Safety Precautions

- Notes Before Servicing
Notes Before Servicing

⚠️ Caution
At servicing, be sure to turn off the power source according to the specified steps and disconnect the power plug.

⚠️ Caution
Do not turn off the power switch (of the host machine) when downloading is under way. Turning off the main power switch while downloading is under way can disable the machine.
1 Specifications

- Specifications
- Names of Parts
### Specifications

#### Paper Storage Method
- **Paper storage method**: Front loading method

#### Pickup Method
- **Pickup method**: Separation retard method

#### Paper Stack Capacity
- **Paper stack capacity**: 550 sheets (80g/m² paper), 680 sheets (64g/m² paper)

#### Cassette
- **Cassette**: 2

#### Paper Feed Reference
- **Paper feed reference**: Center reference

#### Paper Type
- **Paper Type**: 64g/m² ~ 90g/m²

#### Paper Size

#### Paper Grammage
- **Paper grammage**: 64 to 90g/m²

#### Paper Size Switch
- **Paper size switch**: Size auto detection

#### Control Panel
- **Control Panel**: None (Use the key on the host machine)

#### Display
- **Display**: None (Use the key on the host machine)

#### Environmental Measure
- **Environmental measure**: Heater for paper humidity adjustment

#### Power Supply
- **Power supply**: No

#### Size
- **Size**: 565(W) - 650(D) - 248(H) [mm]

#### Weight
- **Weight**: 27.5kg

#### Max. Power Consumption
- **Max. power consumption**: 100W

### Names of Parts

#### External View
- **External Cover**
  - [1] Left cover
  - [2] Upper tray cover
  - [3] Lower tray cover
  - [4] Right front cover
  - [5] Pedestal right cover
  - [6] Right lower cover
  - [7] Right rear cover
  - [8] Rear cover
  - [9] Connector cover

#### Cross-Section View
- **Pickup Roller 3**
- **Pickup Roller 4**
- **Feed Roller 3**
- **Detachment Roller 3**
- **Vertical path Roller 3**
- **Feed Roller 4**
- **Detachment Roller 4**
- **Vertical path Roller 4**
Installation

- How to Check this Installation Procedure
- Checking the Contents
- Installation Procedure
- Adjustment
How to Check this Installation Procedure

When using the parts included in the package

A symbol is described on the illustration in the case of using the parts included in the package of this product.

Packaged Item

F-2-1

Symbols in the illustration

The frequently-performed operations are described with symbols in this procedure.

Screw

Tighten
Remove

Connector

Connect
Disconnect

Harness

Secure
Free

Claw

Insert
Remove
Push
Plug in
Turn on

Checking instruction

Check
Visual Check
Sound Check

Points to Note at Installation

• In the case of connecting to the 250 Sheets Cassette Model, the Cassette Spacer-A1 is required.
• To enable function of the heater, "Cst Heater Kit-J1" and "Cassette Heater Unit-37" must be installed.
# Checking the Contents

## CST. Feeding Unit-AE1

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Cassette Feeding Unit" /></td>
<td><img src="image2.png" alt="Positioning Pin" /></td>
<td><img src="image3.png" alt="Connecting Fixture" /></td>
<td><img src="image4.png" alt="Connector Cover" /></td>
</tr>
</tbody>
</table>

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>[5]</td>
<td>Size Plate x 2</td>
<td>[6]</td>
</tr>
<tr>
<td><img src="image5.png" alt="Size Plate" /></td>
<td><img src="image6.png" alt="Screw" /></td>
<td></td>
</tr>
</tbody>
</table>

### Contents of Cassette Spacer-A1

**MEMO:**
Use the Cassette Spacer-A1 when connecting to the 250 Sheets Cassette Model.
### Installation > Checking the Contents

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[1]</td>
<td>Cassette Spacer x 1</td>
</tr>
<tr>
<td>[2]</td>
<td>Positioning Pin (Long) x 2</td>
</tr>
<tr>
<td>[3]</td>
<td>Connecting Fixture x 1</td>
</tr>
<tr>
<td>[4]</td>
<td>Connector Cover x 1</td>
</tr>
</tbody>
</table>

*Not use with this procedure.*
Turning OFF the Host Machine

Turn OFF the main power switch on the host machine, and then remove the power plug from the outlet.

Unpacking

1) Remove the container box.
2) Open the plastics, and remove the 2 pads by lifting the rear side of the equipment. Then, move the plastics toward the pads at the front side.
3) Remove the 2 remaining pads and the plastics by lifting the front side of the equipment.
4) Lift the equipment and unload it from the pallet.
5) Remove all tapes affixed on the outside of the equipment.
6) Remove the all tapes on the cassette and packing materials.
Installation Procedure

MEMO:
Be sure to execute the following step 1) to 3) only when connecting with the 250-sheet cassette model.

1) When connecting with the 250-sheet cassette model, loosen the 2 Positioning Pins which were installed to the Cassette Feeding Unit. (The removed Positioning Pins are no longer used.)
   - 4 Screws (The removed screw will be used in step 2.)

2) Install the 2 Positioning Pins (Long) packaged with Cassette Spacer-A1.
   - 4 Screws (Use the screws removed in step 1.)
3) When connecting to the 250 Sheets Cassette Model, install the Cassette Spacer included in the Cassette Spacer-A1 by inserting it into the 2 Positioning Pins.

4) In the case that the Cassette Module (1- Cassette Unit) is installed, remove it with a flat-blade screwdriver.

5) In the case that the Grip Covers are installed, release the claws with a flat-blade screwdriver and remove the Grip Covers.

6) Open the Right Lower Cover of the Cassette Feeding Unit.

7) Hold the 4 Grips on the host machine, and mount the host machine while aligning the right and left corners of the front of the host machine and the front of the Cassette Feeding Unit.

CAUTION:
- When mounting the host machine on the equipment, be sure to fit the holes on the bottom of the host machine into the 2 Positioning Pins on the top of the equipment.
- The host machine weighs maximum approx. 50 to 79 kg. It is recommended to lift it with 2 people or more. However, if there is a standard to handle a heavy load in each sales company, follow it for operation. Also, make sure to lift the machine with keeping it level at operation.

8) Close the Cassette Right Lower Cover.

9) Remove the cassettes to which the Connecting Fixture will be installed in a later step.
10) Install the Connecting Fixture.
   • 1 Screw (RS Tightening; M3 x 8.5)

< When Connecting to 550 Sheets Cassette Model >
   • To install the Connecting Fixture, insert it into the hole on the host machine and hook the tab of it to the plate on the host machine.

< When Connecting to 250 Sheets Cassette Model >
   • To install the Connecting Fixture, insert it included in the Cassette Spacer-A1 into the hole on the host machine, and hook the tab of it to the plate on the host machine.

< When Connecting to Cassette Module (1- Cassette Unit) >
11) Remove the Connector Cover. (The removed cover will not be used.)
   • 1 Screw (The removed screw will be used in step 14.)

< In the Case of Host Machine >

12) Put the 3 cables of the Cassette Feeding Unit through the guide, and connect the 3 connectors to the host machine.

MEMO:
Connect the connector with black color tube to "Cst Heater Kit-J1" (option).

CAUTION:
• When securing the 3 cables in place with the guide, be sure to place one cable to one groove of the guide.
• Be sure to tuck the extra slack of the cable to the host machine side.

< When Connecting to 550 Sheets Cassette Model >

< When Connecting to 250 Sheets Cassette Model >

< When Connecting to Cassette Module (1- Cassette Unit) >
13) Loosen the screw on the Connector Cover included in the package, and install the grounding wire between it and the toothed washer.

CAUTION:
• Be sure to pay attention to the installation orientation of the grounding wire.
• Install from the direction of the arrow marked on the Plate.
14) Install the Connector Cover.
   • 1 Screw (Use the screw removed in step 11.)

   CAUTION:
   Be sure not to trap the cable.

15) Turn the 4 Adjusters clockwise 4 times, and secure the equipment in place firmly.

16) Install the removed covers.
   • Grip Cover
   • Right Lower Sub Cover (In the case that the Cassette Module (1-Cassette Unit) is installed.)

   17) Return the cassette of the host machine.
   18) Plug the power plug of the host machine to the outlet.
   19) Turn ON the main power switch.
1) Hold the Side Guide Plate Lever and set the Side Guide Plate to the specified size. At this time, set the Side Guide Plate to the click position (the position where you feel a click) by moving the Side Guide Plate while using the size index (label) of the sheet size to be set as a measure.

2) Hold the Trailing Edge Guide Plate Lever and set the Trailing Edge Guide Plate to the specified size. At this time, set the Trailing Edge Guide Plate to the click position (the position where you feel a click) by moving the Trailing Edge Guide Plate while using the size index (label) of the sheet size to be set as a measure.

3) Set papers.

4) Open the cover at the Size Plate insertion area.

5) Cut the 2 places of the Size Plates with nippers.

6) Insert the Size Plate in accordance with the paper size being set. (Lump the Size Plates not in use together and store them at the rear.)

7) Close the cover at the Size Plate insertion area, and return the cassette to the equipment.

MEMO: The paper size setting is recognized automatically.
Adjustment of Margin (1st side)

1) Make a copy from the Cassette 3 and 4, and check that the left edge margin is 2.5 +/- 1.5mm.

MEMO:
As for the adjustment method, the same procedure is applied to the Cassette 3 and 4.

2) Pull out the cassette.
3) Check the 2 scale positions of the Adjustment Plate.

MEMO:
In the case of out of specification, execute step 2) through 8) indicated below.

4) Loosen the 3 Fixation Screws.
Technology

- Basic Configuration
- Pickup/Feed System
- JAM Detection
- Power supply
Papers in the cassette are lifted up with the Lifter Plate. At pickup, the Pickup Roller picks up a paper by coming down and contact with paper surface. When the Pickup Roller comes down, the Pickup Solenoid turns ON. A paper picked up by the Pickup Roller is fed to the feed path with the Separation Roller, and then, is fed to the Registration Roller with the Vertical Path Roller. The Vertical Path Roller, Pickup Roller, Feed Roller and Separation Roller are driven by the Cassette Pickup Motor.
**Paper Size Detection**

At the cassette pickup assembly, since the feed speed is increased, detection cannot catch up with it. Thus, delay and stationary jam detection are not executed at the Cassette 1 Pre-Registration Sensor. Instead of it, the Vertical Path Sensor executes the delay and stationary jam detection. Since the residual jam should be detected on each cassette, the Cassette 1 Pre-Registration Sensor detects it. Because the Vertical Path Sensor is too close and it is unnecessary to execute detection, the Vertical Path Sensor does not execute residual jam detection.
Also, the cassette presence is detected when the size switch is pushed. (If no switch is pushed, it is determined as no cassette.)

<table>
<thead>
<tr>
<th>Width detection</th>
<th>Length detection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>Length</td>
</tr>
<tr>
<td>B5</td>
<td>257.0</td>
</tr>
<tr>
<td>EXEC</td>
<td>267.0</td>
</tr>
<tr>
<td>16K</td>
<td>270.0</td>
</tr>
<tr>
<td>A5-R</td>
<td>148.5</td>
</tr>
<tr>
<td>A4</td>
<td>297.0</td>
</tr>
<tr>
<td>STMT-R</td>
<td>139.7</td>
</tr>
<tr>
<td>LTR</td>
<td>279.4</td>
</tr>
<tr>
<td>B5-R</td>
<td>182.0</td>
</tr>
<tr>
<td>LTR-R</td>
<td>215.9</td>
</tr>
<tr>
<td>A4-R</td>
<td>210.0</td>
</tr>
<tr>
<td>LGL</td>
<td>215.9</td>
</tr>
<tr>
<td>B4</td>
<td>257.0</td>
</tr>
<tr>
<td>8K</td>
<td>270.0</td>
</tr>
<tr>
<td>A3</td>
<td>277.0</td>
</tr>
<tr>
<td>LDR</td>
<td>279.4</td>
</tr>
<tr>
<td>12x18</td>
<td>304.8</td>
</tr>
</tbody>
</table>

Also, the cassette presence is detected when the size switch is pushed. (If no switch is pushed, it is determined as no cassette.)
Setting method when the size detection patterns are overlapped

Size should be found manually on the check screen for the combination of A5-Rand STMT-R or the combination of B5-R and EXEC.
Specify the recognition method for the special paper with user setting.
The setting size is indicated below.

Related Service Mode

COPIER> OPTION> CST> CSTX-UY> Number

X shows Cassette Number. Y shows size category. (X, Y is one of the number 1/2/3/4.)

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>U2</td>
<td>G-LTR-R, K-LGL-R</td>
</tr>
<tr>
<td>U3</td>
<td>K-LGL, G-LTR, A-LTR</td>
</tr>
<tr>
<td>U4</td>
<td>B-OFI</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>22</td>
<td>K-LGL</td>
</tr>
<tr>
<td>23</td>
<td>K-LGLR</td>
</tr>
<tr>
<td>24</td>
<td>FLSC</td>
</tr>
<tr>
<td>25</td>
<td>A-FLS</td>
</tr>
<tr>
<td>27</td>
<td>E-OFI</td>
</tr>
<tr>
<td>28</td>
<td>B-OFI</td>
</tr>
<tr>
<td>29</td>
<td>A-LTR</td>
</tr>
<tr>
<td>30</td>
<td>A-LTRR</td>
</tr>
<tr>
<td>31</td>
<td>G-LTR</td>
</tr>
<tr>
<td>32</td>
<td>G-LTRR</td>
</tr>
<tr>
<td>33</td>
<td>A-LGL</td>
</tr>
<tr>
<td>34</td>
<td>G-LGL</td>
</tr>
<tr>
<td>36</td>
<td>A-OFI</td>
</tr>
<tr>
<td>37</td>
<td>M-OFI</td>
</tr>
<tr>
<td>42</td>
<td>FA4</td>
</tr>
</tbody>
</table>

Sample: When setting A_LTR in the Cassette 3,
COPIER> OPTION> CST> CST3-U3>29

Paper level sensor

Paper level in a cassette is detected with the sensor indicated below.

<table>
<thead>
<tr>
<th>Cassette 3</th>
<th>Cassette 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cassette paper level sensor A</td>
<td>PS4</td>
</tr>
<tr>
<td>Cassette paper level sensor B</td>
<td>PS5</td>
</tr>
<tr>
<td>Cassette paper sensor</td>
<td>PS2</td>
</tr>
</tbody>
</table>

Cassette paper sensor(PS2)

Lifter latch

Flag

Paper sensor flag

Lifter gear

Tray
If the paper is full:

Cassette paper level sensor A

If the paper is approx. half:

Cassette paper level sensor A

If the paper is a little:

Cassette paper level sensor A

If the paper is absent:

Cassette paper Presence sensor

Paper level sensor A

Paper level sensor B

Paper level Display

<table>
<thead>
<tr>
<th>Paper level sensor A</th>
<th>Paper level sensor B</th>
<th>Paper level sensor</th>
<th>Paper level</th>
<th>Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>100% to 50%</td>
<td></td>
</tr>
<tr>
<td>ON</td>
<td>OFF</td>
<td>OFF</td>
<td>50% to 50 sheets</td>
<td></td>
</tr>
<tr>
<td>ON</td>
<td>ON</td>
<td>OFF</td>
<td>50 sheet or less</td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>ON</td>
<td>no paper</td>
<td></td>
</tr>
</tbody>
</table>

F-3-8
### JAM Detection

#### Delay JAM

In case that the leading edge of paper does not reach to the sensor within the specified time after the speed of Cassette 3 and 4 Pickup Motor decreases to half.

- **JAM Detection**
- **Fan-out JAM**

#### Stationary JAM

In case that the corresponding sensor is not turned ON within the specified time after it is turned ON.

- Start key ON
- or
- Print start

#### Power ON JAM

Before starting the warm-up rotation at power ON, check that no paper is at the sensor indicated below.

#### Door open JAM

When it is detected that the door is opened during copy and printing.
**Power supply**

### Power connection with each option

Indicating the power supply path between the Printer and Option.

When power is turned ON, the connected equipment supplies 24VDC and 5VDC to the Pedestal Controller PCB. 25VDC generates 3.3VDC in 3-Terminal Regulator in the Pedestal Control PCB, 5VDC is used for sensors and IC driver and the 3.3VDC is used for the Control IC (Asic).
4 Parts Replacement Procedure

- Remove from the host machine
- Removing the Cassette Feed Roller
- Removing the Separation Roller
- Removing the Pickup Roller
- Removing the Pickup Assembly Idler Gear
- Removing the Cassette 3 Pickup Unit
- Removing the Cassette Size Detection Unit
- Removing the Pickup Motor
- Removing the Pedestal Controll PCB
- Removing the Cassette Right Lower Cover
Parts Replacement

Remove from the host machine

Before removing the host machine
- Remove the Connector Cover

<In the Case of Host Machine>

<In the Case of 1-Cassette Unit>

How to remove
1) Remove the 3 harness from the guides
   <When Connecting to 550 Sheets Cassette Model>

<When Connecting to 250 Sheets Cassette Model>
<When Connecting to 1- Cassette Unit>

1) Remove the Cassette
2) Remove the Cassette Unit
3) Remove the Connecting Fixture
   - 1-screw

<When Connecting to 550 Sheets Cassette Mode>

- [Diagram of screw removal]
- [Diagram of cassette unit removal]

BOTTOM VIEW
< When Connecting to 250 Sheets Cassette Mode>

4) Lift and remove the host machine

CAUTION:
- The host machine weighs maximum approx. 50 to 79 kg. It is recommended to lift it with 2 people or more. However, if there is a standard to handle a heavy load in each sales company, follow it for operation. Also, make sure to lift the machine with keeping it level at operation.

5) Install the cassette 3 and cassette 4

< When Connecting to 1-Cassette Unit>
Removing the Cassette Feed Roller

Before removing the Cassette Feed Roller
• Remove the Cassette

MEMO:
This procedure describes the removing steps of cassette 1 Feed Roller. Go through the same procedure for the Feed Roller of cassette 3 and cassette 4.

Note:
Do not touch the surface of Pickup Roller, Feed Roller and the Separation Roller.

How to remove
1) Remove the Cassette Feed Roller.
   • 1 tab

Removing the Separation Roller

Before removing the Separation Roller
• Remove the Cassette

MEMO:
This procedure describes the removing steps of cassette 1 Separation Roller. Go through the same procedure for the Separation Roller of cassette 3 and cassette 4.

Note:
Do not touch the surface of Pickup Roller, Feed Roller and the Separation Roller.

1) Remove the Separation Roller
   • 1 tab
### Removing the Pickup Roller

**Before removing the Cassette Pickup Roller**
- Remove the Cassette

**How to remove**

**MEMO:**
This procedure describes the removing steps of cassette 1 Pickup Roller. Go through the same procedure for the Pickup Roller of cassette 3 and cassette 4.

**Note:**
Do not touch the surface of Pickup Roller, Feed Roller and the Separation Roller.

1) Removing the Pickup Roller
- 1 pin
- 1 tab

---

### Removing the Pickup Assembly Idler Gear

**Before removing the Pickup Assembly Idler Gear**
- Remove the Cassette
- Remove the Pickup Roller
- Remove the Feed Roller

**How to remove**

**MEMO:**
This procedure describes the removing procedure of cassette 1 Pickup Assembly Idler Gear. Go through the same procedure for the Pickup Assembly Idler Gear of cassette 3 and cassette 4.

**Note:**
Do not touch the surface of Pickup Roller, Feed Roller and the Separation Roller.

1) Remove the Pickup Assembly Idler Gear.
- 1 tab
Removing the Cassette 3 Pickup Unit

Before removing the Cassette 3 Pickup Unit

1) Open the Cassette Right Lower Cover of the Cassette Feeding Unit.

2) Pull out cassette.

3) Remove the Right Front Cover of the Host Machine.
   • Remove the claw with a flat-blade screwdriver and remove the Right Front Cover.
     • 1 screw
     • 1 claw
5) Remove the Right Rear Cover of the Host Machine.
   • Remove the claw with a flat-blade screwdriver and remove the Right Rear Cover.
     • 1 screw

6) Remove the Right Rear Cover of the 2-Cassette Unit.
   • 1 screw

When Connecting to 1-Cassette Unit

MEMO:
When Connecting to 1-Cassette Unit, be sure to remove the Cassette Right Lower Cover.

1) Remove the Cassette Right Lower Cover of the 1-Cassette Unit.

2) Remove the Right Front Cover of the Host Machine and remove Right Front Cover of the
   1-Cassette Unit
   • 1 screw
3) Remove the Right Rear Cover of the Host Machine and remove Right Rear Cover of the 1-Cassette Unit
  • Remove the Right Front Cover
    • 1 screw

How to remove

MEMO:
This procedure describes the removing procedure of Cassette 3 Pickup Assembly. Go through the same procedure for the Cassette 4 Pickup Assembly.

1) Remove the Sensor Unit.
   • 1 screw
   • 1 connector
   • 1 harness guide

2) Remove the cassette 3 Pickup Unit
   • 4 screws
Removing the Cassette Size Detection Unit

Before removing the Cassette Size Detection Unit
- Remove the Right Front Cover
- Remove the Right Rear Cover
- Remove the Cassette Pickup Unit

How to remove

MEMO:
This procedure describes the removing steps of Cassette 3 Size Detection Unit. Go through the same procedure for Cassette 4 Size Detection Unit.

1) Remove the Cassette 3 Size Detection Unit
   - 1 connector
   - 1 wire saddle
   - 2 screws

Removing the Pickup Motor

Before removing the Pickup Motor
- Remove the Connector Cover
- Remove 5 connectors
- Remove Rear Cover
  - 4 screws
  - 2 hooks

How to remove

MEMO:
This procedure describes the removing step of cassette 3 Pickup motor. Go through the same procedure for the Pickup motor of cassette 4.
1) Remove the upper pickup motor.
   - 1 connector
   - 3 screws

Removing the Pedestal Controll PCB

Before removing the Pedestal Controll PCB
- remove the Connector Cover
- Remove the 5 connectors
- Remove the Rear Cover

How to remove
1) Remove the Pedestal Controll PCB
   - 7 connectors
   - 4 screws
Removing the Cassette Right Lower Cover

Before removing the Cassette Right Lower Cover
• Open the cassette right lower cover

How to remove
1) Lift up lower guide and remove the arm

2) Fit the D-cut and remove the cassette right lower cover
Maintenance

- Periodical maintenance
- Adjustment
- Parts Configuration / Role
Adjustment

Margin Adjustment

First side; Mechanical Adjustmen

1) Make copies using the Cassette 3 and 4, and check that the left edge margin is 2.5±1.5mm.

MEMO:
Adjustment method is same for both the Cassette 3 and 4.
2) Pull out the cassette.
3) Check the 2 scale positions on the adjusting plates.

4) Loosen the 3 fixing screws.

5) Move the adjusting plates back and forth by referring the scale checked in the step 2. As moving the adjusting plate toward the rear by 1 scale, the left edge margin becomes 1mm smaller.

MEMO:
When moving the scale, be sure that the amount of the value to be moved are the same for the 2 points.

6) Tighten the fixing screw.
7) Return the cassette to its original position.

MEMO:
When the cassette positions are uneven due to the mechanical adjustment, adjust them by loosening the screw at left side.

8) Make copies using the Cassette 3 and 4, and check that the left edge margin is 2.5±1.5mm.
## Parts Configuration / Role

### Parts Configuration / Role

<table>
<thead>
<tr>
<th>Mark</th>
<th>Name</th>
<th>Part No.</th>
<th>Role</th>
<th>Pedestal controller PCB</th>
</tr>
</thead>
<tbody>
<tr>
<td>M1</td>
<td>Cassette 3 pickup motor</td>
<td>FK2-7327</td>
<td>Drive the pickup unit 3</td>
<td>J3006</td>
</tr>
<tr>
<td>M2</td>
<td>Cassette 4 pickup motor</td>
<td>FK2-7327</td>
<td>Drive the pickup unit 4</td>
<td>J3007</td>
</tr>
<tr>
<td>PS4</td>
<td>Cassette 3 paper level sensor A</td>
<td>FK2-0149</td>
<td>Detects the cassette 3 paper level</td>
<td>J3003</td>
</tr>
<tr>
<td>PS5</td>
<td>Cassette 3 paper level sensor B</td>
<td>FK2-0149</td>
<td>Detects the cassette 3 paper level</td>
<td>J3003</td>
</tr>
<tr>
<td>PS8</td>
<td>Cassette 3 retry sensor</td>
<td>FK2-0149</td>
<td>Cassette 3 Retry Detection</td>
<td>J3003</td>
</tr>
<tr>
<td>PS2</td>
<td>Cassette 3 paper sensor</td>
<td>FK2-0149</td>
<td>Detects whether paper is loaded in the cassette 3</td>
<td>J3003</td>
</tr>
<tr>
<td>PS6</td>
<td>Cassette 4 paper level sensor A</td>
<td>FK2-0149</td>
<td>Detects the cassette 4 paper level</td>
<td>J3004</td>
</tr>
<tr>
<td>PS7</td>
<td>Cassette 4 paper level sensor B</td>
<td>FK2-0149</td>
<td>Detects the cassette 4 paper level</td>
<td>J3004</td>
</tr>
<tr>
<td>PS9</td>
<td>Cassette 4 retry sensor</td>
<td>FK2-0149</td>
<td>Cassette 4 Retry Detection</td>
<td>J3004</td>
</tr>
<tr>
<td>PS3</td>
<td>Cassette 4 paper sensor</td>
<td>FK2-0149</td>
<td>Detects whether paper is loaded in the cassette 4</td>
<td>J3004</td>
</tr>
<tr>
<td>PS1</td>
<td>Pedestal right cover sensor</td>
<td>FH7-7312</td>
<td>Detects the right cover open</td>
<td>J3003</td>
</tr>
<tr>
<td>SL1</td>
<td>Cassette 3 pickup solenoid</td>
<td>FK2-0408</td>
<td>Controll the cassette 3 pickup timing</td>
<td>J3003</td>
</tr>
<tr>
<td>SL2</td>
<td>Cassette 4 pickup solenoid</td>
<td>FK2-0408</td>
<td>Controll the cassette 4 pickup timing</td>
<td>J3004</td>
</tr>
<tr>
<td>SW1</td>
<td>Cassette 3 size switch A</td>
<td>WC2-5680</td>
<td>Detects the cassette 3 paper size</td>
<td>J3003</td>
</tr>
<tr>
<td>SW2</td>
<td>Cassette 3 size switch B</td>
<td>WC2-5680</td>
<td>Detects the cassette 3 paper size</td>
<td>J3003</td>
</tr>
<tr>
<td>SW3</td>
<td>Cassette 4 size switch A</td>
<td>WC2-5680</td>
<td>Detects the cassette 4 paper size</td>
<td>J3004</td>
</tr>
<tr>
<td>SW4</td>
<td>Cassette 4 size switch B</td>
<td>WC2-5680</td>
<td>Detects the cassette 4 paper size</td>
<td>J3004</td>
</tr>
<tr>
<td>H1</td>
<td>Cassette heater</td>
<td>FH7-4742</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UN1</td>
<td>Pedestal controller PCB</td>
<td>FH4-2531</td>
<td>Controll the cassette pedal</td>
<td></td>
</tr>
</tbody>
</table>

---

**Diagram:**

- Cassette 3 paper presence sensor (PS2)
- Cassette 3 pickup solenoid (SL1)
- Cassette 3 paper level sensor A (PS4)
- Cassette 3 paper level sensor B (PS5)
- Pedestal controller PCB (UN1)
- Cassette 4 retry sensor (PS9)
- Cassette 4 pickup solenoid (SL2)
- Cassette 4 paper level sensor A (PS6)
- Cassette 4 paper level sensor B (PS7)
- Pedestal right cover sensor (PS1)
- Cassette 3 size switch A (SW1)
- Cassette 3 size switch B (SW2)
- Cassette 4 size switch A (SW3)
- Cassette 4 size switch B (SW4)
- Cassette heater (H1)
Appendix

- Service Tools
- General Circuit Diagram (1/3)
- General Circuit Diagram (2/3)
- General Circuit Diagram (3/3)
In addition to the standard tools set, the following special tools are required when servicing the machine:

<table>
<thead>
<tr>
<th>Tool name</th>
<th>Tool No.</th>
<th>Ctg</th>
<th>Appearance</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digital multimeter</td>
<td>FY9-2002</td>
<td>A</td>
<td>Used as a probe extension when making electrical checks.</td>
<td></td>
</tr>
</tbody>
</table>

Reference: Category
A: Must be kept by each service engineer.
B: Must be kept by each group of about five engineers.
C: Must be kept by each workshop