Crestline® Dampening System

INSTALLATION INSTRUCTIONS

Townsend T-51® Color Head For A.B. Dick 360

ACCEL®

A Pamarco Technologies Inc. Company

PRINTERS PARTS
800-543-1117 201-935-9595
fax 800-392-4072 201-935-5333
www.ppsnj.com

X88-51
Rev-A
01/2001

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:

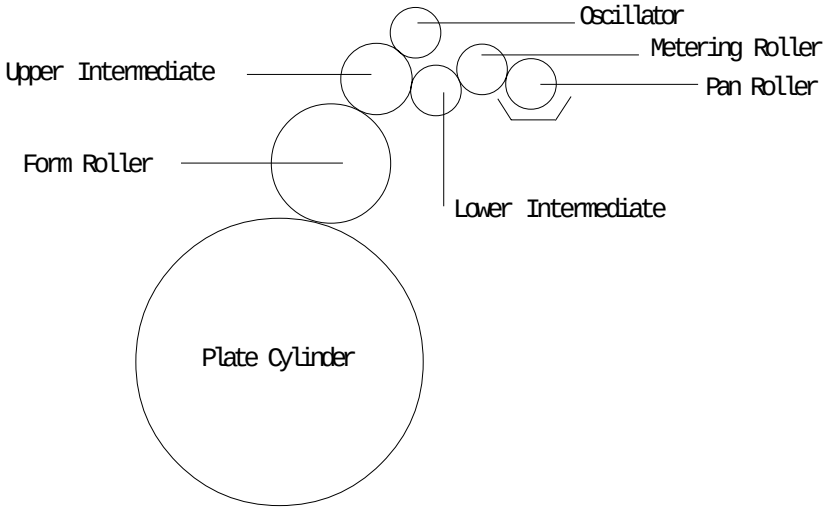
PRINTERS PARTS
800-543-1117 201-935-9595
fax 800-392-4072 201-935-5333
www.ppsnj.com

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.

BASIC CONFIGURATION OF CRESTLINE AND ROLLER PRESSURES



TERMINOLOGY

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

TECHNICAL ASSISTANCE

For technical assistance during the installation, please contact:

ACCEL GRAPHIC SYSTEMS

PHONE (972) 484-6808
TOLL FREE FAX (800) 365-6510
E-MAIL accel@dallas.net

PRINTERS PARTS
800-543-1117 201-935-9595
fax 800-392-4072 201-935-5333
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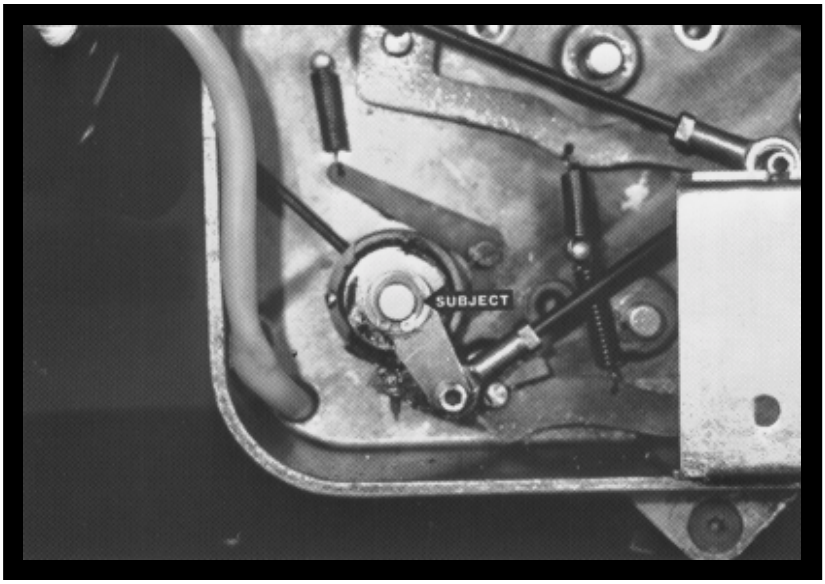
GENERAL INFORMATION

REQUIRED TOOLS FOR REMOVAL OF OLD DAMPENER AND INSTALLATION OF CRESTLINE®

1. Slotted Screwdriver
2. 7/16" Open End Wrench
3. Snap Ring Tool
4. 1/8" Allen Wrench
5. 5/32" Allen Wrench
6. 9/64" Allen Wrench
7. 3/16" Allen Wrench
8. 3/32" Allen Wrench
9. Hammer

GENERAL INFORMATION

The remainder of this installation manual is divided into 6 major sections. They are: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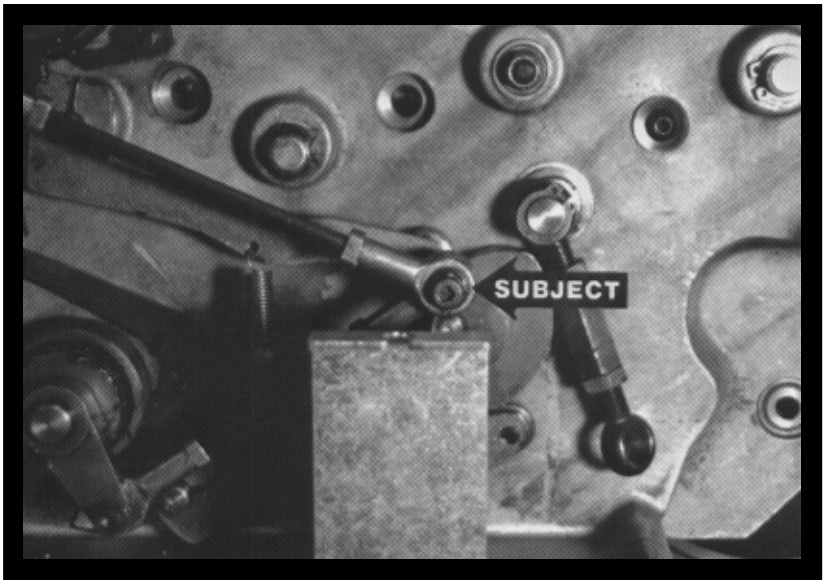

SUBJECT

DISASSEMBLY

1

Remove water form, plastic oscillator and water ductor from T-head. Remove side covers and both frames. Disconnect water hose and remove water pan.

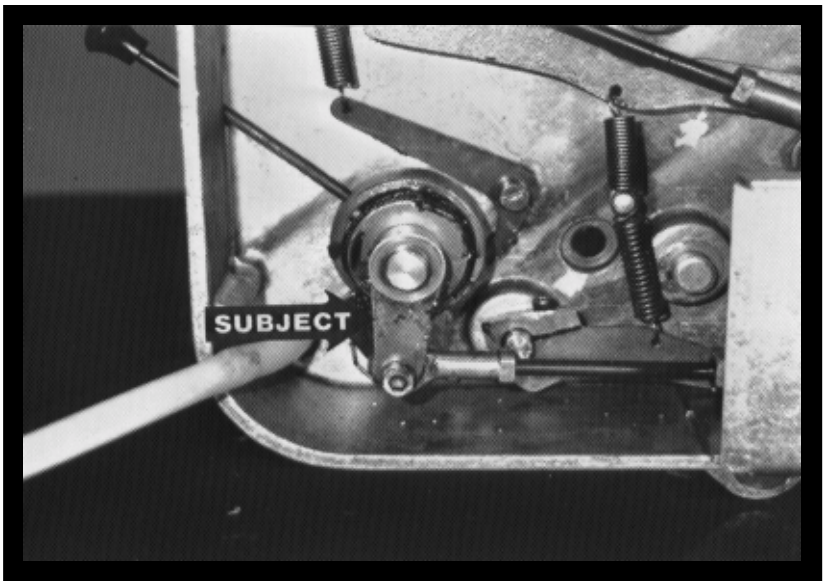
2

Remove water filler assembly and save for reinstallation. Remove snap ring from pan roller ratchet assembly (subject arrow).

3

Remove water pan roller connecting link by removing 2 allen head cap screws (subject arrow). Reconnect ink fountain roller link in original position. Use spacer provided to take the place of the water pan roller link removed in previous step.

NOTE: It is possible to position ink fountain roller link in the wrong position when reconnecting. Please observe photo for proper connection.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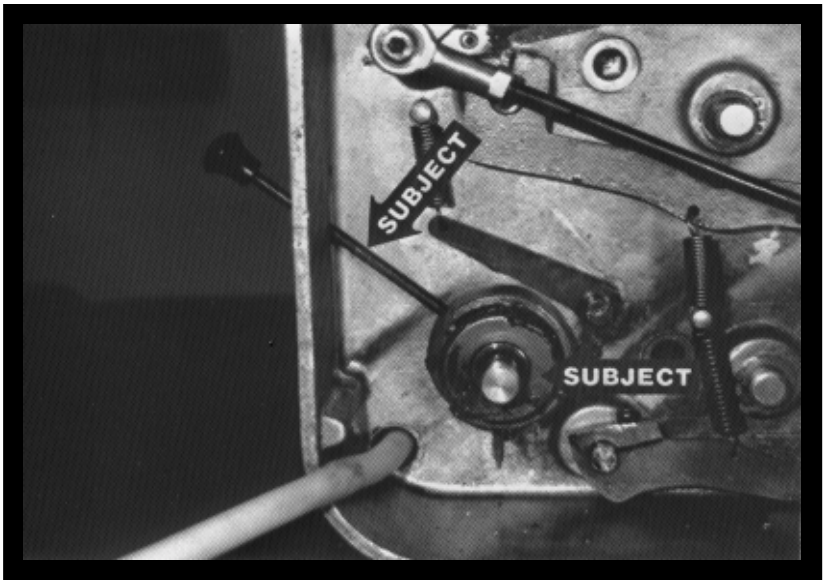
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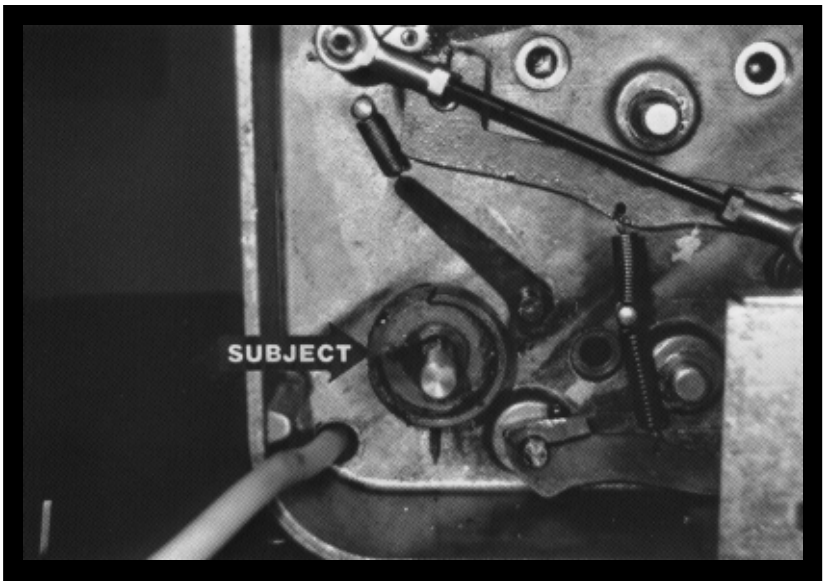
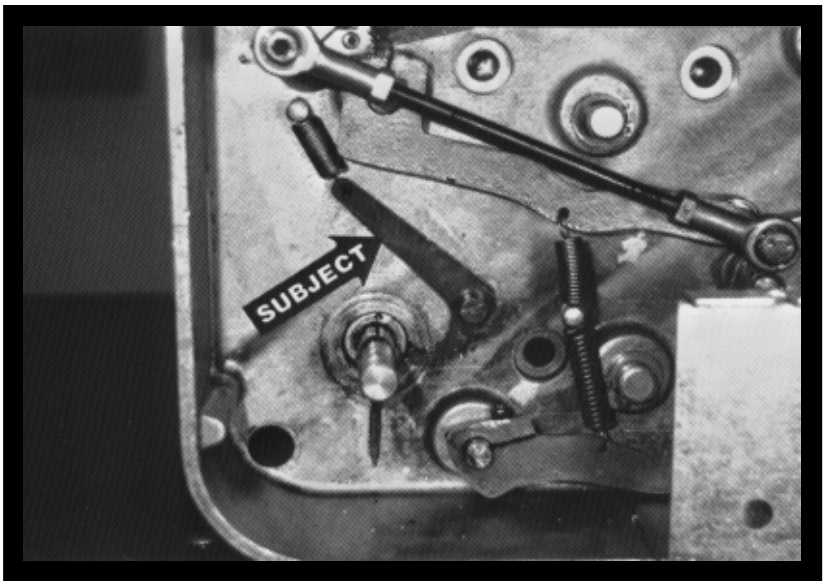

SUBJECT

4 Remove arm on water pan roller mechanism (subject arrow).

5 Unthread water adjustment handle by unscrewing (upper subject arrow). Remove pan roller ratchet wheel by positioning the wheel to access the set screw from underneath (lower subject arrow).

6 Pull remainder of ratchet assembly off from the shaft of the pan roller (subject arrow).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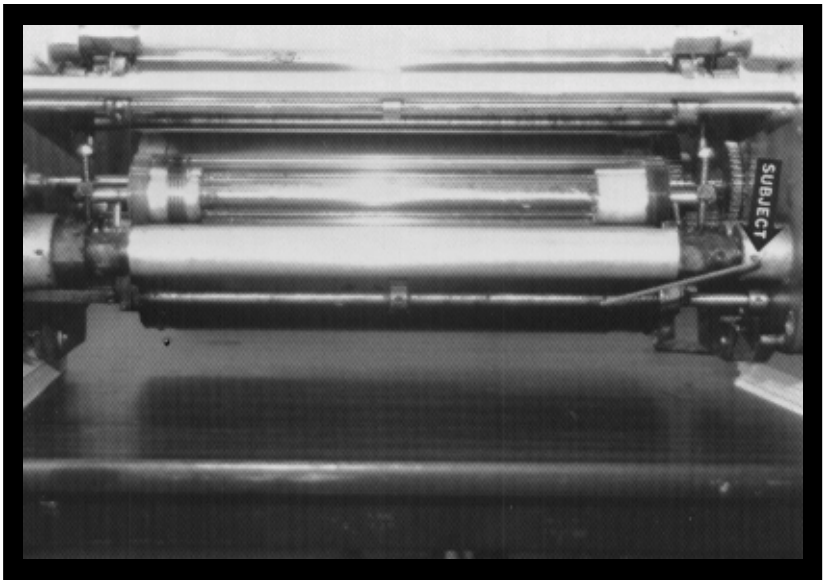
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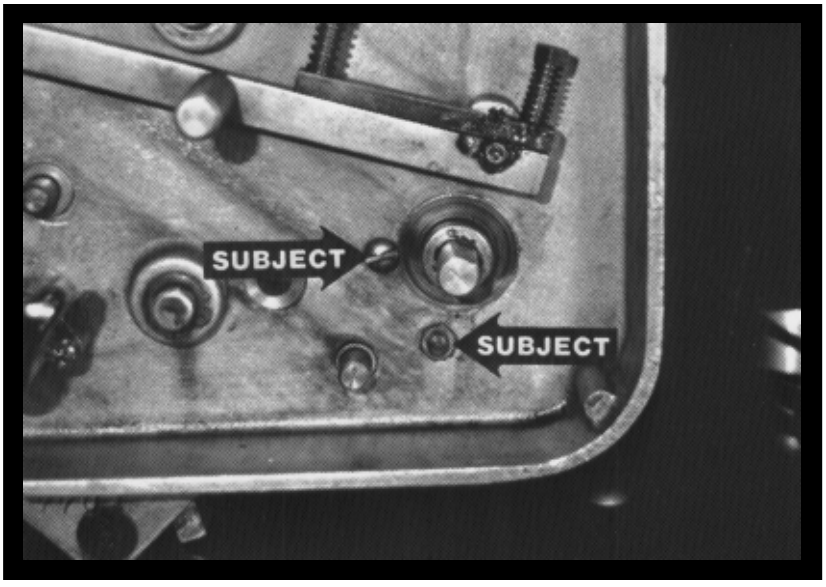
SUBJECT
SUBJECT

7 Remove spring loaded pawl (subject arrow) from T-Head frame.

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8 Loosen set screw holding water pan roller at NOPS. (subject arrow). Do not remove set screw.

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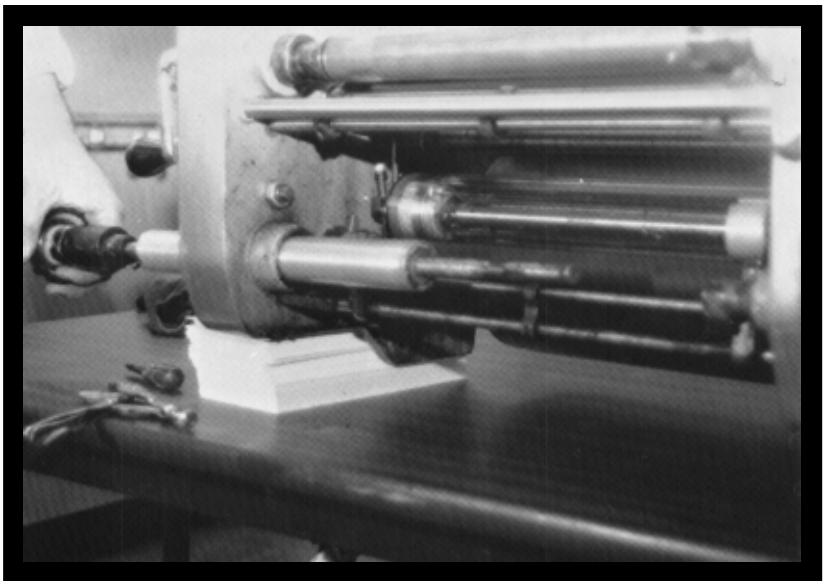
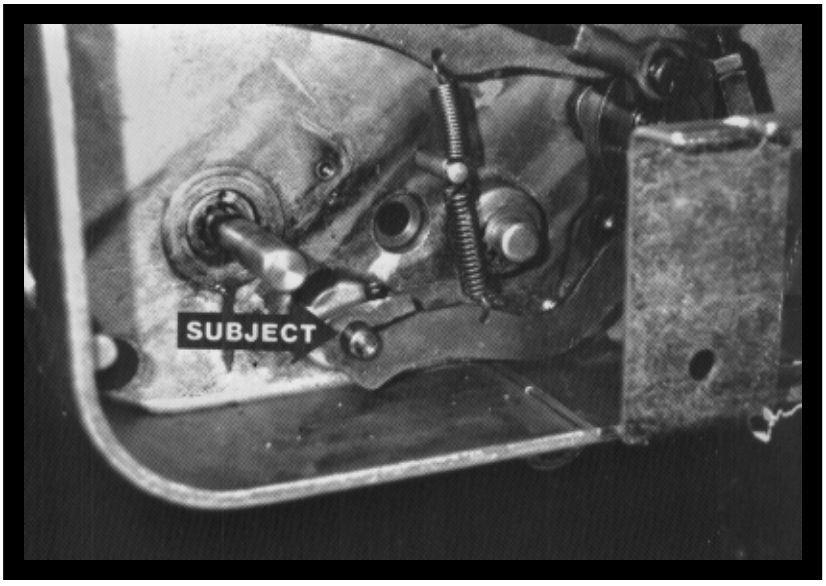
9 Remove nut and screw at OPS (subject arrows).

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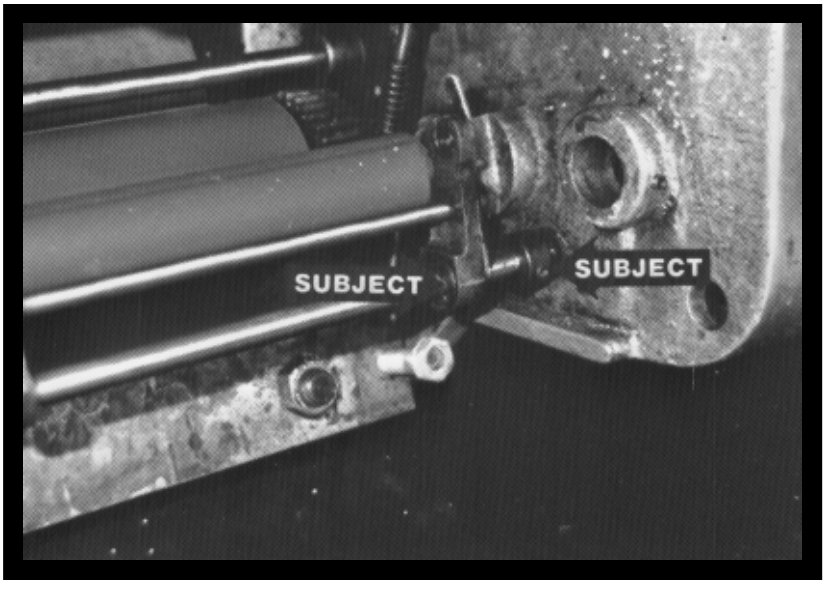
SUBJECT
SUBJECT

10 Remove pan roller assembly by pulling out from operator side. After pan roller bushing are removed, thoroughly clean bushing hole and surrounding areas of the side frame castings.

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11 Remove spring (subject arrow) and loosen cap head allen screw enough to remove arm from water ductor shaft.

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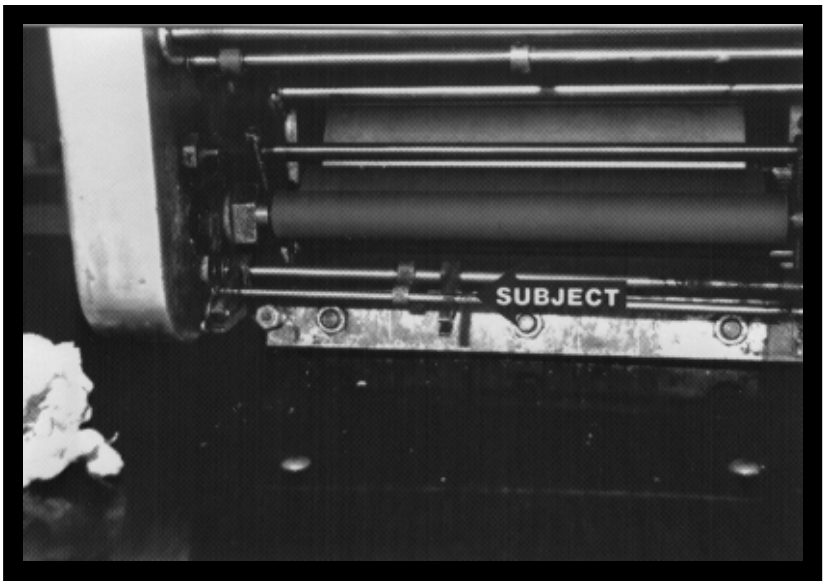
12 Remove snap ring (subject arrow) at OPS & NOPS. Loosen set collar on ductor shaft at NOPS.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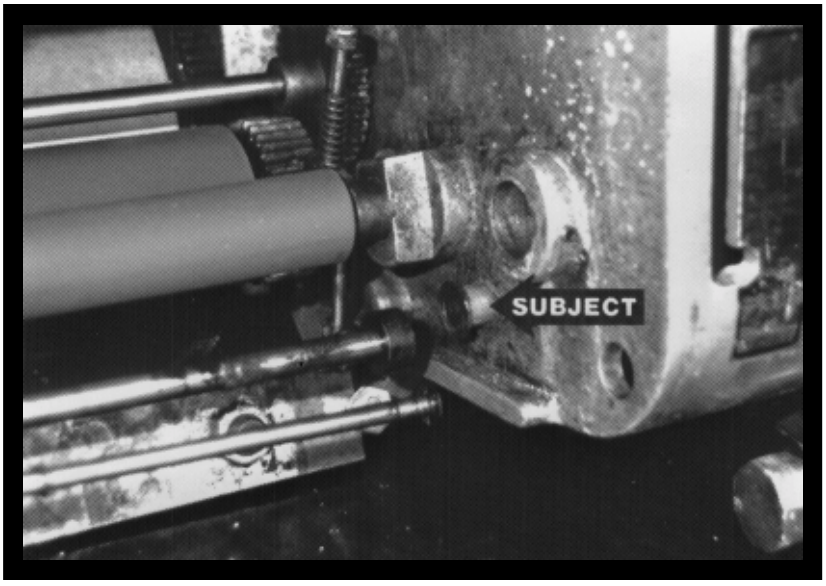
SUBJECT

13 Shift brass bracket from NOPS (subject arrow) towards the OPS as shown.

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14 Remove water ductor bushing on NOPS using punch provided (subject arrow). Punch the bushing from the outside in.

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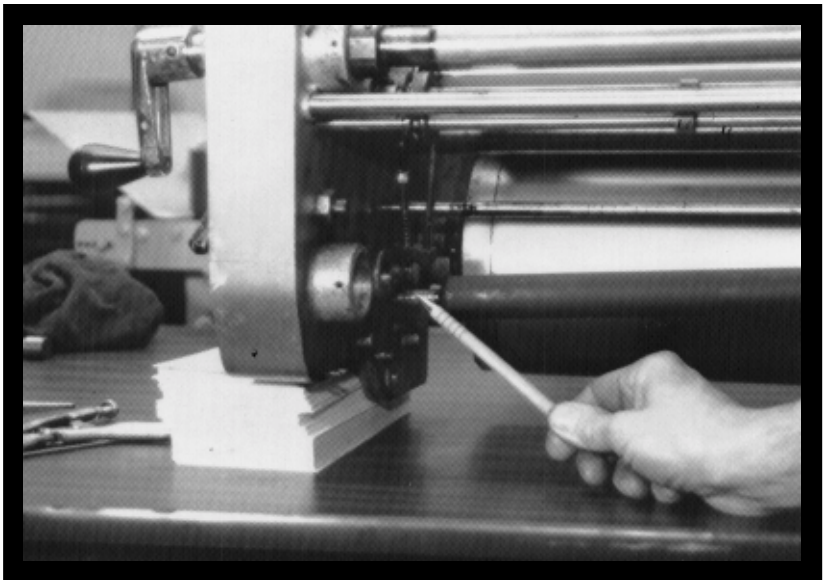
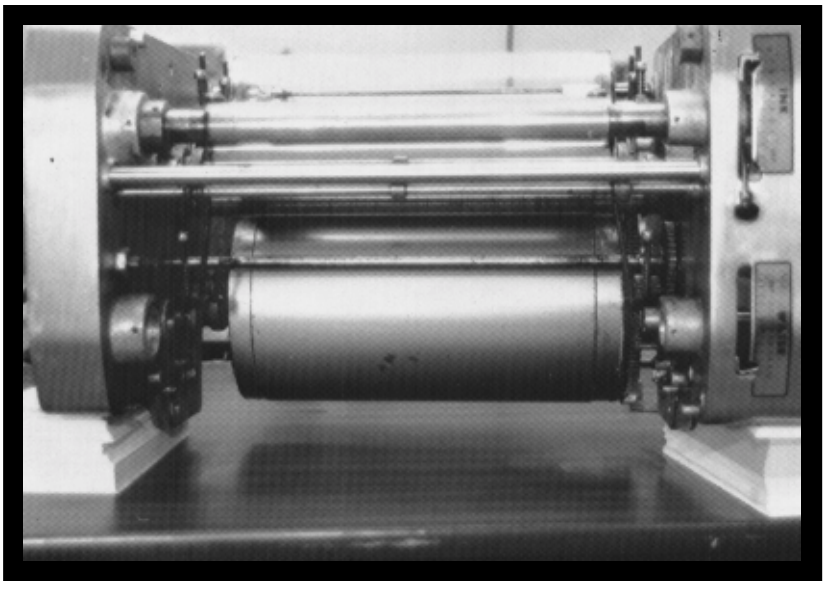
15 Shift ductor bracket back towards NOPS to remove from the press.


SUBJECT



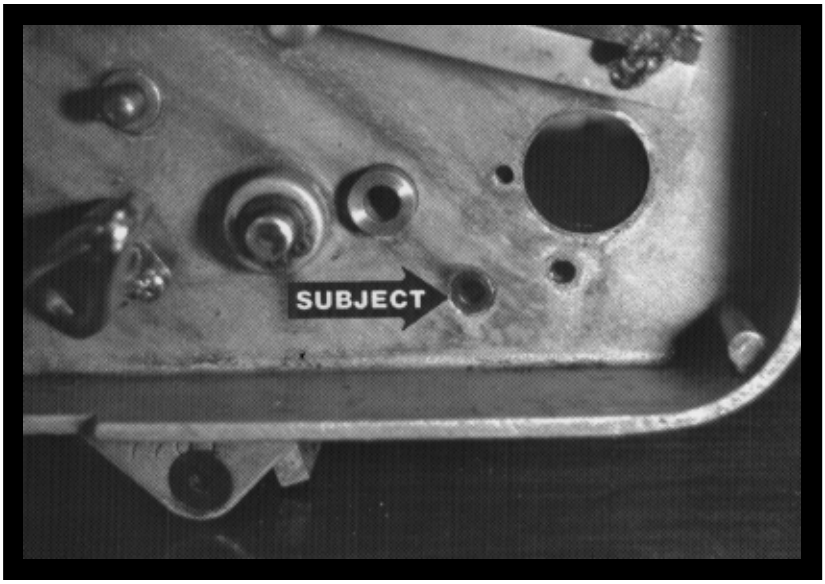


16 Knock out OPS water ductor bushing (subject arrow).

17 Remove water transfer roller by loosening the set screw on the OPS only of the side frame casting. Slide ball bearing housing towards the outside OPS frame. This will allow you to remove the roller.

18 This is how the T-Head should look after everything is removed.

YOU ARE NOW READY TO INSTALL CRESTLINE®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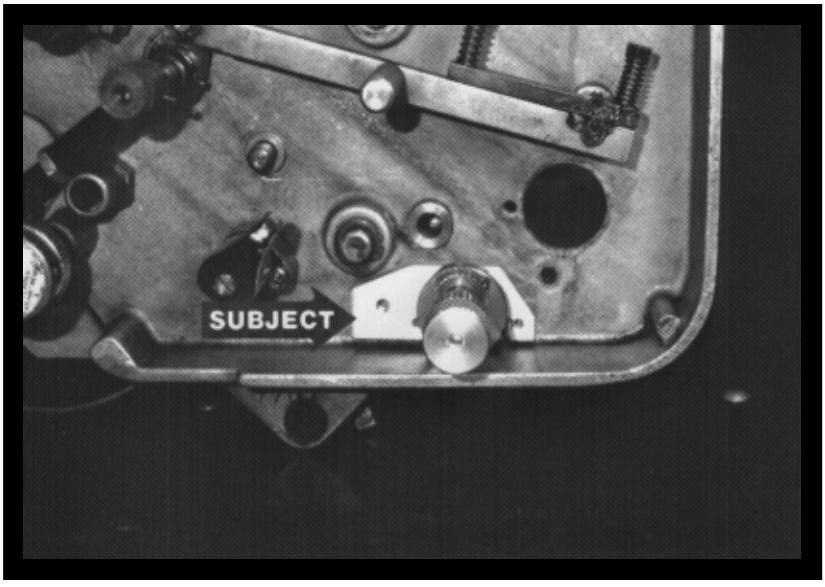
SUBJECT

1 Replace the existing form and transfer rollers in the Townsend Head with the new ones provided with the dampener. Make sure the transfer roller is centered relative to the form roller before retightening the set screws in the bearing housings.

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2 Insert spool in hole at OPS (subject arrow).

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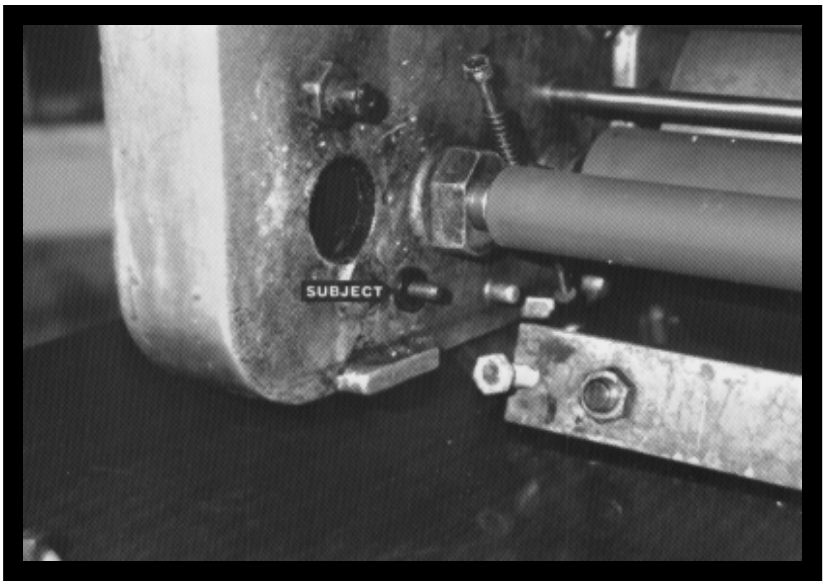
3 Install clicker assembly as shown. Slip cap head allen screw through the clicker assembly and spool installed in previous step.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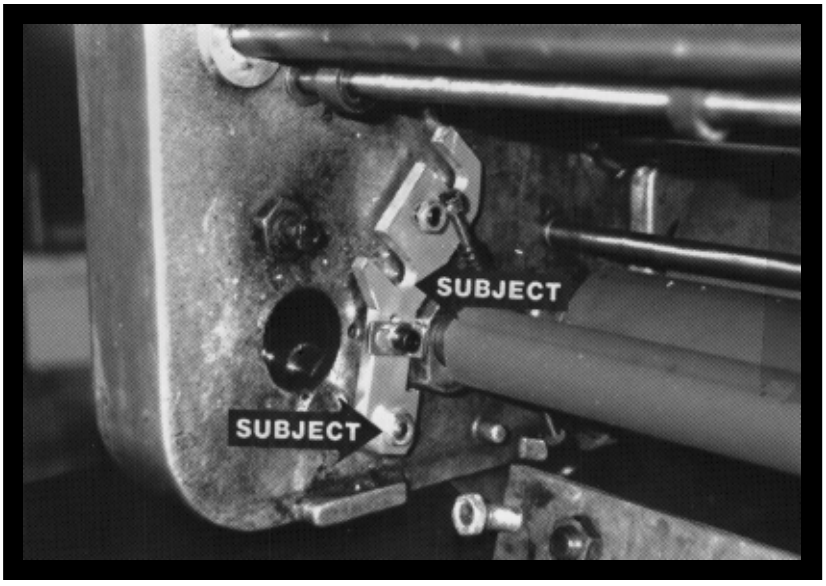
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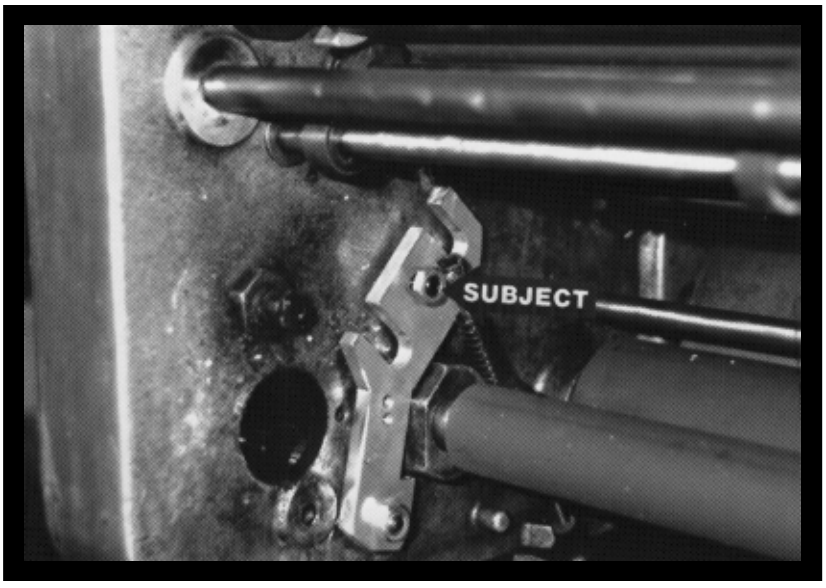
SUBJECT

4 Install black washer on inside of ratchet mechanism bolt at OPS (subject arrow).

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5 Install OPS metering & oscillator bracket (upper subject arrow). OPS bracket has small clearance hole. Put nut on bolt (lower subject arrow), push the bracket all the way against transfer roller casting and tighten thoroughly.

There is a small radius on the outside of the frame casting that can cause the clicker assembly to twist. If it helps, insert 2-3 pieces of chip board between the bottom of the clicker plate assembly and horizontal portion of frame casting before tightening nut.

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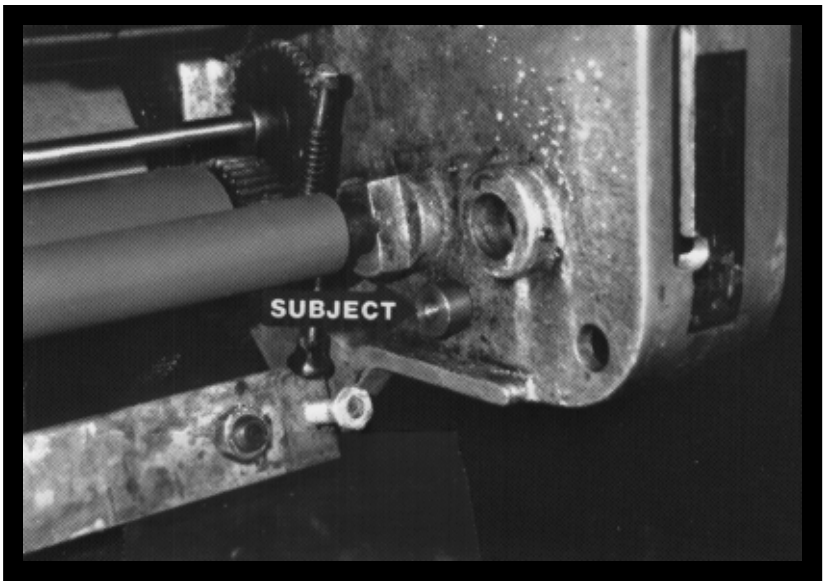
6 Adjust set screw (subject arrow) until it just touches the T-head casting to hold the bracket in position. DO NOT apply unnecessary pressure and cause hanger to warp. Reinstall lock nuts and retighten.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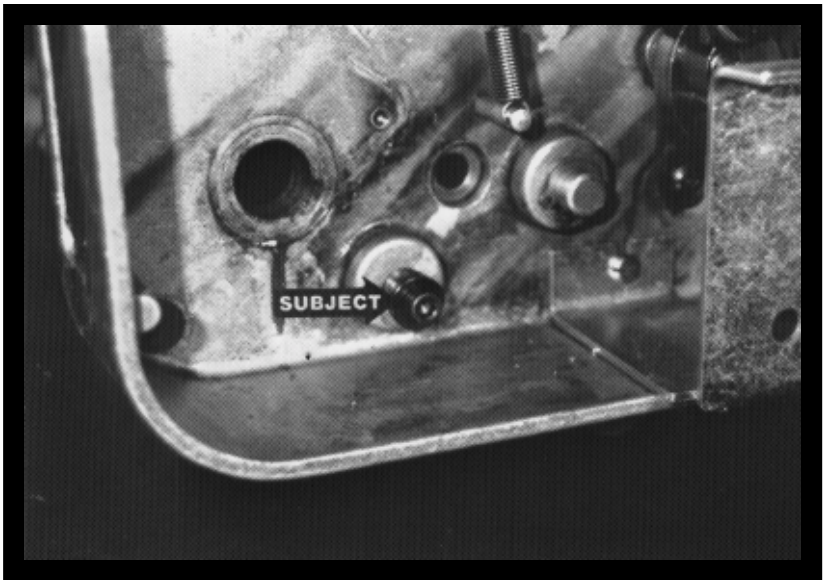
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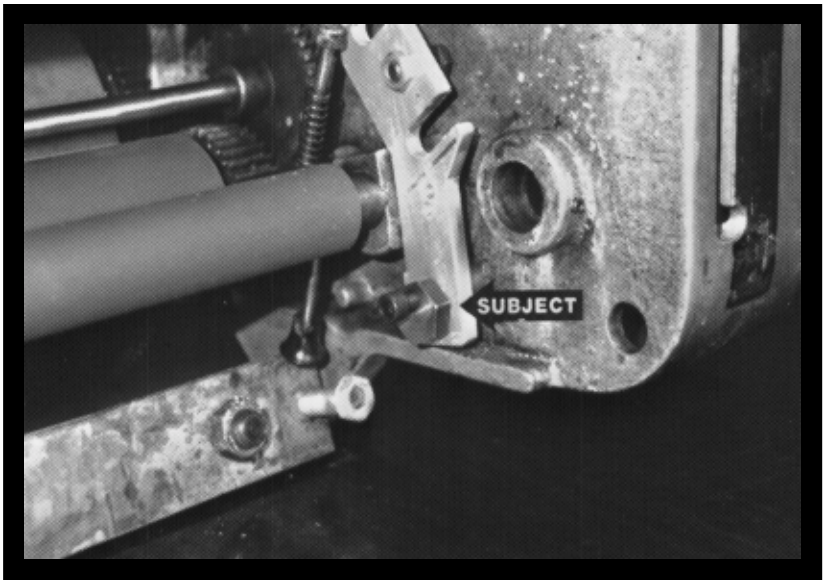
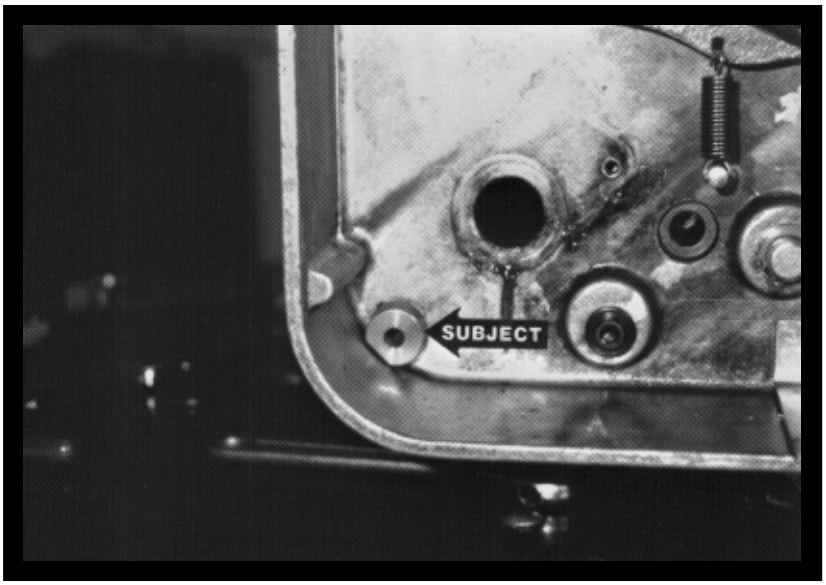

SUBJECT

7 Insert flanged spool (flange to inside) into hole that previously contained the water ductor shaft bushing on NOPS.

8 Install bolt & washer at NOPS (subject arrow) to hold flanged spool in place. Bolt will be inserted from outside the T-Head frame.

9 Install eccentric & bracket at NOPS (subject arrow). Position eccentric so the high side of the lobe faces directly out of the machine. There will be a yellow dot denoting this side of the cam. The flat side of the eccentric nearest the yellow dot will be approximately parallel to the edge of the hanger bracket. Make sure the hanger bracket is pushed all the way forward against the casting and snug bolt with wrench. Adjust set screw in top of bracket as in step 6.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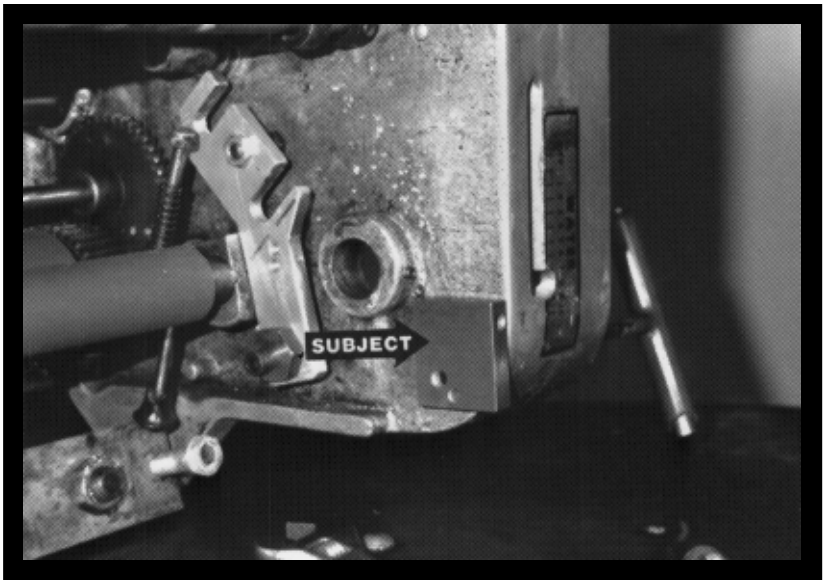
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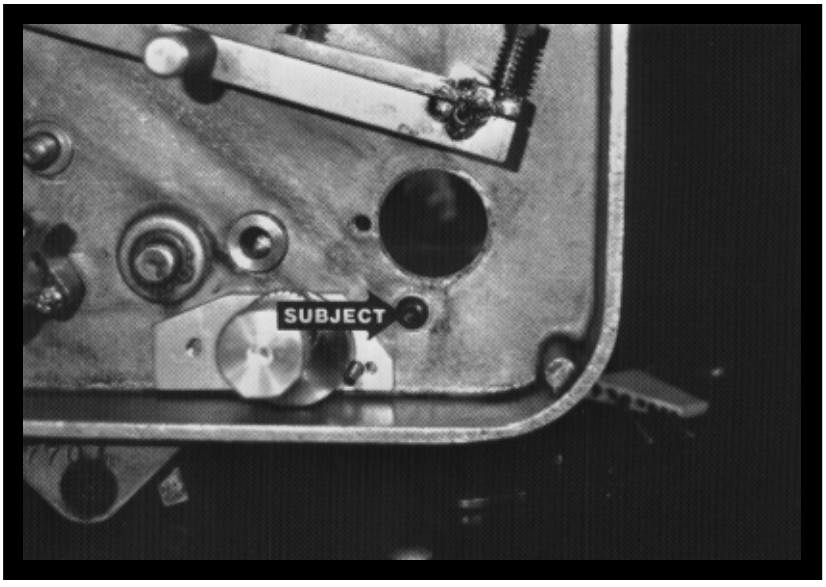
SUBJECT

10 Install flanged water pan block spool (subject arrow) at NOPS. Flange will go to the outside of the T-Head frame and "flat" pointing toward radius in casting (subject arrow).

---

11 Install water pan block at NOPS (subject arrow). Block held in place by bolt going through spool in previous step. Parallel the back of the block with the back of the T-Head frame and fully tighten bolt.

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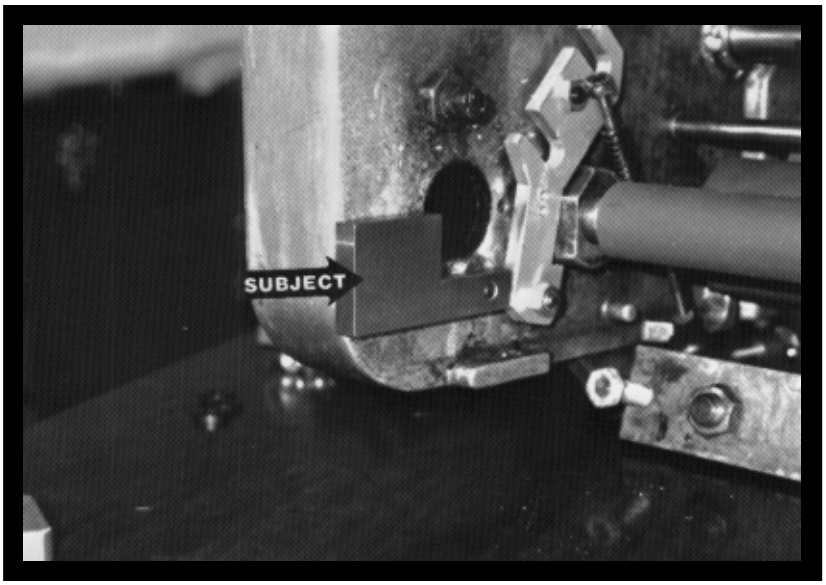
12 Install bolt and washer for OPS water pan block in frame (subject arrow).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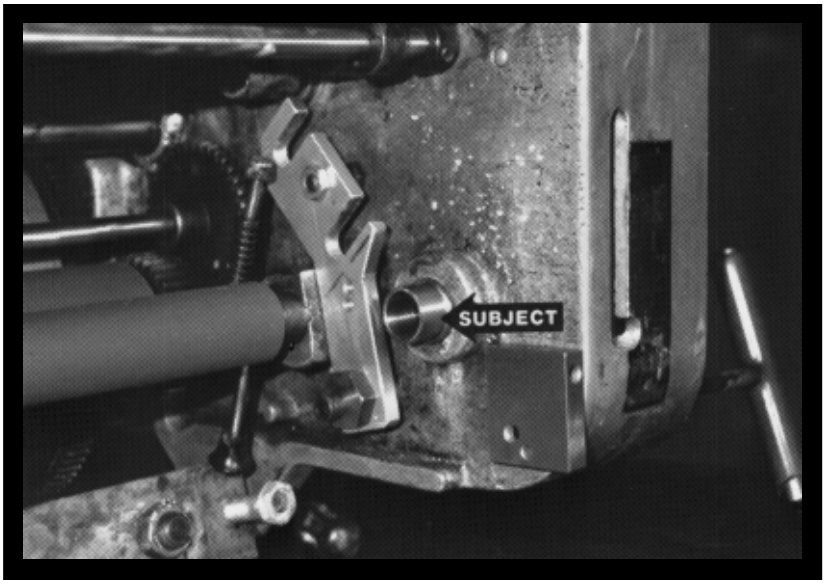
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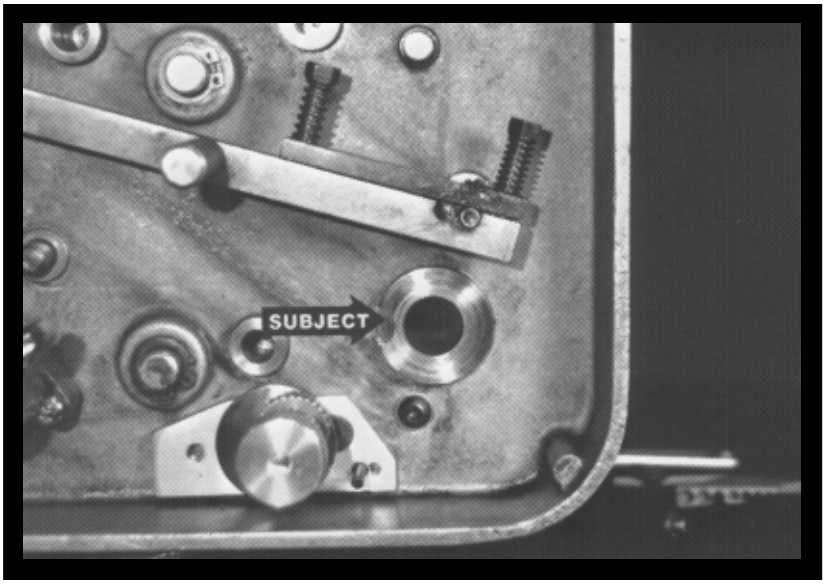
SUBJECT

13 Install water pan block at OPS (subject arrow). Parallel the back of the block with the back of the T-Head frame and fully tighten.

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14 Install water pan roller sleeve at NOPS (subject arrow) but do not tighten set screws in casting.

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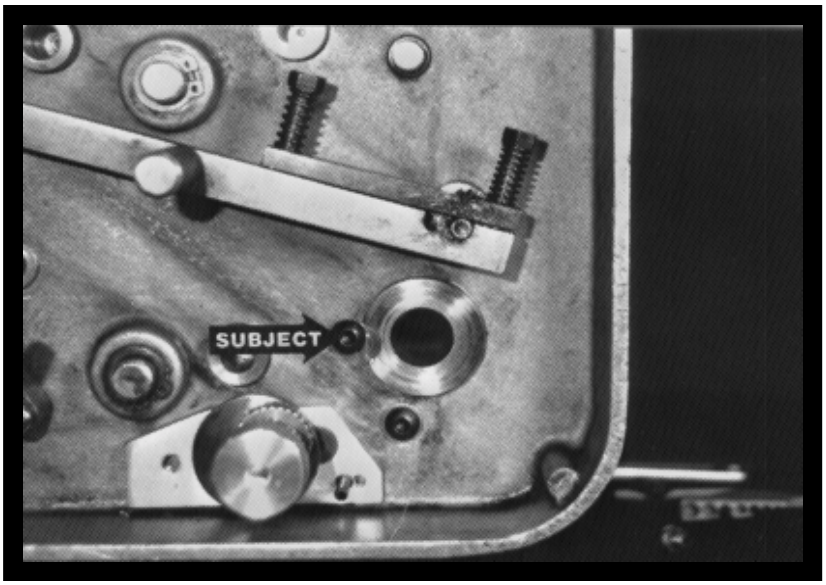
15 Install water pan sleeve at OPS (subject arrow). Undercut in flange will point toward tapped hole.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SUBJECT

16 Install bolt to hold the sleeve (subject arrow). Tighten the bolt just so it holds the sleeve in place. Over tightening the bolt will cause the sleeve to be cocked. The bolt has a nylon button on it to hold it in place.

---

17 Install large rubber intermediate roller (subject arrow) using the same mechanism that held the plastic oscillator.

---

18 Install the hard rubber oscillator (subject arrow) in the upper bracket slot. Grease fitting will go to the NOPS. Loosen black collars and slide roller all the way to the OPS. Push collars against aluminum frames and tighten.


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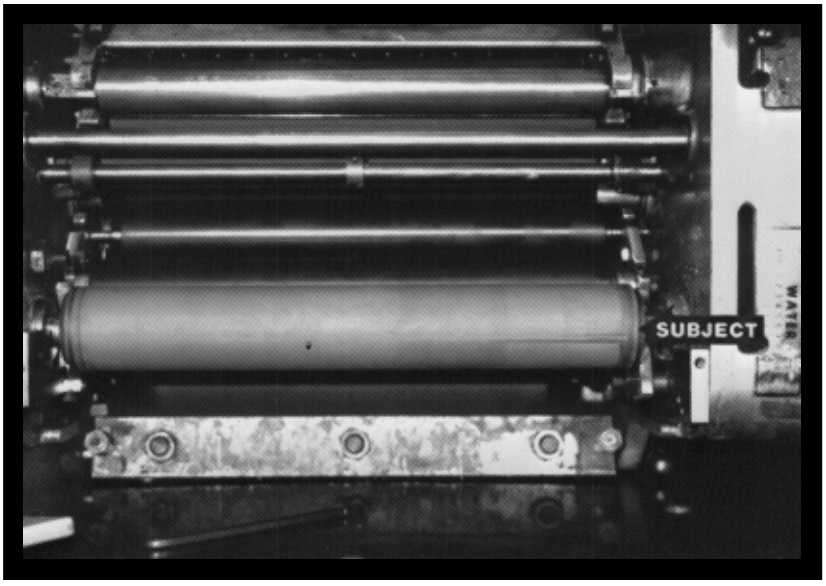
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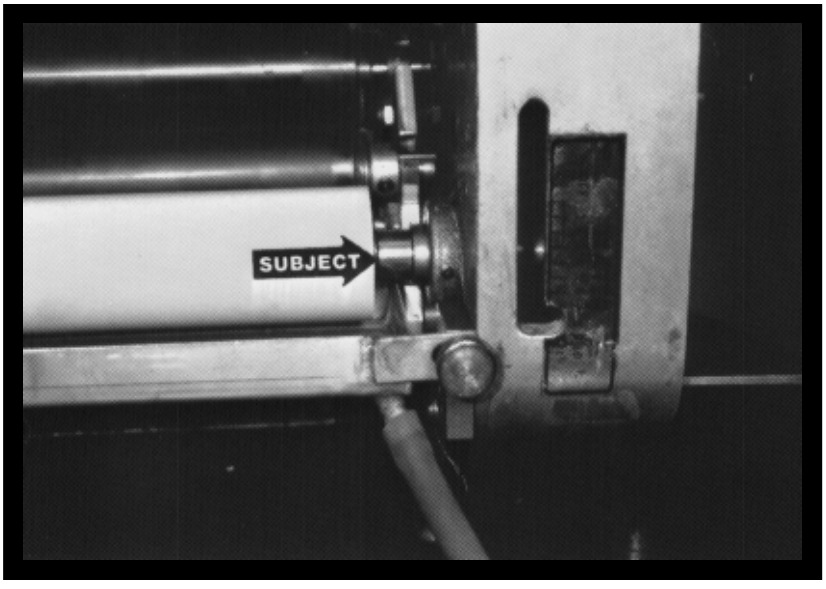
SUBJECT

19 Install the metering roller in the lower bracket slot, with the pin to the NOPS and facing out (subject arrow). Center metering roller relative to small transfer roller beneath it.

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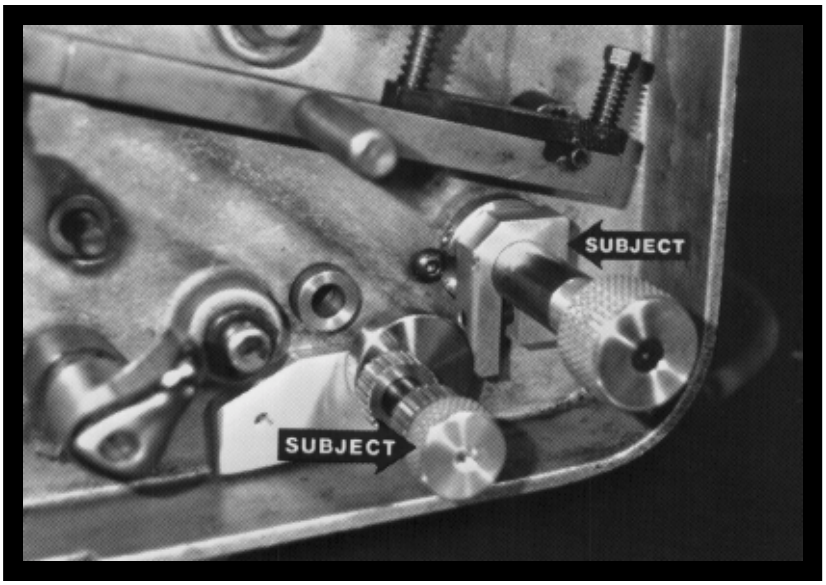
20 Install the pan roller. Insert eccentric shaft through OPS sleeve then through roller and into NOPS sleeve. Push shaft all the way to NOPS until aluminum arm stops against flange on OPS sleeve.

---

21 Push NOPS sleeve (subject arrow) against the end of the pan roller and check to see that pan roller is centered relative to metering roller. Lock the sleeve in place using the set screw in the casting.

YOU ARE NOW READY TO MAKE FINAL ADJUSTMENTS.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FINAL ADJUSTMENTS

1

Loosen lock knob and rotate ratchet mechanism clockwise until the black eccentric stops against the pin, then retighten knob (left hand subject arrow). Next, slowly rotate pan roll shaft (right hand subject arrow) counterclockwise while watching how the gap between the pan roller and metering roller closes. If one end of the pan roller contacts the metering roller before the other, then the pan roller must be paralleled to the metering roller. To do this, adjust the black eccentric (with yellow dot) on the hanger bracket. Turning the eccentric clockwise will lower the metering roller on the NOPS, turning it counterclockwise will raise it. Always remember to keep the hanger bracket pushed all the way against the transfer roller bearing housing when adjusting eccentric. After approximate parallel has been obtained, tighten nut against eccentric.

2

Turn the pan roller shaft counterclockwise until you can feel pressure being applied between pan and metering rollers. While holding the roller in this position, loosen aluminum arm on the pan roller shaft and push against the eccentric on the ratchet mechanism. Make sure the cutout on the arm fits behind the flange of the ratchet eccentric. In this position, retighten bolt to clamp arm to pan roller shaft.

3

Ink-up the T-51 system. Apply a small amount of ink directly to the dampener oscillator. Idle the press for about 1 minute while watching roller operation in the dampening system. If everything appears to be normal, proceed to setting the stripe from the water form roller to the plate. This is done in the exact same manner as prior to installing Crestline. The stripe should measure 5/32". Use the stripe gauge provided to check this.

FINAL ADJUSTMENTS

4

Now proceed to set the pressure between the pan and metering rollers in the dampener. After the press sits still for 20-30 seconds, you will be able to bring up a stripe on the pan roller by bumping the press forward with the hand wheel. First, make sure the stripe is straight. If not, this means further adjustment of the hanger eccentric is necessary (refer to step 1). If the stripe is straight, check its measurement with the gauge. It should be 5/32". If not loosen the aluminum arm on the pan roller shaft and turn it clockwise to decrease the stripe, counterclockwise to increase the stripe. After the proper stripe has been obtained, retighten arm against eccentric.

5

After roller pressures are set, check the water level in the pan. It should be approximately half way up in the pan. If you see a ring of water on each end of the pan roller while the press is running, the water level is sufficiently high. Water level is adjusted by the thumb screw located on the filler assembly.

6

Always check to see that the ink form pressures as well as plate cylinder to blanket cylinder pressure is set to Townsend specifications. This is necessary for proper dampener performance.

Replace side covers. It will be necessary to notch OPS cover to clear new dampener knobs.

YOU ARE NOW READY TO PRINT

START OF DAY

A. Make sure all rollers are secure in their proper position.

B. Turn knurled knob on ratchet assembly clockwise until it stops.

C. Before adding water, ink-up the dampener. This is done either by applying a small amount of ink directly to the dampener oscillator, or by dropping both water and ink form rollers to the plate and allowing the dampener to ink-up from the plate.

D. Place water bottle in bracket. Accel recommend using the proper fountain solution formulated for the specific plate type being run on the press.

RUNNING DURING THE DAY

A. Typically, 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. If necessary, the amount of water fed to the plate can be adjusted by turning the knurled ratchet knob. You are running minimum water with the knob turned fully clockwise. If you need more water, loosen the lock-knob, turn ratchet assembly counterclockwise one "click" at a time until proper moisture is achieved, then retighten lock knob. Make sure the arm on the pan roller shaft follows the black eccentric on the ratchet assembly. If necessary, turn the knurled knob on the pan roller shaft until the aluminum arm stops against the eccentric.

WASH UPS DURING THE DAY

1. Remove bottle and drain the excess water from the pan.
2. Mount a cleanup mat to the press.
3. Turn on the press and squirt a small amount of press wash on the ink rollers and dampener oscillator. Avoid excessive application of wash to the dampener or most of it will end up in the water pan. Do not use an extremely fast drying wash on the dampener as this can damage soft rubber. Fast-dry washes should only be used on blankets!
4. Drop both the dampener and ink forms to the cleanup mat.
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 as describe above. Pay close attention to cleaning the ends of the pan and metering rollers that extend past the form rollers.
2. Spin the knurled knob counterclockwise and relieve pressure between the metering and pan rollers.
3. Remove any excess wash that may remain on dampener metering and pan rollers.

DEGLAZING THE DAMPENER

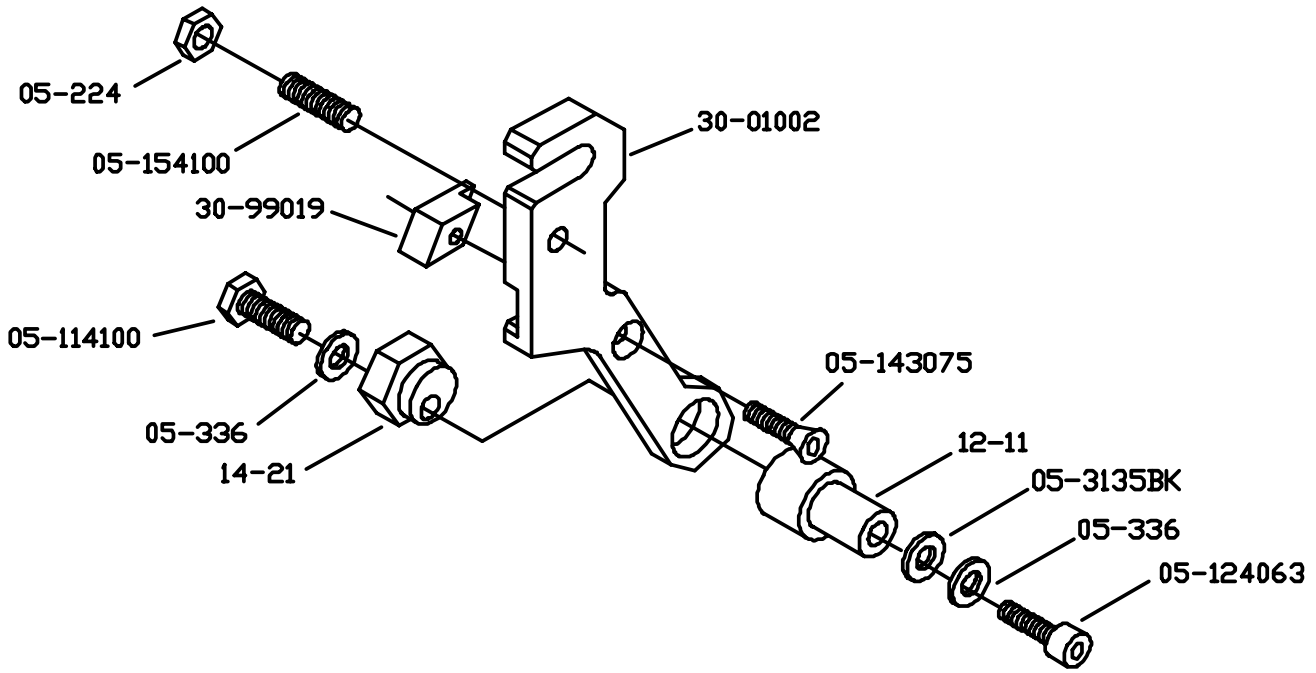
Periodic deglazing of water-soluble contaminants is necessary with the Crestline®. Typically, once every 2 weeks is sufficient, unless you are running electrostatic plates on a daily basis, where deglazing should be performed weekly. Accel recommends its product, Compound X, for deglazing purposes. Avoid deglazers containing pumice or gritty substances. Always follow deglazing with hot water and roller wash.

OILING AND GREASING THE DAMPENER

A. Place a small amount of grease on the gears once a month.

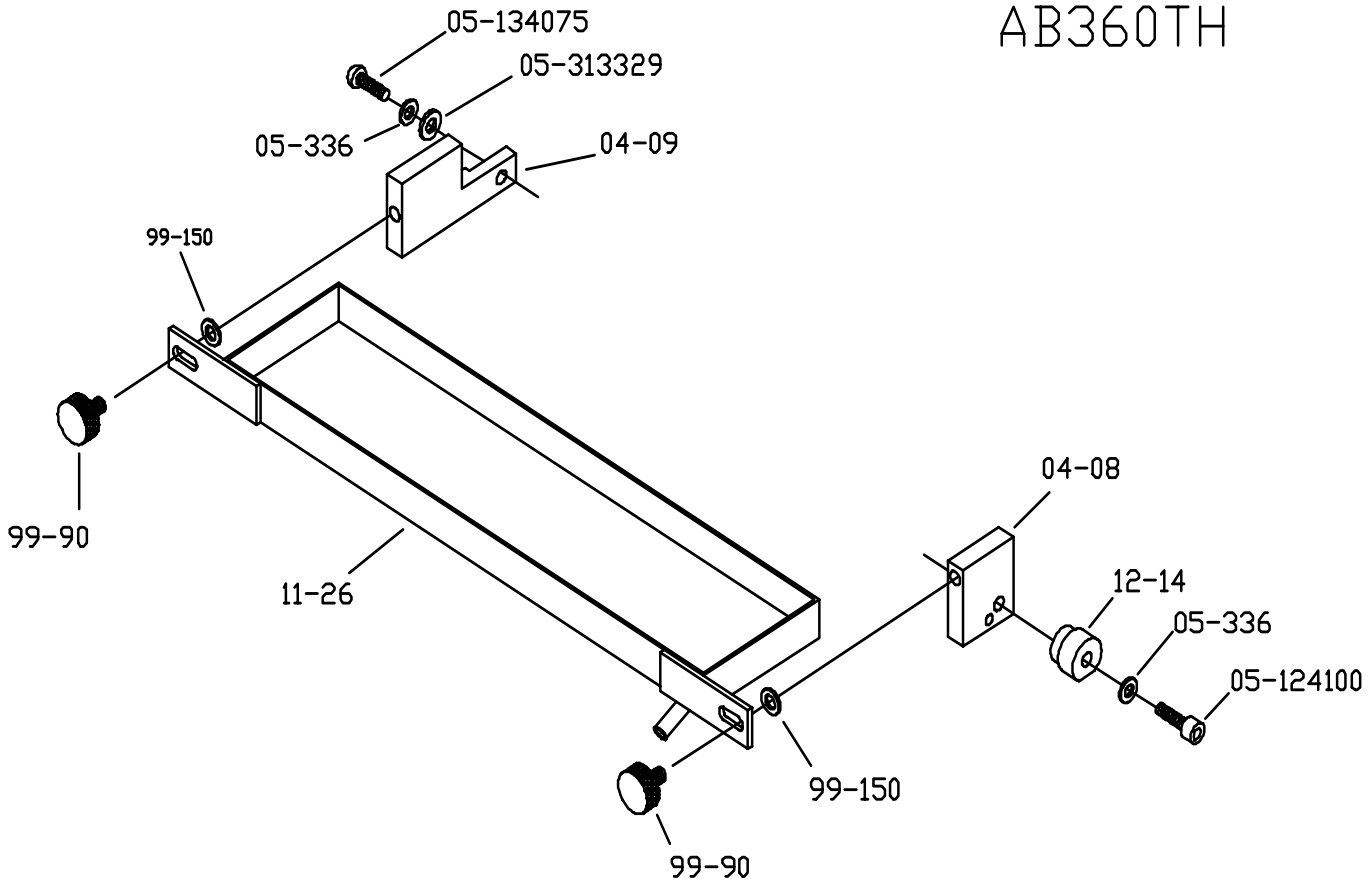
B. Inject grease into the oscillator grease fitting once a month.

AB360TH



36TH-02, 8-96

AB360TH



36TH-03, 8-96

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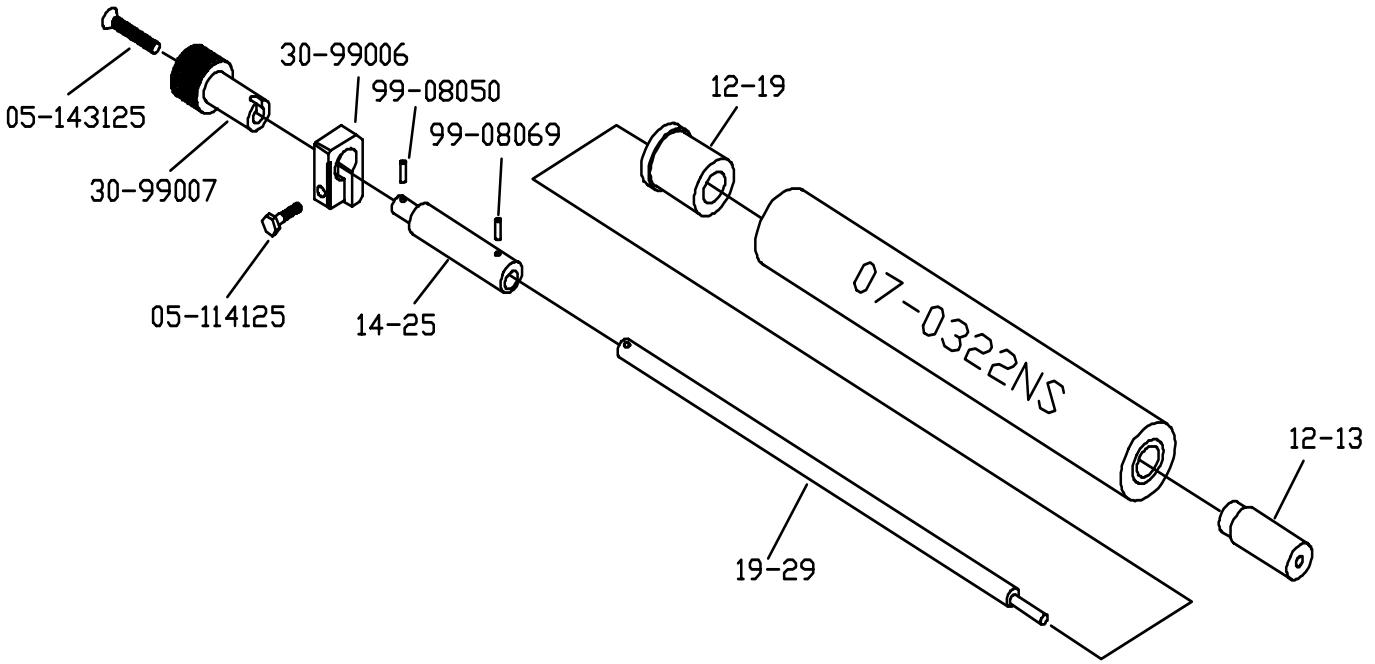

36TH-04, 8-96

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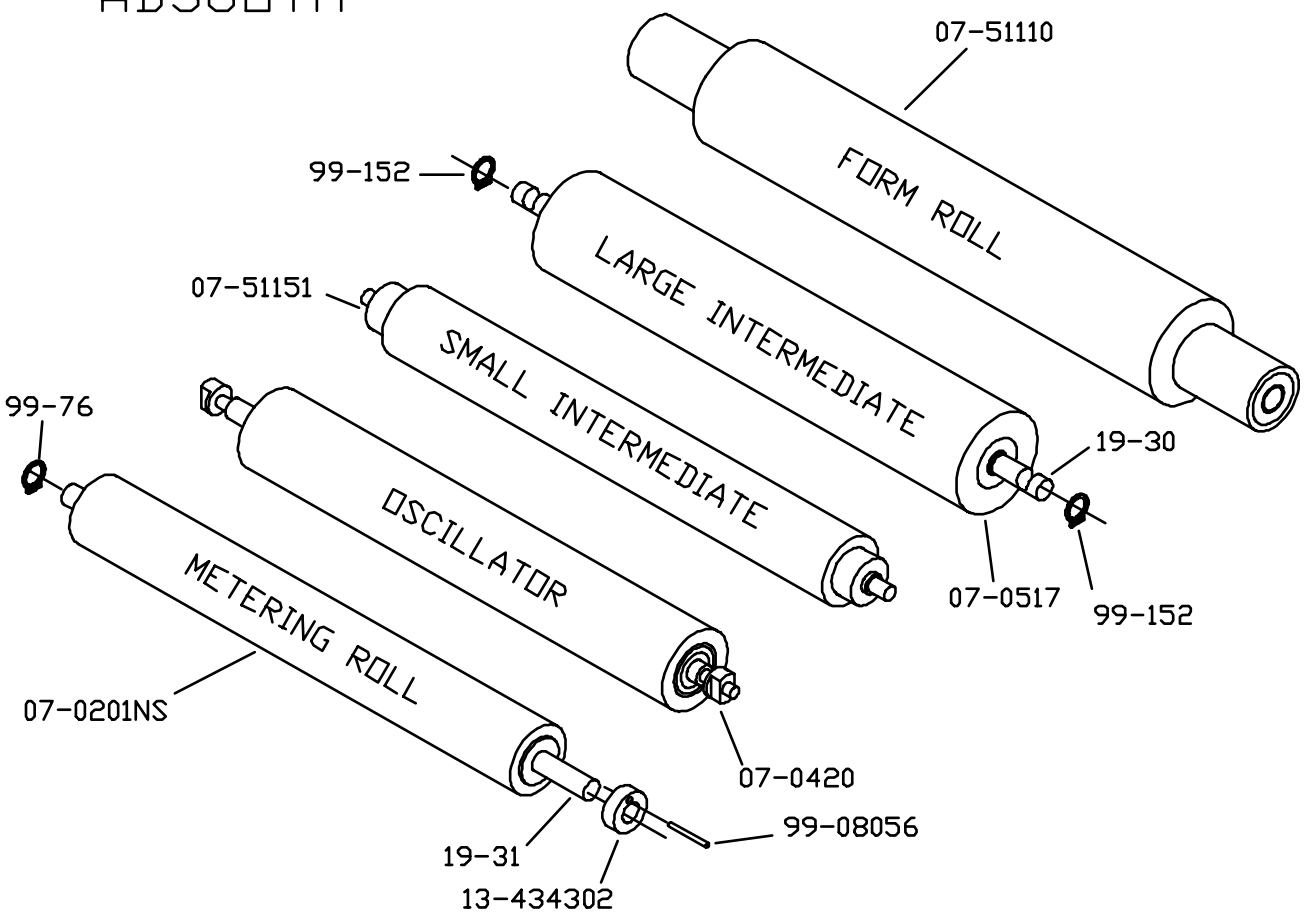

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11103 Indian Trail, Dallas, TX 75229 Phone 972-484-6808, Fax 800-365-6510
E-mail info@accel-us.com, Web Site www.accel-us.com