

Crestline® Dampening System

Installation Instructions

Hamada RS34 & VS34 Parent Unit

DU34 Upper Unit

For Presses Originally Equipped With

Molleton Dampeners



A Pamarco Technologies Inc. Company

X88-78
01/2001
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 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:

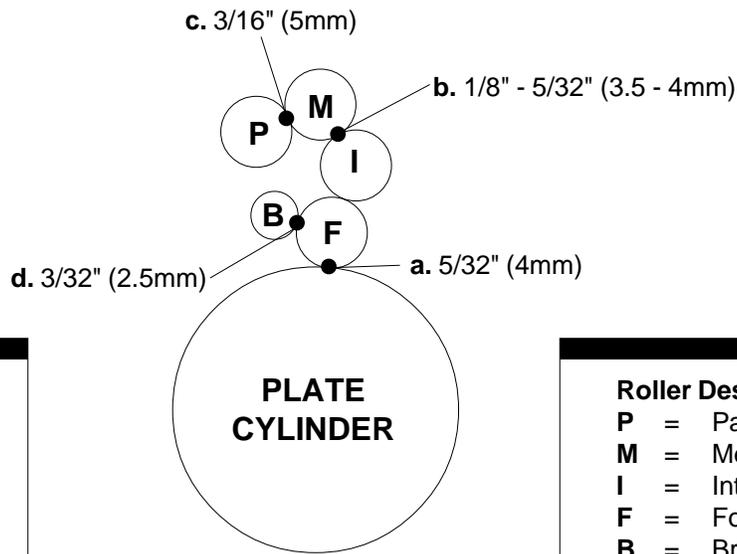
**THE SERIAL NUMBER OF YOUR
CRESTLINE® DAMPENER(S) IS:**

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. Form to Plate
b. Metering to Intermediate
c. Metering to Pan
d. Bridge to Water Form

Roller Description
P = Pan
M = Metering
I = Intermediate
F = Form
B = Bridge

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
 (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

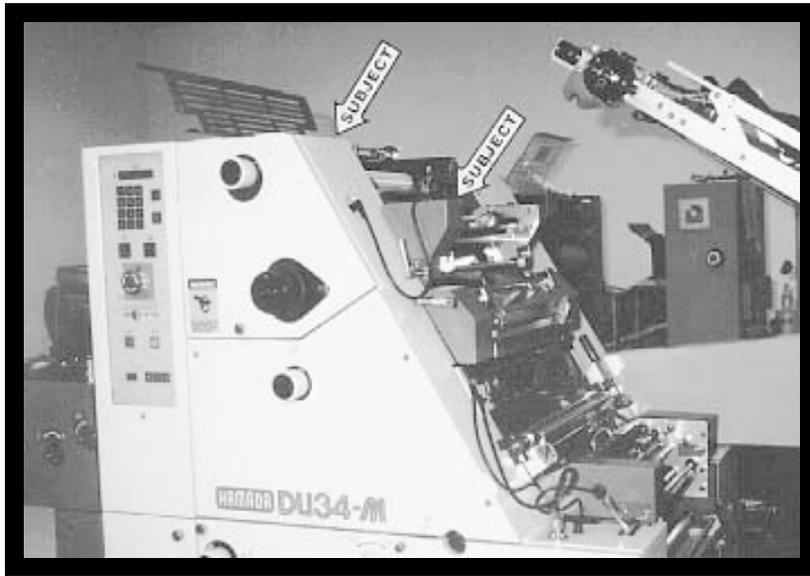
GENERAL INFORMATION

REQUIRED TOOLS

1. Phillips Screwdriver
2. Standard Screwdriver
3. 10 mm Open End
4. 13 mm Open End
5. 2.0 mm Allen Wrench
6. 2.5 mm Allen Wrench
7. 3 mm Allen Wrench
8. 4 mm Allen Wrench
9. 5 mm Allen Wrench
10. 8 mm Allen Wrench
11. 2.5 mm Punch
12. 3.0 mm Punch
13. 5.0 mm Punch
14. Hammer

PRE-INSTALLATION INFORMATION

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 the flat surface. Retighten bolts.



DISASSEMBLY

1

Disconnect and remove plate inserter from DU34 parent, right hand subject arrow.

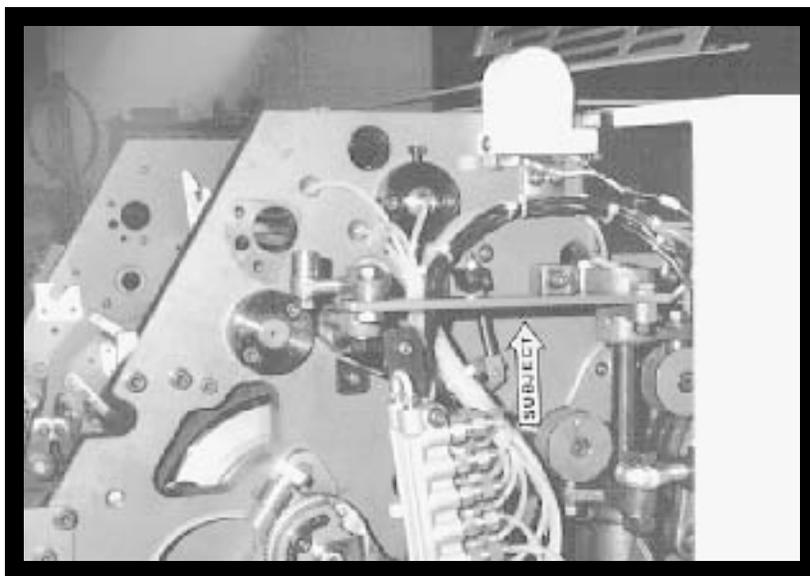
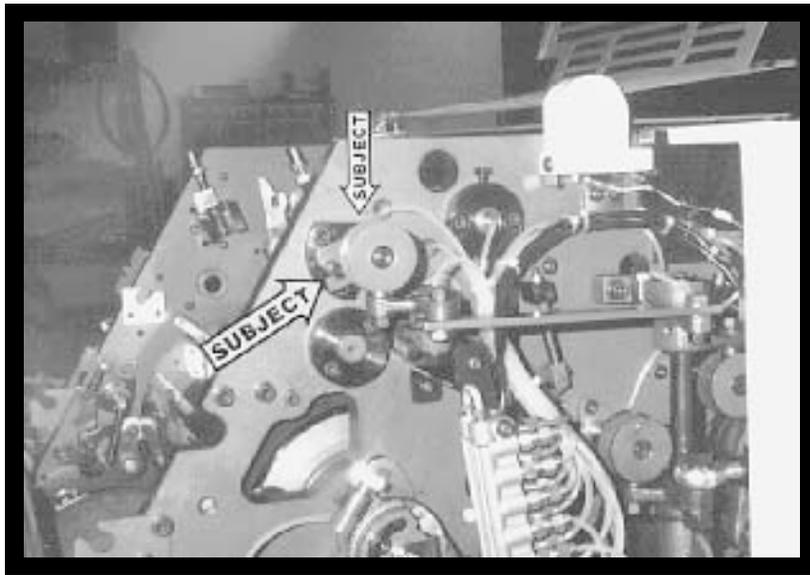
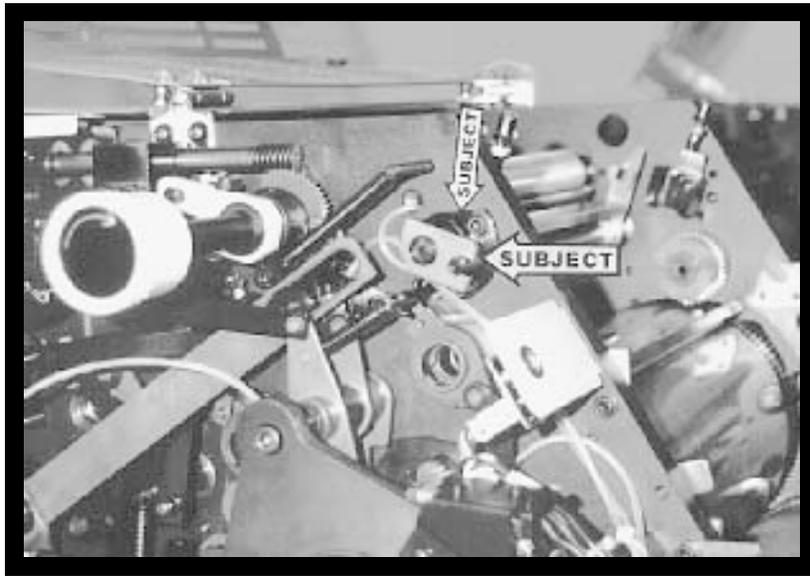
2

Remove side covers at OPS & NOPS, left hand subject arrow, in picture from step 1. Also, remove top inker guard and dampener/plate cylinder guard as well as their hinges. Save for reinstallation.

3

Remove molleton rollers and water pan from existing dampener. Also, remove small rider roller from top of the first ink form.

7



DISASSEMBLY

4

At OPS, remove water oscillator drive by punching out roll pin and guide pin, then remove cap screws (subject arrow).

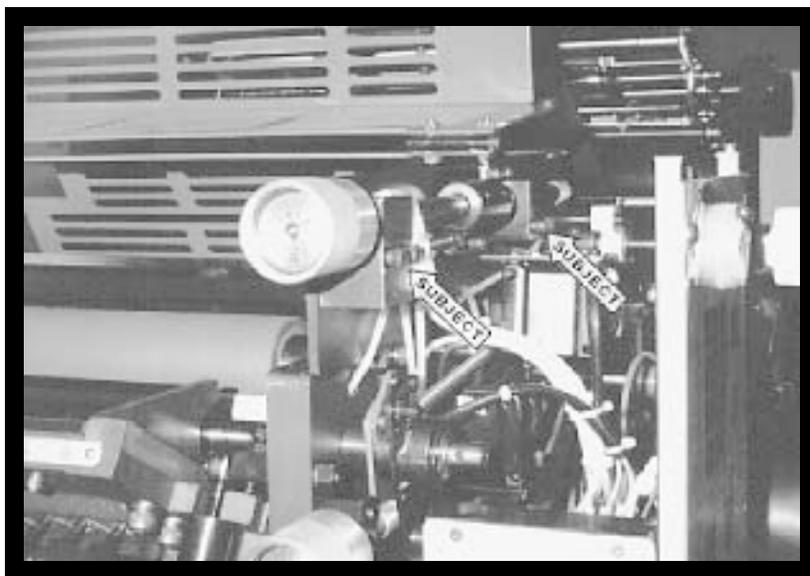
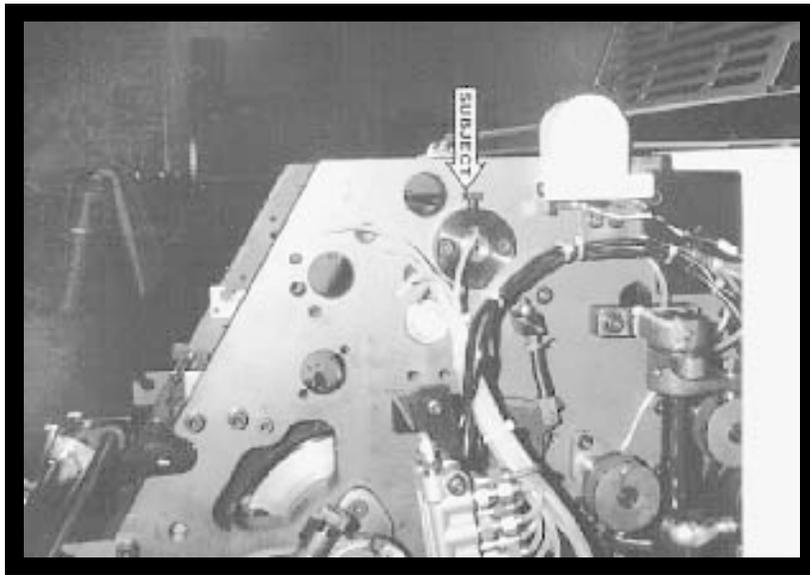
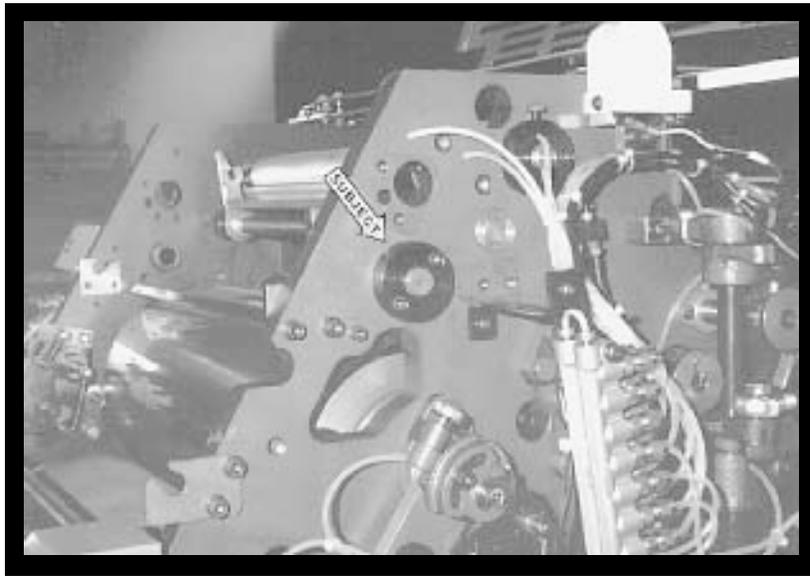
5

Remove oscillator guide spool and drive at NOPS by punching out roll and guide pins and removing cap screws (subject arrow).

6

Optional! Remove oscillator drive link at NOPS (subject arrow).

9



DISASSEMBLY

7

Remove water form drive gear from NOPS (subject arrow).

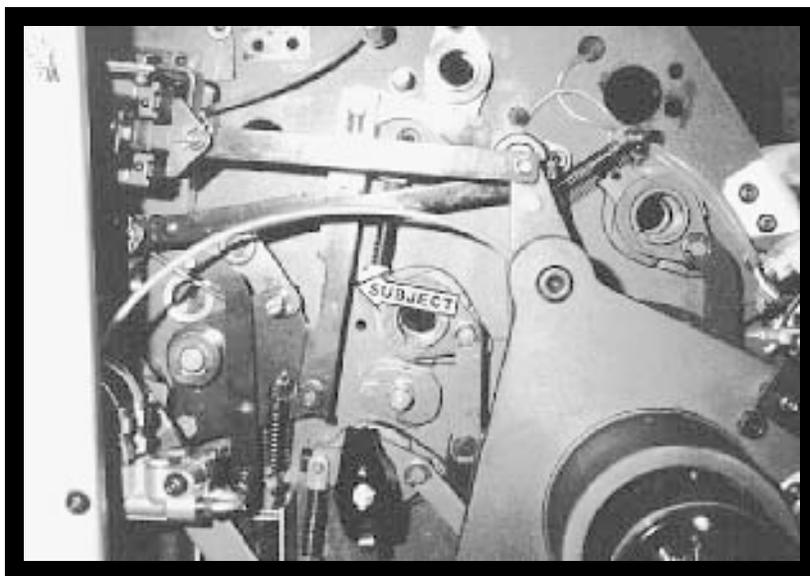
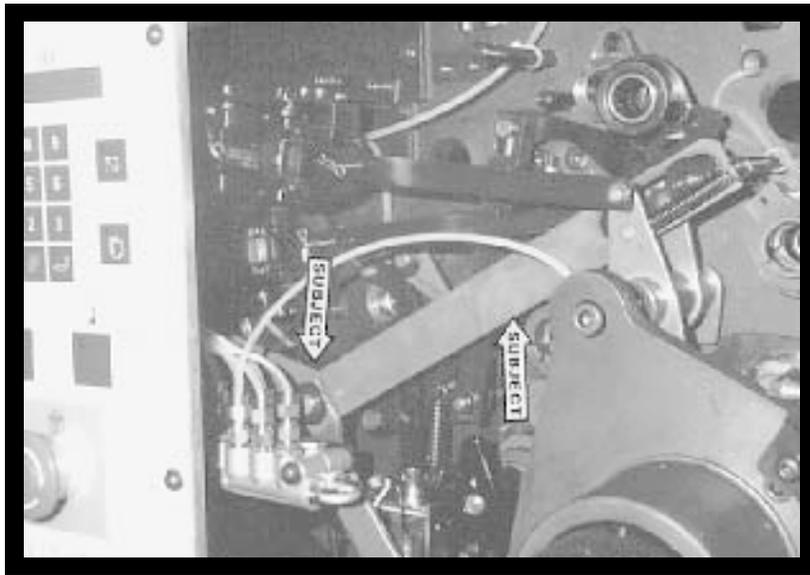
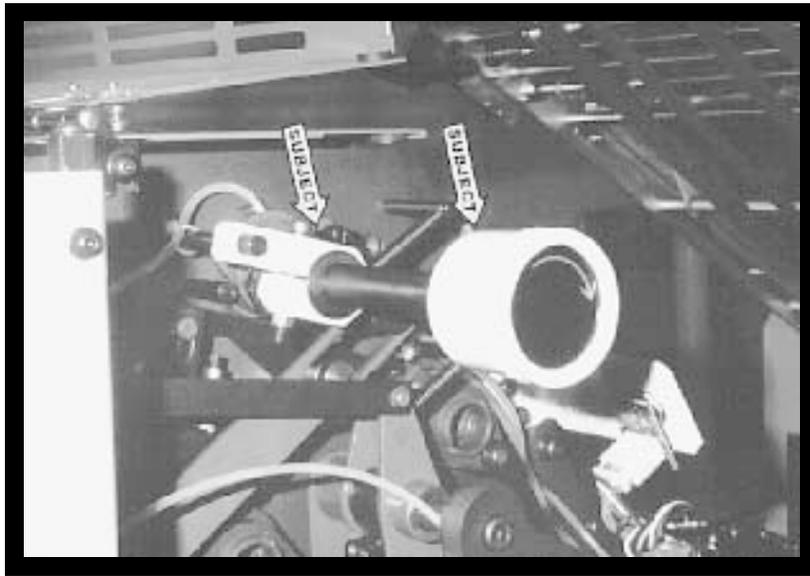
8

Remove pan roller bearing housing at NOPS, loosen screw holding pan roller to journal at OPS and remove pan roller (subject arrow).

9

At OPS, remove water adjustment knob by removing cap screws and guide blocks at OPS (subject arrows).

11



DISASSEMBLY

10

Remove knob from end of pan roller journal at OPS (right hand subject arrow). Remove "E" ring, loosen tension block and pull off (left hand subject arrow). Remove second "E" ring, push shaft in and remove from press.

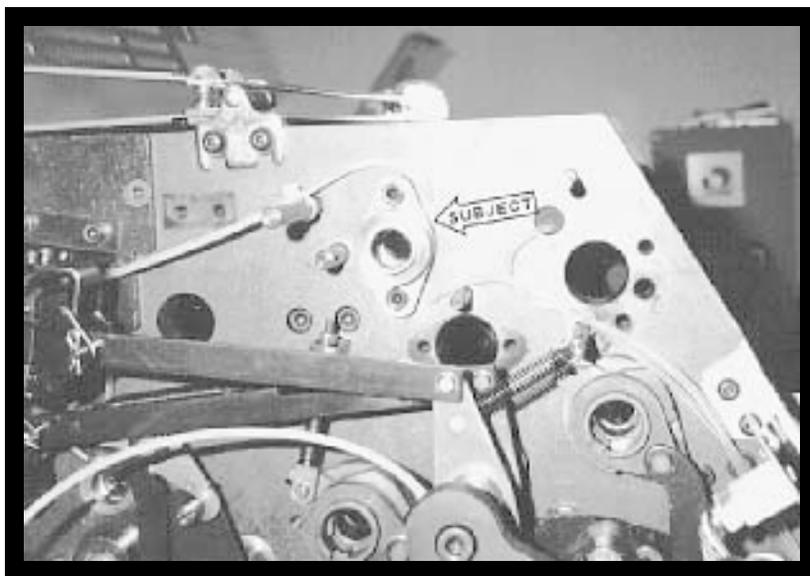
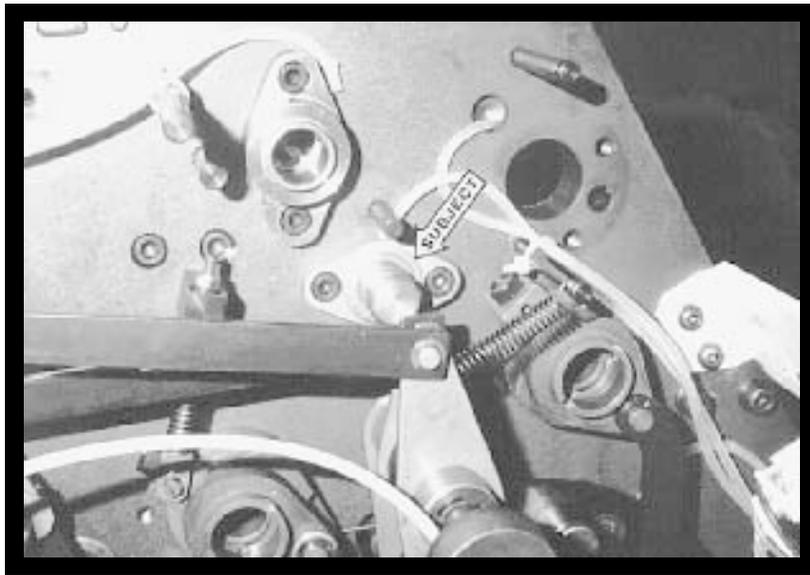
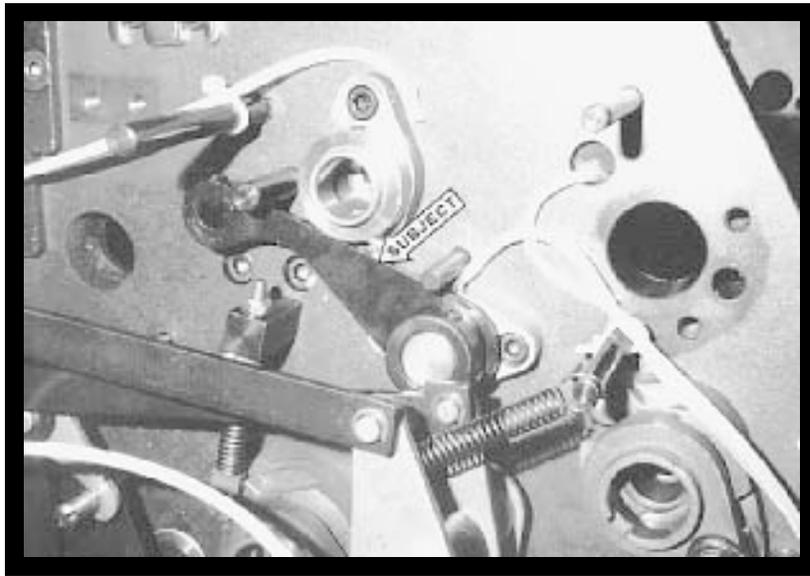
11

At OPS, remove water pan roller drive arm by removing "E" ring at pivot point (left hand subject arrow). The arm is behind the ink fountain roller drive arm. After removing arm, insert the provided spacer in its place and reconnect the ink fountain roller drive arm.

12

Remove water ductor connecting link at OPS (subject arrow) by removing nut and stud at bottom of link, loosening set screw in top of link and pulling out pin.

13



DISASSEMBLY

13

Remove link attached to ductor shaft at OPS (subject arrow) by loosening set screw and pushing shaft in.

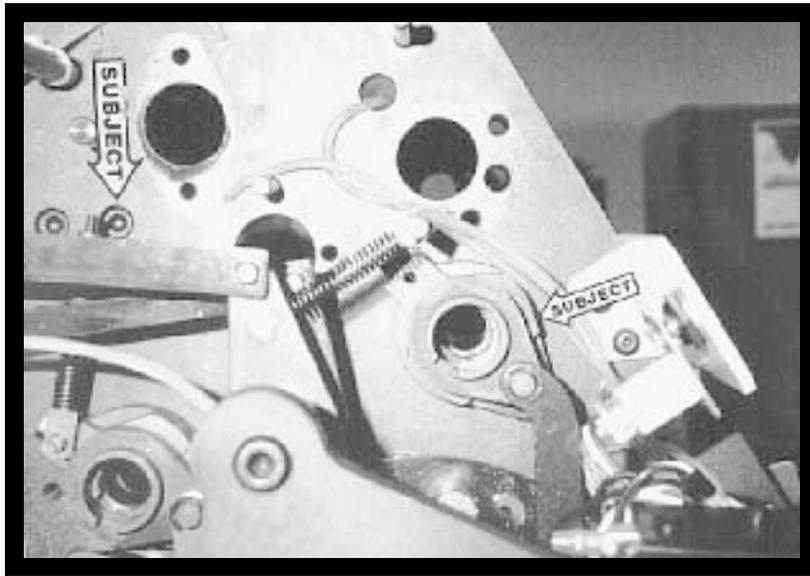
14

At OPS, loosen set collar on ductor shaft, knock out roll pin in center of the shaft, pull shaft out of the press towards NOPS (subject arrow). After shaft is out, removing bushing at OPS.

15

Remove pan roller bushing at OPS (subject arrow).

15

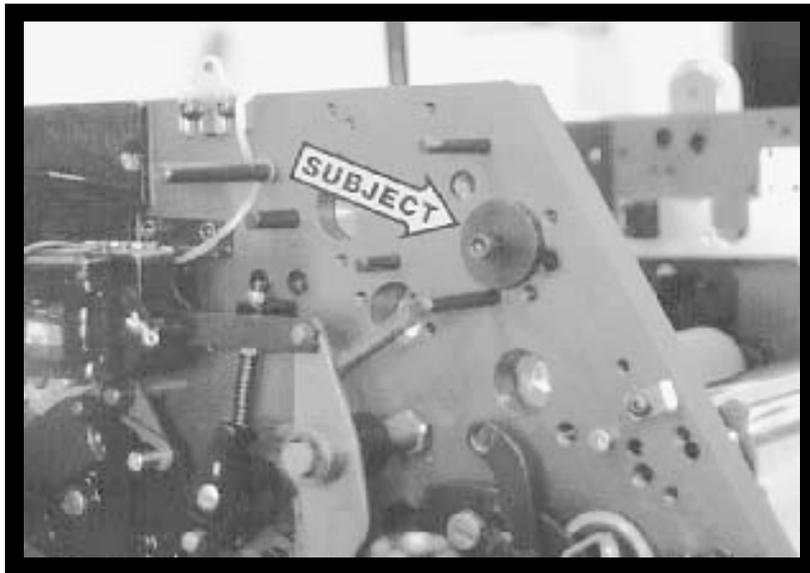
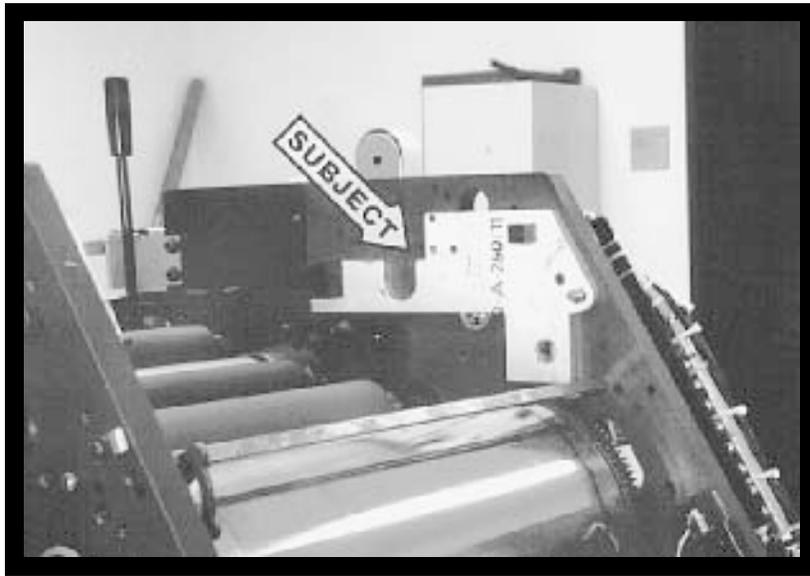


16

At OPS, disconnect water form roller connecting link and remove water form roller housing (right subject arrow). Link remains on press. Remove the tie bar bolt (left subject arrow) and tie bar from the press.

You are now ready to install Crestline®

17



INSTALLATION

1

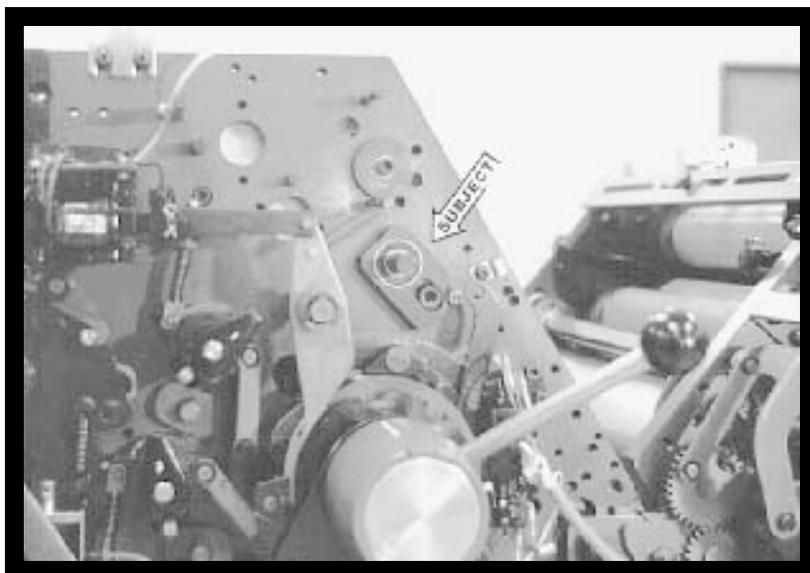
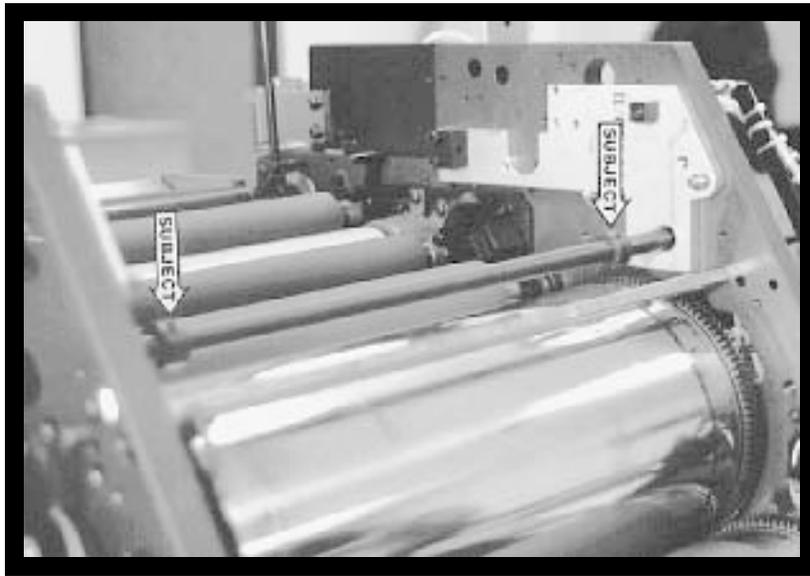
Install mounting frames at OPS & NOPS as shown (subject arrow) by placing the pin mounted to the frame in the hole that housed the pan roller.

2

Secure the frame to the press with the provided m5 & m6 socket cap head screws. The m6 bolt uses a flanged spool through the press frame to secure it in place (subject arrow). Bolts installed from the outside of the press frame at OPS & NOPS.

3

Insert actuation shaft halfway through the press frame, undercut on the shaft to the OPS.



INSTALLATION

4

Slide lift cams on shaft and align the threads in the cam with the dimples on the shaft. Make sure both cams are facing the same direction with the flats pointing towards the floor (subject arrow).

5

Slide the shaft all the way through the press and install a washer and snap ring on shaft at NOPS.

6

Install support block on actuating shaft and secure with an m8 screw (subject arrow).



7

Pull the shaft all the way to the OPS and install washer and snap ring at OPS. This sets the side to side position.

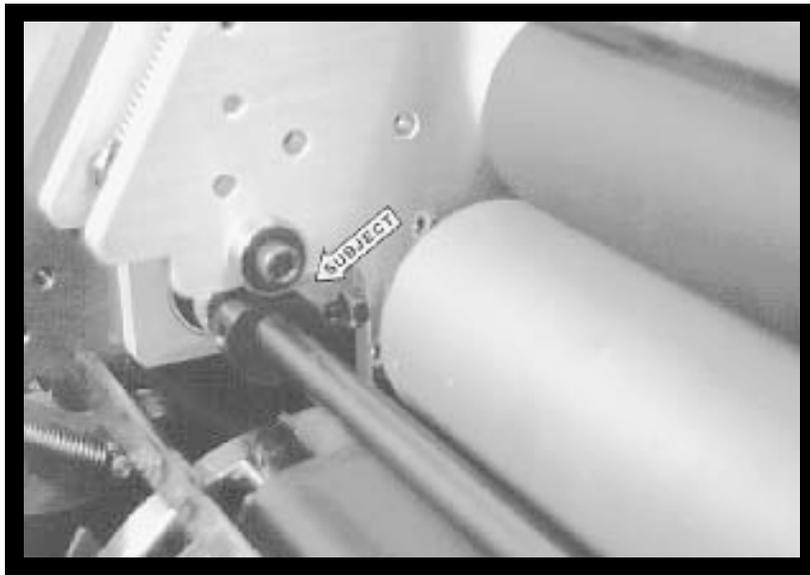
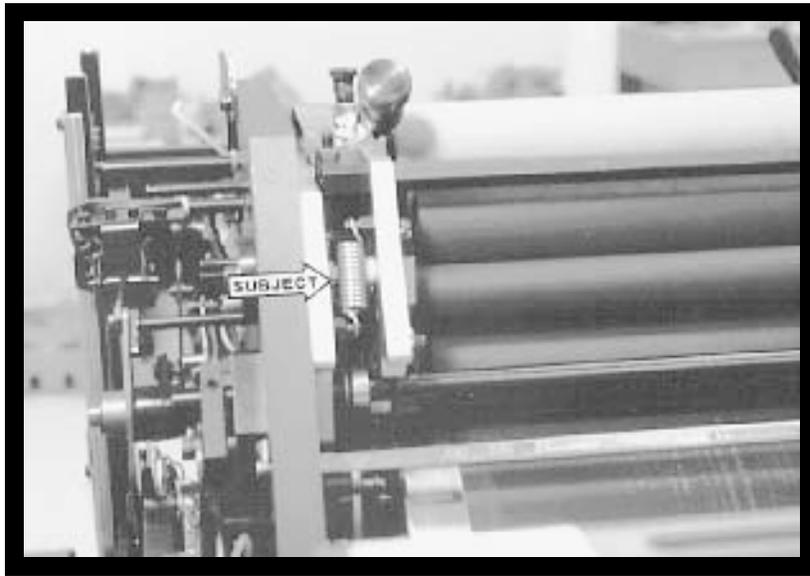
8

Slide control block on shaft and attach to existing water form link using m6 screw and spool (subject arrow). **Do not tighten set screw in control block. Final position of the cams is set later.**

9

Drop dampener in place with the bearings on the end of the pivot studs fitting into the pockets on the mounting brackets. Attach bearing caps to mounting bracket.

Note: the set screw in the center of the cap has been preset at factory. Do not adjust. Be sure that the bridge roller on the dampener is disengaged.



10

Attach springs from stud on mounting frame to stud on dampener frame (subject arrow).

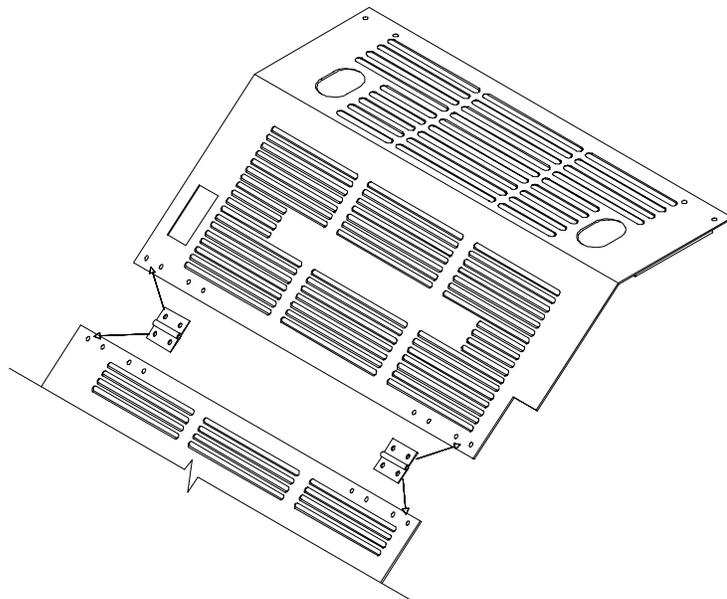
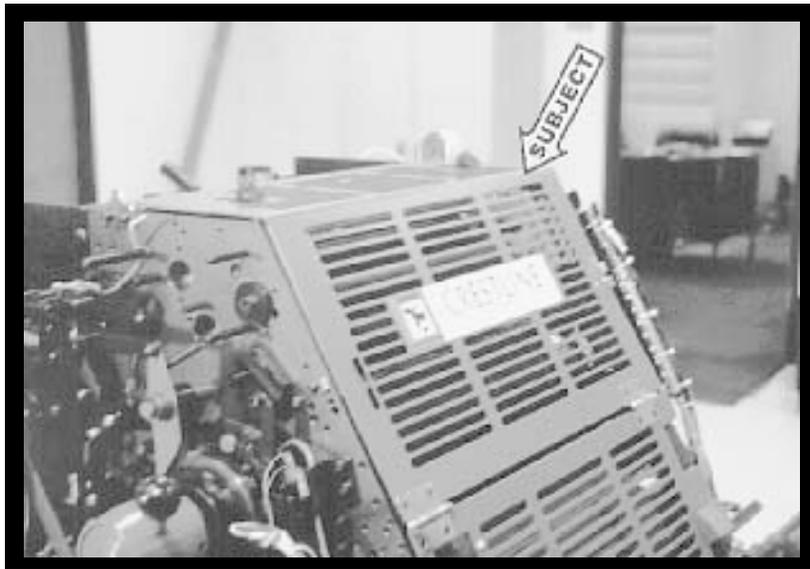
11

Position the lift cams as follows:

1. Place single lever in "Water On" position.
2. Rotate shaft so flats are pointing up, just under, but not touching the lift bearings on the dampener frame (subject arrow).
3. Holding this position, tighten set screw in control block into the undercut groove in lift shaft.
4. Return single lever to "Water Off" position. Cams should rotate up and lift the dampener off the plate cylinder.

12

Install new press tie bar using m5 socket cap screws and washers (subject arrow). *M5 Cap screws goes through a tapped m6 hole that is being used as a through hole.*



13

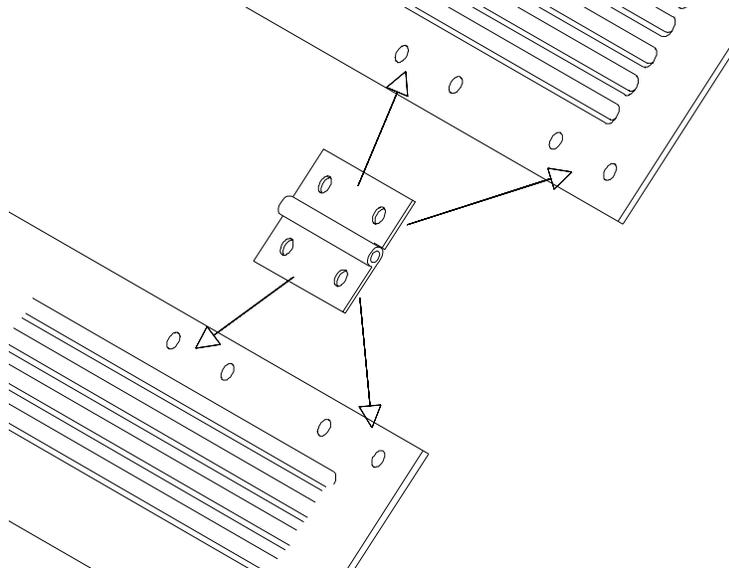
Install water pan and route water hose as illustrated.

14

Install new guard in press as shown using original guard hardware and mounting brackets (subject arrow).

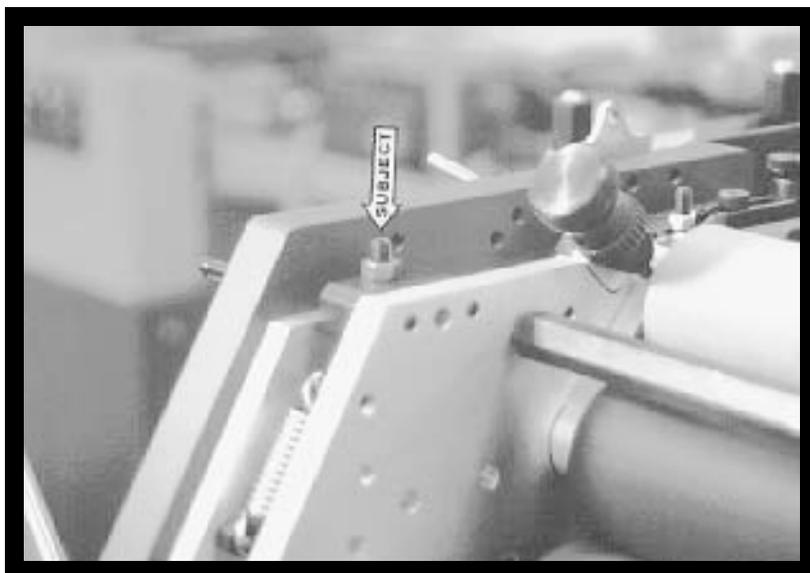
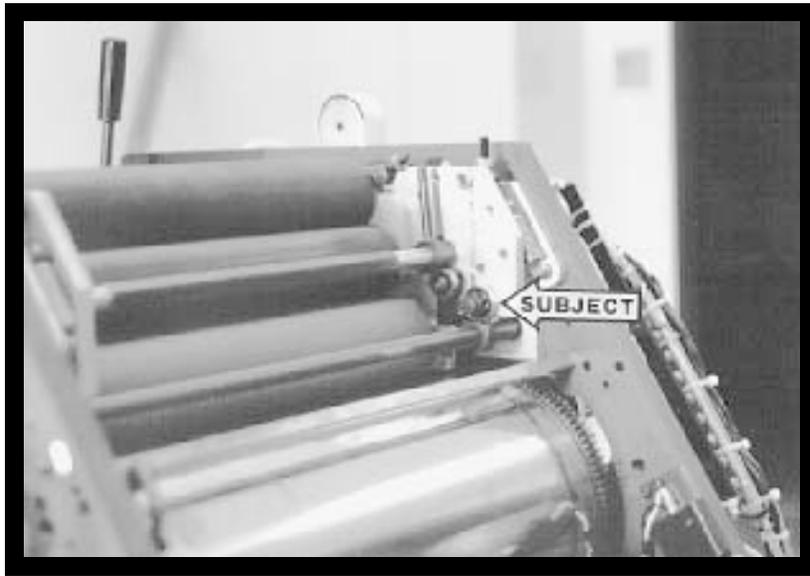
15

If the press is equipped with a satellite unit, remove the small guard attached to the original Hamada cylinder guard. Using the original hardware, reattach the small guard to the Accel dampener/cylinder guard. Originally, the hinges lined up with holes towards the outside edge of the guards (see illustration). However, Hamada has recently moved the hinges towards the center of the guard.



16

In order to accommodate both the old and new versions, additional holes have been added to the Accel dampener/cylinder guard. The guard has eight holes in it. Simply line up the proper hole positions with the small hinged guard from Hamada.



FINAL ADJUSTMENTS

1

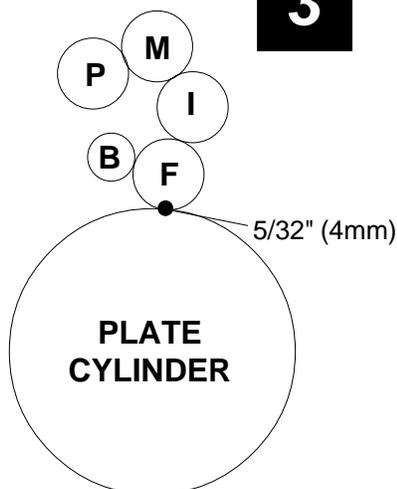
Mount a metal plate to the plate cylinder. With the single lever in the "Off" position, adjust the amount of lift of the water form off the plate. Lift is adjusted by changing the position of the eccentric cams on the dampener frame (subject arrow). Adjust each eccentric until there is an even .050 gap between the plate and form roller.

2

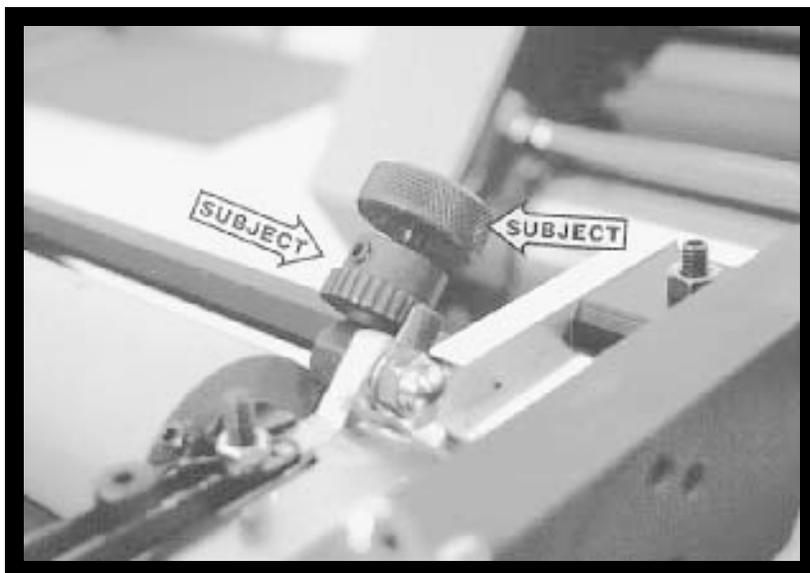
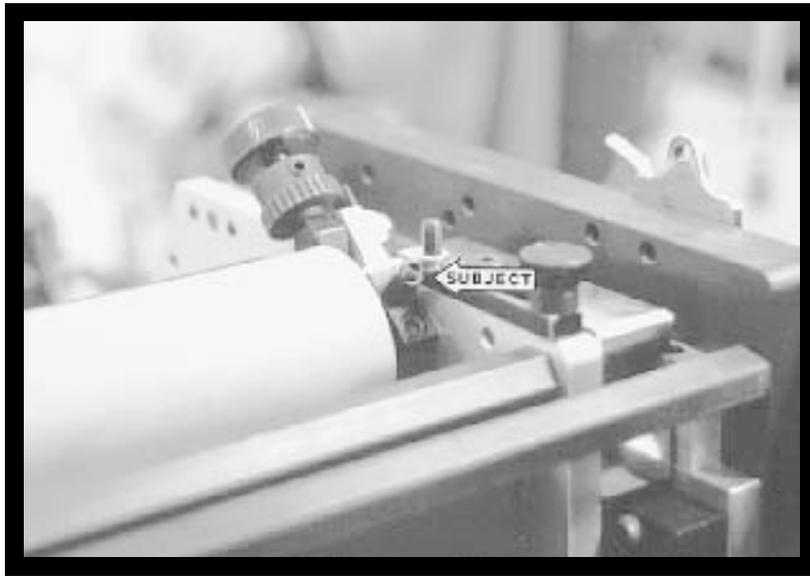
Dab ink on the dampener on a hard roller and turn the press by hand at first to distribute the ink. Slowly jog and run the press until the ink is distributed evenly on all the dampener rollers.

3

Water Form to Plate

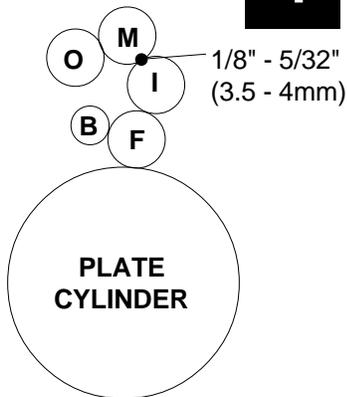


Drop the water form roller to the plate and check the stripe. It should be $\frac{5}{32}$ " (4mm). Adjust the stripe using the stop screws on the dampener frame (subject arrow). **Turning the screw down decreases the stripe.** Lock in place using lock nut.



FINAL ADJUSTMENTS

4



Metering to Intermediate

Check the stripe between the metering and intermediate rollers by dropping the water form to the plate and rotating the press backwards. (Clutches prevent dampener from turning backwards with the water form off the plate. Dropping the form to the plate allows the ink to drive the unit backwards.)

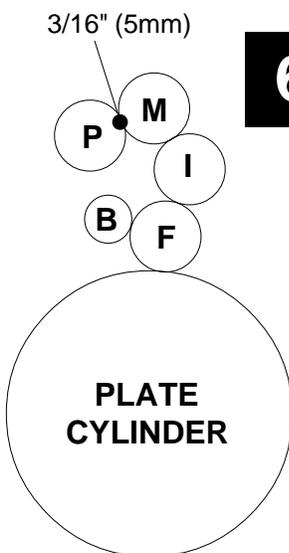
Stripe should be 1/8" - 5/32" (3.5mm - 4mm). Adjust by turning the screw on top of the hanger (subject arrow). **Turning the screw down increases the stripe.** Tighten lock nut when finished.

5

Intermediate to Form

This pressure is set automatically when setting the metering to intermediate in set 4 above.

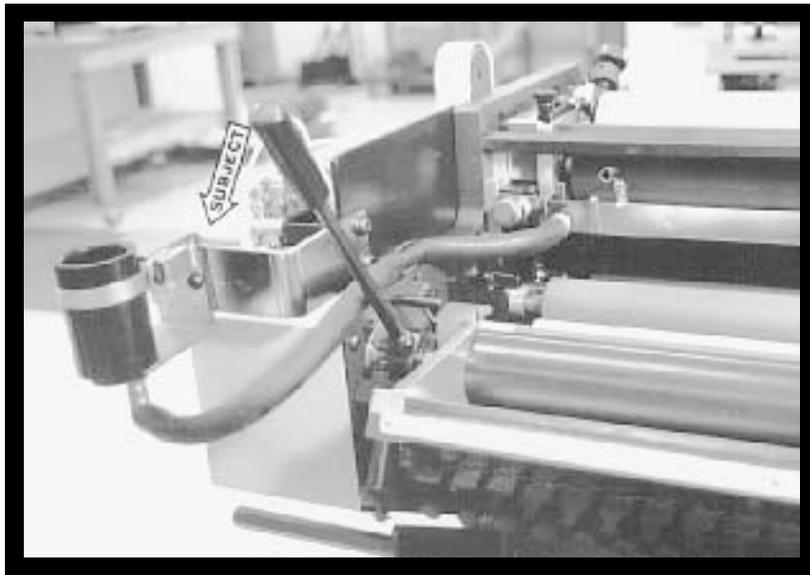
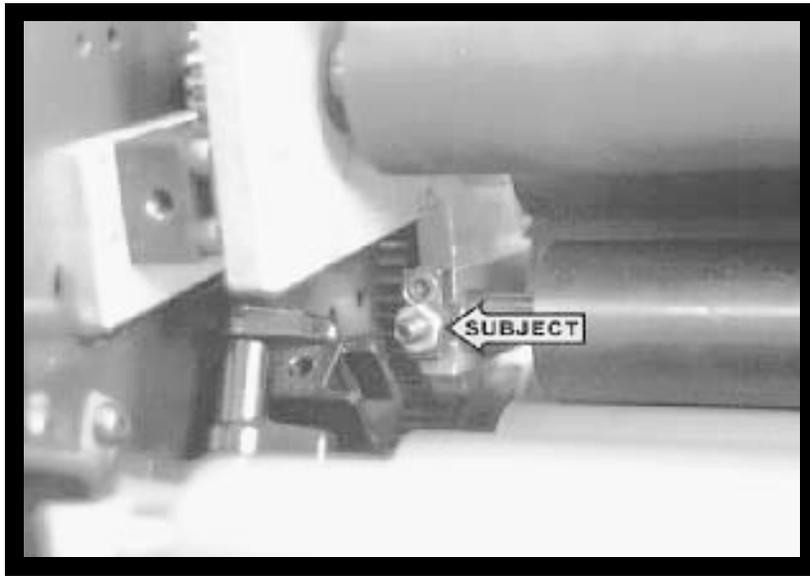
6



Metering to Pan

Jog the press forward and observe the stripe on the pan roller. It should be 3/16" (4.5mm - 5mm). **Turn the knurled metering knobs (right subject arrow) clockwise to increase the stripe.**

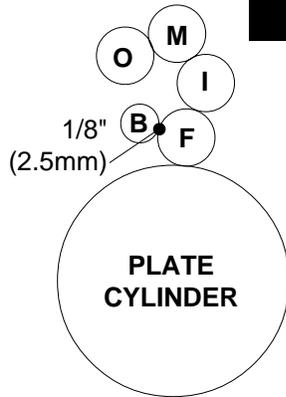
When the proper stripe has been obtained, spin the ratchet gears (left subject arrow) down until they bottom out on the stud and secure the ratchet gear to the knurled knobs with the set screws.



FINAL ADJUSTMENTS

7

Bridge to Water Form



Adjust the pressure by turning the adjusting screw (subject arrow) on the bridge roller cap. **Turning the screw in increases the stripe.** The stripe should be no more than 1/8" (2.5 mm) and even all the way across the roller. **Overpressuring the roller can cause the oscillating mechanism to fail.** Lock in place with lock nut.

The bridge roller is intended to make inking and washing up the dampener easier. See sections entitled "Start of Day" and "Wash Ups During The Day". The bridge should not be used during normal operation of the press.

8

Adjust water level in pan by raising or lowering the original water bottle mechanism.

BASIC OPERATION

START OF DAY

- A. Make sure all the rollers are in place.
- B. Spin knurled knobs until the ratchet stops.
- 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 by *engaging the bridge roller*. Bridge roller engages by rotating the levers at the OPS & NOPS towards the delivery end of the press, dropping the bridge onto the ink form roller. Disengage by pulling back on the levers until bearing on bridge roller drops into detent.
- 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® 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 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. Engage the bridge roller by rotating the levers at the OPS & NOPS towards the delivery end of the press, dropping the bridge onto the ink form roller.
5. Use wash up attachment as normal. When the press is clean disengage bridge roller by pulling back on the levers until bearing on bridge roller drops into detent.
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 press. 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 masters on a daily basis, the dampener should be deglazed at least once a week with Accel's **Compound X**, deep cleaner and deglazer. If using other plate materials, this should be done every 2 - 4 weeks.

ACCEL RECOMMENDS AVOIDING DEGLAZERS CONTAINING PUMICE OR GRITTY SUBSTANCES.

Avoid washes that are extremely fast drying. Crestline®'s form and pan 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!

OILING AND GREASING THE DAMPENER

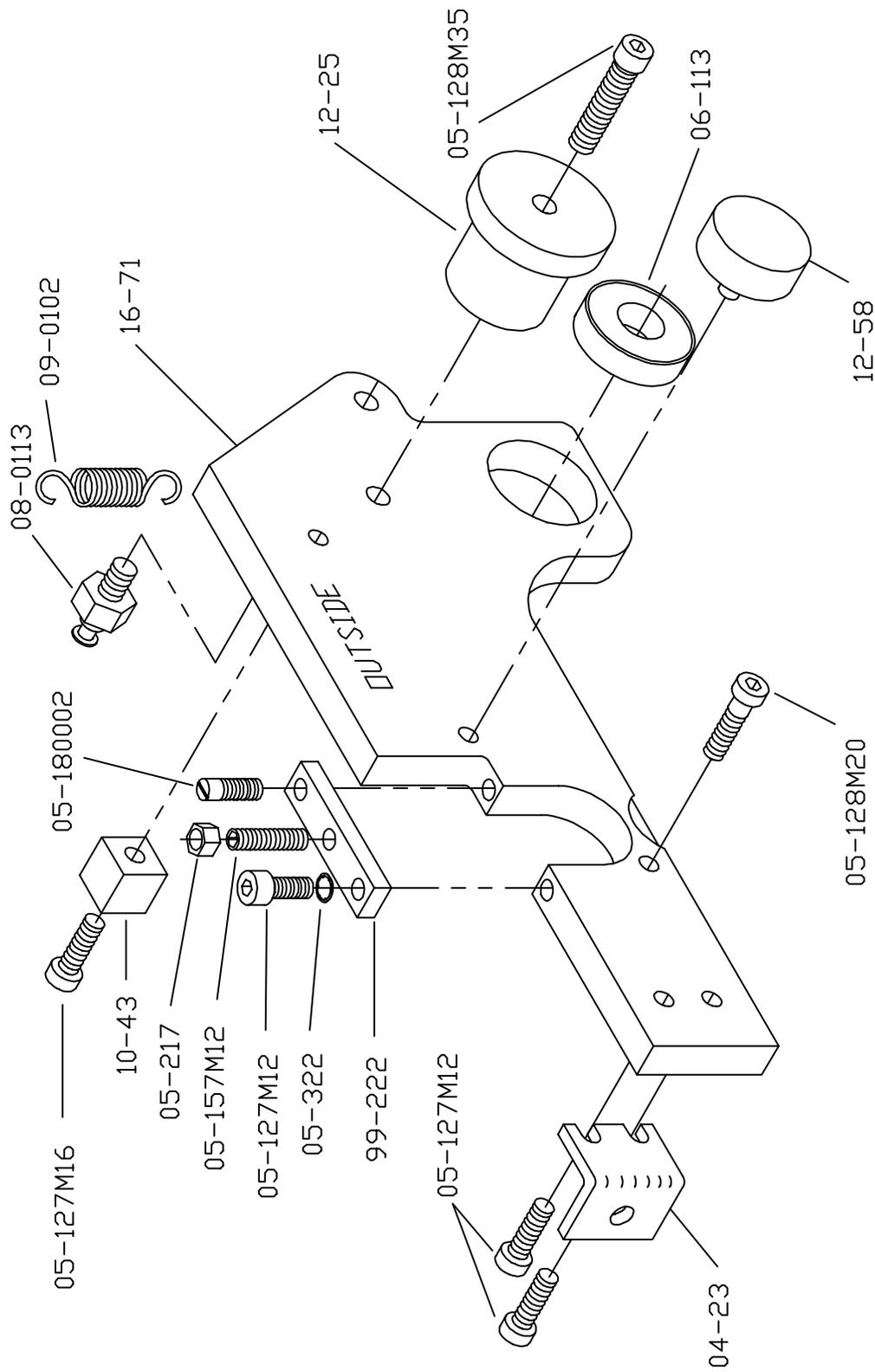
- A. Place a small amount of grease on the gears once a month.
- B. Inject grease into the oscillator grease fitting once a month.

CLEANING & MAINTENANCE

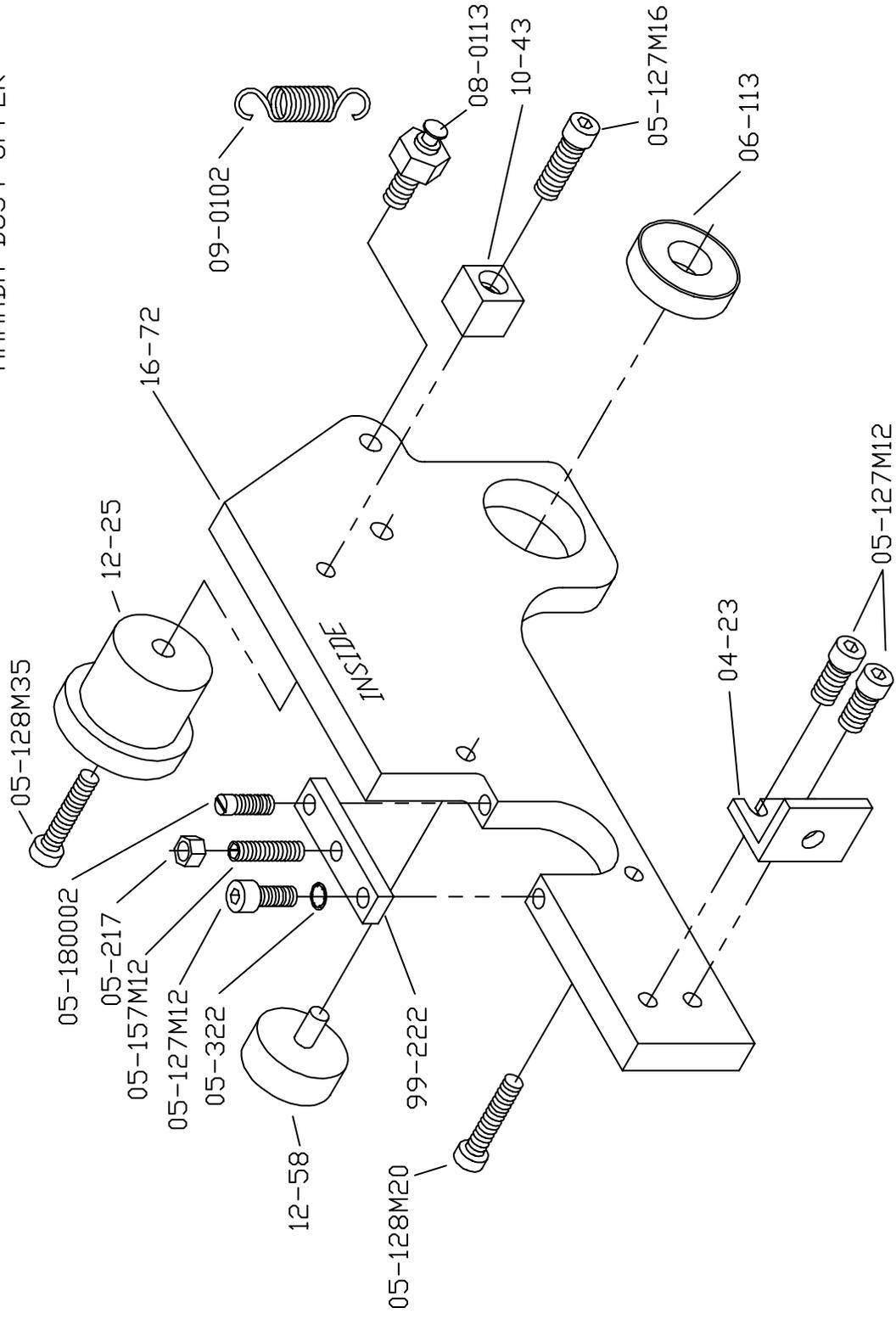
CRESTLINE® CLEANING & MAINTENANCE CHART

	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				✓

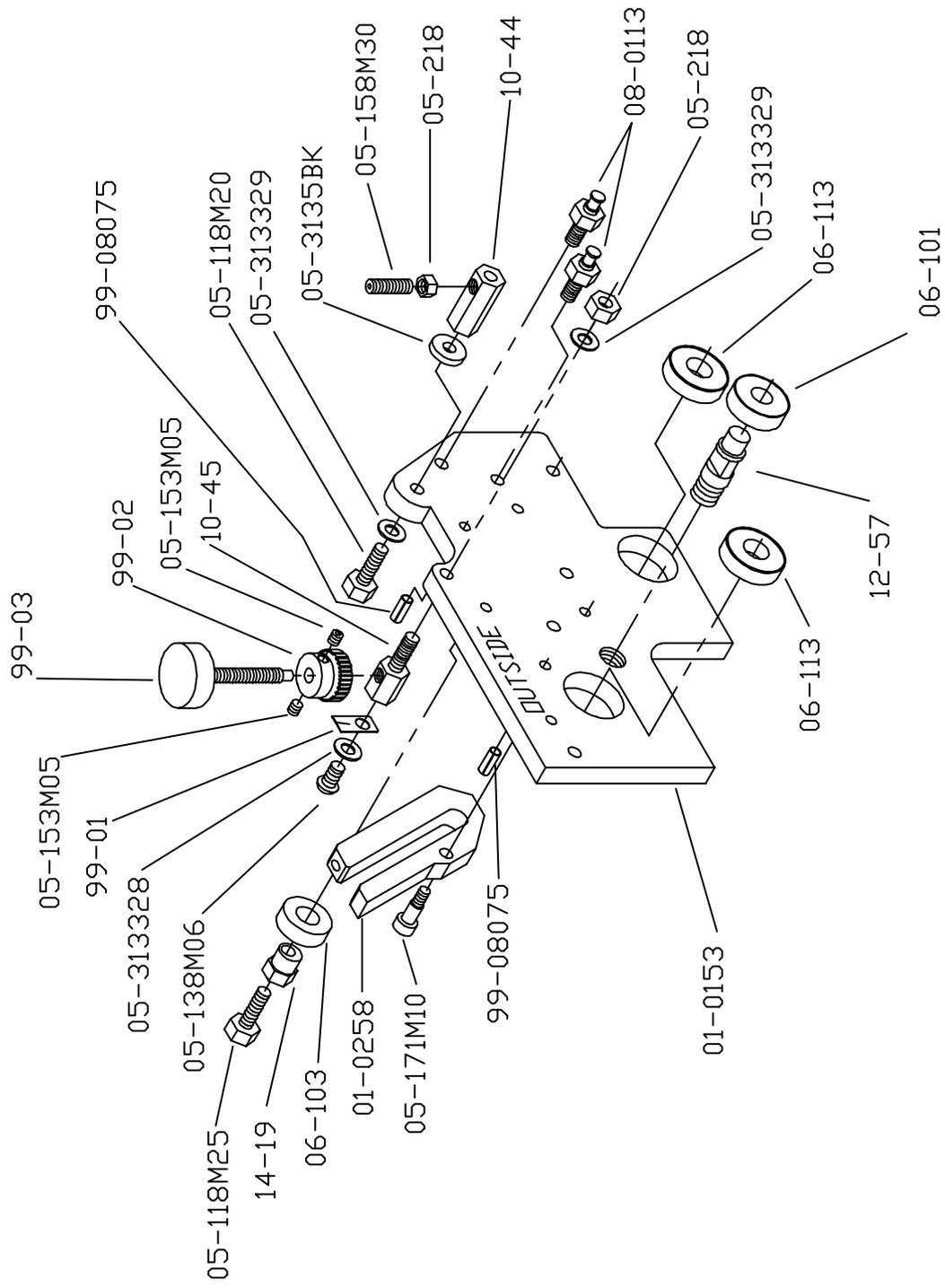
DPS MOUNTING FRAME ASSEMBLY
HAMADA RS34 PARENT
HAMADA VS34 PARENT
HAMADA DU34 UPPER



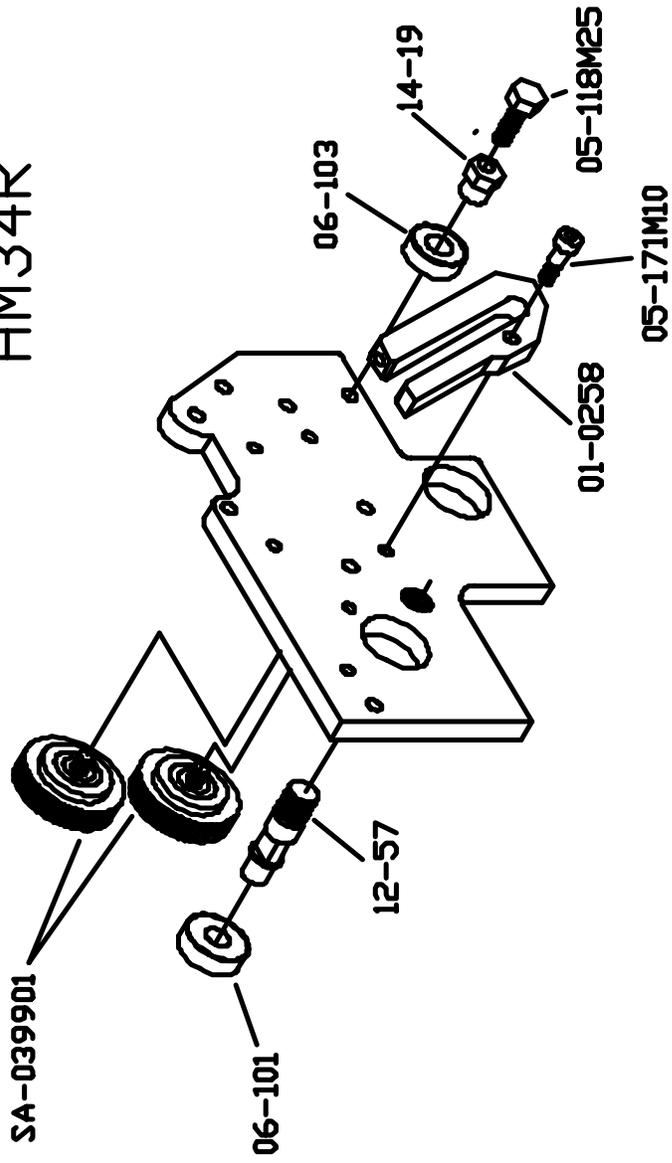
NDPS MOUNTING FRAME ASSEMBLY
 HAMADA RS34 PARENT
 HAMADA VS34 PARENT
 HAMADA DU34 UPPER



DPS DAMPENER ASSEMBLY
HAMADA RS34 PARENT
HAMADA VS34 PARENT
HAMADA DU34 UPPER

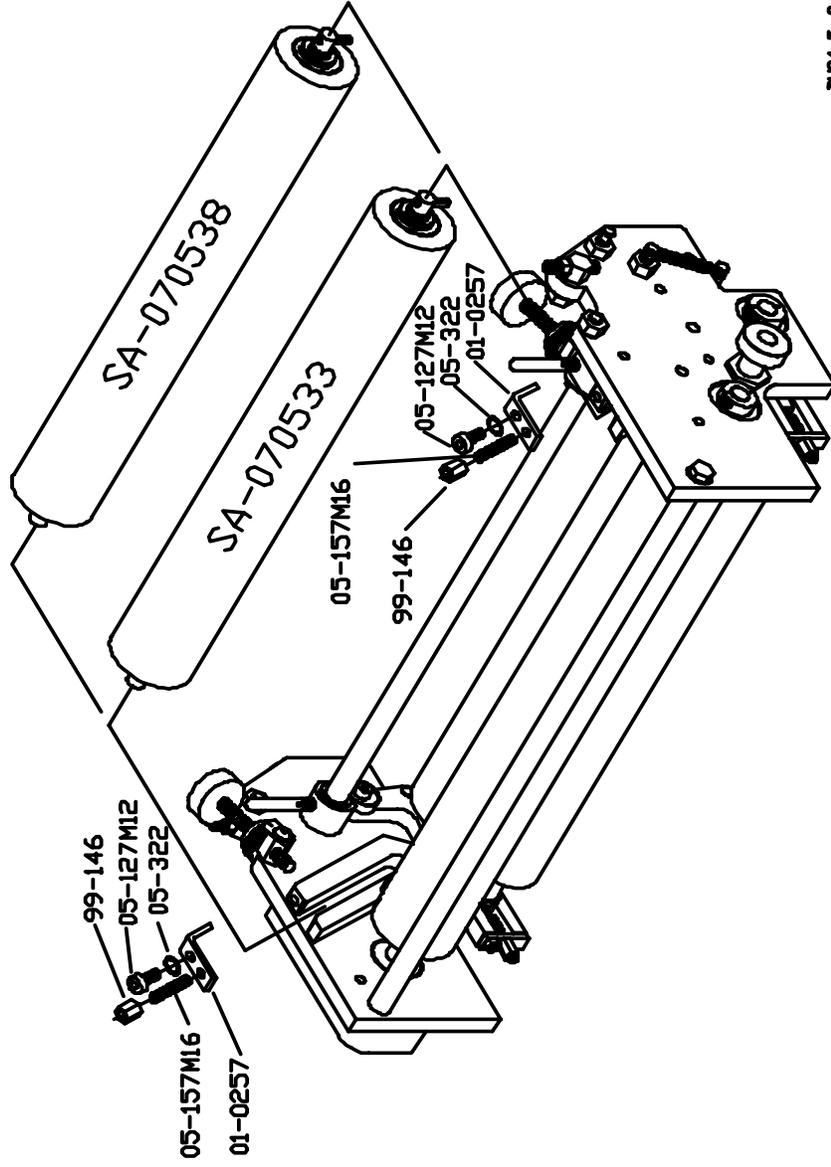


HM34R

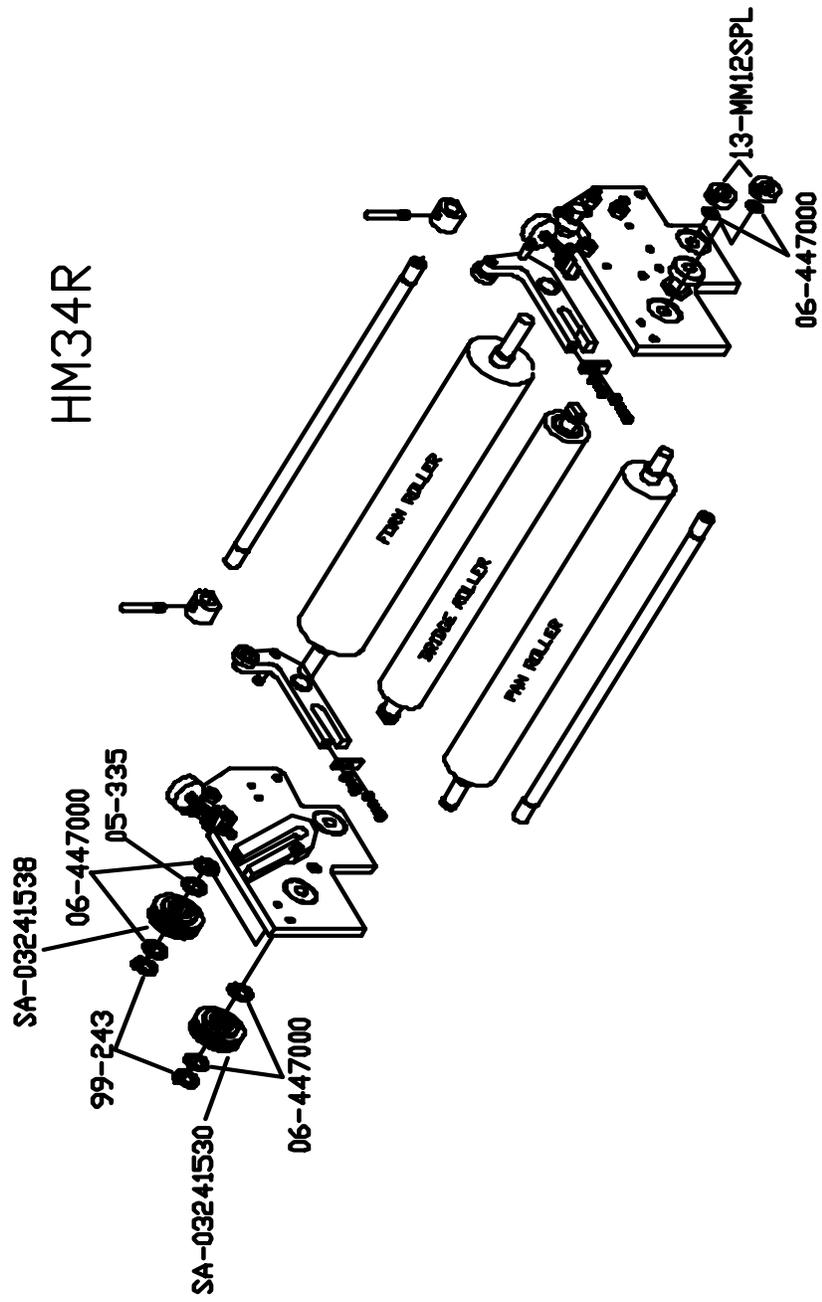


HM34-4, B-96

HM34R

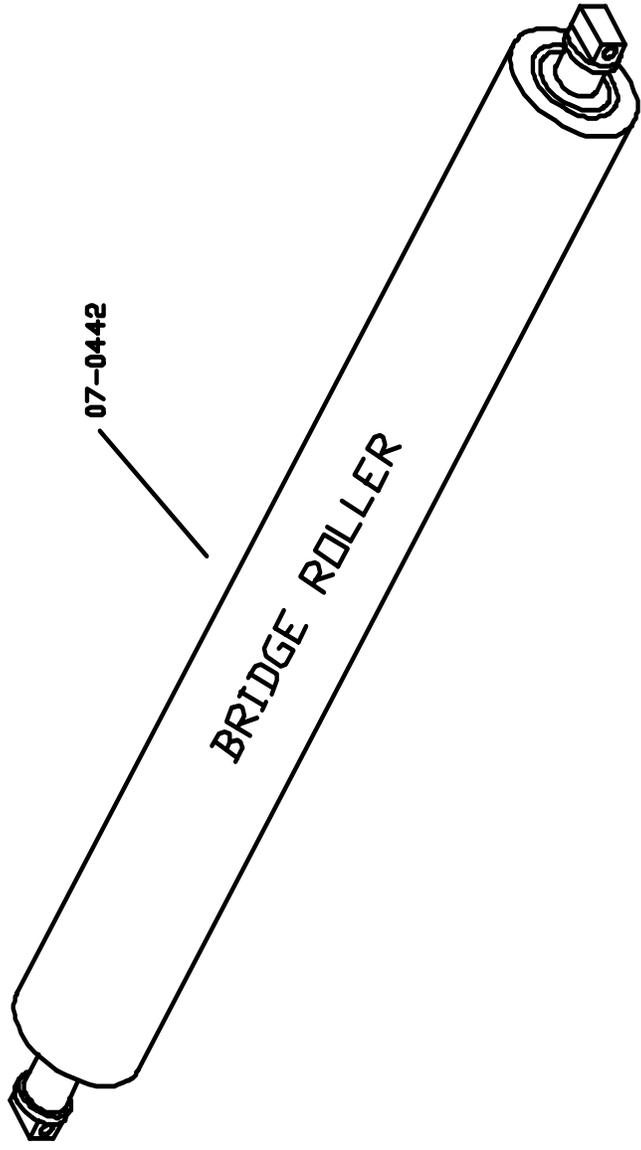


HM34R



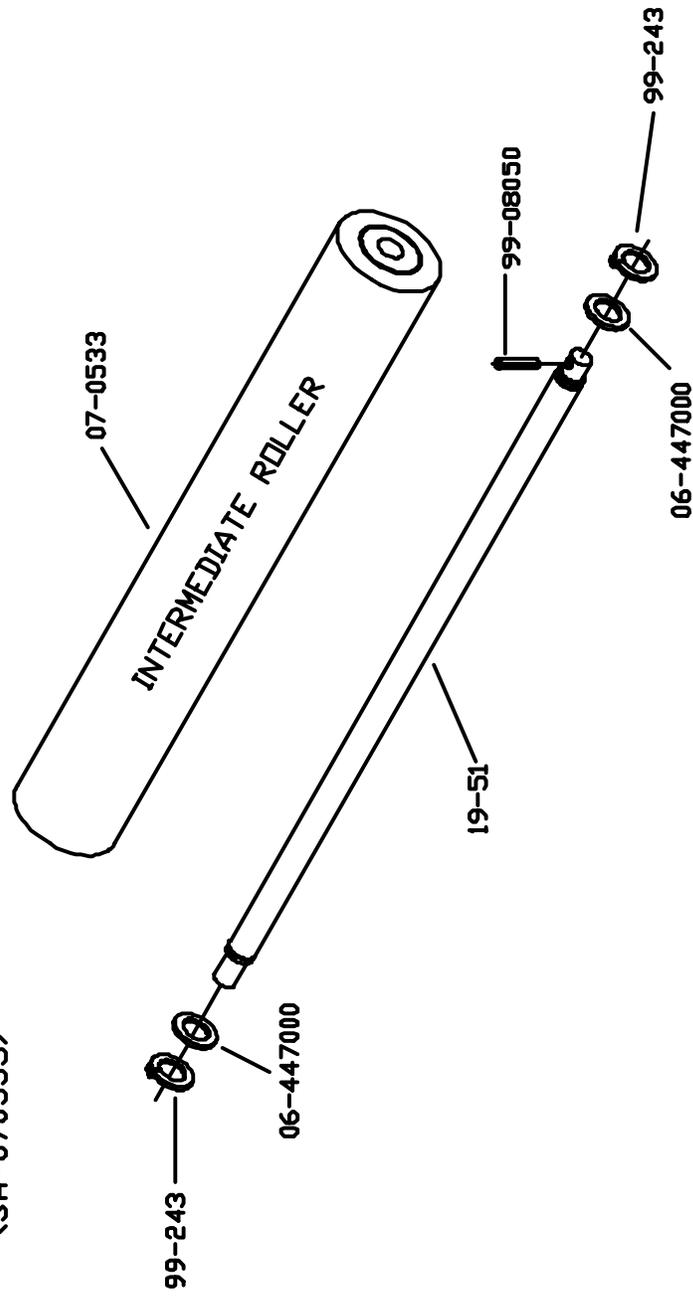
HM34-6, 2-27-97

HM34R



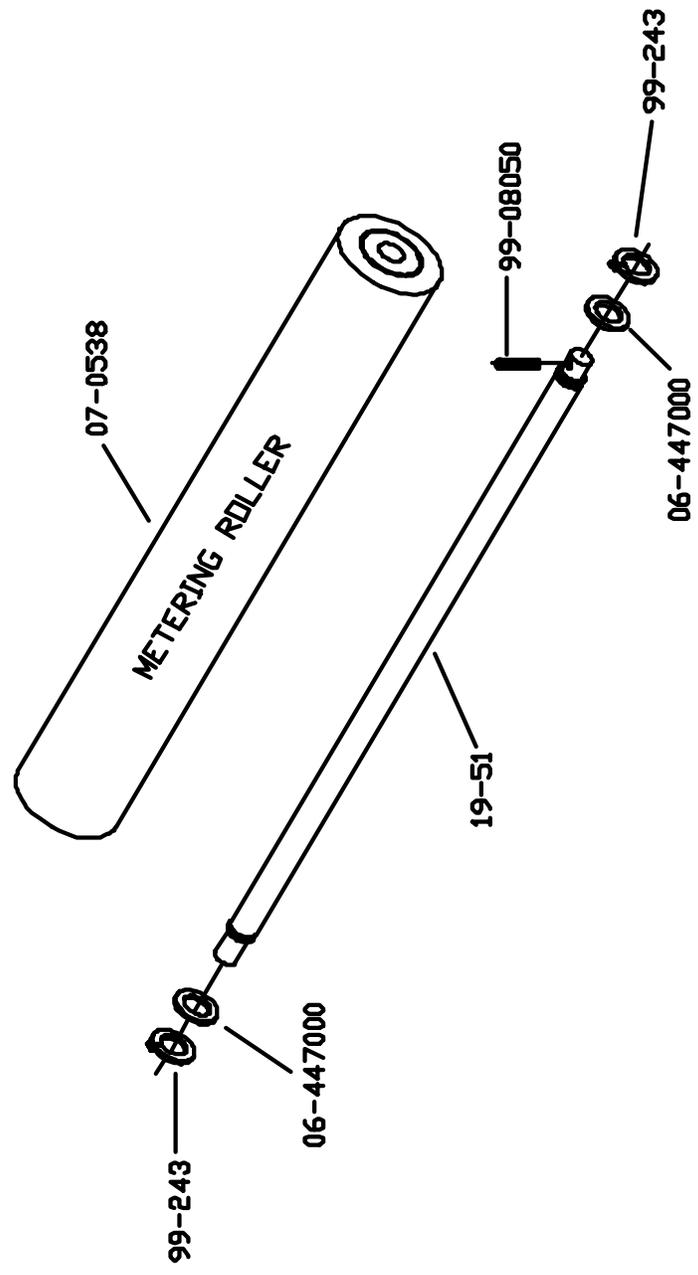
HM34R-7, 8-06

HM34R
(SA-070533)



HM34-R, 8-76

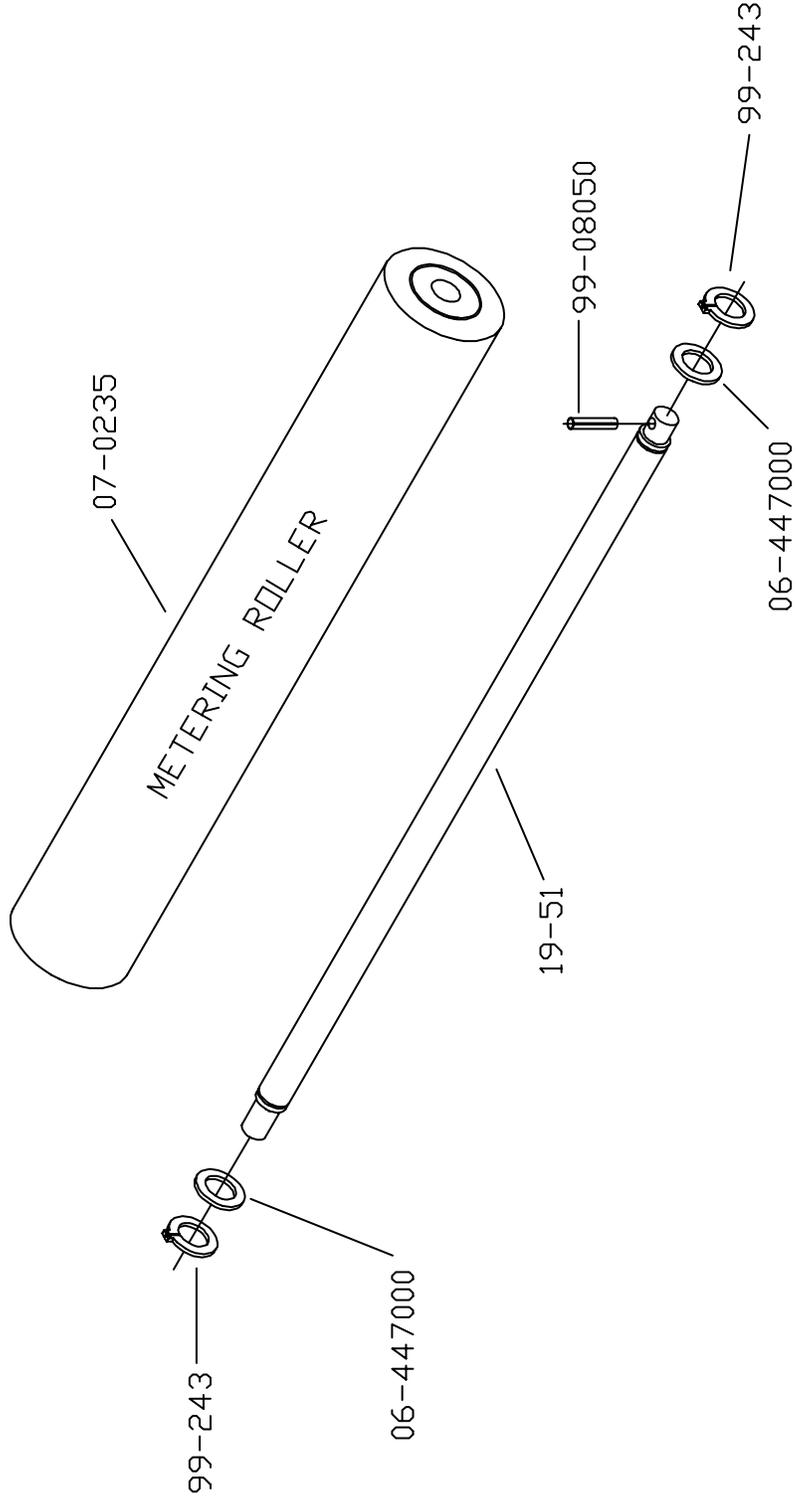
HM34R AND HM34R INTEGRATED (SA-070538)



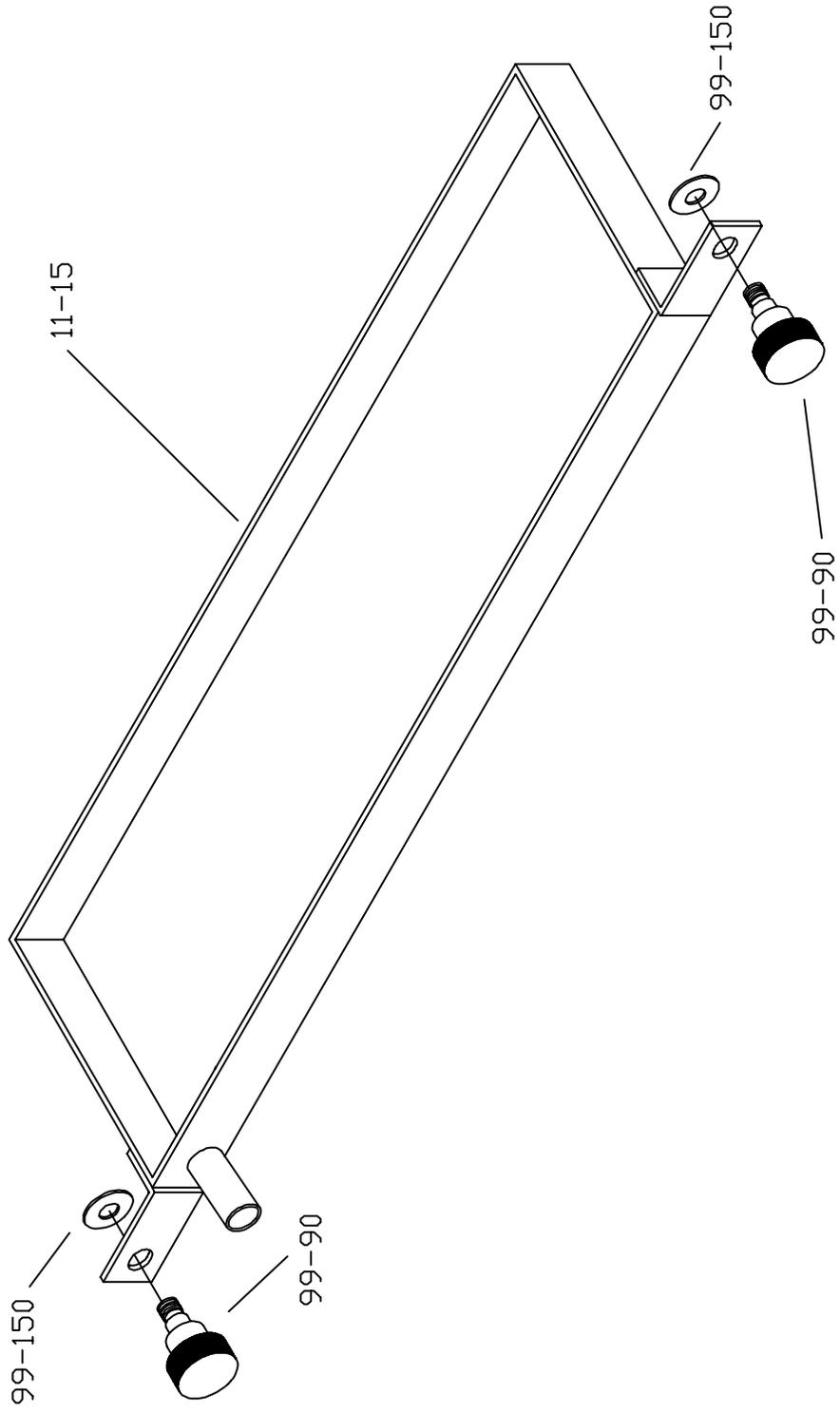
METERING ROLLER ASSEMBLY (SA-070235)

HAMADA RS34 PARENT
HAMADA VS34 PARENT
HAMADA DU34 UPPER

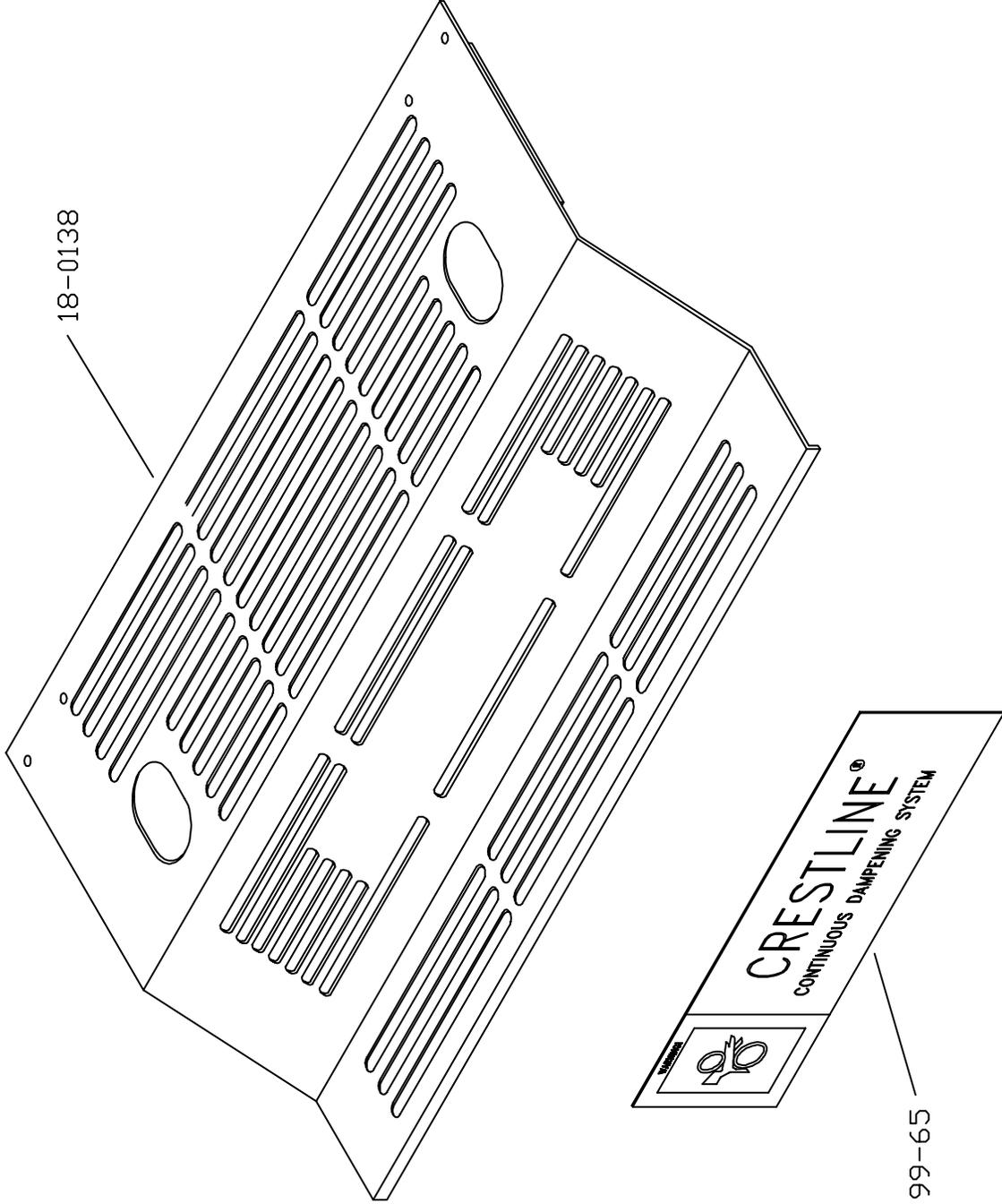
J MODEL ONLY



WATER PAN ASSEMBLY
HAMADA RS34 PARENT
HAMADA VS PARENT
HAMADA DU34 UPPER

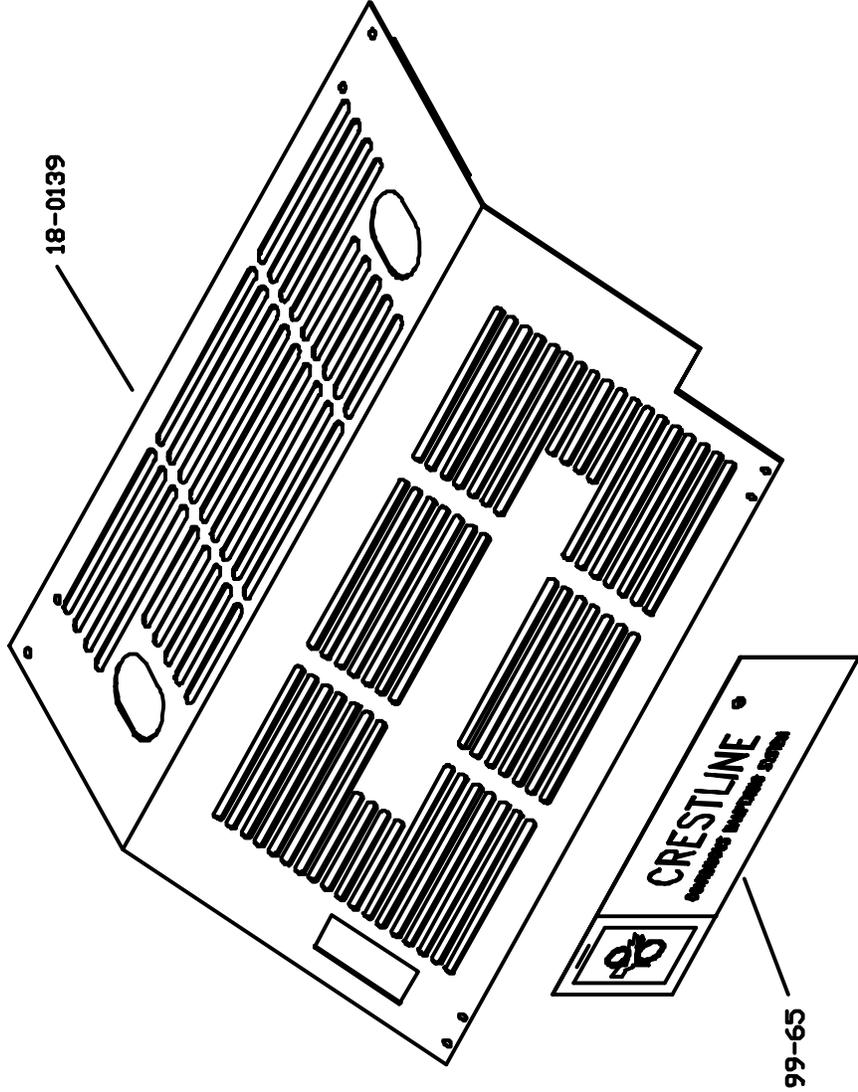


DAMPENER GUARD
HAMADA DU34 UPPER



DU34-12, 6/96

HM34R



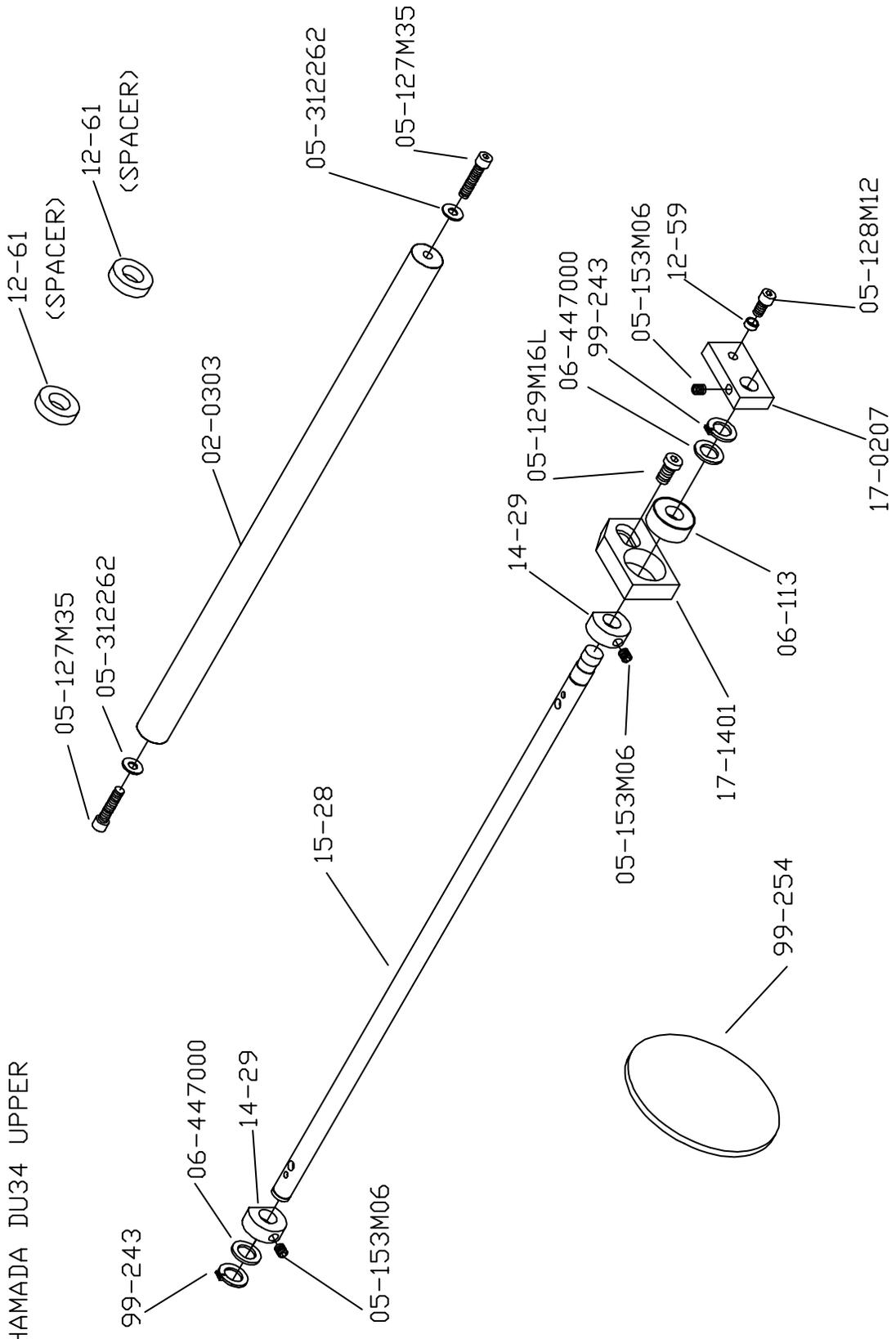
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99-65

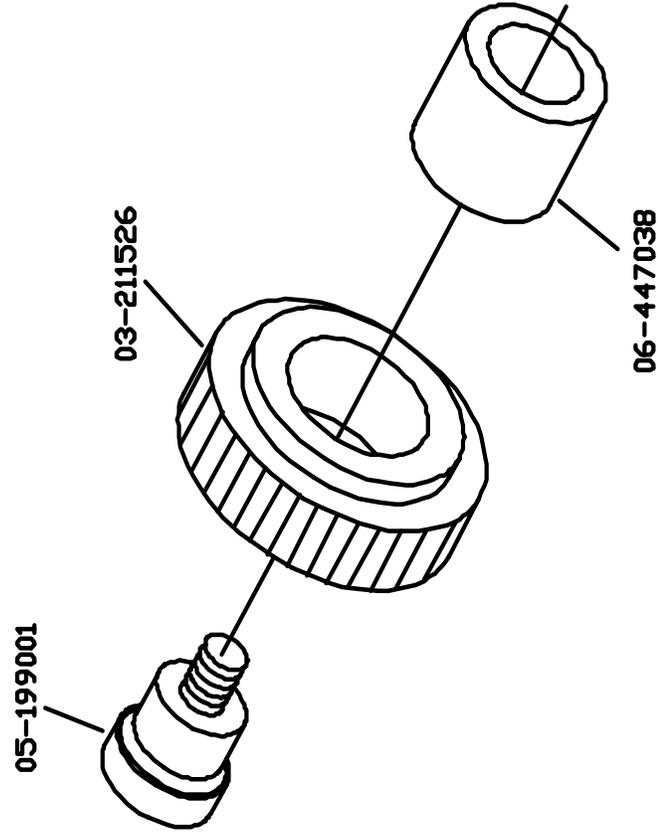
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LIFT SHAFT ASSEMBLY AND PRESS TIE BAR

HAMADA RS34 PARENT
 HAMADA VS34 PARENT
 HAMADA DU34 UPPER



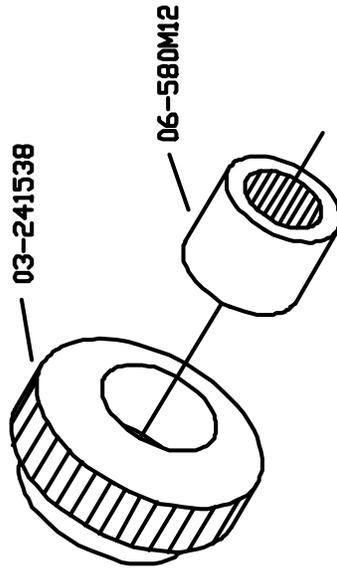
HM34R AND HM34R INTEGRATED (SA-0399001)



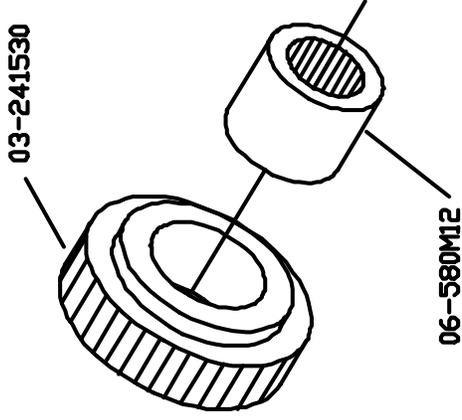
2034-14, 8-96

HM34R AND HM34R INTEGRATED

FORM ROLLER (SA-03241538)

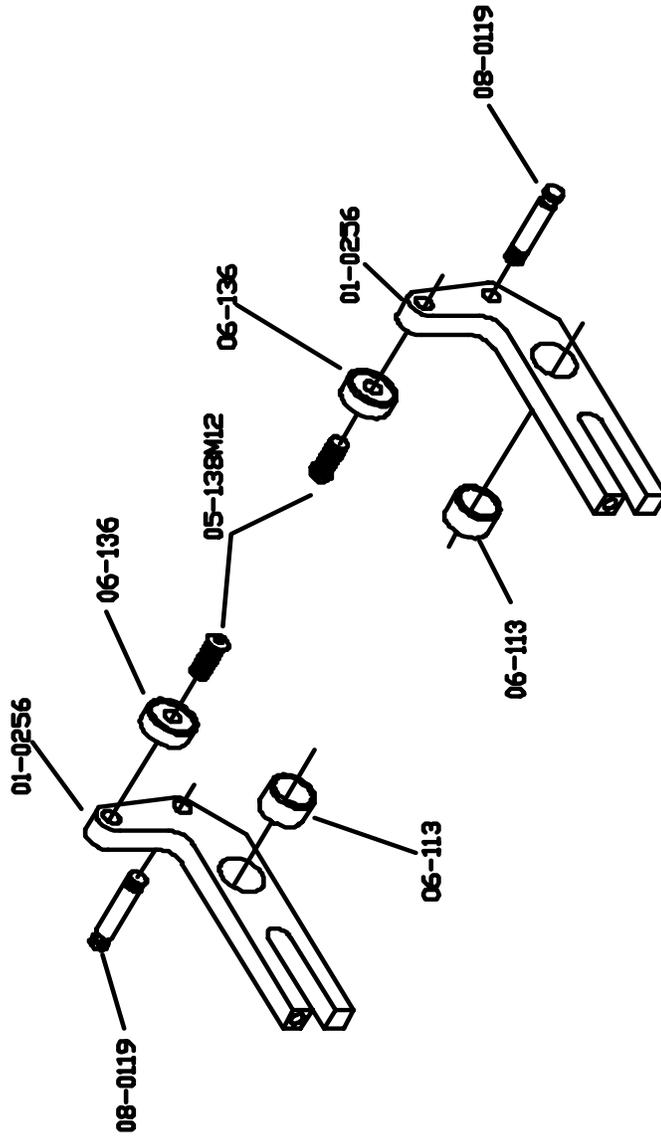


PAN ROLLER (SA-03241530)



DU34-15, 8-96

HM34R AND HM34R INTEGRATED





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