

Model  
PI-110  
Cover Sheet Feeder

with Parts Catalog  
(Used on Model 7165)

 SERVICE MANUAL and PARTS CATALOG



# **PI-110**

# **SERVICE MANUAL**

**NOVEMBER 2001**

**Used on Konica Model**  
**7165**

## IMPORTANT NOTICE

Because of the possible hazards to an inexperienced person servicing this equipment, as well as the risk of damage to the equipment, Konica Business Technologies strongly recommends that all servicing be performed by Konica-trained service technicians only.

Changes may have been made to this equipment to improve its performance after this service manual was printed. Accordingly, Konica Business Technologies, Inc., makes no representations or warranties, either expressed or implied, that the information contained in this service manual is complete or accurate. It is understood that the user of this manual must assume all risks or personal injury and/or damage to the equipment while servicing the equipment for which this service manual is intended.

Corporate Publications Department



# CONTENTS

## SAFETY AND IMPORTANT WARNING ITEMS

Refer to the 7165 service handbook on page ..... S-1

## 1. OUTLINE

PI-110 PRODUCT SPECIFICATIONS .....	1-1
CENTER CROSS SECTION .....	1-2
DRIVE SYSTEM DIAGRAM .....	1-3
FEEDING PROCESS .....	1-4
[1] Automatic Sheet Feeding (online operation) .....	1-4
[2] Manual Sheet Feeding (offline operation) ..	1-4

## 2. UNIT EXPLANATION

EXTERNAL SECTION .....	2-1
[1] Composition .....	2-1
[2] Mechanisms .....	2-1
[3] Interlock control .....	2-1
PAPER FEED UNIT .....	2-2
[1] Composition .....	2-2
[2] Mechanisms .....	2-2
[3] Feed Control .....	2-3

## 3. DISASSEMBLY/ASSEMBLY

EXTERNAL SECTION .....	3-1
[1] Detaching / Re-installing the External covers .....	3-1
PAPER FEED UNIT .....	3-2
[1] Replacing the Paper feed roller and Feed roller .....	3-2
[2] Replacing the Double feed prevention roller and Torque limiter .....	3-3

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# SAFETY PRECAUTIONS

## Installation Environment

Safety considerations usually are directed toward machine design and the possibility of human error. In addition, the environment in which a machine is operated must not be overlooked as a potential safety hazard.

Most electrical equipment is safe when installed in a normal environment. However, if the environment is different from what most people consider to be normal, it is conceivable that the combination of the machine and the room air could present a hazardous combination. This is because heat (such as from fusing units) and electrical arcs (which can occur inside switches) have the ability to ignite flammable substances, including air.

**When installing a machine, check to see if there is anything nearby which suggests that a potential hazard might exist.** For example, a laboratory might use organic compounds which, when they evaporate, make the room air volatile. Potentially dangerous conditions might be seen or smelled. *The presence of substances such as cleaners, paint thinners, gasoline, alcohol, solvents, explosives, or similar items should be cause for concern.*

If conditions such as these exist, take appropriate action, such as one of the following suggestions.

- Determine that the environment is controlled (such as through the use of an exhaust hood) so that an offending substance or its fumes cannot reach the machine.
- Remove the offending substance.
- Install the machine in a different location.

The specific remedy will vary from site to site, but the principles remain the same. To avoid the risk of injury or damage, be alert for changes in the environment when performing subsequent service on any machine, and take appropriate action.

## Unauthorized Modifications

Konica equipment has gained a reputation for being reliable products. This has been attained by a combination of outstanding design and a knowledgeable service force.

The design of the equipment is extremely important. It is the design process that determines tolerances and *safety margins* for mechanical, electrical, and electronic aspects. It is not reasonable to expect individuals not involved in product engineering to

know what effect may be caused by altering any aspect of the machine's design. Such changes have the potential of degrading product performance and reducing safety margins.

For these reasons, *installation of any modification not specifically authorized by Konica Business Machines U.S.A., Inc., is strictly prohibited.*

The following list of prohibited actions is not all-inclusive, but demonstrates the intent of this policy.

- Using an extension cord or any unauthorized power cord adapter.
- Installing any fuse whose rating and physical size differs from that originally installed.
- Using wire, paper clips, solder, etc., to replace or eliminate any fuse (including temperature fuses).
- Removing (except for replacement) any air filter.
- Defeating the operation of relays by any means (such as wedging paper between contacts).
- Causing the machine to operate in a fashion other than as it was designed.
- Making any change which might have a chance of defeating built-in safety features.
- Using any unspecified replacement parts.

## General Safety Guidelines

This equipment has been examined in accordance with the laws pertaining to various product safety regulations prior to leaving the manufacturing facility to protect the operators and service personnel from injury. However, as with any operating device, components will break down through the wear-and-tear of everyday use, as will additional safety discrepancies be discovered. For this reason, it is important that the technician periodically performs safety checks on the equipment to maintain optimum reliability and safety.

The following checks, not all-inclusive, should be made during each service call:

**CAUTION:** Avoid injury. Ensure that the equipment is disconnected from its power source before continuing.

- Look for sharp edges, burrs, and damage on all external covers and copier frame.
- Inspect all cover hinges for wear (loose or broken).
- Inspect cables for wear, frays, or pinched areas.

- Ensure that the power cord insulation is not damaged (no exposed electrical conductors).
- Ensure that the power cord is properly mounted to the frame by cord clamps.
- Check the continuity from the round lug (GND) of the power cord to the frame of the copier – ensure continuity. An improperly grounded machine can cause an electrically-charged machine frame.

### Safeguards During Service Calls

Confirm that all screws, parts, and wiring which are removed during maintenance are installed in their original positions.

- When disconnecting connectors, do not pull the wiring, particularly on AC line wiring and high voltage parts.
- Do not route the power cord where it is likely to be stepped on or crushed.
- Carefully remove all toner and dirt adhering to any electrical units or electrodes.
- After part replacement or repair work, route the wiring in such a way that it does not contact any burrs or sharp edges.
- Do not make any adjustments outside of the specified range.

### Applying Isopropyl Alcohol

Care should be exercised when using isopropyl alcohol, due to its flammability. When using alcohol to clean parts, observe the following precautions:

- Remove power from the equipment.
- Use alcohol in small quantities to avoid spillage or puddling. Any spillage should be cleaned up with rags and disposed of properly.
- Be sure that there is adequate ventilation.
- Allow a surface which has been in contact with alcohol to dry for a few minutes to ensure that the alcohol has evaporated completely before applying power or installing covers.

### Summary

It is the responsibility of every technician to use professional skills when servicing Konica products. There are no short cuts to high-quality service. Each piece of equipment must be thoroughly inspected with respect to safety considerations as part of every routine service call. The operability of the copier, and more importantly, the safety of those who operate or service the equipment, are directly dependent upon the conscientious effort of each and every technician.

Remember...when performing service calls, use good judgment (have a watchful eye) to identify safety hazards or potential safety hazards that may be present, and correct these problem areas as they are identified – the safety of those who operate the equipment as well as those who service the copier depend on it!





# OUTLINE

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# PI-110 PRODUCT SPECIFICATIONS

## [1] Type

### Type:

Sheet feeder employing torque-limiter separation

## [2] Functions

### Automatic sheet feed (online operation):

The PI-110 automatically feeds sheets into the finisher in accordance with instructions from the main body.

### Manual sheet feed (offline operation):

User feeds sheets into finisher by operating the PI operation panel.

User can select from the following four finishing modes:

- Single-staple mode (staple at rear)
- Two-staple mode (flat stapling)
- Punch mode (with PK)
- Stitch-and-fold mode (available only if mounted to the FS-210)
- Three-fold mode (available only if mounted to the FS-210)
- \* Manual sheet feed is only available with the lower tray.

## [3] Copy Paper

### Plain paper:

60 to 90 g/m<sup>2</sup> or 17lbs to 24lbs high-quality paper, recycled paper

### Special paper:

- 50 to 59 g/m<sup>2</sup> or 13lbs to 16lbs high-quality paper, recycled paper
- 91 to 200 g/m<sup>2</sup> or 24lbs to 45lbs high-quality paper, recycled paper

### Printing paper:

- Double-sided art paper
- Mat coating paper
- High-quality paper

### Upper tray copy sizes:

- Metric area  
A4, A4R, B5, B5R, A5
- Inch area  
8.5×11, 8.5×11R, 5.5×8.5

### Lower tray copy sizes:

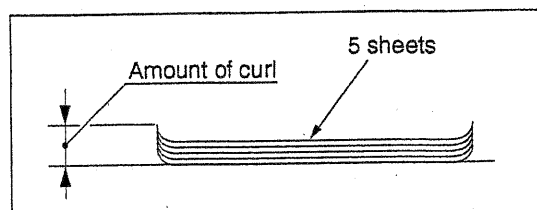
- Metric area  
A3, B4, A4, A4R, B5, B5R, A5, F4  
wide paper (314mm x 445mm max.)
- Inch area  
11×17, 8.5×14, 8.5×11, 8.5×11R, 5.5×8.5,  
wide paper (314mm x 445mm max.)

### Paper staking capacity:

Up to 200 sheets (when using 128 g/m<sup>2</sup> or 28lbs-equivalent paper) to max. height of 30mm

### Paper curling:

Max. 10 mm



## [4] Power, Weight, Dimensions

### Power source:

24VDC, 5VDC (supplied from FNS)

### Maximum power:

30VA

### Weight:

Approx. 10.5 kg

### External dimensions:

Approx. 511(W)×620(D)×220(H) (mm)

## [5] Maintenance

### Maintenance:

Same as for the mainbody.

### Service life:

Same as the mainbody.

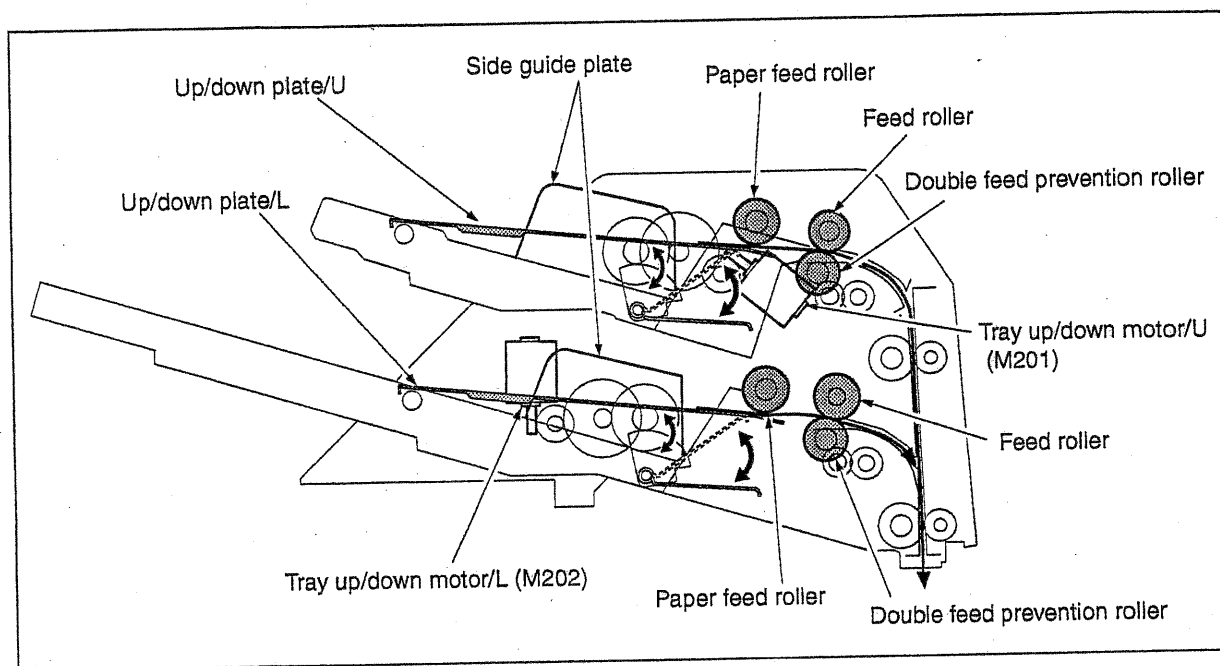
## [6] Operating environment

Temperature: 10 to 30°C (50°F to 86°F)

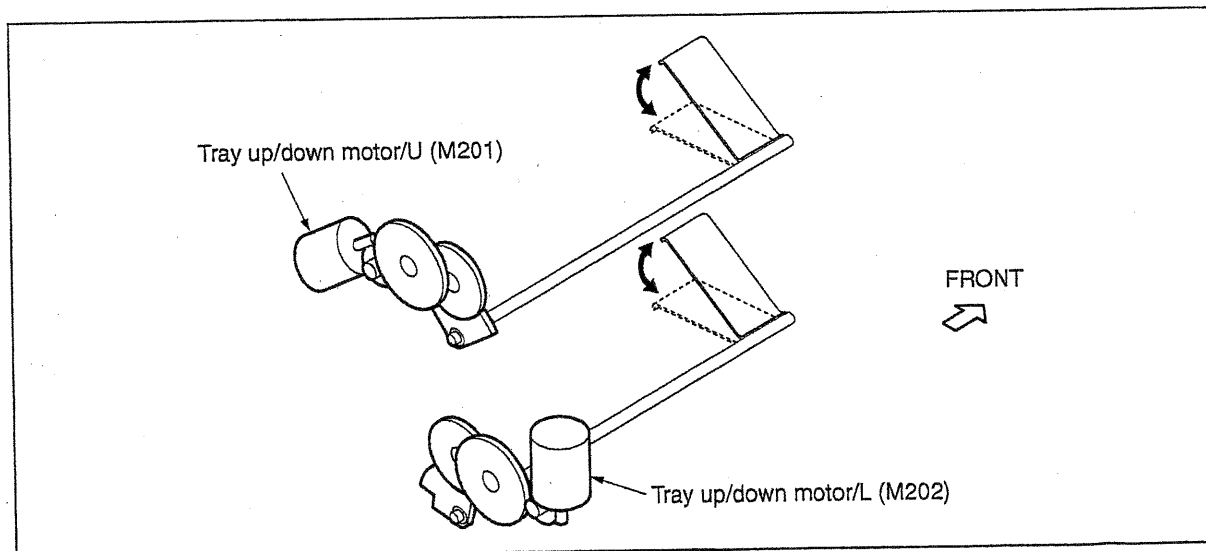
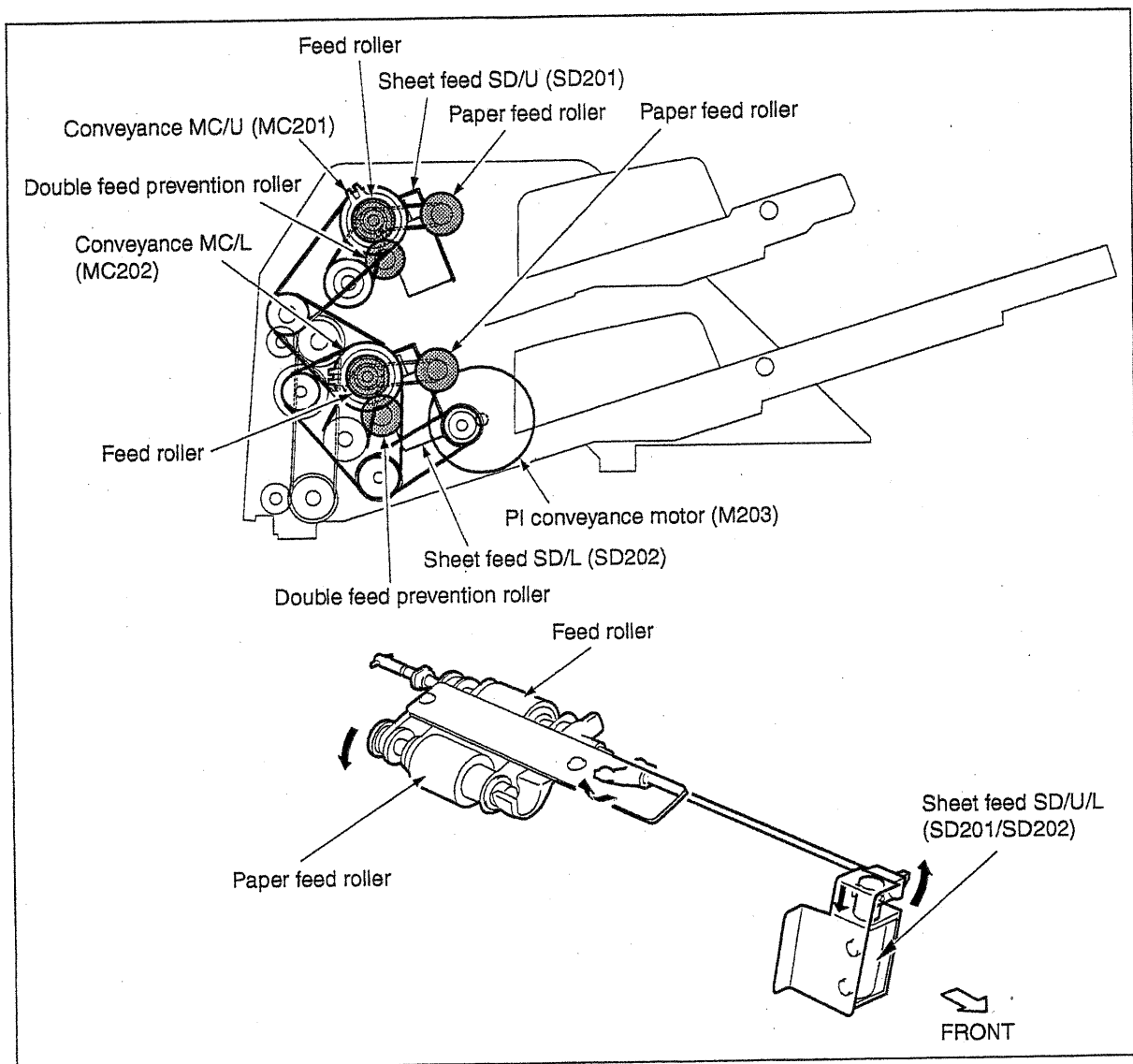
Humidity: 10 to 80% RH

**Note:** The information herein may be subject to change for improvement without notice.

# CENTER CROSS SECTION



# DRIVE SYSTEM DIAGRAM



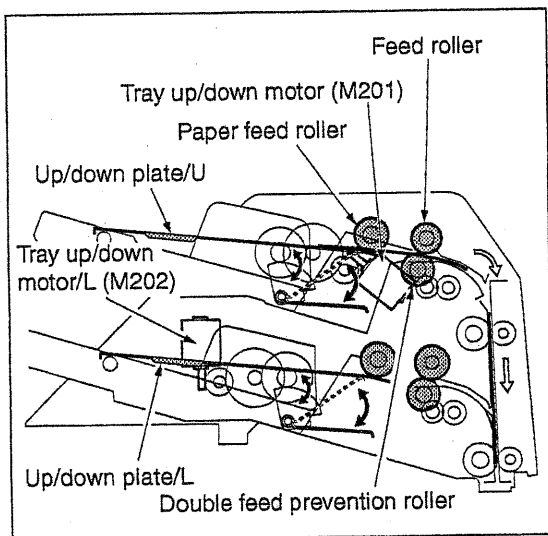
# FEEDING PROCESS

## [1] Automatic Sheet Feeding (online operation)

Tray up/down motors/U/L (M201/M202) raise the Up/down plate/U/L.

When sheet feed SD/U/L (SD201/SD202) and conveyance MC/U/L (MC201/MC202) come ON, the drive of PI conveyance motor (M203) is transmitted and the sheets are fed, one by one, by paper feed, feed, and double feed prevention rollers.

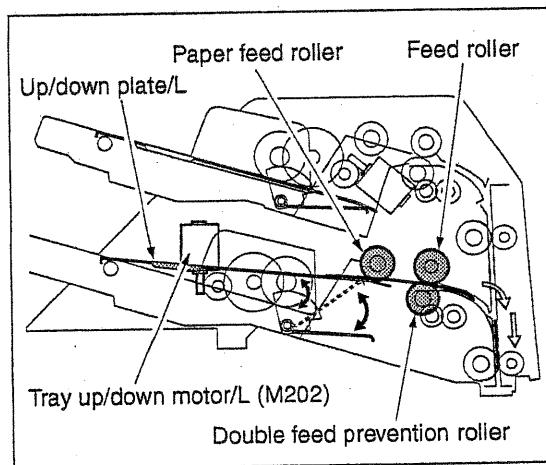
Sheets are stacked in the FNS as cover sheets for papers conveyed from the main body, and then applied with finishing processes.



## [2] Manual Sheet Feeding (offline operation)

M201/M202 (tray up/down/U/L) raises the Up/down plate/L.

When sheet feed SD/U/L (SD201/SD202) and conveyance MC/U/L (MC201/MC202) come ON, the drive of PI conveyance motor (M203) is transmitted and all sheets set on the lower tray are fed into the FNS stacker by paper feed, feed, and double feed prevention rollers. FNS carries out finishing processes.



# 2

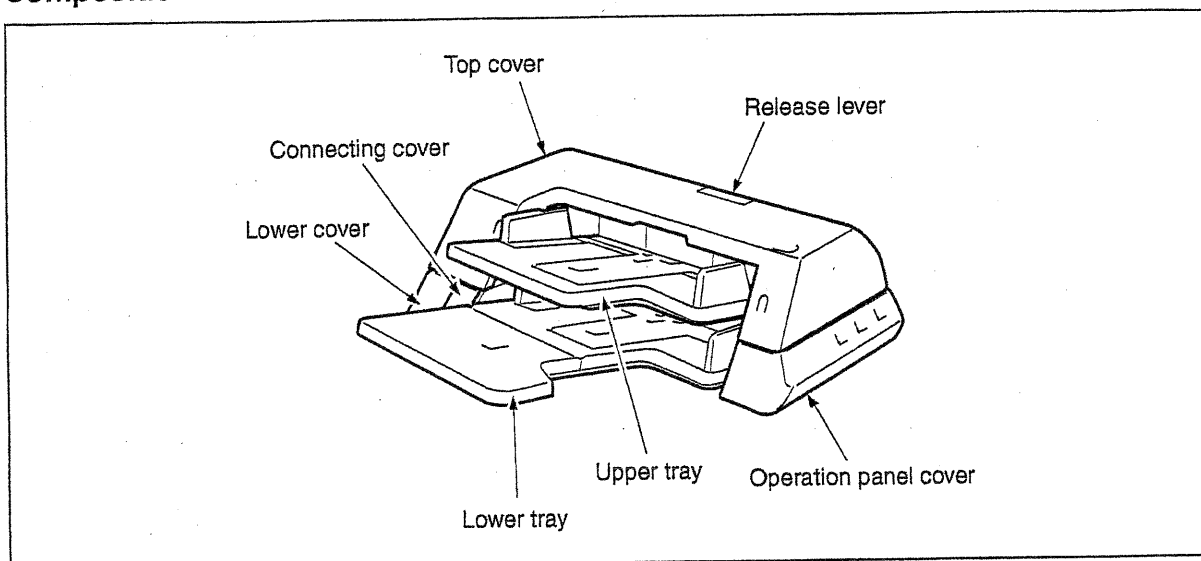
## UNIT EXPLANATION

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# EXTERNAL SECTION

## [1] Composition



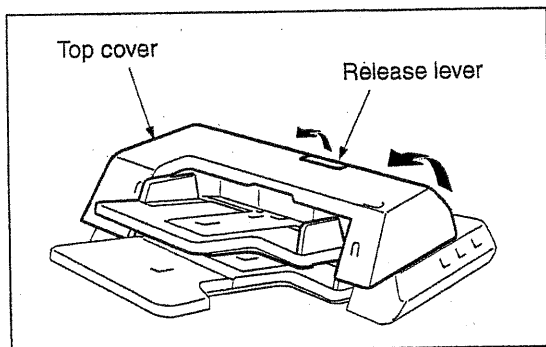
## [2] Mechanisms

Mechanism	Method
Clearing paper jams*1	Release lever

### \*1 Clearing paper jams

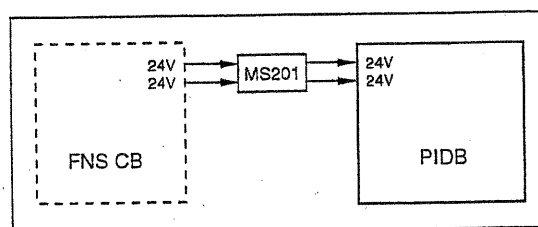
Clear paper jams with the following procedure:

- (1) Lift the release lever.
- (2) In that status, lift up the upper tray in a slanting direction.



- (3) Remove paper jams.

## [3] Interlock control



Interlock control uses MS201 (PI interlock MS) that detects the opened upper tray.

### 1. Operation

#### a. Detecting the opened upper tray

MS201 (PI interlock) is a switch for the interlock. When opening the upper tray of PI, MS201 goes OFF and 24V power from FNS CB is shut off.

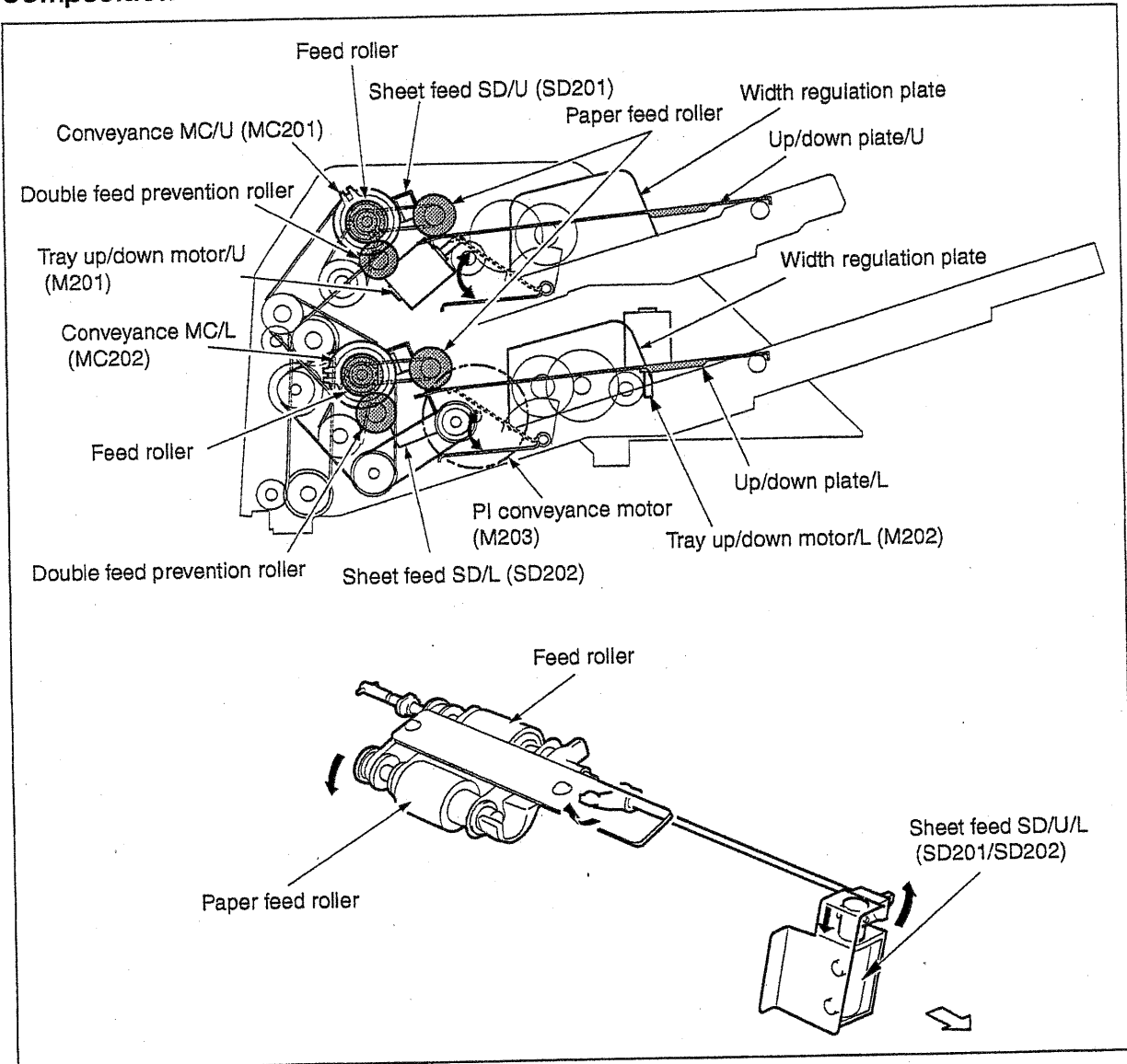
### 2. Signals

#### a. Input signals

- (1) 24V, 24V (FNS CB to PIDB)  
Input from a DC24V power source

# PAPER FEED UNIT

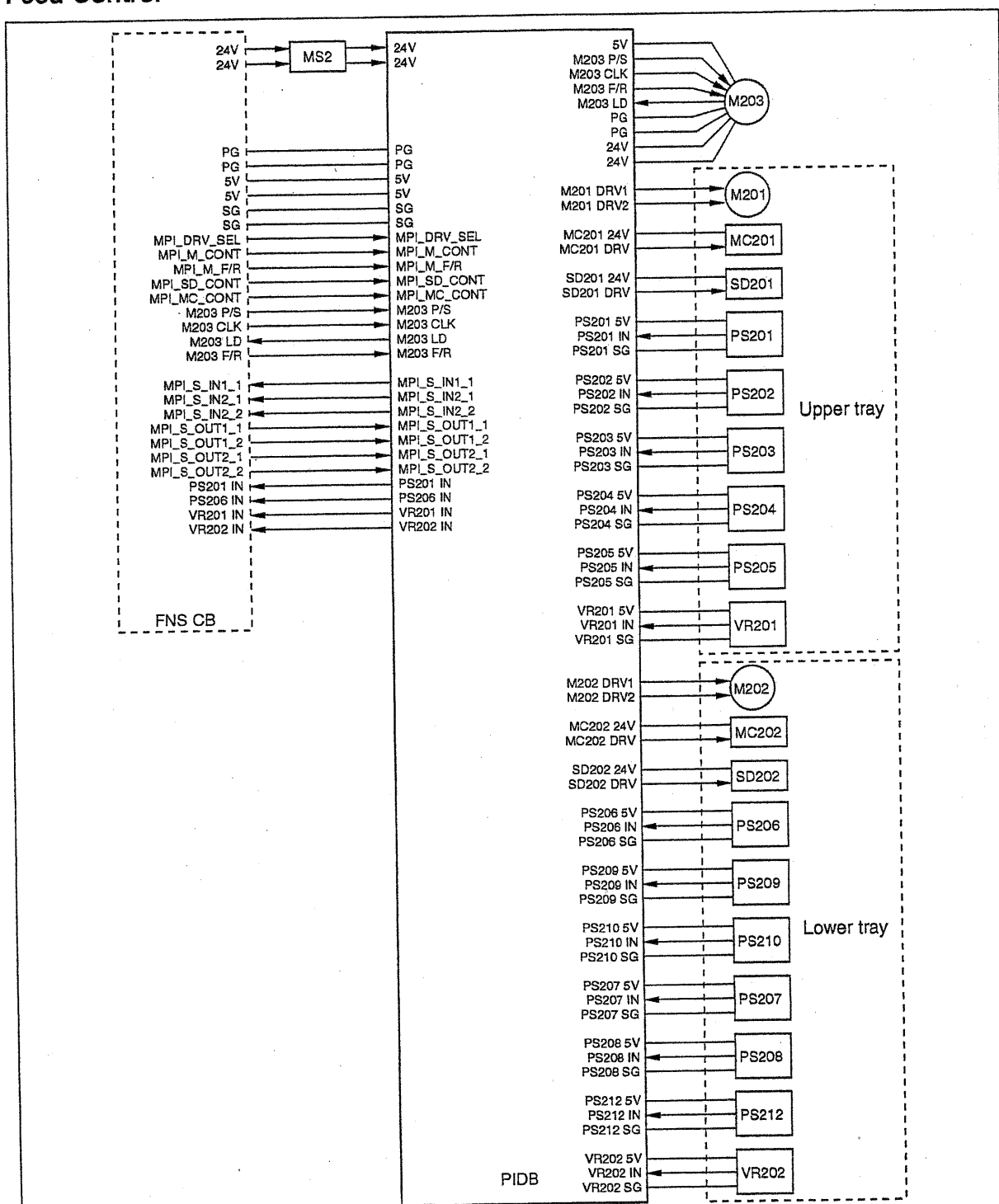
## [1] Composition



## [2] Mechanisms

Mechanism	Method
Pickup section	Upward feeding method, Oscillated feed roller, Paper feed roller
Sheet feed section	Reverse torque limiter method, Double feed prevention roller. Torque limiter

## [3] Feed Control



M201/M202 (tray up/down/U/L) raises the Up/down plate/U/L.

When SD201/SD202 (sheet feed/U/L) and MC201/MC202 (conveyance/U/L) comes ON, the drive of M203 (PI conveyance) is transmitted and the sheets are fed one by one by paper feed, feed, and double feed prevention rollers.

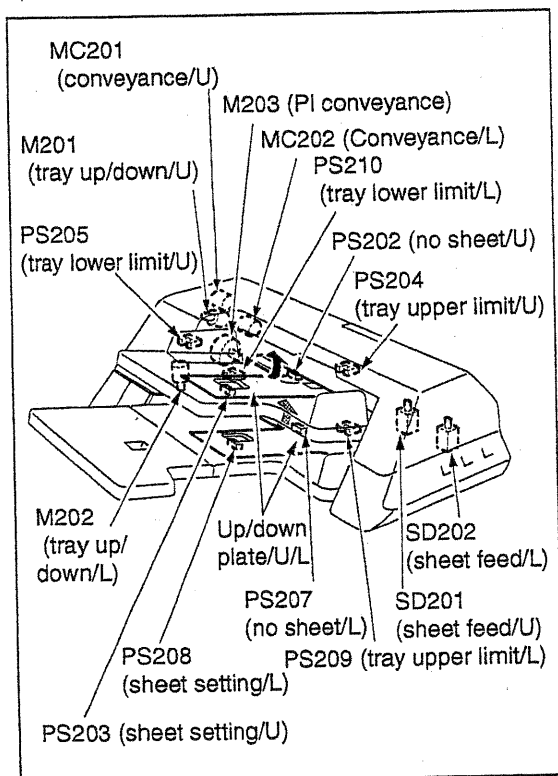
The related signals are:

PS201/PS206 (PI passage U/L), PS202/PS207 (No sheet/U/L), PS203/PS208 (Sheet setting/U/L), PS204/PS209 (Tray upper limit/U/L), PS205/PS210 (Tray lower limit/U/L), PS212 (Sheet size/L), and VR201/VR202 (Sheet size/U/L).

## 1. Operation

### a. Automatic sheet feeding (online)

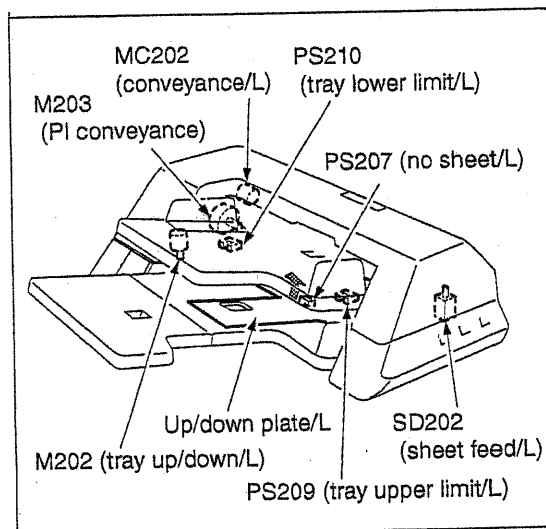
- (1) When the main body's START button turns ON, M201/M202 (tray up/down/U/L) are driven in forward, which lifts the Up/down plate/U/L until PS204/PS209 (tray upper limit/U/L) are activated.
- (2) Concurrently, while M203 (PI conveyance) is driven at low speed, SD201/SD202 (sheet feed/U/L) and MC201/MC202 (conveyance/U/L) come ON and sheets are fed into the FNS stacker.
- (3) When the last sheet on the Up/down plate/U/L is fed and PS203/PS208 (sheet setting/U/L) come OFF, the no-sheet-signal is sent to the main body, causing the first feed of main body to stop. After that, when PS202/PS207 (no sheet/U/L) come OFF, M201/M202 (tray up/down/U/L) are driven in reverse, which lowers the Up/down plate/U/L until PS205/PS210 (tray lower limit/U/L) are activated.



### b. Manual sheet feeding (offline)

Only the lower tray is allowed.

- (1) When the PI operation panel's START button turns ON, M202 (tray up/down/L) is driven in forward, which lifts the Up/down plate/L until PS209 (tray upper limit/L) is activated.
- (2) Concurrently, while M203 (PI conveyance) is driven at low speed, SD202 (sheet feed/L) and MC202 (conveyance/L) come ON and all sheets set in the Up/down plate/L fed into the FNS stacker.
- (3) The FNS carries out the required finishing processes (stapling, three-folding, etc.).
- (4) PS207 (no sheet/L) comes OFF, M202 (tray up/down/L) is driven in reverse, which lowers the sheet tray until PS210 (tray lower limit/L) is activated.



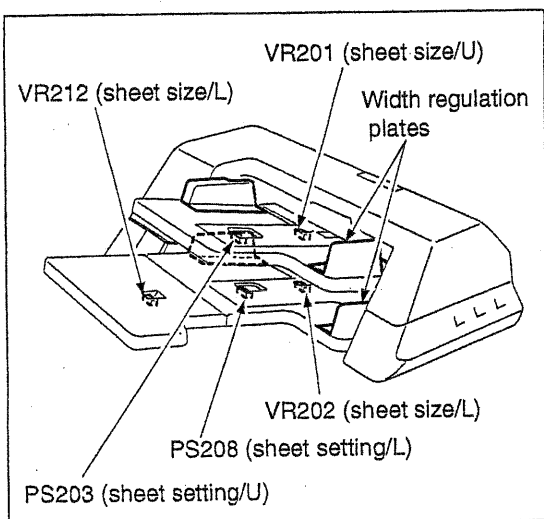
### c. Sheet conveyance

When a sheet fed from the PI paper feed unit at low speed turns ON, PS201/PS206 (PI passage/U/L), M203 (PI conveyance) changes its rotating speed to high-speed and conveys the sheet to FNS. When the sheet turns OFF, PS201/PS206, M203 changes its rotating speed to low-speed after the predetermined period and enter into feeding operation for the next sheet.

#### d. Detection of sheet size

VR201/VR202 (sheet size/U/L) detect the sheet width.

Sheet length is detected by the combination of PS203/PS208 (sheet setting/U/L) and PS212 (sheet size/L).



## 2. Signals

### a. Input signals

- (1) PS201 IN (PS201 to PIDB)  
Detection signal of sheet passage on upper tray  
L: Sheet passed  
H: Sheet not passed
- (2) PS202 IN (PS202 to PIDB)  
Detection signal of no sheet on upper tray  
L: Sheet detected  
H: Sheet not detected
- (3) PS203 IN (PS203 to PIDB)  
Detection signal of sheet setting on upper tray  
L: Sheet detected  
H: Sheet not detected
- (4) PS204 IN (PS204 to PIDB)  
Detection signal of upper limit of Up/down plate/U  
L: Positioned at upper limit  
H: Not positioned at upper limit
- (5) PS205 IN (PS205 to PIDB)  
Detection signal of lower limit of Up/down plate/U  
L: Positioned at lower limit  
H: Not positioned at lower limit
- (6) PS206 IN (PS206 to PIDB)  
Detection signal of sheet passage on lower tray  
L: Sheet passed  
H: Sheet not passed
- (7) PS207 IN (PS207 to PIDB)  
Detection signal of no sheet on lower tray  
L: Sheet detected  
H: Sheet not detected
- (8) PS208 IN (PS208 to PIDB)  
Detection signal of sheet setting on lower tray  
L: Sheet detected  
H: Sheet not detected
- (9) PS209 IN (PS209 to PIDB)  
Detection signal of upper limit of Up/down plate/L  
L: Positioned at upper limit  
H: Not positioned at upper limit
- (10) PS210 IN (PS210 to PIDB)  
Detection signal of lower limit of Up/down plate/L  
L: Positioned at lower limit  
H: Not positioned at lower limit
- (11) PS212 IN (PS212 to PIDB)  
Detection signal of sheet size on lower tray  
L: Sheet detected  
H: Sheet not detected
- (12) VR201 IN (VR201 to PIDB)  
Detection signal of sheet size on lower tray
- (13) VR202  
Detection signal of sheet size on lower tray

- (14) M203 LD (M203 to PIDB)  
Achieves specified speed of M203  
L: Achieves specified speed  
H: Not achieves specified speed
- (15) MPI\_DRV\_SEL IN (FNS CB to PIDB)  
Switch signal between M201/M202, MC201/  
MC202, and SD201/SD202
- (16) MPI\_M\_CONT (FNS CB to PIDB)  
Drive control signal of M201/M202  
L: ON  
H: OFF
- (17) MPI\_M\_F/R (FNS CB to PIDB)  
Rotating direction signal of M201/M202  
L: Tray down  
H: Tray up
- (18) MPI\_SD\_CONT (FNS CB to PIDB)  
Drive control signal of SD201/SD202  
L: ON  
H: OFF
- (19) MPI\_MC\_CONT (FNS CB to PIDB)  
Drive control signal of M201/M202  
L: ON  
H: OFF
- (20) MC203 P/S (FNS CB to PIDB)  
Drive control signal of M203  
L: ON  
H: OFF
- (21) M203 CLK (FNS CB to PIDB)  
Clock signal for controlling the rotating speed of  
M203
- (22) M203 F/R (FNS CB to PIDB)  
Rotating direction signal of M203  
L: CW  
H: CCW
- (23) MPI\_S\_OUT1\_1 (FNS CB to PIDB)  
Output selecting signal 1 of PS202 to 205
- (24) MPI\_S\_OUT1\_2 (FNS CB to PIDB)  
Output selecting signal 2 of PS202 to 205
- (25) MPI\_S\_OUT2\_1 (FNS CB to PIDB)  
Output selecting signal 1 of PS207 to 210,  
PS211
- (26) MPI\_S\_OUT2\_2 (FNS CB to PIDB)  
Output selecting signal 2 of PS207 to 210,  
PS211
- b. Output signals**
- (1) M201 DRV1, 2 (PIDB to M201)  
Signal for driving M201
- (2) MC201 DRV (PIDB to MC201)  
Signal for driving MC201  
L: ON  
H: OFF
- (3) SD201 DRV (PIDB to SD201)  
Signal for driving SD201  
L: ON  
H: OFF
- (4) M202 DRV1, 2 (PIDB to M202)  
Signal for driving M202
- (5) MC202 DRV (PIDB to MC202)  
Signal for driving MC202  
L: ON  
H: OFF
- (6) SD202 DRV (PIDB to SD202)  
Signal for driving SD202  
L: ON  
H: OFF
- (7) M203 P/S (PIDB to M203)  
Drive control signal of M203  
L: ON  
H: OFF
- (8) M203 CLK (PIDB to M203)  
Clock signal for controlling the rotating speed of  
M203
- (9) M203 F/R  
Rotating direction signal of M203  
L: CW  
H: CCW
- (10) M203 LD (PIDB to FNS CB)  
Achieves specified speed of M203  
L: Achieves specified speed  
H: Not achieves specified speed
- (11) MPI\_S\_IN1\_1 (PIDB to FNS CB)  
Detection signal from PS202 to PS205
- (12) MPI\_S\_IN2\_1 (PIDB to FNS CB)  
Detection signal from PS207, PS208, PS209 or  
PS210
- (13) MPI\_S\_IN2\_2 (PIDB to FNS CB)  
Detection signal from PS212
- (14) PS201 IN (PIDB to FNS CB)  
Detection signal of sheet passage on upper tray  
L: Sheet passed  
H: Sheet not passed

- (15) PS206 IN (PIDB to FNS CB)
  - Detection signal of sheet passage on lower tray
  - L: Sheet passed
  - H: Sheet not passed
- (16) VR201 IN (PIDB to FNS CB)
  - Detection signal of sheet size on upper tray
- (17) VR202 IN (PIDB to FNS CB)
  - Detection signal of sheet size on lower tray

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# **DISASSEMBLY/ASSEMBLY**

This section explains how to disassemble and reassemble the machine. When disassembling and reassembling the machine, follow the precautions given below.

1. Be sure the power cord has been unplugged from the wall outlet.
2. The disassembled parts must be reassembled following the disassembly procedure in reverse unless otherwise specified.
3. Care should be taken not to lose small parts. Care should also be taken not to install small parts in wrong places.
4. Do not operate the machine before installing all the disassembled parts completely.
5. Removal of some screws is prohibited in this section. Never loosen them.

# EXTERNAL SECTION

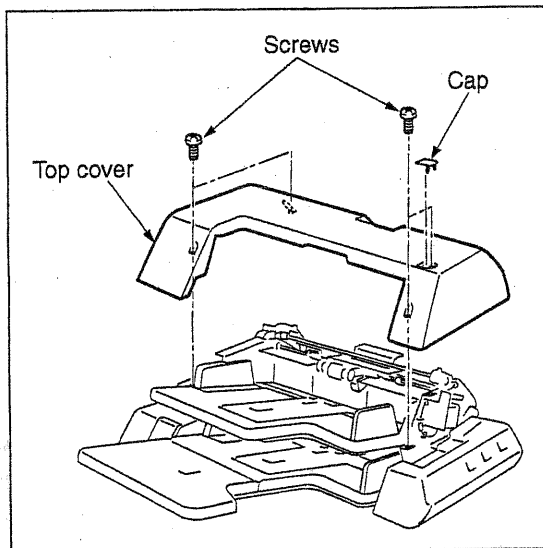
## [1] Removing / Re-installing the External covers

### ⚠ Caution:

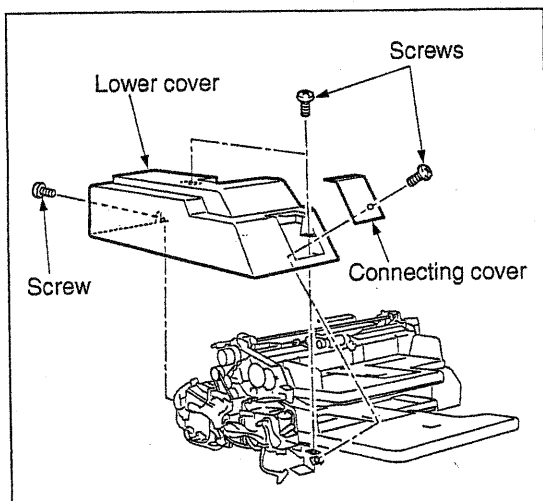
Make sure that the power cord of the main body is unplugged from the power outlet.

#### a. Procedure

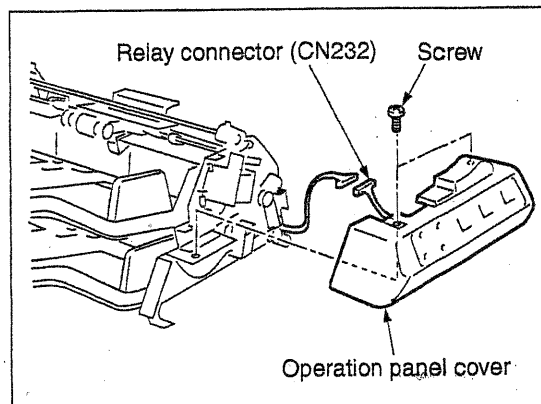
- (1) Remove cap on the top cover.
- (2) Remove four screws to detach the top cover.



- (3) Remove one screw to detach the connector cover.
- (4) Remove three screws to detach the lower cover.



- (5) Remove two screws, disconnect the relay connector (CN232), and detach the operation panel cover.



- (6) Reinstall the above parts following the removal steps in reverse.

# PAPER FEED UNIT

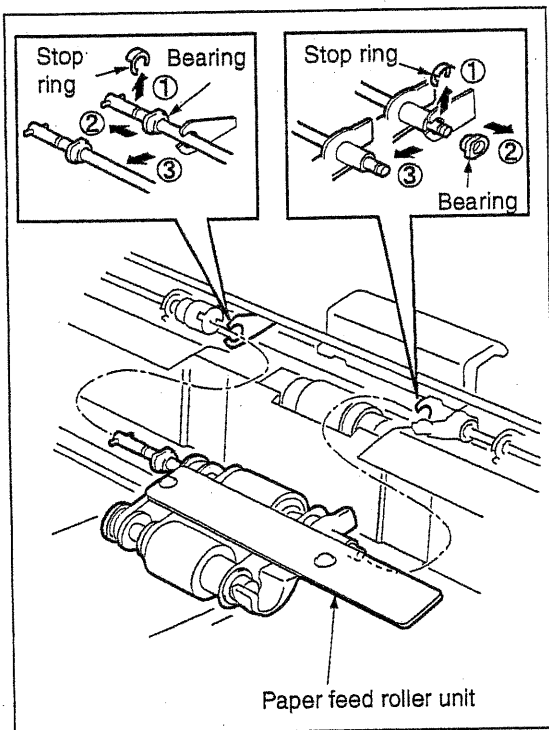
## [1] Replacing the Paper feed roller and Feed roller

### ⚠ Caution:

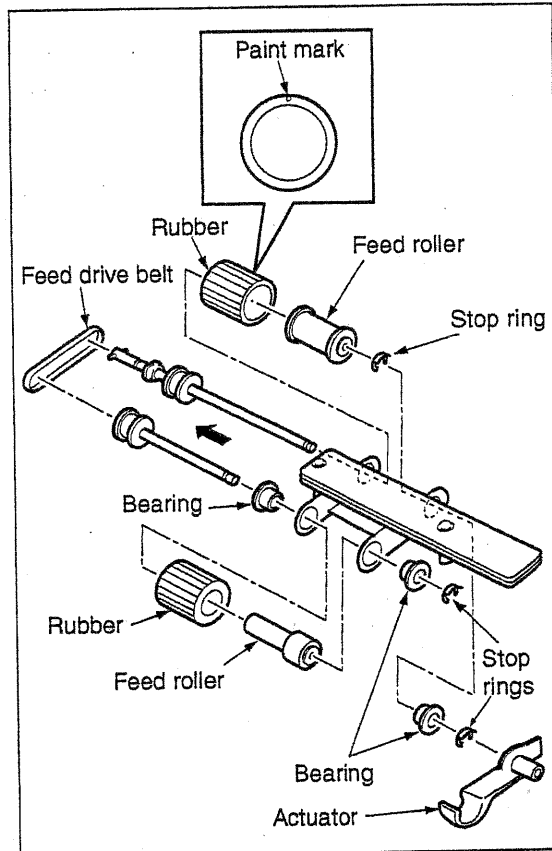
Make sure that the power cord of the main body is unplugged from the power outlet.

#### a. Procedure

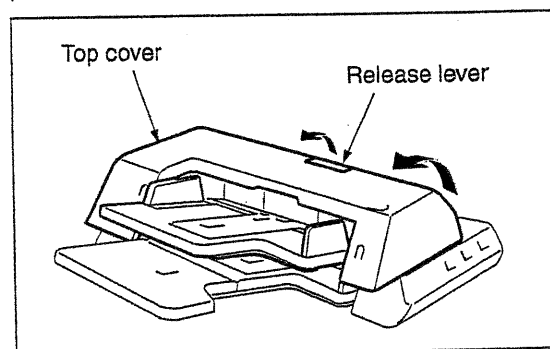
- (1) When replacing the paper feed roller and feed roller for the upper tray, detach the top cover.
- (2) Remove the two stop rings, then shift the left and right bearings outside, and remove the feed roller unit.



- (3) Remove actuator, three stop rings, three bearings of the feed roller unit, then slide the roller shaft in the direction of the arrow to remove each roller.



- (4) When replacing the paper feed roller and feed roller for the lower tray, open the upper tray and perform the steps 2 and 3.



- (5) Reinstall the above parts following the removal steps in reverse.

**Caution:** Ensure that the mounting direction of each roller and rubber is correct.

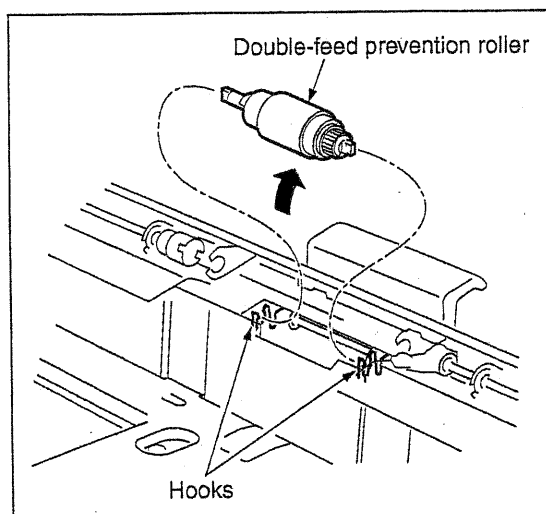
## [2] Replacing the Double feed prevent roller and Torque limiter

### ⚠ Caution:

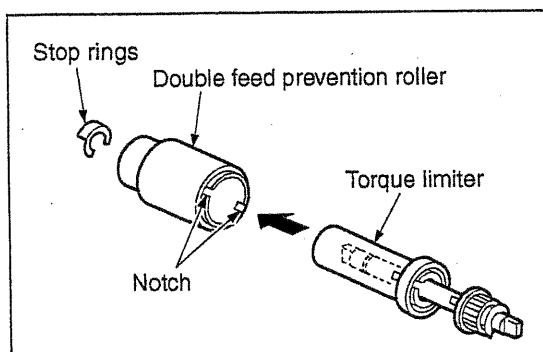
Make sure that the power cord of the main body is unplugged from the power outlet.

#### a. Procedure

- (1) When replacing the double feed prevention roller and the torque limiter for the upper tray, detach the top cover.
- (2) Detach the paper feed roller unit.
- (3) Release the hooks on both sides, remove the double feed prevention roller assembly by lifting up, then pull out the shaft, and remove the double-feed-prevention roller together with the feed-reverse gear.



- (4) Separate the double feed prevention roller and the torque limiter from the double feed prevention roller assembly.



- (5) When replacing the double feed prevention roller and the torque limiter for the lower tray, open the upper unit and perform the steps 2 and 3.
- (6) Reinstall the above parts following the removal steps in reverse.

**Caution:** Ensure that the mounting direction of each roller and rubber is correct.

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**Konica**

**PARTS CATALOG**

**Model  
PI-110**

NOVEMBER 2001

**KONICA BUSINESS TECHNOLOGIES, INC.**





This parts catalog includes illustrations and part numbers for all replacement parts and assemblies used in this model.

**Model-specific parts** are identified in the illustrations with reference numbers. Use the reference number to locate the corresponding part number on the facing page.

**Common hardware items**, such as screws, nuts, washers, and pins, are identified in the illustrations with reference letters. Use the reference letter to locate the corresponding part number on the hardware listing in the lower right hand corner of the facing page.

**If you know a part number**, but don't know where the part is used, use the numerical index to determine the page number and reference number for that part. Because some common parts are used in several places, there may be more than one entry. Refer to the illustrations to see where the part may be used.

**If you know a part's description**, but don't know where to look to find the part number, use the alphabetical index to determine likely page and reference numbers. Then look at the illustrations to determine that you have identified the correct part. Locate the part number using the listing on the opposite page.

**Retail pricing** that appears with the numerical index, while valid when this catalog was printed, is subject to change without notice. The prices are only suggested prices and are provided only for reference. Dealers may determine their own selling prices. For up-to-date pricing, refer to current Konica price lists or contact the Konica Parts Distribution Center.

### How to order parts

Use standard Konica parts ordering procedures to obtain these parts. For ordering options, contact Konica's Parts Distribution Center.

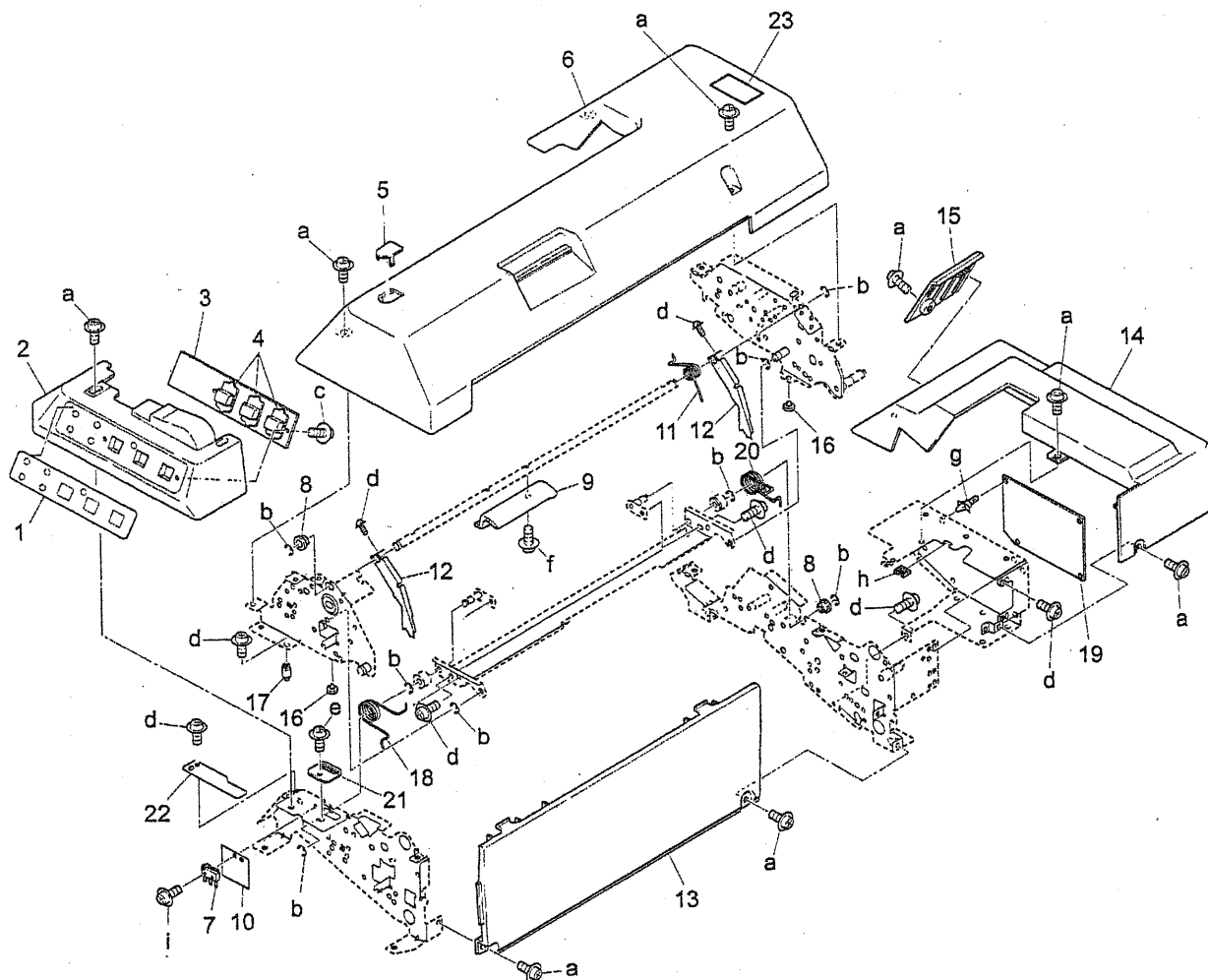
When ordering parts, be sure to specify part numbers exactly as listed in this catalog.

**NOTE:** Electrical parts may include previously used components.

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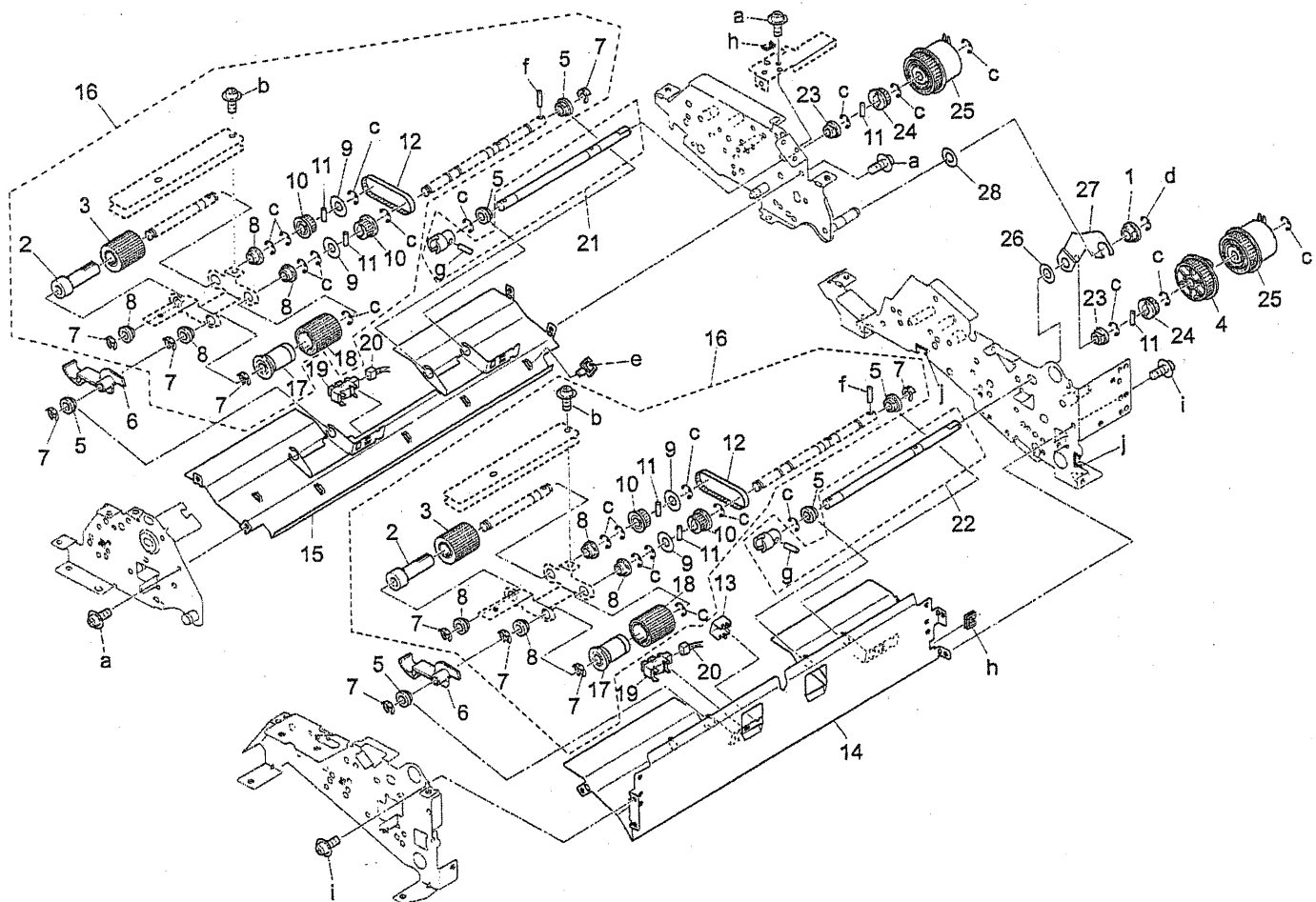
## Contents

How to use this catalog . . . . .	iii
Contents . . . . .	v
PI-110 . . . . .	2
Wiring . . . . .	16
Alphabetical index . . . . .	19
Numeric index . . . . .	21



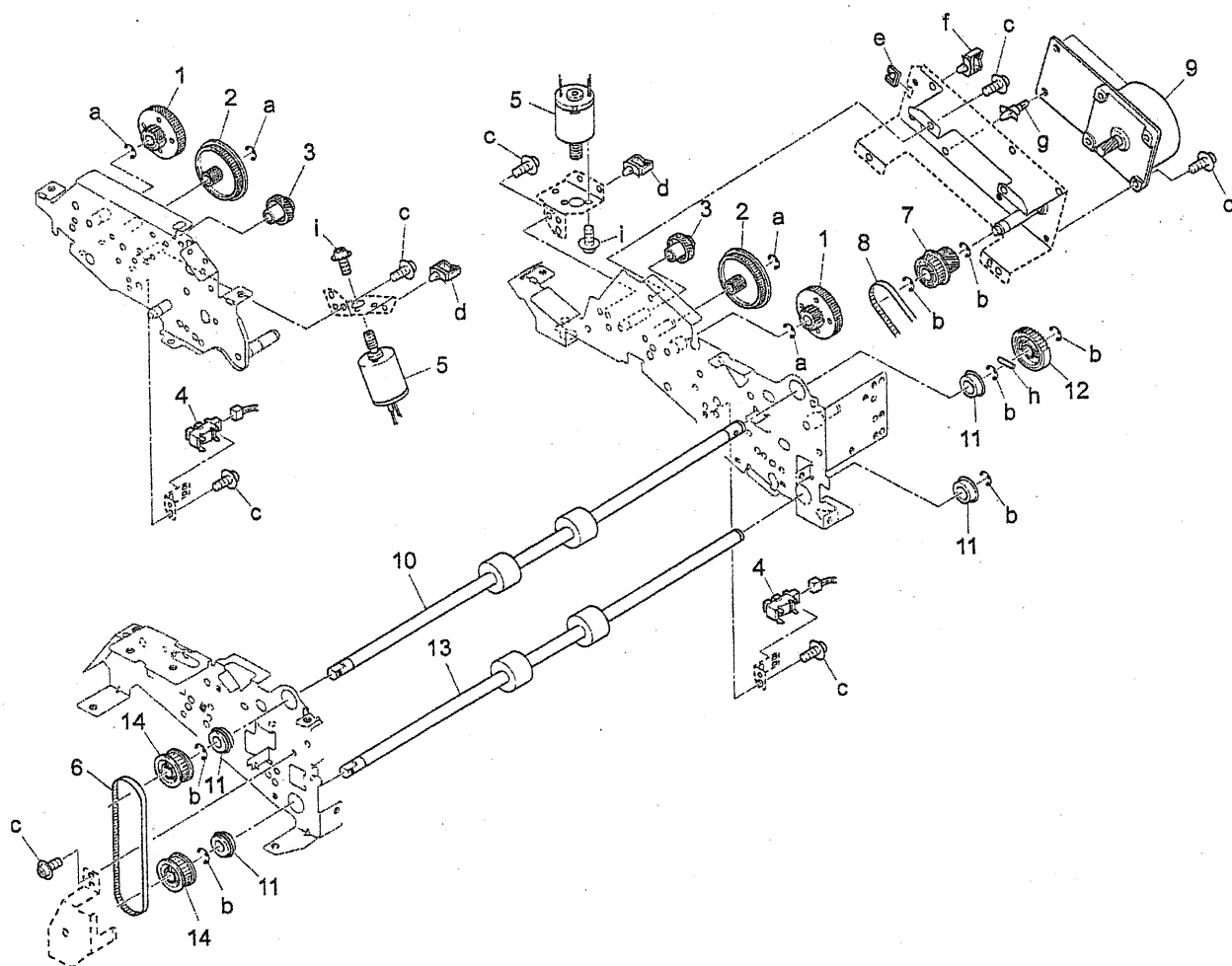
REF. NO.	PART NUMBER	DESCRIPTION
1	13QN70010	Operation Unit Sheet
2	13QN12030	Cover/Front
3	13QN-9320	Operation Board Assembly
4	554012080	Switch Button
5	13GQ12100	Screw Cover
6	13QN12020	Cover/Upper
7	12QR86010	Interlock Switch
8	12ER75530	Shaft Holder /A
9	13QN40560	Tray Release Handle
10	13QN40740	Insulating Sheet
11	13QN40590	Tray Locking Spring
12	13QN40580	Locking Claw
13	13QN12050	Cover/Right
14	13QN12010	Cover/Lower
15	13QN12040	Wiring Cover/1
16	048645260	Stopper Rubber
17	13QN40500	Tray Positioning Pin
18	13QN40670	Tray Lifting Spring/Front
19	13QN-9310	Drive Board Assembly
20	13QN40680	Tray Lifting Spring/Rear
21	13QN40760	Positioning Part
22	13QN40700	Switch Spring
23	13QN97030	Caution Label/A

HARDWARE	
REF. LTR.	PART NUMBER
a	00Z144062
b	00Z670406
c	00Z353081
d	00Z193061
e	00Z194061
f	00Z163081
g	00Z925103
h	00Z920013
i	00Z182101



REF. NO.	PART NUMBER	DESCRIPTION
1	26NA40820	Paper Feed Slide Holder
2	50BA40030	Feeding Roller/A
3	50BA-5740	Paper Feeding Roller Assembly/A
4	13QN76520	Drive Pulley/2 (Z=40)
5	12ER75530	Shaft Holder /A
6	13QN40050	Paper Detecting Actuator
7	56AA40490	Shaft Stopper/4
8	392015650	Slide Shaft Holder/C
9	12QV40740	Belt Regulating Part
10	059076510	Pulley/1
11	396078020	Pin (B)
12	25SA77561	Paper Driving Belt (L=126)
13	13QN40750	Cover
14	13QN40230	Paper Feed Guide Plate/A
15	13QN40250	Paper Feed Guide Plate/C
16	13QN-4040	Feeding Unit Assembly
17	13QN40060	Feeding Roller/B
18	50BA-5750	Feeding Roller Assembly/B
19	08AA85510	Photosensor
20	13QN91070	FNS Wiring/7
21	13QN-4110	Driving Connecting Shaft/A Assembly
22	13QN-4120	Driving Connecting Shaft/B Assembly
23	192141710	Paper Lift-up Lever Shaft Holder (B)
24	129X76620	Conveyance Pulley/B (Z=16)
25	13QN82010	Paper Feed Clutch
26	12AR15190	Collar/B
27	13QN40440	Connecting Arm/C
28	13QN40790	Spacer

HARDWARE	
REF. LTR.	PART NUMBER
a	00Z193061
b	00Z193081
c	00Z670406
d	00Z670606
e	00Z920062
f	00Z712126
g	00Z713126
h	00Z920013
i	00Z193041
j	00Z921370

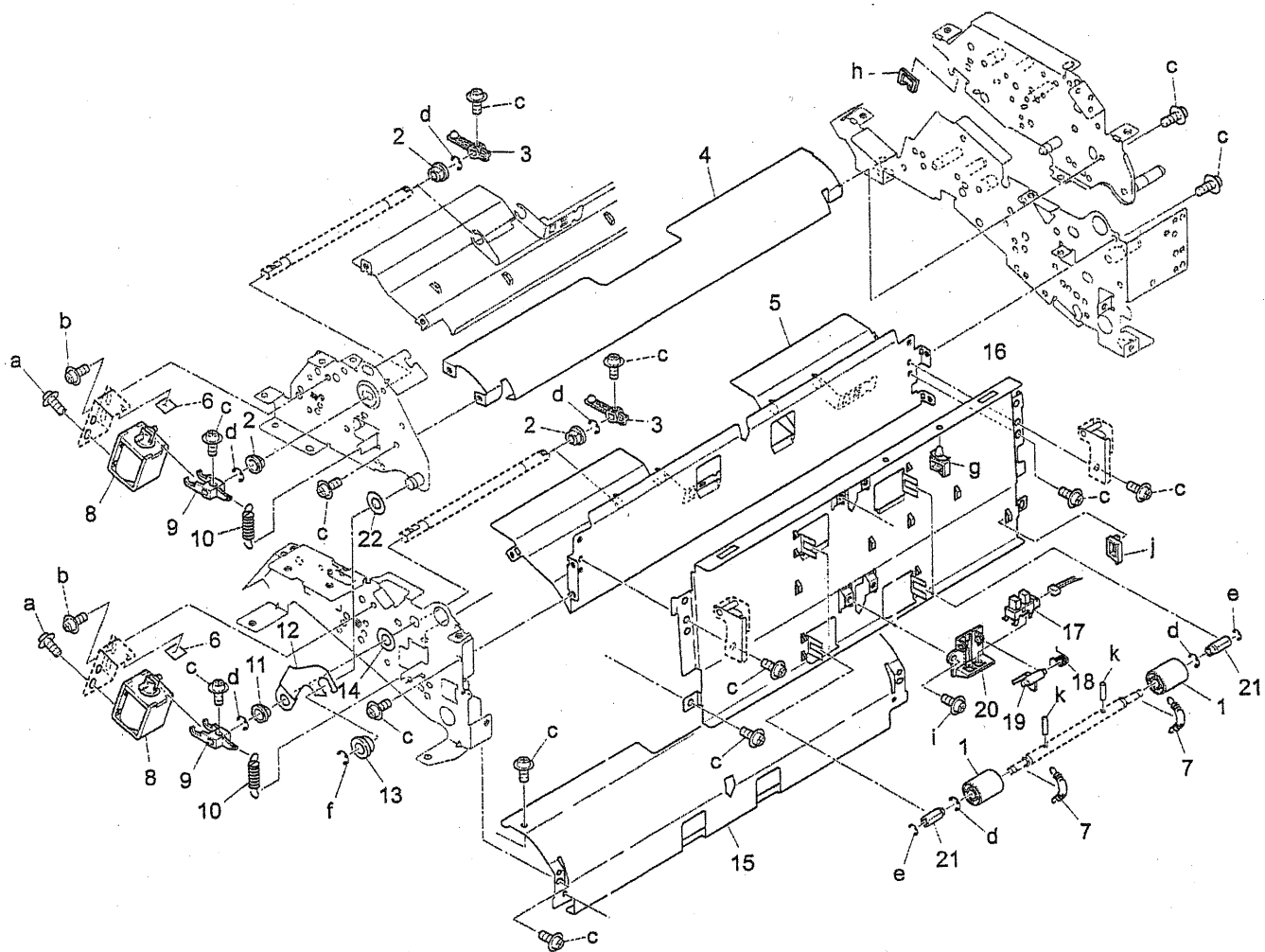




REF. NO.	PART NUMBER	DESCRIPTION
1	540077362	Paper Lift-up Gear/B
2	540077311	Paper Lift-up Gear/C
3	540077321	Paper Lift-up Gear/D
4	08AA85510	Photosensor
5	13FG-4150	Paper Feed Motor Assembly
6	13QN77550	Drive Belt/E (L=258)
7	13QN77060	Idling Gear/B (Z=24/31)
8	13QN77510	Drive Belt/A (L=189)
9	56AA80070	DC Brushless Motor/30
10	13QN40270	Paper Feed Driving Shaft/Upper
11	540076050	Driving Shaft Holder
12	25SA77060	Screw Drive Gear (4) (Z=30)
13	13QN40280	Paper Feed Driving Shaft/Lower
14	13QN76530	Drive Pulley/3 (Z=24)

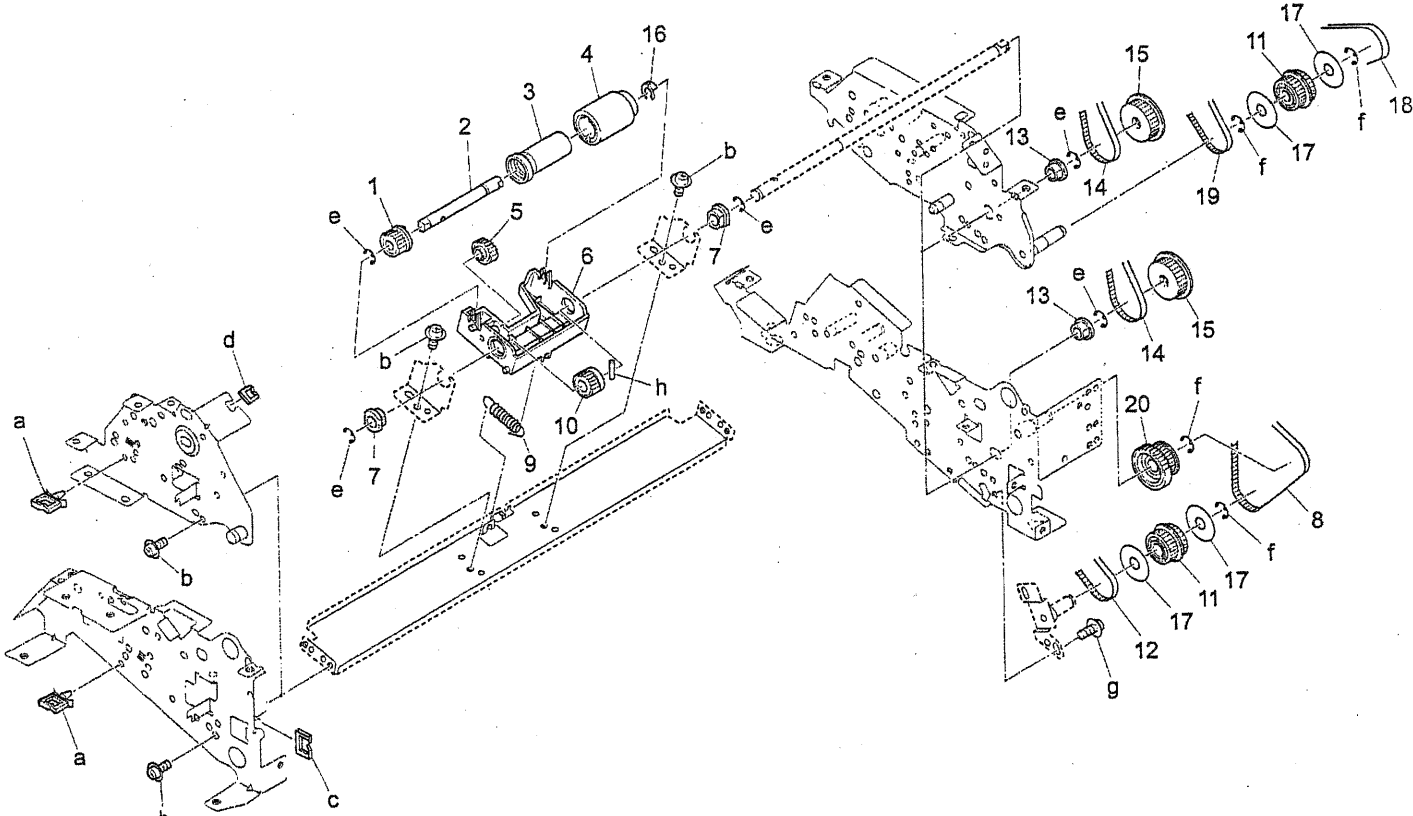
  

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b	00Z670606
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e	00Z920013
f	00Z921303
g	00Z925102
h	00Z749036
i	00Z182641



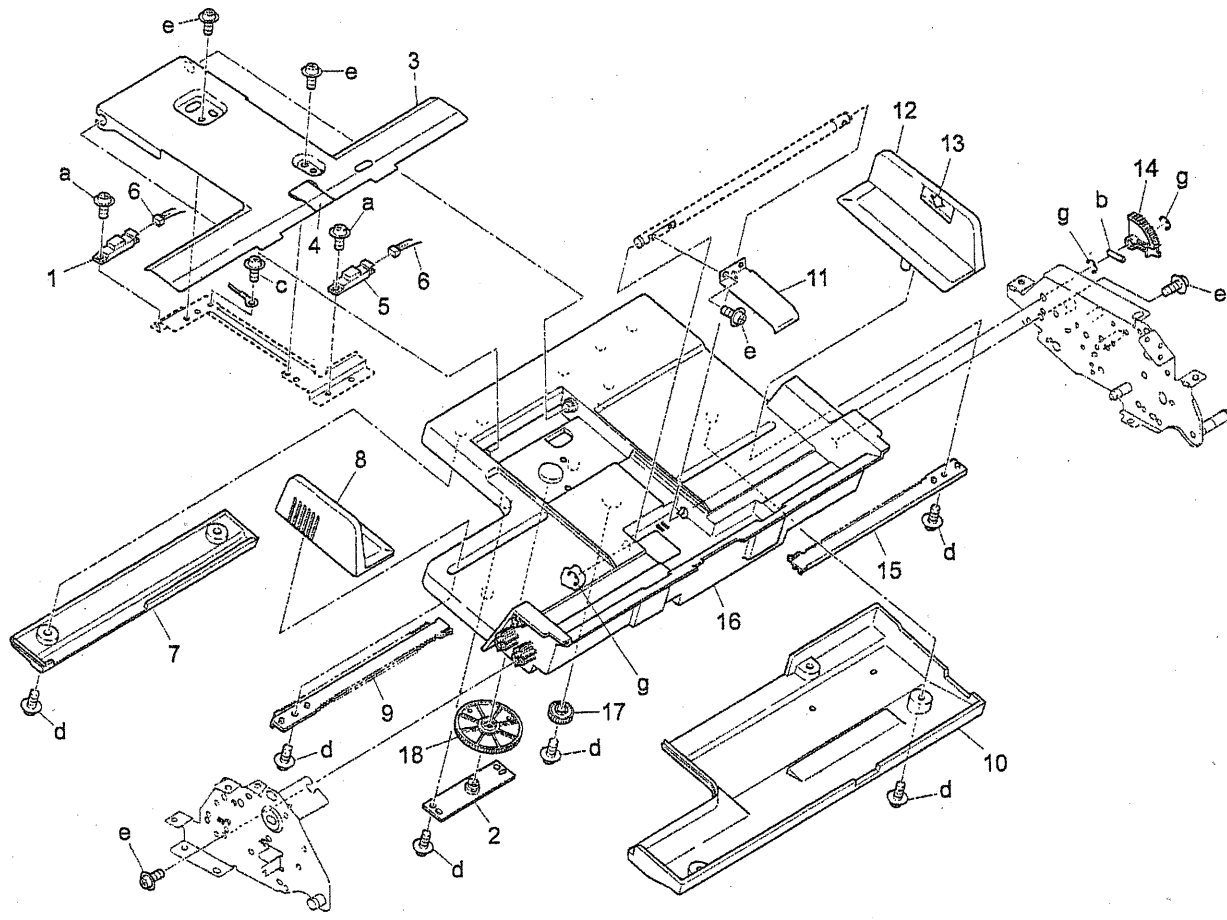
REF. NO.	PART NUMBER	DESCRIPTION
1	13QN40530	Conveyance Driven Roller
2	12ER75530	Shaft Holder /A
3	13QN40070	Paper Feed Rocking Block/A
4	13QN40260	Paper Feed Guide Plate/D
5	13QN40230	Paper Feed Guide Plate/A
6	12ER40350	Sticking Part
7	13QN40410	Conveyance Pressing Spring
8	12QR-2630	FNS Solenoid Assembly
9	13QN40080	Paper Feed Rocking Block/B
10	13QN40110	Solenoid Spring
11	192141710	Paper Lift-up Lever Shaft Holder (B)
12	13QN40430	Connecting Arm/B
13	26NA40820	Paper Feed Slide Holder
14	12AR15190	Collar/B
15	13QN40240	Paper Feed Guide Plate/B
16	13QN40370	Conveyance Guide Plate/Lower
17	08AA85510	Photosensor
18	13QE48080	Spring/1
19	13QE48070	Actuator/1
20	13QE48300	Block
21	129U75510	Tension Shaft Holder
22	13QN40790	Spacer

HARDWARE	
REF. LTR.	PART NUMBER
a	00Z163061
b	00Z163081
c	00Z193061
d	00Z670406
e	00Z670306
f	00Z670606
g	00Z921931
h	00Z921370
i	00Z193041
j	00Z920015
k	00Z749036



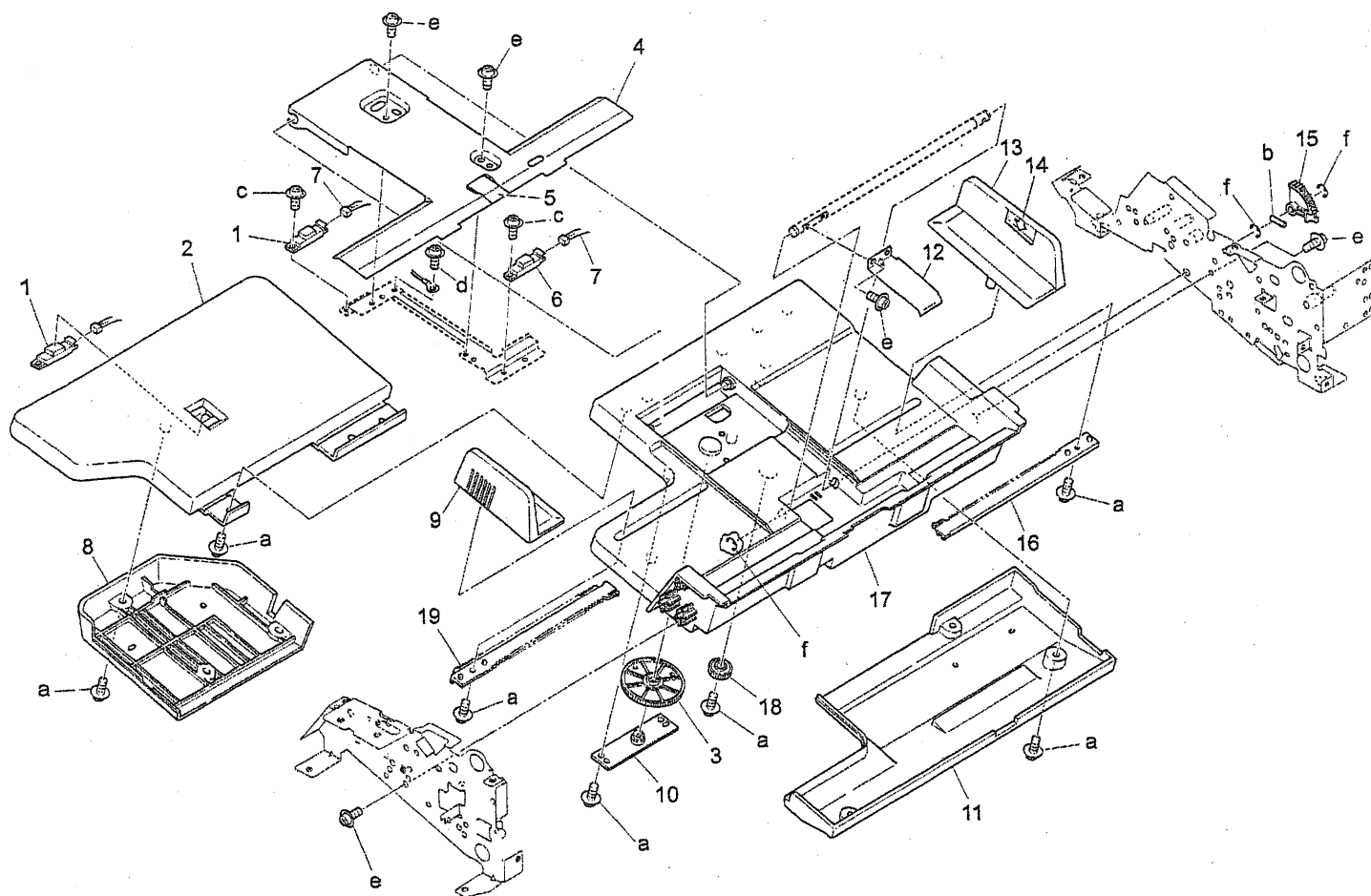
REF. NO.	PART NUMBER	DESCRIPTION
1	13QN77010	Paper Feed Reversing Gear/A (Z=14)
2	13QN40150	Multi-Feed Preventing Shaft
3	13QN40730	Torque Limiter
4	13QN-4430	Reversing Rubber Assembly
5	13QN77020	Idling Gear/A (Z=15)
6	13QN40130	Multi-Feed Preventing Plate
7	13QN40770	Shaft Holder /B
8	13QN77550	Drive Belt/E (L=258)
9	13QN40550	Multi-Feed Preventing Spring
10	13QN77030	Paper Feed Reversing Gear/B (Z=15)
11	13QN76550	Idling Pulley/3 (Z=26)
12	13QN77510	Drive Belt/A (L=189)
13	12ER75530	Shaft Holder /A
14	13QN77530	Drive Belt/C (L=150)
15	13QN76510	Drive Pulley/1 (Z=30)
16	56AA40490	Shaft Stopper/4
17	25AA51160	Belt Holder/A
18	129R77920	Drive Belt/B
19	13QN77560	Driving Belt/F (L=246)
20	12QR76571	Driving Pulley/C (Z=30/24)

HARDWARE	
REF. LTR.	PART NUMBER
a	00Z921931
b	00Z193061
c	00Z921370
d	00Z920013
e	00Z670406
f	00Z670606
g	00Z163081
h	00Z749026



REF. NO.	PART NUMBER	DESCRIPTION
1	13QA85520	Sensor/2
2	13FG-9330	Size Detecting Board Assembly
3	13QN42030	Up/Down Tray
4	13QN42120	Multi-Feed Preventing Sheet
5	13QA85510	Sensor/1
6	13QN91040	FNS Wiring/4
7	13QN42190	Paper Feed Cover/3
8	13QN42200	Paper Regulating Plate/Front
9	13QN42100	Rack/A
10	13QN42060	Paper Feed Cover/1
11	13QN42080	Lever
12	13QN42050	Paper Regulating Plate/Rear
13	13QN97040	Original Regulating Label/A
14	13QN77040	Up/Down Gear (Z=12)
15	13QN42110	Rack/B
16	13QN42010	Paper Feed Tray/1
17	396077060	Paper Feed Idler Gear/A
18	55GA77190	Pinion

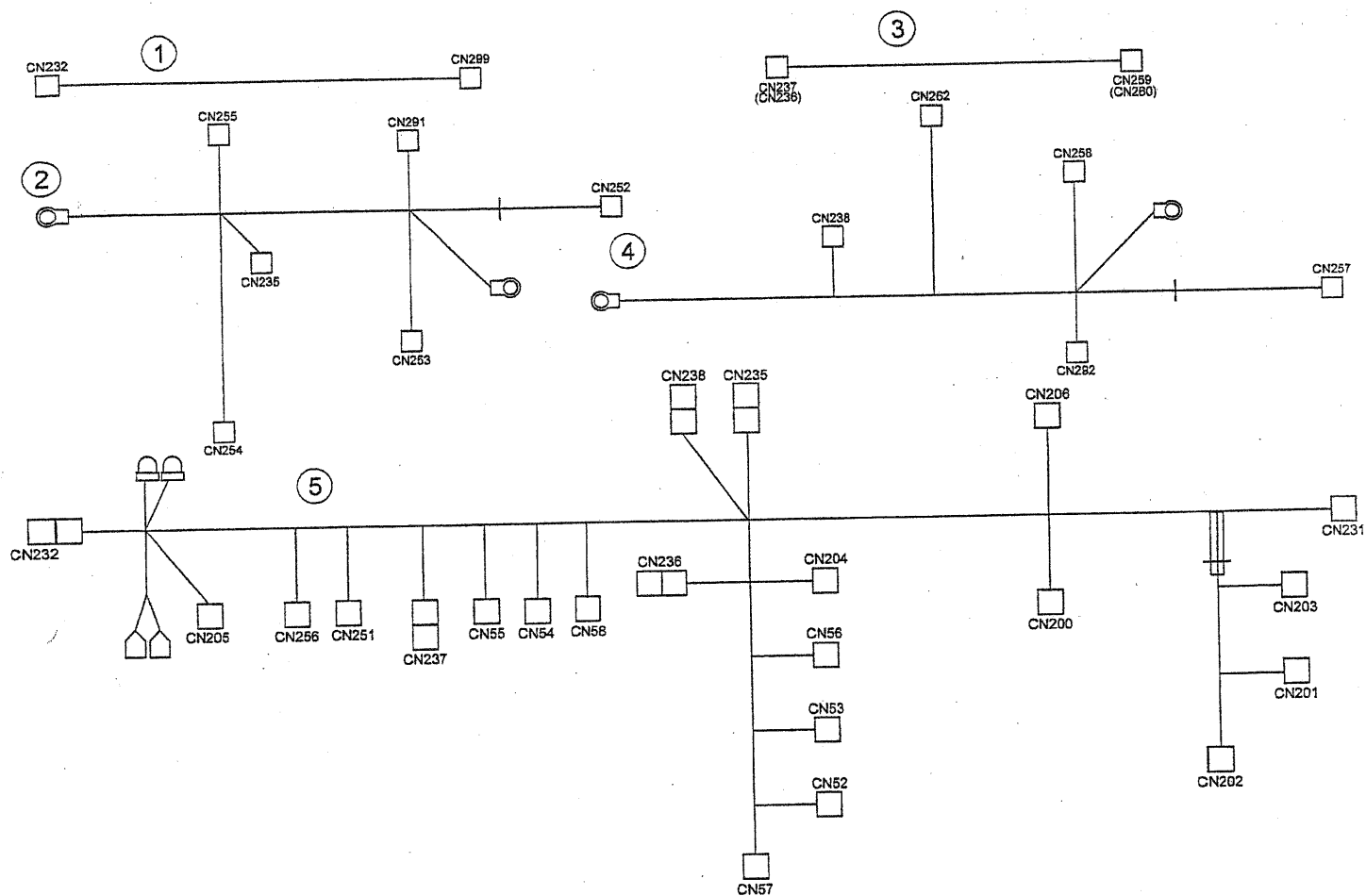
HARDWARE	
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a	00Z153061
b	00Z183061
c	00Z163061
d	00Z353081
e	00Z193061
f	00Z749046
g	00Z670406





REF. NO.	PART NUMBER	DESCRIPTION
1	13QA85520	Sensor/2
2	13QN42020	Paper Feed Tray/2
3	55GA77190	Pinion
4	13QN42030	Up/Down Tray
5	13QN42120	Multi-Feed Preventing Sheet
6	13QA85510	Sensor/1
7	13QN91060	FNS Wiring/6
8	13QN42070	Paper Feed Cover/2
9	13QN42200	Paper Regulating Plate/Front
10	13FG-9330	Size Detecting Board Assembly
11	13QN42060	Paper Feed Cover/1
12	13QN42080	Lever
13	13QN42050	Paper Regulating Plate/Rear
14	13QN97040	Original Regulating Label/A
15	13QN77040	Up/Down Gear (Z=12)
16	13QN42110	Rack/B
17	13QN42010	Paper Feed Tray/1
18	396077060	Paper Feed Idler Gear/A
19	13QN42100	Rack/A

HARDWARE	
REF. LTR.	PART NUMBER
a	00Z353081
b	00Z749046
c	00Z153061
d	00Z163061
e	00Z193061
f	00Z670406



REF. NO.	PART NUMBER	DESCRIPTION
1	13QN91090	FNS Wiring/9
2	13QN91040	FNS Wiring/4
3	13QN91070	FNS Wiring/7
4	13QN91060	FNS Wiring/6
5	13QN91100	FNS Wiring/10

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# Alphabetical Index

PART DESCRIPTION	PAGE NO.	REF. NO.	PART DESCRIPTION	PAGE NO.	REF. NO.	PART DESCRIPTION	PAGE NO.	REF. NO.
<b>A</b>			Feeding Roller Assembly/B	5	18	Paper Feed Rocking Block/A	9	3
Actuator/1	9	19	Feeding Roller/A	5	2	Paper Feed Rocking Block/B	9	9
			Feeding Roller/B	5	17	Paper Feed Slide Holder	5	1
			Feeding Unit Assembly	5	16	Paper Feed Slide Holder	9	13
						Paper Feed Tray/1	13	16
<b>B</b>						Paper Feed Tray/1	15	17
Belt Holder/A	11	17	<b>I</b>			Paper Feed Tray/2	15	2
Belt Regulating Part	5	9	Idling Gear/A (Z=15)	11	5	Paper Feeding Roller		
Block	9	20	Idling Gear/B (Z=24/31)	7	7	Assembly/A	5	3
			Idling Pulley/3 (Z=26)	11	11	Paper Lift-up Gear/B	7	1
			Insulating Sheet	3	10	Paper Lift-up Gear/C	7	2
			Interlock Switch	3	7	Paper Lift-up Gear/D	7	3
<b>C</b>						Paper Lift-up Lever Shaft		
Caution Label/A	3	23	<b>L</b>			Holder (B)	5	23
Collar/B	5	26	Lever	13	11	Paper Lift-up Lever Shaft		
Collar/B	9	14	Lever	15	12	Holder (B)	9	11
Connecting Arm/B	9	12	Locking Claw	3	12	Paper Regulating Plate/Front	13	8
Connecting Arm/C	5	27				Paper Regulating Plate/Front	15	9
Conveyance Driven Roller	9	1				Paper Regulating Plate/Rear	13	12
Conveyance Guide						Paper Regulating Plate/Rear	15	13
Plate/Lower	9	16	<b>M</b>			Photosensor	5	19
Conveyance Pressing Spring	9	7	Multi-Feed Preventing Plate	11	6	Photosensor	7	4
Conveyance Pulley/B (Z=16)	5	24	Multi-Feed Preventing Shaft	11	2	Photosensor	9	17
Cover	5	13	Multi-Feed Preventing Sheet	13	4	Pin (B)	5	11
Cover/Front	3	2	Multi-Feed Preventing Sheet	15	5	Pinion	13	18
Cover/Lower	3	14	Multi-Feed Preventing Spring	11	9	Pinion	15	3
Cover/Right	3	13				Positioning Part	3	21
Cover/Upper	3	6				Pulley/1	5	10
<b>D</b>			<b>O</b>			<b>R</b>		
DC Brushless Motor/30	7	9	Operation Board Assembly	3	3	Rack/A	13	9
Drive Belt/A (L=189)	7	8	Operation Unit Sheet	3	1	Rack/A	15	19
Drive Belt/A (L=189)	11	12	Original Regulating Label/A	13	13	Rack/B	13	15
Drive Belt/B	11	18	Original Regulating Label/A	15	14	Rack/B	15	16
Drive Belt/C (L=150)	11	14				Reversing Rubber Assembly	11	4
Drive Belt/E (L=258)	7	6						
Drive Belt/E (L=258)	11	8	<b>P</b>			<b>S</b>		
Drive Board Assembly	3	19	Paper Detecting Actuator	5	6	Screw Cover	3	5
Drive Pulley/1 (Z=30)	11	15	Paper Driving Belt (L=126)	5	12	Screw Drive Gear (4) (Z=30)	7	12
Drive Pulley/2 (Z=40)	5	4	Paper Feed Clutch	5	25	Sensor/1	13	5
Drive Pulley/3 (Z=24)	7	14	Paper Feed Cover/1	13	10	Sensor/1	15	6
Driving Belt/F (L=246)	11	19	Paper Feed Cover/1	15	11	Sensor/2	13	1
Driving Connecting Shaft/A			Paper Feed Cover/2	15	8	Sensor/2	15	1
Assembly	5	21	Paper Feed Cover/3	13	7	Shaft Holder /A	3	8
Driving Connecting Shaft/B			Paper Feed Driving			Shaft Holder /A	5	5
Assembly	5	22	Shaft/Lower	7	13	Shaft Holder /A	9	2
Driving Pulley/C (Z=30/24)	11	20	Paper Feed Driving			Shaft Holder /A	11	13
Driving Shaft Holder	7	11	Shaft/Upper	7	10	Shaft Holder /B	11	7
			Paper Feed Guide Plate/A	5	14	Shaft Stopper/4	5	7
			Paper Feed Guide Plate/A	9	5	Shaft Stopper/4	11	16
			Paper Feed Guide Plate/B	9	15	Size Detecting Board		
<b>F</b>			Paper Feed Guide Plate/C	5	15	Assembly	13	2
FNS Solenoid Assembly	9	8	Paper Feed Guide Plate/D	9	4	Size Detecting Board		
FNS Wiring/10	17	5	Paper Feed Idler Gear/A	13	17	Assembly	15	10
FNS Wiring/4	13	6	Paper Feed Idler Gear/A	15	18	Slide Shaft Holder/C	5	8
FNS Wiring/4	17	2	Paper Feed Motor Assembly	7	5	Solenoid Spring	9	10
FNS Wiring/6	15	7	Paper Feed Reversing			Spacer	5	28
FNS Wiring/6	17	4	Gear/A (Z=14)	11	1	Spacer	9	22
FNS Wiring/7	5	20	Paper Feed Reversing			Spring/1	9	18
FNS Wiring/7	17	3	Gear/B (Z=15)	11	10	Sticking Part	9	6
FNS Wiring/9	17	1						

PART DESCRIPTION	PAGE NO.	REF. NO.	PART DESCRIPTION	PAGE NO.	REF. NO.	PART DESCRIPTION	PAGE NO.	REF. NO.
Stopper Rubber . . . . .	3	16	Tray Lifting Spring/Rear . . .	3	20	Up/Down Tray . . . . .	13	3
Switch Button . . . . .	3	4	Tray Locking Spring . . . . .	3	11	Up/Down Tray . . . . .	15	4
Switch Spring . . . . .	3	22	Tray Positioning Pin . . . . .	3	17			
			Tray Release Handle . . . . .	3	9			
<b>T</b>			<b>U</b>			<b>W</b>		
Tension Shaft Holder . . . . .	9	21				Wiring Cover/1 . . . . .	3	15
Torque Limiter . . . . .	11	3	Up/Down Gear (Z=12) . . .	13	14			
Tray Lifting Spring/Front . .	3	18	Up/Down Gear (Z=12) . . .	15	15			

# Numerical index

PART NUMBER	PAGE NO.	REF. NO.
048645260 . . . . .	3	16
059076510 . . . . .	5	10
08AA85510 . . . . .	5	19
08AA85510 . . . . .	7	4
08AA85510 . . . . .	9	17
129R77920 . . . . .	11	18
129U75510 . . . . .	9	21
129X76620 . . . . .	5	24
12AR15190 . . . . .	5	26
12AR15190 . . . . .	9	14
12ER40350 . . . . .	9	6
12ER75530 . . . . .	3	8
12ER75530 . . . . .	5	5
12ER75530 . . . . .	9	2
12ER75530 . . . . .	11	13
12QR-2630 . . . . .	9	8
12QR76571 . . . . .	11	20
12QR86010 . . . . .	3	7
12QV40740 . . . . .	5	9
13FG-4150 . . . . .	7	5
13FG-9330 . . . . .	13	2
13FG-9330 . . . . .	15	10
13GQ12100 . . . . .	3	5
13QA85510 . . . . .	13	5
13QA85510 . . . . .	15	6
13QA85520 . . . . .	13	1
13QA85520 . . . . .	15	1
13QE48070 . . . . .	9	19
13QE48080 . . . . .	9	18
13QE48300 . . . . .	9	20
13QN-4040 . . . . .	5	16
13QN-4110 . . . . .	5	21
13QN-4120 . . . . .	5	22
13QN-4430 . . . . .	11	4
13QN-9310 . . . . .	3	19
13QN-9320 . . . . .	3	3
13QN12010 . . . . .	3	14
13QN12020 . . . . .	3	6
13QN12030 . . . . .	3	2
13QN12040 . . . . .	3	15
13QN12050 . . . . .	3	13
13QN40050 . . . . .	5	6
13QN40060 . . . . .	5	17
13QN40070 . . . . .	9	3
13QN40080 . . . . .	9	9
13QN40110 . . . . .	9	10
13QN40130 . . . . .	11	6
13QN40150 . . . . .	11	2
13QN40230 . . . . .	5	14
13QN40230 . . . . .	9	5

PART NUMBER	PAGE NO.	REF. NO.
13QN40240 . . . . .	9	15
13QN40250 . . . . .	5	15
13QN40260 . . . . .	9	4
13QN40270 . . . . .	7	10
13QN40280 . . . . .	7	13
13QN40370 . . . . .	9	16
13QN40410 . . . . .	9	7
13QN40430 . . . . .	9	12
13QN40440 . . . . .	5	27
13QN40500 . . . . .	3	17
13QN40530 . . . . .	9	1
13QN40550 . . . . .	11	9
13QN40560 . . . . .	3	9
13QN40580 . . . . .	3	12
13QN40590 . . . . .	3	11
13QN40670 . . . . .	3	18
13QN40680 . . . . .	3	20
13QN40700 . . . . .	3	22
13QN40730 . . . . .	11	3
13QN40740 . . . . .	3	10
13QN40750 . . . . .	5	13
13QN40760 . . . . .	3	21
13QN40770 . . . . .	11	7
13QN40790 . . . . .	5	28
13QN40790 . . . . .	9	22
13QN42010 . . . . .	13	16
13QN42010 . . . . .	15	17
13QN42020 . . . . .	15	2
13QN42030 . . . . .	13	3
13QN42030 . . . . .	15	4
13QN42050 . . . . .	13	12
13QN42050 . . . . .	15	13
13QN42060 . . . . .	13	10
13QN42060 . . . . .	15	11
13QN42070 . . . . .	15	8
13QN42080 . . . . .	13	11
13QN42080 . . . . .	15	12
13QN42100 . . . . .	13	9
13QN42100 . . . . .	15	19
13QN42110 . . . . .	13	15
13QN42110 . . . . .	15	16
13QN42120 . . . . .	13	4
13QN42120 . . . . .	15	5
13QN42190 . . . . .	13	7
13QN42200 . . . . .	13	8
13QN42200 . . . . .	15	9
13QN70010 . . . . .	3	1
13QN76510 . . . . .	11	15
13QN76520 . . . . .	5	4
13QN76530 . . . . .	7	14

PART NUMBER	PAGE NO.	REF. NO.
13QN76550 . . . . .	11	11
13QN77010 . . . . .	11	1
13QN77020 . . . . .	11	5
13QN77030 . . . . .	11	10
13QN77040 . . . . .	13	14
13QN77040 . . . . .	15	15
13QN77060 . . . . .	7	7
13QN77510 . . . . .	7	8
13QN77510 . . . . .	11	12
13QN77530 . . . . .	11	14
13QN77550 . . . . .	7	6
13QN77550 . . . . .	11	8
13QN77560 . . . . .	11	19
13QN82010 . . . . .	5	25
13QN91040 . . . . .	13	6
13QN91040 . . . . .	17	2
13QN91060 . . . . .	15	7
13QN91060 . . . . .	17	4
13QN91070 . . . . .	5	20
13QN91070 . . . . .	17	3
13QN91090 . . . . .	17	1
13QN91100 . . . . .	17	5
13QN97030 . . . . .	3	23
13QN97040 . . . . .	13	13
13QN97040 . . . . .	15	14
192141710 . . . . .	5	23
192141710 . . . . .	9	11
25AA51160 . . . . .	11	17
25SA77060 . . . . .	7	12
25SA77561 . . . . .	5	12
26NA40820 . . . . .	5	1
26NA40820 . . . . .	9	13
392015650 . . . . .	5	8
396077060 . . . . .	13	17
396077060 . . . . .	15	18
396078020 . . . . .	5	11
50BA-5740 . . . . .	5	3
50BA-5750 . . . . .	5	18
50BA40030 . . . . .	5	2
540076050 . . . . .	7	11
540077311 . . . . .	7	2
540077321 . . . . .	7	3
540077362 . . . . .	7	1
554012080 . . . . .	3	4
55GA77190 . . . . .	13	18
55GA77190 . . . . .	15	3
56AA40490 . . . . .	5	7
56AA40490 . . . . .	11	16
56AA80070 . . . . .	7	9

