

# MITSUBISHI GRAPHIC ARTS SYSTEM

SILVER MASTER SYSTEM

# CP-50SII

OPERATION MANUAL

\*\*\*\*\*  
\* PLEASE READ! \*  
\*\*\*\*\*

For safe operation of this machine, please read the following precautions carefully and completely.

## Operation safety precautions

- (1) Please read all instructions carefully and completely before operation. If there are any difficult to understand instructions, consult our representative or Sales Office.
- (2) Be sure to connect this machine to a circuit breaker. The rated output is shown on the name plate. The breaker trip current should be 30 mA. All wiring should be done by a qualified electrician.
- (3) Be sure to connect the ground (earth) lead (green/yellow spiral). The wiring should be done by a qualified electrician.
- (4) The processing solutions may cause damage to your eyes or skin, therefore please read the precautions on the solution container before use.
- (5) Before removing the covers from the main body, turn OFF the machine power switch and the main power switch. The machine contains electrical components that may cause electrical shock.
- (6) Avoid looking directly at the light source lamp, while it is ON. If your eyes have been affected by the light, consult an eye specialist immediately.
- (7) If the lamp or fuses require replacement, contact our Service Department or representative.
- (8) This machine contains motors with thermal overload protectors. The motors restart automatically, therefore be sure to turn OFF the machine power switch and main power switch before servicing or maintenance.
- (9) If a longer power cord is necessary, please contact our Service Department or representative.
- (10) If the power cord has been damaged or has any signs of wear, stop the operation of the machine immediately and contact our Service Department for repair.
- (11) To prevent damage to the power cord, do NOT place the power cord near or around table legs or counter edges.
- (12) Do NOT step-on or pull the power cord.
- (13) Be careful not to allow children near the machine while it is in operation. Also, do NOT leave the machine unattended while it is in operation.

## NOTE

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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# 1. Introduction

Thank you very much for selecting our Silver Master Platemaker CP-50SII. The CP-50SII makes offset masters simply and directly from the original, without film processing.

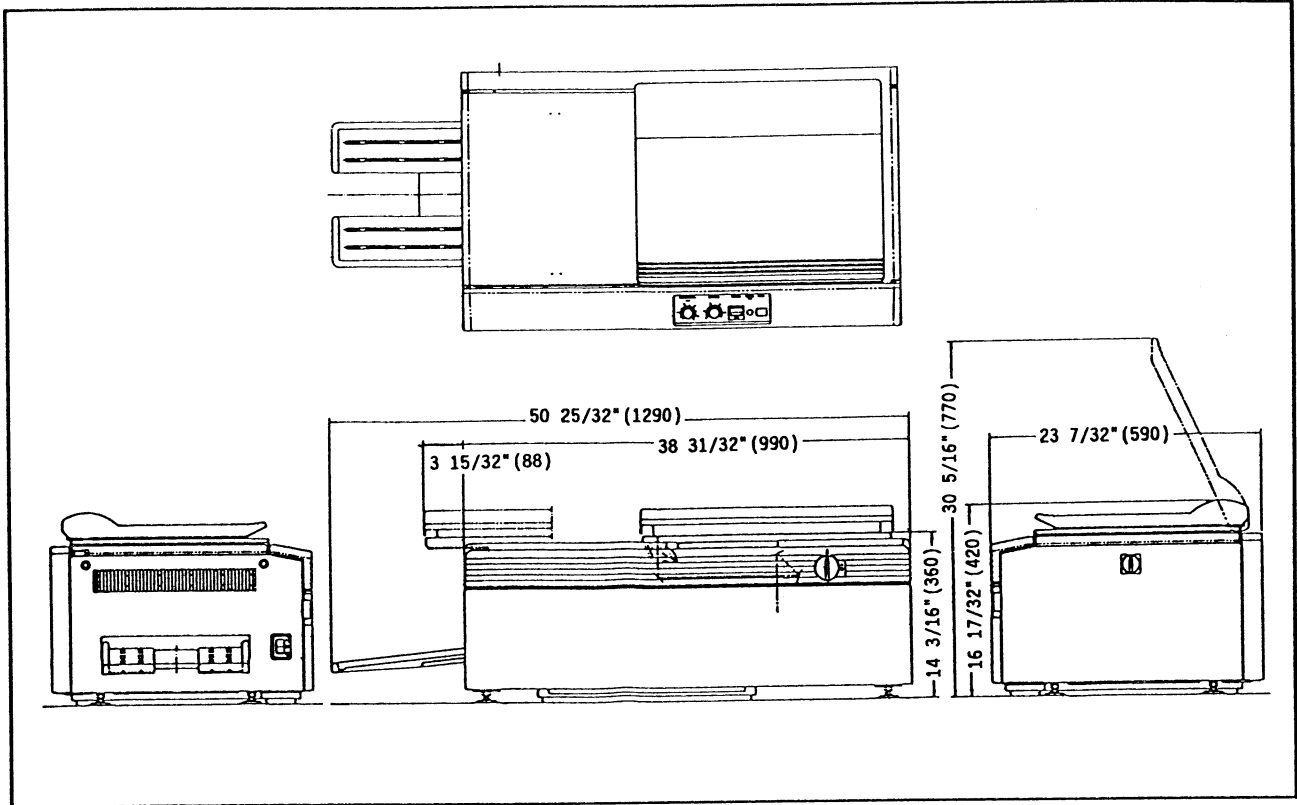
To keep the CP-50SII in excellent operating condition for a long time, please read this manual carefully and completely.

For printing operation information, please refer to the separate "Silver Master Technical Guide".

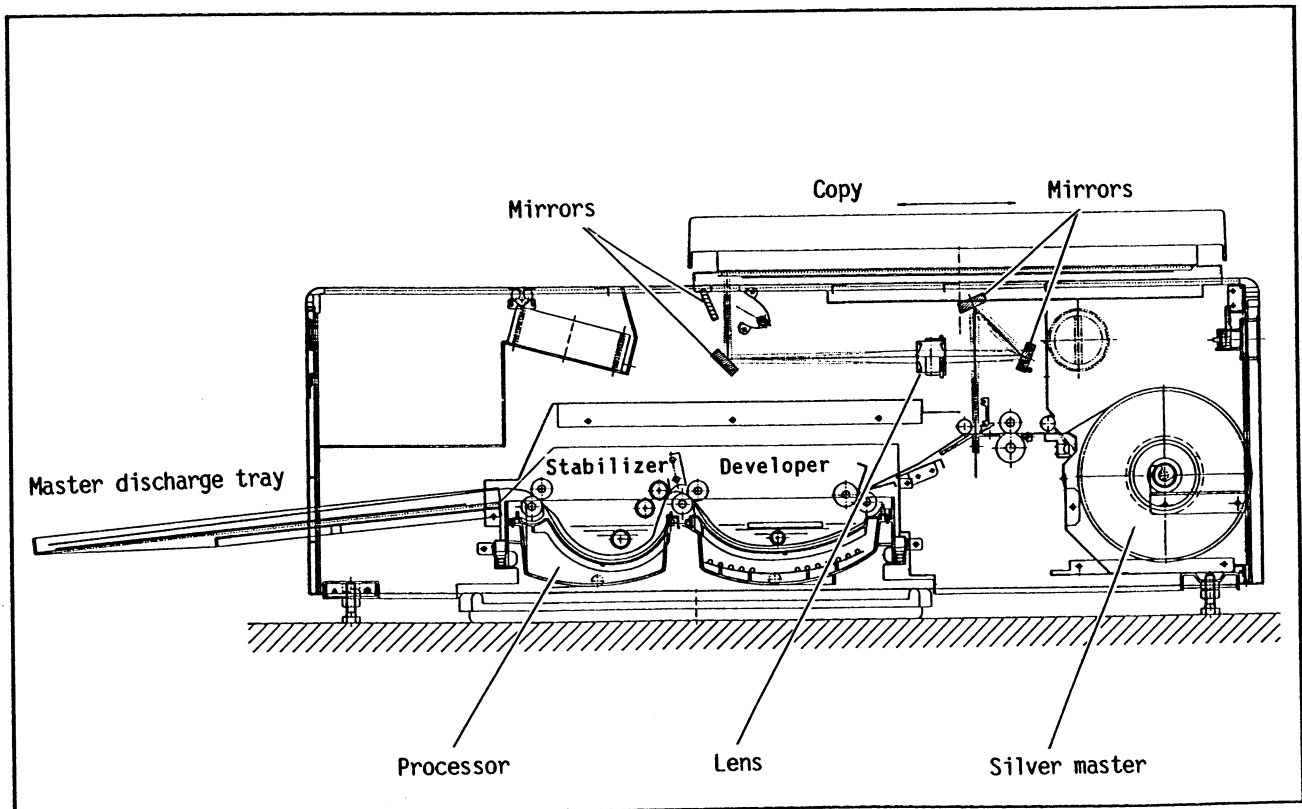
## 2. Specifications

No.	Item	Specification
1	Master	Roll qty.: 1; SLM-R11, SLM-F175, SLM-F175CD, SLM-F100
2	Effective image size	11" X 16 15/16" (27.9 X 43.0 cm)
3	Max. image size	11 1/4" X 18 15/16" (28.6 X 48.1 cm)
4	Max. original backing size	15 9/16" X 21 21/32" (39.5 X 55.0 cm)
5	Master width	8 21/32" (22.0 cm), 9" (22.9 cm), 10" (25.4 cm), 11" (27.9 cm), 11 1/4" (28.6 cm)
6	Master cut length	14 19/32" ~ 18 15/16" (37.0 ~ 48.1 cm)
7	Master end detection	Indicator lamp
8	Exposure method	Synchronized original and master movement, slit exposure
9	Light source	Halogen lamp (1) (80V 600W)
10	Magnification	100% (1:1)
11	Cutter	Slide-cut type
12	Original placement	Original, face-down
13	Exposure control	Analog illumination control, 1~23
14	Control panel	Push button type, "START OK" displayed (independently of solution temperature)
15	Film processor	Immersion type, developer : 3.16qt (3.0 ℓ) stabilizer: 2.85qt (2.7 ℓ)
16	Replenisher tank	Level replenishment type, developer : 0.53qt (0.5 ℓ) stabilizer: 0.53qt (0.5 ℓ)
17	Solution temperature control	84.2°F ± 5.4°F (29°C ± 3)
18	Initial master-process time	1 min. 8 sec. (60 Hz), 18 15/16" (48.1 cm) feed length
19	Cycle time	46 sec. (60 Hz), 18 15/16" (48.1 cm) feed length
20	Power	1 φ 115V 1.2kW
21	Dimensions (W X D X H)	38 31/32" X 23 7/32" X 16 17/32" (99 X 59 X 42 cm)
22	Weight (without solutions)	1541b (70kg)

### 3. Entire View



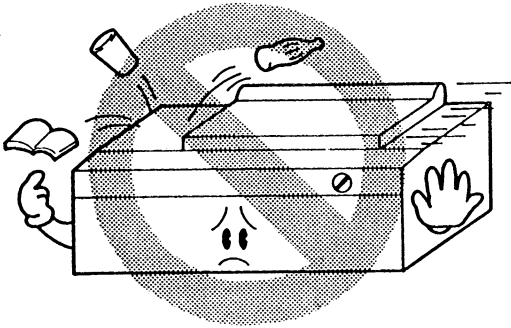
### 4. Processing Path





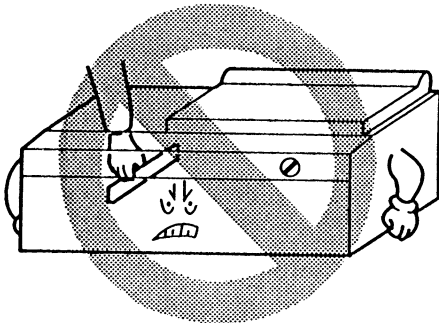
## 5. Precautions

Do NOT place objects on top of the machine!



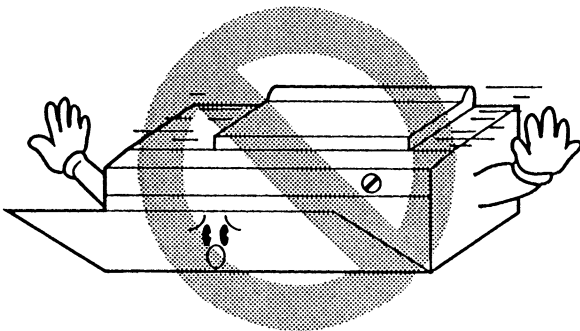
Do NOT place objects on top of the machine. When the Start button is pressed, the copy board moves to the left. Please, be careful not to allow foreign matter to get between the copy board rails and the control panel opening.

Do NOT touch!



Do NOT touch the lens or mirrors with bare hands. It may cause deterioration of the image quality.

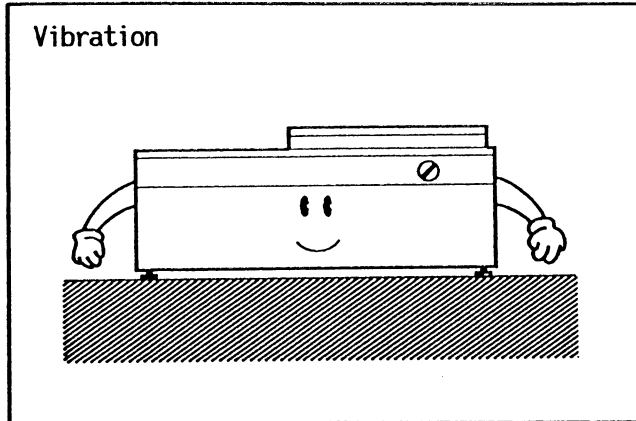
Do NOT turn OFF the power during exposure!!



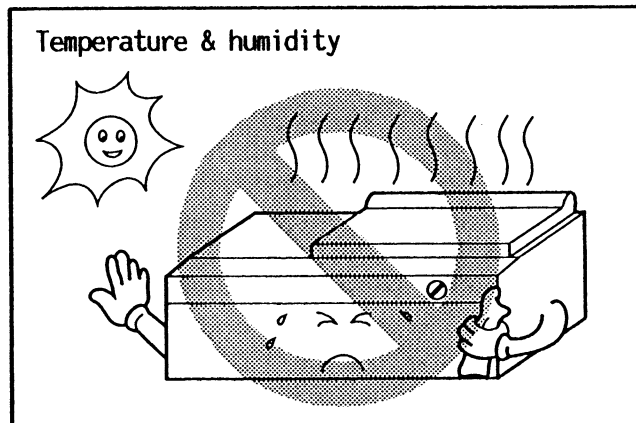
Do NOT turn OFF the power or open the front cover or the discharge-side upper cover during exposure.

After the power is turned ON again, the master is discharged without being cut. (Refer to P.22 for correction.)

## 6. Installation Requirements

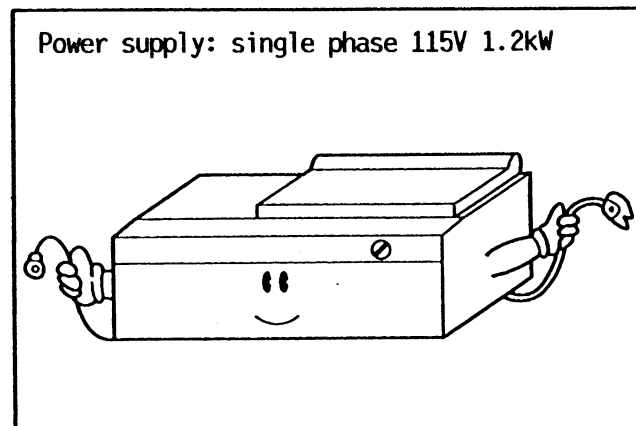


The machine weighs 154lb(70kg) without solutions. Therefore, install the machine on a stable, level base.

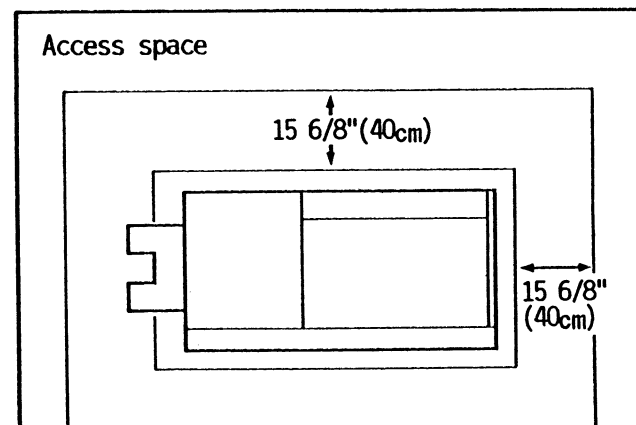


The operating temperature range is 50~86 °F(10~30°C) and the humidity range is 40~70%.

Avoid direct sunlight.



- Use only the power cord supplied with the machine and its corresponding outlet. The voltage variation must be within  $\pm 10\%$  of the specified rating.
- Connect the machine to a circuit breaker. The wiring should be done by a qualified electrician.
- Be sure to connect the ground (earth) lead, to avoid electrical shock.



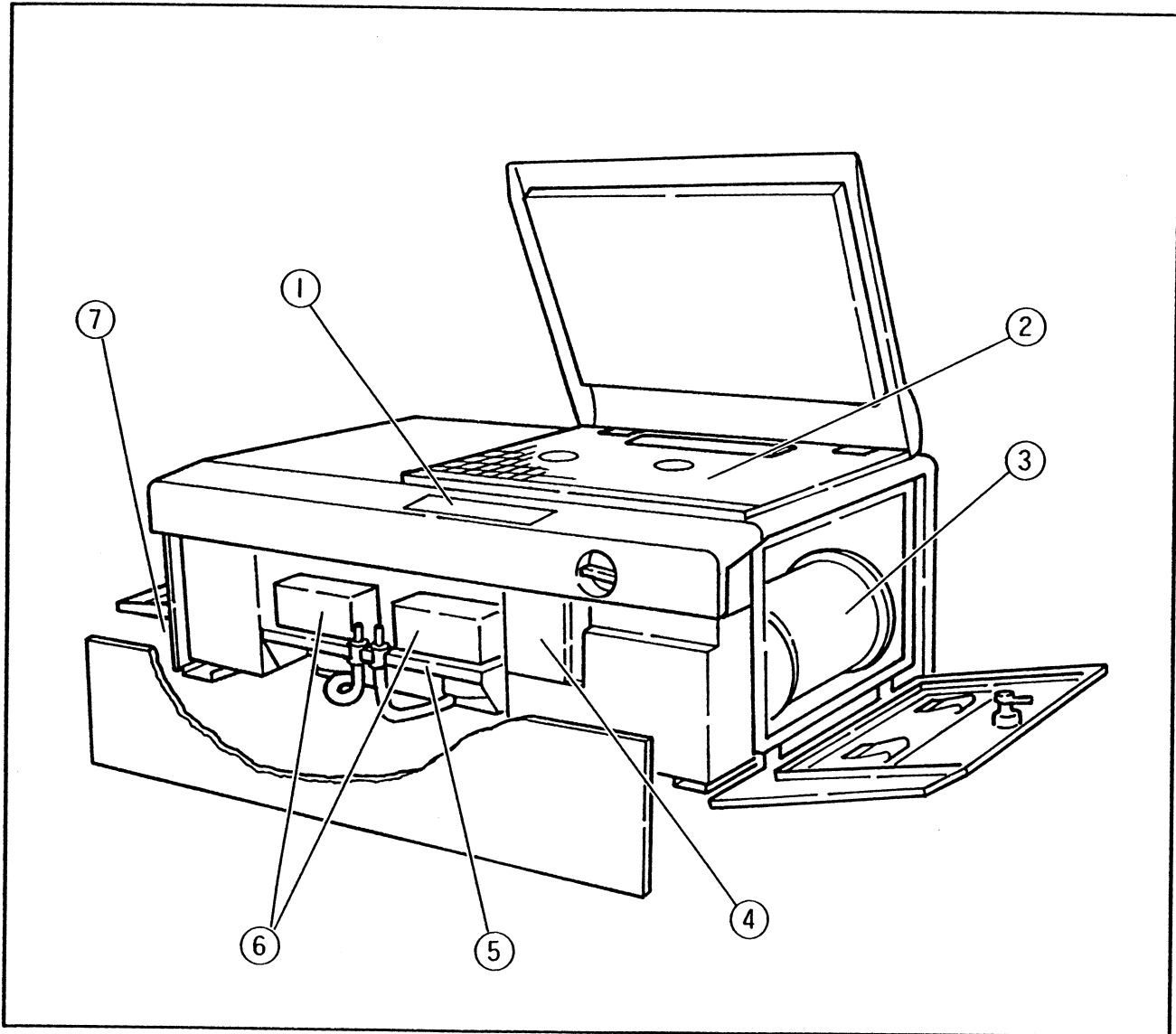
Allow enough access space around the machine for maintenance and service.

Machine dimensions:

38 31/31"(W) X 23 7/32"(D) X 16 17/32"(H)  
(99(W) X 59(D) X 42(H) cm)

# 7. Components and function

## 7-1 Component location



① Control panel

② Copy board

③ Master compartment

④ Cutter unit

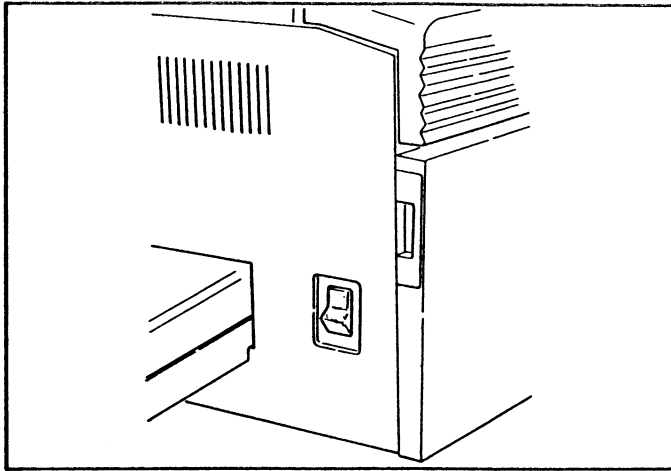
⑤ Processor unit

⑥ Replenisher tank

⑦ Power switch

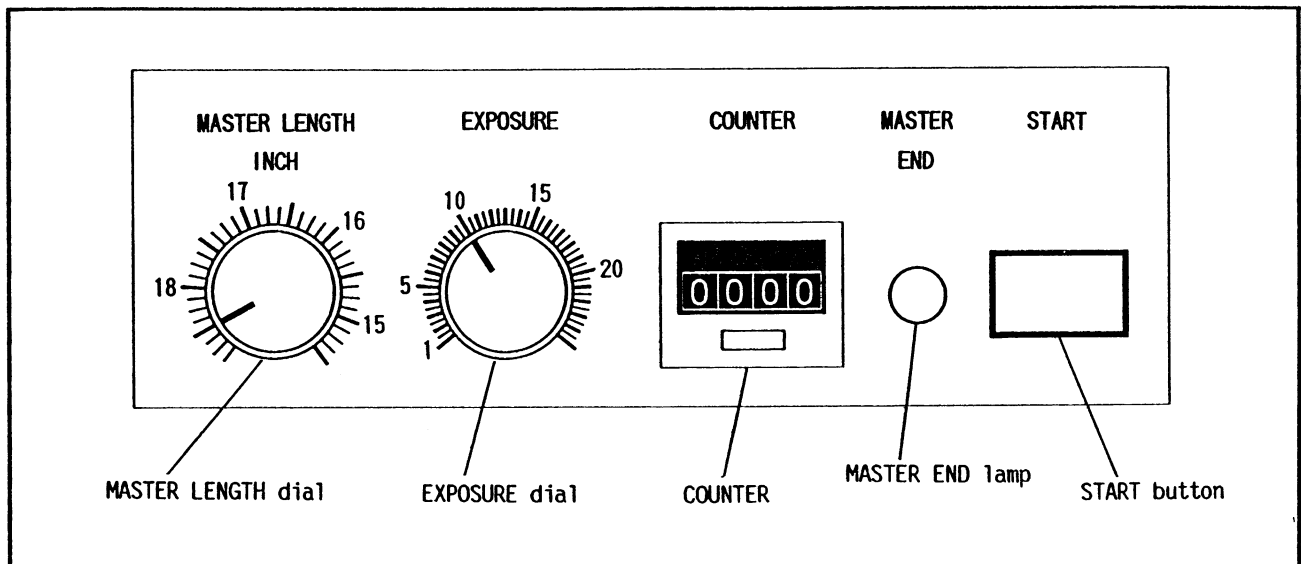
## 7-2 Power switch and control panel

### Power switch



When the switch is turned ON, the control circuit, processor motor and panel heater are activated and the machine will go into stand-by.

### Control panel



Name and function

① START button	<ul style="list-style-type: none"><li>▪ When the START button is pressed, while the lamp is lit, the exposure will start.</li><li>▪ During exposure, the lamp is OFF. When the lamp is ON, after completing the exposure, the next exposure can be started.</li></ul>
② MASTER END lamp	<ul style="list-style-type: none"><li>▪ When the master roll has reached the end, the lamp will light.</li><li>▪ The lamp will be lit, if the master roll has been installed incorrectly. If lit, re-install the master roll.</li><li>▪ While the lamp is lit, the machine can NOT be started even if the Start button is pressed.</li></ul>
③ COUNTER	<ul style="list-style-type: none"><li>▪ This indicates the quantity of processed masters. When replacing the solutions or installing a master roll, press the reset button to clear the counter. The counter is used as a control reference.</li></ul>
④ EXPOSURE dial	<ul style="list-style-type: none"><li>▪ Used for controlling the light intensity during exposure, in relation to the original density and type.</li></ul>
⑤ MASTER LENGTH dial	<ul style="list-style-type: none"><li>▪ Used for setting the master feed-length. Range: 14 19/32" - 18 15/16"</li></ul>

## 8. Solution Preparation

### 8-1 Mixture dilution

Developer dilution (SLM-AC) [Qty.:3.16qt(3.0 ℓ) ]

- ① The dilution ratio is 1:1.  
Add water 1.58qt(1.5 ℓ) to the developer (SLM-AC, silver master use only) 1.58qt (1.5 ℓ) and mix thoroughly. Then, fill the developer container.
- ② Fill the developer replenisher tank (0.53qt(0.5 ℓ)), using the same ratio (1:1) as above.

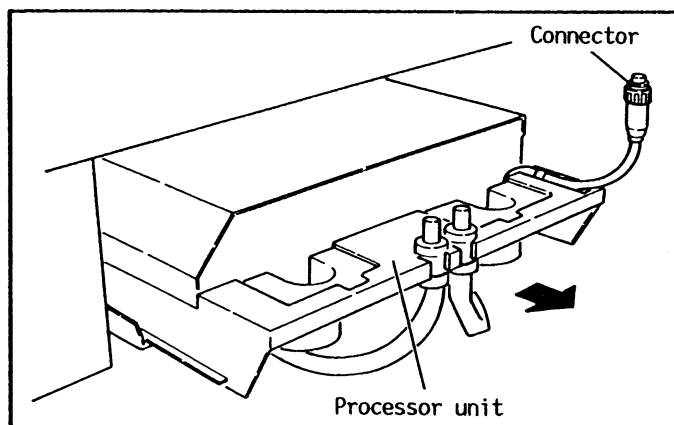
Stabilizer dilution (SLM-ST) [Qty.:2.85qt(2.7 ℓ) ]

- ① The dilution ratio is 1:3.  
Add water 2.14qt(2 ℓ) to the stabilizer (SLM-ST, silver master use only) 0.71qt(0.7 ℓ) and mix thoroughly. Then, fill the stabilizer container.
- ② Fill the stabilizer replenisher tank 0.53qt(0.5 ℓ), using the same ratio (1:3) as above.

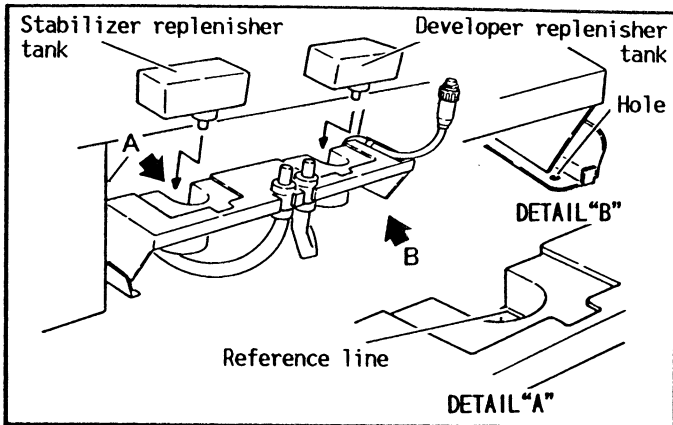
[NOTE]

- ① When preparing the solutions, use the measuring cup provided with the machine.
- ② If the water temperature is too low, heat it to 86~95°F(30~35°C).

### 8-2 Solution filling



- ① Open the front cover.
- ② Unscrew the threaded connector and disconnect.
- ③ Partially, draw out the processor unit.



- ④ Fill each container with its respective solution: developer 3.16qt(3.0 ℓ), stabilizer 2.85qt(2.7 ℓ).

[NOTE]

Fill the containers up to the reference line.

- ⑤ Slide the processor unit back into the machine, until the hole at the front of the rail can be seen.

[NOTE]

When moving the processor unit, handle it gently so that the solutions do not spill.

- ⑥ Set the replenisher tanks in their respective holders.  
⑦ Reconnect the connector.

### 8-3 Solution replenishment

The replenisher tanks must be filled with adequate amounts of their respective prepared solutions. If the replenisher tanks become empty, the levels in the processor unit will become too low and it will cause the solutions to deteriorate too quickly, as well as causing the quality to deteriorate.

### 8-4 Solution replacement

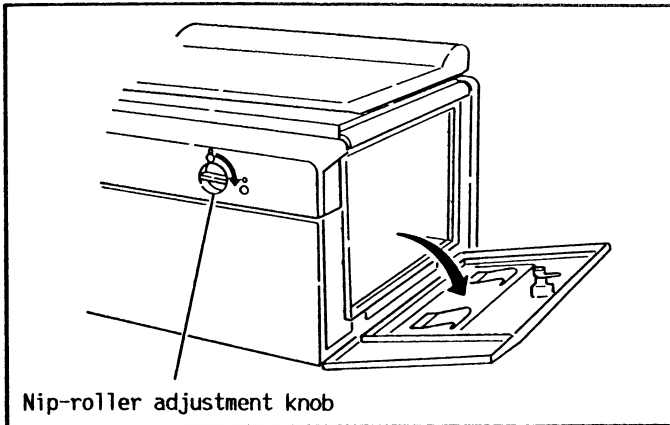
After 200 cycles or 2 weeks, replace all of the solutions. The processor unit is contained within the machine, therefore, please keep it clean. Refer to the maintenance procedures in this manual (P.17), for solution replacement.

### 8-5 Solution handling precautions

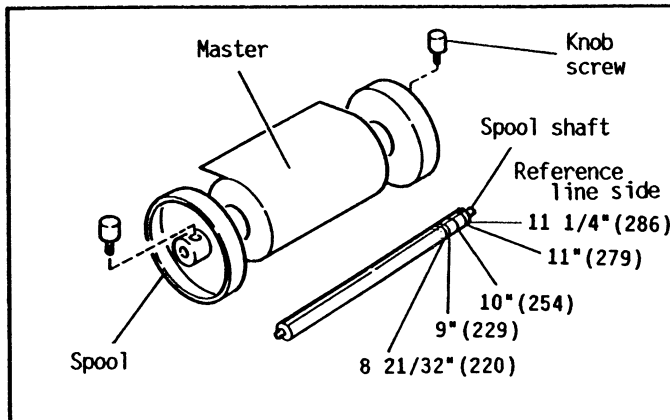
- ① Do NOT allow any solution to splash into your eyes or mouth. (If any solution should get into your eyes or mouth, see a doctor immediately.)
- ② If any solution gets on your clothes or skin, wash immediately with running water.
- ③ When handling the solutions, carefully follow the instructions.
- ④ Keep the solutions away from children.

# 9. Master Installation

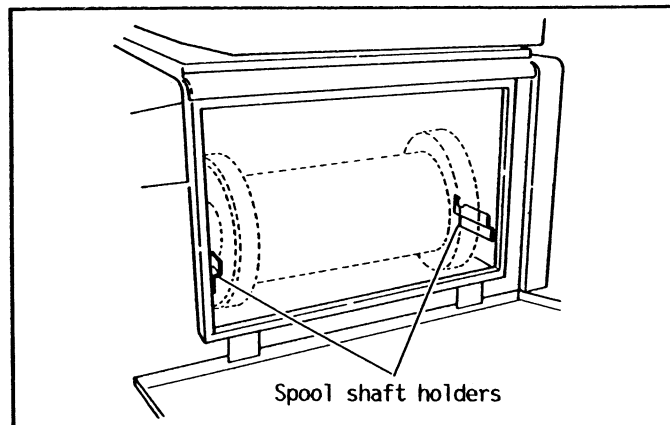
## 9-1 Silver master SLM-RII type installation



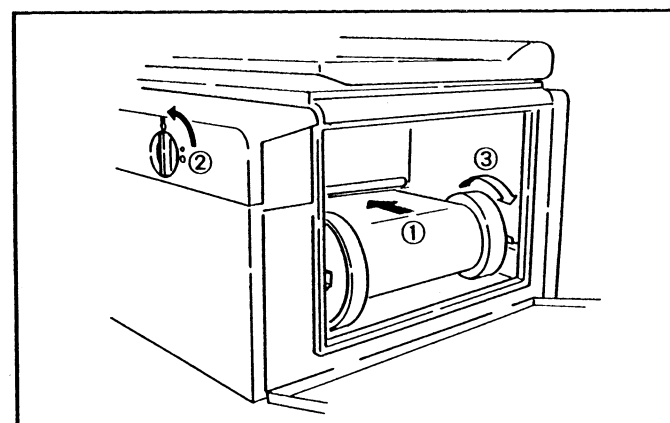
- ① Turn the nip-roller adjustment knob pointer to (○) to disengage the nip-roller.
- ② Turn the knob on the master compartment cover and open.



- ③ Align the spool face to the reference line on the spool shaft that corresponds to the master width used and secure using the knob screw.
- ④ Insert the spool shaft into the master core. Be sure that the master is wound clockwise when viewed from the right side.
- ⑤ Install the left side spool onto the shaft and secure using the knob screw.



- ⑥ Place the master onto the spool shaft holders. Do NOT reverse the left/right alignment of the spool.
- ⑦ Completely remove the adhesive tape holding the front end of the master and any remaining adhesive.



- ⑧ Feed the front end of the master between the master feed guide and the free roller. Feed the master until it stops 2 3/8" ~ 3 5/32" (60 ~ 80 mm).
- ⑨ Turn the nip-roller adjustment knob pointer to (○) to engage the nip-roller.
- ⑩ Turn the spool back a small amount and check that there is no slack or uneven tension.
- ⑪ Close the master compartment cover.



## 9-2 Silver master SLM-F type installation

- ① SLM-F has spool ends or black paper mounted on both sides; do NOT remove these during installation.

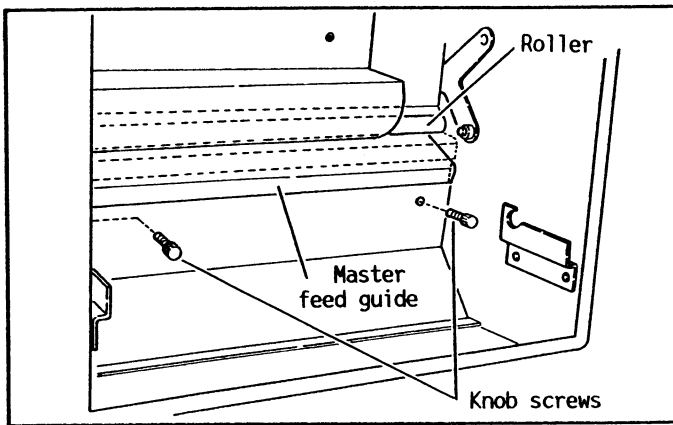
[CAUTION]

If the spool ends or black paper are removed, the film will be fogged by light. Therefore, do NOT remove the spool ends or black paper.

- ② For installation of SLM-F, follow the SLM-RII type installation procedure.

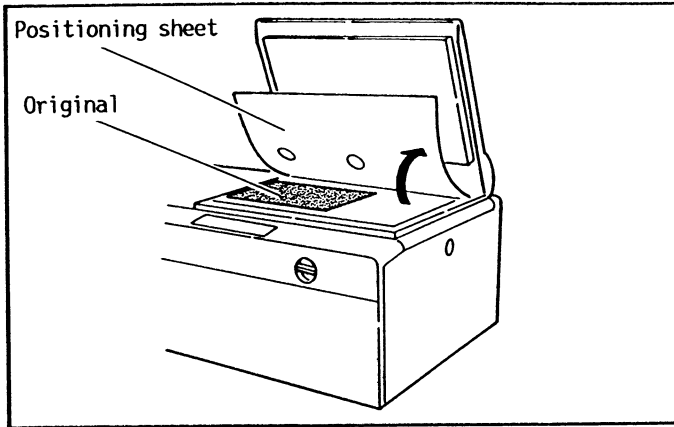
## 9-3 Master-end

If the master roll runs out, while the master is being fed, the MASTER END lamp on the control panel will light (yellow).

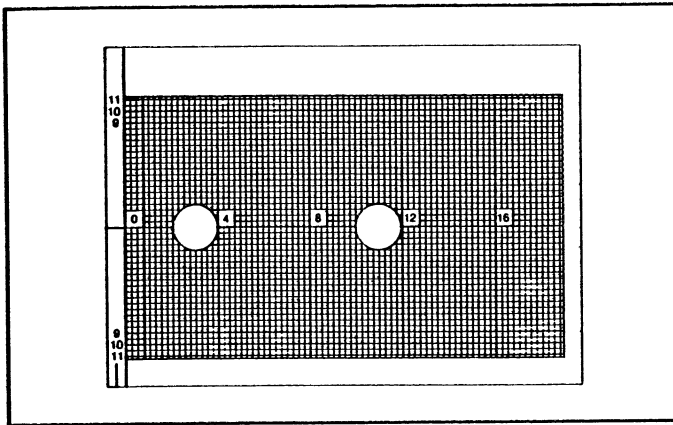


- ① Open the master compartment cover and remove the spool unit.
- ② Unscrew the knob screws (2) and lower the master feed guide.
- ③ Check if there is any master remaining between the master feed guide and the free roller. If so, remove the film.
- ④ Return the master feed guide to its original position and install the new master roll.

# 10. Original Placement



- ① Gently, open the copy board.
- ② Place the original face down on the copy glass, place the positioning sheet on top of the original, and align.
- ③ Gently, close the copy board.



### [NOTE]

- ① The positioning sheet has a "0"-reference line that is the front edge of the master. The machine is of slit-exposure type and produces double-exposed edges of about 5/32" (4 mm) in length that are unusable.
- ② The positioning sheet is a grid of 1/4" squares, to ease placement of the original.

### [CAUTION]

Because the copy board moves left and right, do NOT place objects on top of the machine. Also, do NOT touch the copy board while it is moving.

# 11. Exposure

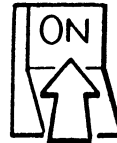
## 11-1 Exposure procedure

1) Solution check

Check that the processing unit and replenisher tanks are filled with solution. Also, check that the heater connector is connected to the machine.

2) Power switch ON

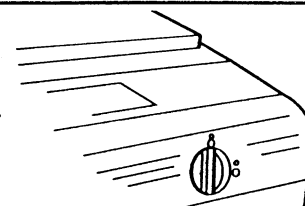
Turn ON the power switch to warm-up the machine and solutions, before starting operation.  
(15 min. before, in summer and 30 min. before, in winter)



3) MASTER END lamp and nip-roller check

Check that the MASTER END lamp is OFF and that the nip-roller is engaged (8).

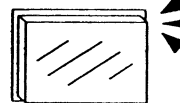
MASTER END



4) Start button lamp check

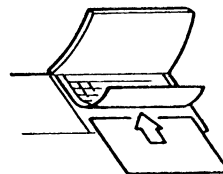
Check that the Start button lamp (green) is ON.

START



5) Original placement

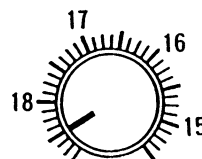
Place the original face down on the copy glass and align to the desired position using the positioning sheet.



6) Master feed length adjustment

Adjust the master feed length using the MASTER LENGTH dial.  
(Range: 14 19/32" ~ 18 15/16")

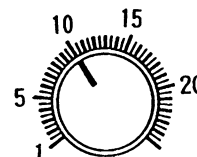
MASTER LENGTH INCH



7) Light intensity

Set the light intensity in relation to the original density and type, using the EXPOSURE dial.  
(Range: 1~23)

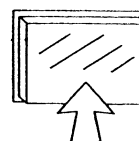
EXPOSURE



8) Start button ON

When the Start button is pressed, the exposure will start.

START



## 11-2 How to adjust to the normal light intensity

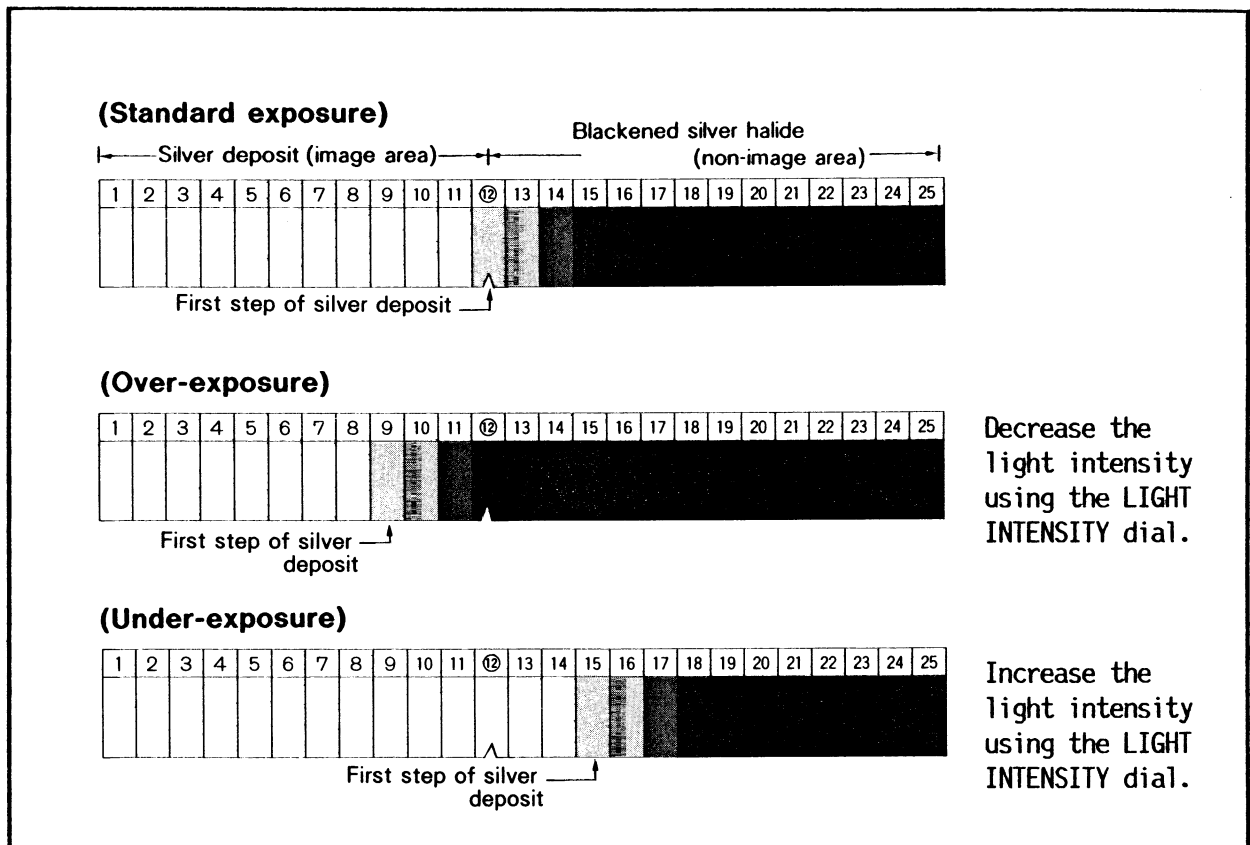
The silver master is coated with silver chloride and there may be differences in amount depending on the film lot. When film from a different lot is used, check its sensitivity before use.

If the light intensity is low, the image size will be incorrect (too big) or dirt on the print will result. Also, if the light intensity is too high, the image size will be incorrect (too small) and the image will lose definition.

To make the most of the Silver Master RII or Silver Master F, select the best light intensity possible.

Refer to the separate Silver Master Technical Guide, also.

- ① An exposure sample and a test chart are supplied with the CP-50SII. Make an exposure using the test chart and compare it to the sample exposure. Follow the procedure in 11-1 (P.14).
- ② Determine the gray-scale of the exposed test chart. Then adjust the light intensity accordingly.  
Best adjustment: Position 12 is the location where the first shade of gray appears.



[NOTE] The condition of the exposure sample may change after a long period of storage. Therefore, keep it in a dark place such as a drawer.

### 11-3 How to correct the light intensity

- ① The best light intensity varies, depending on the original being used.
- ② The best light intensity for the original differs depending on the type of printing (printing machine, paper, ink, etc.) to be done. The data shown below is for basic reference. Therefore, please determine the best light intensity for your application by using your own data as well.

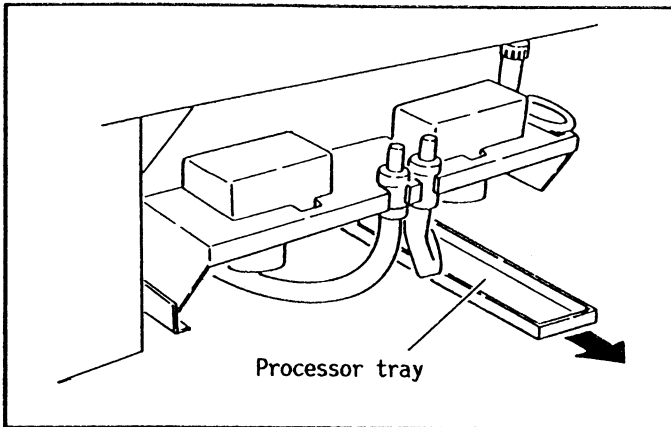
[REFERENCE] The best light intensity for various types of originals;  
by increasing and decreasing the light intensity

Original		Best light intensity
Original condition	Original type	
The original's lettering and/or images are light or incomplete	Handwriting using pencil	0~-20% Decrease the light intensity until the unprinted area becomes white.
	Photocopied original	
The original's lettering and/or images are heavy and the base is dark	Phototype, electrical phototype	-10~+20%
	Typewriting	0~+30% (Increase the light intensity)
	Screened original	+20~+30% (Increase the light intensity)

# 12. General Maintenance

## 12-1 Processor tray check

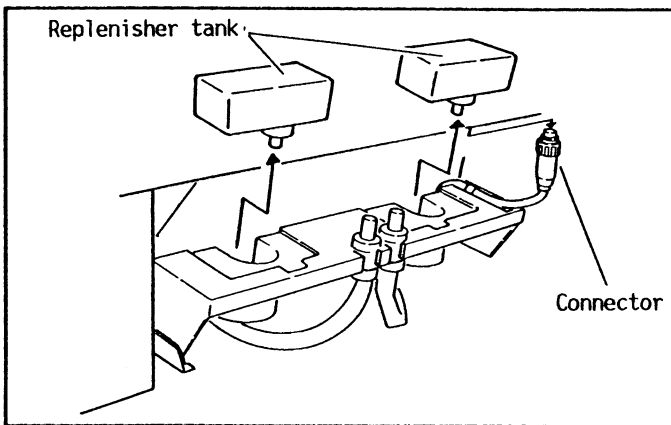
Check for solution in the processor tray at least once each week.



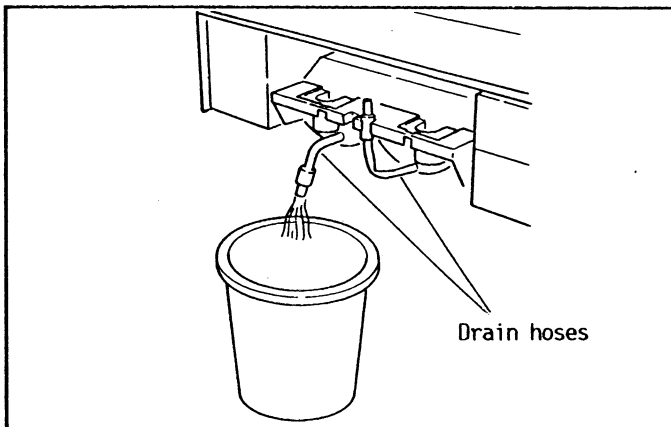
- ① Turn OFF the power switch.
- ② Remove the front cover of the machine.
- ③ Check for solution in the processor tray. If any, remove the tray and empty it.

## 12-2 Processor unit cleaning

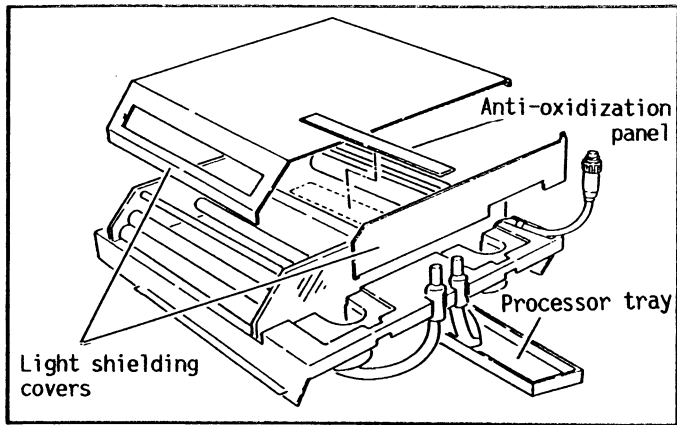
While processing, silver from the master, paper fibers and/or solutions from the processor unit adhere to the roller surfaces causing solution deterioration/contamination. Therefore, clean the unit periodically.



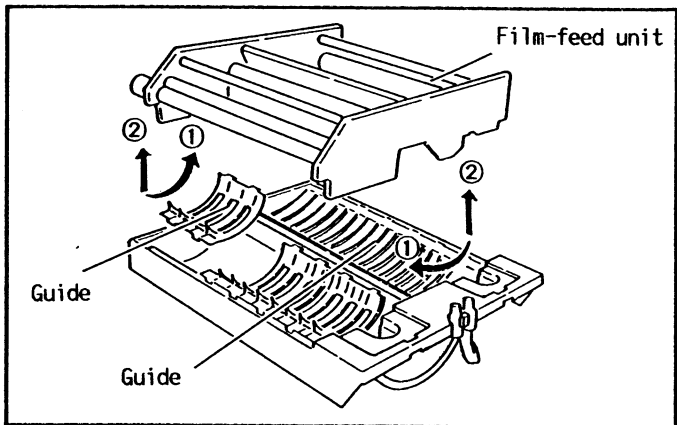
- ① Turn OFF the power switch.
- ② Remove the front cover of the machine.
- ③ Remove the replenisher tanks.
- ④ Unscrew and disconnect the connector.



- ⑤ Drain as much of the solutions as possible into a waste container, using the drain hoses.
- ⑥ Draw out the processor unit and drain the rest of the solutions.



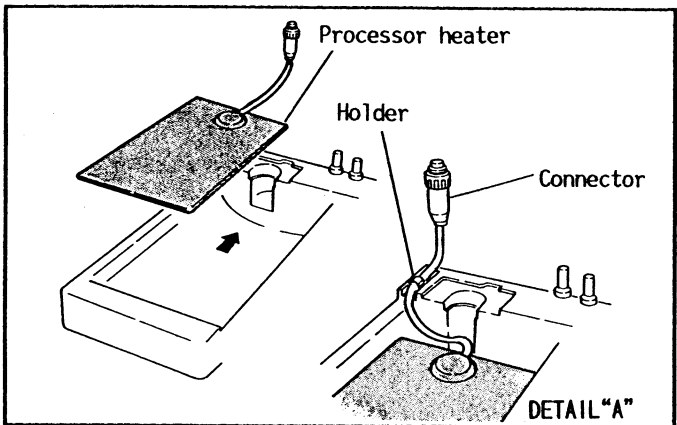
- ⑦ Draw out the processor tray.
- ⑧ Remove the processor unit from the machine and place it on the work area.
- ⑨ Remove the front and upper light shielding covers.
- ⑩ Remove the anti-oxidization panel.



- ⑪ Remove the film-feed unit.
- ⑫ Remove the guides from the developer and stabilizer containers.

[CAUTION]

- The catches on the guides are easily broken, therefore, be very careful while handling.
- When removing the guides; while sliding each guide towards the inside (in the direction of arrow ①), raise the outside catches upwards (in the direction of arrow ②).



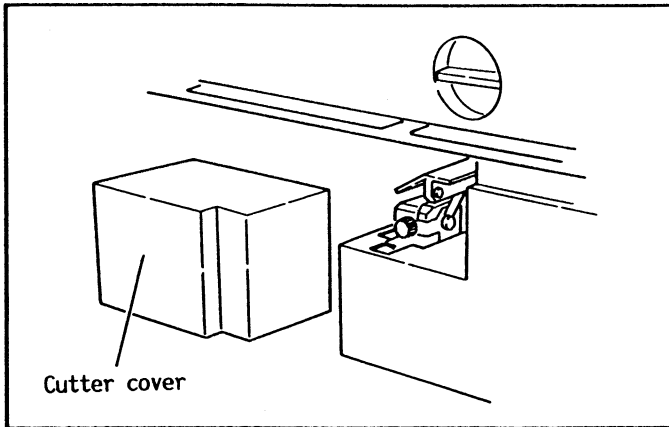
- ⑬ Remove the connector from the connector holder.
- ⑭ Remove the processor heater.
- ⑮ Wash the film-feed unit, the containers, the heater, and the processor tray with running water. Carefully clean-off any contaminants that remain on the above, using a damp cloth or sponge.

[CAUTION]

- ① Do NOT use any chemical cleaners or powder cleaners.
- ② Do NOT allow the inside of the connector to get wet, while cleaning the heater.

## 12-3 Cutter blade replacement

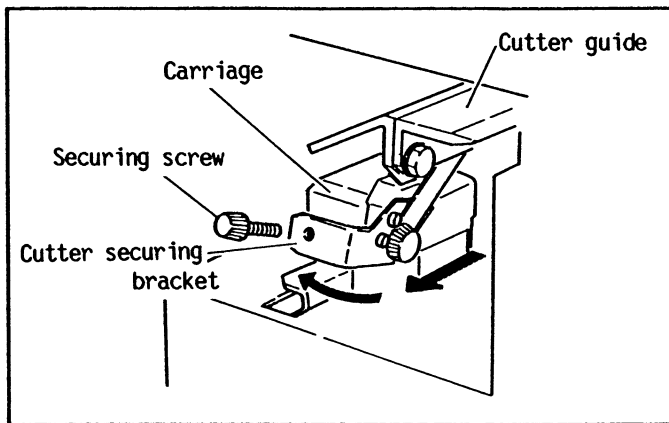
Usually, the cutter blade requires replacement after 400 cycles (2 rolls X 246ft(75 m) length each) or 30 days use.



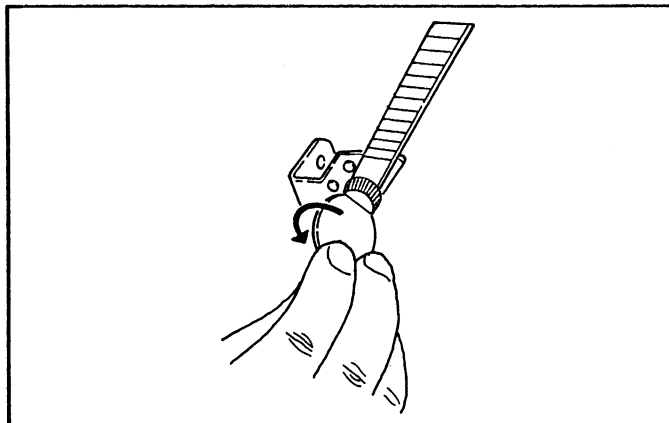
- ① Turn OFF the power switch.
- ② Open the front cover of the machine and remove the cutter cover.

[CAUTION]

Be very careful NOT to cut your hand, when handling the sharp cutter blade.



- ③ Unscrew the securing screw from the cutter securing bracket.
- ④ Remove the cutter securing bracket.



- ⑤ Replace the cutter blade.
- ⑥ Insert the new cutter blade into the cutter guide and attach the cutter securing bracket to the carriage.

[NOTE]

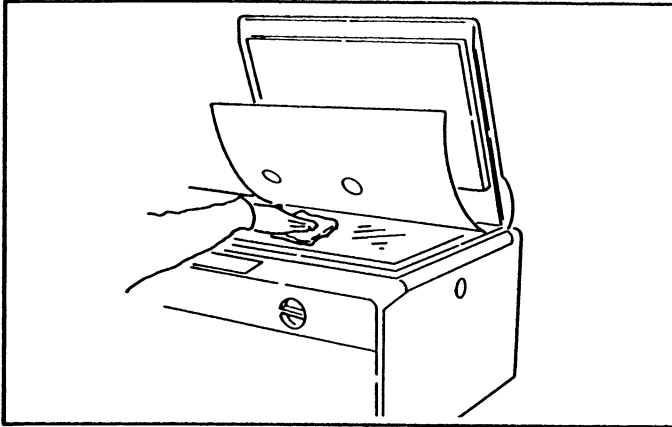
Use a commonly available cutter tool blade (blade length: 3 11/32" (85 mm))

- ⑦ Re-install the cutter cover and front cover.



## 12-4 Copy glass cleaning

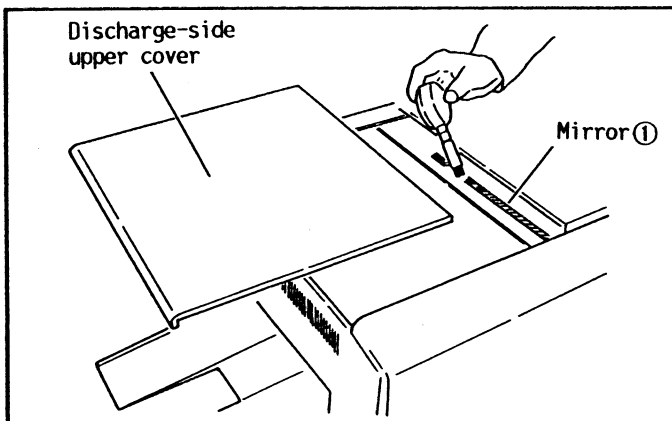
The copy glass easily becomes dirty or covered with fingerprints. Therefore, check it everyday. If the glass is dirty, thoroughly clean it with a soft, clean cloth and glass cleaner, until no glass cleaner remains on the glass.



- ① Open the copy board and clean the surface of the glass.

## 12-5 Mirror maintenance

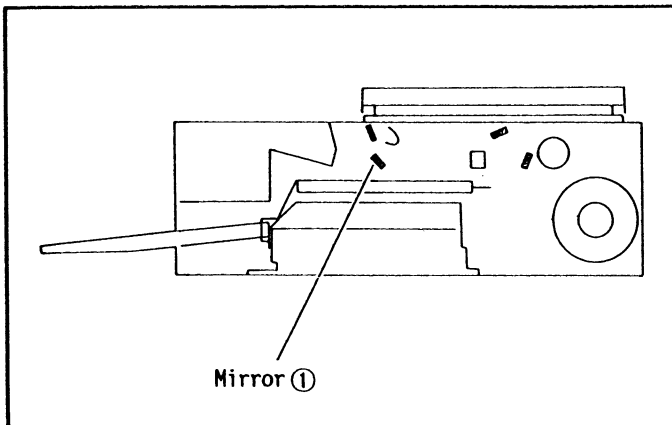
The lens and mirrors are located inside the machine. These do not often become dirty. However, the optical system function quality may deteriorate after a long period, due to dust in the air. Therefore, it is recommended that the lens and mirrors be cleaned every month, using the airbrush provided with the machine.



- ① Turn OFF the power switch.
- ② Remove the discharge-side upper cover.
- ③ Clean mirror ① using the airbrush.

### [NOTE]

If the mirror is very, use lens paper (available at a photo supply store) with a very small amount of ethyl alcohol (commonly available) applied and carefully clean the mirror.



## 12-6 Part ordering

The machine consists of many components; those that can be easily replaced by the customer and those that require a service technician.

Please note the following, when ordering.

- ① Parts only or parts and service.
- ② Information noted on the machine's nameplate.

i) Model name: CP-50SII

ii) Serial number:

- ③ Part name, part number, quantity, delivery date

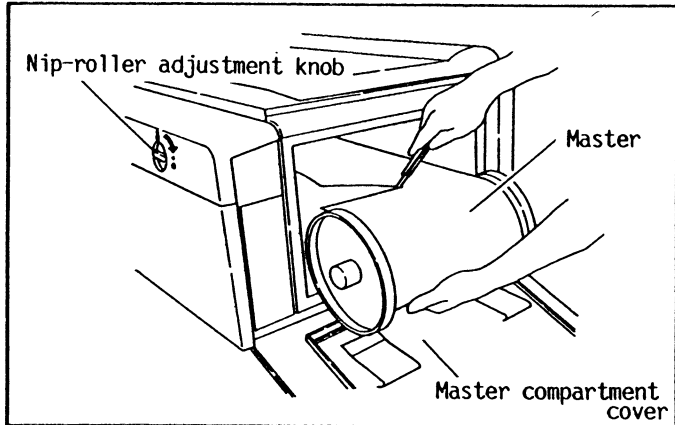
[NOTE] • The machine's specifications may be changed, without notice, during production.

Therefore, there may be discrepancies between this manual and the machine.

• We cannot be responsible for any modifications or use of another company's parts by the customer.

## 13. If The Power Is Accidentally Turned OFF

If the power is accidentally turned OFF during exposure (turning OFF the power switch, opening the front cover or the discharge-side upper cover), the master will be discharged without being cut when the power is turned ON again. Follow the procedure below to remove the un-cut master.



- ① Turn OFF the power switch.
- ② Open the master compartment cover and then cut the master using a cutter.

[CAUTION]

Do NOT place the master roll onto the master compartment cover.

- ③ Turn the nip-roller adjustment knob pointer to (○).
- ④ Turn ON the power switch, to discharge the cut master.
  - \* If the master is not discharged after the power switch is turned ON, turn OFF the power switch and then remove the master roll from the master compartment.
- ⑤ Re install the master roll to the master compartment. (Refer to P.11 for master installation.)

# 14. Troubleshooting

If the machine does not operate normally, follow the troubleshooting chart below. If after completing the correction the machine still does not operate normally, please contact the service personnel.

**[NOTE]**

- ① Wait 5 seconds before re-turning on the power switches.
- ② Before removing any covers for troubleshooting, turn OFF the machine power switch and main power switch.

	Troubles	Cause
1	Power does not turn on.	<ul style="list-style-type: none"> <li>① Is the main power switch turned on?</li> <li>② Are the front cover and discharge side upper cover installed correctly?</li> </ul>
2	Processor does not operate.	<ul style="list-style-type: none"> <li>① Is the machine power switch turned on?</li> <li>② Is the processor tank set correctly?</li> <li>③ Are the front cover and discharge side upper cover installed correctly?</li> </ul>
3	Solution temperature of the processor is not warm enough.	<ul style="list-style-type: none"> <li>① Is the machine power switch turned on?</li> <li>② Is the processor connector properly connected?</li> <li>③ Are the front cover and discharge side upper cover installed correctly?</li> <li>④ Has the proper duration of time elapsed after turning on the power switch?</li> <li>⑤ Is there any damage on the surface of the processor heater?</li> </ul>
4	Start button does not light.	<ul style="list-style-type: none"> <li>① Is the machine power switch turned on?</li> <li>② Is the master end light out?</li> <li>③ Is the copy board at the start point?</li> <li>④ Are the front cover and discharge side upper cover installed correctly?</li> </ul>
5	Master film is not cut.	<ul style="list-style-type: none"> <li>① Is the cutter blade properly installed?</li> </ul>
6	Master film is not fed properly.	<ul style="list-style-type: none"> <li>① Is the master roll set correctly?</li> <li>② Is the nip roller knob set to engaged position (8)?</li> </ul>

	Troubles	Cause
7	Light source does not activate.	① Is the exposure dial not set within proper limits?
8	The printing plate is not produced clearly.	① Is the light intensity set correctly? ② Is the solution temperature correct? ③ Are there any impurities in the processor?
9	The printing plate is not entirely exposed.	① Are there any impurities on the copy glass and/or mirrors? ② Are all covers installed correctly?
10	The printing plate is scratched.	① Are there any impurities in the processor?

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