

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

## **Installation Instructions**

**Sakurai 52 & 52E**

**ACCEL**  <sup>®</sup>  
*Graphic Systems*

## GENERAL INFORMATION

### **ATTENTION CRESTLINE® DAMPENER OWNER!**

Accel Graphic Systems provides parts and service through its authorized distributors and dealers. Therefore, all requests for parts and service should be directed to your local dealer.

The philosophy of Accel Graphic Systems is to continually improve all of its products. Written notices of changes and improvements are sent to Accel Graphic 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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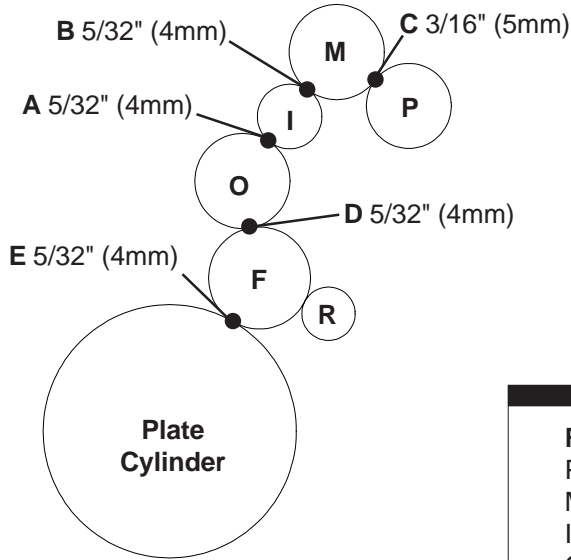
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### **SAFETY INFORMATION**

**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              |

| Roller Description |
|--------------------|
| P = Pan            |
| M = Metering       |
| I = Intermediate   |
| O = Oscillator     |
| F = Form           |
| R = Rider          |

## 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](mailto:accel@dallas.net)  
 WEB SITE [www.accelgraphicsystems.com](http://www.accelgraphicsystems.com)

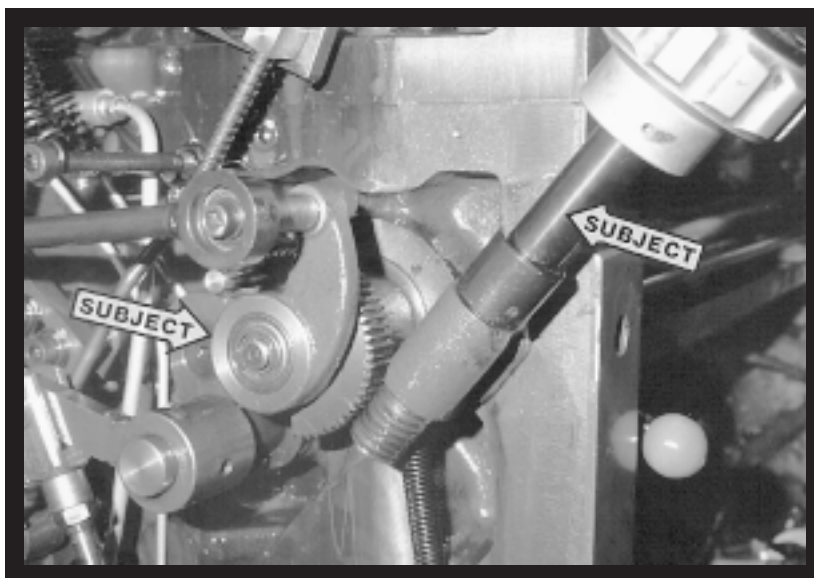
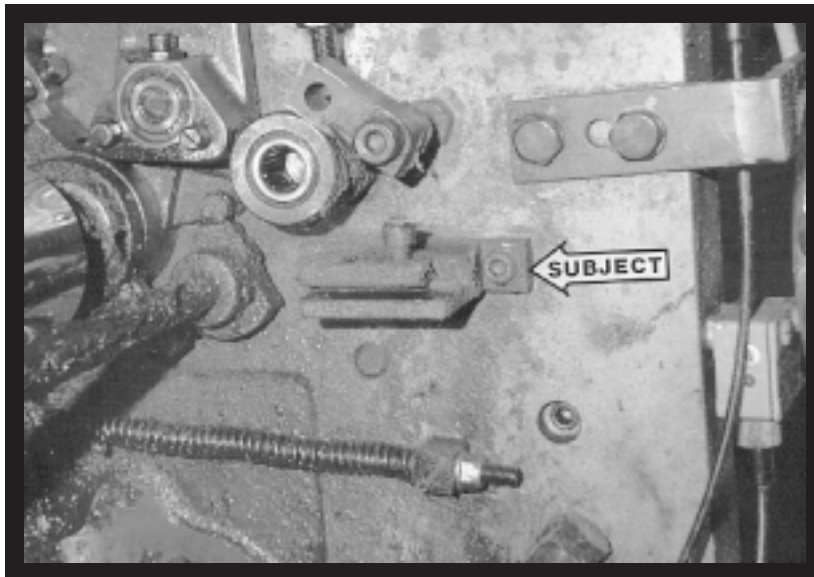
Crestline® is covered by U.S. Patents and Patents Pending

## GENERAL INFORMATION

|                       |                                  |
|-----------------------|----------------------------------|
| <b>REQUIRED TOOLS</b> | 2.5MM Allen Wrench               |
|                       | 4MM Allen Wrench                 |
|                       | 5MM Allen Wrench                 |
|                       | 6MM Allen Wrench                 |
|                       | 8MM Allen Wrench                 |
|                       | 8MM Open End Wrench              |
|                       | 13MM Open End Wrench             |
|                       | 17MM Open End Wrench (or socket) |
|                       | 19MM Open End Wrench             |
|                       | 22MM Open End Wrench             |
|                       | 24MM Open End Wrench             |
|                       | 3/16"(5MM) Punch                 |
|                       | 1/4"(6MM) Punch                  |
|                       | Hammer                           |
|                       | Snap Ring Pliers                 |
|                       | Standard Pliers                  |
|                       | Flat Head Screwdriver            |
|                       | Phillips Screw Driver            |
|                       | Gear Puller (Optional)           |

## PRE-INSTALLATION INFORMATION

1. 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

Remove press frame covers at OPS and NOPS. Also take out all removable dampener rollers and the water pan.

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2

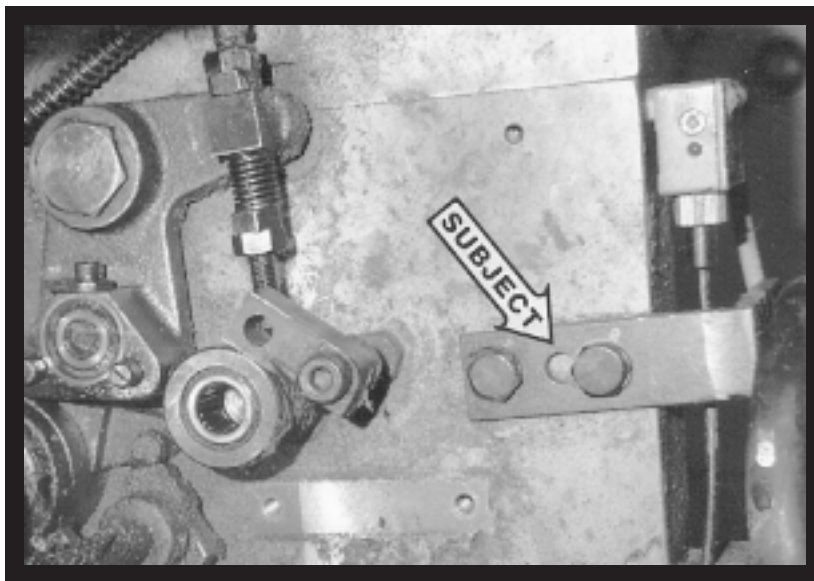
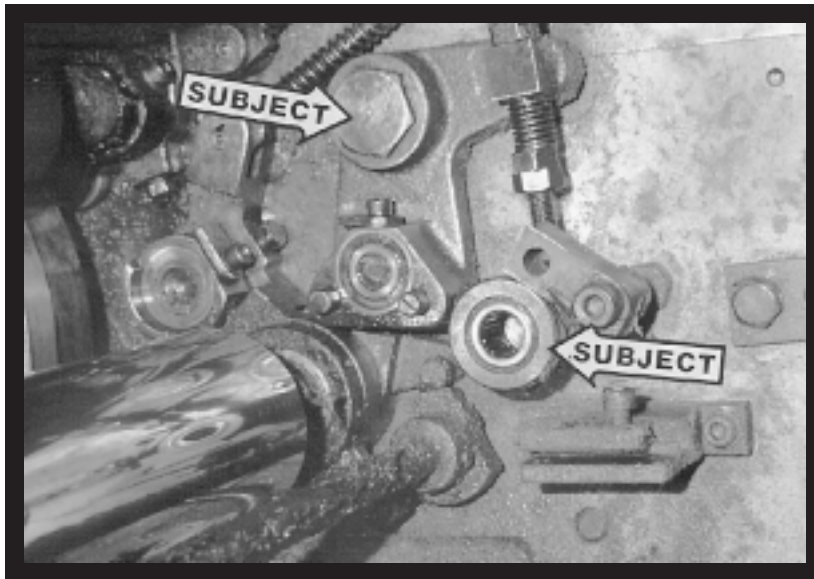
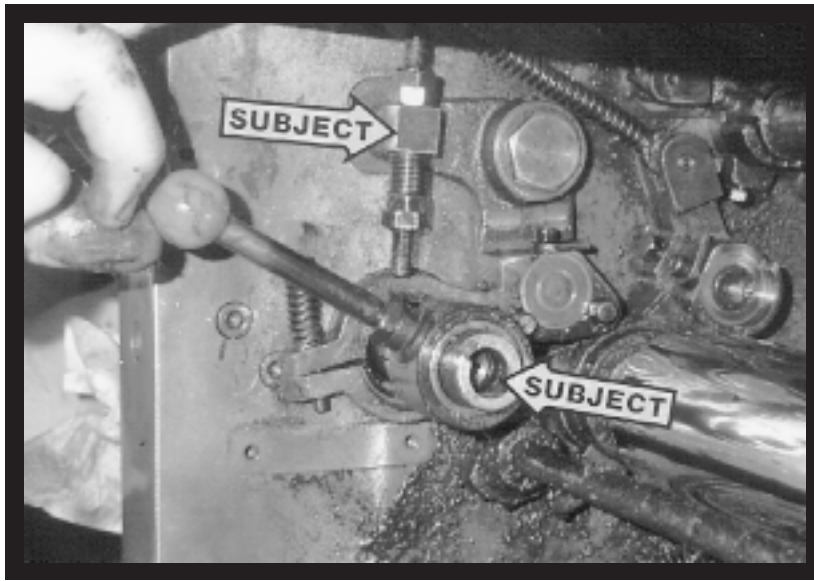
At OPS and NOPS, remove water pan mounting blocks (subject arrow).

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3

At OPS, remove fountain roller drive linkage and adjustment mechanism (subject arrows).

7



## DISASSEMBLY

**4**

At inside OPS, remove fountain roller drive and ductor assembly (subject arrows).

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**5**

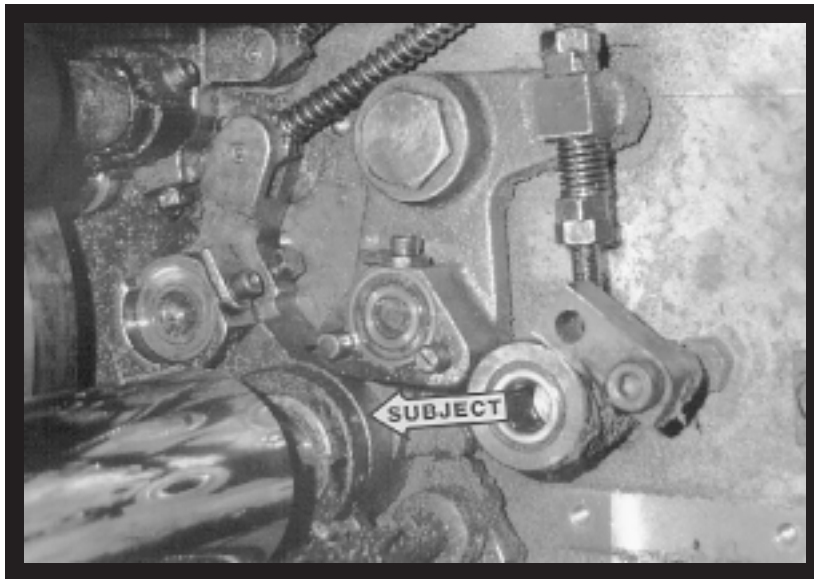
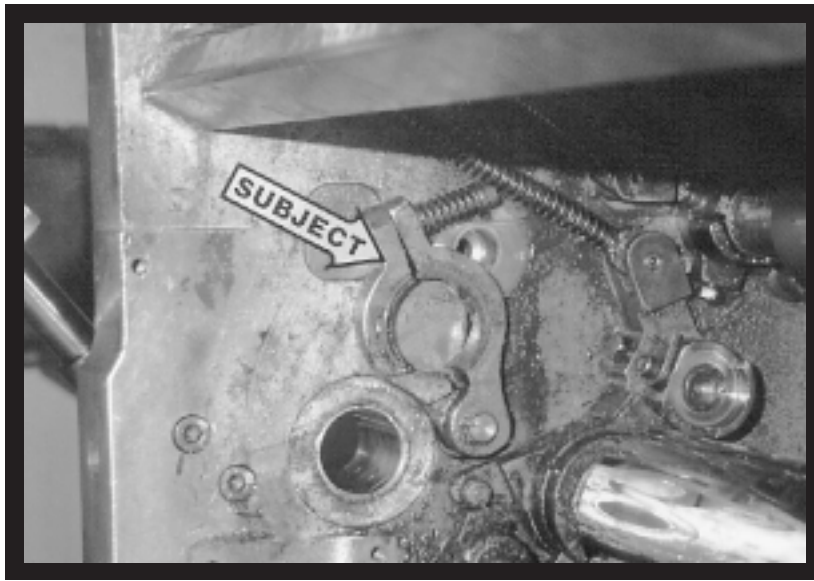
At NOPS, remove fountain roller bearing housing and related parts (right subject arrow). Also, remove ductor assembly (left subject arrow). To remove ductor assembly, you will need to remove the snap ring from the large spur gear on outside NOPS frame. The gear will not come off, but it can be pulled out enough to reach the bolt holding the ductor mechanism to the press frame. Save snap ring from gear for reinstallation.

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**6**

At NOPS, remove bottle bracket (subject arrow). If you are not installing a recirculation device at this time, save bottle bracket for reinstallation.

**9**



## DISASSEMBLY

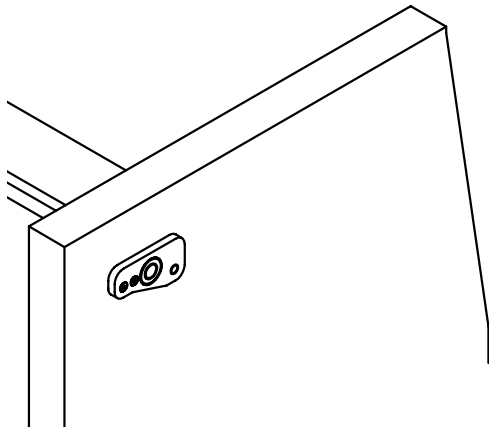
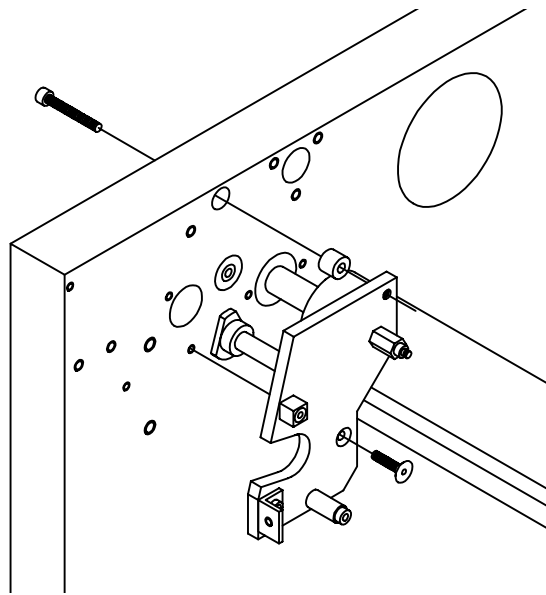
7

At OPS, remove fountain roller brake (subject arrow).

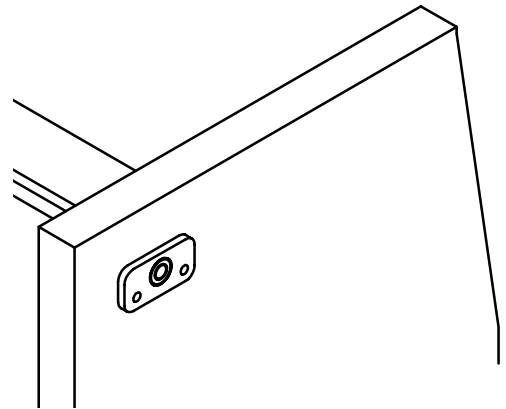
8

Remove the chrome water oscillator as follows:

- A. Loosen set screws in collar that secures the water form hangers to the bronze bushing (subject arrow).
- B. At NOPS, remove oscillator swing arm and save for reinstallation.
- C. Remove cap screws which secure the water form stripe stops to the press frame. Save for reinstallation.
- D. Remove cap screws which secure the bronze bushings to the press frame and pull bronze bushings out. Save for re-installation.
- E. Slide all parts toward the middle of the roller. Push roller all the way to NOPS and tilt and lift roller out of press. Save lower water form hanger (outer hanger) and set collar for reinstallation.



Sakurai 52



Sakurai 52E

# INSTALLATION

**1**

Install new water oscillator provided by following the disassembly steps in reverse order.

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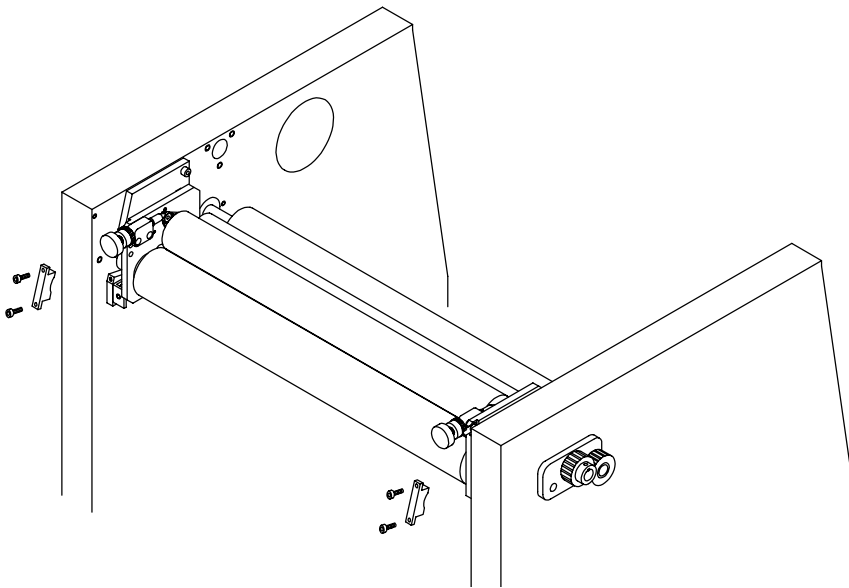
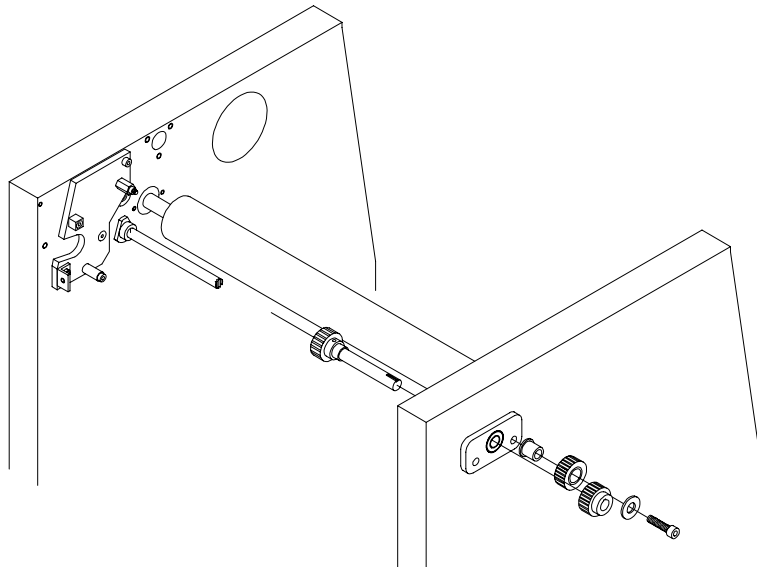
**2**

Install the dampener mounting frames as shown by placing the provided spacer into the frame counter-bore and securing the frames with the provided hardware. The longer of the M8 cap screws goes to the OPS.

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**3**

Outside NOPS, install the gear plate as shown corresponding to the model of press on which you are working. If there is an "X" stamped on the gear plate, make sure that side is facing out. Finger tighten the bolts for now.



## INSTALLATION

**4**

Slip the drive shaft through the mounting frame at NOPS and through the gear plate installed in the previous step. Align the gear plate and fully tighten bolts. Next, place the key in the keyway and slide on the new gear. The gear will be secured either by a set screw in the gear hub or by a set collar on the end of the drive shaft. If not already done, install idler gear and check gear mesh.

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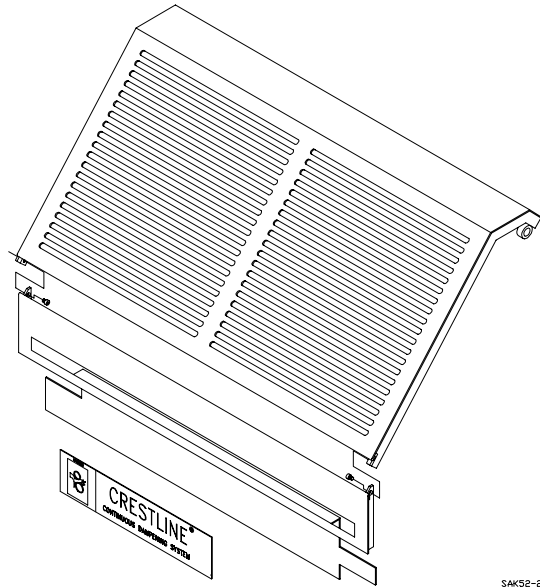
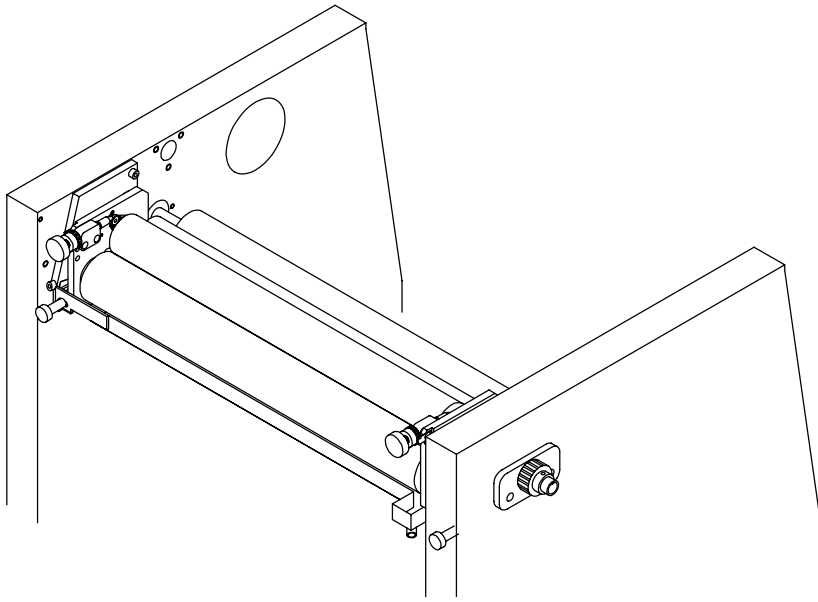
**5**

Install dampener assembly by lowering it into the pockets of the mounting frames. Secure by installing the caps onto the bearings as shown and tighten cap screws. After caps are secure, attach the extension spring at each side between the spring stud.

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**6**

Install the new water form provided.



SAK52-26, 6/97

## INSTALLATION

**7**

Attach the water pan to the water pan blocks and connect hoses. If you are retaining the original bottle, attach the adapter to the press at this time and mount the bracket to it.

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**8**

Replace original safety cover with new one provided. The lower section attaches to the upper section using the provided cap screws. The lower section will pivot around the heads of the bolts.

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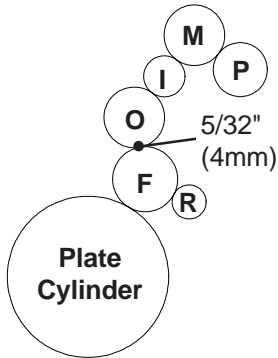


# FINAL ADJUSTMENTS

**1**

## Form to Oscillator

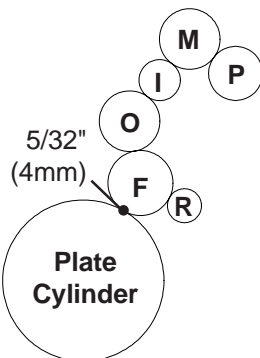
This stripe should be 4 MM and is adjusted exactly as the original dampener by loosening the lock bolt on the form hanger and rotating.



**2**

## Form to Plate

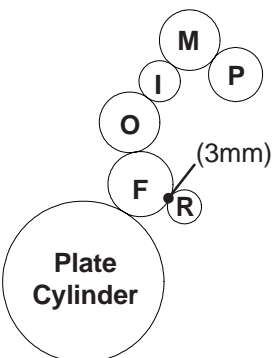
This stripe should be 4 MM and is adjusted exactly as the original dampener by turning the lock nuts down to lessen the stripe and vice-versa.



**3**

## Rider to Form Roller

This stripe should be 3 MM and is adjusted by turning the set screw in the retainer down to increase and vice-versa. Tighten lock nut when finished.



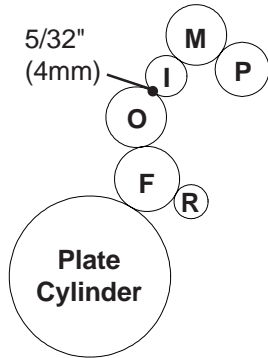


# FINAL ADJUSTMENTS

## 4

### Intermediate to Oscillator

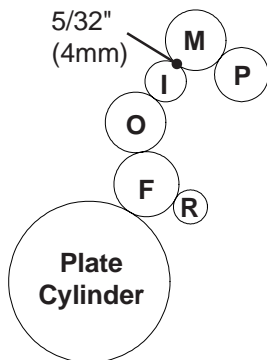
This stripe should be 4 MM and is adjusted by turning the set screws on the side of the dampener. Turning the screws in toward the block decreases the stripe and vice-versa.



## 5

### Metering to Intermediate

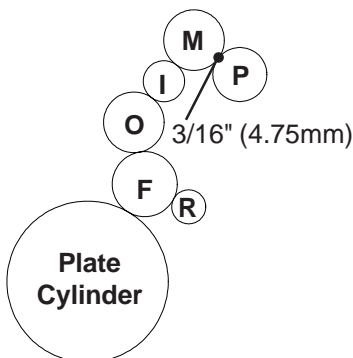
This stripe should be 4 MM and is adjusted by turning the cap screw on the metering roller hanger. Turning the screw in increases the stripe and vice-versa. This screw is held in place by spring tension.



## 6

### Metering to Pan Roller

This stripe should be 4.75 MM and is adjusted by the large black knobs on top of the dampener. When the proper stripe has been obtained, spin the ratchet gears down until they stop and tighten the two set screws in each one. This sets the maximum pressure.



## BASIC OPERATION

### OPERATION PANEL CONTROLS

The features of the Sakurai operating levers and electronic control panels change very little with installation of Crestline®. Probably the most major change is that the original water ductor is no longer on the press so any related controls will no longer have a function. The manual water form levers will still raise and lower the Crestline®, or, if press is fully electronic, the Crestline® will still sequence properly in the press's automatic modes.

### PREPARING THE DAMPENER FOR PRINTING

- A. Make sure all rollers are installed in the Crestline® and the knurled metering knobs are screwed clockwise until they stop.
- B. Apply a very small amount of ink on the dampener oscillator and metering rollers. Turn on press and idle for 30 - 40 seconds to mill ink. **OPTIONAL:** The dampener can be inked after the ink rollers are inked by turning on the press and dropping the ink and water forms to the printing plate. Since the dampener does not yet contain water, the plate will ink up solid and will therefore ink up the dampener. After a very light film of ink has covered the dampener rollers, water can then be turned on and the plate can be cleaned up by turning on the press and dropping the dampener to the plate.
- C. Attach water pan to mounting blocks and attach feed and drain hose from circulator. Close control valve, turn on pump, and slowly open control valve until a slow trickle of fountain solution flows into the pan.
- D. Place all ink and water controls in the "AUTO" mode where applicable.

### ADJUSTING THE AMOUNT OF WATER DELIVERED TO THE PLATE

The amount of water delivered to the printing plate is adjusted by the knurled knobs on top of the dampener. Generally speaking, you should begin all jobs with the knobs turned all the way down. This is the minimum water position for Crestline®.

Should you require more on the plate, turn the knobs counterclockwise one "click" at a time until desired water volume is achieved. Typically, when the press is running slowly such as during make-ready, the Crestline® may need to be opened up one or two clicks to keep proper moisture on the plate, and, then when

## CLEANING & MAINTENANCE

production printing speeds are initiated, the metering knobs can be turned back down.

### FOUNTAIN SOLUTIONS AND ALCOHOL

Accel recommends using the manufacturer's instructions for mixing fountain solution. Generally, a pH factor of 4.0 to 4.5 is recommended for most metal plate solutions. Conductivity should be about 1000 - 1500 mmhos above your base water.

Alcohol is not required for the Crestline® to function properly, but will not harm the dampener if you so desire to use it, provided you keep the ratio under 15 %. Alcohol substitutes may also be used according to the manufacturer's recommendations.

### WASHING UP THE CRESTLINE®

Generally speaking, the Crestline® must be washed up upon each color change and at the end of the day. The following procedures should be followed:

- A. Close circulator control valve, remove brass weir, and allow water pan to drain. If necessary, loosen pan knob at NOPS and drop pan down to aid draining. Turn off circulator pump when pan finishes draining.
- B. Make sure a metal plate is mounted to plate cylinder. Attach washup blade to inker, turn on press and wash inker as normal. When the inker is approximately 50% clean, drop the both the ink and water form rollers to the plate and continue washing the inker. Typically, the dampener will pick up enough solution off the plate to clean itself. Avoid applying excess wash directly to the dampener as most of it will end up in the water pan.
- C. When all the ink and water rollers are clean, be sure to wipe the excess wash that may accumulate on the ends of the Crestline® rollers.
- D. Remove water pan and inspect for any excess wash that may have dripped from the dampener rollers. If needed, wipe the pan clean and remount.
- E. If this is the last washup of the day, spin the knurled knobs counterclockwise to relieve the pressure. Be sure to spin these knobs back down before beginning the next day.

## 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. If you prefer a commercially available deglazer, avoid those 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.

### OILING AND GREASING THE DAMPENER

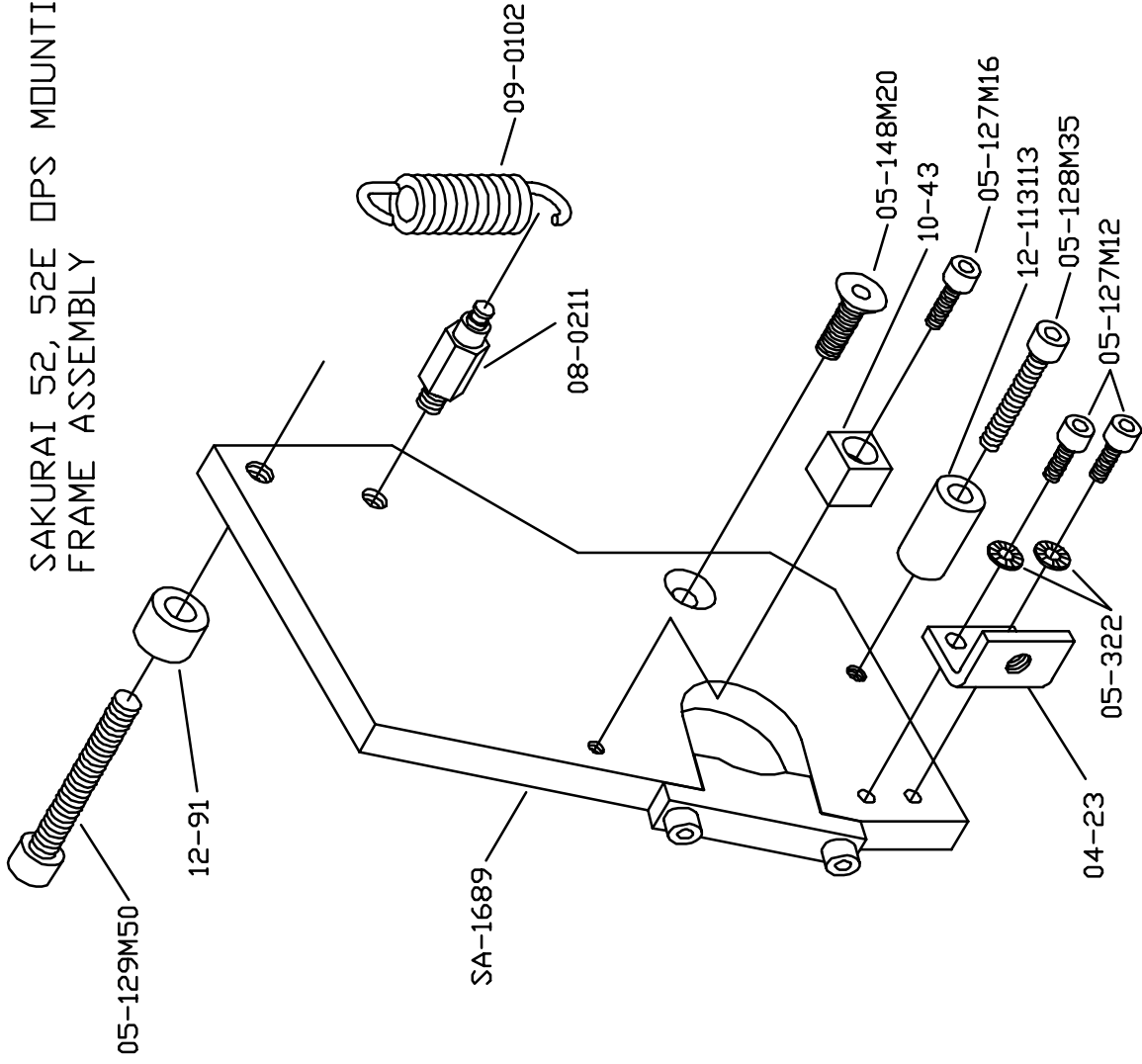
- A. Place a small amount of grease on the gears once a month.
- B. Inject grease into the oscillator grease fitting once a month.

# CLEANING & MAINTENANCE

## CRESTLINE® CLEANING & MAINTENANCE CHART

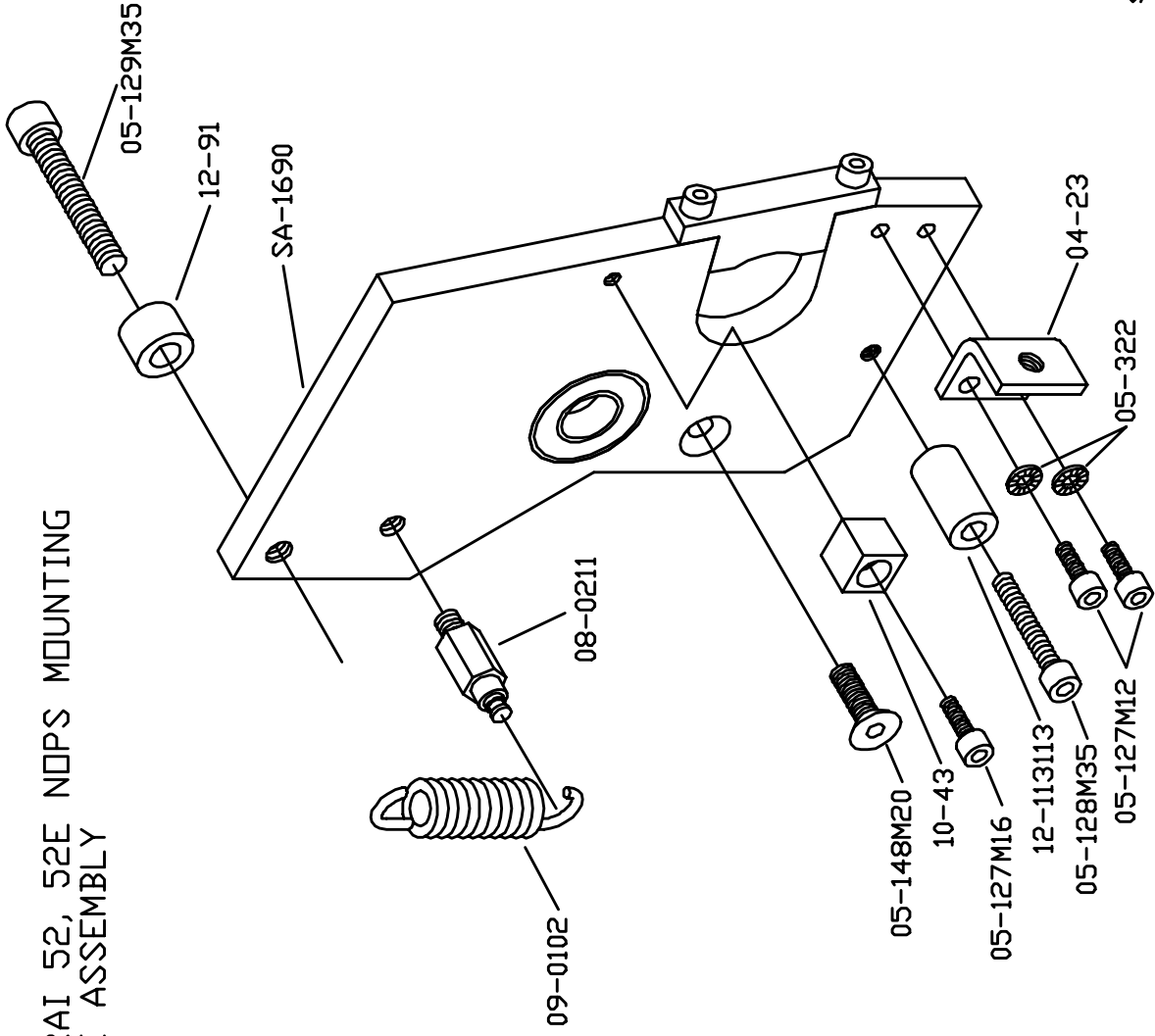
|                           | Daily | Weekly | Bi-Weekly | Monthly |
|---------------------------|-------|--------|-----------|---------|
| Wash Rollers              | ✓     |        |           |         |
| Deglaze Rollers           |       |        |           |         |
| Metal Plate Users         |       |        | ✓         |         |
| Silvermaster Plate Users  |       |        | ✓         |         |
| Electrostatic Plate Users |       | ✓      |           |         |
| Grease Gears              |       |        |           | ✓       |
| Inspect Ball Bearings     |       |        |           | ✓       |
| Check Roller Pressures    |       |        |           | ✓       |
| Check Roller Surfaces     |       |        |           | ✓       |

SAKURAI 52, 52E OPS MOUNTING  
FRAME ASSEMBLY



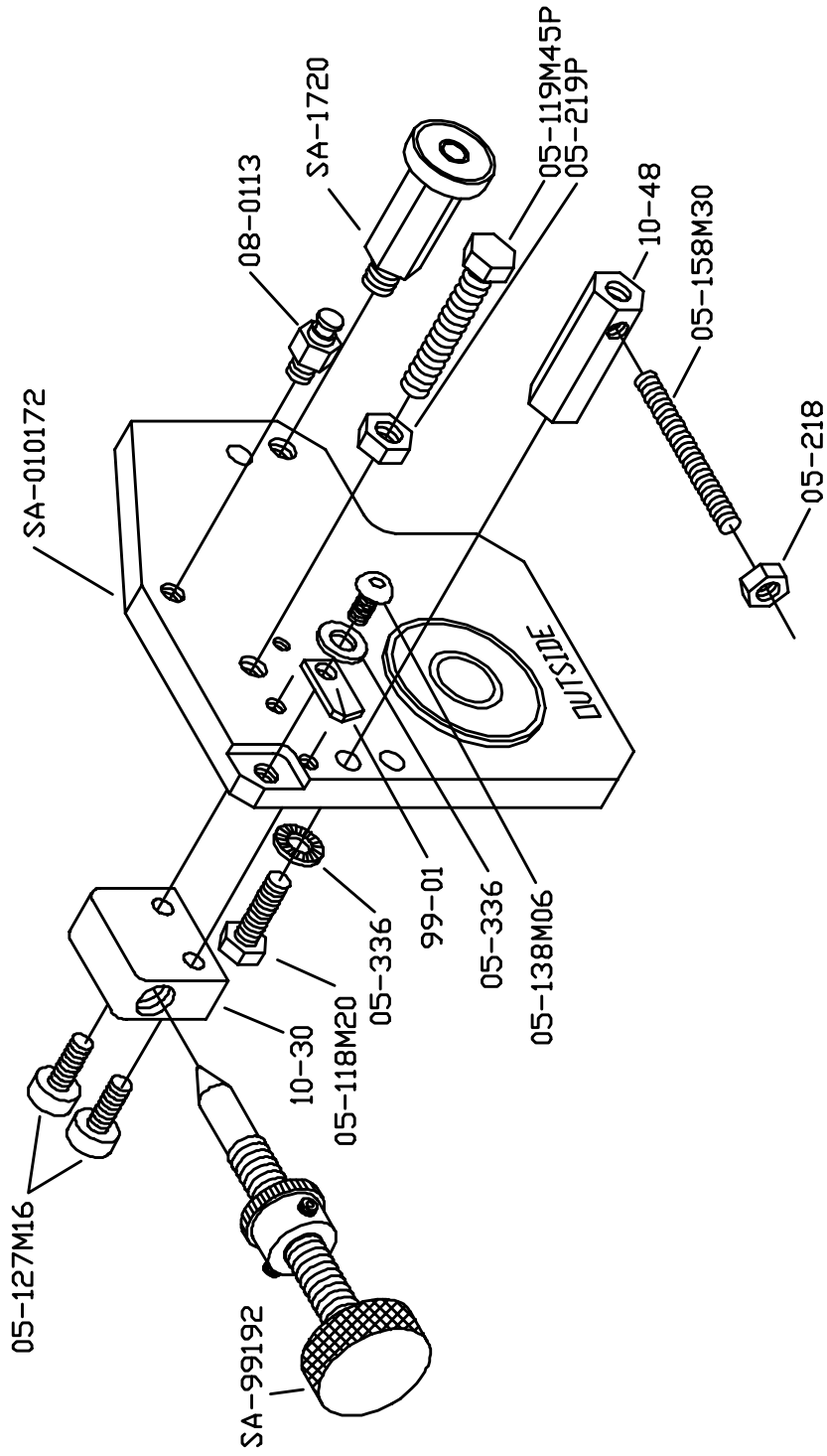
SAK52-09, 2-97

SAKURAI 52, 52E NOPS MOUNTING  
FRAME ASSEMBLY

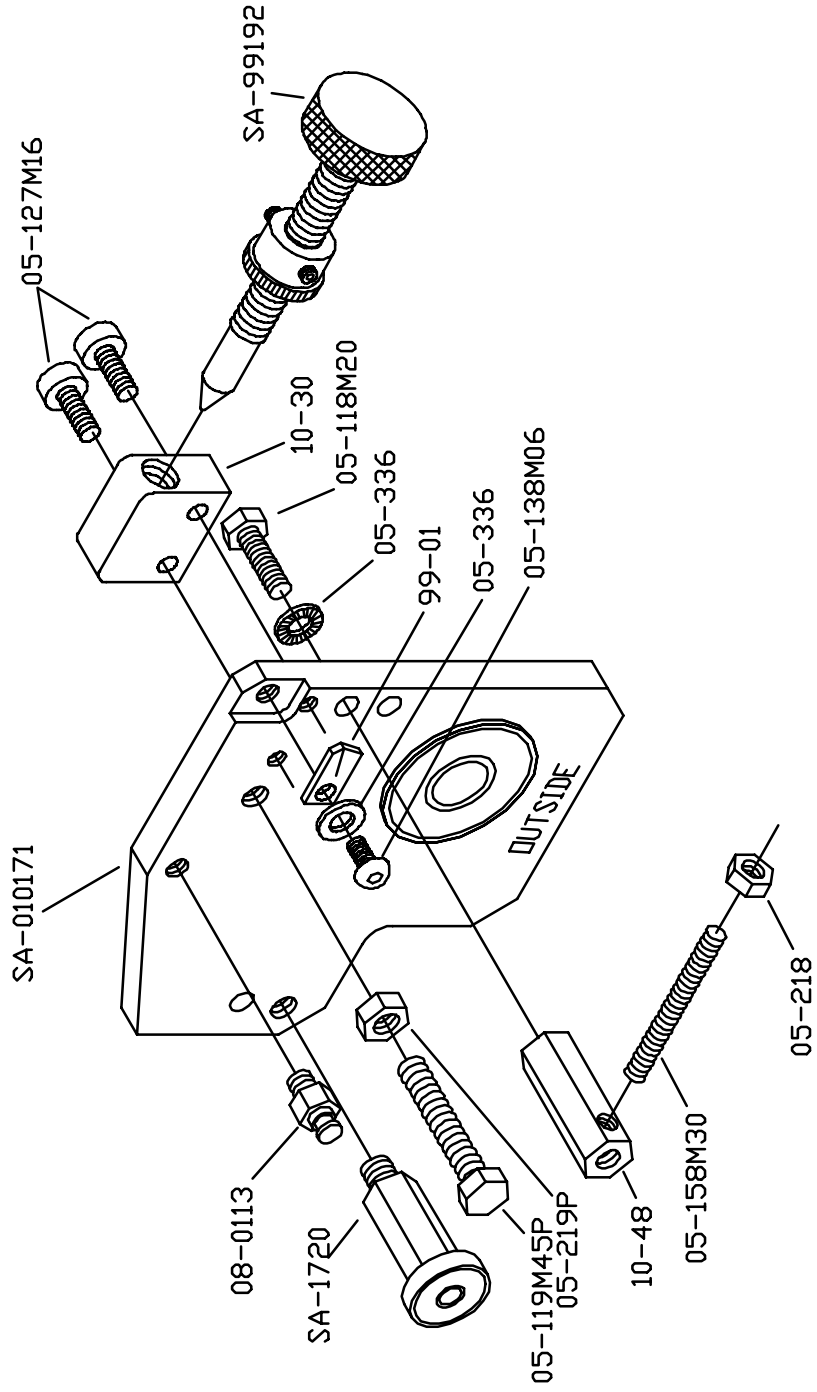


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SAKURAI 52, 52E NOPS DAMPENER FRAME ASSEMBLY

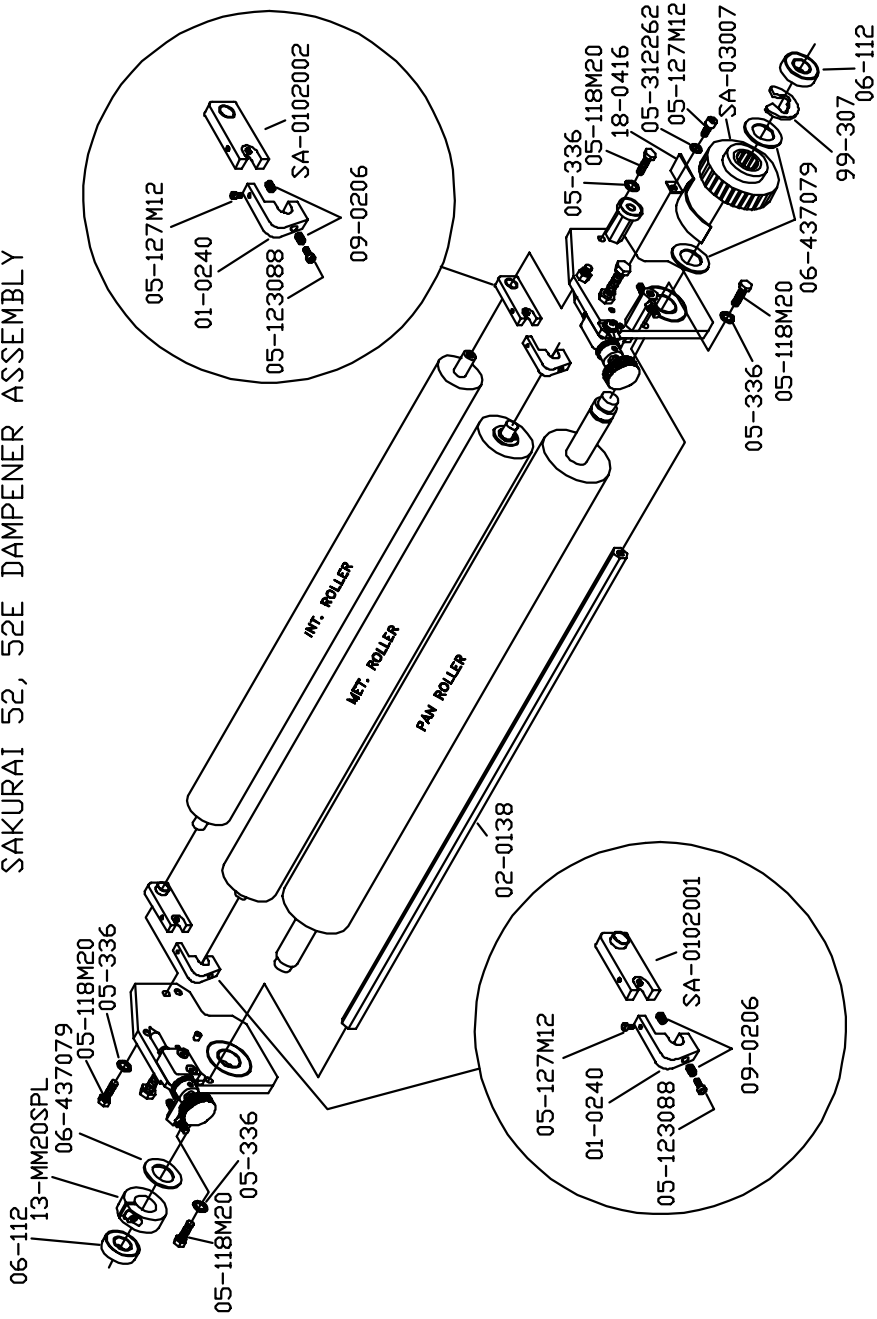


SAKURAI 52, 52E OPS DAMPENER FRAME ASSEMBLY



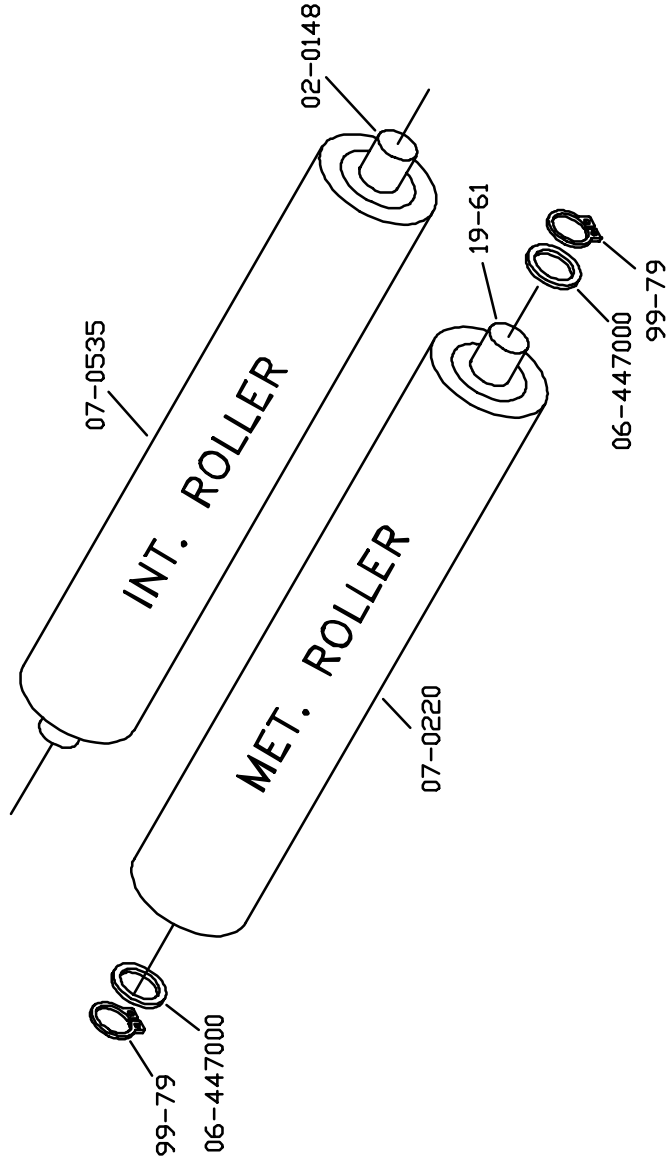
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SAKURAI 52, 52E DAMPENER ASSEMBLY



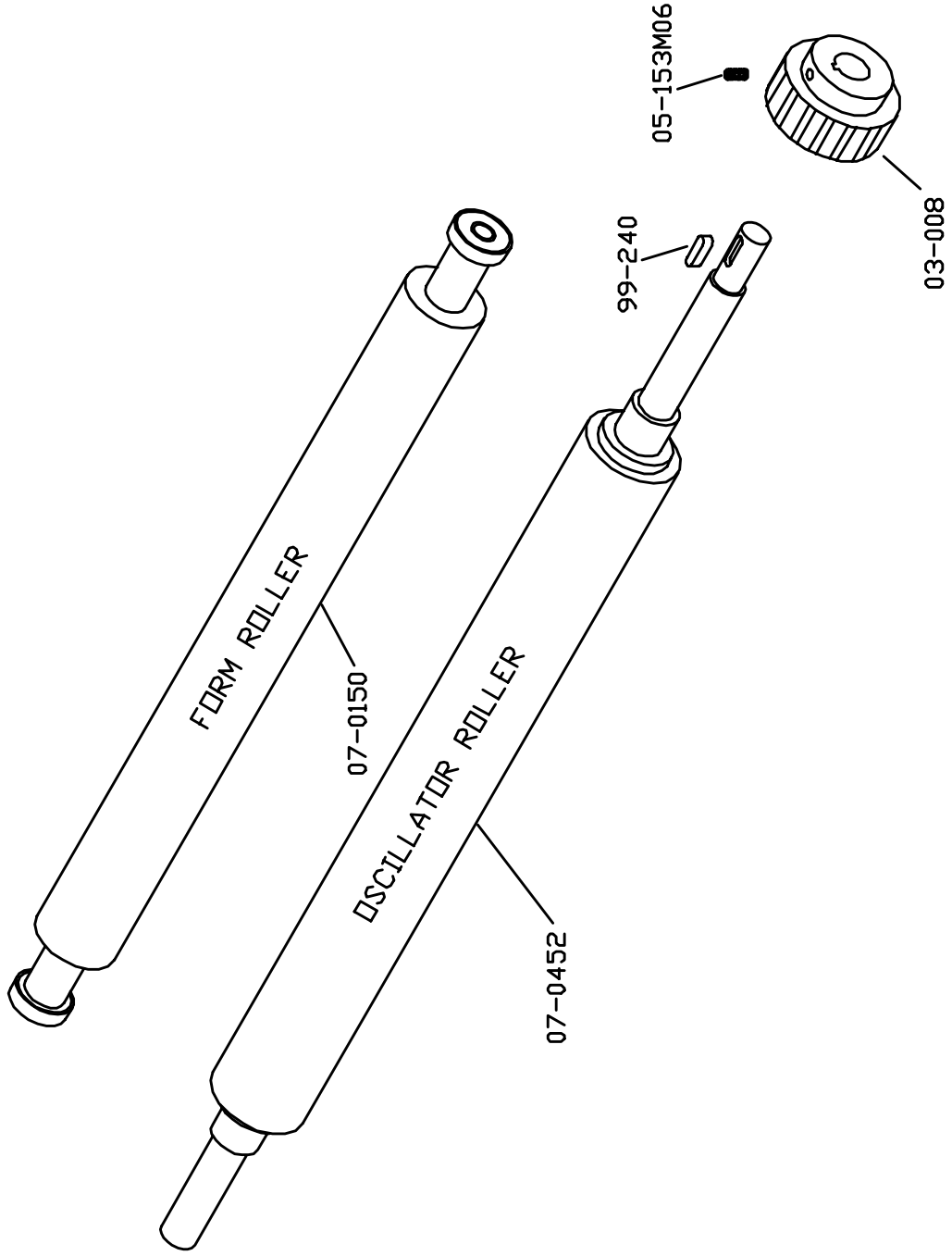
SAK52-15, 2-97

SAKURAI 52, 52E METERING AND INTERMEDIATE ROLLER ASSEMBLY



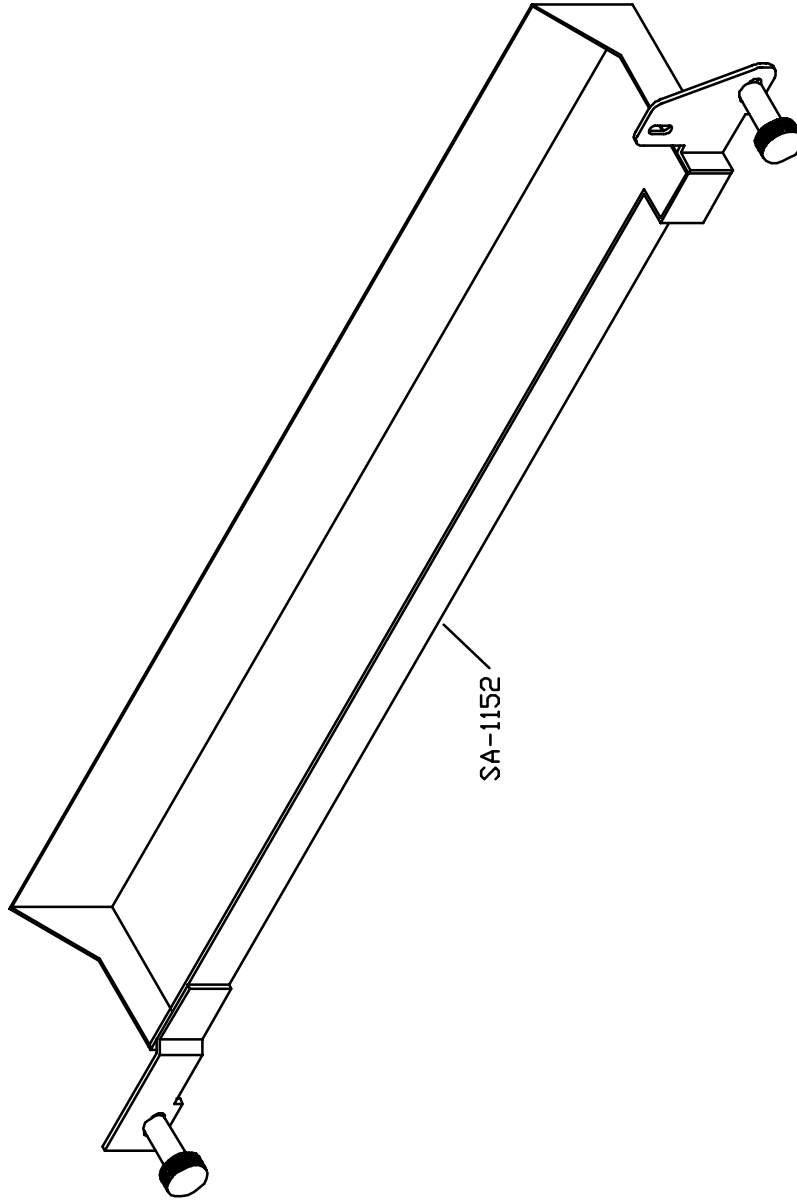
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SAKURAI 52, 52E FORM AND OSCILATOR ROLLER ASSEMBLY



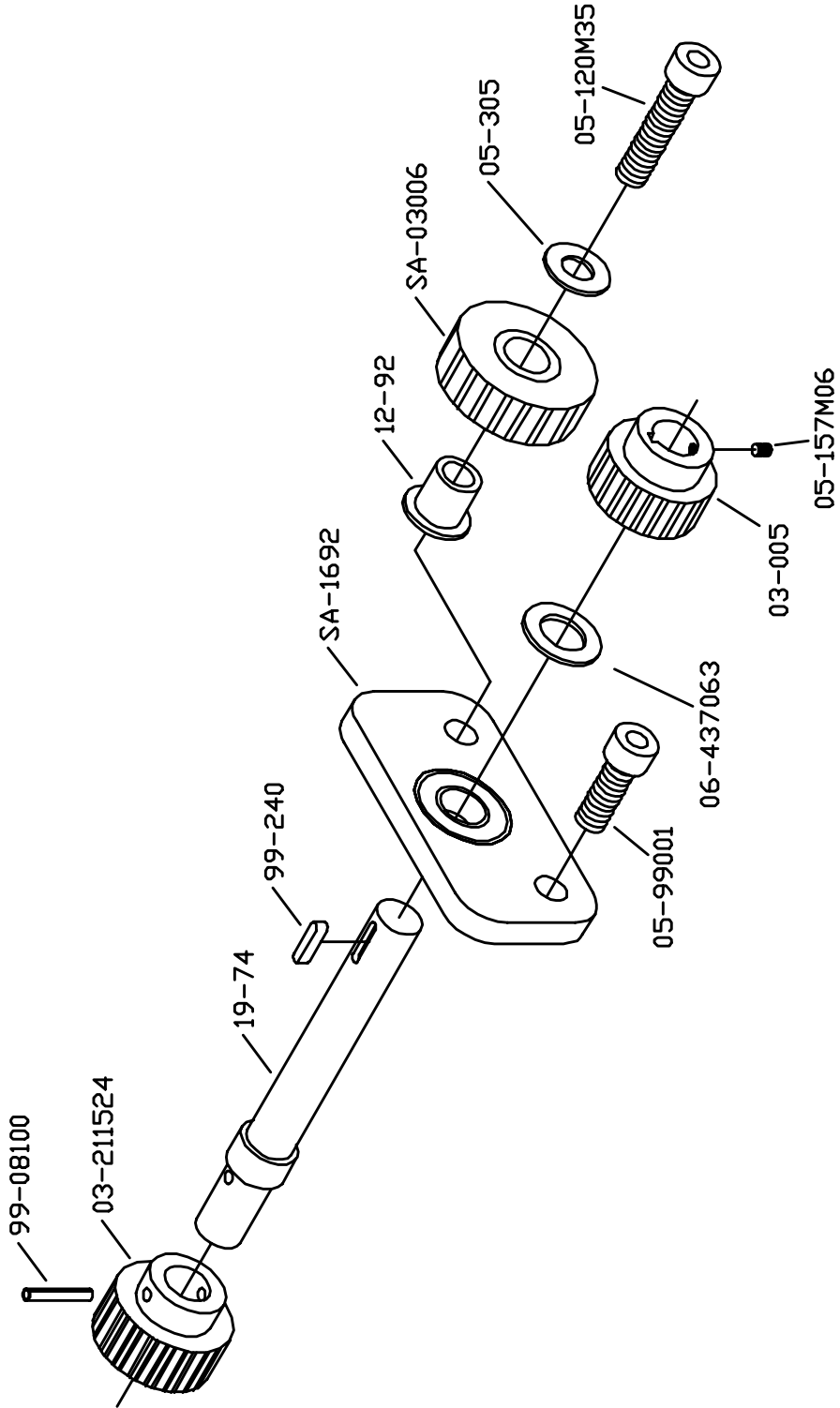
SAK52-17, 2-97

SAKURAI 52, 52E WATER PAN ASSEMBLY



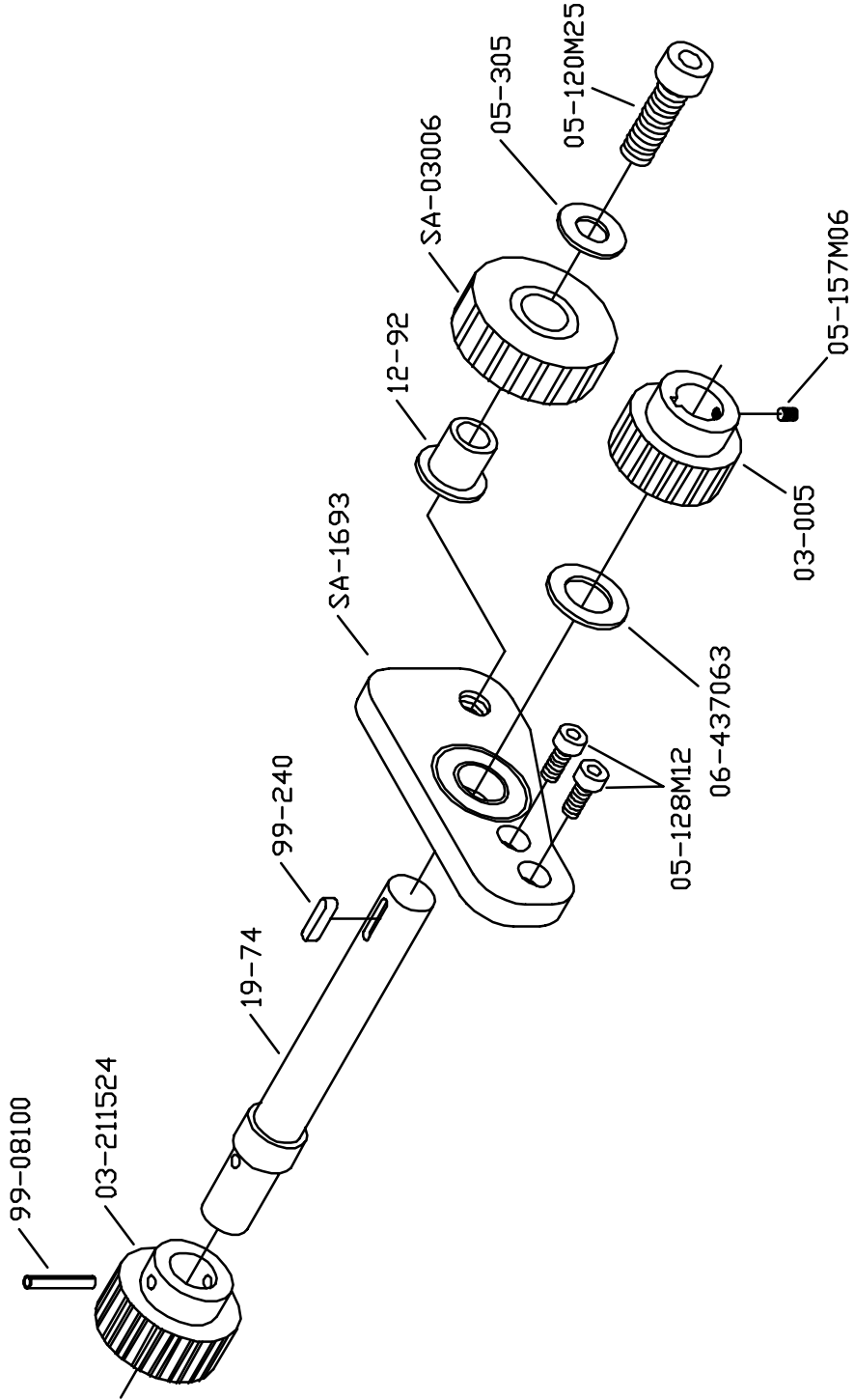
SAK52-18, 2-97

SAKURAI 52E GEAR ASSEMBLY



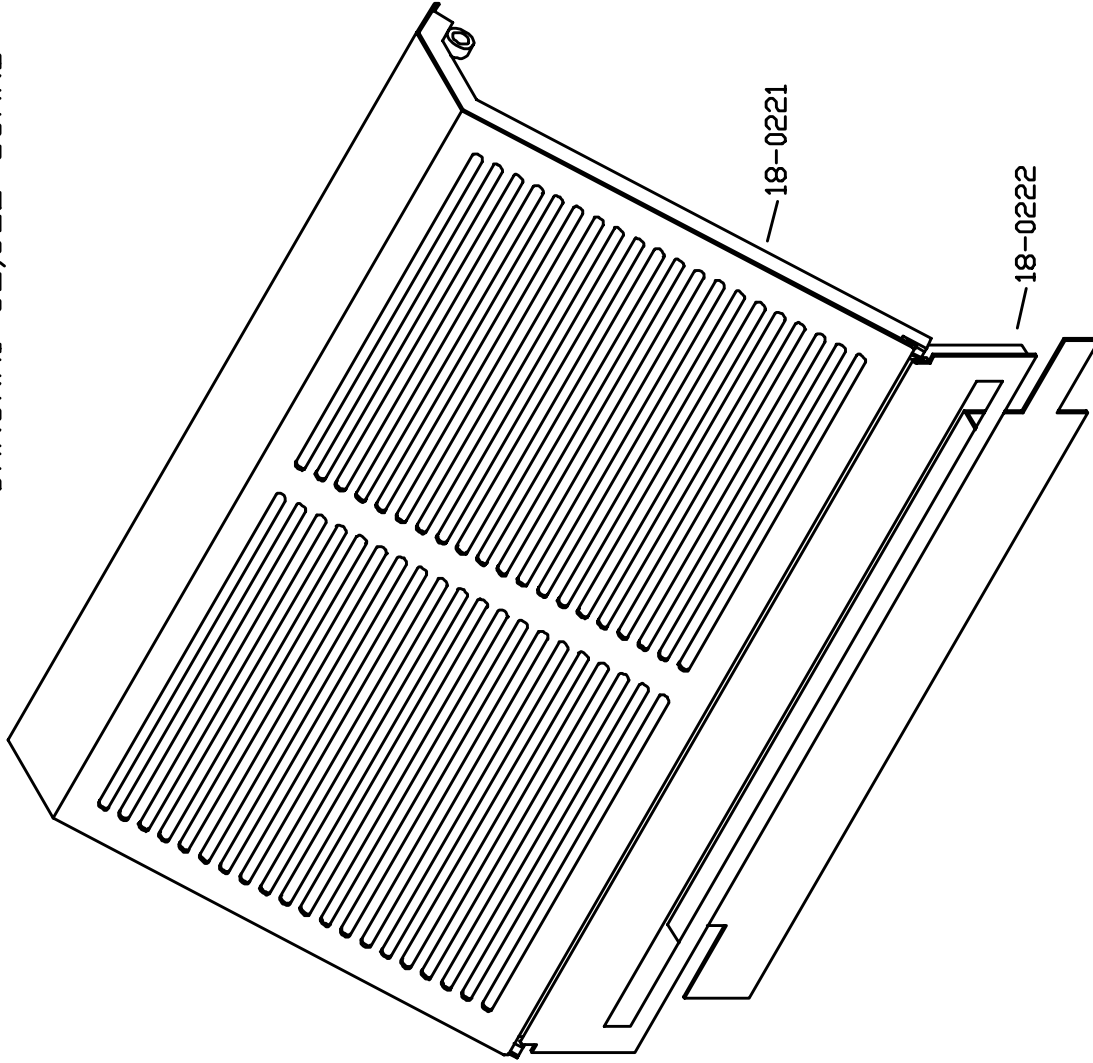
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SAKURAI 52 GEAR ASSEMBLY



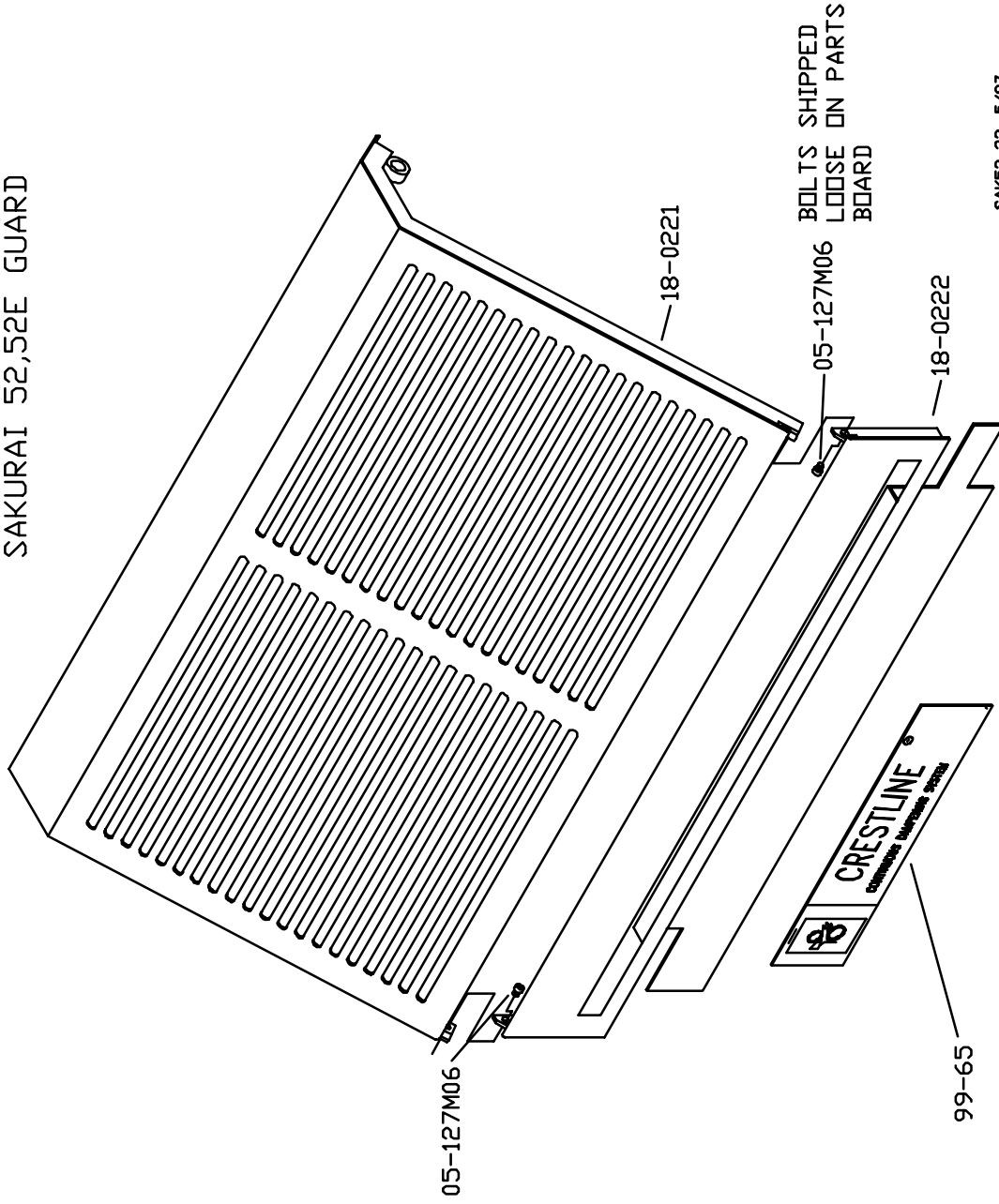
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SAKURAI 52,52E GUARD



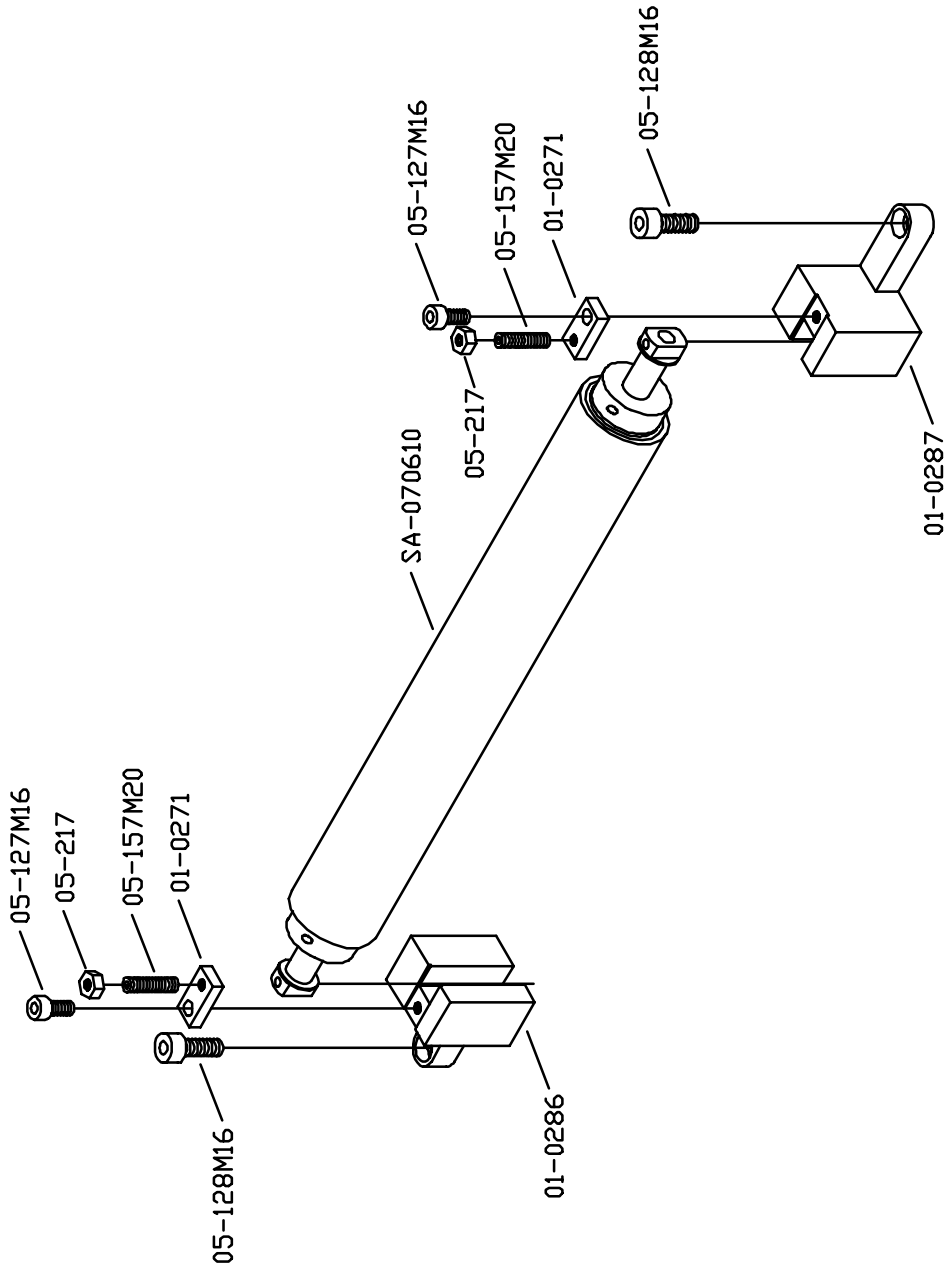
SAK52-21, 2/97

SAKURAI 52,52E GUARD



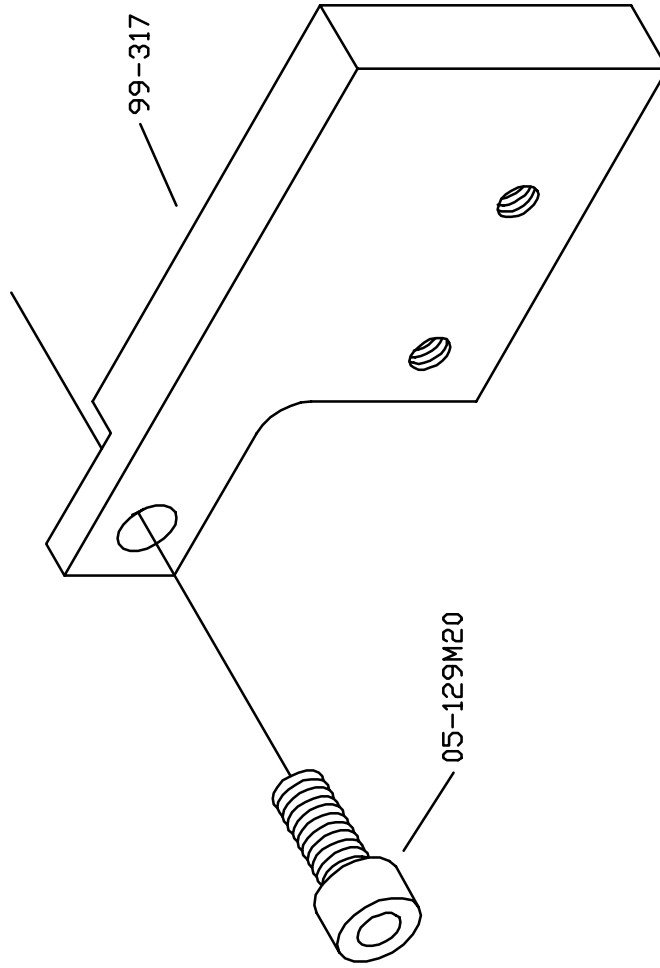
SAK52-22, 5/97

SAKURAI 52,52E RIDER ROLLER



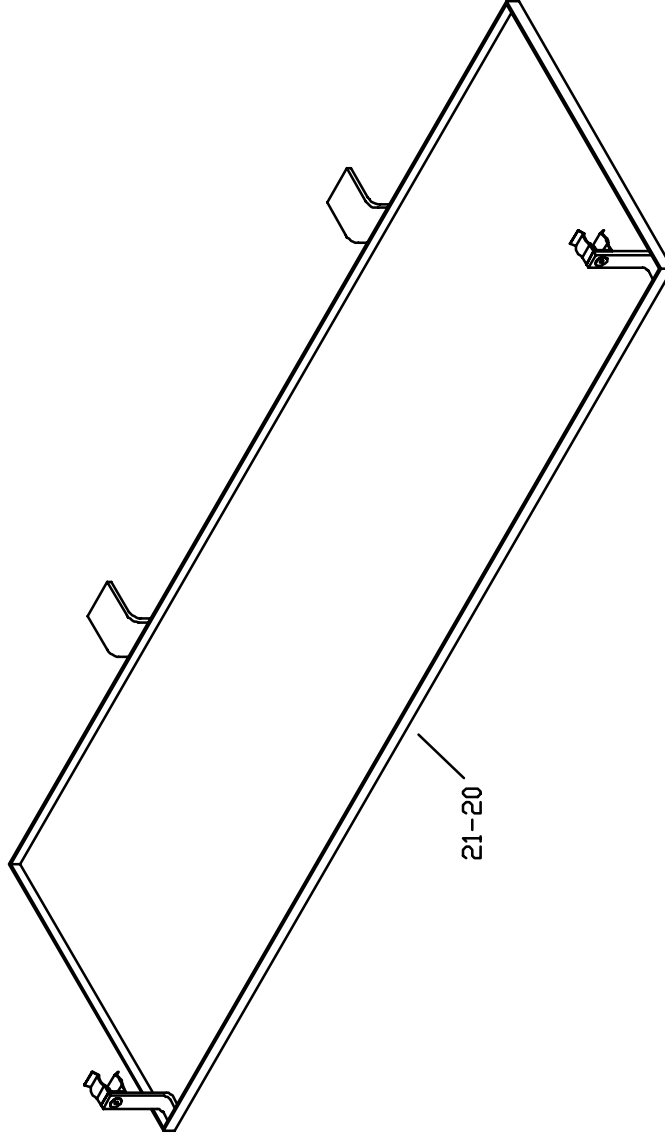
SAK52-23, 5/97

SAKURAI 52,52E BOTTLE BRACKET



SAK52-24, 5/97

SAKURAI 52, 52E DRIP TRAY



SAK52-25, 5-97



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