

MODEL: ED500

No. : GEN-080

Date : 24.04.98

SUBJECT : TECHNICAL INFORMATION ON ED500**1. OUTLINE**

This is to inform Technical Information of new product, ED500.

This ED500 is the equipment with endorsement function of checks and others and this equipment can be installed to DR-3020. Also, this ED500 is available for CD-4046 which will be on sale.

2. INDEX

- Product number-----P1
- Product structure-----P1
- Features-----P2
- Specifications-----P3 to 4
- Names of parts-----P5
- Installation / preparation-----P6 to 7
- Operation / Function-----P8 to 12
- Disassemble / Assemble-----P13 to 16
- Adjustment of Stamping Assembly-- P17
- Maintenance / Servicing-----P18
- Circuit Diagram-----P19 to 20
- Parts Catalog-----P21 to 33

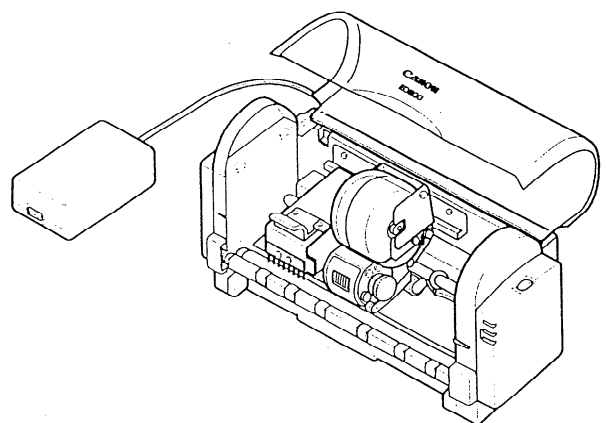
3. PRODUCT NUMBER

- M18-0541-000 (100V, 50/60Hz)
- M18-0543-000 (120V, 60Hz)
- M18-0544-000 (230V, 50/60Hz)

4. PRODUCT STRUCTURE

- 1) Main body and Power supply unit
- 2) Power Supply Cord
- 3) Receptacle adapter (only for 100V)
- 4) Ground cable (only for 100V)
- 5) Diedrum B110
- 6) Screw(for diedrum)
- 7) Delivery Tray E
- 8) User's Instructions
- 9) Guarantee Certificate (only for 100V)

*External Figure of ED500



5. FEATURES

1) Easy installation

Installation can be completed only by placing the ED500 Main body onto the Delivery Assembly of DR-3020 and CD-4046 (hereinafter, called as "Scanner"). No connections by cables with Scanner and ED500 has its specified power supply.

2) Pre ink replenishment (Pre-paint) function

Though our previous endorsers may not be able to stamp the first document, since ink can not be put on the stamp at the initial operation, ED500 has the function of pre ink replenishment. (hereinafter, called as "Pre-paint") It needs manual operation.

3) Movable stamping position

Change the horizontal direction of stamping position by moving the Stamping Assembly horizontally. Change the vertical direction by the stamping position adjusting dial of Operation Panel.

4) Lower noise

Since operation noise of ED500 is lower than previous endorsers, it is suitable for using in the office.

Product life : 1 million document scanning or 5 years, whichever comes first.

Note : This ED500 can work with DR-3020 and CD-4046, but not with DR-3020N, because DR- 3020N is basically used for non carbon pressure sensitive paper.

6. SPECIFICATIONS

1) Type

Installed onto Scanner

2) Endorsing method

Stamping type

3) Available document size

- Width : 130 to 257 mm
- Length : 70 to 297 mm
- Thickness : 0.08 to 0.2 mm

4) Stamping position

•Horizontal direction : Move Stamping Assembly manually to the right and left. The adjustable range is 31mm max. left and 92mm max. right from the center of the document feeding path. Adjust it not as to be dislocated from the document.

•Vertical direction : Rotate the Stamping position adjusting dial. The adjustable range are two mode as follows. To switch modes is subjected to the service technician.

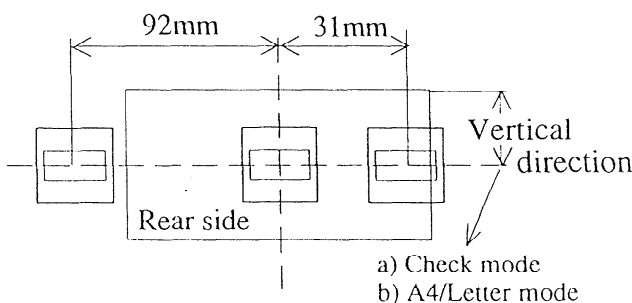
a) Check mode (Default)

The center of the date is 24 to 69 mm from the front edge of the document.

b) A4 / Letter mode

The center of the date is 26 to 271 mm from the front edge of the document. These are reference value which maybe different depending on any conditions. Printing assurance range is 28 to 65 mm in Check mode, and 31 to 266 mm in A4/ Letter mode.

Adjust it as to have 5mm or more distance between the end of stamping and the front or rear edge of document.



5) Area of the Stamping plate (Outside max.)
30(W) x 40(L) mm

6) Feeding speed

ED500 can exchange its speed by 3 steps automatically, depending on the document delivery speed from Scanner.

- a) High speed : 241.9 mm/sec.
- b) Medium speed : 181.4 mm/sec.
- c) Low speed : 121.0 mm/sec.

7) Operation noise

Acoustic pressure level : Less than 70dB

8) Functions

- Pre-paint : Yes
- Jams detection : Yes
- Stamping counter : No
- Correspond function sheet : No
- External Interface : No

9) Dimension

- Main Body :
340(W) x 154(D) x 184(H) mm
- Power Supply Unit :
85(W) x 146(D) x 68(H) mm

10) Weight

- Main Body : 3.0 kg
- Power Supply Unit : 1.3 kg

11) Consumption power or input current max.

- 100V machine : 30W
- 120V machine : 0.3A
- 230V machine : 0.2A

12) Certified Standard

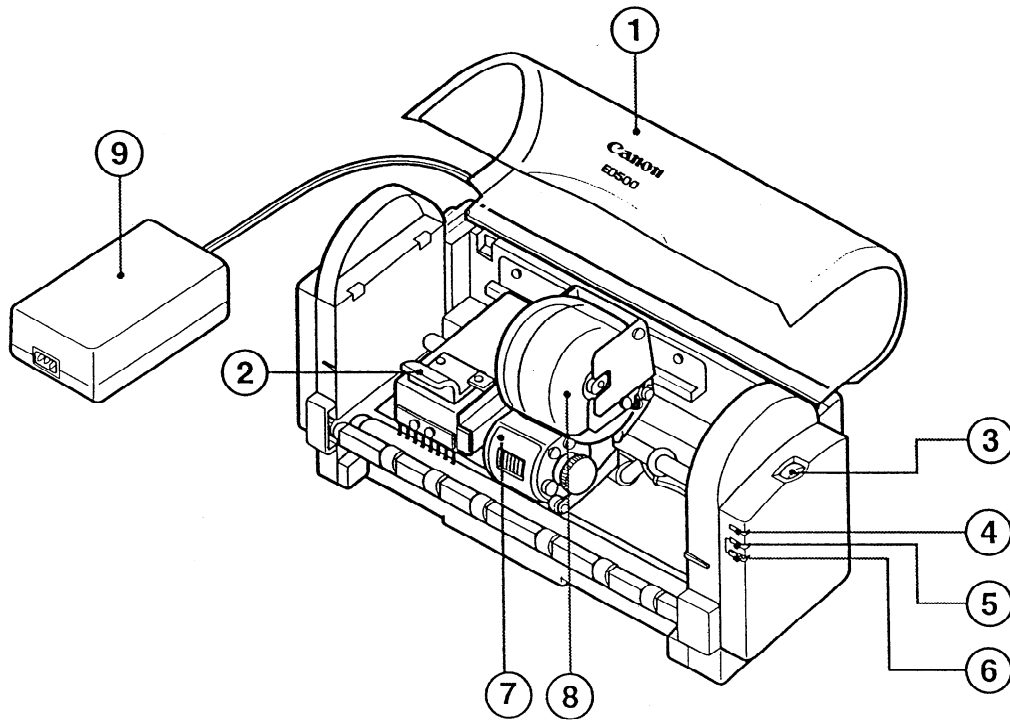
Country/Area	Safety Std	EMC Std.
Japan		VCCI ClassA
USA	UL1950	FCC ClassA
Canada	CSA950	IC ClassA
Europe	IEC950	CISPR ClassB
CE Marking		
North Europe	*Note	
Australia	*Note	C-tick Marking

*Note : Now on application

13) Consumables

- Ink Roller : Estimation of exchange is
0.3 million feeding
- a) Ink Roller 32(Red) : MG1-1432
- b) Ink Roller 33(Black) : MG1-1433
- c) Ink Roller 34(Blue) : MG1-1434
- d) Ink Roller 35(Purple) : MG1-1435

Specifications are subject to change
due to improvement of product, etc.

7. NAMES OF PARTS

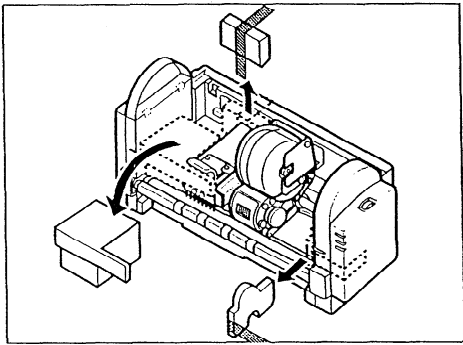
- ① Upper cover
- ② Release lever
- ③ Stamping position adjustment dial
- ④ Power supply lamp
- ⑤ Stamping lamp
- ⑥ Stamping switch
- ⑦ Die drum
- ⑧ Ink roller (sold separately)
- ⑨ Power supply unit

8. INSTALLATION / PREPARATION

ED500 can be installed by users. Refer to User's Instructions. Basic procedure and special notes are described here.

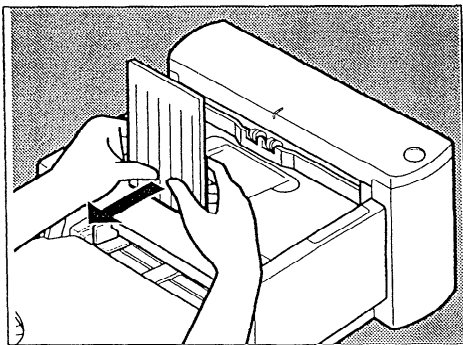
1) Unpacking

- a) Unpack and take out the main body, power supply unit and other enclosed parts. The main body and power supply unit are connected with the cable.
- b) Peel whole filament tapes for fixing several positions of the main body.
- c) Open the upper cover and remove all of 3 cushions for protecting stamping assembly.

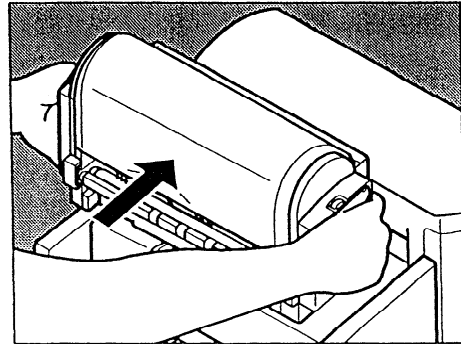


2) Place to Scanner

- a) Let the delivery guide tray of Scanner stand up vertically and remove it so as push the center of lower side from the rear side to the front.



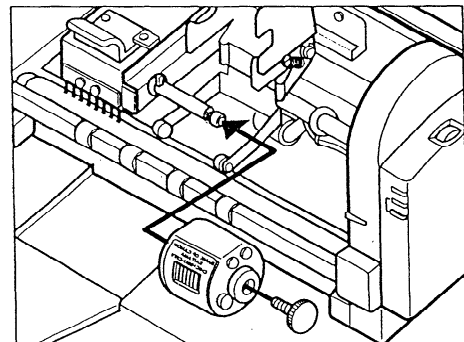
- b) Hold the right and left of the main body and lift the rear side up a little by hands, and set ED500 so that 2 hooks on rear side can be set securely to the delivery slot of Scanner.



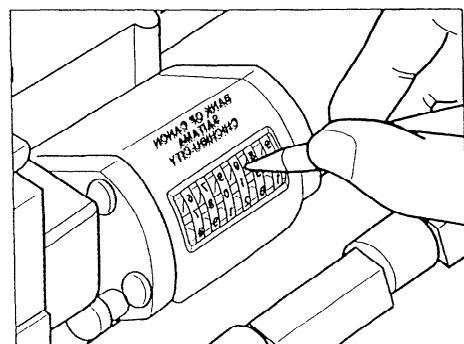
- c) Attach the enclosed delivery guide tray E.

3) Attach Diedrum

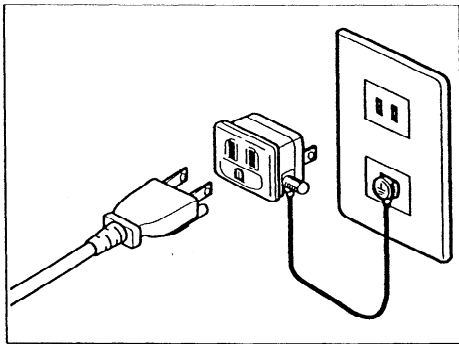
- a) Apply the proper stamping plate for the user to enclosed diedrum.
- b) Lift the Stamping assembly and insert diedrum to the diedrum shaft until the spring at the edge enters into the slot of diedrum shaft. Then, attach the enclosed screw.



- c) Set the date which user requests. Be careful that the stamping plate shall not be damaged.



- d) Attach Ink roller which is sold separately.
- 4) Connect Power supply cord
- a) Connect power supply cord to power supply assembly of the main body.
- b) If that is 100V machine and its power receptacle has 2 holes, use receptacle adapter and connect ground wire. If its power receptacle has 3 holes with ground, the adapter is unnecessary.



- c) Turn on the power supply of Scanner.
- 5) Stamping test
- Before stamping on the actual document, confirm stamping quality and position by using other paper. For operation method, refer to other item.

9. OPERATION / FUNCTION

1) Basic operation

Basic operation is as follows.

For installation procedure and preparation, refer to another item. And, for details, refer to User's Instructions.

- a) Put on the power of the Scanner, a power lamp of ED500 will be lighten green.
- b) Push the stamping switch to turn on stamping. The stamping lamp will be lighten yellow-green.
 - *For description of the condition of stamping lamp, refer to Note 1.
- c) Remove ink roller and set the date of diedrum.
- d) Adjust stamping position.
 - *For details of adjusting method, refer to Note 2.
- e) When it is the first using or it is not used for a long time, perform pre-paint.
 - *For pre-paint, refer to Note 3.
- f) Set documents.
- g) Start feeding of the document.
 - *For feeding and printing method, refer to User's Instructions of the Scanner or software.

Note 1 : Description of stamping lamp

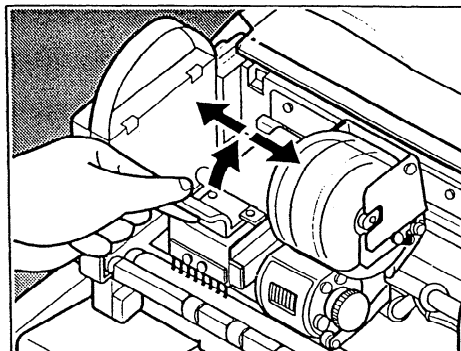
- Yellow-green ---Stamping ON
- Orange -----Stamping OFF
- Red-----Document jam
- Yellow-green (flashing)--- Disposition of stamping
- Red (flashing)---Defected Diedrum or DC Power Supply
- Not lighten---Power Supply of Scanner is OFF or the machine can not be supplied from Power Supply

Note 2 : Adjusting of stamping position

a) Horizontal direction

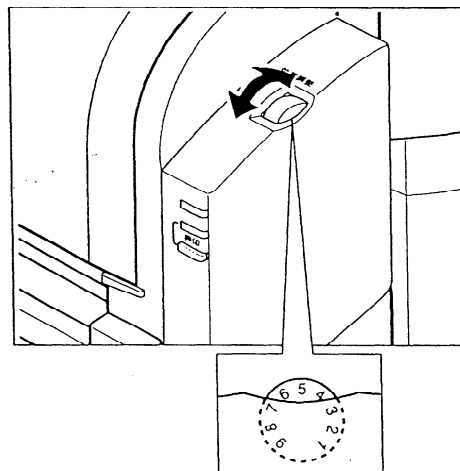
Lift the release lever and move the stamping assembly to the right and the left.

Adjust it not as to be dislocated from the document.



b) Vertical direction

- With referring to the following estimation, adjust the required position with rotating the stamping position adjustment dial.



- The following table indicates scales of the dial and the estimated distance from the front edge of document to the center of date.

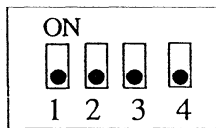
Unit : mm

Scales of the dial	1	3	5	7	9
Check mode	24	33	48	62	69
A4/Letter mode	26	69	147	225	271

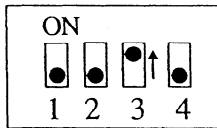
These are reference value which maybe different depending on any conditions. Adjust it as to have 5mm or more distance between the end of stamping and the front or rear edge of document.

• Selection of Check or A4/Letter mode can be made with the Dip switch (SW2) on preprint CPU PCB. For A4/Letter mode, move No.3 to ON (upper) side. Be careful that the change of setting should be done after pulling out the power supply cord. Setting is recognized at the turning on the power of ED500.

Setting of SW2



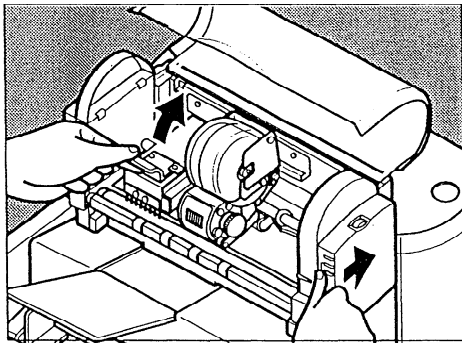
Check mode
(Default)



A4/Letter mode

Note 3 : Procedure of Pre-paint

- a) While keeping lifting the release lever, turn-on stamping switch. Until finishing pre-paint, keep lifting the release lever.



- b) Diedrum is rotated a half and it is replenished with ink.
- c) Release the release lever.

2) Special operations

The followings are descriptions of counter-measures if the stamping lamp indicates any error, and the special mode.

*If the endorser lamp is lighten red;

Document jam is occurred. Take jammed document away carefully so that document may not be broken.

- a) Lift the rear side of main body up a little, release the hook from Scanner and move main body to the front.
- b) Take jammed document away from delivery assembly and/or pick-up assembly of ED500.
- c) If a document is jammed in Scanner, open the feeder assembly of Scanner and take it away. For operation method, refer to User's Instructions of Scanner.
- d) Set ED500 to Scanner.
- e) ED500 is reset automatically. Even if diedrum moves to the home position, it shall not be defected.

*If the stamping lamp is flashing yellow-green;

Vertical stamping position is over the rear edge of document and the stamping position shall be re-adjusted.

- a) After finishing feeding of document and stopping the Feeding Motor, push the stamping switch.
- b) The stamping lamp returns to be lighten yellow-green again.
- c) Rotate the stamping position adjustment dial depending on the document length and adjust it on the correct position.

*If the stamping lamp is flashing red;

Home position of diedrum or DC output from power supply unit maybe defected.

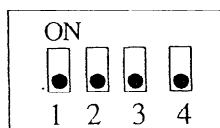
- a) Pull out power supply cord and insert it again. Even if it is not reset, the following countermeasure shall be done.
- b) If the lamp is flashing red, after document was jammed and motion of diedrum was defected, check electrical and mechanical connections from stamping motor to home position sensor. If any defects are found, repair it and insert power cord again.
- c) If no defects are found out about die drum, measure pressure of AC power supply. If it is not defected, measure DC output voltage of power supply unit. The specified DC voltage is +24V. If DC voltage is abnormal, replace power supply unit.
- d) If such defects as above are not found, preprint CPU PCB shall be replaced.

*Set Dip switch

With changing the setting of Dip switch (SW2) on preprint CPU PCB, special operation modes can be available. However, "No.4" shall be always OFF, since its mode is not set.

Except for the switching for stamping range mode, any other modes may not be used in the field. While power supply cord should be pulled out, change the setting. Setting is recognized at the turning on the power of ED500.

- a) Setting mode at shipment from the factory (Default) is all switches are on OFF (lower side).



b) Endurance mode

If "No.1" switch is ON, endurance mode is set. It shall always be OFF in the field.

c) Disregard Scanner mode

If "No.2" switch is ON, disregard Scanner mode is set. It shall always be OFF in the field.

d) Switching for stamping range mode

When "No.3" switch is ON, the stamping range mode for vertical direction is available for A4/Letter mode. For range of stamping position, refer to another description.

*Temporary changing of stamping range mode

If changing stamping range mode during power-on, perform the following operation. This temporary method is not for User.

The setting mode will be invalid when pulling out power supply cord, and when connecting the cord again, the mode will become the setting mode of No.3 of Dip switch (SW2).

a) Check mode

While keeping lifting release lever and continuing to push the stamping switch, rotate the stamping position adjustment dial from "9" to "1".

b) A4/Letter mode

While keeping lifting release lever and continuing to push the stamping switch, rotate the stamping position adjustment dial from "1" to "9".

- c) When recognized the switching mode, diedrum rotates a little same as detect the home position.

3) Block diagram

The followings are the basic block diagram, the driving block diagram and the electric circuit block diagram of ED500.

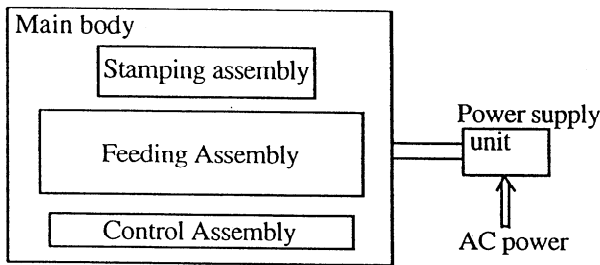
ED500 is constructed by main body and power supply unit. And the main body is constructed by Stamping assembly, Feeding assembly and Control assembly.

ED500 has two(2) driving motors, M1 is for feeding and M2 is for diedrum

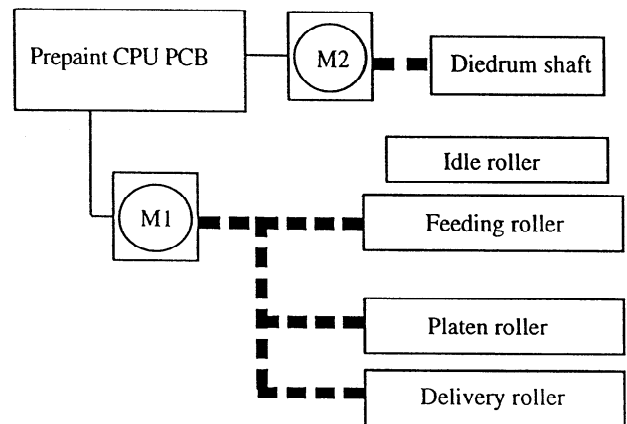
Program built-in CPU is mounted onto Prepaint CPU PCB. This CPU PCB is connected with driving motor, sensor and other electric parts.

Power is supplied through power supply PCB which is in power supply unit to the main body. AC power input is transferred to DC24V by power supply PCB. DC5V is converted from DC24V internal of the main body.

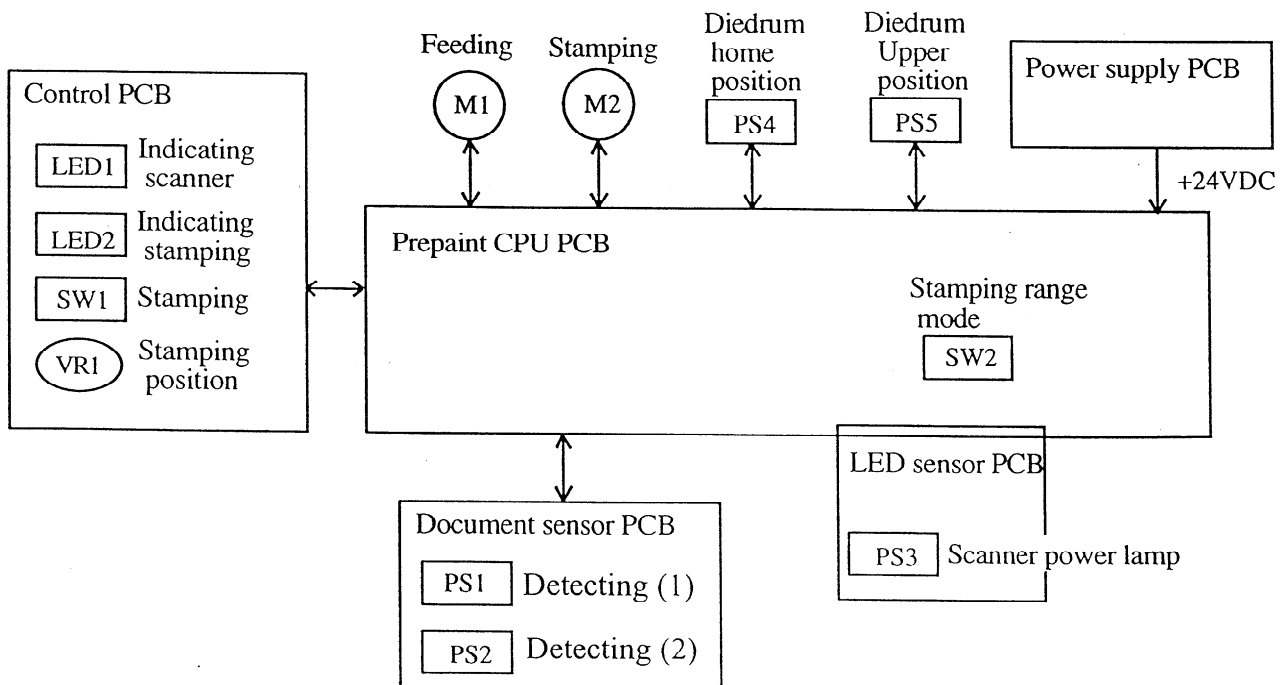
•Basic block diagram



•Driving block diagram



•Electric circuit block diagram



4) Control of stamping operation

Timing chart of electric signals when stamping on one document is shown as follows.

	Pick-up	Feed	Stamp	Deliver
Detecting sensor 1 (PS1)	[Active signal bar]			
	[Active signal bar]			
Detecting sensor 2 (PS2)	*1	[Active signal bar]		
	[Active signal bar]			
Feeding motor (M1)	*2	[Active signal bar]		*5
	[Active signal bar]			
Stamping motor (M2)	*3		[Active signal bar]	
	[Active signal bar]			
Home positioning sensor of Diedrum (PS4)	[Active signal bar]			*4
	[Active signal bar]			

- *1: Measure the time of document reaching from PS1 to PS2 and judge feeding speed of Scanner.
 - *2: Until judging feeding speed of Scanner, feeding motor is driving by the same speed as one measured before. After judging, the motor is driving by the measured speed.
 - *3: Waiting time until the stamping motor starts driving is decided by the setting of the stamping position adjustment dial.
 - *4: After the specified time has passed since Diedrum returns to the home position, stamping motor stops.
 - *5: After the specified time has passed since the document passed through PS1, feeding motor stops.
- Note1: Time value and scale of each signal are different from the actual ones.
 Note2: Signals of PS1 and PS2 are actually active low signals.

If the machine judges that stamping position in vertical direction may be over document, the stamping lamp will be flashing yellow-green. This judge is decided by comparing the signal of document detecting sensor and waiting time until the stamping motor starts driving. On this occasion, stamping is not operated.

If the machine judges document jam, the stamping lamp will be lightening red. There are 2 kinds of document jams; One is pick-up jam when sensor 2 (PS2) does not detect even if the specified time has passed since document detecting sensor 1 (PS1) detected the document, and another is sequestration jam when sensor 1 (PS1) continues to detect

more than the maximum length 297mm (setting value is 309mm) since the sensor detected the edge of document. On this occasion, Feeding motor is stopped.

If the machine judges the defected rotation of diedrum, the stamping lamp will be flashing red. This is the occasion when home positioning sensor (PS4) can not detect the cutting edge of encoder plate mounted on die drum shaft, even if driving pulse is supplied to stamping motor. On this occasion, each operation will be stopped.

If DC power voltage (+24V) supplied from power supply unit is abnormal, also the stamping lamp will be flashing red.

10. DISASSEMBLE / ASSEMBLE

Procedure of disassemble and carefulness at assemble are described as follows. Unless otherwise specified, assemble shall be done according to the reverse of disassemble.

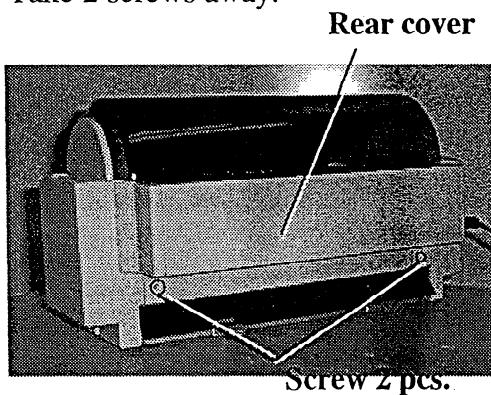
For disassembles of parts and units which are not specified in this item, refer to another item, Parts Catalog.

On disassemble and assemble, pull out the power supply plug. And, prior to disassemble and assemble, remove ink roller and diedrum.

Note : The machine shown in the following photo is the mass-production trial machine and it might be partially different from the actual mass production machine.

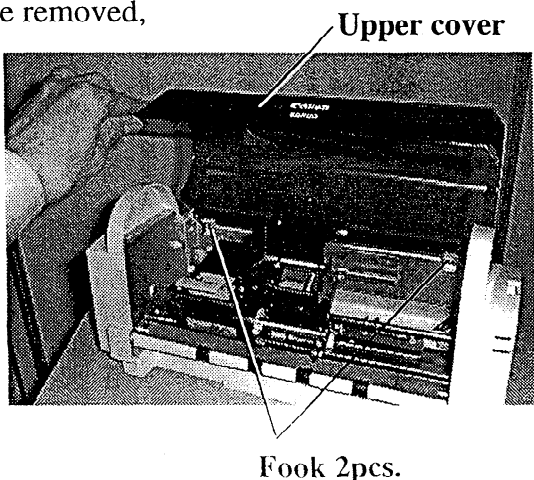
1) Rear cover

- a) Take 2 screws away.



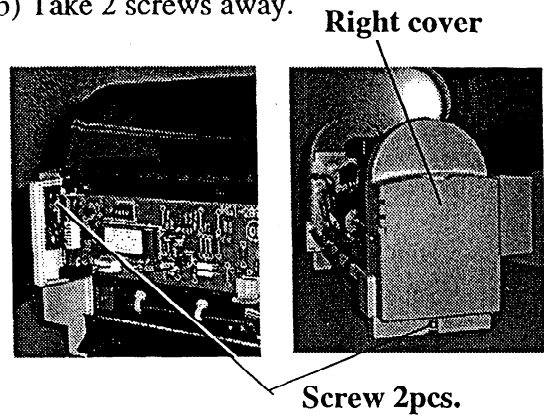
- b) Open a half of the upper cover, take 2 hooks away and remove rear cover.

Note : If not opening a half of the upper cover, hooks can not be removed. And, if opening the cover fully, hooks can also not be removed,

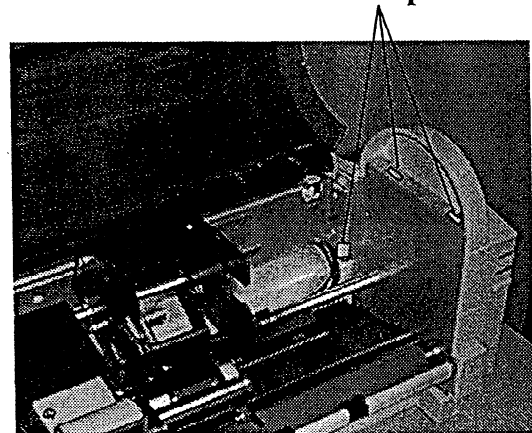


2) Right cover (Right cover assembly)

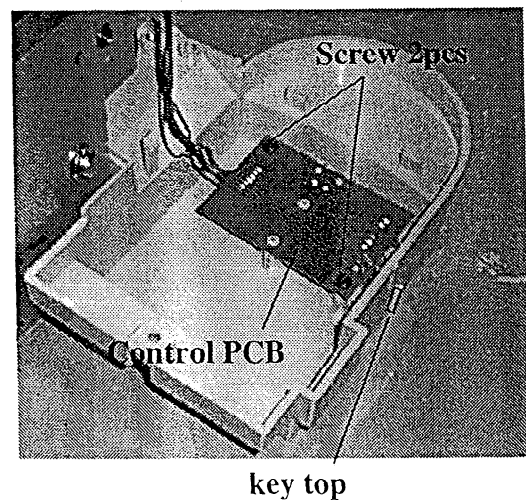
- a) Remove rear cover.
- b) Take 2 screws away.



- c) With removing 3 hooks, remove right cover assembly.

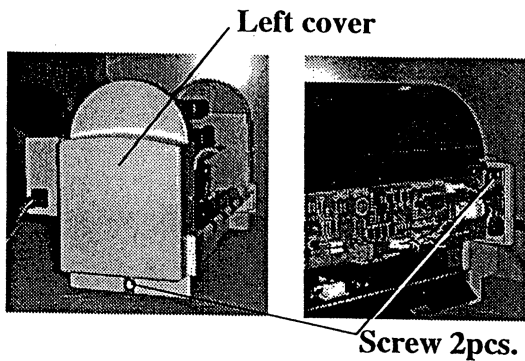


- d) Remove 2 screws (black, self-tap) and take the control PCB and key top of stamping switch away from right cover.

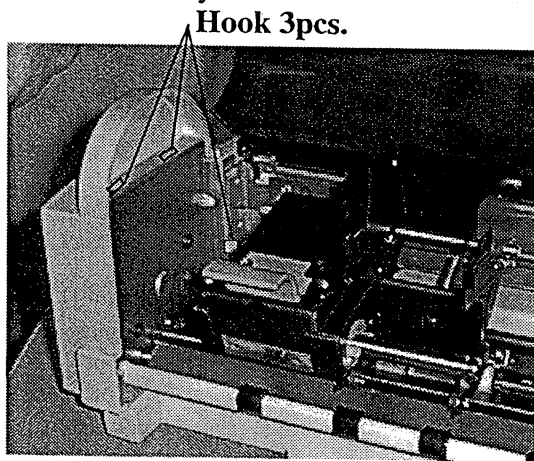


3) Left cover (Left cover assembly)

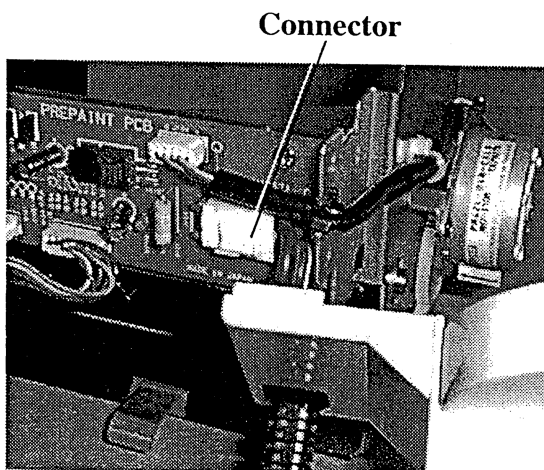
- a) Remove rear cover.
- b) Take 2 screws away.



- c) With removing 3 hooks, remove left cover assembly.

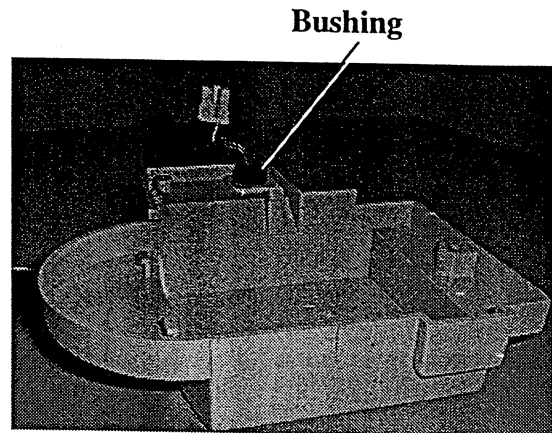


- d) Remove the connector (J107) on prepaint CPU PCB for power supply unit.



- e) While keeping pushing the lock of bushing, remove the bushing and pull the connector out from left cover.

Note : If the connector is hanged at the hole of left cover when pulling the connector out, pull it while pressing the lock of the connector.

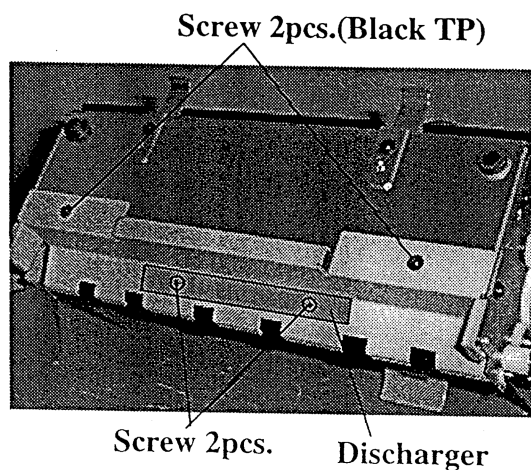


4) Upper cover

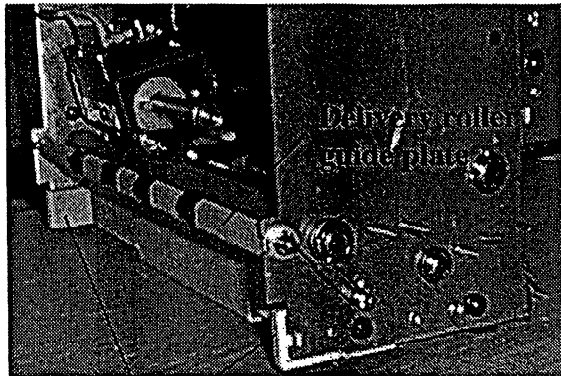
- a) Remove rear cover.
- b) Remove right cover assembly or left cover assembly.
- c) Remove upper cover.

5) Delivery roller guide plate

- a) Remove rear cover.
- b) Remove right cover assembly.
- c) Remove left cover assembly.
- d) Take away 4 screws (2 of them are black TP) on the bottom side of the main body and remove the discharger.



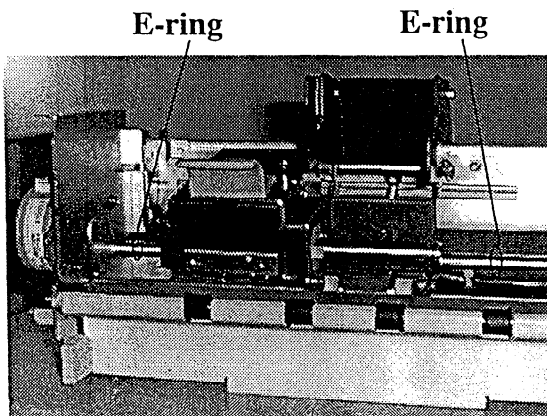
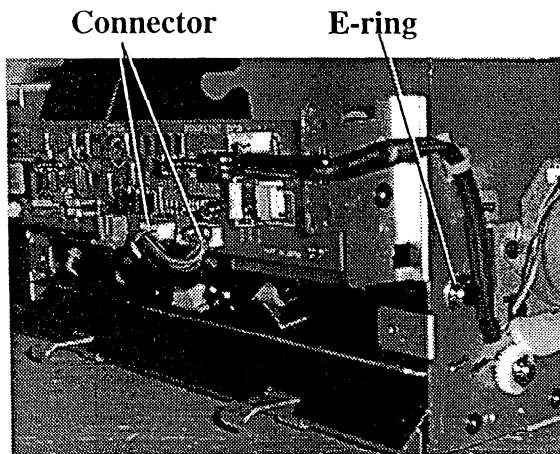
- e) Take away hooks of right and left cover plates and remove cover plate.



- f) Remove delivery roller guide plate.

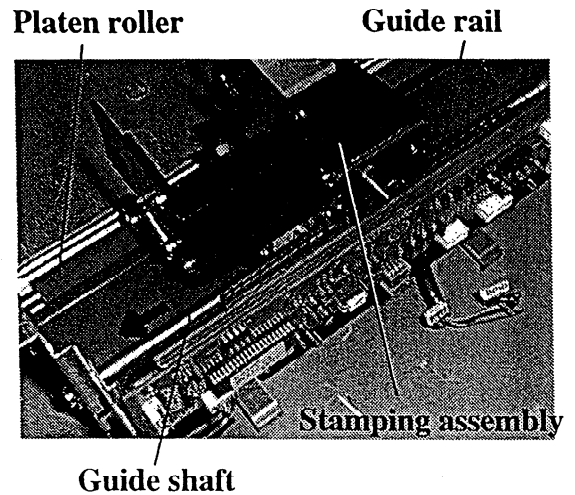
6) Stamping Assembly

- a) Remove rear cover.
- b) Remove right cover assembly.
- c) Remove left cover assembly.
- d) Pull out 2 connectors (J102/J105) on preprint CPU PCB and take away 3 E-rings of the guide shaft.



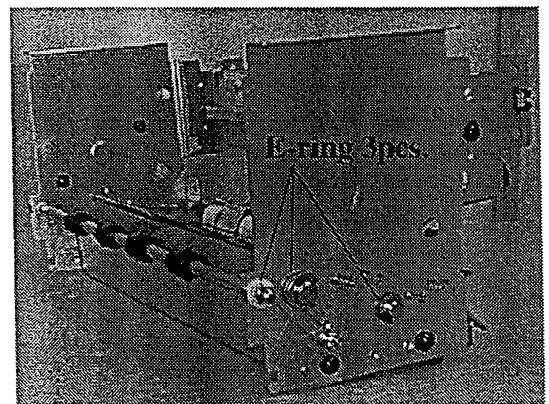
- c) Pull away the guide shaft and remove stamping assembly from guide rail.

Note: Be careful not to be damaged the platen roller.



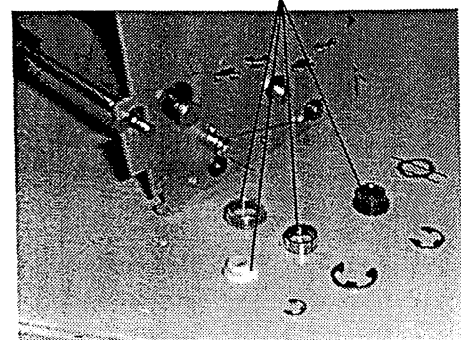
7) Right side plate

- a) Remove rear cover.
- b) Remove right cover assembly.
- c) Remove left cover assembly.
- d) Remove stamping assembly.
- e) Remove delivery roller guide plate.
- f) Take away total 3 E-rings of each roller shaft.



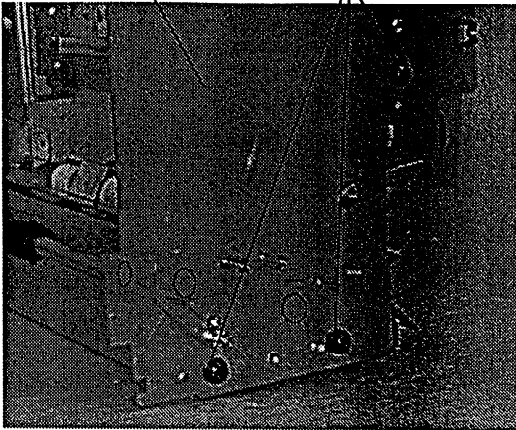
- g) Take away bearings and spacer.

Bearings / Spacer



- h) Take away 3 screws (black TP) and remove the right side plate.

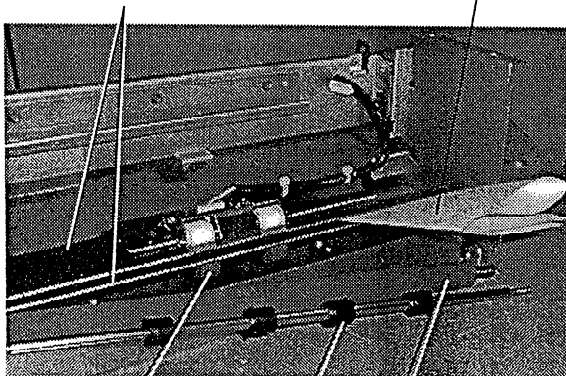
Right side plate Screw 3pcs.



Note: Carefulness when assembling ;

- 1) Be careful many interlocked positions.
- 2) It is easy to keep the clearance to insert some folding papers into the clearance between upper and lower feeding guide plates.
- 3) The following method is easy to be assembled; Insert the positioning of feeding guide plate and feeding roller (driving) into the hole of right side plate and tighten right side plate a littel by screws, and then, insert platen roller and delivery roller.
- 4) Adjust base plate and rear stay positioning boss to the hole of right side plate and insert them.
- 5) Be careful not to be damaged the roller surface.

Feeding guide plate Folding papers

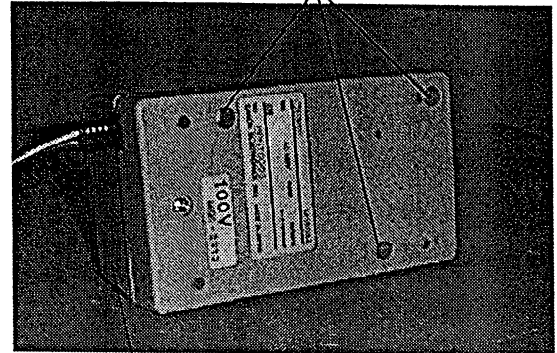


**Feeding roller
Delivery roller
Platen roller**

- 8) Upper cover of power supply

- a) Take away 3 screws of the base plate of power supply unit and remove upper cover of power supply.

Screw 3pcs.



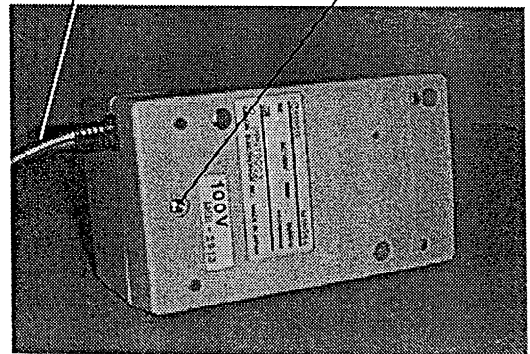
Upper cover of power supply

- 9) DC power supply cable

- a) Remove rear cover.
- b) Remove left cover.
- c) Remove upper cover of power supply.
- d) Take away one screw.

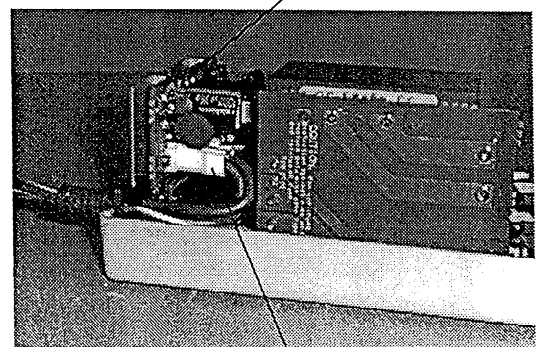
DC power supply cable

Screw



- e) Move power supply PCB a little, pull out connector (J403) and remove DC power supply cable.

Power supply PCB



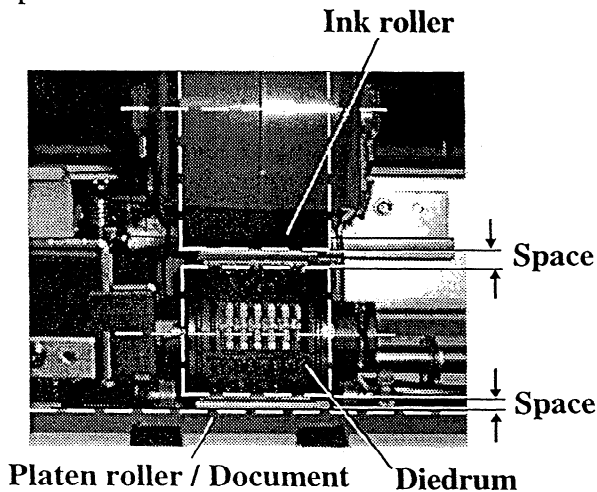
Conector

11. ADJUSTMENT OF STAMPING ASSEMBLY

If the defected density or damaged characters are occurred on the stamping results, position of ink roller or diedrum shall be adjusted. It had been adjusted at shipping from the factory, but, there may be such occasions necessary for adjustment as after replacing parts, etc.

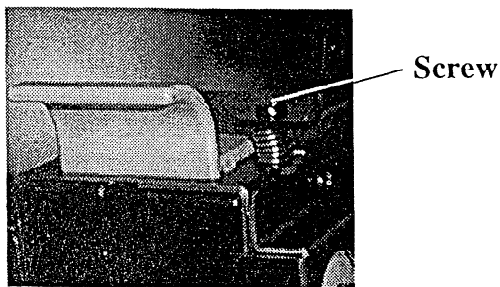
And, if the dislocation of diedrum increases the load of the stamping motor, makes noise loud or makes document jam easy to be happened, it is necessary to be adjusted.

At first, check ink roller and diedrum (including the stamping plate), and then, if they are not defected, adjust the position of the ink roller. And if it is not efficient, diedrum shall be adjusted its position.



1) Adjustment of the position of Ink roller;

The space between ink roller and diedrum can be adjusted by rotating the screws as shown in the following photo, ink roller will be up and down.



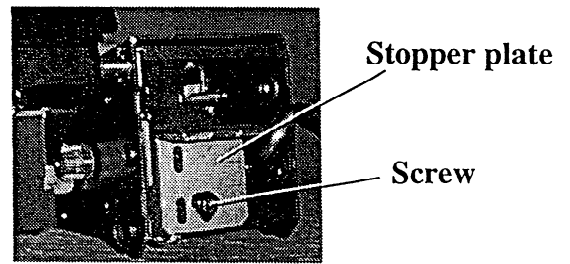
a) If applied amount of ink is lesser, tighten the screw in and narrow the space.

b) If applied amount of ink is more, loosen the screw and widen the space.

Note : On above occasion, ink amount of ink roller itself shall be proper.

2) Adjustment of the position of diedrum;

The space between Die drum and stamping surface can be adjusted, by changing the position of stopper plate tighten with the screws which is rear side of stamping assembly. Make a marking on the location before moving the stopper plate.



a) If the stamped characters are too thin, lower the stopper plate and the space will be narrow.

b) If the stamped characters are broaden and broken, lift the stopper plate and the space will be wide.

c) If the space is narrow too much, increases the load of the stamping motor, makes noise loud or makes document jam easy to be happened. The space shall be widened to the proper width which is not effected on the stamping result.

Note : If the flatness of stamping plate is not good, thin stamping might be occurred partially. Use the stamping plate with stable height and also be careful to be attached.

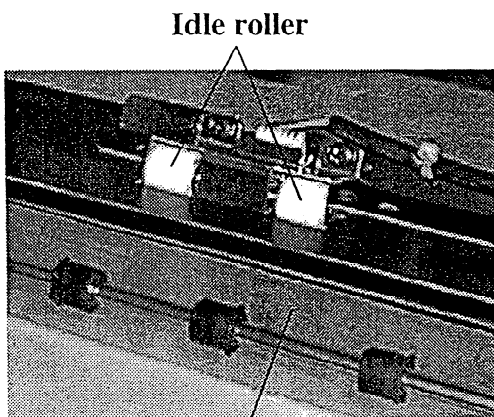
12. MAINTENANCE / SERVICING

1) Periodical service

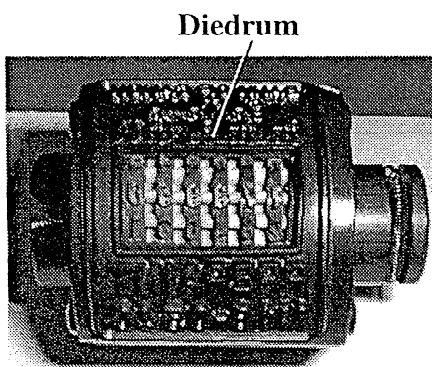
The following positions shall be cleaned at the periodical service. Maintenance interval is approx. 250,000 sheets. As ED500 does not have a counter, refer to a counter of Scanner. Since the maintenance interval of Scanner is 250,000 sheets, the maintenance of ED500 will be better to be performed at the same time as Scanner.

a) Cleaning positions are as follows;

- Idle roller (for feeding)
- Platen roller
- Diedrum



Platen roller



Diedrum

b) Idle roller

- After wiping by a cloth soaked with water, wipe by a dry cloth.
- To rotate the idle roller, the platen roller shall be rotated by fingers.

c) Platen roller

- After wiping by a cloth soaked with water, wipe by a dry cloth.

d) Diedrum

- Clean the date and stamping plate with soft brush. Be careful not to damage it.

e) If there are any other dirty portions with ink, wipe it by a cloth soaked with water, and then, wipe by dry cloth, preventing documents from dirty.

2) Daily maintenance by users

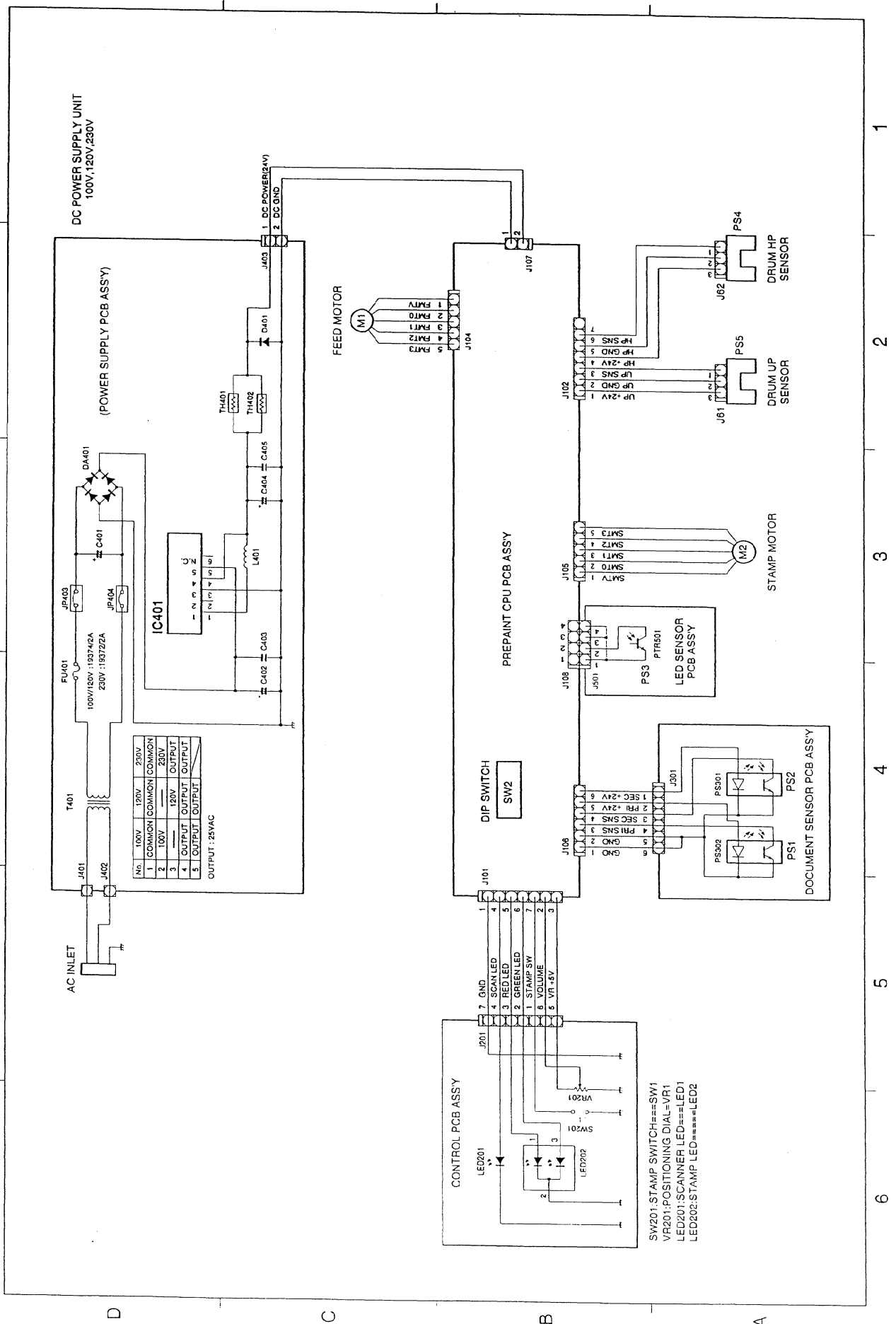
Instruct and request users to clean covers and diedrum at periodically.

And also, if the idle roller or the platen roller is dirt by ink, ask users to clean it by the same cleaning method as the periodical service.

13. CIRCUIT DIAGRAM

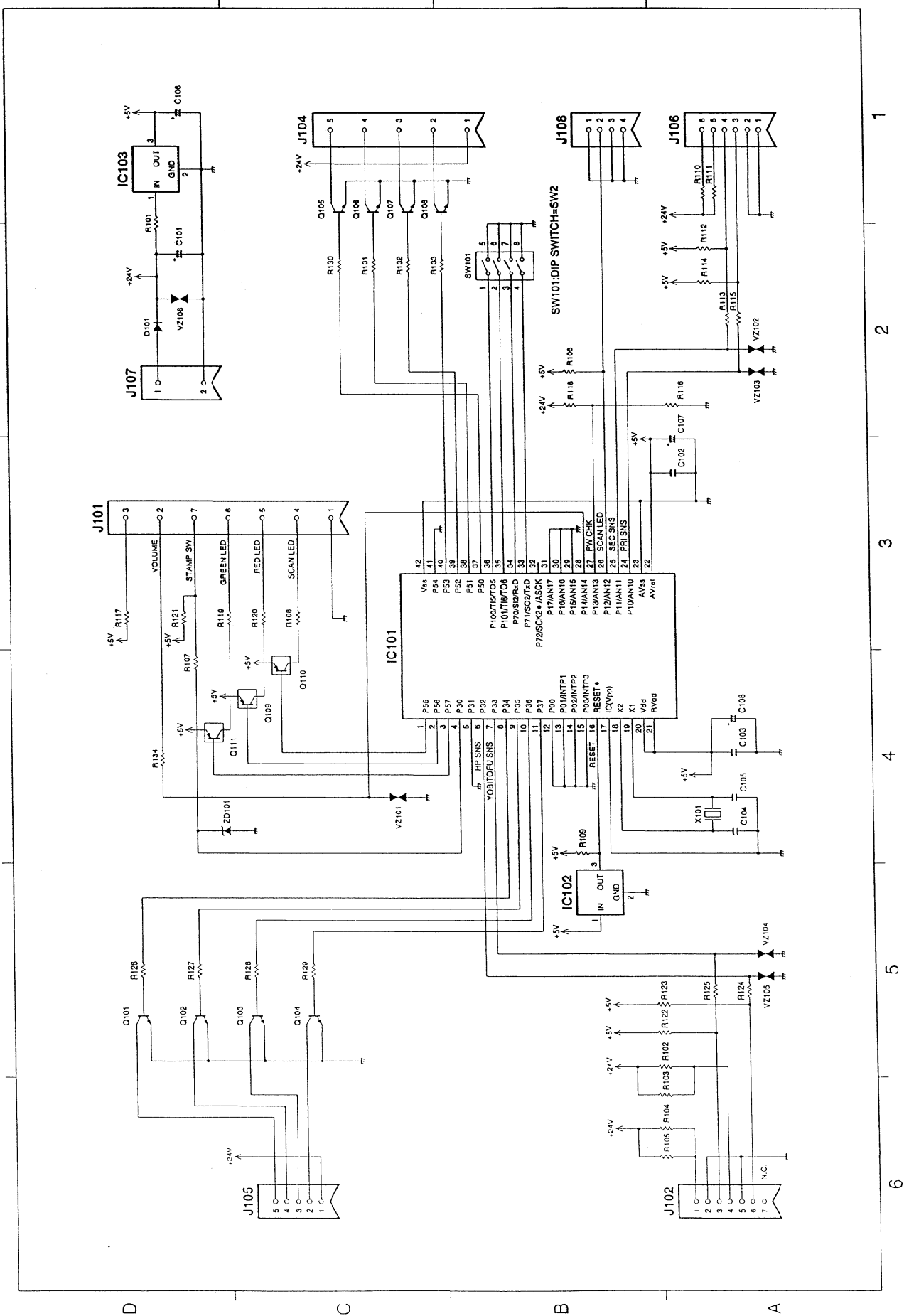
1) General circuit diagram

GENERAL CIRCUIT DIAGRAM



2) Prepaint CPU PCB ass'y circuit diagram

PREPAINT CPU PCB ASS'Y CIRCUIT DIAGRAM



14. PART CATALOG

FIGURE 100 EXTERNAL COVERS
外装カバー部

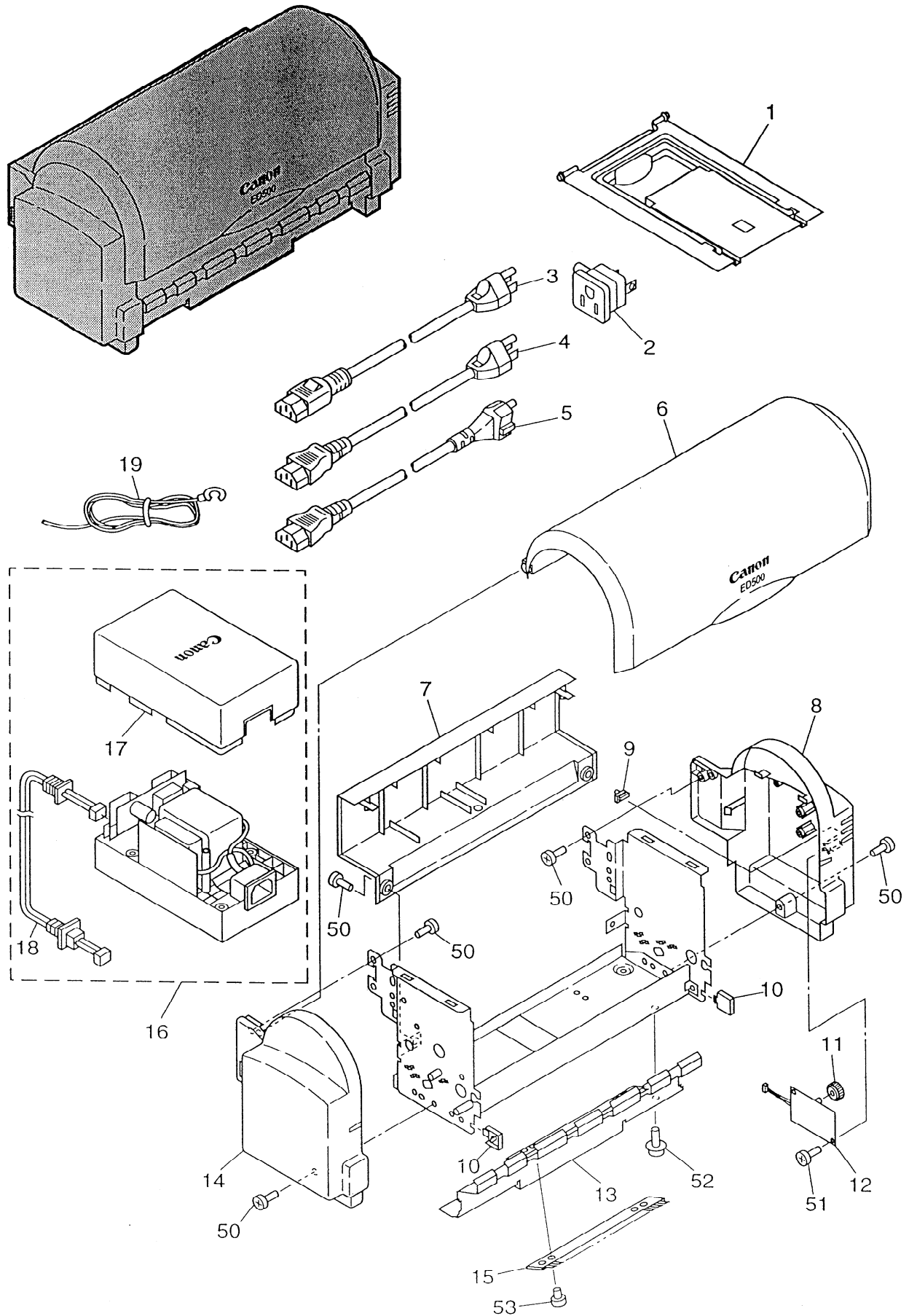


FIGURE & KEY NO.	PARTS NUMBER	R A N K	Q' T Y	DESCRIPTION	REMARKS
100-	1 MG1-2890-000		1	TRAY, DELIVERY E ハイシ トレイ E	
	2 WS5-5069-000		1	PLUG ADAPTER, 2P コンセント アダプタ	100V
	3 RH2-5096-000		1	POWER SUPPLY CORD デンゲン コード	100V
	4 RH2-5145-020		1	POWER SUPPLY CORD デンゲン コード	120V
	5 RH2-5014-030		1	POWER SUPPLY CORD デンゲン コード	230V
	6 MA2-5273-000		1	COVER, UPPER カイヘイ ウエ カバー	
	7 MA2-5272-000		1	COVER, REAR ウシロ カバー	
	8 MF1-3849-000		1	COVER, RIGHT, JPN ミギ カバー	100V
	MF1-3834-000		1	COVER, RIGHT, ENG ミギ カバー	120, 230V
	9 MA2-5269-000	N	1	KEY TOP, CONTROL ソウサブ キー	
	10 MA2-5266-000	N	2	PLATE, SIDE COVER ソク バン カバー	
	11 MF1-3836-000	N	1	KNOB, VOLUME ボリューム ツマミ	
	12 MG1-2895-000		1	PCB ASSEMBLY, CONTROL ソウサ カイロキバン	
	13 MA2-5264-000		1	PLATE, DELIVERY ROLLER GUIDE ハイシ ローラ ガイド バン	
	14 MA2-5271-000		1	COVER, LEFT ヒダリ カバー	
	15 WR8-0001-000		1	BRUSH, STATIC ELIMINATOR ジョデンキ	
	16 MG1-2913-000		1	POWER SUPPLY UNIT, 100V デンゲン ユニット	100V
	MG1-2914-000		1	POWER SUPPLY UNIT, 120V デンゲン ユニット	120V
	MG1-2915-000		1	POWER SUPPLY UNIT, 230V デンゲン ユニット	230V
	17 MA2-5276-000		1	COVER, POWER SUPPLY, UPPER デンゲン ウエ カバー	
	18 MG1-2898-000		1	CABLE ASSEMBLY, DC POWER SUPPLY DC デンゲン ケーブル	
	19 FH2-5006-000		1	WIRE, GROUNDING アース セン	100V
	50 XB1-2300-606		6	SCREW, BH M3x6 バインド ネジ	
	51 XB4-7300-809		2	SCREW, TAP, BINDING HEAD, M3x8 バインド タッピング ネジ	
	52 XB6-7300-609		2	SCREW, TP M3x6 TPネジ	
	53 XB1-2300-407		2	SCREW, BH M3x4 バインド ネジ	

FIGURE 200 INTERNAL COMPONENTS-1
本体機械内部-1

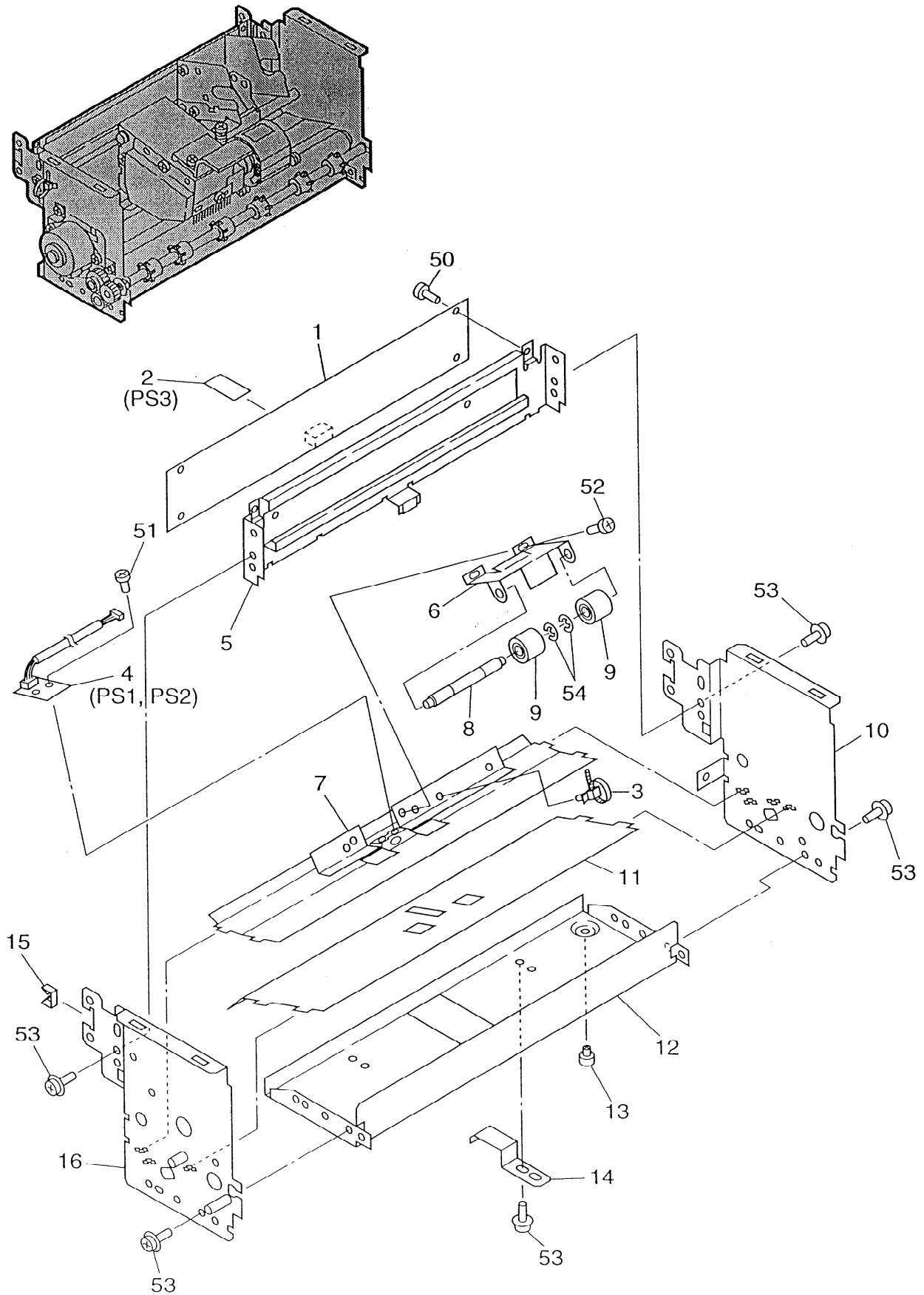


FIGURE & KEY NO.	PARTS NUMBER	R A N K	Q' T Y	DESCRIPTION	REMARKS
200-	1 MG1-2896-020		1	PCB ASSEMBLY, PREPAINT CPU プリペイントCPU カイロキバン	
	2 MG1-2904-000		1	PCB ASSEMBLY, LED SENSOR LED センサ カイロキバン	
	3 WT2-0365-000		2	CLIP, CABLE ツノツキ タバセン オサエ	
	4 MG1-2894-000		1	PCB ASSEMBLY, DOCUMENT SENSOR (B0) ゲンコウ センサ (B0) カイロキバン	
	5 MF1-3832-000	N	1	CROSSMEMBER, REAR ウシロ ステイ	
	6 MA2-5251-000		1	SPRING, LEAF, FEED ROLLER ハンソウ ジュウドウ ローラ イタバネ	
	7 MA2-5255-000	N	1	PLATE, UPPER GUIDE ウエ ガイド バン	
	8 MA2-5265-000	N	1	SHAFT, FEEDER ROLLER ハンソウ ジュウドウ ローラ ジク	
	9 MS1-6088-000		2	ROLLER, IDLE アイドル ローラ	
	10 MA2-5254-000	N	1	PLATE, RIGHT SIDE ミギ ソク バン	
	11 MA2-5256-000	N	1	PLATE, LOWER GUIDE シタ ガイド バン	
	12 MF1-3847-000	N	1	PLATE, BOTTOM ソコ イタ	
	13 RB1-3001-000	N	2	FOOT, RUBBER ゴム アシ	
	14 MA2-5262-000	N	2	PLATE, STOPPER コテイ カナグ	
	15 WT2-0136-000		2	CLIP, CABLE エッジ サドル	
	16 MF1-3831-000	N	1	PLATE, LEFT SIDE ヒダリ ソク バン	
	50 XB1-2300-606		4	SCREW, BH M3x6 バインド ネジ	
	51 XB1-2300-409		2	SCREW, BH M3x4 バインド ネジ	
	52 XB1-2400-409		2	SCREW, BH M4x4 バインド ネジ	
	53 XB6-7300-609		8	SCREW, TP M3x6 TP ネジ	
	54 XD2-1100-402		2	RING, E 4.0 Eガタ トメワ	

FIGURE 300 INTERNAL COMPONENTS-2
本体機械内部-2

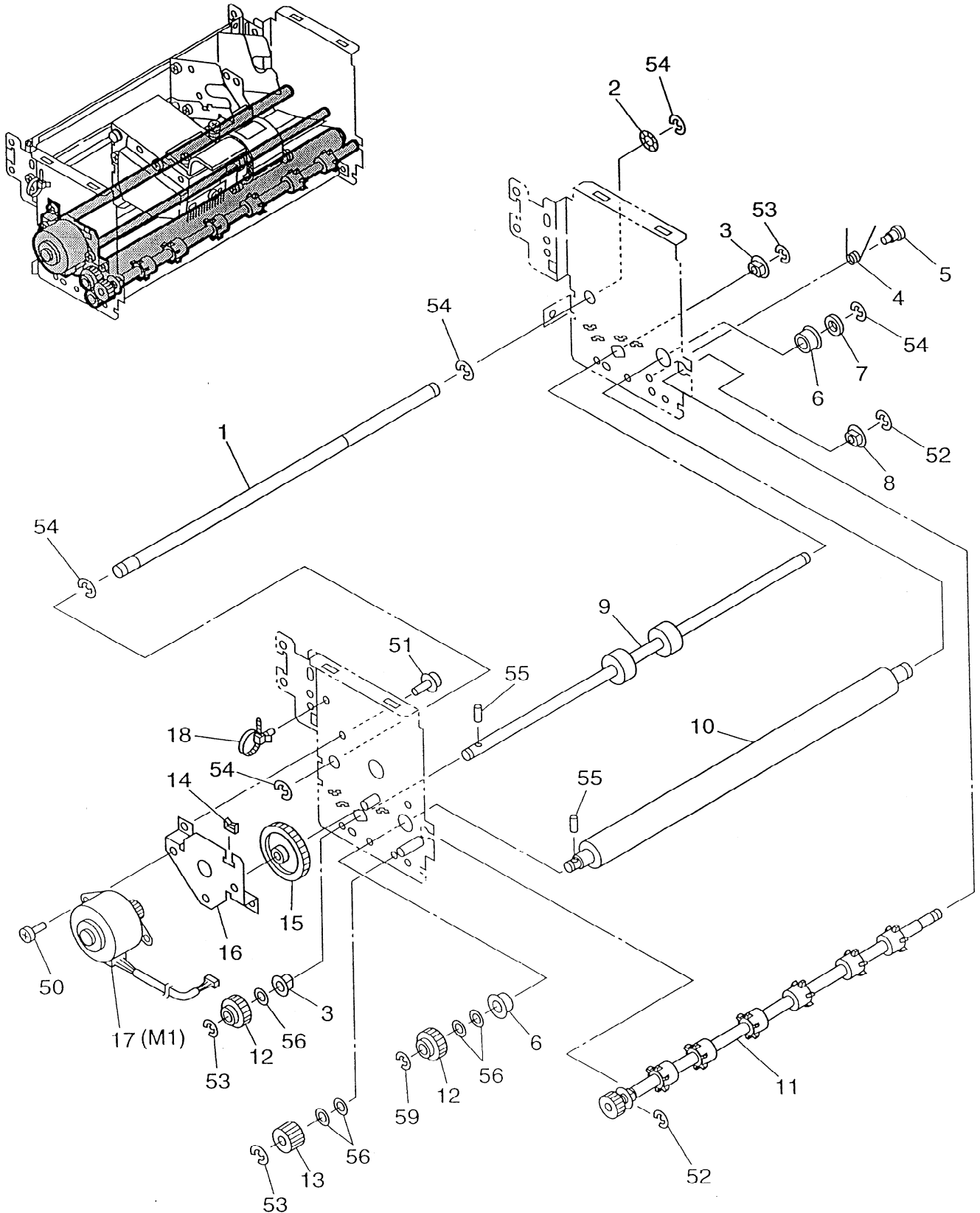


FIGURE & KEY NO.	PARTS NUMBER	R A N K	Q' T Y	DESCRIPTION	REMARKS
300-	1 MA2-5249-000	N	1	SHAFT, GUIDE ガイド ジク	
	2 X71-9774-000		1	WASHER, WAVE ナミ ワッシャ	
	3 FS1-1205-000		2	BUSHING ジクウケ	
	4 MA2-5284-000		1	SPRING, TORSION, GROUNDING アース ヨウ ネジリ コイルバネ	
	5 FS1-9009-000		1	TWO-STEP SCREW, M3 ダン ビス	
	6 XG9-0211-000		2	BALL BEARING フランジツキ ベアリング	
	7 XZ9-0380-000		1	SPACER, 8.0x4 スペーサ	
	8 FS5-1005-000		1	BUSHING スベリ ジクウケ	
	9 MA2-5257-000		1	ROLLER, FEEDER ハンソウ ローラ	
	10 MA2-5258-000		1	ROLLER, PLATEN プラテン ローラ	
	11 MF1-3833-000		1	ROLLER, DELIVERY ハイン ローラ	
	12 FS2-0605-000		2	GEAR, 30T ニュウリョク ギア	
	13 MS1-0864-000		1	GEAR, FEED ADJUSTING B オクリ チョウセイ ギア B	
	14 WT2-5056-000		1	CLIP, CABLE エッジ サドル	
	15 MS1-0967-000		1	GEAR, FEED IDLE ハンソウ アイドラ ギア	
	16 MA2-5261-000	N	1	MOUNT, MOTOR モータ キダイ	
	17 MF1-3333-000		1	MOTOR, DC 7W (FEEDER) キョウツウ モータ (ハンソウ)	
	18 WT2-0365-000		1	CLIP, CABLE ツノツキ タバセン オサエ	
	50 XB1-2300-609		2	SCREW, BH M3x6 バインド ネジ	
	51 XB6-7300-609		2	SCREW, TP M3x6 TPネジ	
	52 XD2-1100-322		2	RING, E 3.2 Eガタ トメワ	
	53 XD2-1100-502		4	RING, E 5.0 Eガタ トメワ	
	54 XD2-1100-642		5	RING, E 6.4 Eガタ トメワ	
	55 XD3-2160-102		2	PIN, DOWEL 1.6x10 ヘイコウ ピン	
	56 XD1-1106-219		5	SHIM, 6.2x1.0 ヒョウジュン ワッシャ	

FIGURE 400 STAMP ASSEMBLY
押印部

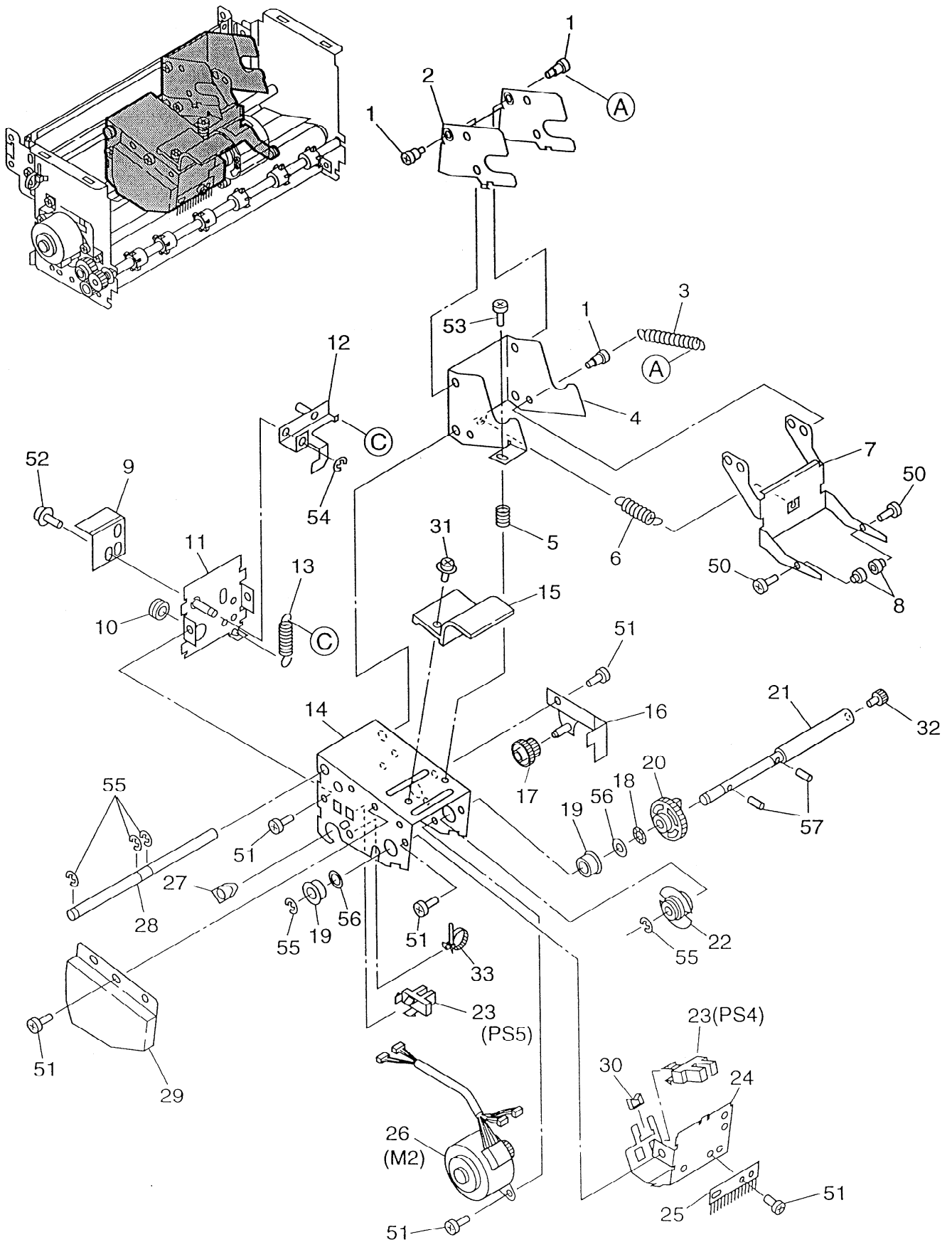


FIGURE & KEY NO.	PARTS NUMBER	RANK	QTY	DESCRIPTION	REMARKS
400-	1 FS1-9009-000		3	TWO-STEP SCREW, M3 ダン ビス	
	2 MA2-4039-000	N	1	GUIDE, INK ROLLER インク ローラ ガイド	
	3 MS1-2395-000		1	SPRING, TENSION, ROLLER インク ローラ シジ バネ	
	4 MA2-4038-000	N	1	MOUNT, INK ROLLER インク ローラ キダイ	
	5 MS1-2328-000		1	SPRING, COMPRESSION, ROLLER インク ローラ カアツ バネ	
	6 MS1-2396-000		1	SPRING, TENSION, BEARING アシスト ローラ シジ バネ	
	7 MA2-5250-000	N	1	MOUNT, ASSIST BEARING アシスト ローラ シャーシ	
	8 MF1-3461-000	N	2	SHAFT, FEEDER ROLLER, DRIVE ハンソウ ローラ ジク	
	9 MF1-3829-000	N	1	PLATE, STOPPER ストップバ キダイ	
	10 WT2-5189-000		1	BUSHING ワンタッチ ブッシュ	
	11 MF1-3827-000	N	1	PLATE, HOUSING REAR ハウジング セイタ	
	12 MF1-3830-000	N	1	PLATE, SUPPORT ARM シジ アーム	
	13 MS1-2394-000		1	SPRING, TENSION, STAMP オウイン プ シジ バネ	
	14 MA2-5237-000	N	1	HOUSING, ENDORSER エンドーサ ハウジング	
	15 MA2-2668-000	N	1	KNOB, GREEN ミドリ イロ ツマミ 2	
	16 MF1-3828-020	N	1	PLATE, GEAR COVER ギア カバー	
	17 MS1-0966-000		1	GEAR, REDUCTION DRIVE クドウ ゲンソク ギア	
	18 X71-9773-000		1	WASHER, WAVE ナミ ワッシャ	
	19 XG3-6012-405		2	BALL BEARING, フランジ ツキ ベアリング	
	20 MS1-0965-000		1	GEAR, DIE DRUM DRIVE ダイ ドラム クドウ ギア	
	21 MA2-5246-000	N	1	SHAFT, DRUM ドラム ジク	
	22 MA2-5247-000	N	1	PLATE, ENCODER, DIE DRUM ダイ ドラム エンコーダ	
	23 WG8-5382-000		2	PHOTO INTERRUPTER フォトセンサ	
	24 MA2-5239-000	N	1	PLATE, SENSOR COVER センサ トリツケ カバー	
	25 RB1-6203-000	N	1	BRUSH, STATIC ELIMINATOR TR ジョデン ブラシ	
	26 MG1-2921-000		1	MOTOR ASSEMBLY, DC 7W ギアツキ オウイン モータ ユニット	
	27 MA2-5248-000		2	BUSHING ハウジング ジクウケ	
	28 MA2-5245-000	N	1	SHAFT, INK ROLLER インクローラ ジク	
	29 MA2-5279-000	N	1	PLATE, HOUSING COVER ハウジング カバー	
	30 WT2-5056-000		1	CLIP, CABLE エッジ サドル	
	31 XA9-0397-000		1	SCREW, TP M3x6 TP ネジ	
	32 XA9-0964-000		1	SCREW, KNOB M4x8 ツمامイツキ ネジ	
	33 WT2-0365-000		1	CLIP, CABLE ツノツキ タバセン オサエ	
	50 XB1-2200-506		2	SCREW, BH M2x5 バインド ネジ	
	51 XB1-2300-409		8	SCREW, BH M3x4 バインド ネジ	

FIGURE 500 DIE DRUM ASSEMBLY
ダイドラム部 (B110)

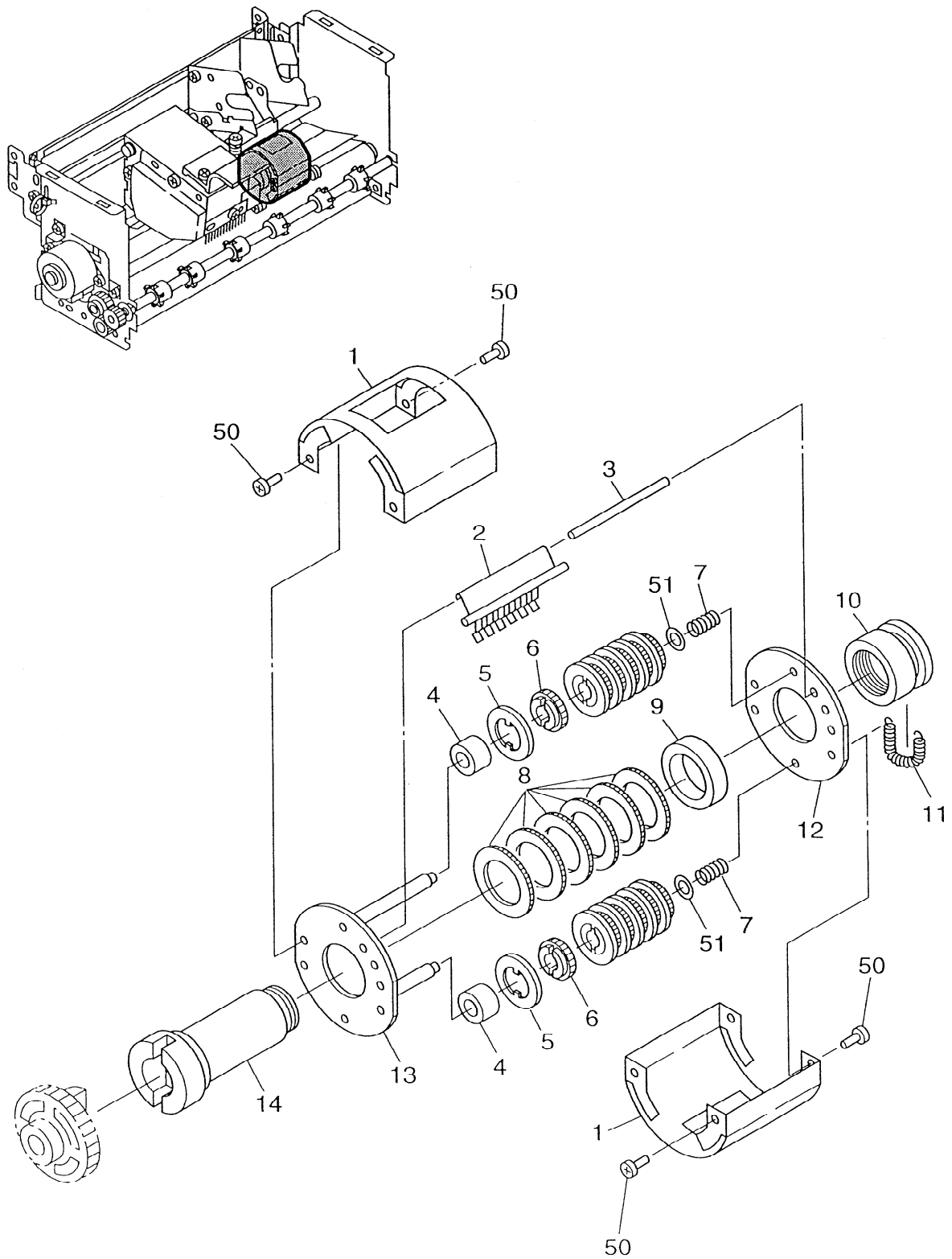


FIGURE & KEY NO.	PARTS NUMBER	R A N K	Q' T Y	DESCRIPTION	REMARKS
500-	1 MA1-4883-020		2	PLATE, STAMP オウインパン ハリツケ イタ	
	2 MA1-4872-000	N	1	SPRING, PLATE オサエ バネ	
	3 MA1-4874-000	N	1	SHAFT, PLATE SPRING イタバネ ヨウ ジク	
	4 MA1-4878-000	N	2	COLLAR カラー	
	5 MA1-4871-030	N	12	RING, STAMP, BROWN モジ ワク	
6 MA2-2056-020		12	GEAR, SET-RING, LIGHT BLUE モジワ トリツケ ハゲルマ		
7 MS1-2334-000		2	SPRING, COMPRESSION アッシュク バネ		
8 MA1-4873-000		6	GEAR ヒラ ハゲルマ		
9 MA1-4877-000	N	1	COLLAR カラー		
10 MA1-4880-000	N	1	HOLDER ホルダ		
11 MA1-4882-000	N	1	SPRING, CLICK クリック ヨウ スプリング		
12 MA1-4875-000	N	1	COVER ソク バン		
13 MF1-0942-000	N	1	PLATE, SIDE ソク バン		
14 MA1-4881-000	N	1	SHAFT, MAIN メイン シャフト		
50 XB1-2300-409		8	SCREW, BH M3x4 バインド ネジ		
51 XD1-1104-125		2	SHIM, 4.1x0.5 ヒョウジュン ワッシャ		

NUMERICAL INDEX
部品索引表

PARTS NO.	FIG.- KEYNUMBER	Q' TY	PARTS NO.	FIG.- KEYNUMBER	Q' TY	PARTS NO.	FIG.- KEYNUMBER	Q' TY
FH2-5006-000	100-19	1	MA2-5272-000	100-07	1	RH2-5096-000	100-03	1
			MA2-5273-000	100-06	1	RH2-5145-020	100-04	1
FS1-1205-000	300-03	2	MA2-5276-000	100-17	1			
FS1-9009-000	300-05	1	MA2-5279-000	400-29	1	WG8-5382-000	400-23	2
FS1-9009-000	400-01	3	MA2-5284-000	300-04	1			
						WR8-0001-000	100-15	1
FS2-0605-000	300-12	2	MF1-0942-000	500-13	1			
			MF1-3333-000	300-17	1	WS5-5069-000	100-02	1
FSS-1005-000	300-08	1	MF1-3461-000	400-08	2			
			MF1-3827-000	400-11	1	WT2-0136-000	200-15	2
MA1-4871-030	500-05	12	MF1-3828-020	400-16	1	WT2-0365-000	200-03	2
MA1-4872-000	500-02	1	MF1-3829-000	400-09	1	WT2-0365-000	300-18	1
MA1-4873-000	500-08	6	MF1-3830-000	400-12	1	WT2-0365-000	400-33	1
MA1-4874-000	500-03	1	MF1-3831-000	200-16	1	WT2-5056-000	300-14	1
MA1-4875-000	500-12	1	MF1-3832-000	200-05	1	WT2-5056-000	400-30	1
MA1-4877-000	500-09	1	MF1-3833-000	300-11	1	WT2-5189-000	400-10	1
MA1-4878-000	500-04	2	MF1-3834-000	100-08	1			
MA1-4880-000	500-10	1	MF1-3836-000	100-11	1	X71-9773-000	400-18	1
MA1-4881-000	500-14	1	MF1-3847-000	200-12	1	X71-9774-000	300-02	1
MA1-4882-000	500-11	1	MF1-3849-000	100-08	1			
MA1-4883-020	500-01	2				XA9-0397-000	400-31	1
			MG1-2890-000	100-01	1	XA9-0964-000	400-32	1
MA2-2056-020	500-06	12	MG1-2894-000	200-04	1			
MA2-2668-000	400-15	1	MG1-2895-000	100-12	1	XB1-2200-506	400-50	2
MA2-4038-000	400-04	1	MG1-2896-020	200-01	1	XB1-2300-407	100-53	2
MA2-4039-000	400-02	1	MG1-2898-000	100-18	1	XB1-2300-409	200-51	2
MA2-5237-000	400-14	1	MG1-2904-000	200-02	1	XB1-2300-409	400-51	8
MA2-5239-000	400-24	1	MG1-2913-000	100-16	1	XB1-2300-409	500-50	8
MA2-5245-000	400-28	1	MG1-2914-000	100-16	1	XB1-2300-606	100-50	6
MA2-5246-000	400-21	1	MG1-2915-000	100-16	1	XB1-2300-606	200-50	4
MA2-5247-000	400-22	1	MG1-2921-000	400-26	1	XB1-2300-609	300-50	2
MA2-5248-000	400-27	2				XB1-2301-609	400-53	1
MA2-5249-000	300-01	1	MS1-0864-000	300-13	1	XB1-2400-409	200-52	2
MA2-5250-000	400-07	1	MS1-0965-000	400-20	1			
MA2-5251-000	200-06	1	MS1-0966-000	400-17	1	XB4-7300-809	100-51	2
MA2-5254-000	200-10	1	MS1-0967-000	300-15	1			
MA2-5255-000	200-07	1	MS1-2328-000	400-05	1	XB6-7300-609	100-52	2
MA2-5256-000	200-11	1	MS1-2334-000	500-07	2	XB6-7300-609	200-53	8
MA2-5257-000	300-09	1	MS1-2394-000	400-13	1	XB6-7300-609	300-51	2
MA2-5258-000	300-10	1	MS1-2395-000	400-03	1	XB6-7300-609	400-52	1
MA2-5261-000	300-16	1	MS1-2396-000	400-06	1			
MA2-5262-000	200-14	2	MS1-6088-000	200-09	2	XD1-1104-125	500-51	2
MA2-5264-000	100-13	1				XD1-1106-219	300-56	5
MA2-5265-000	200-08	1	RB1-3001-000	200-13	2	XD1-1106-223	400-56	2
MA2-5266-000	100-10	2	RB1-6203-000	400-25	1			
MA2-5269-000	100-09	1				XD2-1100-322	300-52	2
MA2-5271-000	100-14	1	RH2-5014-030	100-05	1	XD2-1100-322	400-54	1

PARTS NO.	FIG.- KEYNUMBER	Q ' TY	PARTS NO.	FIG.- KEYNUMBER	Q ' TY	PARTS NO.	FIG.- KEYNUMBER	Q ' TY
XD2-1100-402	200-54	2						
XD2-1100-502	300-53	4						
XD2-1100-502	400-55	5						
XD2-1100-642	300-54	5						
XD3-2160-102	300-55	2						
XD3-2200-102	400-57	2						
XG3-6012-405	400-19	2						
XG9-0211-000	300-06	2						
XZ9-0380-000	300-07	1						

