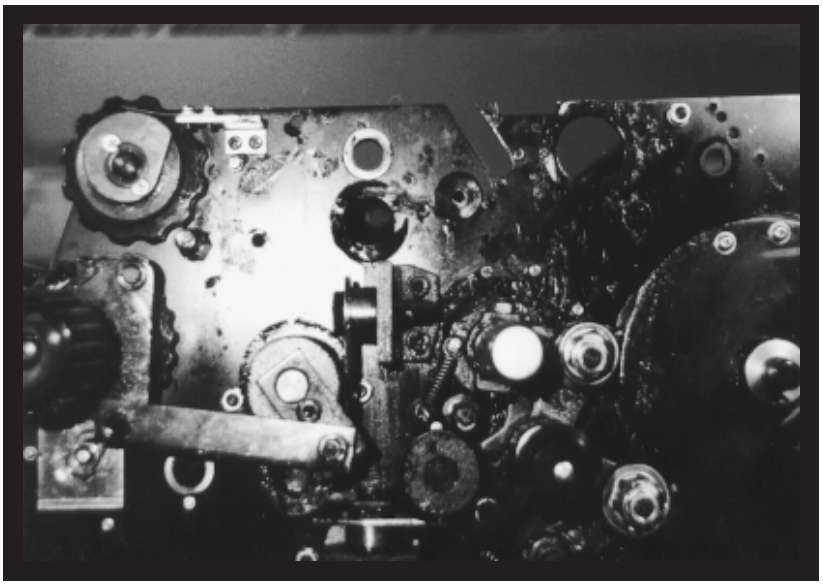

13 Remove mechanism at OPS. The mechanism consists of two triangular pieces, be sure to remove both of them.

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14 Remove handle, including the collar and stud.

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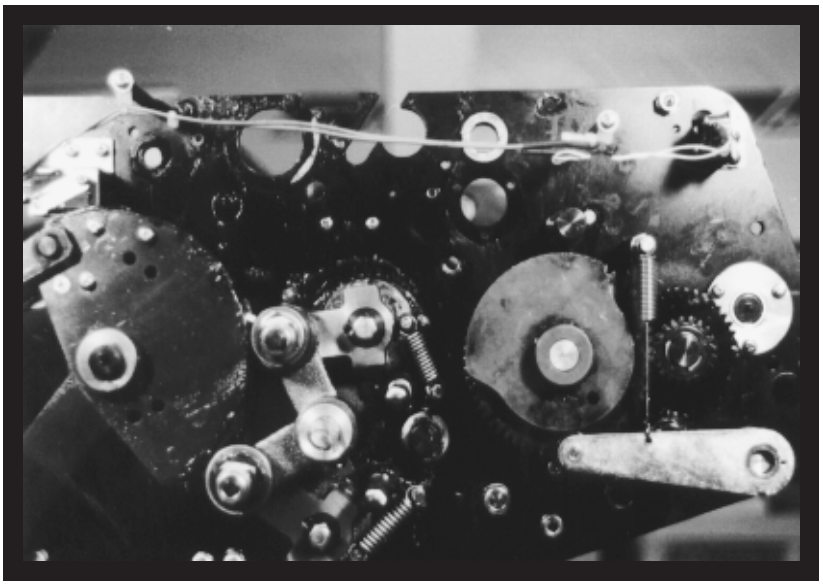
15 The OPS should look like this when it is disassembled.



16 The NOPS should look like this when it is disassembled.

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17 Remove any studs on the inside of the press frame.

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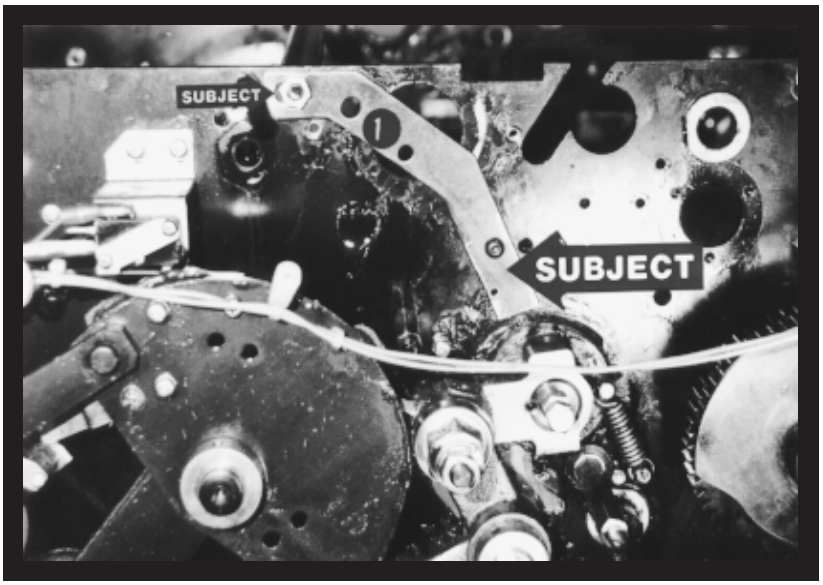
18 Reinstall large gear and cam (see step 7) at NOPS.

YOU ARE NOW READY TO INSTALL CRESTLINE.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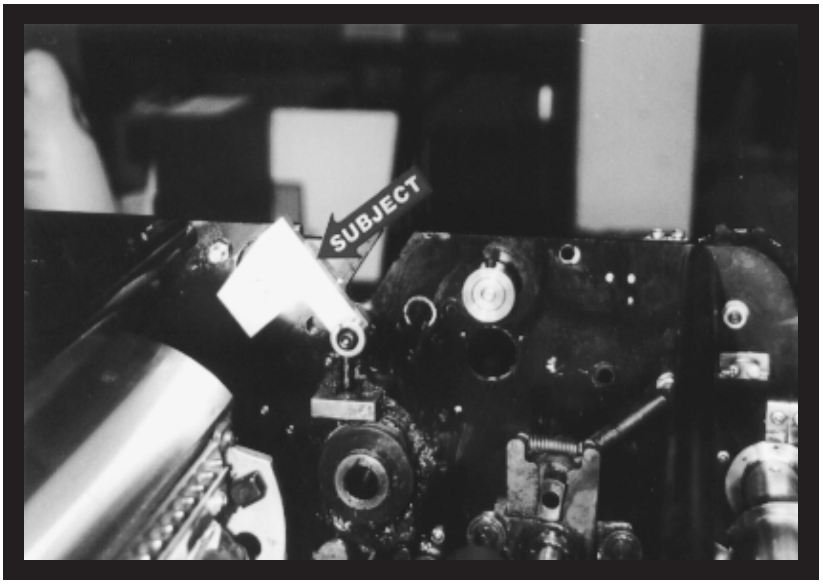
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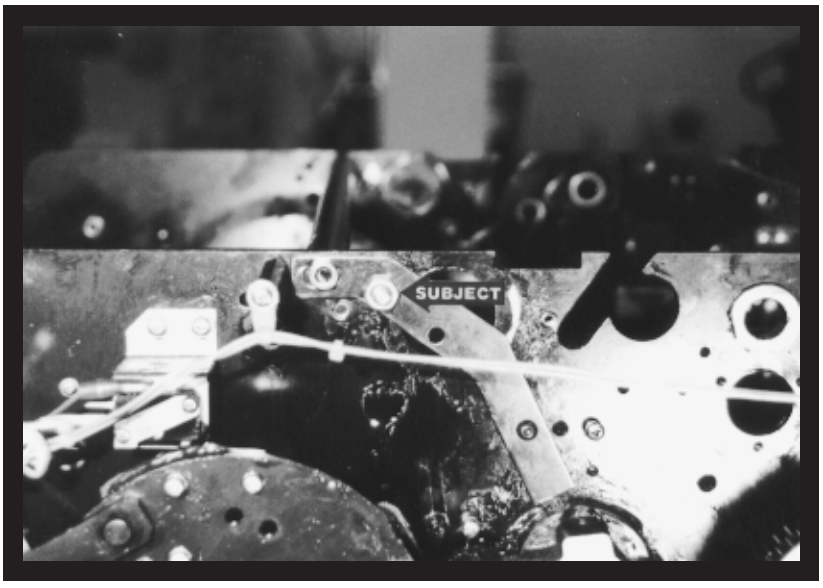
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INSTALLATION

1

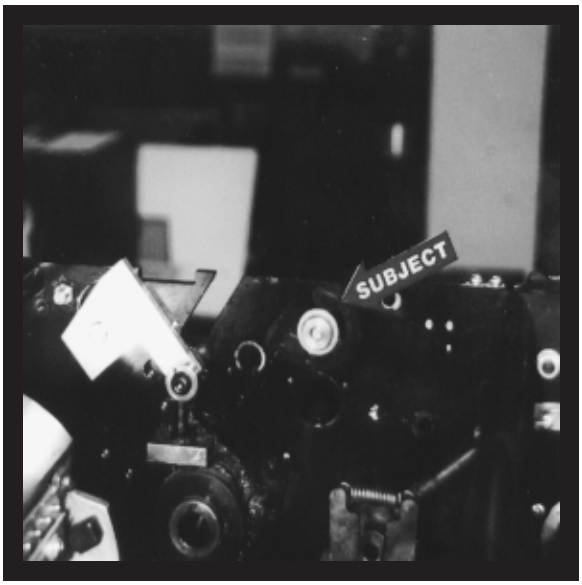
Attach universal mounting brackets (16-10) at OPS & NOPS. Slotted portion goes behind the tie bar nut (small subject arrow). Depending on the age and model of the press, the button head bolt goes through one of the two smaller holes in the bottom of the bracket. (Large subject arrow).

2

Install the lifting mechanism (17-0203) at OPS & NOPS. Mechanism mounts in the hole to the right of the #1 in the picture above, using the provided hex head shoulder bolt (99-41) and nut (05-218).

3

Install spring stud (08-0106 or 08-0107) . Nut (05-214) goes on the outside of the press frame.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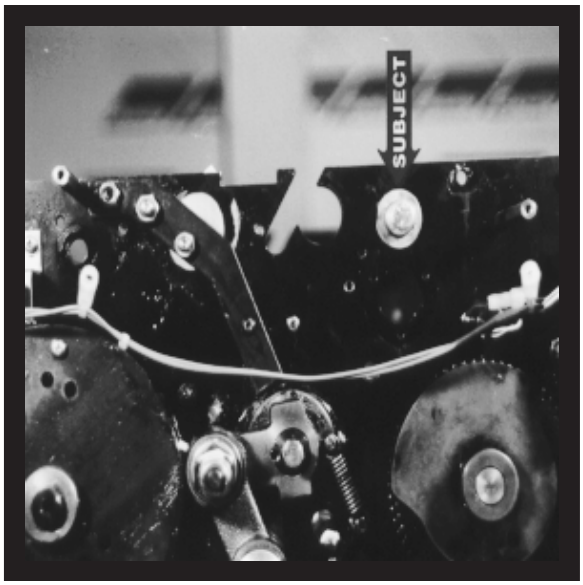
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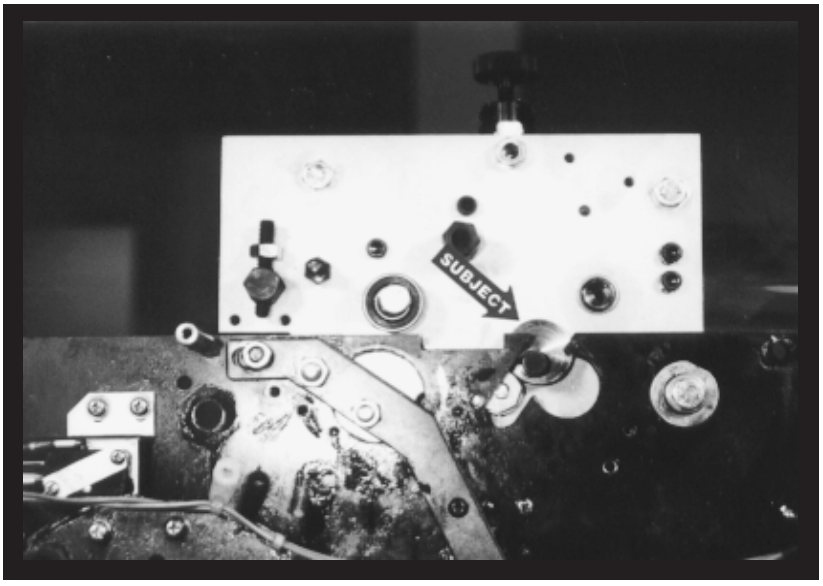
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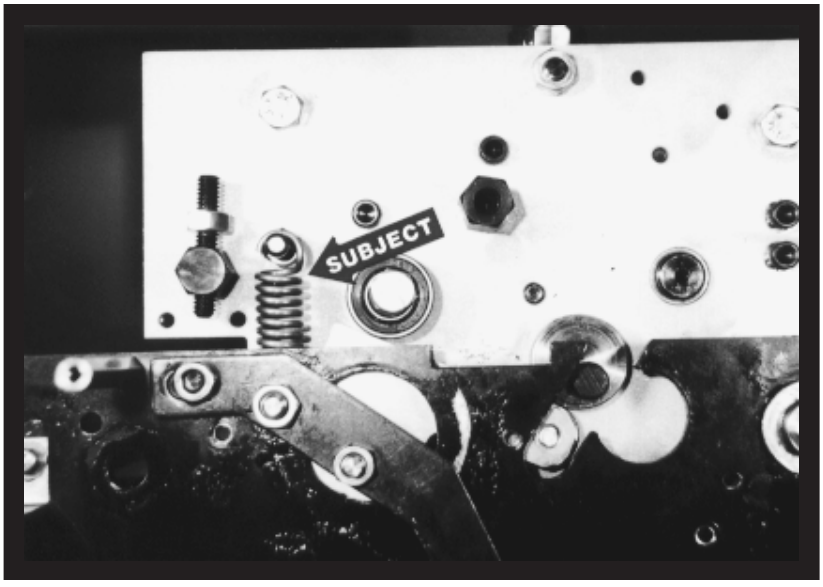
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4 Place mounting housing (13-MM15), set collar (12-5100) (set collar to the inside of the press frame) and bolt in existing bushing on the press frame (subject arrow). Note "E" (05-114150) clip behind collar. The picture on the far right shows the housing and bolt from the outside of the press.

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5 Place dampener between press frames. Thread the mounting bolts in to the holes in the dampener frame near the pan roller until they are snug. Move the set collars (located between press frame and dampener frame) against the press frame and tighten. This prevents side to side movement of the dampener. Note how the eccentric of the lift shaft lays on the lift bearing (subject arrow).

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6 Install springs (09-0101) between dampener and press spring studs at OPS & NOPS.


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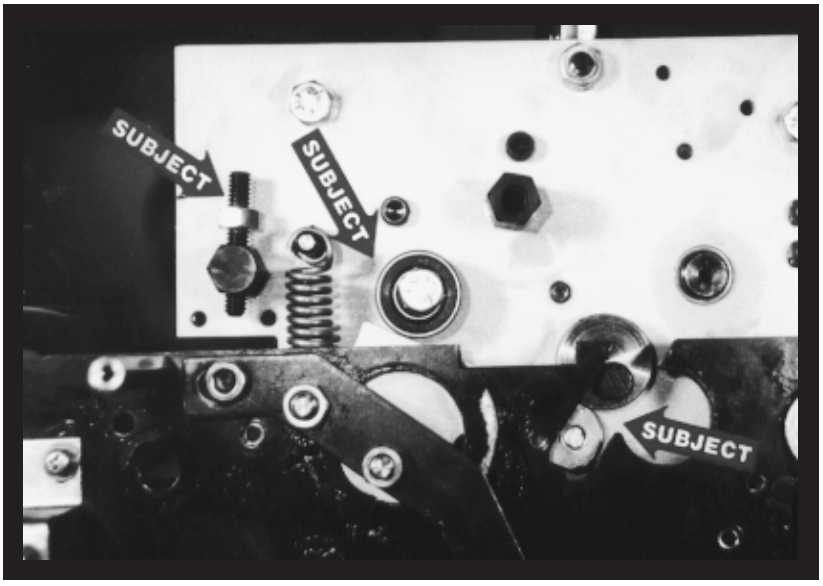
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7 Place the single lever in the "RUN" position and attach the single lever linkage as shown. The set screws on the aluminum housing (right subject arrow) do not fit into any holes. Do not tighten the control block (left arrow) to the lift shaft at this time.

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8 With the single lever in the "RUN" position, make sure the dampener form roller is all the way down on the plate cylinder. If not, turn set screws (left subject arrow) up until they no longer connect tie bar. Next, turn the lift shaft by hand until the eccentrics are just touching the ball bearings on the lift arms (right subject arrow). While holding the lift shaft in this position, rotate the control block (previous photo, left subject arrow) until it is pointing to approximately 5 o'clock and tighten set screws to lift shaft. Now place the single lever in the "OFF" position. The dampener should lift off the plate cylinder approximately .030 - .040, parallel across cylinder. To adjust, turn ball bearing eccentric on dampener frame at OPS & NOPS (middle subject arrow).

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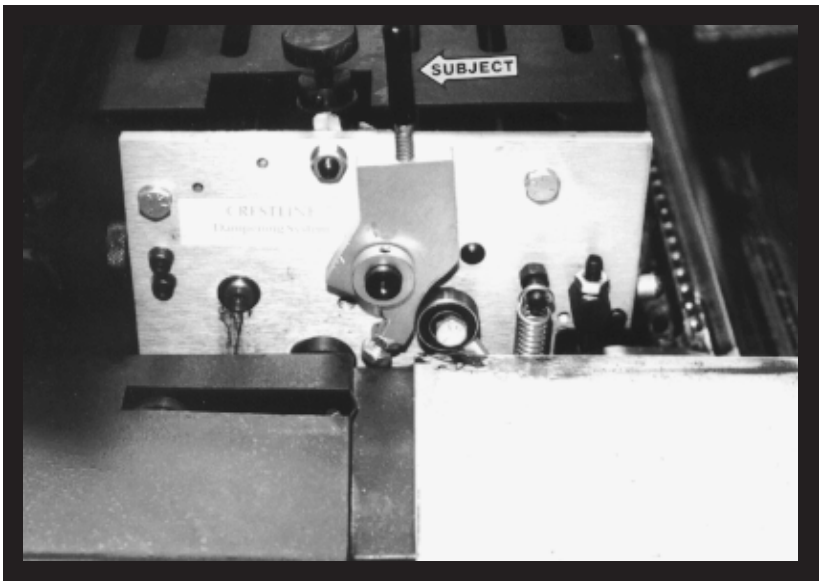
9 With single lever in "OFF" position, (Crestline off plate), flip the lockout arm (upper subject arrow) to the right. Now loosen lock nut on bottom of lockout mechanism and turn the hex head bolt down until it contacts the eccentric cam (lower subject arrow) on the dampener. Now put the single lever to the "RUN" position, and check to see that the dampener does not drop to the plate. Adjust bolt if necessary. This allows you to run the press without the dampener.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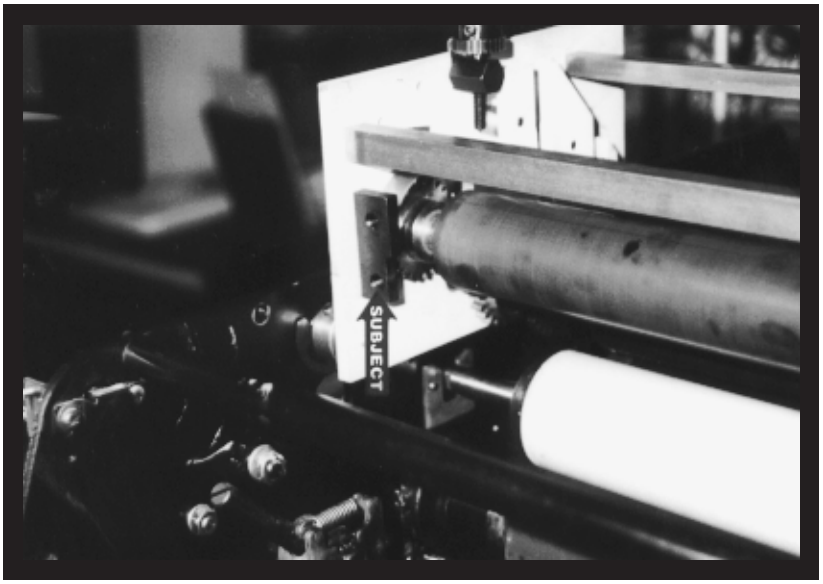
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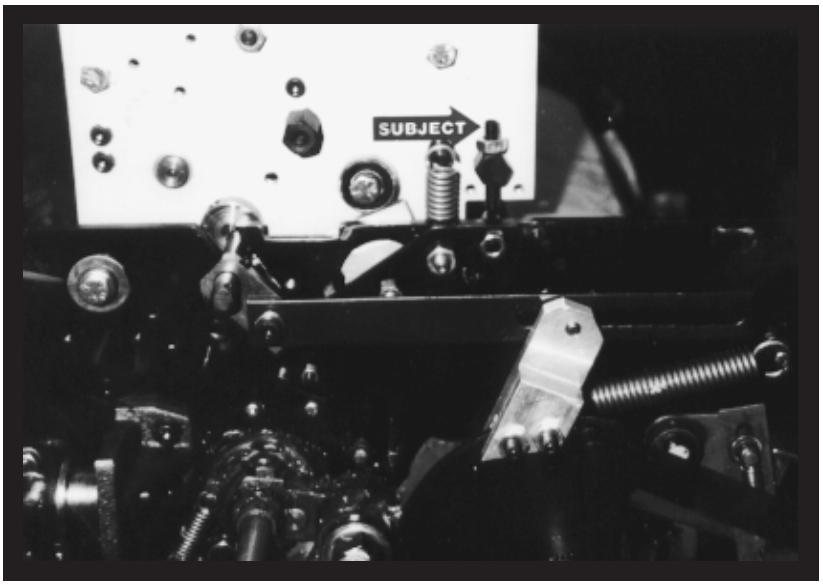
10 Put the single lever back to the "OFF" position and flip the lockout arm back to the left (subject arrow). The dampener should then drop to the plate when you put the single lever back to the "RUN" position.

11 Mount the water pan using the lower hole in the water pan mounting block (subject arrow).

YOU ARE NOW READY TO MAKE FINAL ADJUSTMENTS.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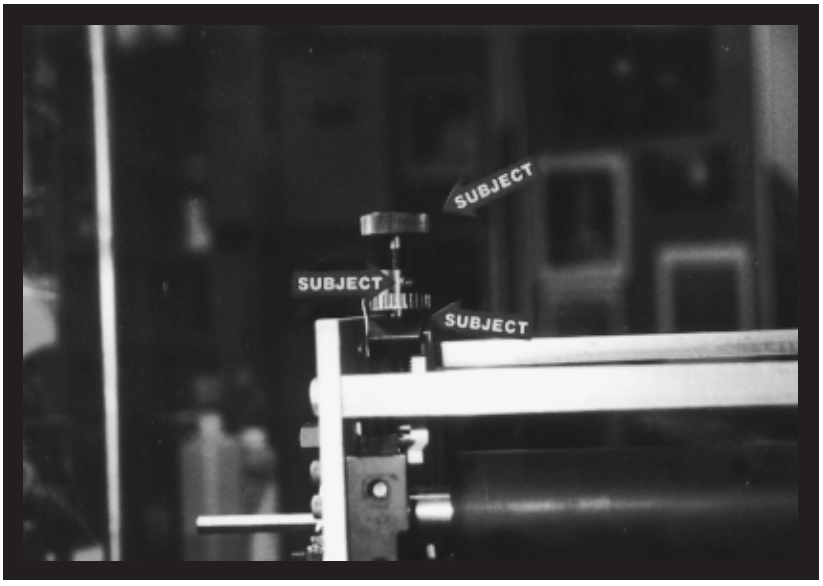
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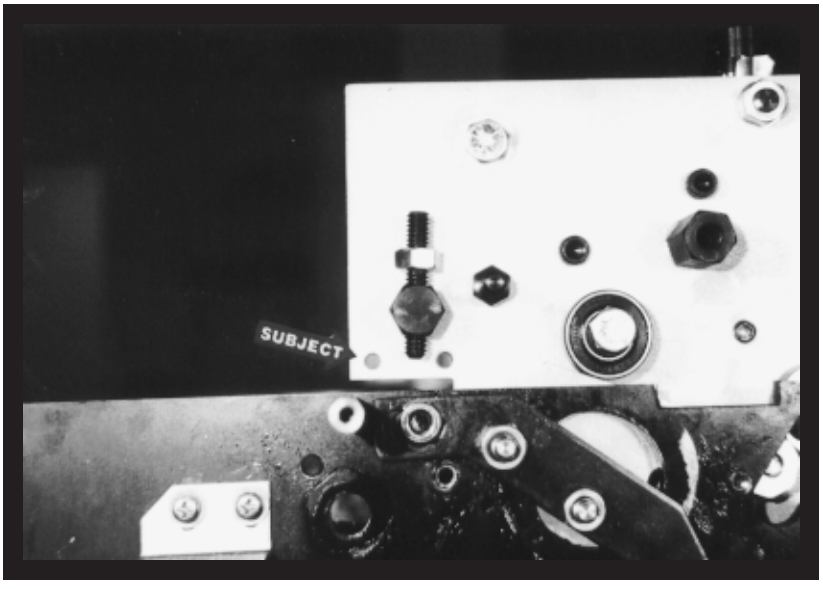
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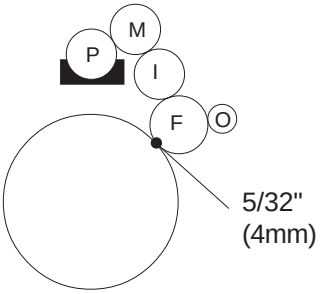
FINAL ADJUSTMENTS

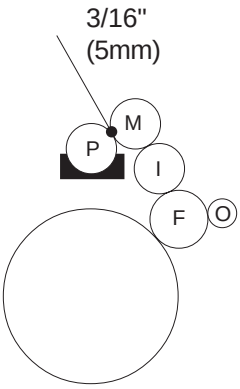
1



FORM ROLLER TO PLATE CYLINDER PRESSURE

Mount a plate on the press. Flip lever to lock out dampener. Dab some ink on the oscillator and turn on the press and allow the ink to smooth out. Turn off the press. Flip lever back to activate position. Lower the dampener to the pate and check the stripe. The proper setting is an even 5/32" (4mm) across the plate. Adjust the stripe by turning the long set screws (subject arrow). Turning the bolts down lifts the dampener and makes a thinner stripe and vice-versa. Adjust it to 5/32" (4mm) and lock the set screws in place with the lock nuts.

2

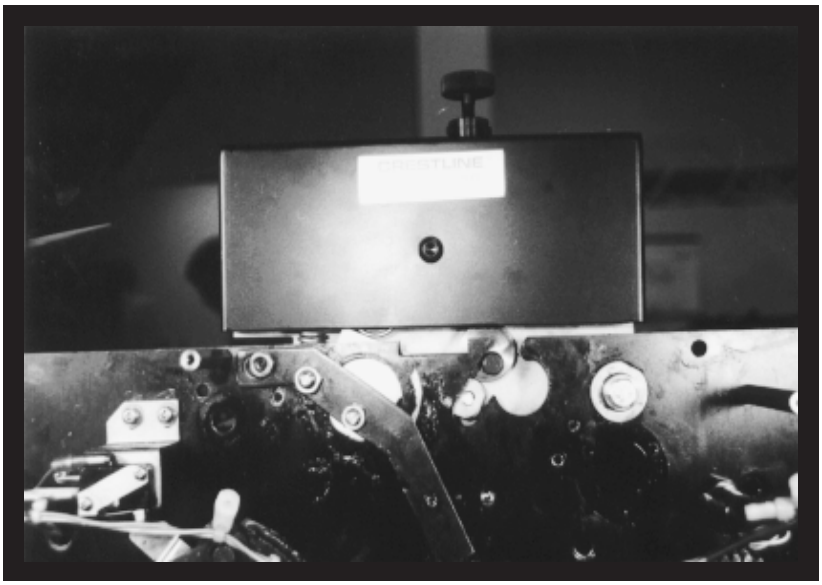


MAXIMUM METERING TO PAN ROLLER PRESSURE

Place the single lever in the "OFF" position. Spin the ratchet gears down until they stop against the cross bar (right subject arrow). Turn the press on and let the press idle for 20 seconds. Check the stripe between the pan and metering rollers by bumping the press forward by hand. It should be 3/16" (5mm). Adjust by turning the knurled knobs (upper subject arrow). Turning the knobs down makes a wider stripe and vice-versa. Once the pan to metering roller has been set at 3/16" (5mm), lock the rachet gear to the knurled knob with the set screws (subject arrows). This sets the minimum amount of water needed to the plate (maximum squeeze).

3

Take the safety cover provided and loosen the bolts in the mounting pins and push pins inward. Place the cover on the press and push pins through the hole in the dampener frame (subject arrow). Center the cover, make sure shoulder pins are against dampener frames and tighten screws. Open and close the cover to check for binding and also proper microswitch activation.



4 Install the dampener side covers as shown.

5

WATER LEVEL IN PAN

Place full water bottle in bracket and adjust bracket so that the water level is approximately half way up the pan. If you run the press and a small water ring runs at each end of the pan roller, the level is sufficiently high.

Reinstall the press covers and levers, once again checking for proper fit and microswitch activation.

YOU ARE NOW READY TO PRINT.

START OF DAY

A. Make sure the oscillator and metering rollers are in place.

B. Spin knurled knobs until the shoulder on the ratchet stops against the 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.

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 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.

WASH UPS DURING THE DAY

1. Remove bottle and drain the excess water from the pan.
2. Mount cleanup mat to the press or if applicable, a wash-up attachment along with a metal plate to act as a bridge between dampener and inker.
3. Turn on the press and squirt a small amount of press wash on the ink and dampener rollers. (Squirt ink rollers only if using a wash-up attachment.)
4. Drop both the dampener and ink forms to the plate. If using an attachment, generally the dampener will pick up enough roller wash off the plate to clean itself, so apply wash directly to the dampener only when necessary.
5. Remove water pan and clean any solution left in it.
6. 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.

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.

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.

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				✔

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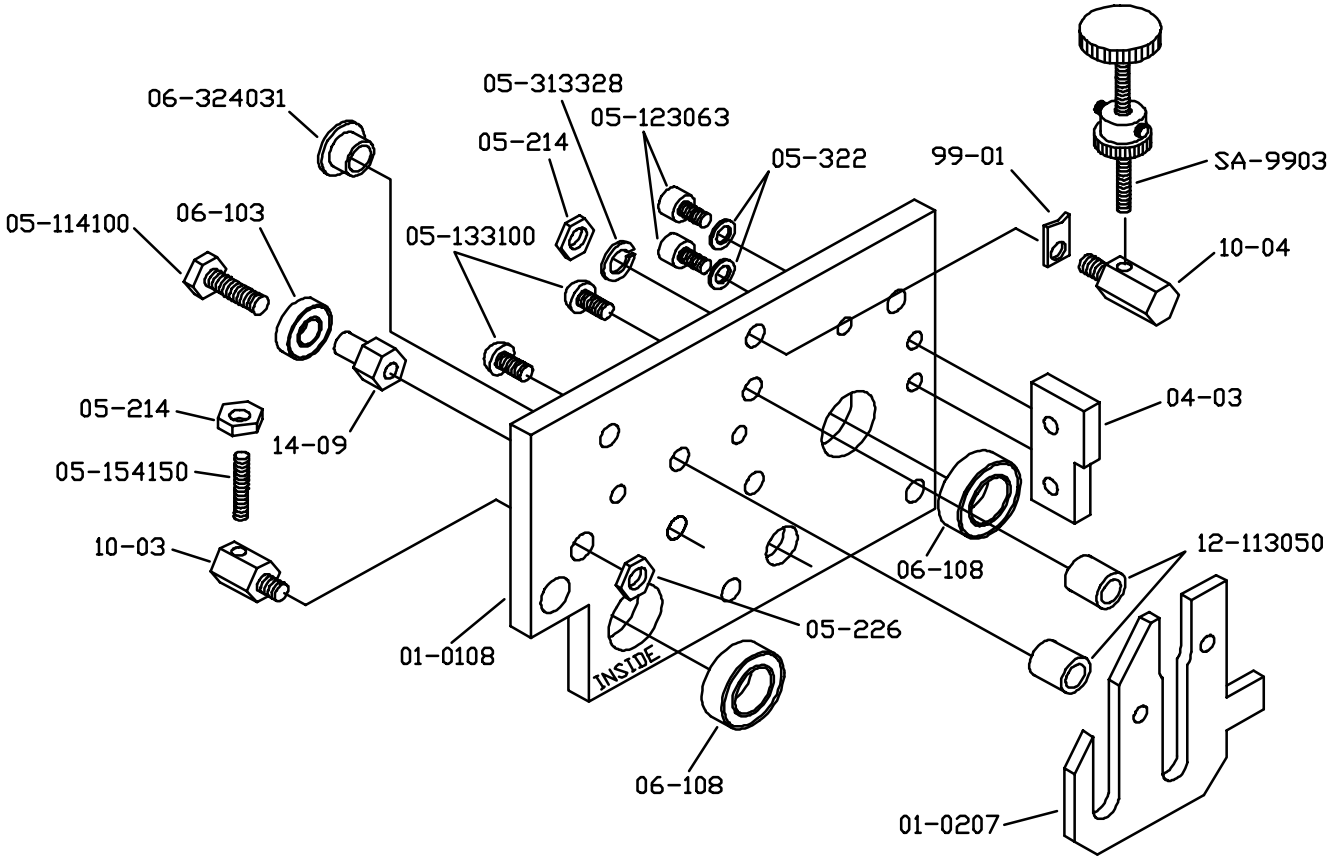

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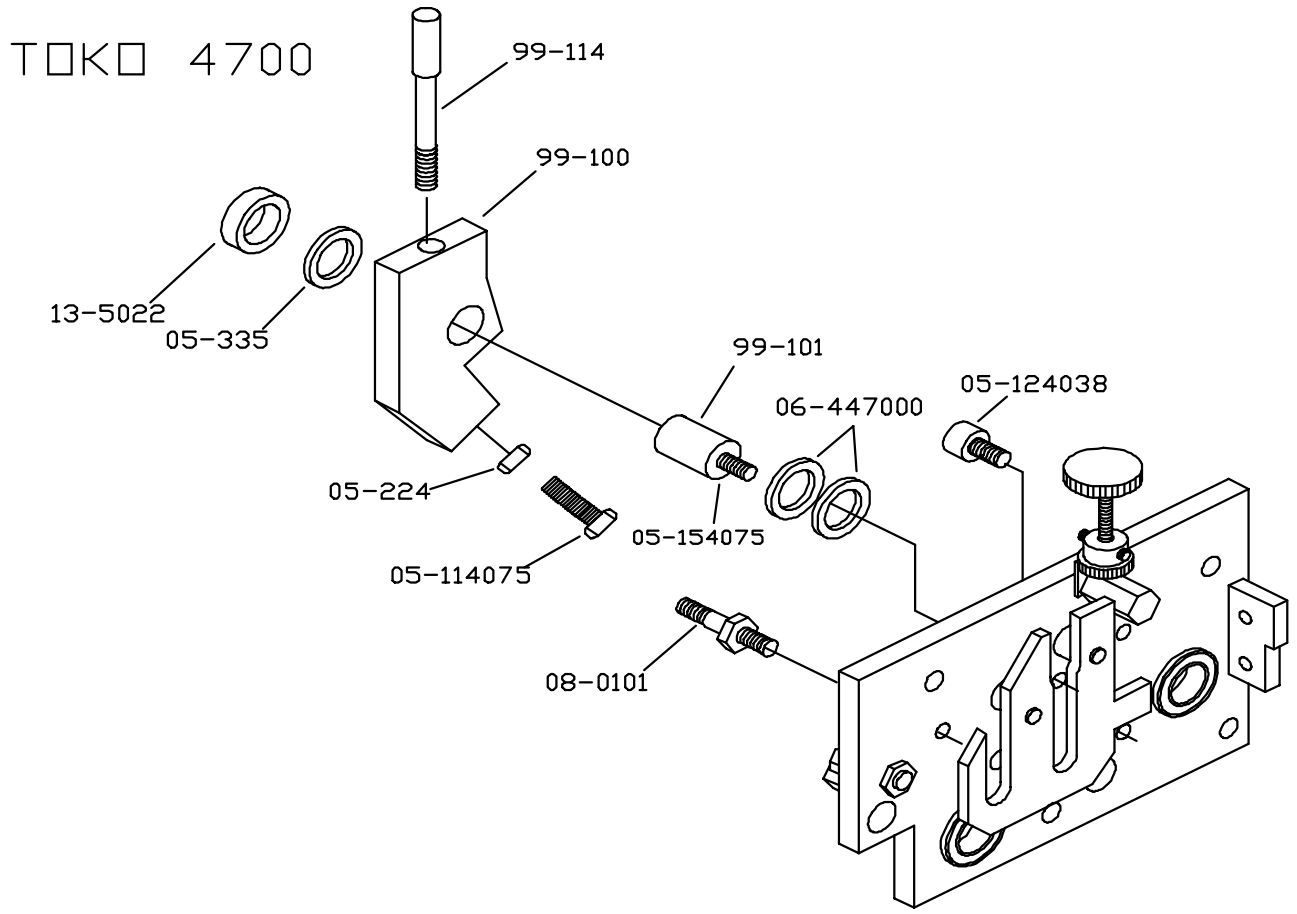

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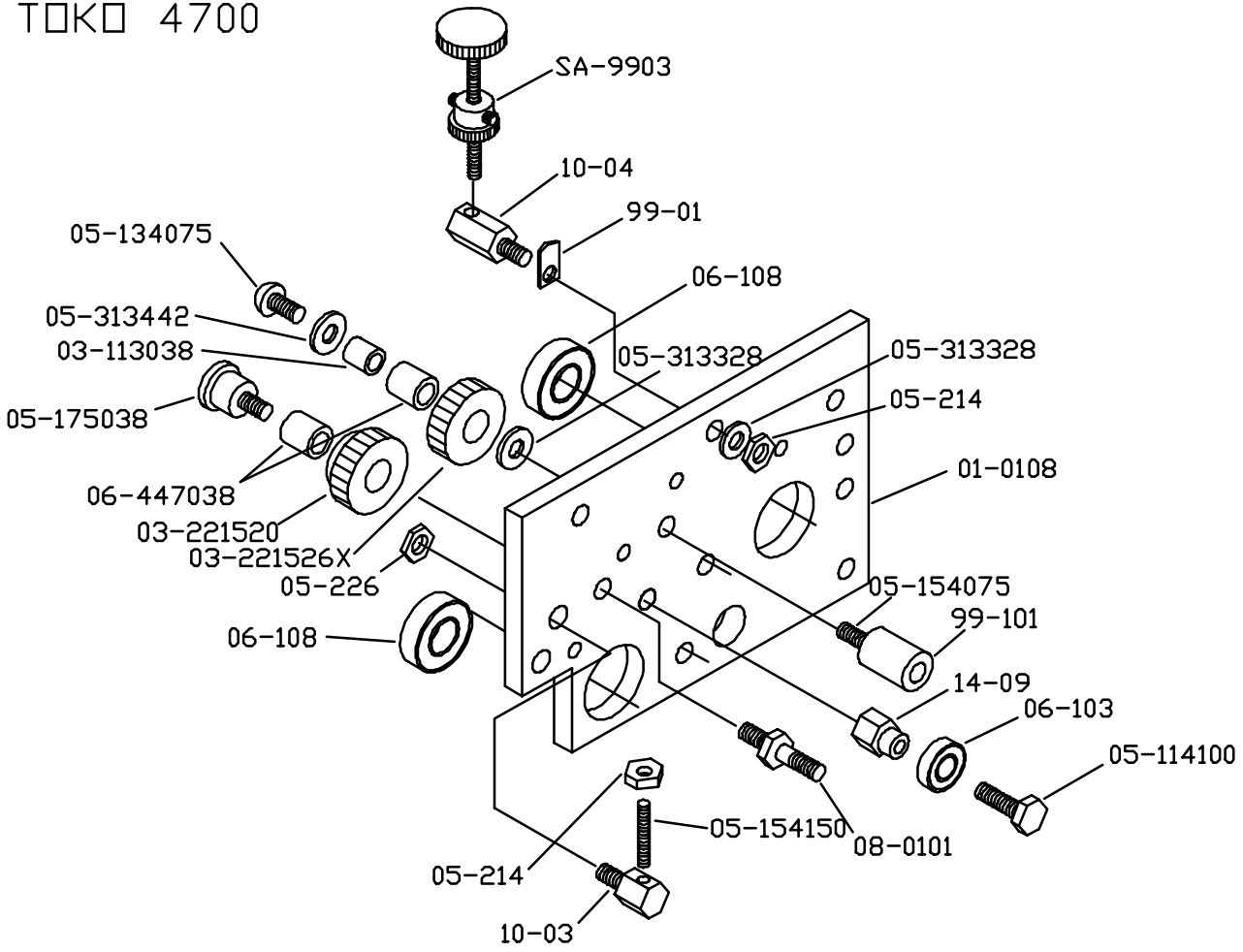

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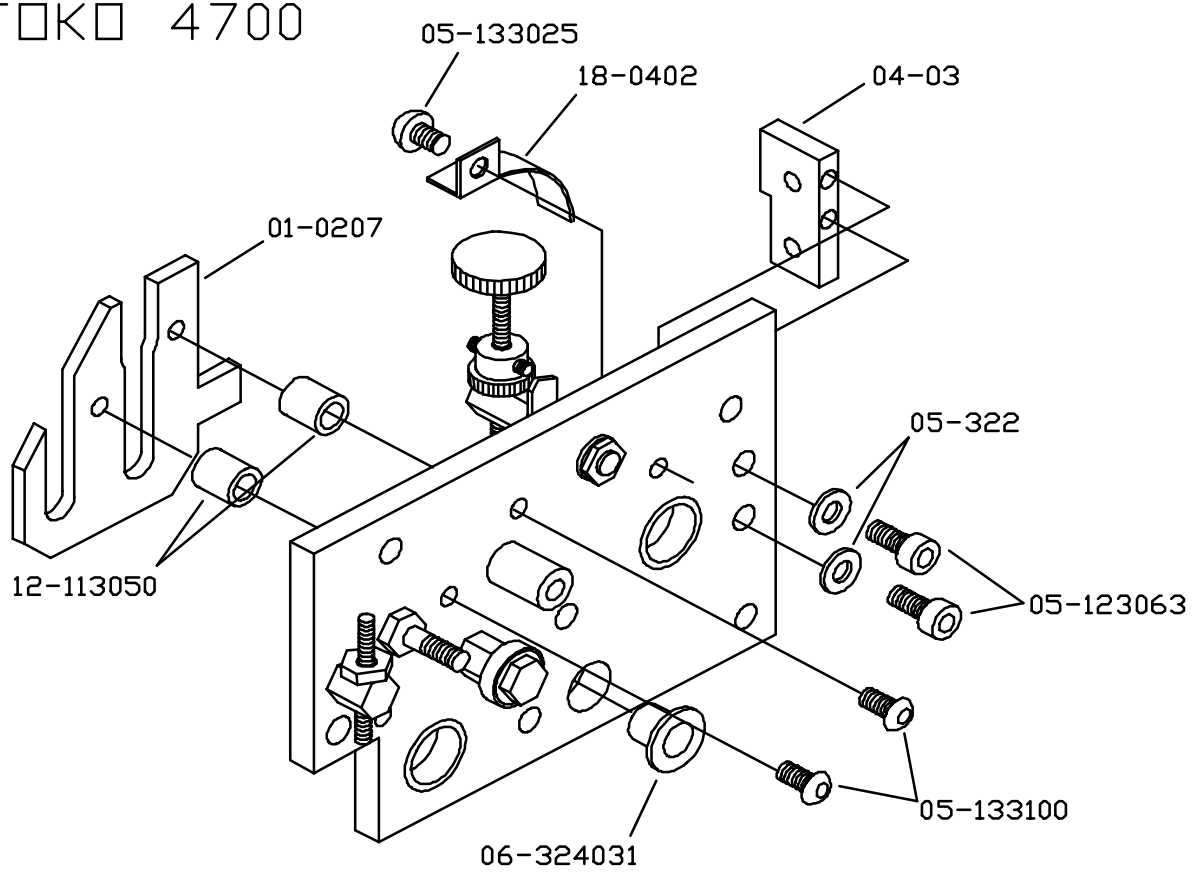

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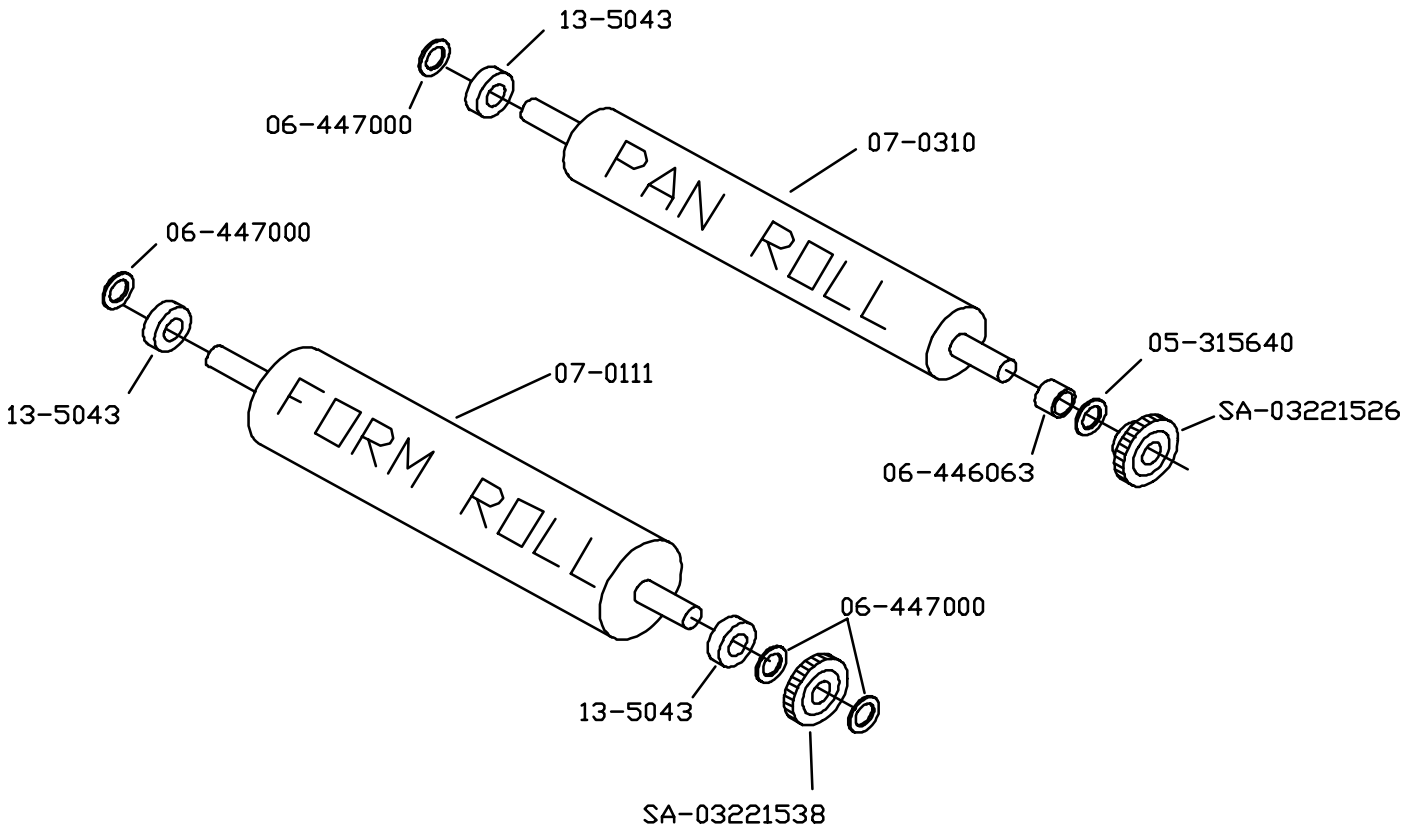

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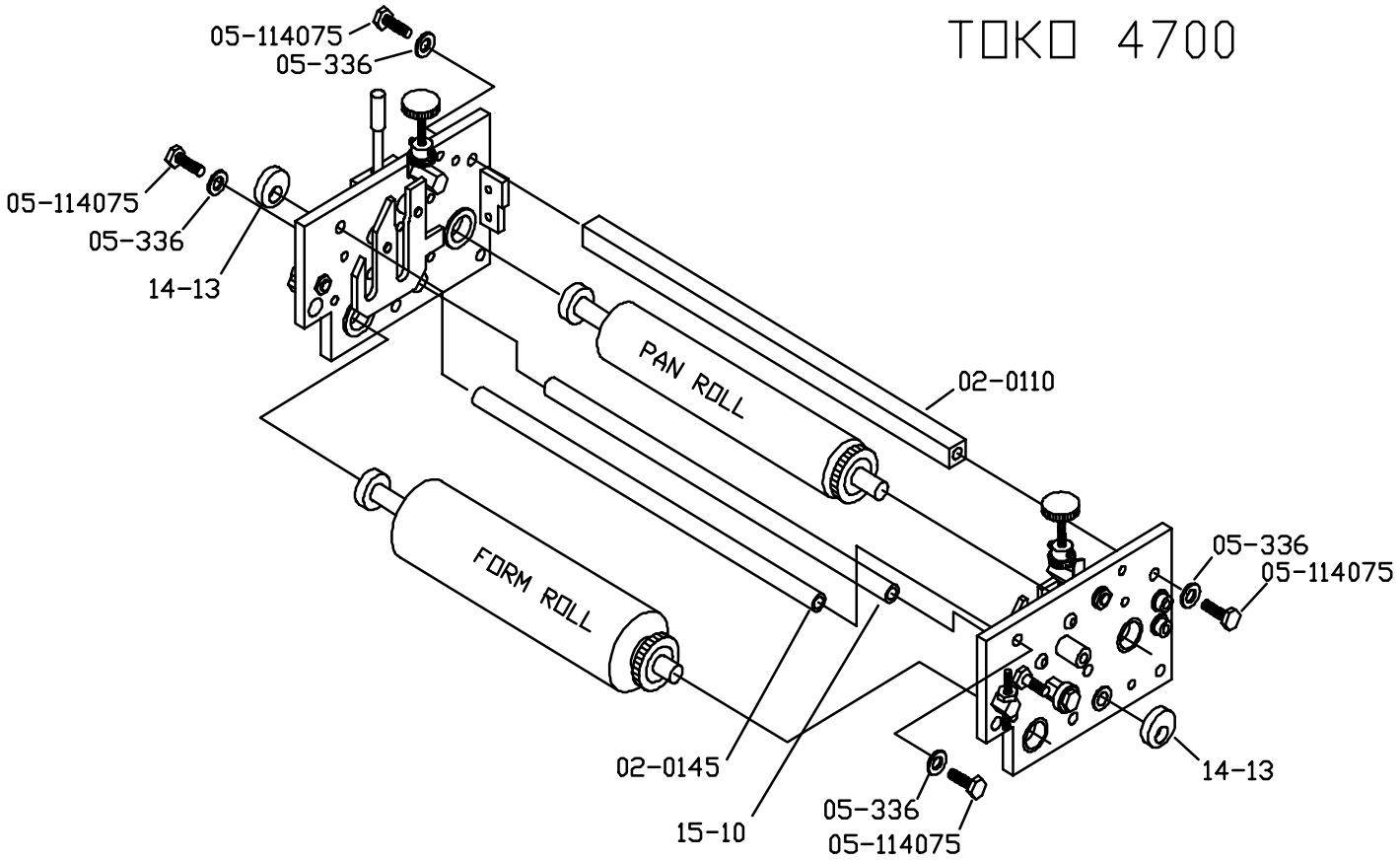

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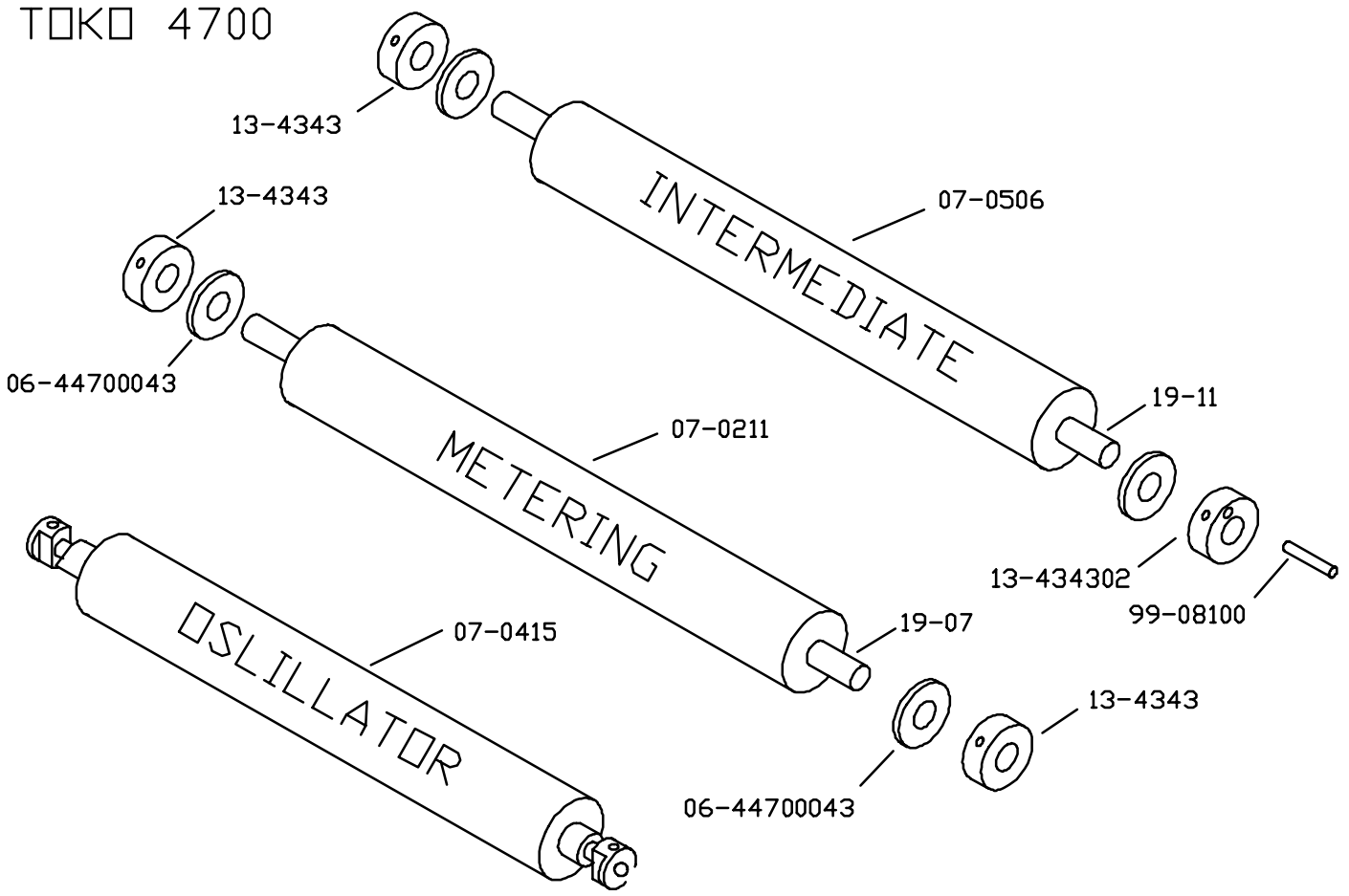

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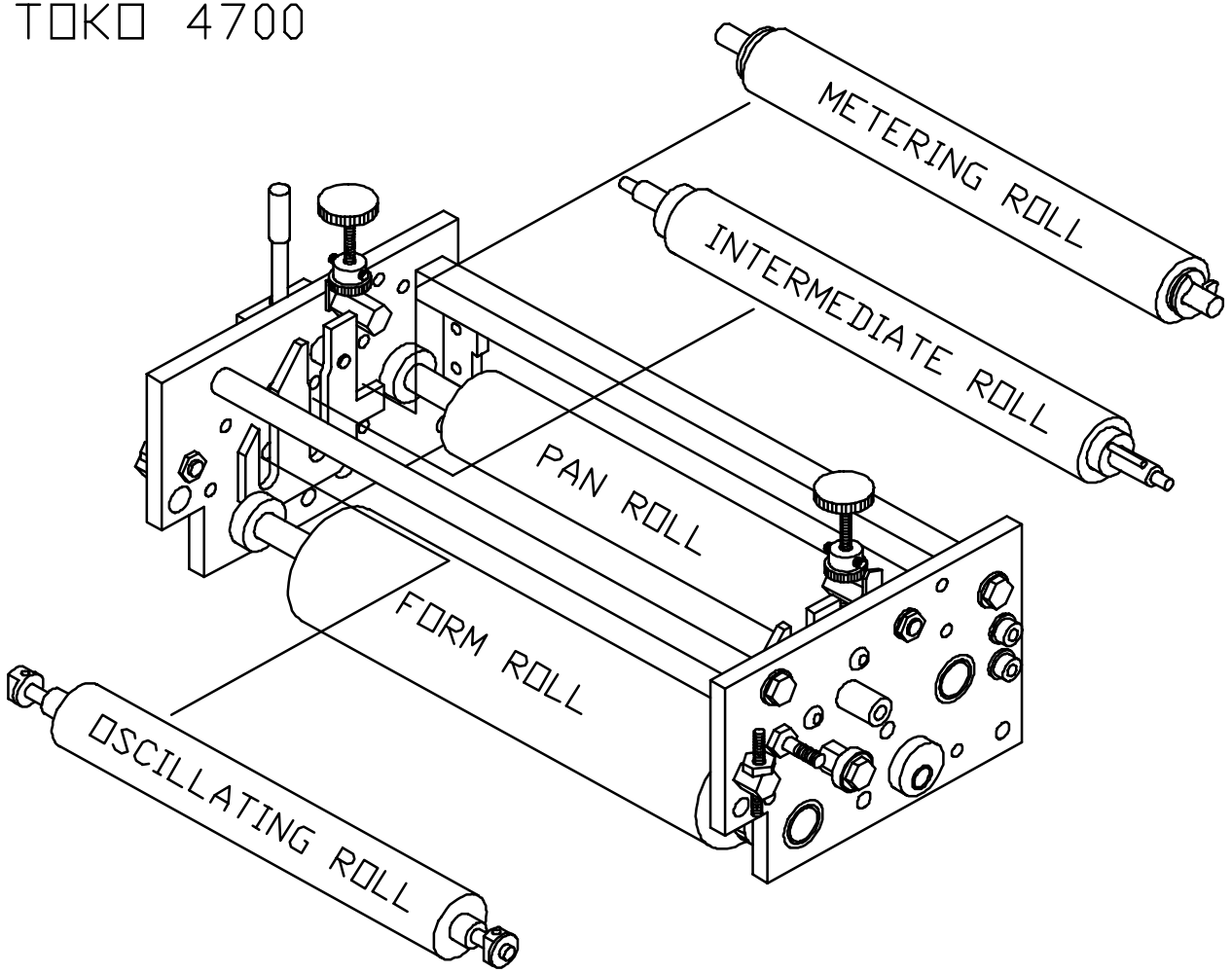

4700C08, 12-29-97

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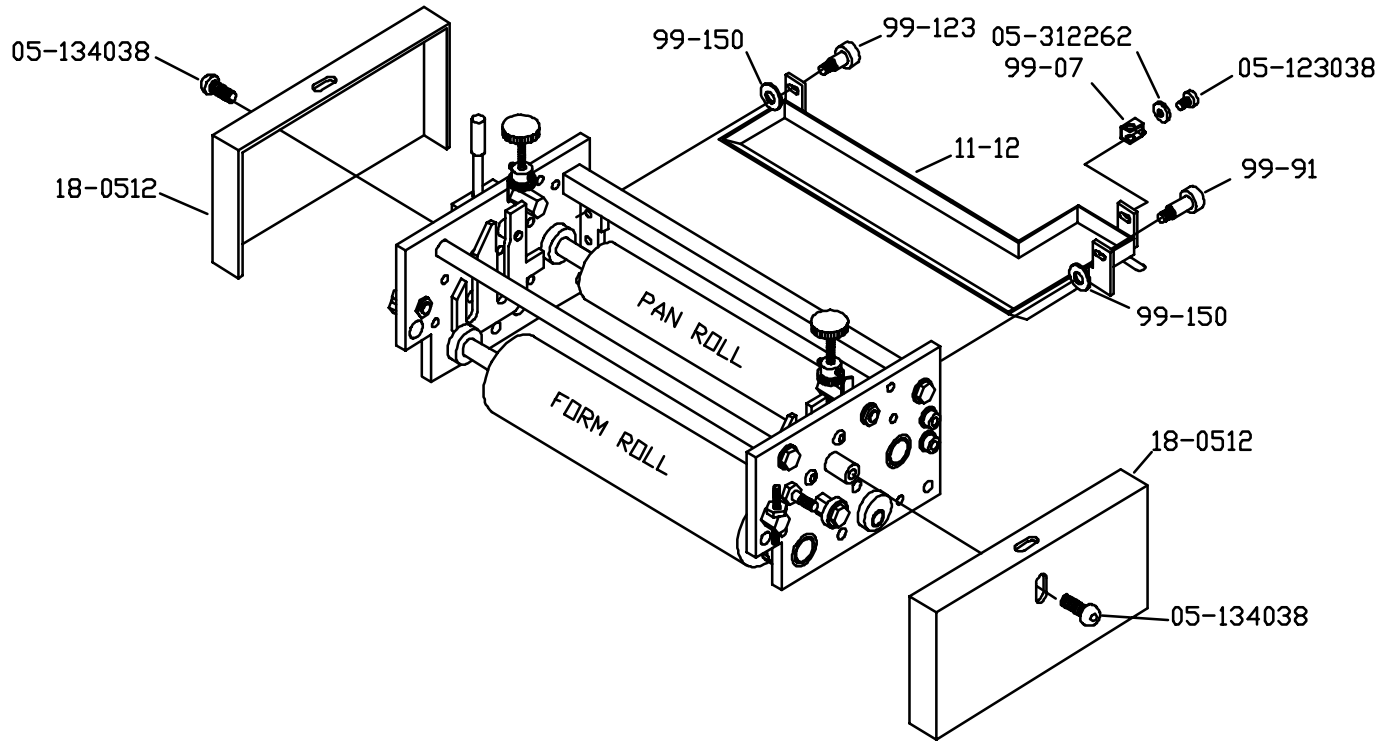

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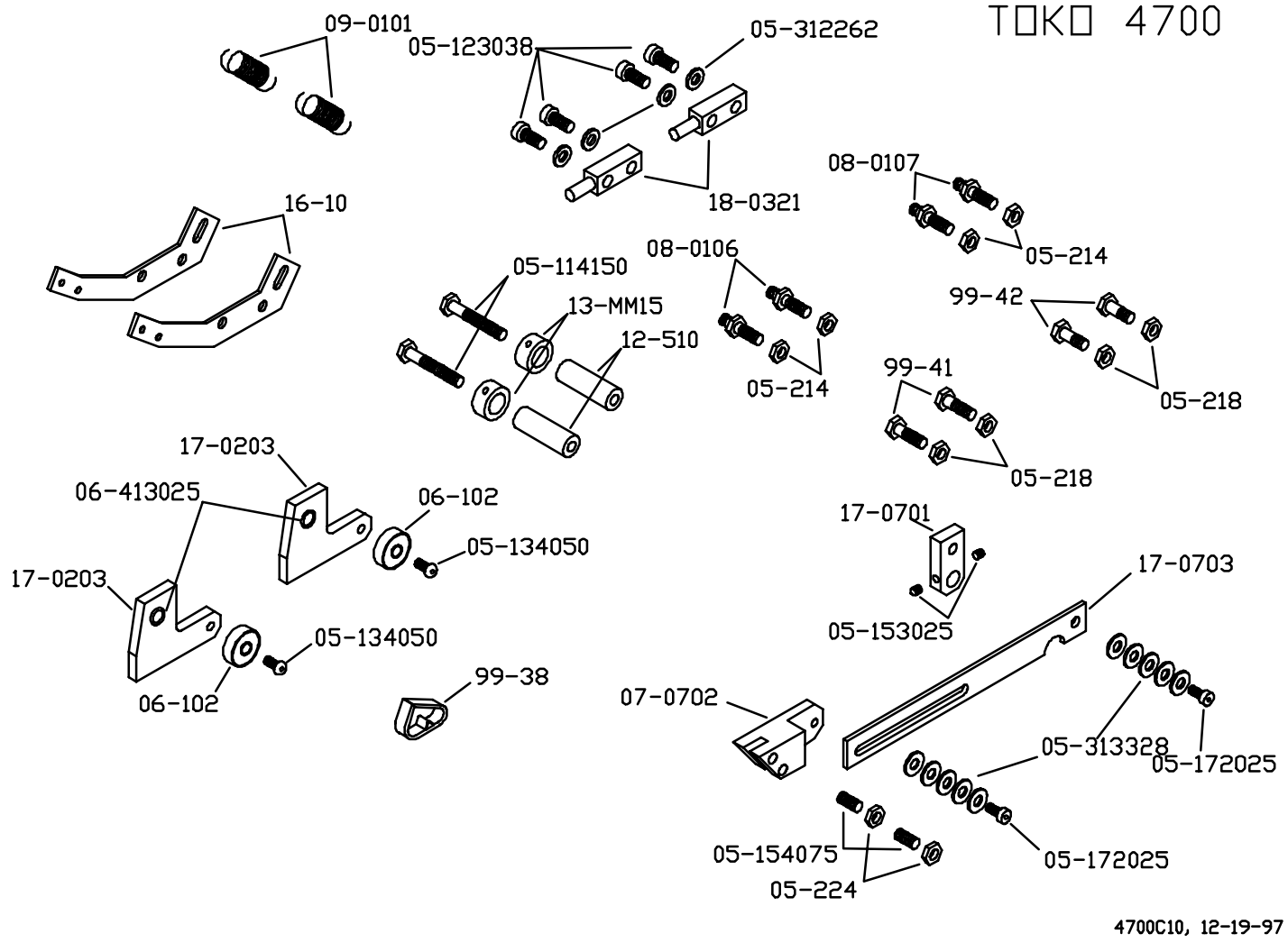
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4700C10, 12-19-97

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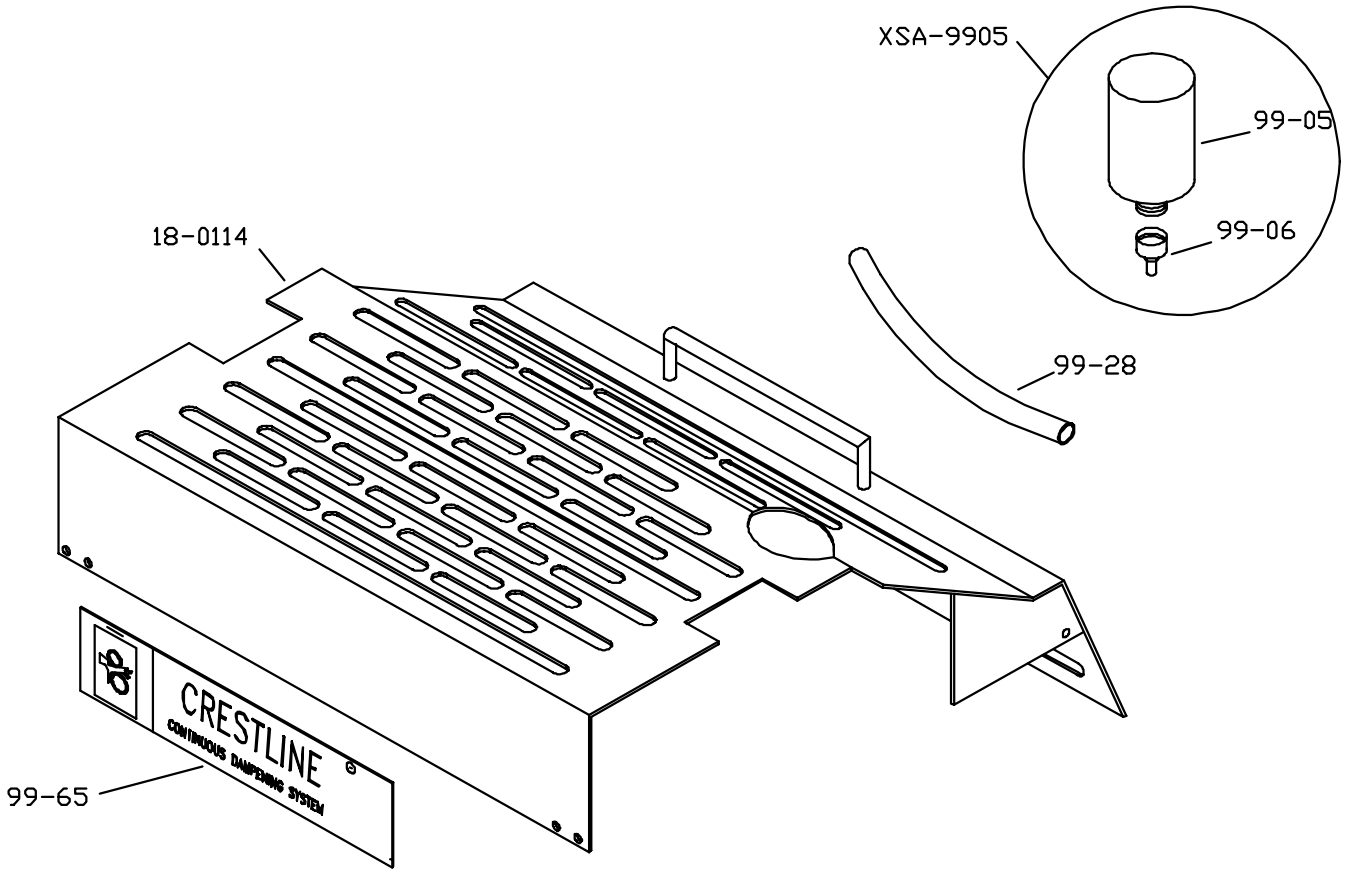

4700C11, 12-29-97

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