

# Crestline<sup>®</sup> Dampening System

## Installation Instructions

### Hamada C252

For Presses Originally Equipped With  
Molleton Dampeners



*A Pamarco Technologies Inc. Company*

X88-88  
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:**

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

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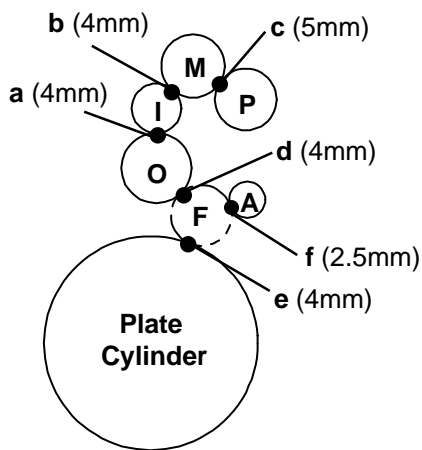
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## **SAFETY INFORMATION**

**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.	Intermediate to Oscillator
b.	Metering to Intermediate
c.	Metering to Pan
d.	Oscillator to Form
e.	Form to Plate
f.	Form to Auxiliary Rider

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

## TERMINOLOGY

OPS = Operator's Side

NOPS = Non Operator's Side

## TECHNICAL ASSISTANCE

For technical assistance, please contact:

**ACCEL GRAPHIC SYSTEMS**  
11103 Indian Trail  
Dallas, TX 75229  
PHONE (972) 484-6808  
FAX (800) 365-6510  
E-MAIL [accel@dallas.net](mailto:accel@dallas.net)  
WEB SITE [www.accelgraphicsystems.com](http://www.accelgraphicsystems.com)

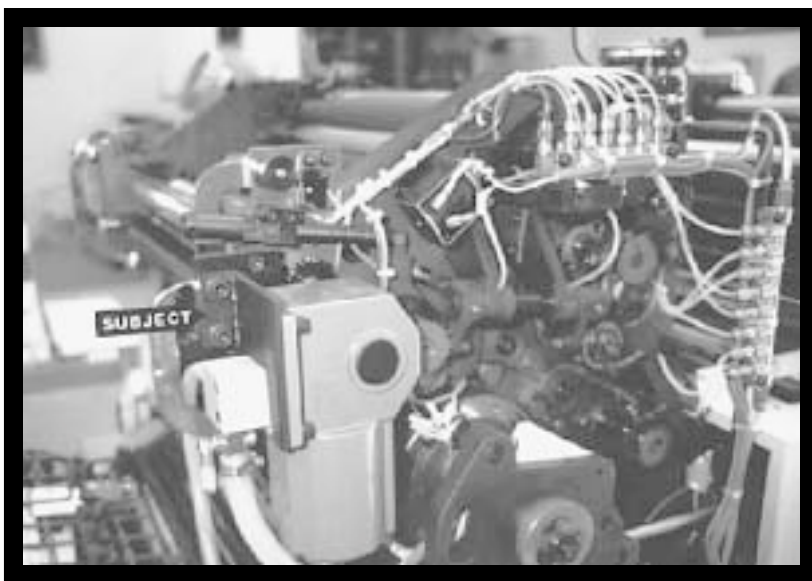
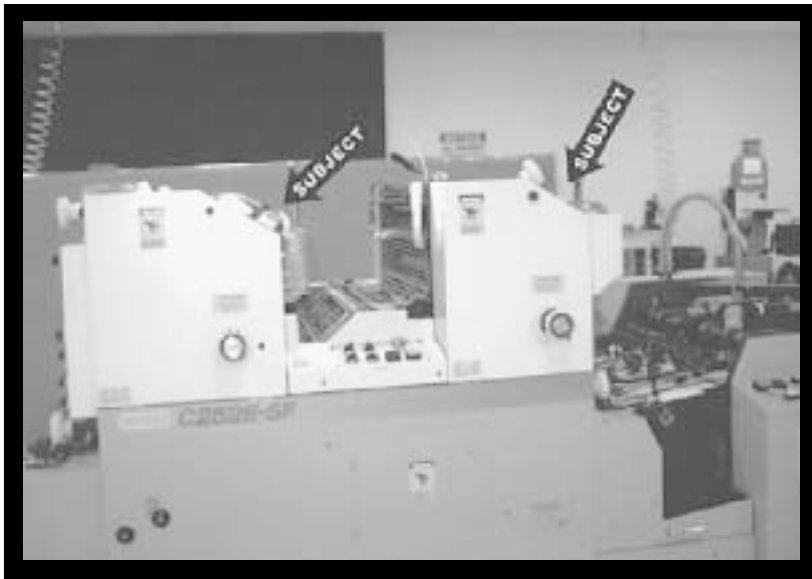
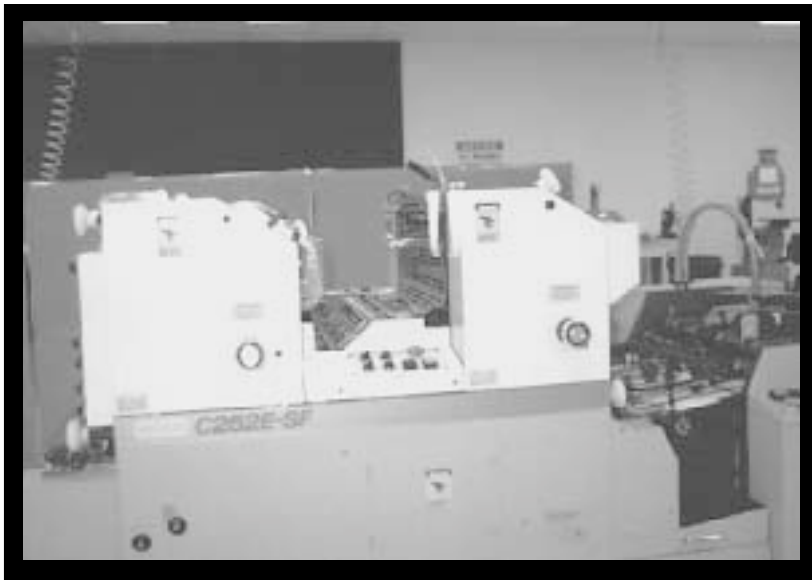
Crestline® is covered by U.S. Patents and Patents Pending

# GENERAL INFORMATION

- REQUIRED TOOLS**
1. Drill
  2. Standard Screwdriver
  3. 8 mm Open End
  4. 10 mm Open End
  5. 13 mm Open End
  6. 2.5 mm Allen Wrench
  7. 3 mm Allen Wrench
  8. 4 mm Allen Wrench
  9. 5 mm Allen Wrench
  10. 6 mm Allen Wrench
  11. 2.5 mm Punch
  12. 4 mm Punch
  13. 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 had 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**

Remove all upper side covers at OPS and NOPS. Remove molleton rollers and water pan from existing dampener.

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**2**

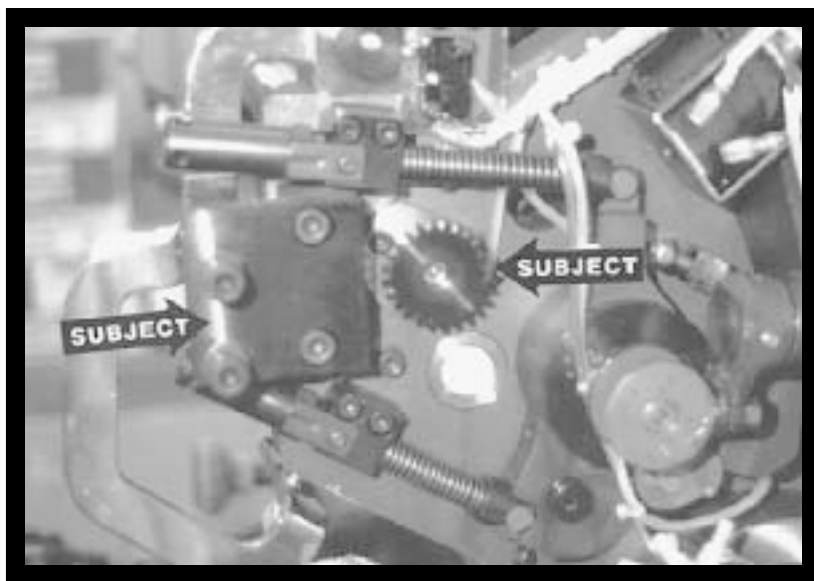
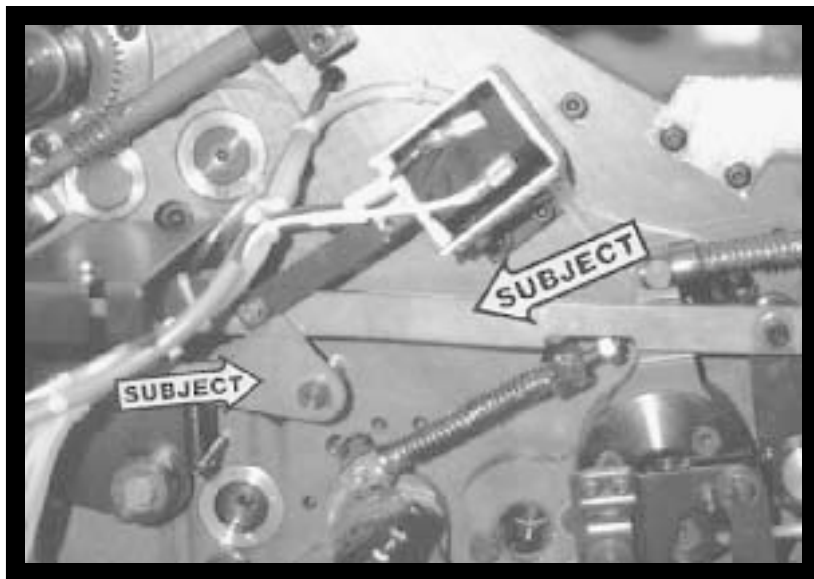
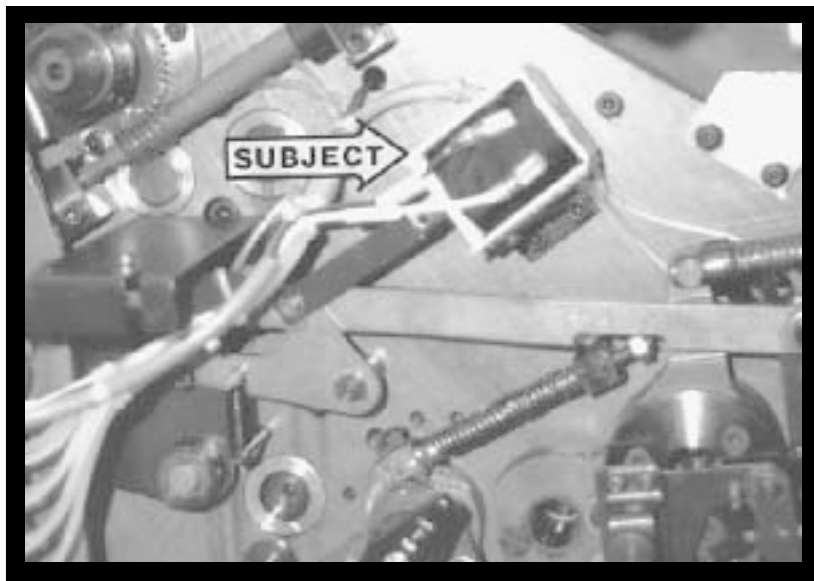
On #1 unit, remove cylinder guard, top inker guard, and drip tray. Remove mounting block and trip rods. Save for reinstallation. On #2 unit, remove large dampener guard, along with chrome mounting arms. Save hardware and arms for reinstallation.

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**3**

Cut wires to dampener motor. Remove motor and mounting bracket. Secure wires with wire nuts provided.

**7**





## DISASSEMBLY

**4**

Disconnect wires from ductor solenoid and remove solenoid assembly.

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**5**

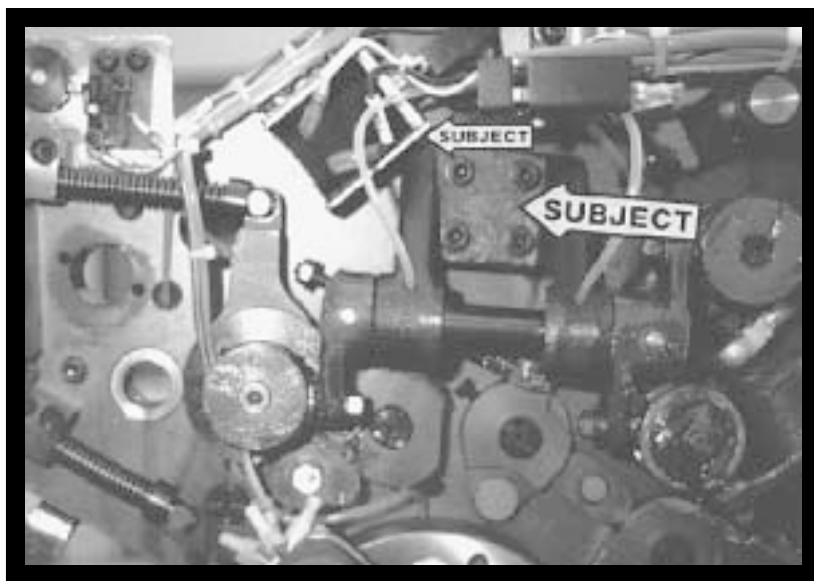
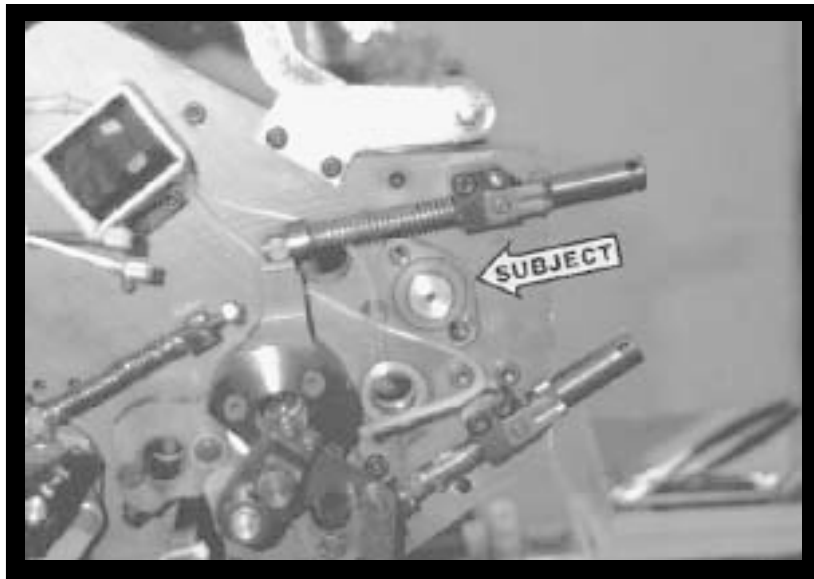
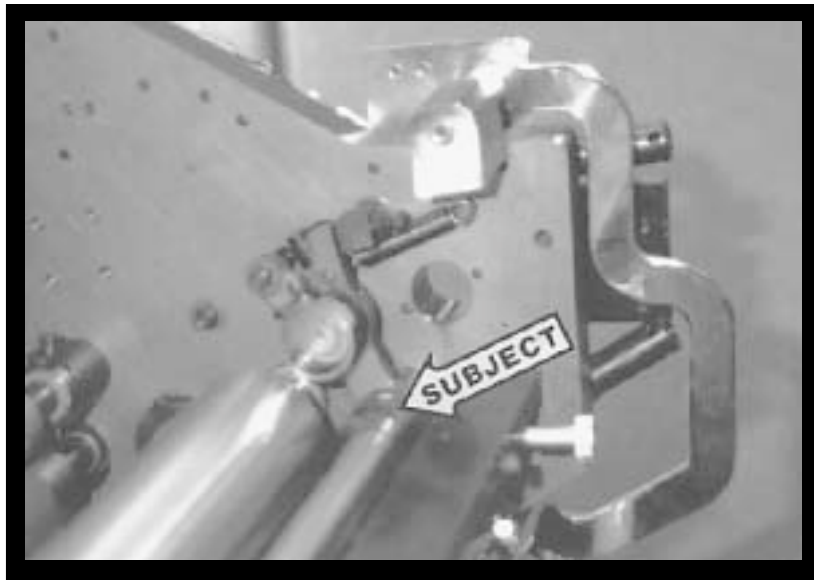
Remove E-rings from ductor links and remove links. (Photo shows solenoid still in place.)

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**6**

At NOPS, remove block (left subject arrow). Remove gear from water fountain roller. Remove NOPS bushings. Remove fountain roller.

**9**



## DISASSEMBLY

7

Remove springs from ductor arms. Punch out pins in ductor arms (from non-threaded side.) Loosen set collars on shaft. Pull out shaft through OPS frame. (Pieces will come off end of shaft.) At OPS and NOPS, remove ductor stop.

**Note:** pins in ductor arms may be difficult to remove if punch is not properly aligned.

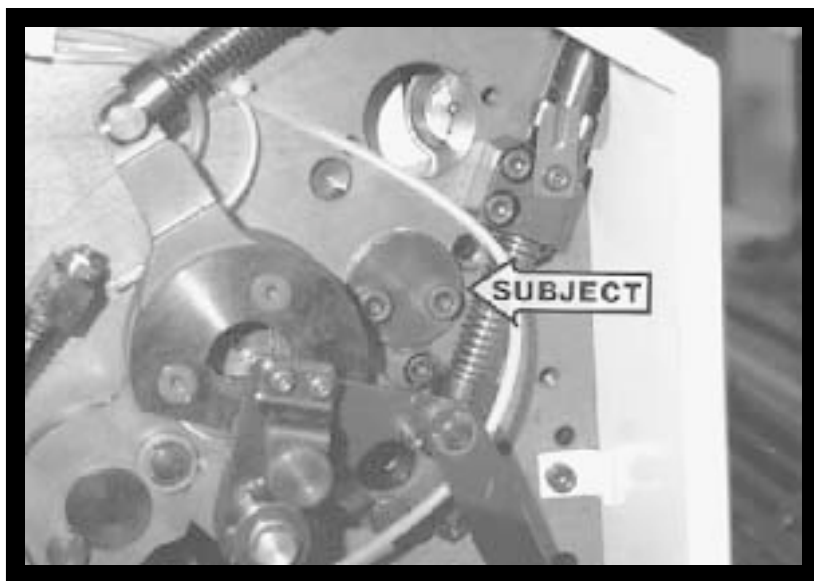
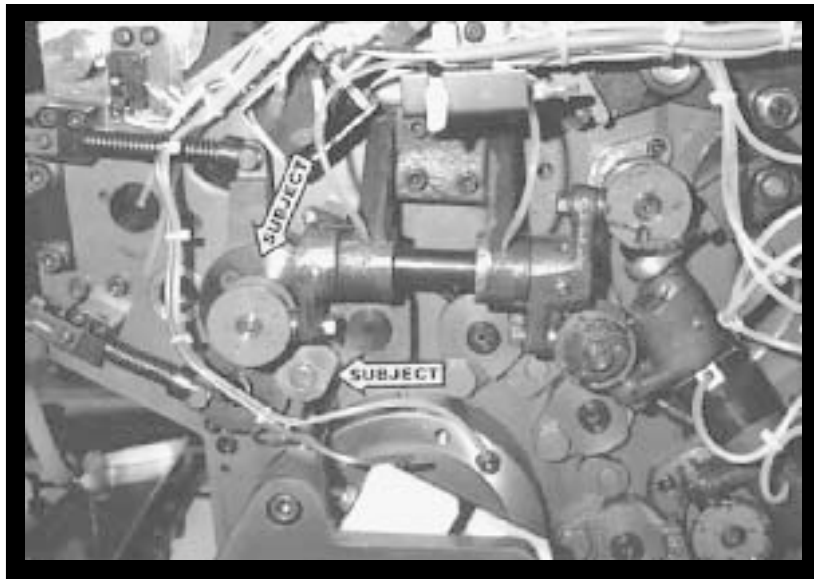
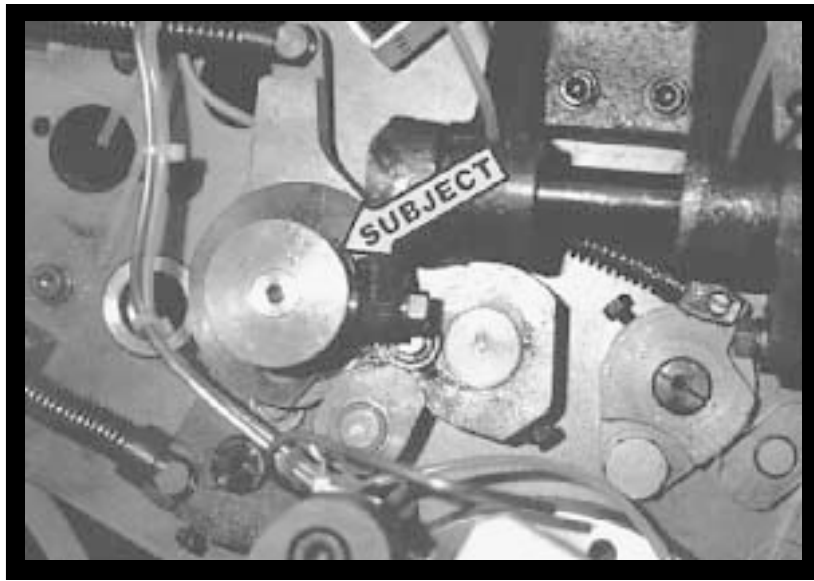
8

Remove OPS fountain roller bushings.

9

At NOPS, remove screws in ink ductor solenoid and let solenoid hang freely. Remove four screws in oscillator drive assembly and pull assembly out. Save hardware and drive assembly for reinstallation.

11



## DISASSEMBLY

10

Remove water oscillator spool by punching out pin. (Photo shows drive assembly still on press.)

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11

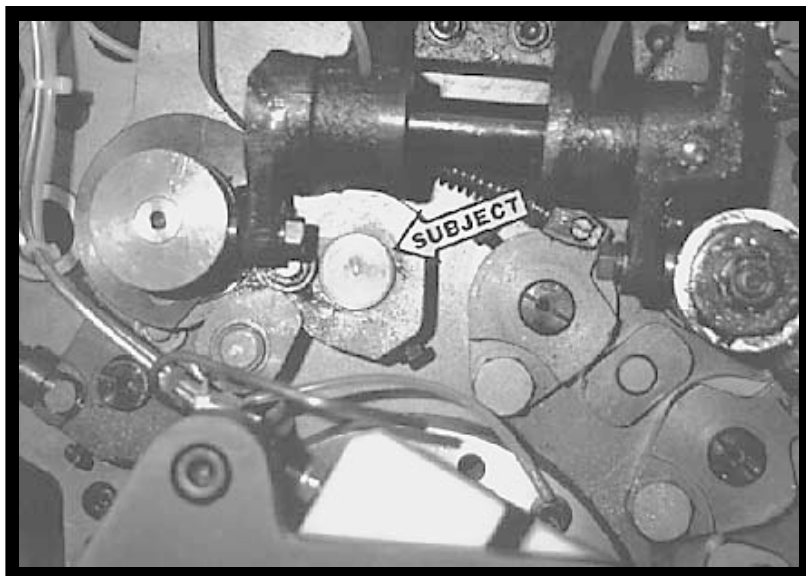
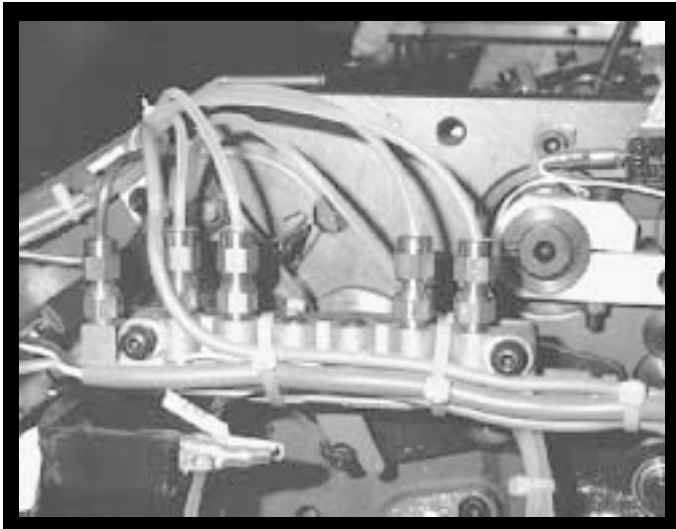
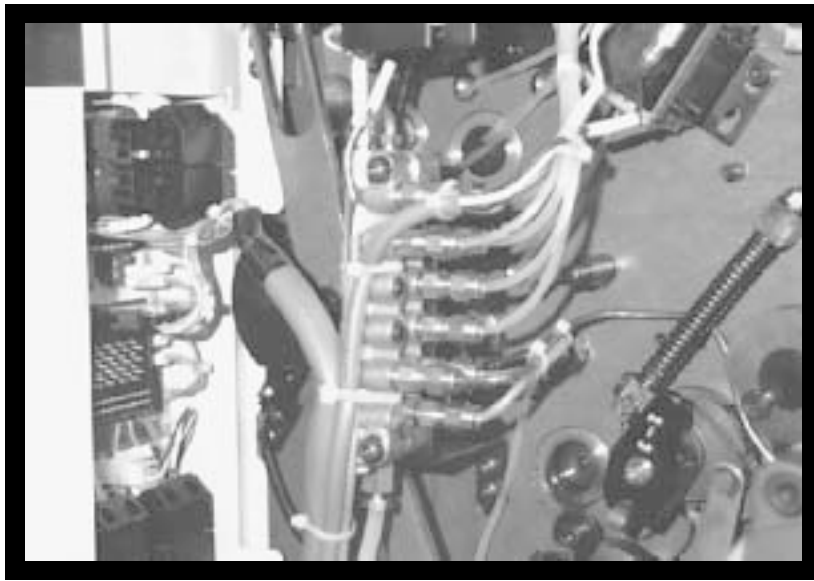
Remove tab on inside of press frame that secures oscillator bushing (not shown). Take off cover plate on oscillator housing. Thread two screws into housing and pull housing out. (Bushing can not be removed if lift cams are not clear. Use T-wrench from press to rotate lift arms.) If bushing only comes out part of way, a lift cam is still blocking it, probably inner one.

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12

**On #2 unit only:** relocate existing tie bar to position shown using provided hardware.

13



**13**

On OPS and NOPS, remove unused oil lines and plug with set screws provided.

**Note: Top photo shows OPS #1 and #2  
Middle photos show NOPS #1 and #2**

Check all remaining oil lines for proper position.

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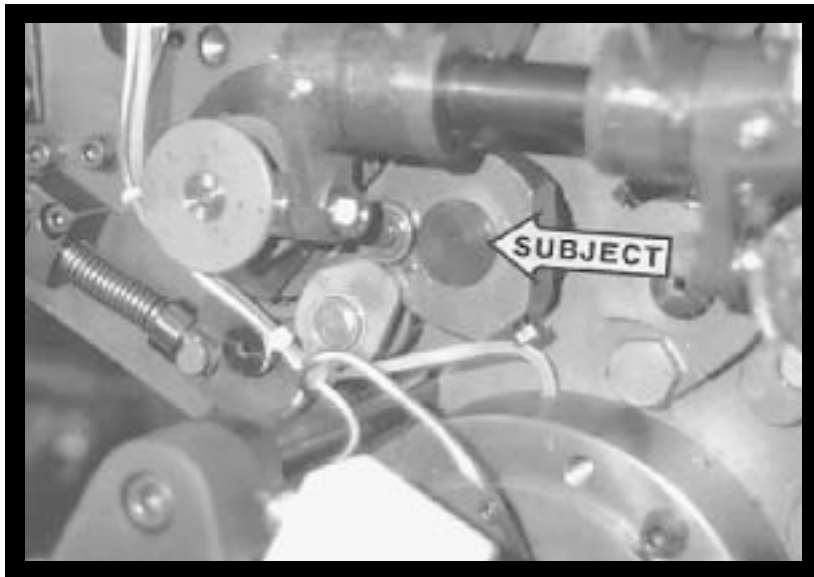
**14**

Remove form roller locating studs (bottom photo).

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**You are now ready to install Crestline®.**

**15**





# INSTALLATION

**1**

Reinstall water oscillating roller. Follow steps 9 to 11 from Disassembly section in reverse order.

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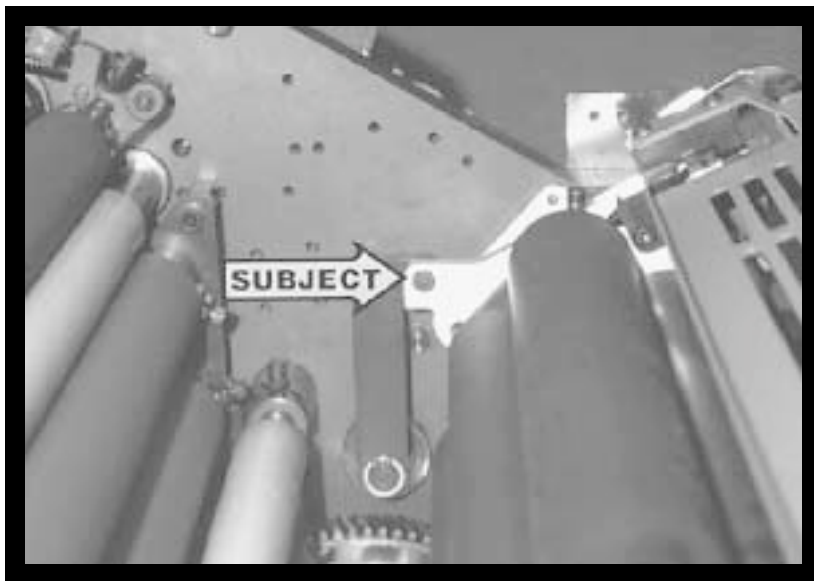
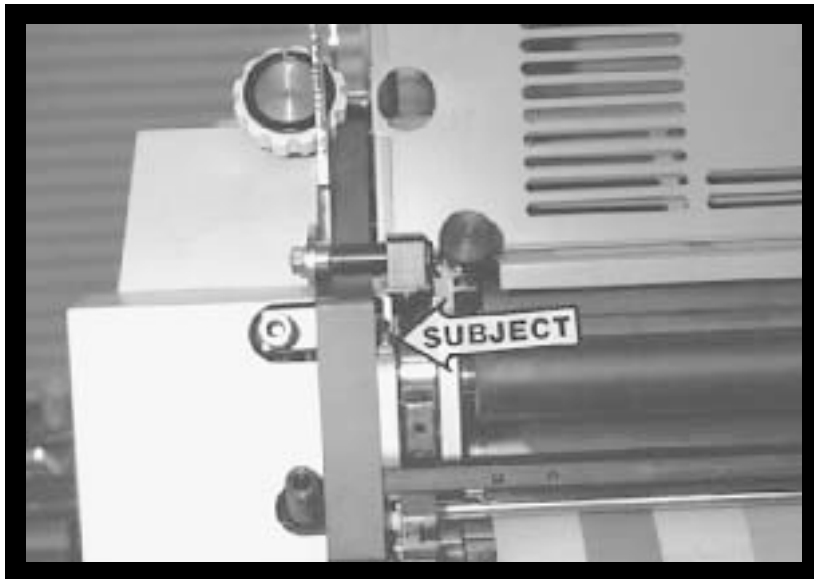
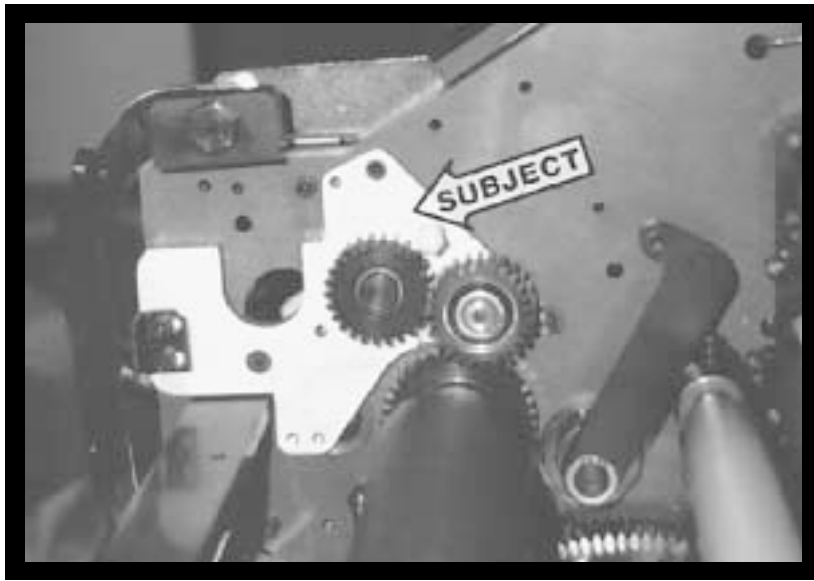
**2**

At OPS and NOPS, insert lift pins. Slide pin through until flange bottoms out on water form hanger. On NOPS, secure with existing hex bolt. On OPS, secure with existing flat head, slotted bolt.

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**3**

At OPS and NOPS, install lift arms on previously installed lift pins. Secure with set collar provided. Note: be sure threaded hole on top side of lift arm is pointed toward feeder. (Photo shows arm retained by snap ring.)



# INSTALLATION

4

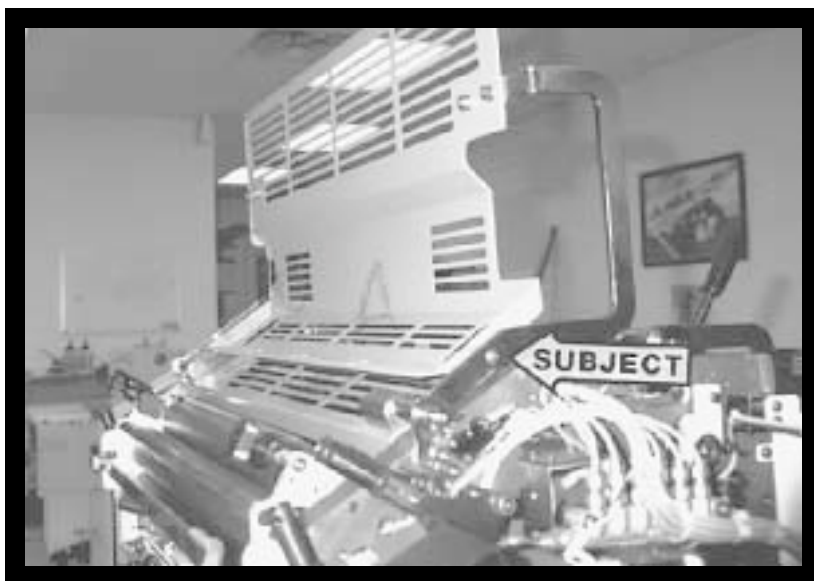
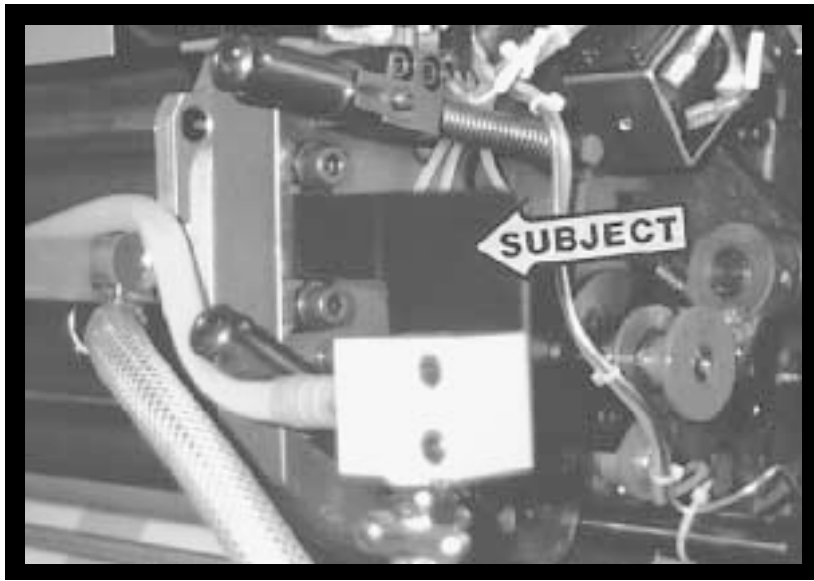
At OPS and NOPS, install dampener mounting frames. Retain with hardware supplied.

5

Insert dampener into bearing cups. Secure with mounting caps. Note: plastic screw in center of cap is factory set. *Do not adjust.*

6

At OPS and NOPS, secure dampener to lift arms using shoulder bolt provided. To remove any end play, adjust plastic screws on mounting frames to just touch the dampener frames. Secure with nut.



# INSTALLATION

**7**

At NOPS, install water pan valve bracket as shown. Attach valve assembly to the new brackets using the bolts provided. Note: photo shows #1 unit. Second unit uses longer bolts and spools.

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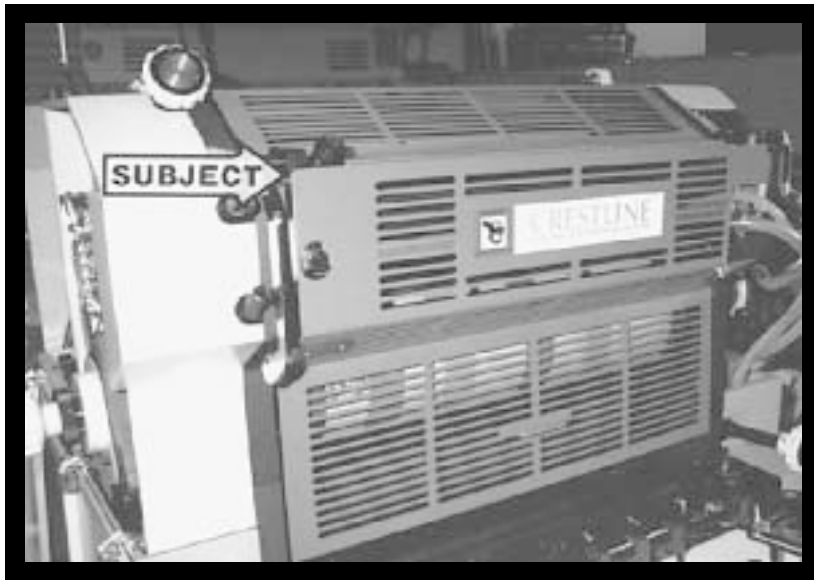
**8**

Install water form using original water form shaft. (Photo shows auxiliary rider already installed.)

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**9**

On guard mounting arms of #2 unit, drill hole in each arm using provided template and drill bit. Remount arms and attach bottom part of guard as original. At top, slip spacer between arm and guard. Slip bolt from inside guard, through spacer and arm. Secure with provided chrome nut and lock washer. Recheck proper microswitch activation.

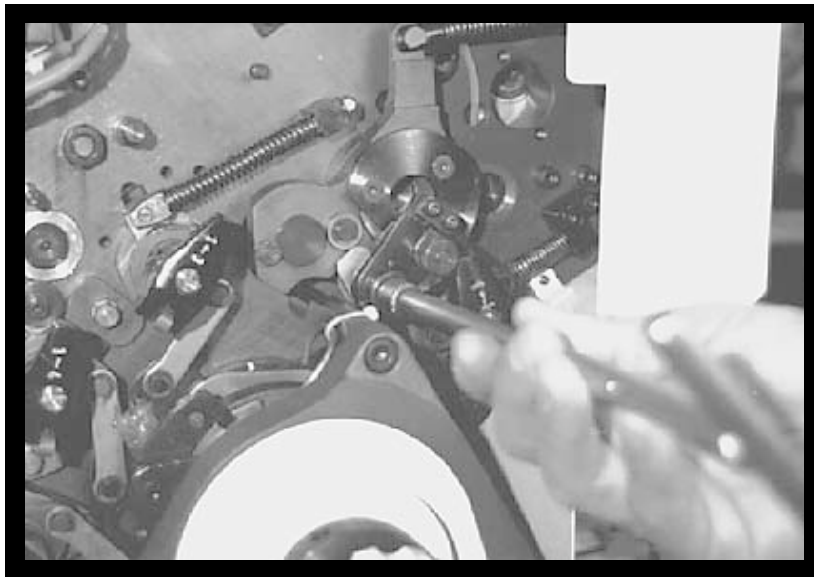


**10**

On #1 unit, mount new guards and hardware using existing lift arms. Recheck microswitch activation.

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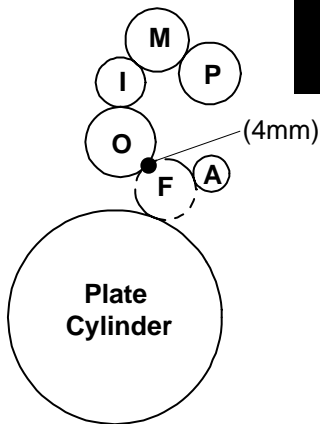
# FINAL ADJUSTMENTS

1

Mount a metal plate to plate cylinder. Dab small amount of ink on dampener form roller. Slowly jog and then run press until ink is evenly distributed on oscillating and form rollers.

2

## Water Oscillator to Form



Stop press and let sit for about 10 seconds. Then jog forward to observe stripe.

### a) *Adjusting Parallel Pressure:*

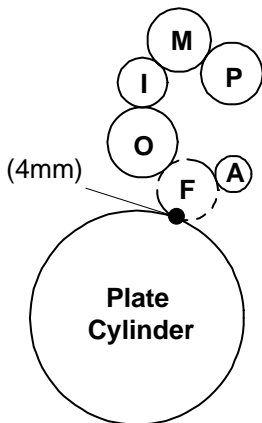
Loosen set screw and turn shaft bracket (eccentric) to adjust parallel pressure. Turn clockwise to increase contact pressure of NOPS; counterclockwise to increase contact pressure of OPS.

### b) *Adjusting Overall Contact Pressure:*

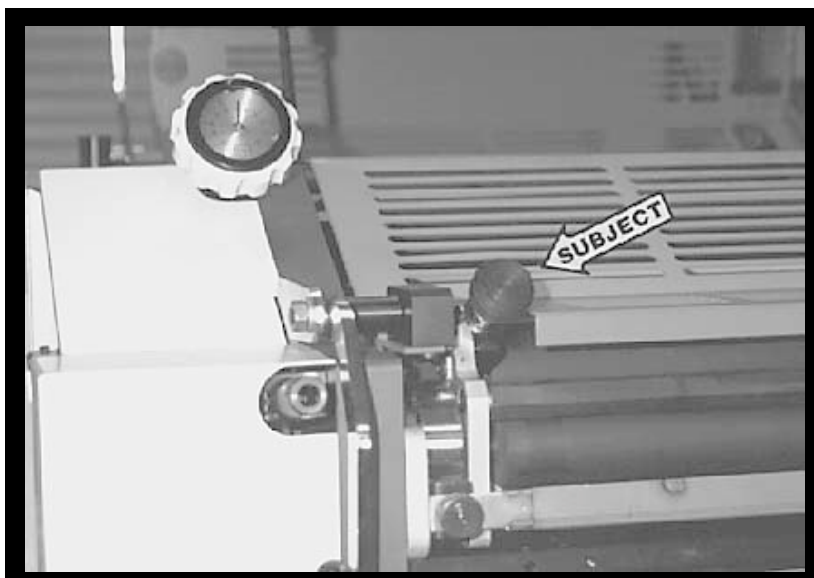
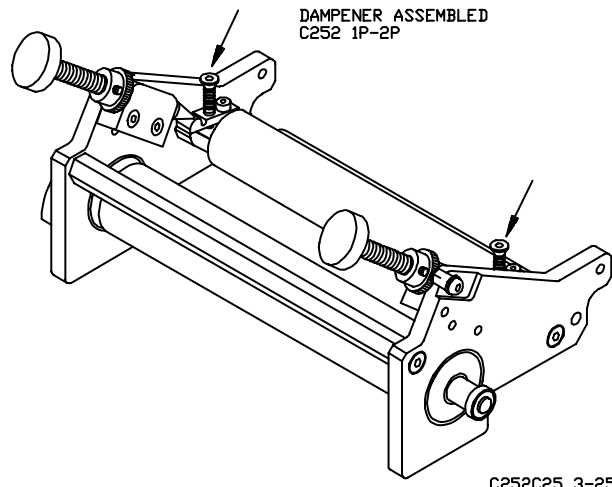
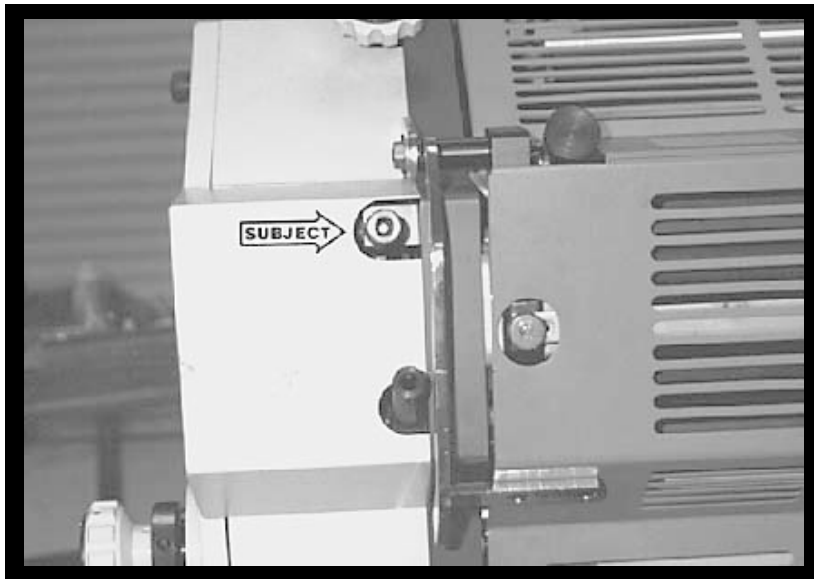
Loosen set screw. With screw driver, turn shaft clockwise to increase contact pressure; counterclockwise to decrease. Stripe should be 5/32" (4mm).

3

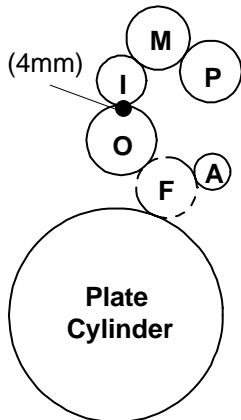
## Water Form to Plate



Adjust contact pressure of water form against the plate with lower control knobs (subject arrow) on OPS and NOPS. Turn clockwise to decrease pressure; counterclockwise to increase. Stripe should be 5/32" (4 mm).



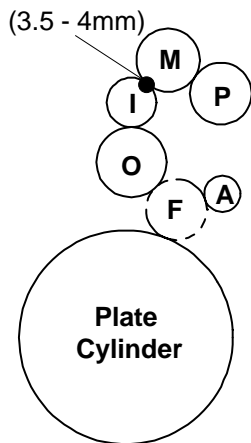
# FINAL ADJUSTMENTS



**4**

## Water Oscillator to Intermediate

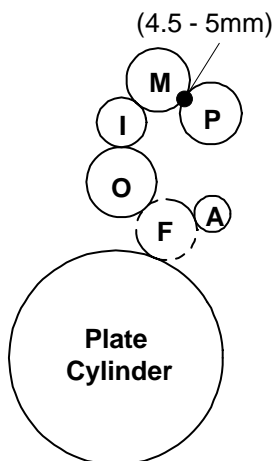
Run press and turn on Damp Form switch to ink remaining dampener rollers. Open top guard to stop press. Wait about 10 seconds, then jog press forward to observe strip on intermediate roller. Stripe should be  $5/32$ " (4mm). Adjustment is made with upper control knobs (subject arrow) on OPS and NOPS. Turn clockwise to decrease stripe; counterclockwise to increase.



**5**

## Intermediate to Metering

Run press and turn on Damp Form switch. Open top guard to stop press. Wait 10 seconds, then jog press backwards to observe stripe on metering roller. Stripe should be  $1/8$ " to  $5/32$ " (3.5 - 4 mm). Adjust cap screws (subject arrows) on OPS and NOPS. Turn screws clockwise to increase stripe; counterclockwise to decrease.



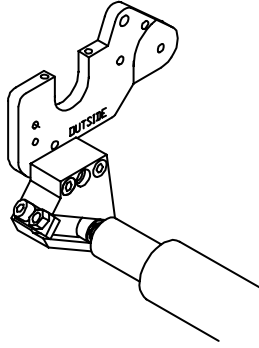
**6**

## Metering to Pan

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

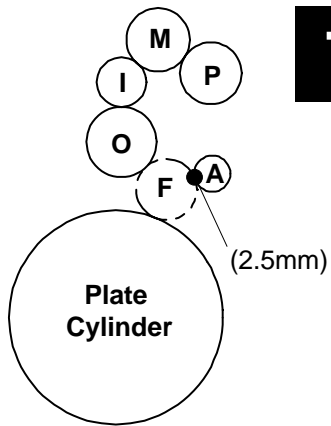
When the proper stripe has been obtained, spin the ratchet gears down until they bottom out on the stud and secure the ratchet gear to the knurled knobs with the set screws.

AUXILIARY RIDER ROLL  
HAWAII C252 1P-2P



C252C26 3-25-96

# FINAL ADJUSTMENTS



**7**

## Auxiliary Rider to Water Form

Install auxiliary water form rider roller into brackets. Secure with spring caps and cap head screws provided.

# BASIC OPERATION

## START OF DAY

- A. Make sure all rollers are in place.
- B. Spin knurled knobs until the ratchet stops.
- C. Mount plate to cylinder. Wipe down all plates before running. Before running metal plates, pre-ink the Crestline® dampener with an extremely light coverage of ink by turning the Damp Form and Ink Form switches to ON. *For Silvermaster or electrostatic plates, do not engage forms.* Dab a small amount of ink on the metering roller to pre-ink dampener.
- D. Turn on water pan valve.

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

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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" (4mm) to the plate.
- B. Adjustments to the amount of water fed to the plate are made by the knurled knobs that apply pressure to the metering roller. The dampener has been set up for minimum water. To increase the water to the plate, turn the knurled knobs counterclockwise 1 or 2 clicks at a time. This opens the gap between the metering and pan rollers and allows more water to the plate.
- C. In general, more water will only be required when going from a metal plate to an electrostatic or Silvermaster-type plate.

# CLEANING & MAINTENANCE

## WASH UPS DURING THE DAY

1. Turn off water pan valve and drain 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. Set the Damp Form and Ink Form switches to on, dropping the water form and ink forms to the plate.
5. Use washup attachment as normal. When the press is clean, disengage forms.
6. Remove water pan and clean any solution left in it.
7. Be sure to wipe excess cleanup solution from the ends of the dampener metering and pan rollers.

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## 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.

## CLEANING & MAINTENANCE

### DEGLAZING THE DAMPENER

Periodic deglazing of water-soluble contaminants will be necessary with the Crestline®. Typically, once every 2-3 weeks will be sufficient, unless you are running electrostatic plates on a daily basis whereas deglazing should be performed weekly. A 50/50 solution of household ammonia and hot water can be used for deglazing purposes. **Accel recommends avoiding deglazers containing pumice or gritty substances.** Always follow deglazing with straight water and then roller wash. Accel offers a product called **COMPOUND X** that we recommend for deglazing our system. Contact your dealer or Accel for more information.

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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 once a month.

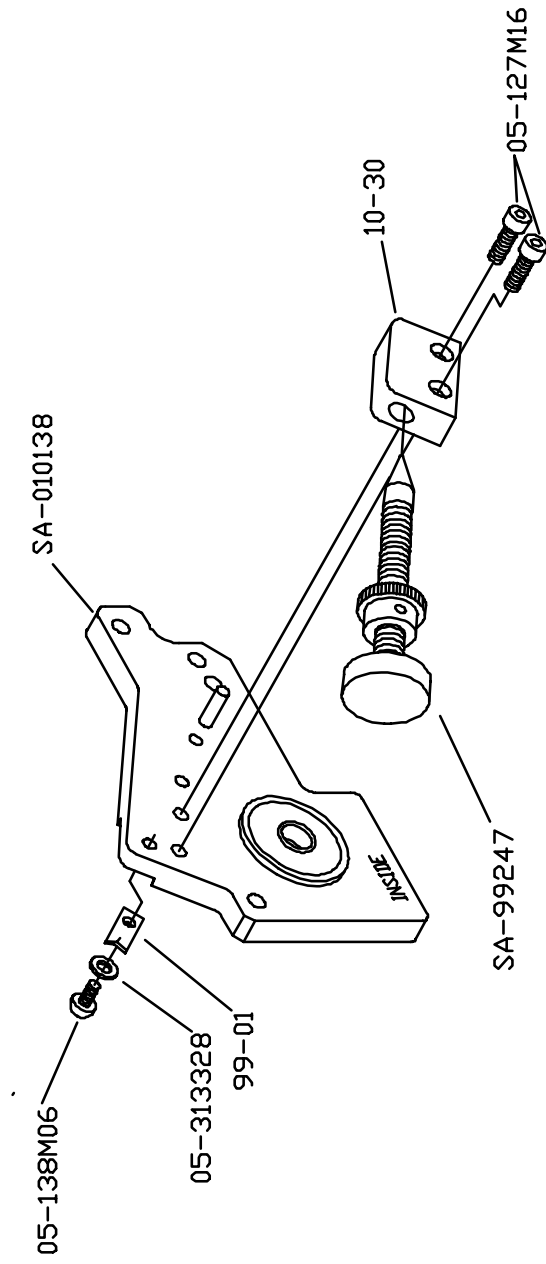


# CLEANING & MAINTENANCE

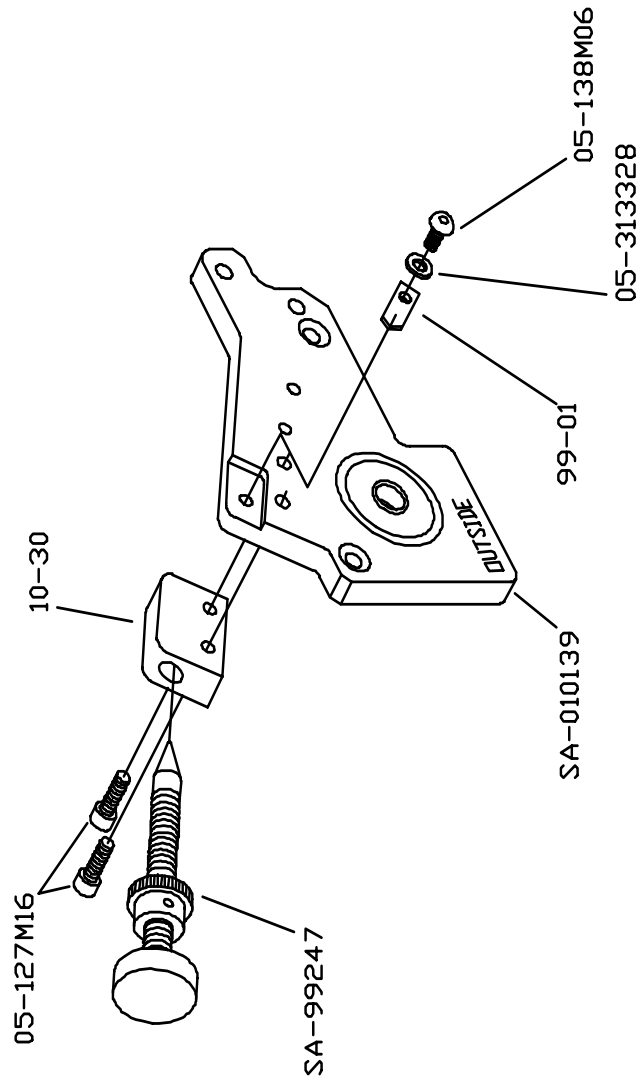
## CRESTLINE® CLEANING & MAINTENANCE CHART

	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				✓

SIDE FRAME ASSEMBLY-OPS  
HAMADA C252

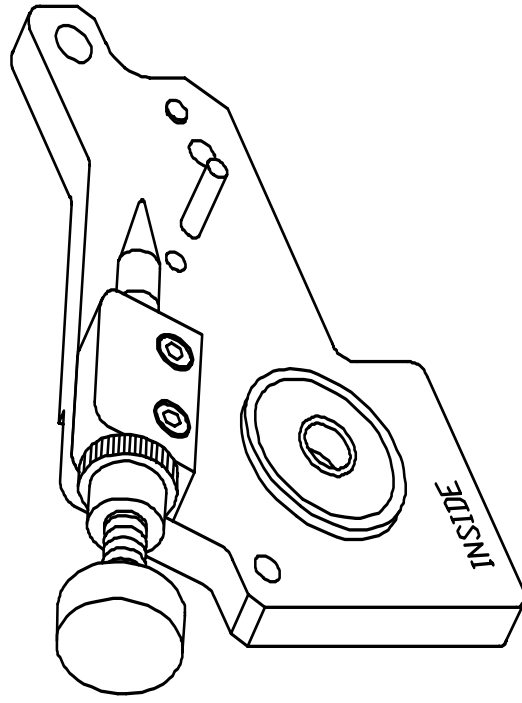


SIDE FRAME ASSEMBLY-NDPS  
HAMADA C252

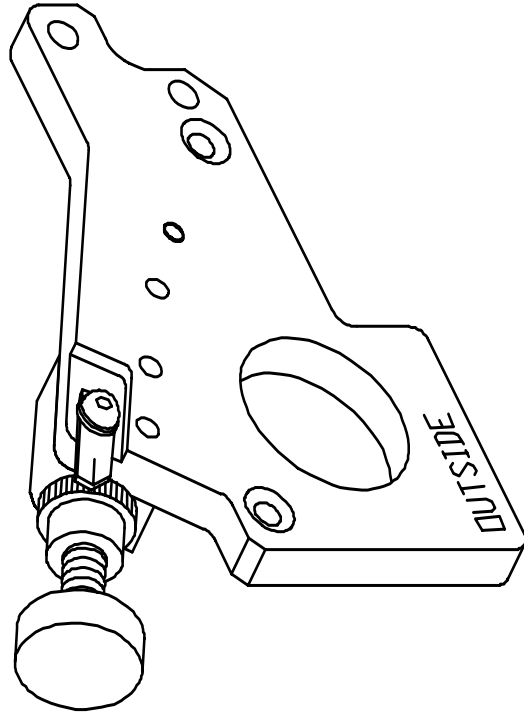


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SIDE FRAME ASSEMBLED-OPS  
HAMADA C252

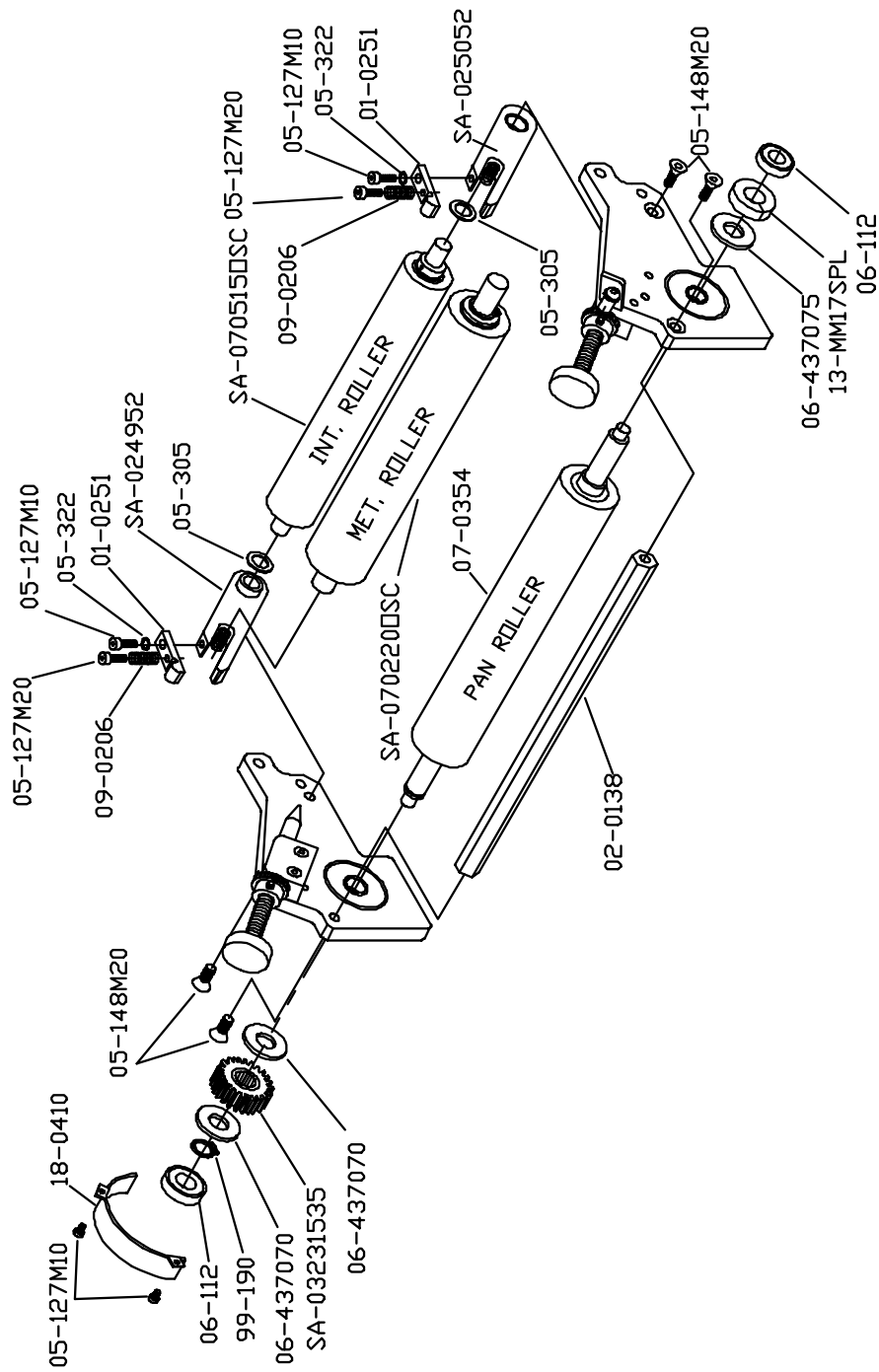


SIDE FRAME ASSEMBLED-NOPS  
HAMADA C252



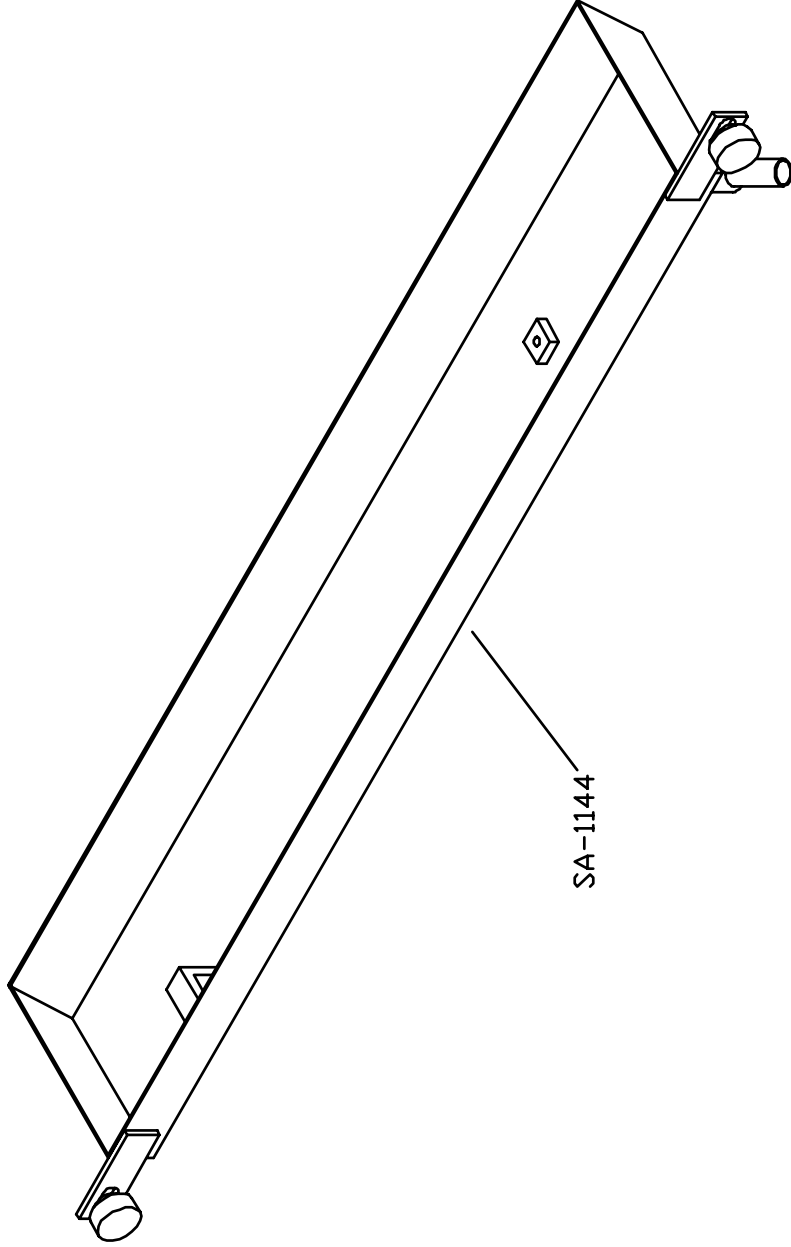
C252C04, 3-13-97

DAMPENER ASSEMBLY  
HAMADA C252



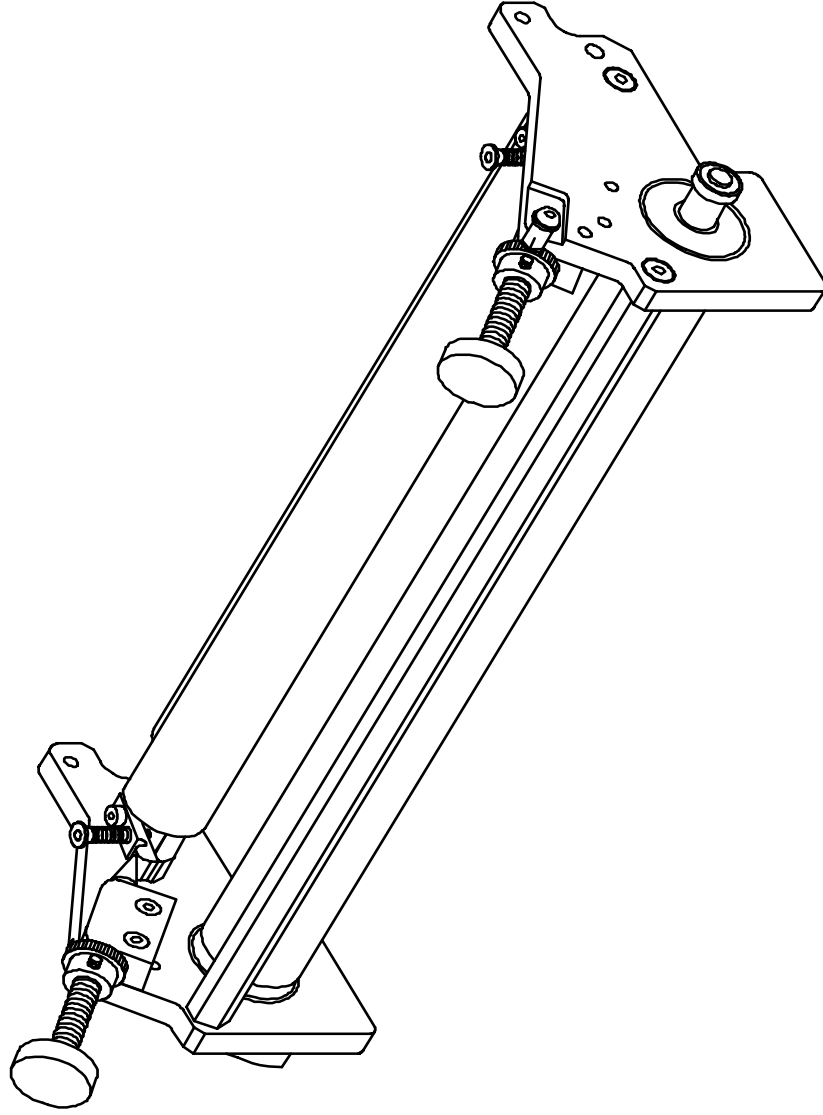
C252C05, 9-18-98

WATER PAN ASSEMBLY  
HAMADA C252



C252C06, 3-14-97

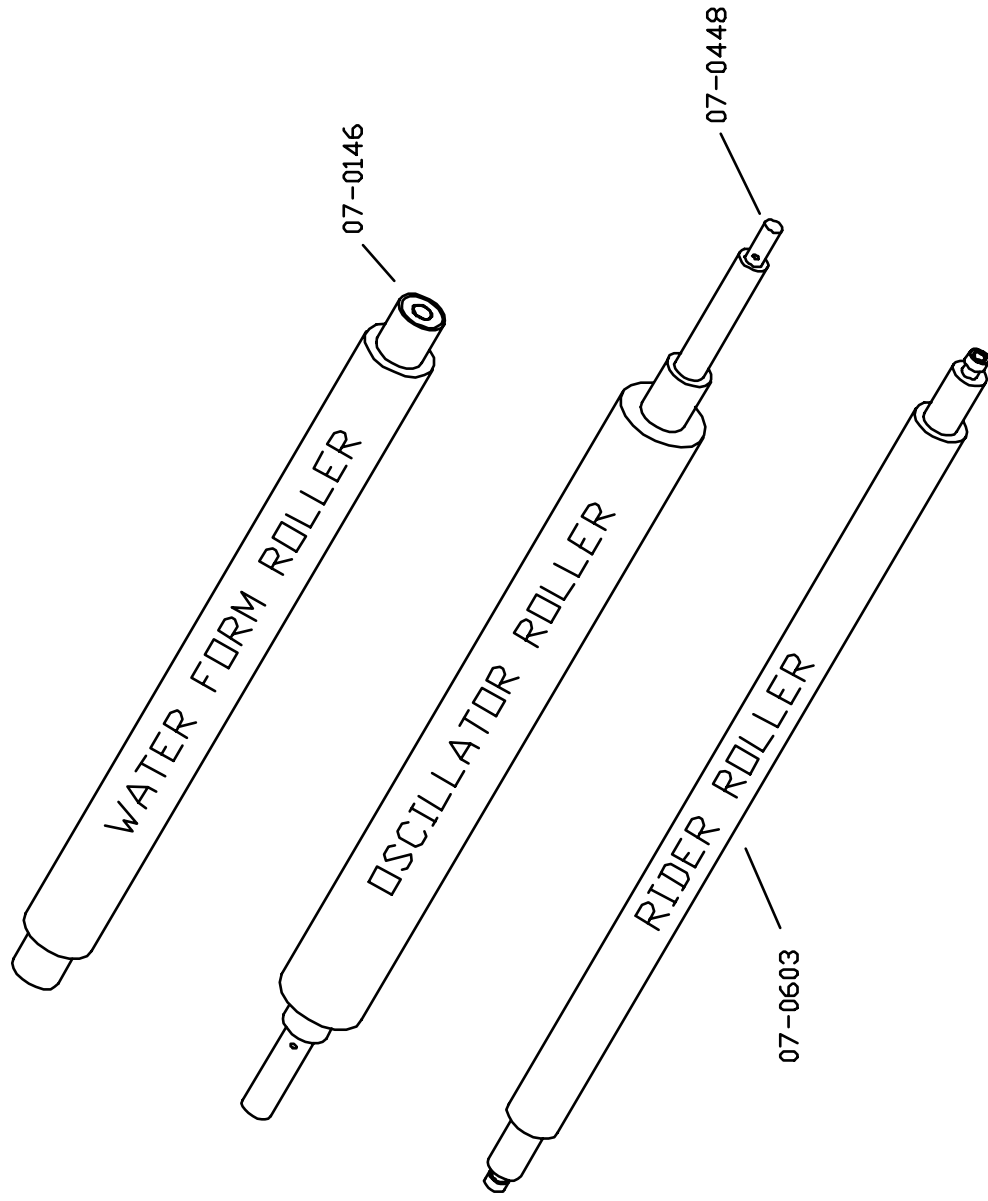
ASSEMBLED DAMPENER  
HAMADA C252



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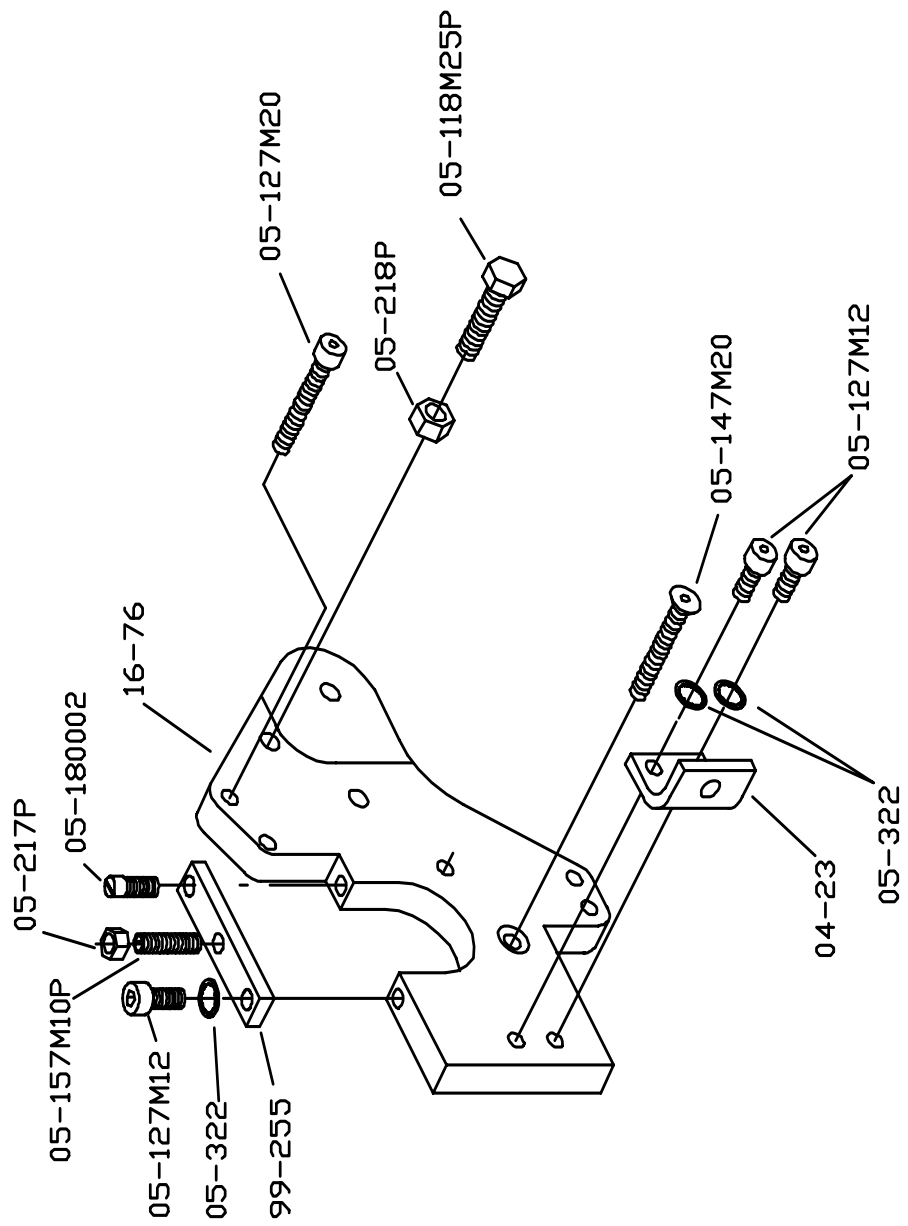


WATER FORM OSCILLATOR RIDER ROLLER ASSEMBLIES  
HAMADA C252

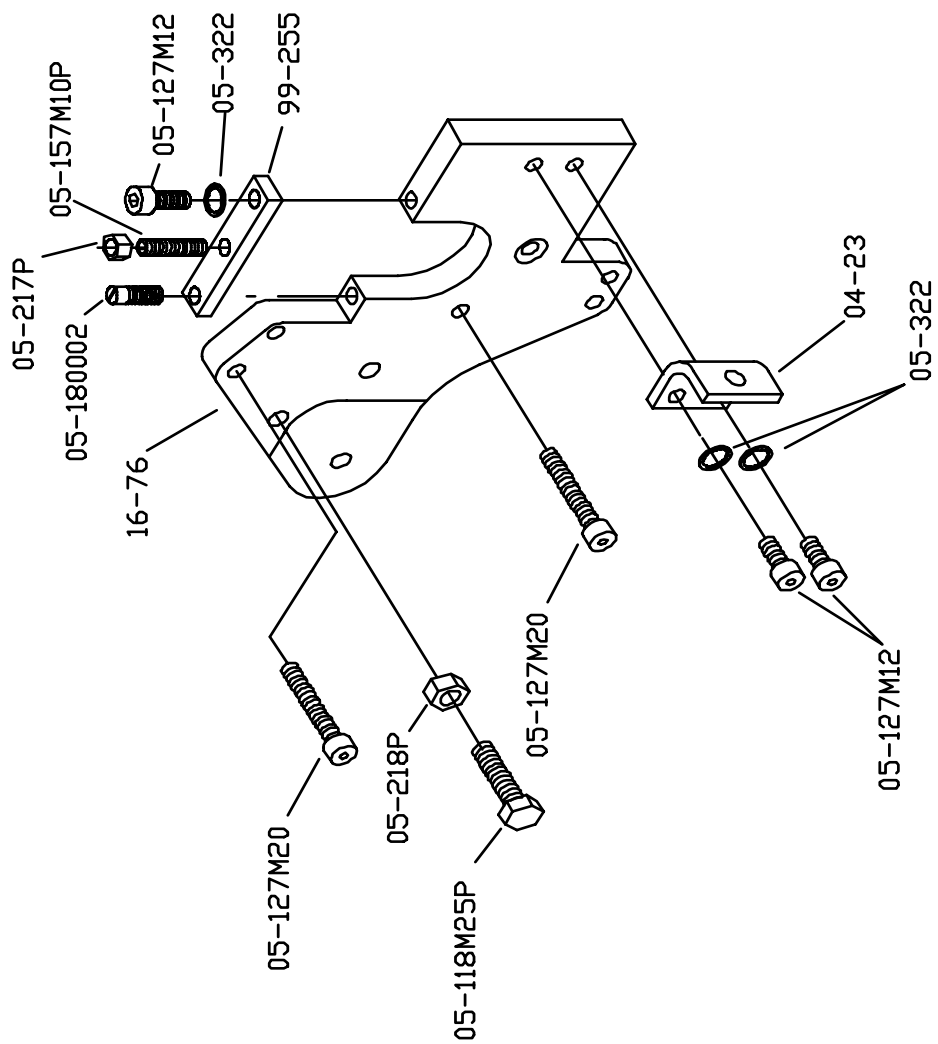


C252C08, 3-14-97

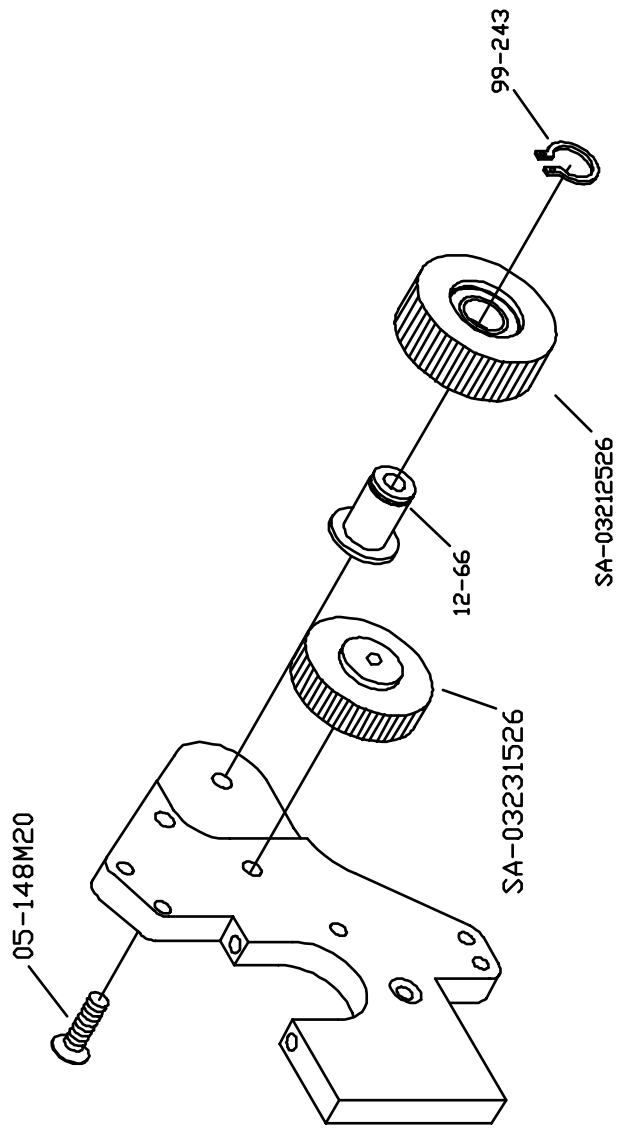
MOUNTING FRAME ASSEMBLY - DPS  
HAMADA C252 1P



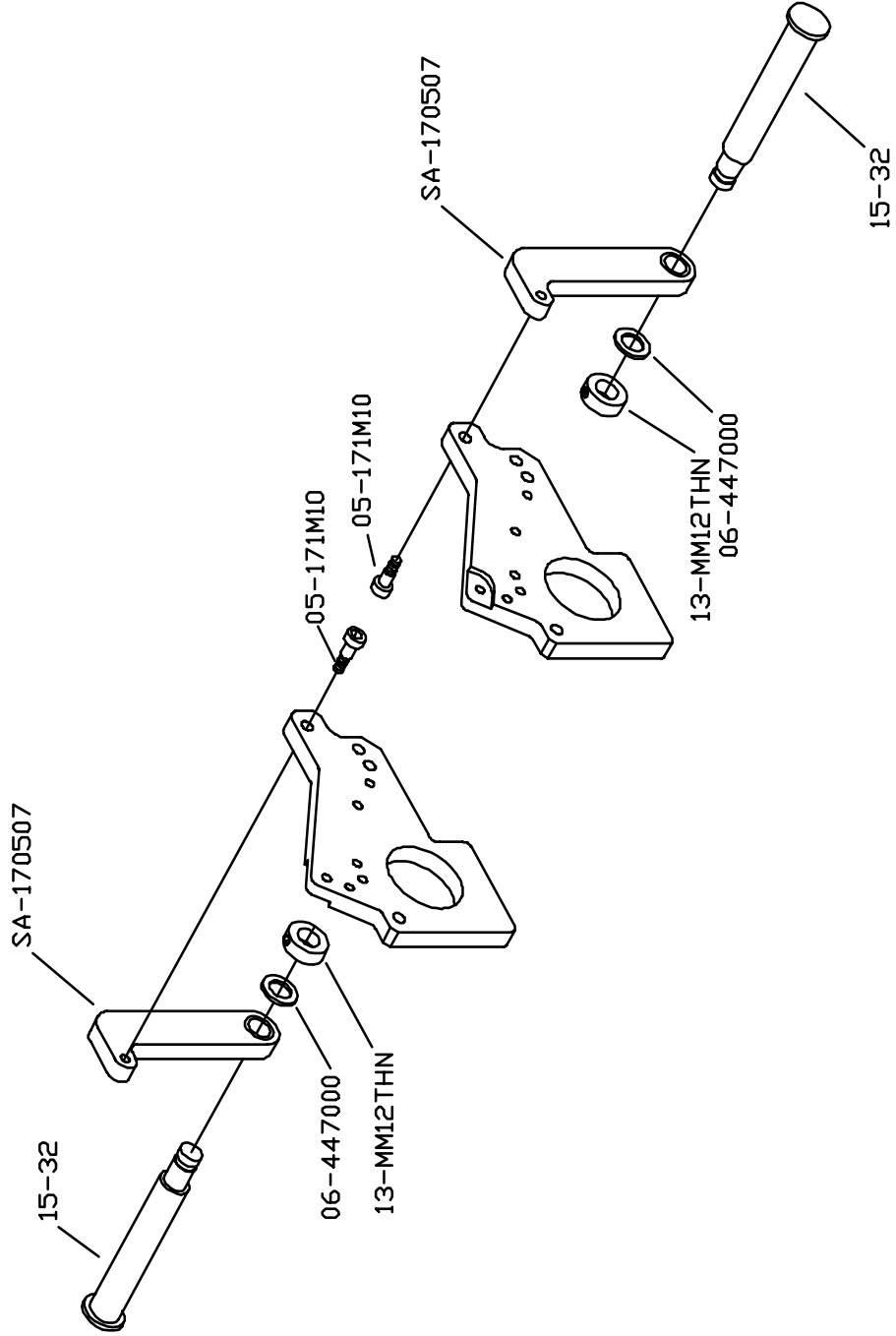
MOUNTING FRAME ASSEMBLY - NDPS  
HAMADA C252 1P



IDLER GEAR ASSEMBLY  
HAMADA C252 1P

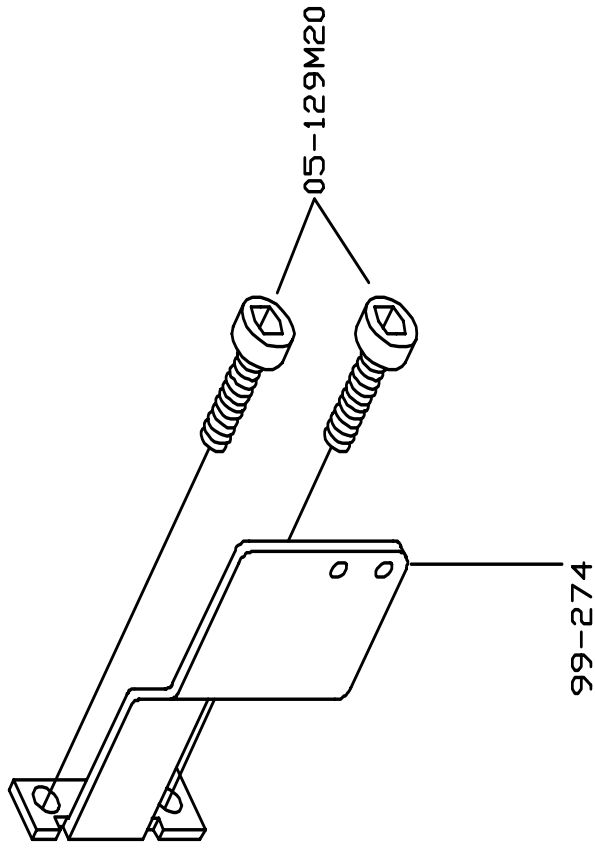


LIFT PLATE ASSEMBLY  
HAMADA C252 1P

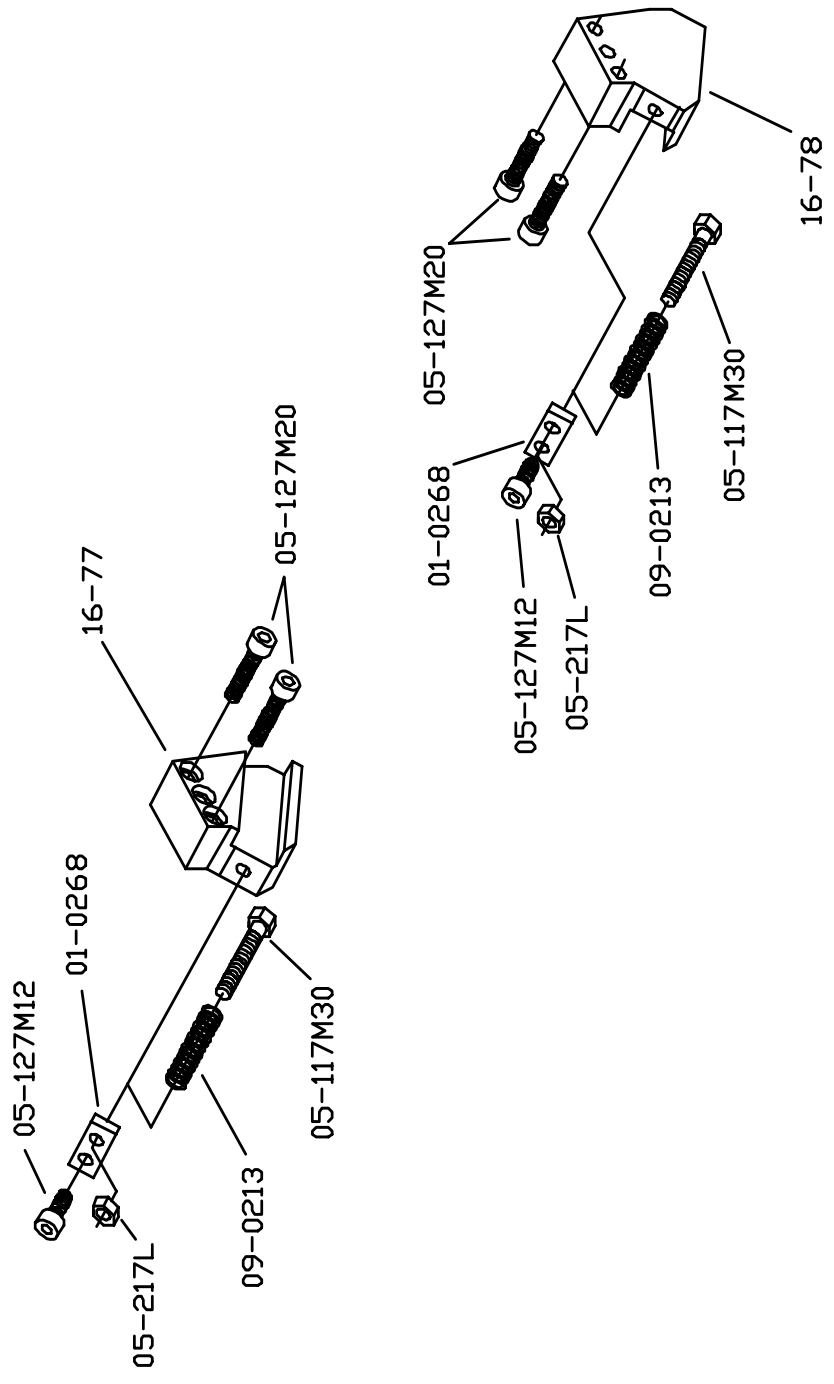


C252C12, 3-14-97

VALVE MOUNTING BRACKET  
HAMADA C252 1P

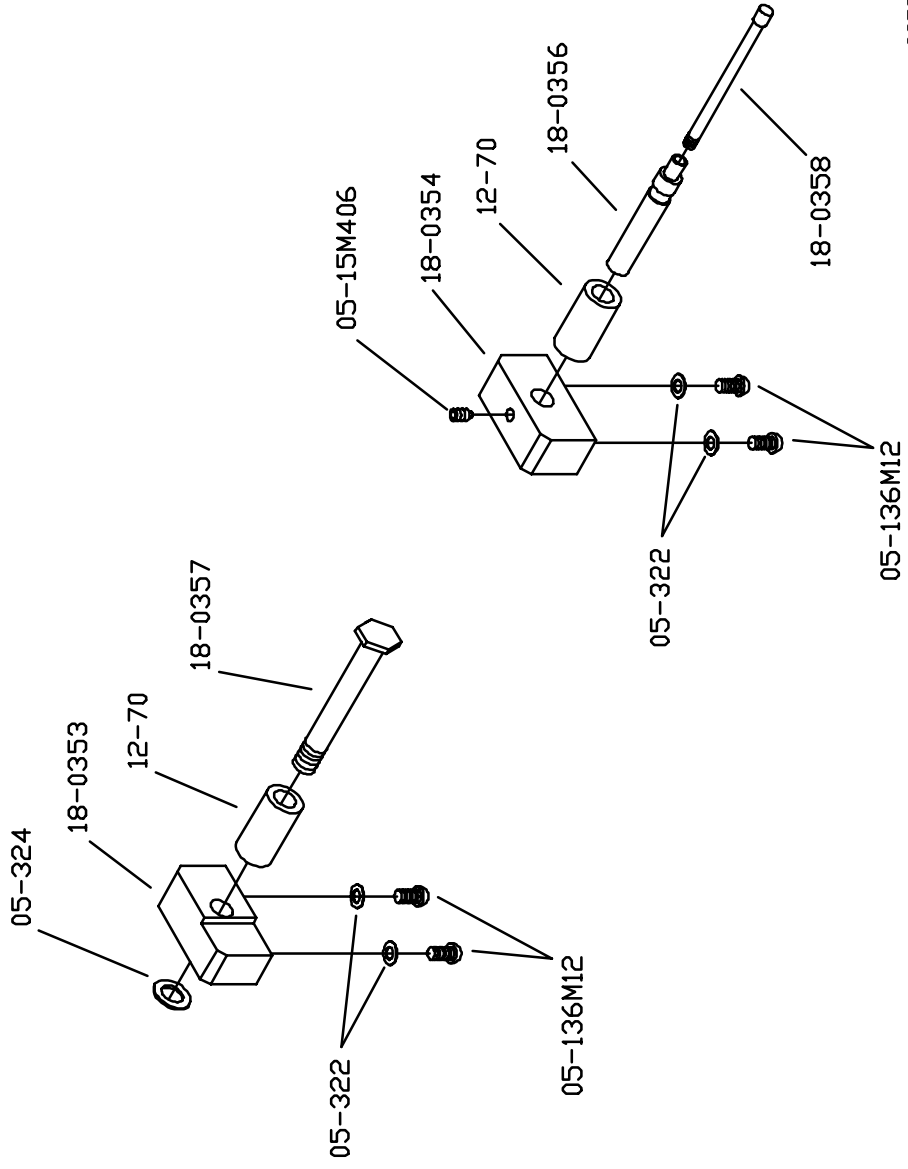


RIDER ROLLER MOUNTING ASSEMBLY  
 HAMADA C252 1P & 2P



C252C14, 3-14-97

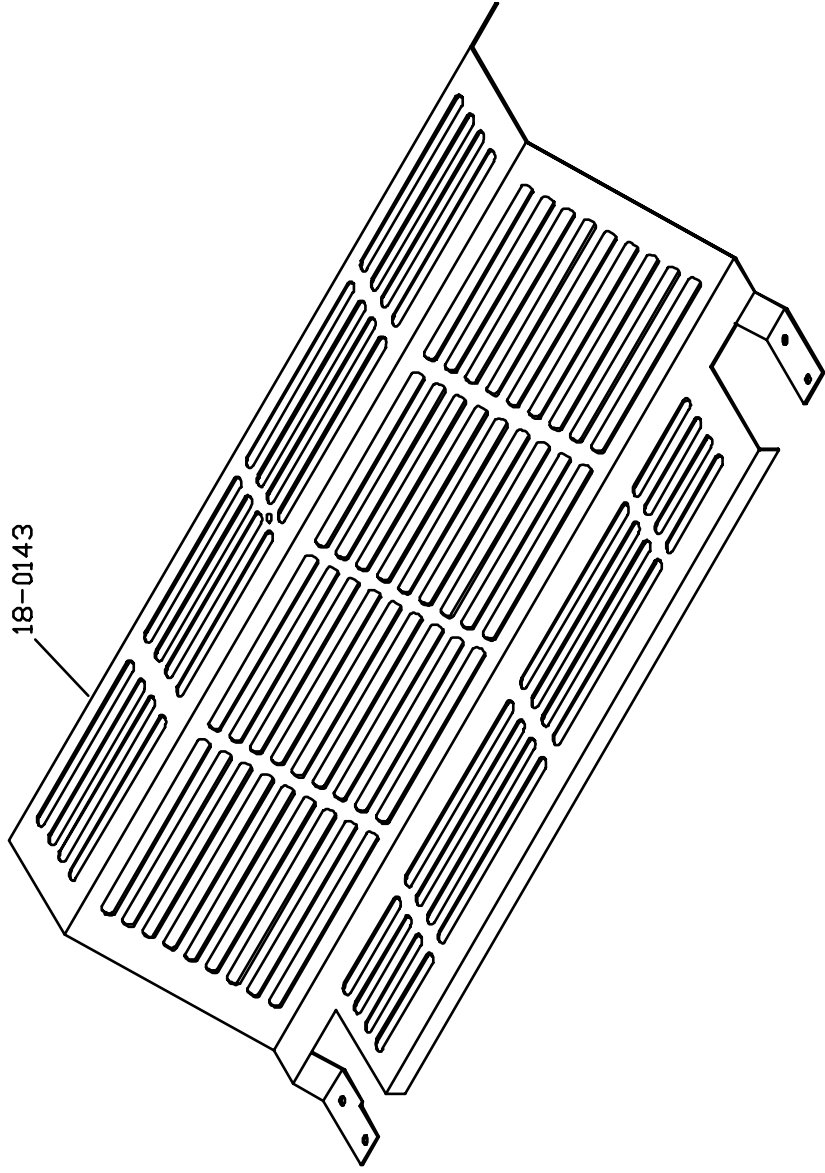
DAMPENER GUARD MOUNTING ASSEMBLY  
HAMADA C252 1P



C252C15, 9-15-97

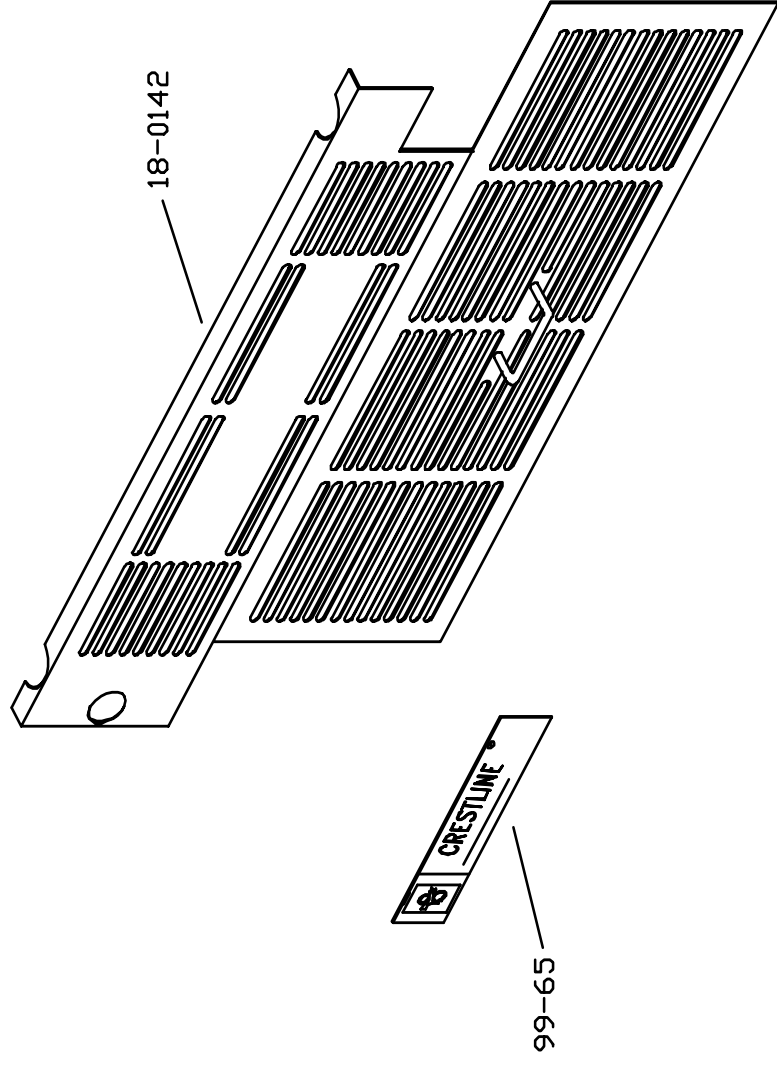


DAMPENER GUARD  
HAMADA C252 1P

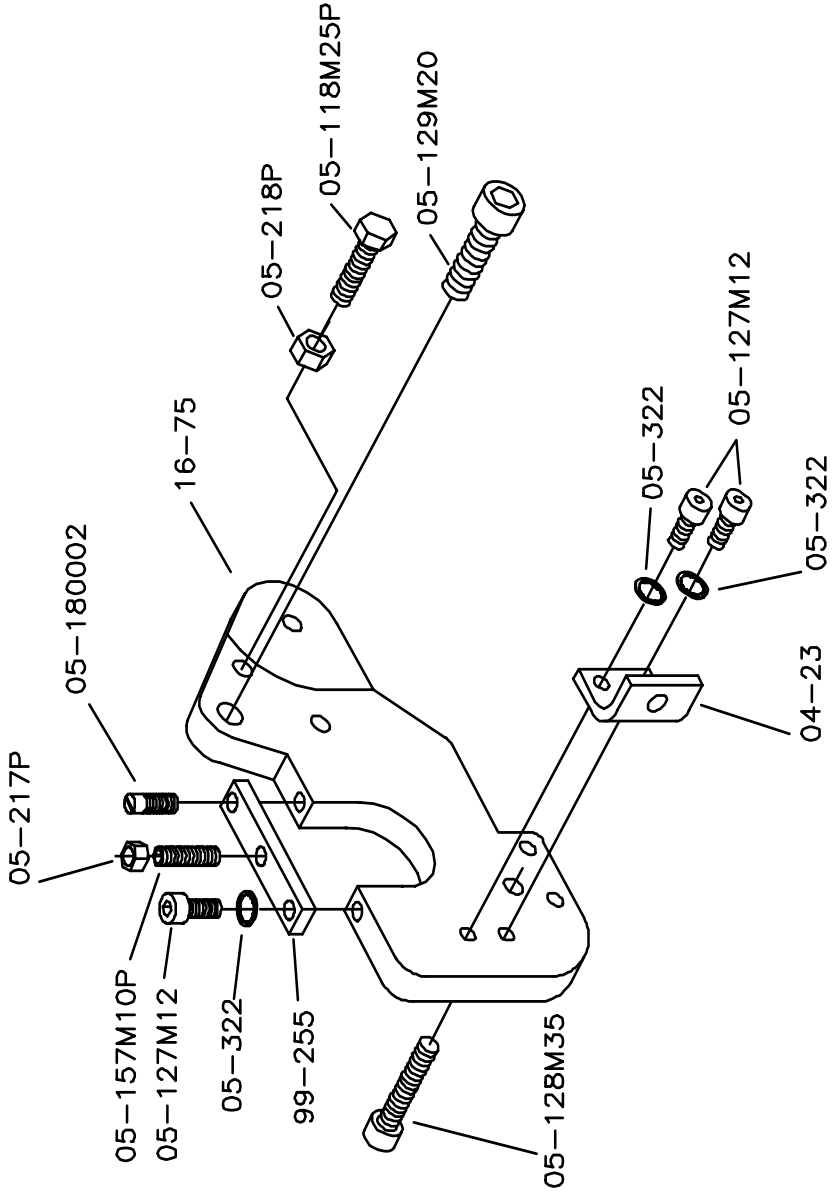


C252C16, 3-14-97

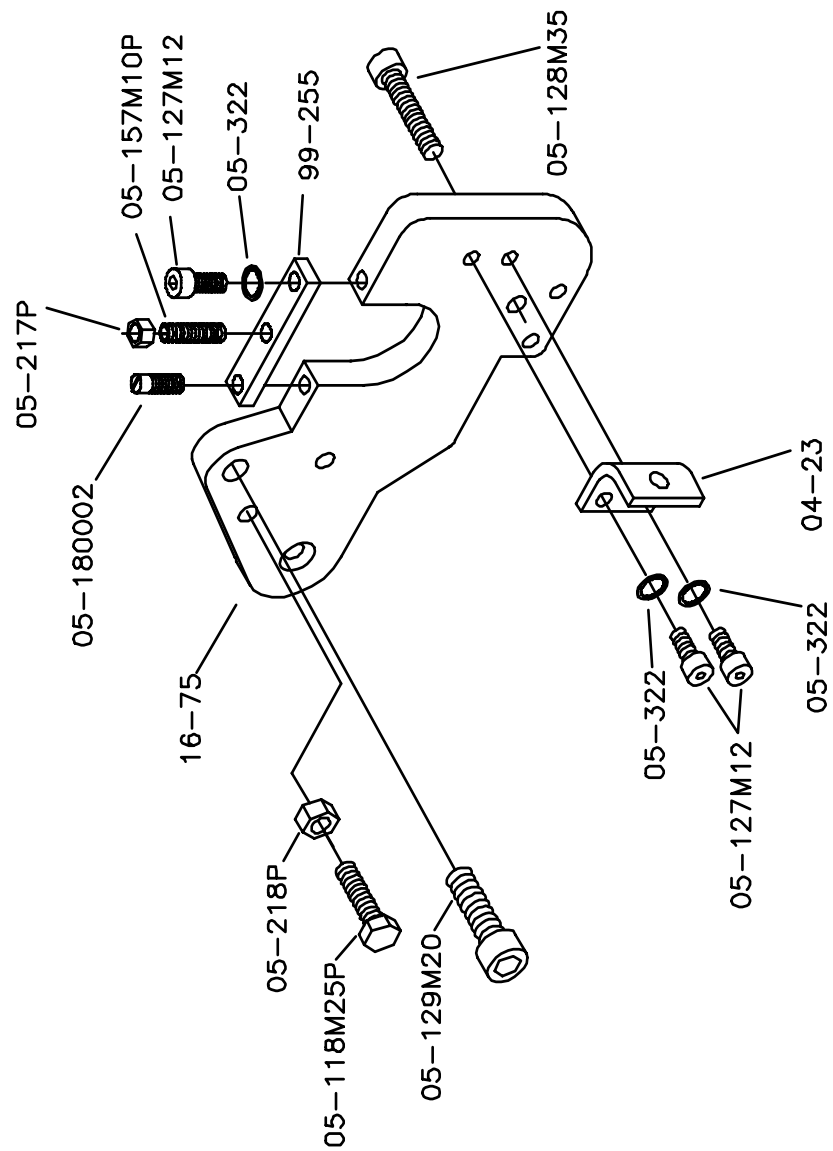
PLATE CYLINDER GUARD  
HAMADA C252 1P



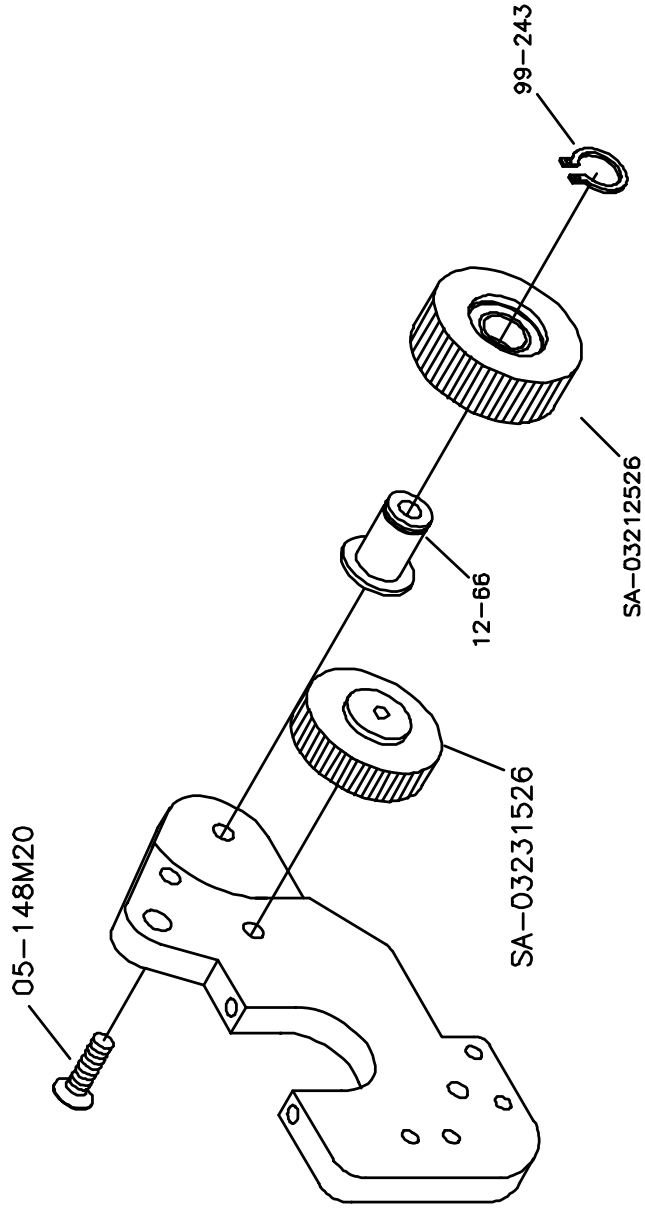
MOUNTING FRAME ASSEMBLY — OPS  
HAMADA C252 2P



MOUNTING FRAME ASSEMBLY – NOPS  
HAMADA C252 2P



IDLER GEAR ASSEMBLY  
HAMADA C252 2P



TIE BAR MOUNTING ASSEMBLY  
HAMADA C252 2P

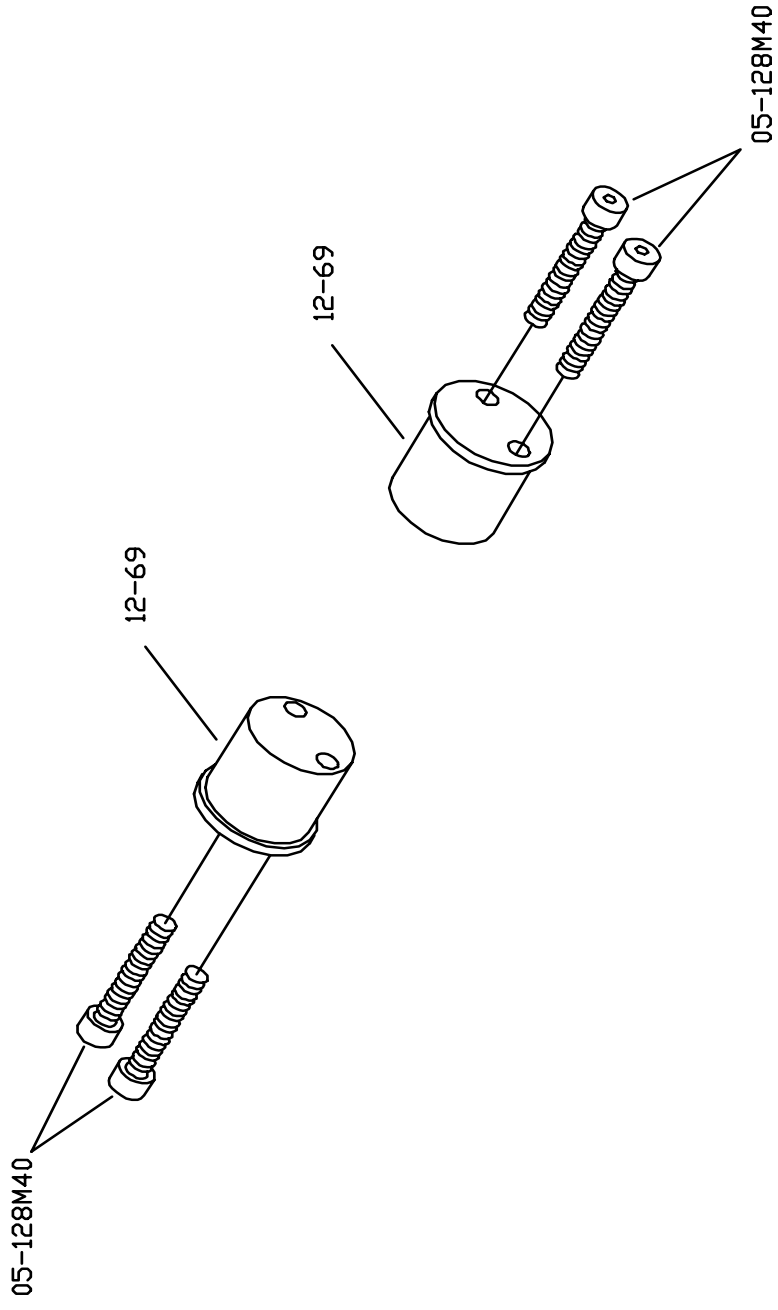
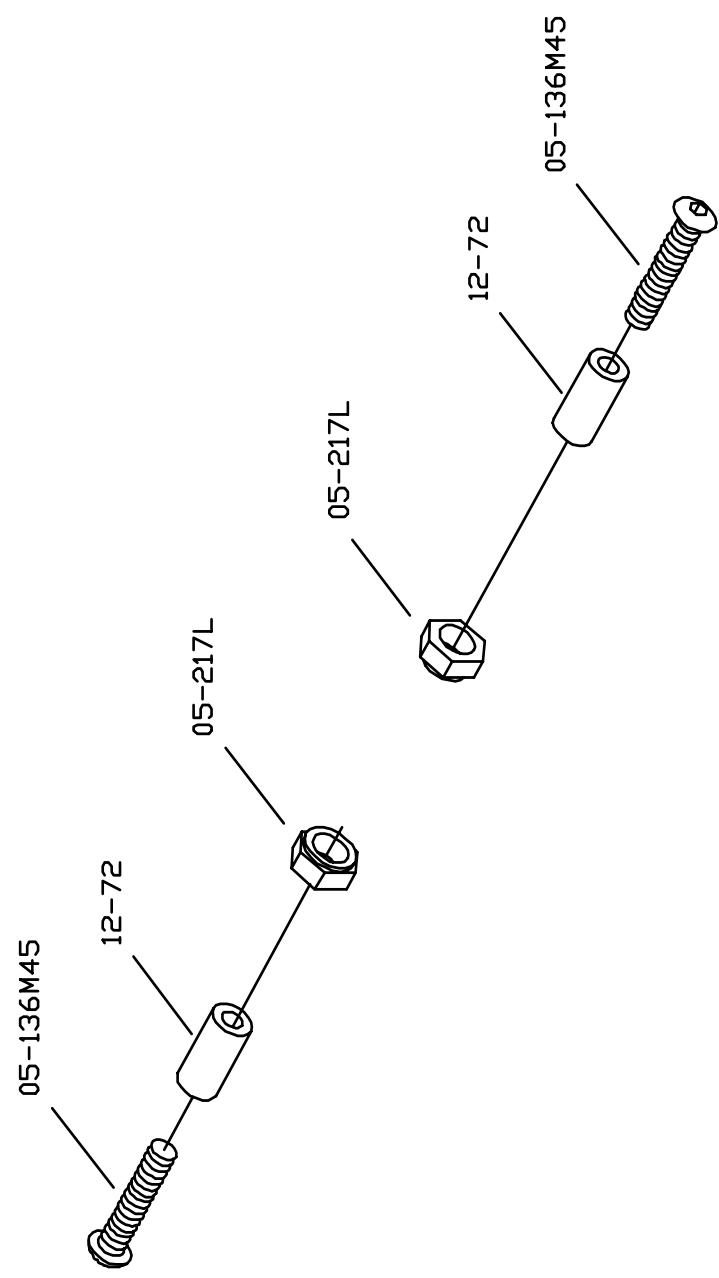
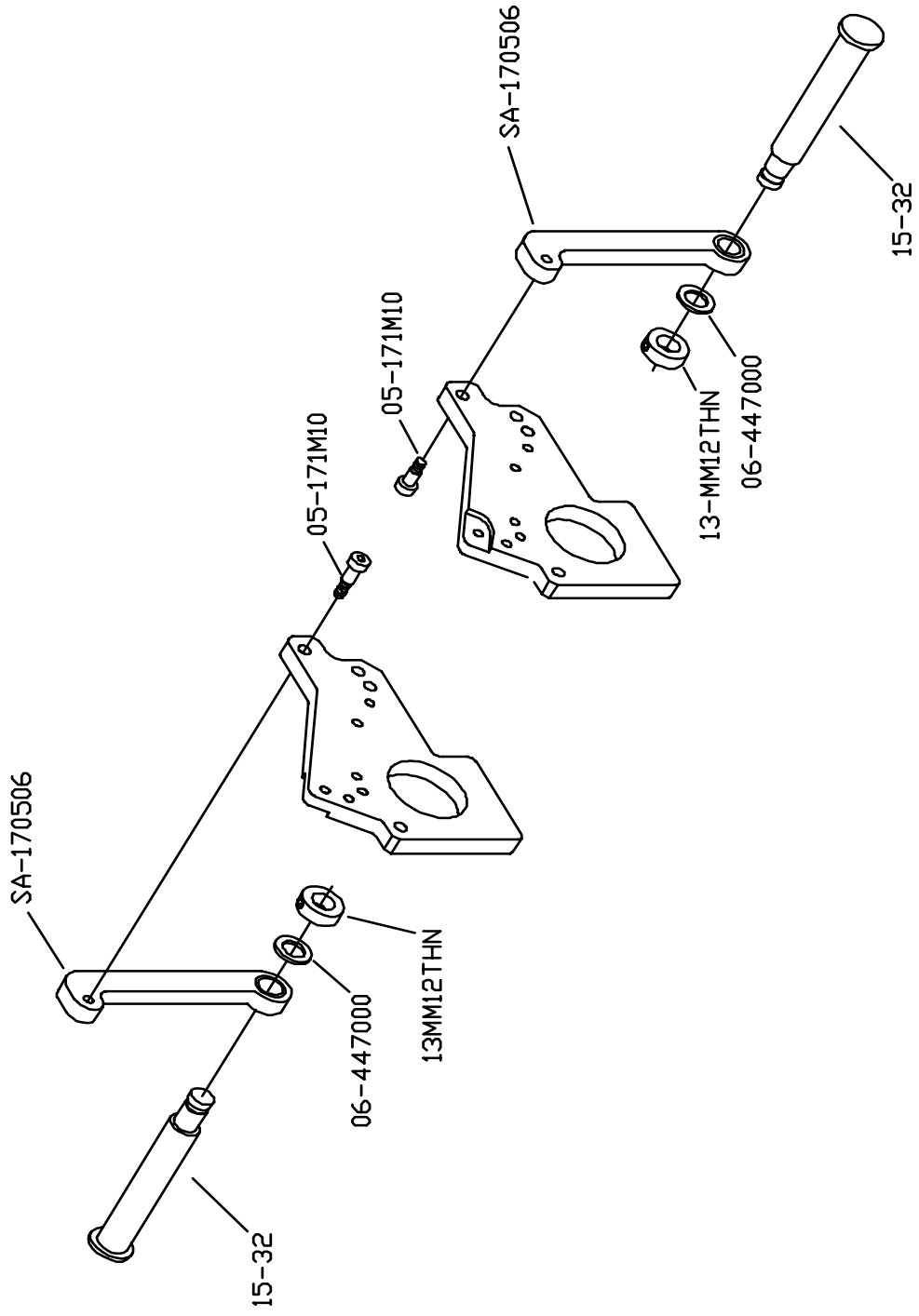


PLATE CYLINDER GUARD MOUNTING ASSEMBLY  
HAMADA C252 2P



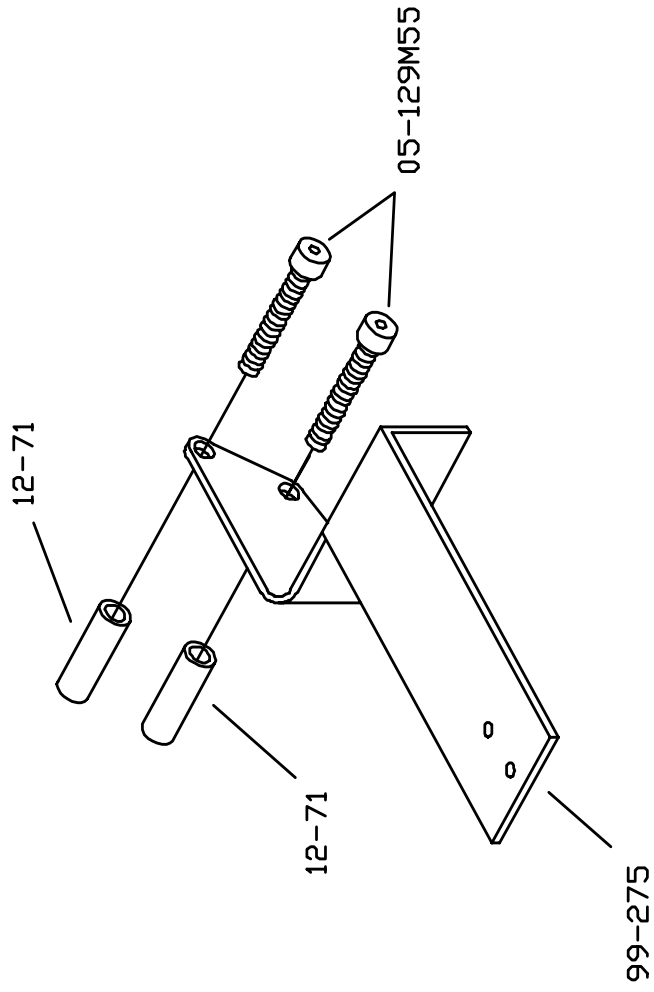
C252C22, 3-14-97

LIFT PLATE ASSEMBLY  
HAMADA C252 2P



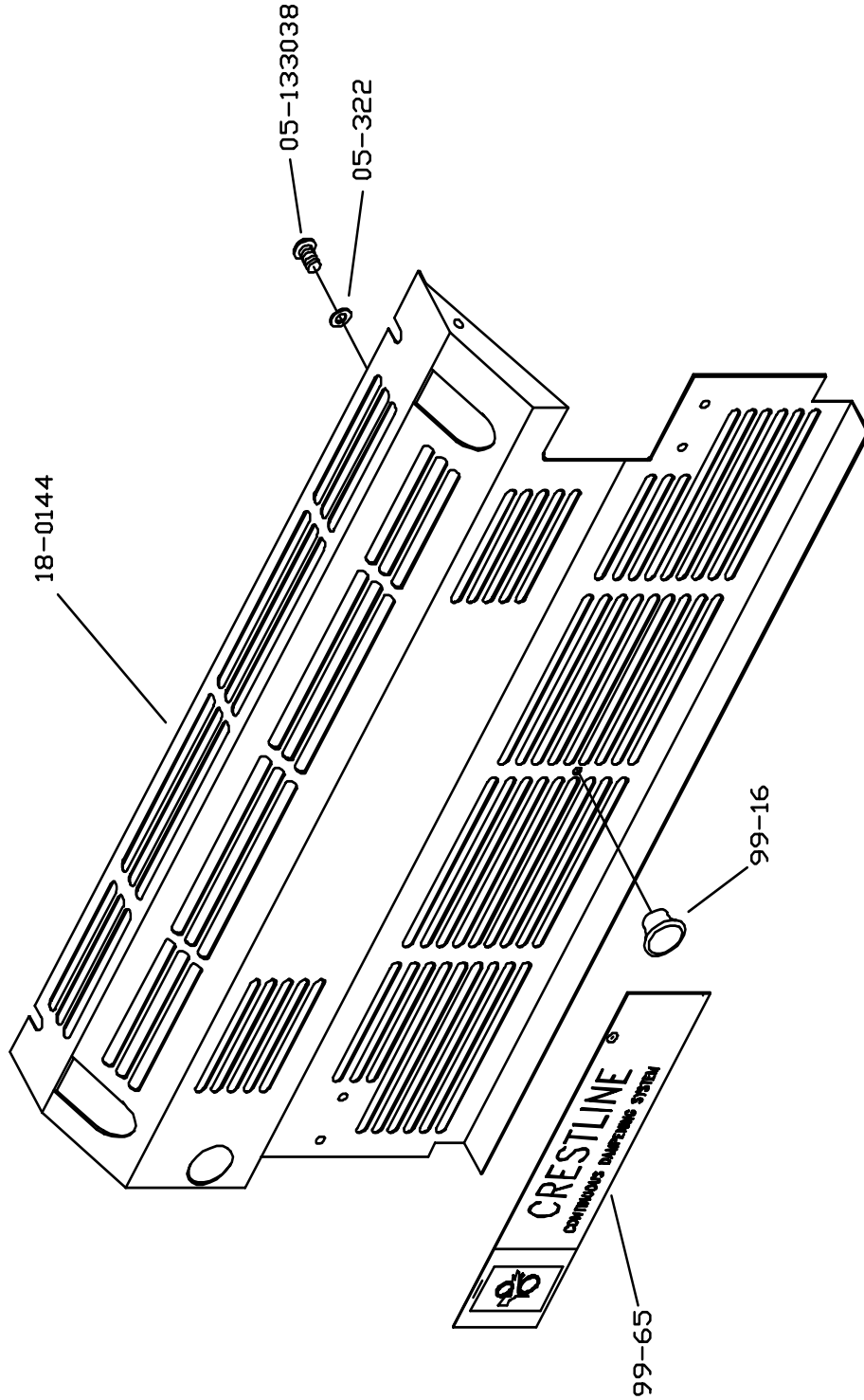


VALVE MOUNTING BRACKET  
HAMADA C252 2P



C252C24, 3-14-97

PLATE CYLINDER GUARD  
HAMADA C252 2P







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