TOSHIBA

# SERVICE MANUAL
## PAPER FEED PEDESTAL

# KD-1003/2009



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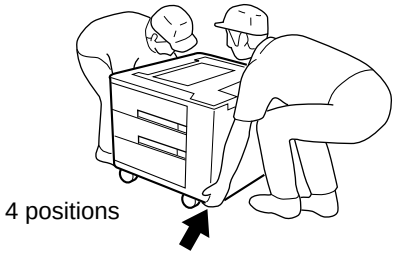
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# GENERAL PRECAUTIONS FOR INSTALLATION/SERVICING/ MAINTENANCE

1. When installing the Paper Feed Pedestal KD-1003/2009 to the Copier, be sure to follow the instructions described in the “Unpacking /Set-Up Procedure for the KD-1003/2009” booklet which comes with each unit of the KD-1003/2009.
   **Caution:** Be extremely careful when lifting and placing the copier onto the KD-1003/2009.




2. The KD-1003/2009 should be installed by an authorized/qualified person.
3. Before starting installation, servicing or maintenance work, be sure to turn off and unplug the copier first.
4. The KD-1003/2009 is supplied with power from the copier, requiring no additional power source.
5. The KD-1003/2009 should be grounded to the specified positions on the machine frame.
6. When servicing or maintaining the KD-1003/2009, be careful about the rotating or operating sections such as gears, pulleys, sprockets, cams, belts, etc.
7. When parts are disassembled, reassembly is basically the reverse of disassembly unless otherwise noted in this manual or other related documents. Be careful not to reassemble small parts such as screws, washers, pins, E-rings, toothed washers to the wrong places.
8. Basically, the machine should not be operated with any parts removed or disassembled.
9. Delicate parts for preventing safety hazard problems (such as thermofuses, door switches, sensors, etc. if any) should be handled/installed/adjusted correctly.
10. During servicing or maintenance work, be sure to check the nameplate and other cautionary labels (if any) to see if they are clean and firmly stuck. If not, take appropriate actions.
11. Use suitable measuring instruments and tools.
12. The PC board must be stored in an anti-electrostatic bag and handled carefully using a wristband, because the ICs on it may be damaged due to static electricity.
13. For the recovery and disposal of used KD-1003/2009s, consumable parts and packing materials, it is recommended that the relevant local regulations/rules should be followed.

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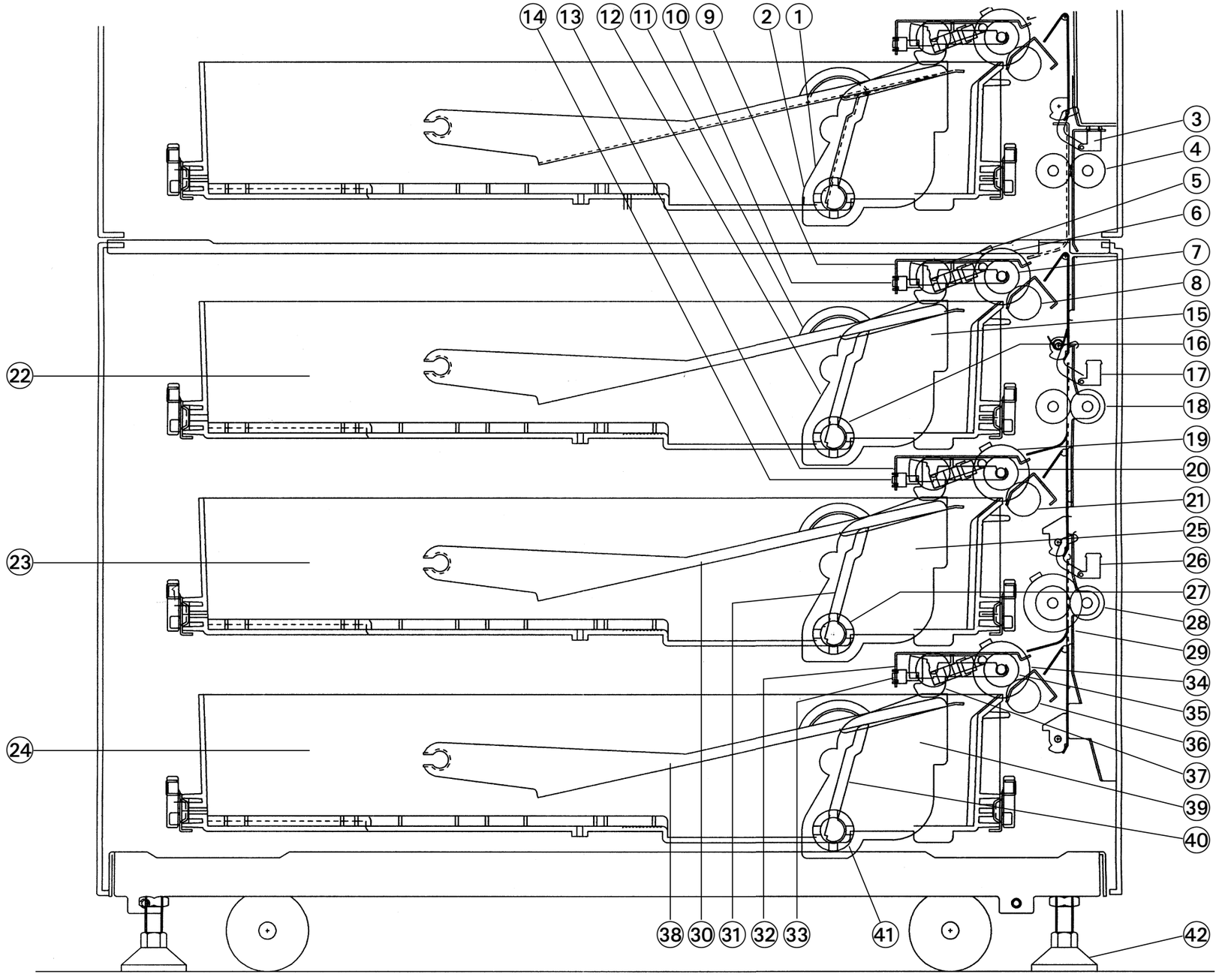
# 1. SPECIFICATIONS

| | |
|---|---|
| Model Name | KD-1003/2009 |
| Number of Cassettes | KD-1003: One cassette<br>KD-2009: Two cassettes (upgradable to three cassettes) |
| Acceptable Copy Paper Size | A3 – A5 size |
| Acceptable Paper Weight | 64 – 80 g/$m^2$ |
| Paper Speed | About 400 mm/sec. |
| Cassette Capacity | 600 sheets for each cassette |
| Dimensions | W598 x D625 x H452 mm |
| Weight | One cassette: Approx. 30 kg, two cassettes: Approx. 35 kg |
| Power Source | 5 V, 24 V (supplied from the copier) |

# 2. SUMMARY

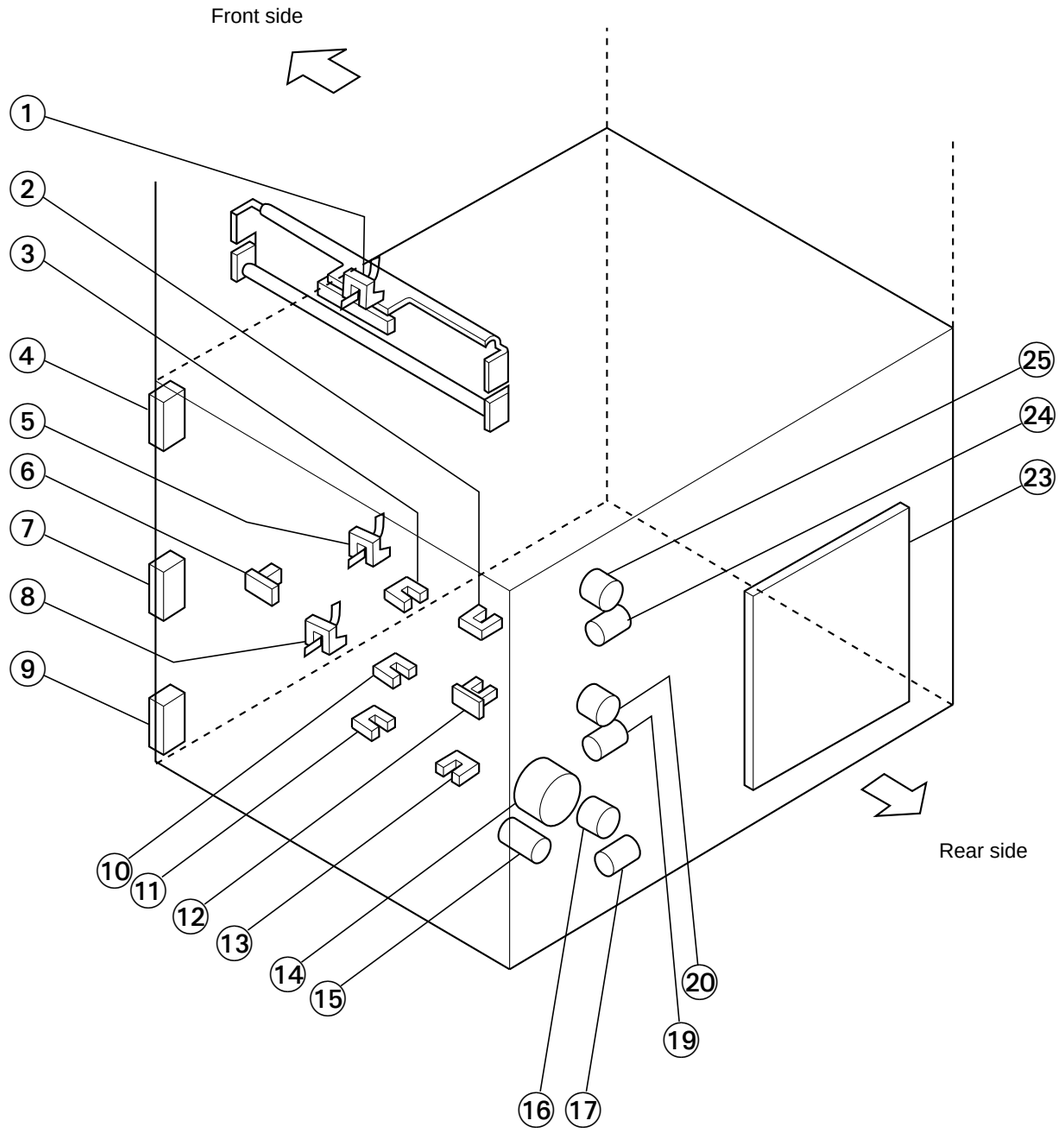
## 2.1 Front Sectional View

| Symbol | Name |
|---|---|
| 1 | TUP4-SW (S9) |
| 2 | EMP4-SW (S12) |
| 3 | Paper Stop Switch 3 |
| 4 | Transport Roller 3 |
| 5 | PFP-PICK-UP-ROLLER-1 |
| 6 | FD3-CLT (L3) |
| 7 | PFP-FEED-ROLLER-1 |
| 8 | PFP-SEPARATION-ROLLER-1 |
| 9 | TUP3-SW (S8) |
| 10 | EMP3-SW (S11) |
| 11 | PFP-CST1-TRAY |
| 12 | PFP-ELEVATOR-1 |
| 13 | TUP4-SW (S9) |
| 14 | EMP4-SW (S12) |
| 15 | TR3-MOT (M3) |
| 16 | PFP-ELEVATOR-COUPLING-1 |
| 17 | PSTP4-SW (S3) |
| 18 | TRANS-4-ROLLER |
| 19 | FD4-CLT (CL3) |
| 20 | PFP-FEED-ROLLER-2 |
| 21 | PFP-SEPARATION-ROLLER-2 |
| 22 | PFP-CST-1 |
| 23 | PFP-CST-2 |
| 24 | PFP-CST-3 |
| 25 | TR4-MOT (M4) |
| 26 | PSTP5-SW (S4) |
| 27 | PFP-ELEVATOR-COUPLING-2 |
| 28 | TRANS-5-ROLLER |
| 29 | PFP-CLT (CL1) |
| 30 | PFP-CST2-TRAY |
| 31 | PFP-ELEVATOR-2 |
| 32 | TUP5-SW (S10) |
| 33 | EMP5-SW (S13) |
| 34 | FD5-CLT (CL4) |
| 35 | PFP-FEED-ROLLER-3 |
| 36 | PFP-SEPARATION-ROLLER-3 |
| 37 | PFP-PICK-UP-ROLLER |
| 38 | PFP-CST3-TRAY |
| 39 | TR5-MOT (M4) |
| 40 | PFP-ELEVATOR-3 |
| 41 | PFP-ELEVATOR-COUPLING-3 |
| 42 | ADJUSTER |



## 2.2 Electrical Parts Layout

| Symbol | Name |
|---|---|
| 1 | PSTP3-SW (S2) |
| 2 | TUP3-SW (S8) |
| 3 | EMP3-SW (S11) |
| 4 | SIZE3-SW (S5) |
| 5 | PSTP4-SW (S3) |
| 6 | PFP-DOOR-SW (S1) |
| 7 | SIZE4-SW (S6) |
| 8 | PSTP5-SW (S4) |
| 9 | SIZE5-SW (S7) |
| 10 | EMP4-SW (S12) |
| 11 | EMP5-SW (S13) |
| 12 | TUP4-SW (S9) |
| 13 | TUP5-SW (S10) |
| 14 | PFP-MOT (M1) |
| 15 | PFP-CLT (CL1) |
| 16 | FD5-CLT (CL4) |
| 17 | TR5-MOT (M4) |
| 19 | TR4-MOT (M3) |
| 20 | FD4-CLT (CL3) |
| 23 | PWA-F-PFP-766 |
| 24 | TR3-MOT (M2) |
| 25 | FD3-CLT (CL2) |




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## 2.3 Electrical Part Symbols and Functions

### (1) Motors

| Symbol | Name | Function | Remarks |
|---|---|---|---|
| (M1) | PFP-MOT (PFP motor) | Entire roller drive for the paper feed and delivery systems | Brushless motor |
| (M2) | TR3-MOT (Tray-3 motor) | Raising drive for the upper tray | Brush motor |
| (M3) | TR4-MOT (Tray-4 motor) | Raising drive for the middle tray | Brush motor |
| (M4) | TR5-MOT (Tray-5 motor) | Raising drive for the lower tray | Brush motor |

### (2) Electromagnetic spring clutches

| Symbol | Name | Function | Remarks |
|---|---|---|---|
| (CL1) | PFP-CLT (PFP clutch) | Aligning roller drive transmission | |
| (CL2) | FD3-CLT (Feed-3 clutch) | Upper pick-up and separation roller drive transmission | |
| (CL3) | FD4-CLT (Feed-4 clutch) | Middle pick-up and separation roller drive transmission | |
| (CL4) | FD5-CLT (Feed-5 clutch) | Lower pick-up and separation roller drive transmission | |

### (3) Switches

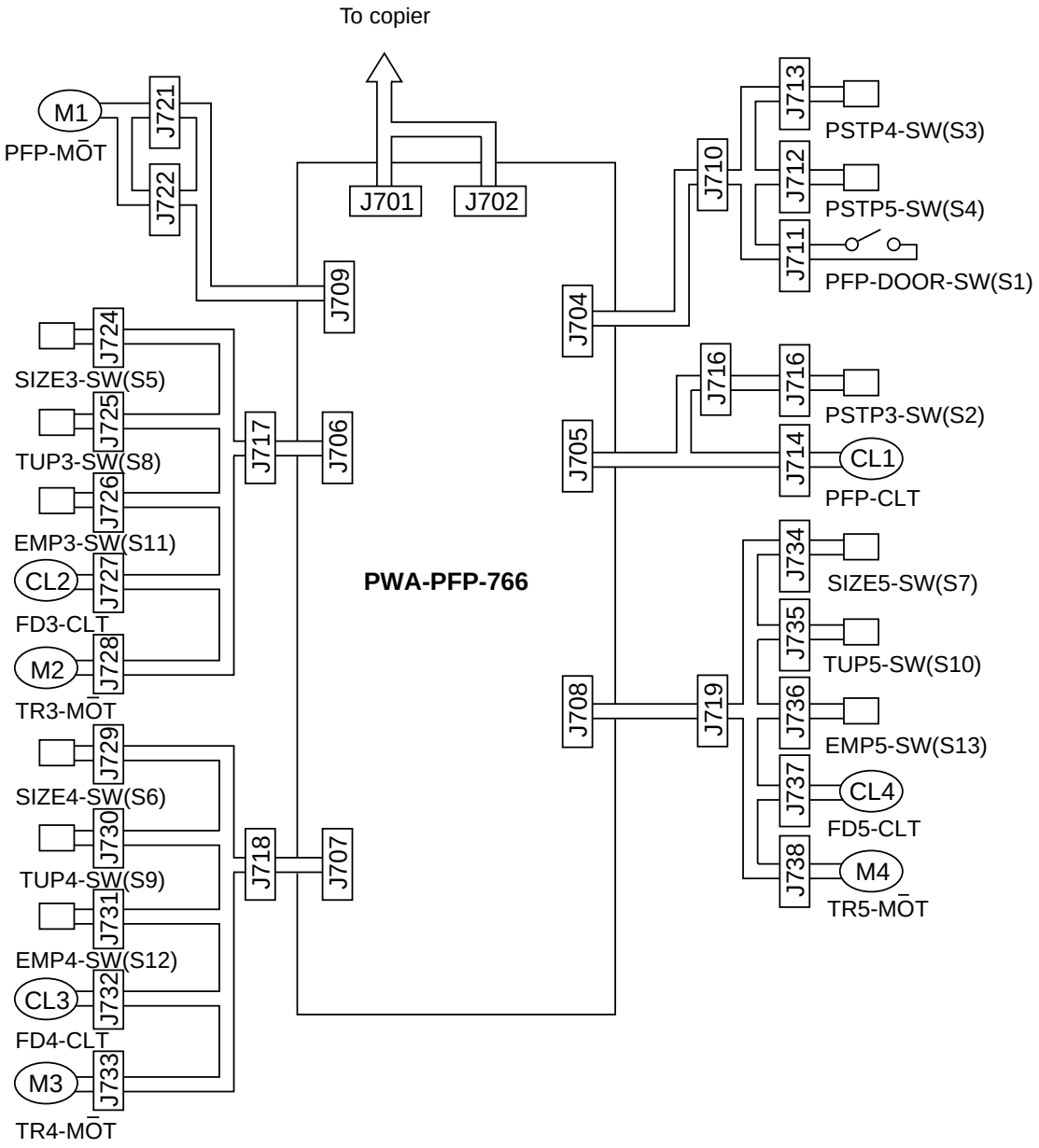
| Symbol | Name | Function | Remarks |
|---|---|---|---|
| (S1) | DOOR-SW (PFP door switch) | PFP door open detection | Microswitch |
| (S2) | PSTP3-SW (Paper stop 3 switch) | Upper paper feed alignment | Photo-interrupter |
| (S3) | PSTP4-SW (Paper stop 4 switch) | Middle paper feed alignment | Photo-interrupter |
| (S4) | PSTP5-SW (Paper stop 5 switch) | Lower paper feed alignment | Photo-interrupter |
| (S5) | SIZE3-SW (Size 3 switch) | Upper cassette removal and paper size detection | |
| (S6) | SIZE4-SW (Size 4 switch) | Middle cassette removal and paper size detection | |
| (S7) | SIZE5-SW (Size 5 switch) | Lower cassette removal and paper size detection | |
| (S8) | TUP3-SW (Tray3-up switch) | Upper tray-up detection | Photo-interrupter |
| (S9) | TUP4-SW (Tray4-up switch) | Middle tray-up detection | Photo-interrupter |
| (S10) | TUP5-SW (Tray5-up switch) | Lower tray-up detection | Photo-interrupter |
| (S11) | EMP3-SW (Empty3 switch) | Upper paper empty switch | Photo-interrupter |
| (S12) | EMP4-SW (Empty4 switch) | Middle paper empty switch | Photo-interrupter |
| (S13) | EMP5-SW (Empty5 switch) | Lower paper empty switch | Photo-interrupter |

### (4) PC board

| Symbol | Name | Function | Remarks |
|---|---|---|---|
| — | PWA-F-PFP-766 | Drives paper feeding and tray driving | |

## 2.4 Wire Harness Diagrams

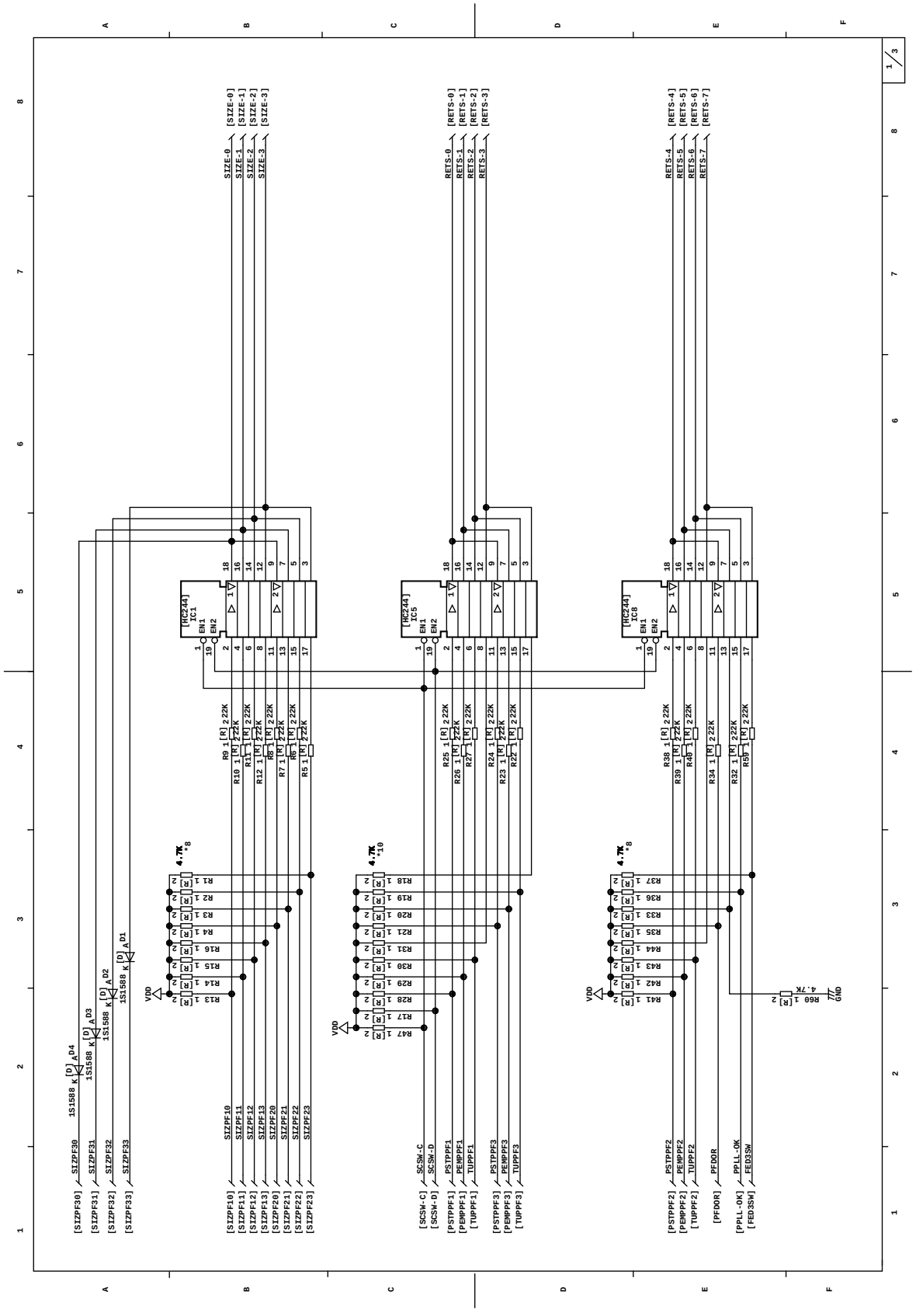
**• DC**



## 2.5 Electrical Circuits

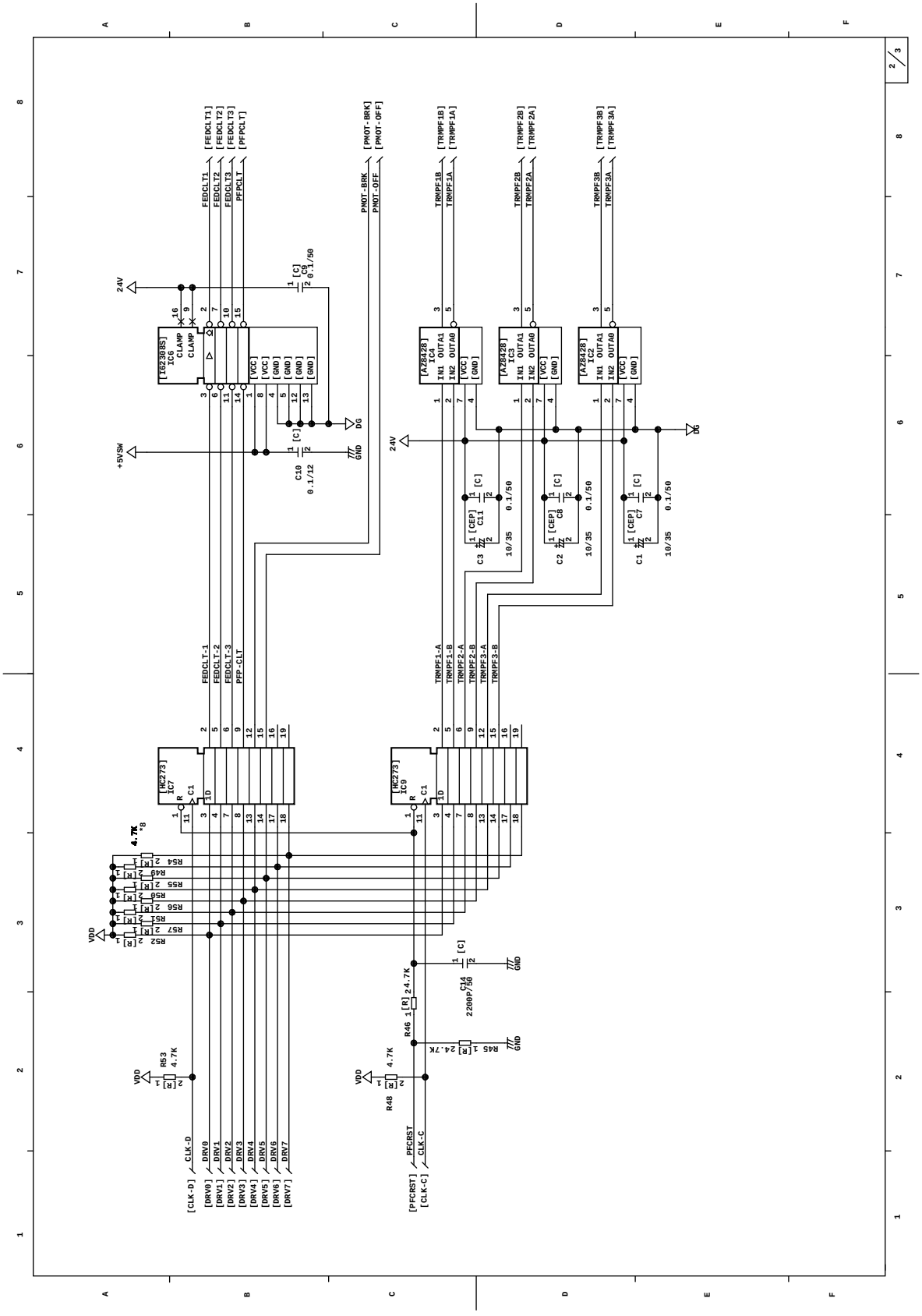
***HINT***

How to search for where a signal in a circuit diagram has jumped to.



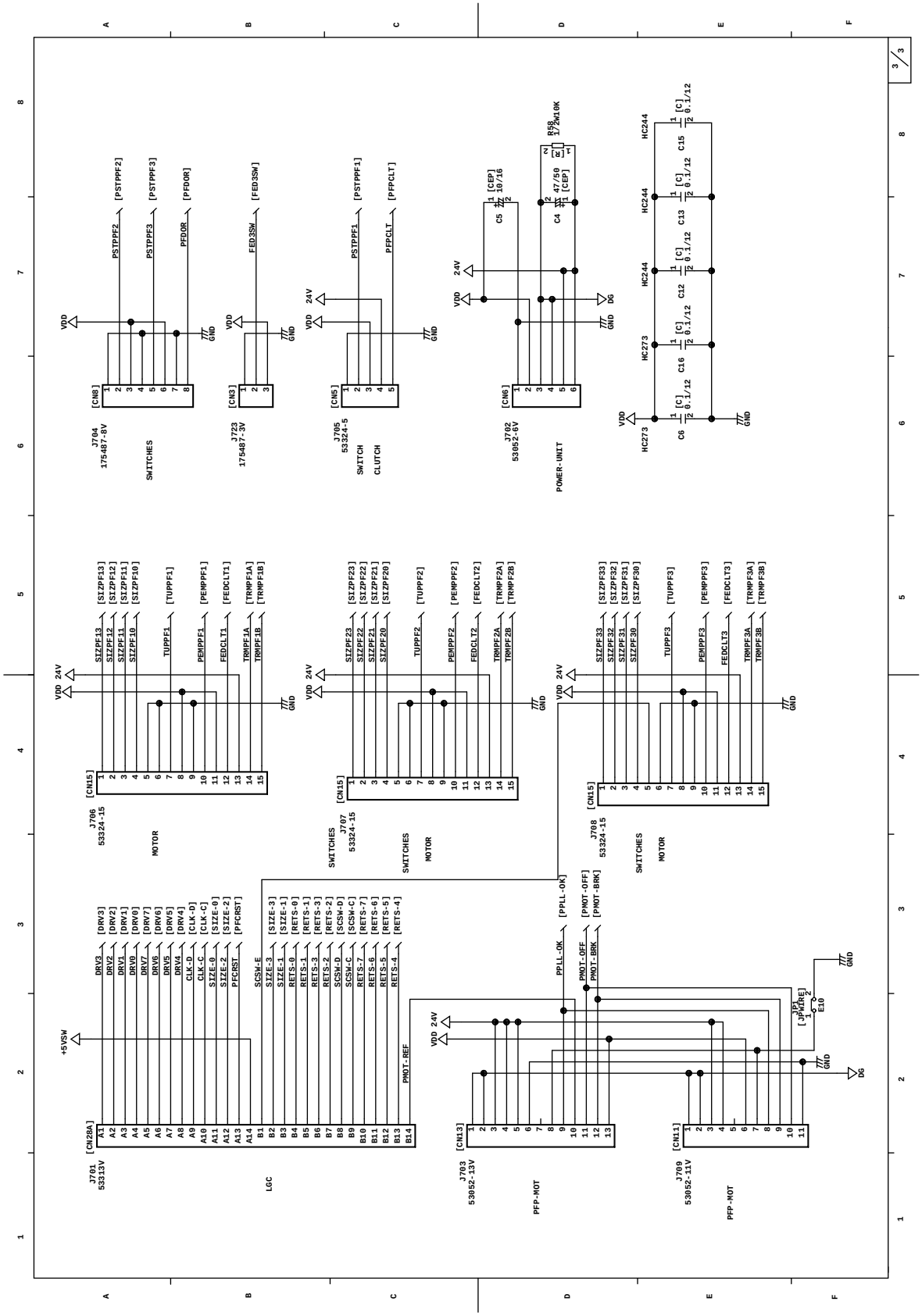
***HINT***

How to search for where a signal in a circuit diagram has jumped to.

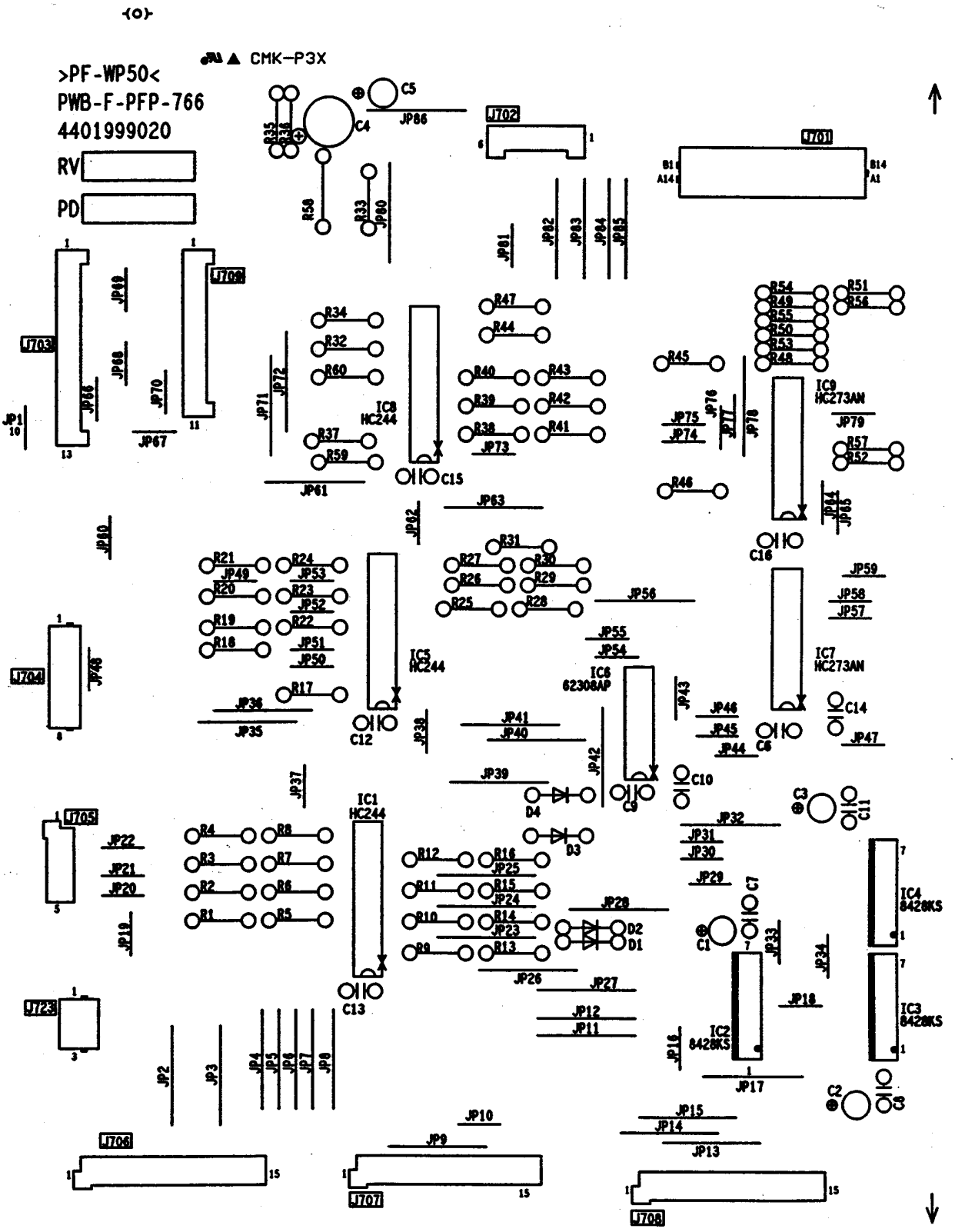


***HINT***

How to search for where a signal in a circuit diagram has jumped to.



## 2.6 Assembly PC Board

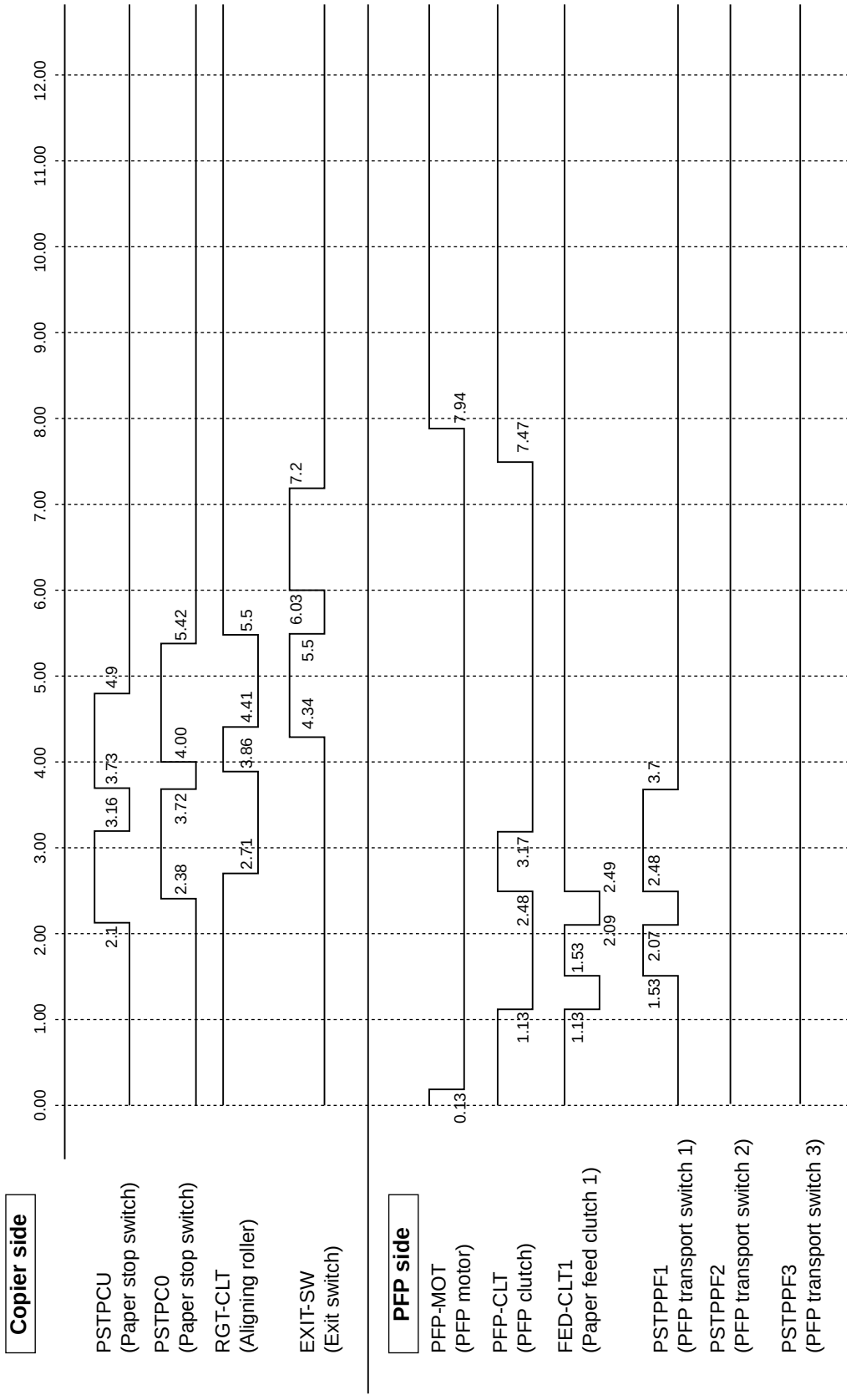


**PWA-F-PFP-766**

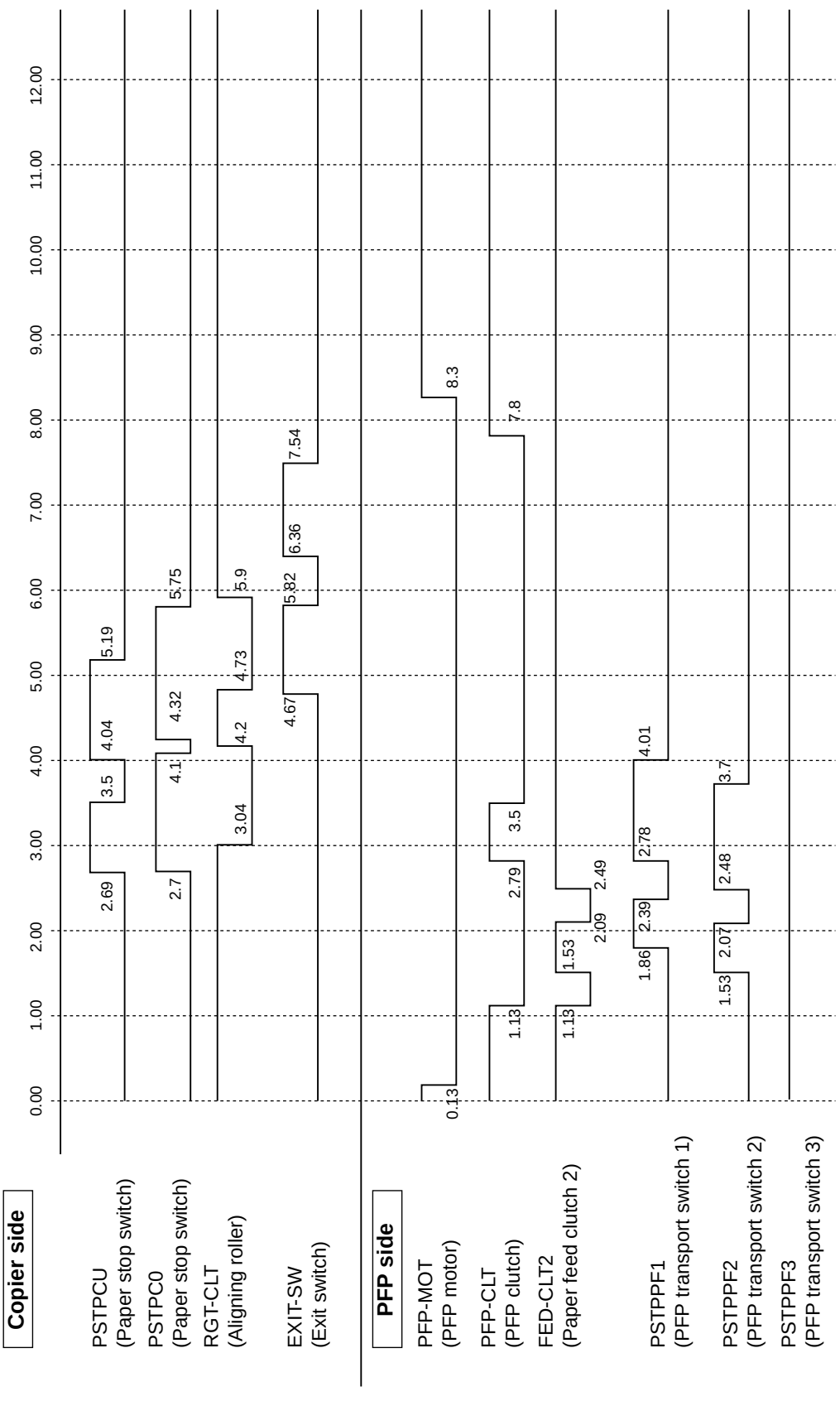
| Symbol | Rating | Number of parts |
|---|---|---|
| IC1, 5, 8 | MC74HC244AN | 3 |
| IC7, 9 | MC74HC273AN | 2 |
| IC2 | TA8428K (S) | 1 |
| IC6 | TD62308AP (J) | 1 |
| D1–4 | D-1S1588 | 4 |
| R5–12, 22–27, 32, 34, 38–40, 59 | 22KΩ 1/4W | 20 |
| R1–4, 13–21, 28–31, 35–37, 41–57, 60 | 4.7KΩ 1/4W | 38 |
| R58 | 10KΩ 1/2W | 1 |
| C1, 2, 3 | 10μ/35V (electrolyte) | 3 |
| C4 | 47μ/50V (electrolyte) | 1 |
| C5 | 10μ/16V (electrolyte) | 1 |
| C6, 10, 12, 13, 15, 16 | 0.1μ/12V | 6 |
| C7–9, 11 | 10μ/35V | 4 |
| C14 | 022μ/50V | 1 |
| JP10, 16, 18, 20–22, 29, 30, 31, 33–34, 37–38, 43–49, 50–55, 57–59, 60, 62, 64, 65, 67–69, 73–77, 79, 81 | 10mm JUMPER-WIRE | 43 |
| JP2–9, 11–15, 17, 23–28, 32, 35–36, 39, 40–42, 56, 61, 63, 71, 72, 78, 80, 82–86 | 20mm JUMPER-WIRE | 39 |
| J701 | Connector 28 pin | 1 |
| J702 | Connector 6 pin | 1 |
| J704 | Connector 8 pin | 1 |
| J705 | Connector 5 pin | 1 |
| J706, 708 | Connector 15 pin | 1 |
| J707 | Connector 15 pin | 1 |
| J709 | Connector 11 pin | 1 |

## 2.7 Timing Charts

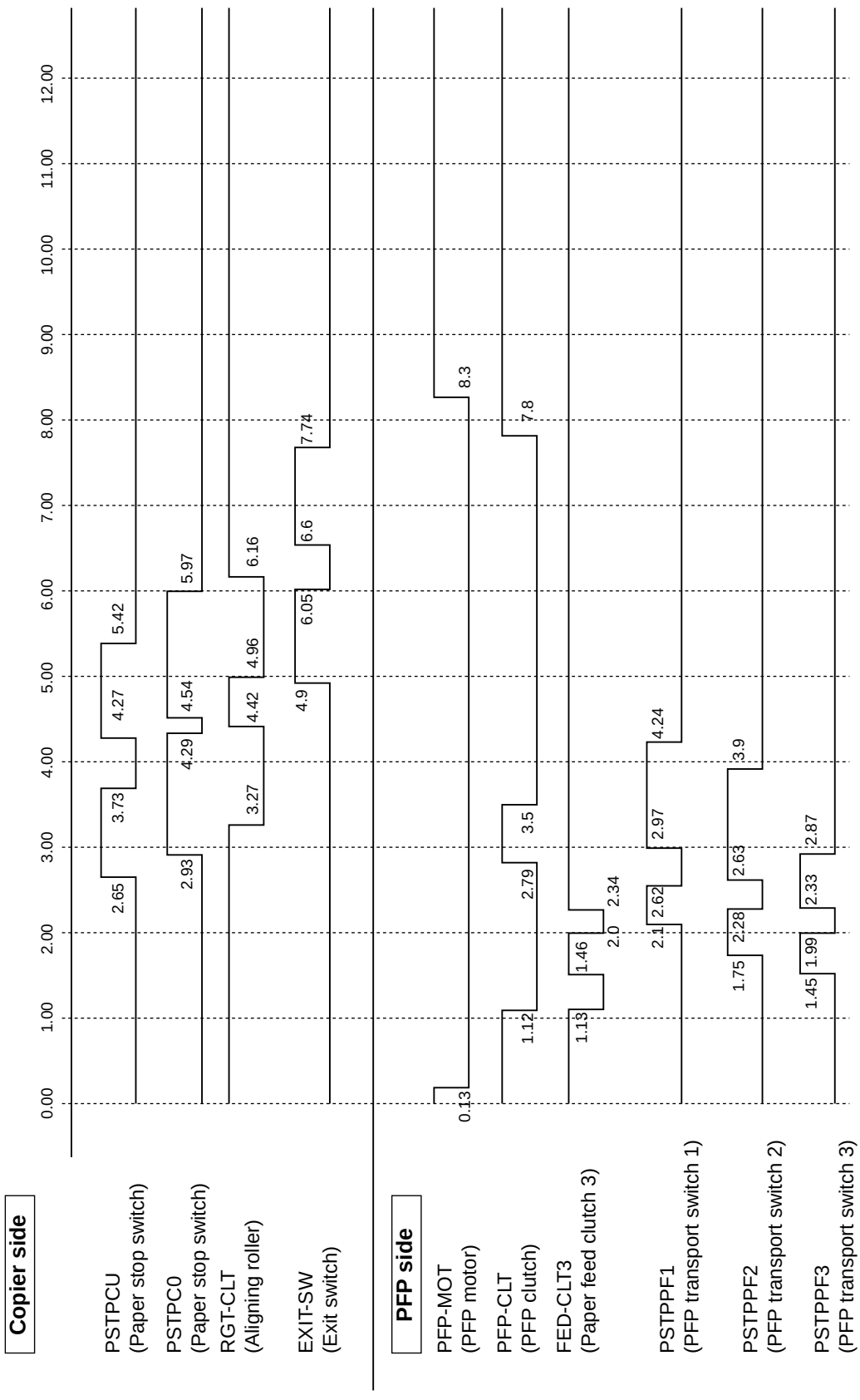
**Upper paper feed timing (A4 paper size, two sheets of copy paper)**



**Middle paper feed timing (A4 paper size, two sheets of copy paper)**



**Lower paper feeding timing (A4 paper size, two sheets of copy paper)**



# 3. GENERAL OPERATIONS

## 3.1 Operation Explanation

**[A] From power-on until standby status**

(1) When the power is turned on to the copier, power is also supplied to the paper feeder, the tray motors (M2), (M3), (M4) are set to ON and the trays at each level start to rise. When the trays are raised, the tray-up switches (S8), (S9), (S10) are turned on, and the tray motors (M2), (M3), (M4) are turned off, which halts the upward motion of the trays. At this point, if the empty switches (S11), (S12), (S13) are off (H) it is determined that paper is not present. If the switches (S11), (S12), (S13) are on (L), it is determined that paper is present, and the tray is held up until the cassette is drawn out.

(2) If the power is turned on when the cassette has been removed, the tray motor for that level does not come on. When the cassette is inserted in the slot, the tray is raised and the presence or absence of paper is determined.

(3) If either of the paper stop switches (S2), (S3), (S4) is ON (because there is paper in the paper path) when the power is turned on, it is determined that a paper jam has occurred and operation is not possible until the paper is removed.

**[B] Standby mode**

(1) After the paper supply is checked by raising and lowering the trays as described above, the standby mode is obtained.

(2) When the cassette is removed, the tray is lowered and it is inserted in the slot, it is raised to check the paper supply.

**[C] From the start to the end of copying**

(1) When the PRINT key is pressed, the main motor of the copier is tuned on. About 0.1 sec. later, PFP-MOT (M1) and PFP-CLT (CL1) are turned on to drive the transport rollers.

(2) When the copier determines that it is ready for feeding paper, it turns on the paper feed clutch (FD3–5 CLT (CL3–5)) of the selected paper feeding stage. This drives the pick-up roller and feed roller to feed paper from the tray.

(3) When the leading edge of the paper turns on the paper stop switch (PSTP3–5SW (S3–5)) located nearest to the selected paper feeding stage, the paper feed clutch (FD3–5CLT (CL3–5)) is turned off to stop feeding paper from the cassette.

(4) Thereafter, the paper is carried by the PFP transport rollers to the copier body. When the leading edge of the paper reaches PSTP3-SW (S3), if the trailing edge of the preceding paper still remains on the transport switch of the copier, PFP-CLT (CL1) is turned off to suspend the paper transport operation.

(5) When the trailing edge of the paper fed passes the paper stop switch (PSTP3–5SW (S3–5)) located nearest to the selected paper feeding stage, it is turned off, making the following sheet of paper ready to be fed. The above steps (2)–(4) are repeated for the number of copies selected.

(6) When copying has finished, the main motor of the copier is turned off along with PFP-MOT (M1) and PFP-CLT (CL1) to stop the transport rollers.

## 3.2 Malfunction Detection

**[A] Jam detection**

(1) There is a paper jam (E14–E16) in the paper feeder when either of the following malfunctions occurs.
   1) The paper stop switches (S2), (S3) and (S4) do not come on within 0.8 seconds after the paper feed starts.
   2) The leading edge of the paper has not passed between the paper stop switches in the paper path within a fixed period of time.

(2) The paper jam is cleared by opening the paper feeder door, removing all paper in the paper path and closing the door. If either of the paper stop switches (S2), (S3) and (S4) is ON when the door is closed, it is determined that there is still paper in the paper path and the paper jam status is not cancelled.

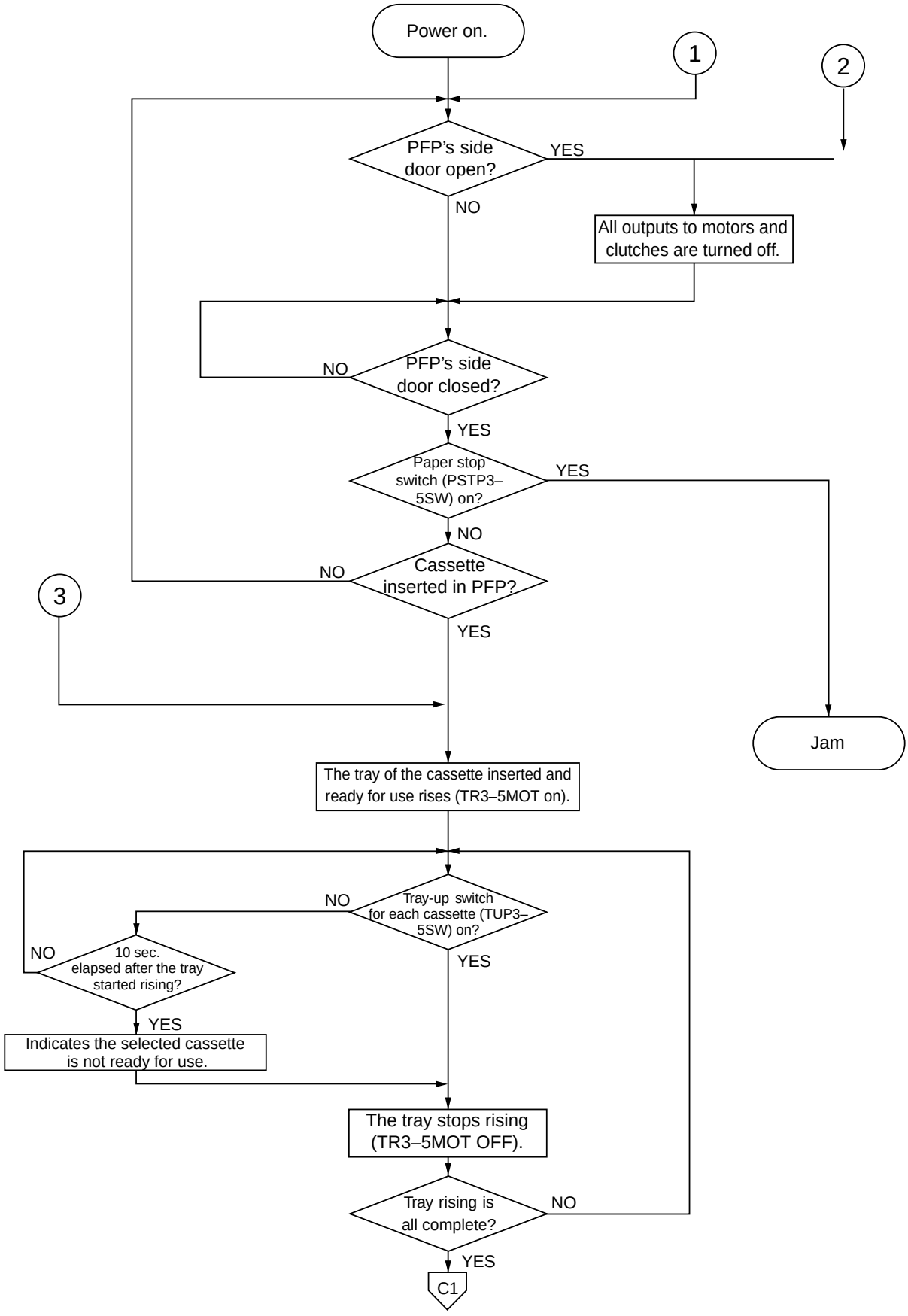
(3) When a jam occurs in the paper feeder during a multiple copy run, the sheet of paper that was fed before the jam is copied normally.

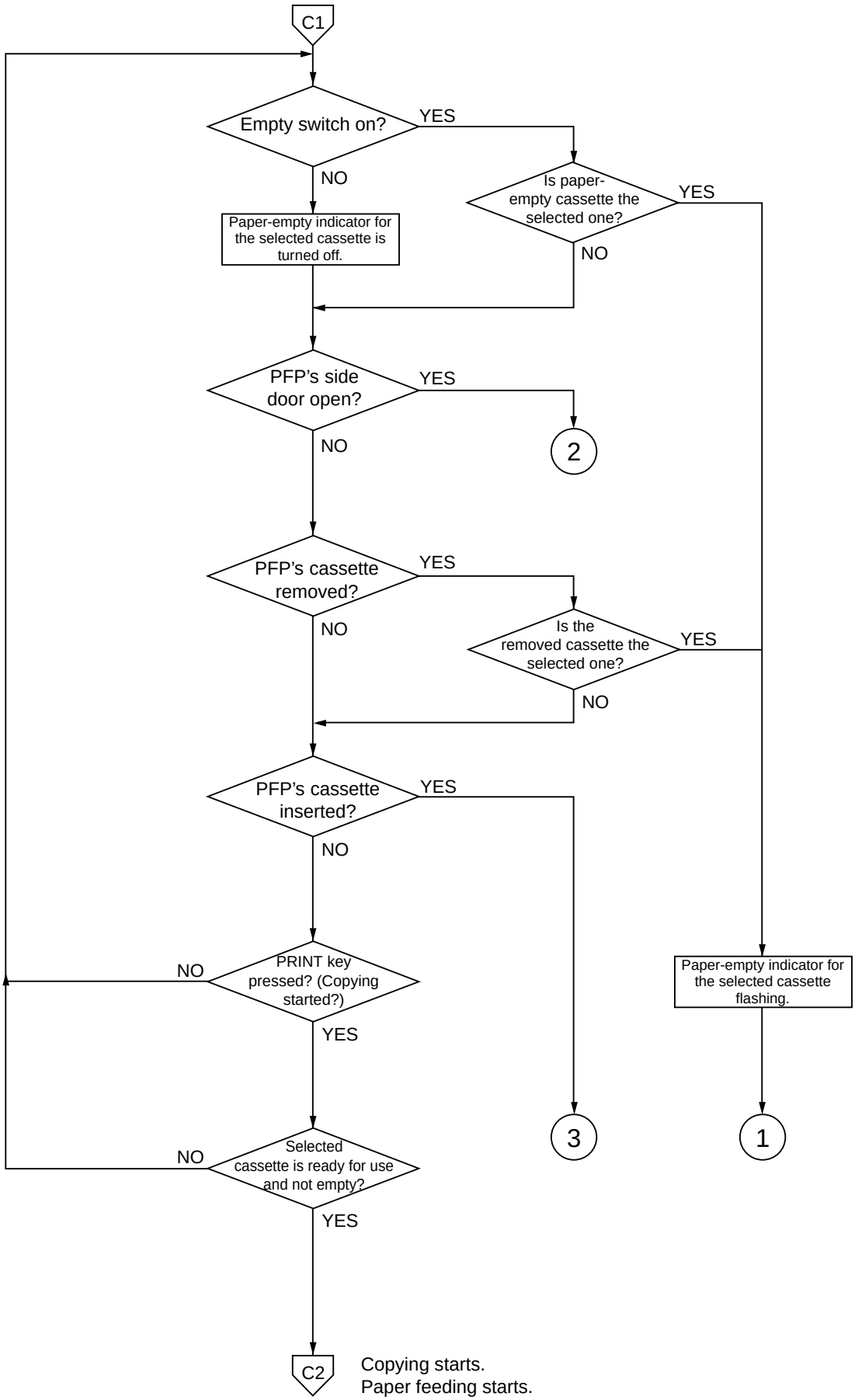
**[B] Empty state**

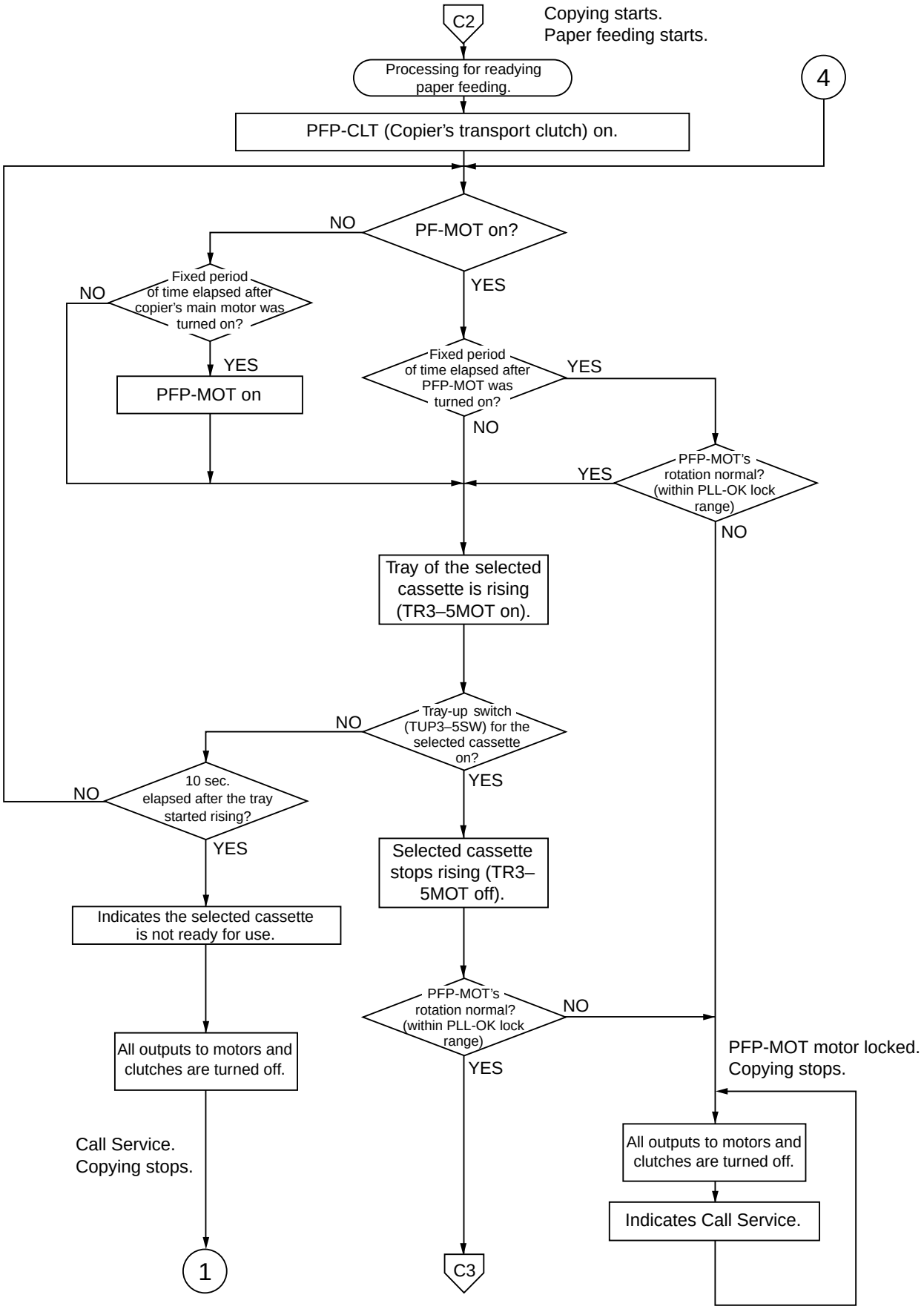
(1) The tray is raised when the power is tuned ON, when the cassette is inserted or removed. If the tray-up switches (S8), (S9) and (S10) do not come on within ten seconds after the tray starts to rise, the tray motor turns off and the cassette empty state occurs.

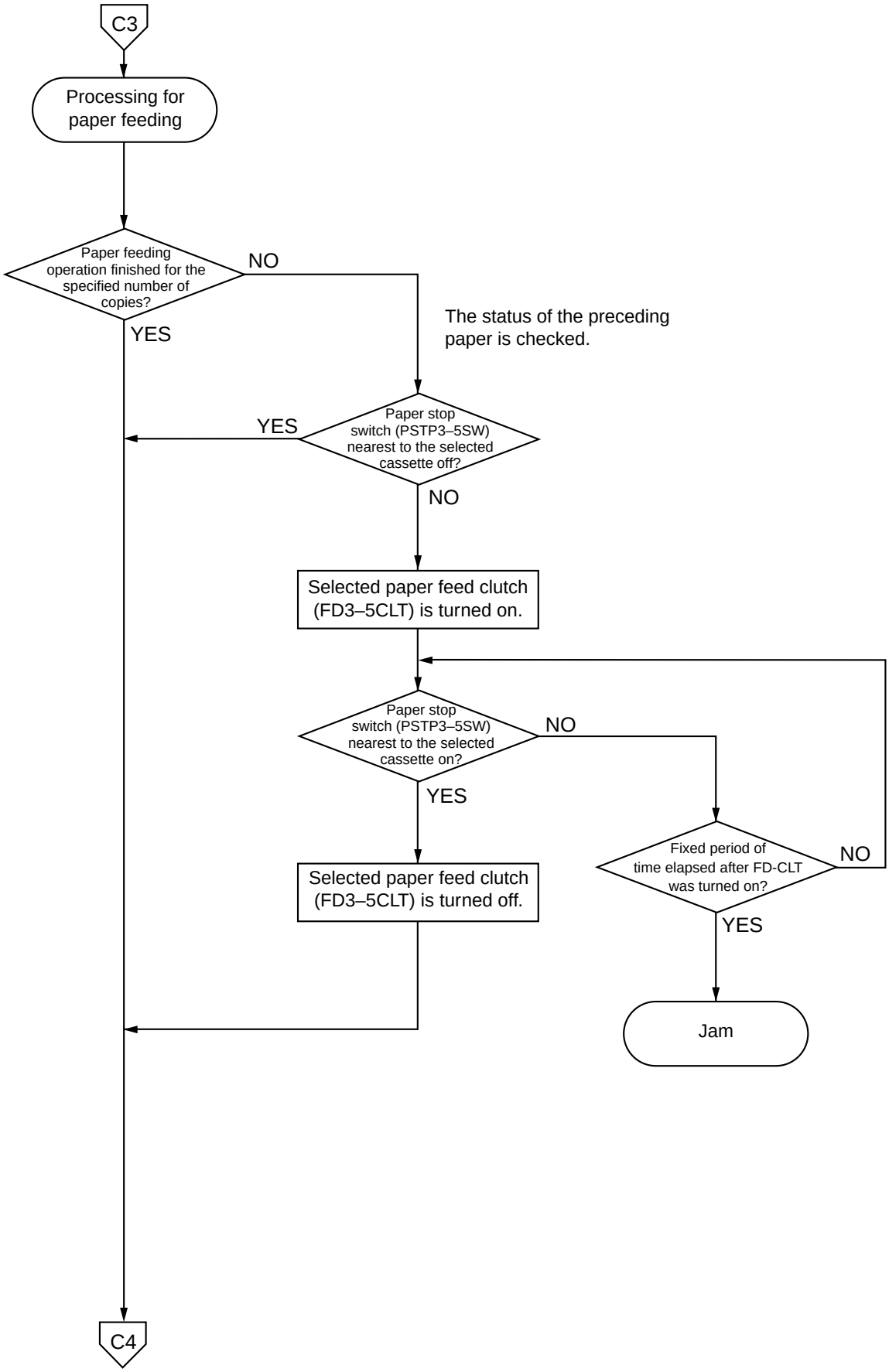
(2) The power must be turned off to cancel this state. (This state cannot be canceled by opening and closing the door or by removing and inserting the cassette.)

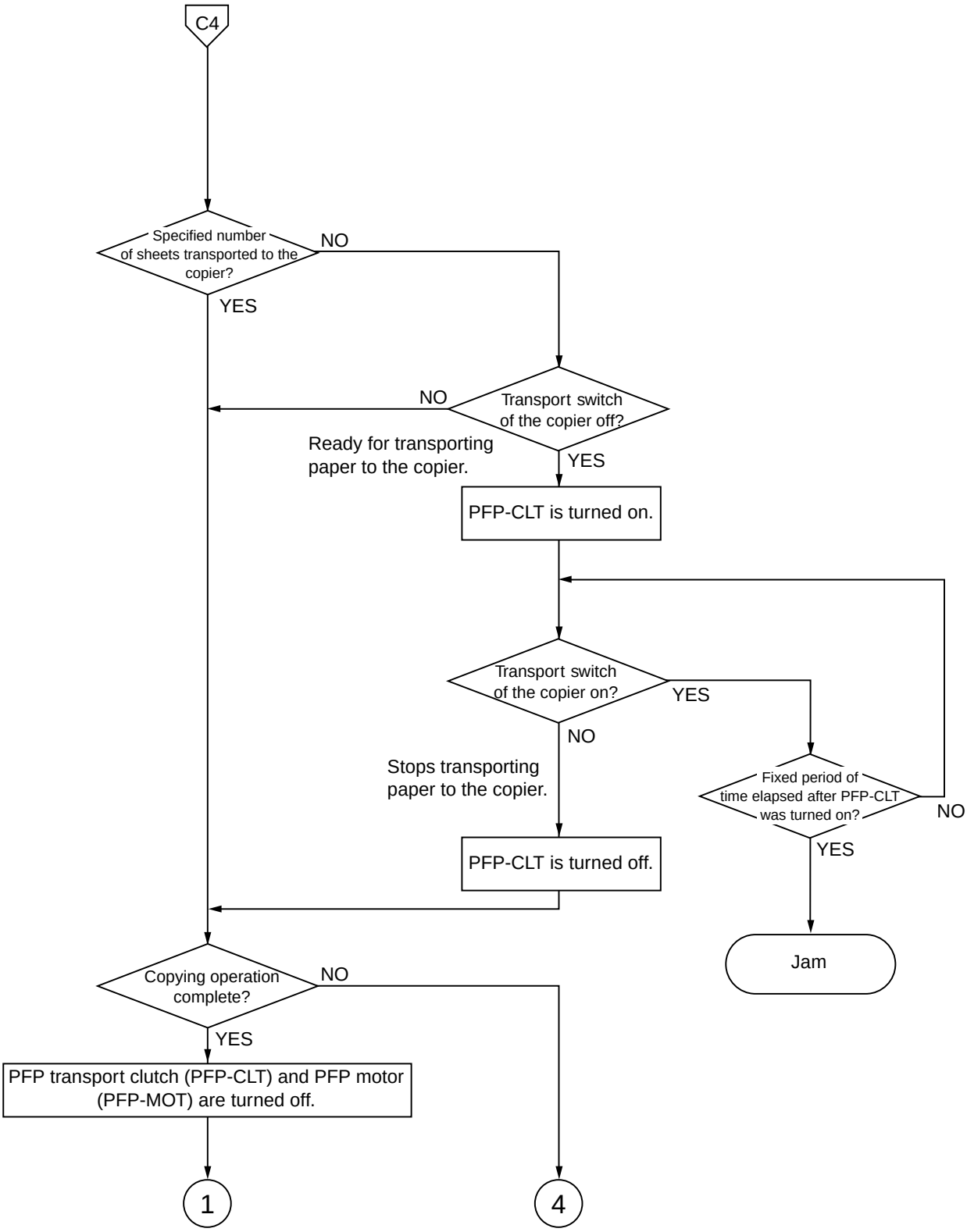
## 3.3 Flowcharts

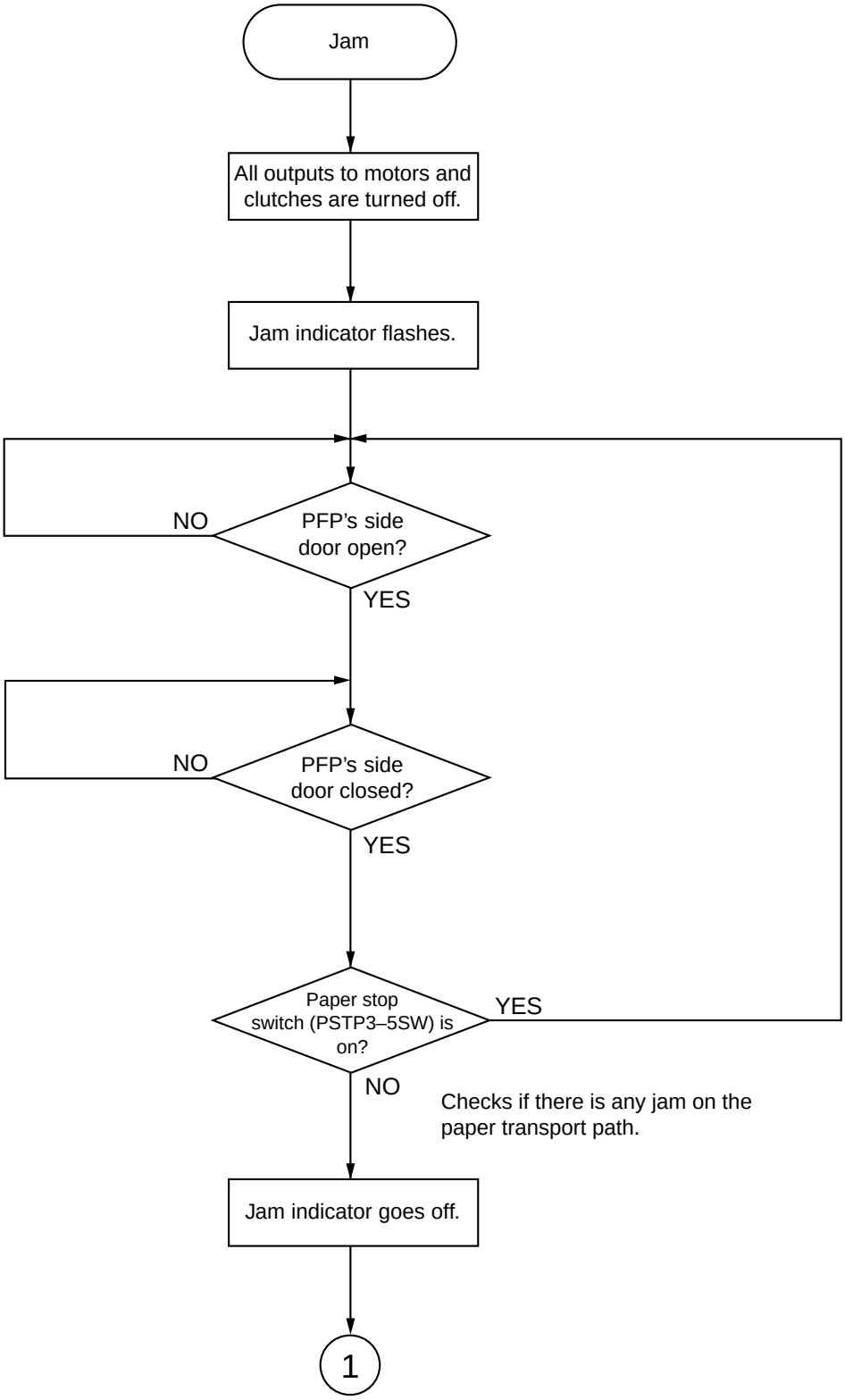



C1
Empty switch on?
YES
NO
Is paper-empty cassette the selected one?
YES
NO
Paper-empty indicator for the selected cassette is turned off.
PFP's side door open?
YES
NO
2
PFP's cassette removed?
YES
NO
Is the removed cassette the selected one?
YES
NO
PFP's cassette inserted?
YES
NO
PRINT key pressed? (Copying started?)
NO
YES
Paper-empty indicator for the selected cassette flashing.
3
1
Selected cassette is ready for use and not empty?
NO
YES
C2
Copying starts.
Paper feeding starts.


C2
Copying starts.
Paper feeding starts.
Processing for readying paper feeding.
4
PFP-CLT (Copier's transport clutch) on.
PF-MOT on?
NO
YES
Fixed period of time elapsed after copier's main motor was turned on?
NO
YES
PFP-MOT on
Fixed period of time elapsed after PFP-MOT was turned on?
YES
NO
PFP-MOT's rotation normal? (within PLL-OK lock range)
YES
NO
Tray of the selected cassette is rising (TR3–5MOT on).
Tray-up switch (TUP3–5SW) for the selected cassette on?
NO
YES
10 sec. elapsed after the tray started rising?
NO
YES
Selected cassette stops rising (TR3–5MOT off).
Indicates the selected cassette is not ready for use.
PFP-MOT's rotation normal? (within PLL-OK lock range)
NO
YES
All outputs to motors and clutches are turned off.
PFP-MOT motor locked.
Copying stops.
Call Service.
Copying stops.
All outputs to motors and clutches are turned off.
Indicates Call Service.
1
C3


C3
Processing for paper feeding
Paper feeding operation finished for the specified number of copies?
NO
YES
The status of the preceding paper is checked.
Paper stop switch (PSTP3–5SW) nearest to the selected cassette off?
YES
NO
Selected paper feed clutch (FD3–5CLT) is turned on.
Paper stop switch (PSTP3–5SW) nearest to the selected cassette on?
NO
YES
Fixed period of time elapsed after FD-CLT was turned on?
NO
YES
Selected paper feed clutch (FD3–5CLT) is turned off.
Jam
C4


C4
Specified number of sheets transported to the copier?
NO
YES
NO
Transport switch of the copier off?
Ready for transporting paper to the copier.
YES
PFP-CLT is turned on.
Transport switch of the copier on?
YES
NO
Stops transporting paper to the copier.
Fixed period of time elapsed after PFP-CLT was turned on?
NO
YES
PFP-CLT is turned off.
Jam
Copying operation complete?
NO
YES
PFP transport clutch (PFP-CLT) and PFP motor (PFP-MOT) are turned off.
1
4


Jam
All outputs to motors and clutches are turned off.
Jam indicator flashes.
NO
PFP's side door open?
YES
NO
PFP's side door closed?
YES
Paper stop switch (PSTP3–5SW) is on?
YES
NO
Checks if there is any jam on the paper transport path.
Jam indicator goes off.
1

# 4. PAPER FEED/DRIVE SYSTEM

## 4.1 Configuration and Drive

The Multi paper feeder (PFP) consists mainly of the cassettes, the pick-up rollers for the cassette paper feed unit, paper feed rollers, separation rollers and transport rollers and their drive mechanisms.

- Feed Motor System

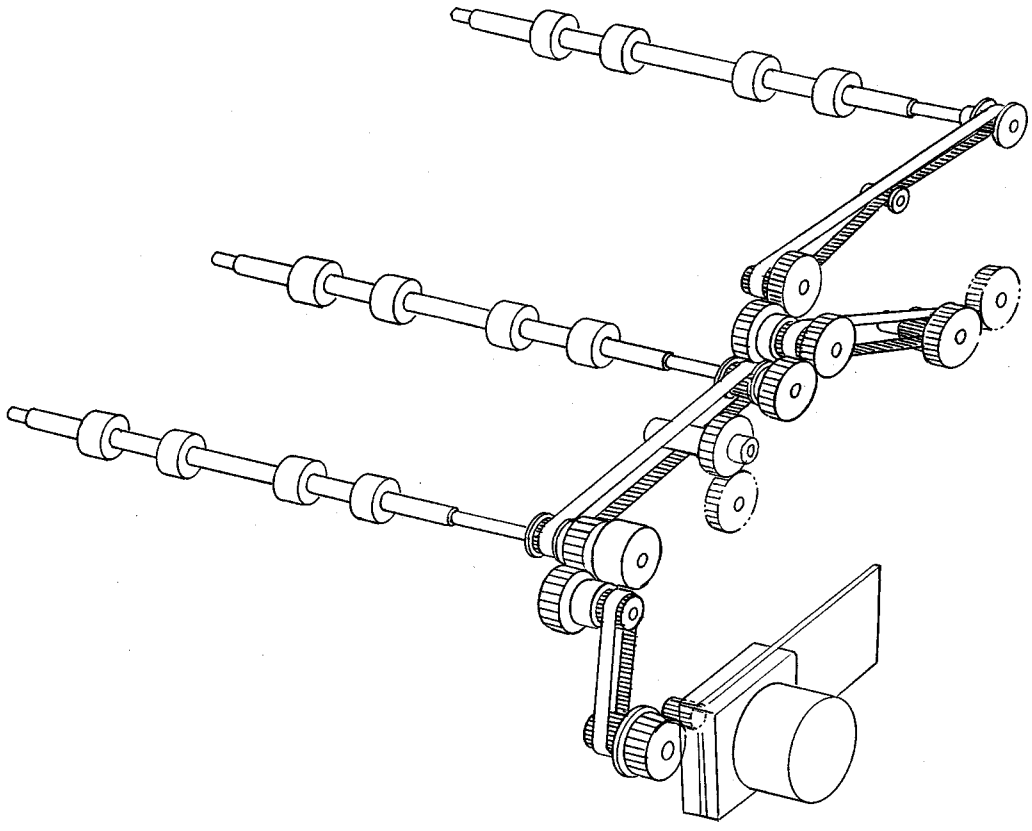
  The Pick-up rollers, paper feed rollers, separation rollers and transport rollers of the cassette paper feed unit are driven by the pedestal motor.

  After the clutch of each stage, the driving power is transmitted in the same way as for the 2060/2860/2870.

- Tray-up Motor System

  This system raises and lowers the trays.

  Same as for the 2060/2860/2870.

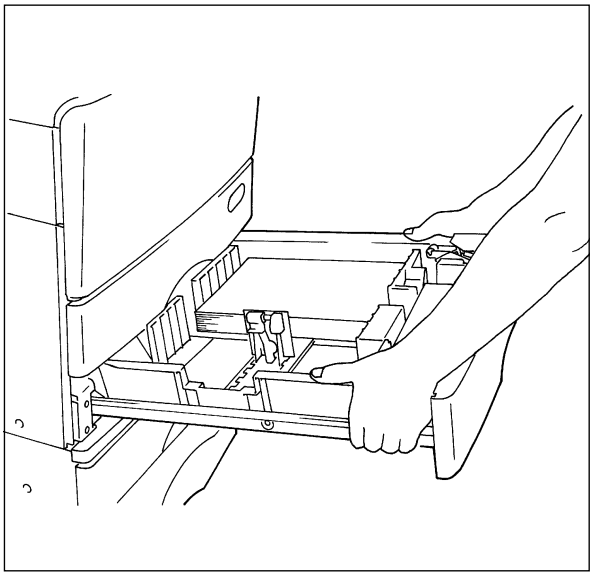


# 5. DISASSEMBLING AND REASSEMBLING VARIOUS PARTS

## 5.1 Removing the Cassettes and Covers

**[A] Cassettes**

(1) Pull out the cassette fully and while lifting the cassette, take it out.

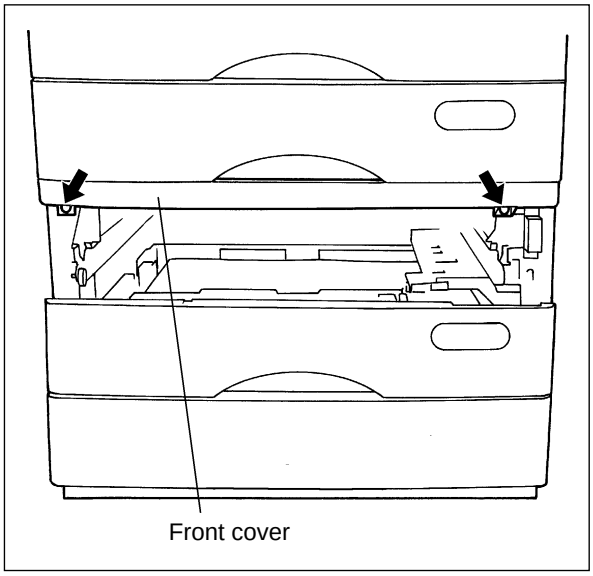


**[B] Front cover**

(1) Pull out the upper cassette.

(2) Remove the two screws fastening the front cover.

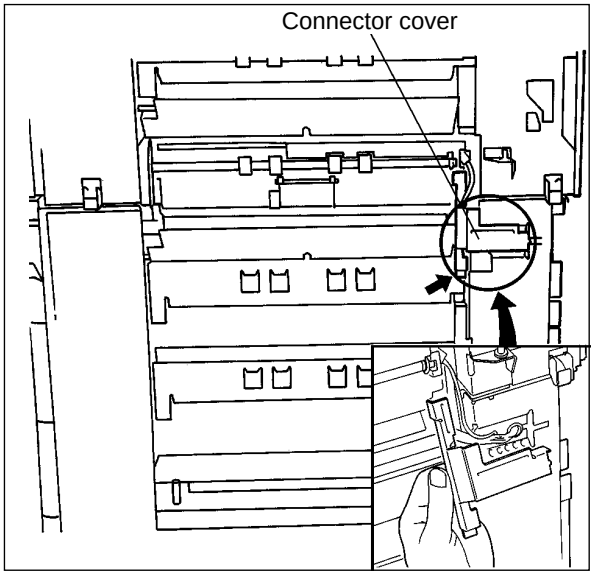
(3) Remove the front cover.




**[C] Connector cover**

(1) Open the side covers on the right side of the copier and the paper feed pedestal, respectively.

(2) Remove the connector cover (one fastening screw).



**[D] Rear cover**

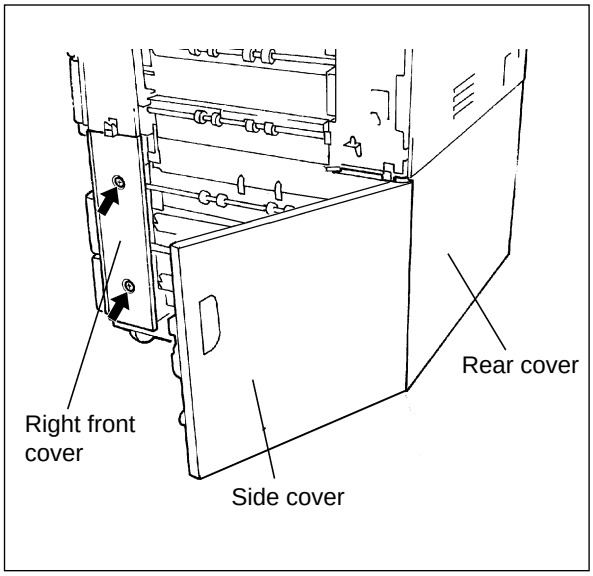
(1) Remove the two upper screws fastening the rear cover and loosen the two lower screws.

(2) Remove the rear cover.

**[E] Right front cover**

(1) Open the side cover.

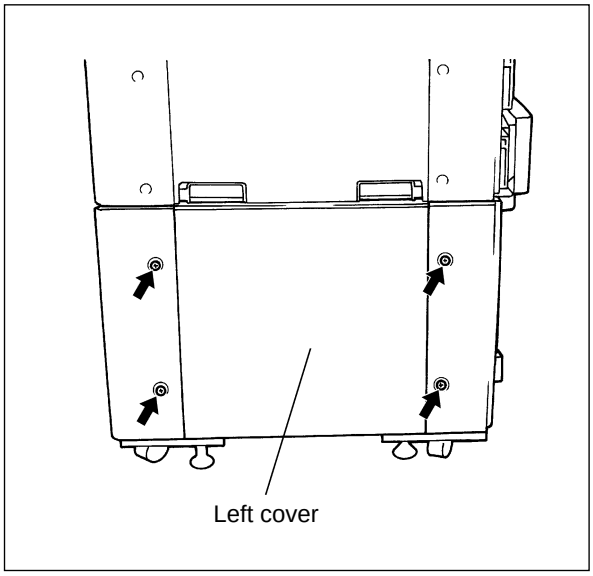
(2) Remove the right front cover (two fastening screws).




**[F] Left cover**

(1) Remove the rear cover.

(2) Remove the left cover (four fastening screws).



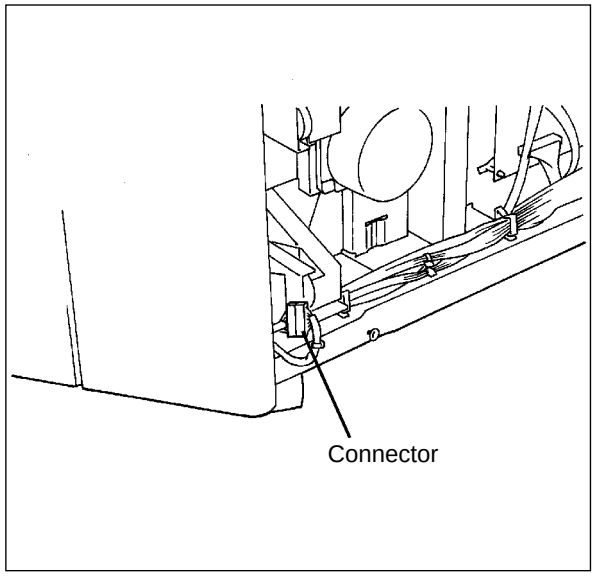


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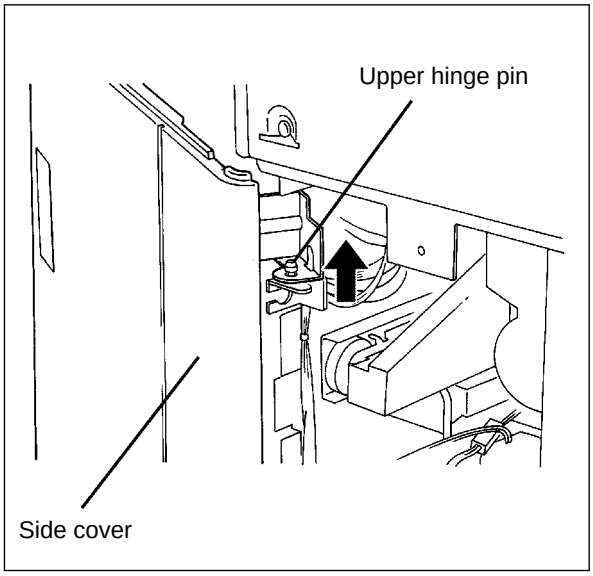
**[G] Side cover**

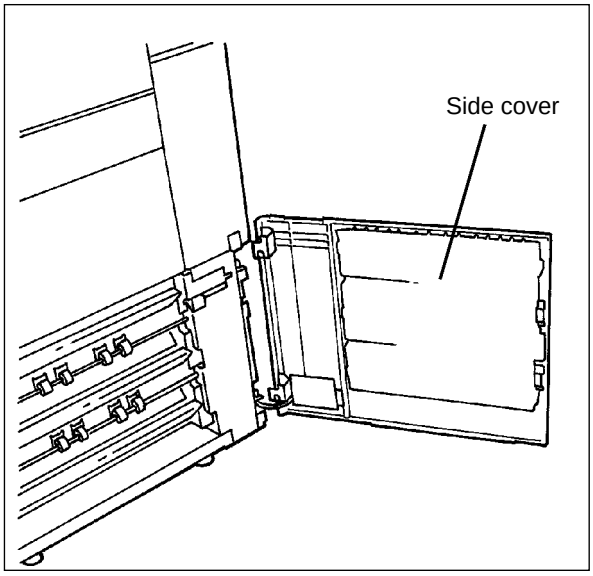
(1) Remove the rear cover.

(2) From the PC board, pull out the connector which is wired to the side cover.



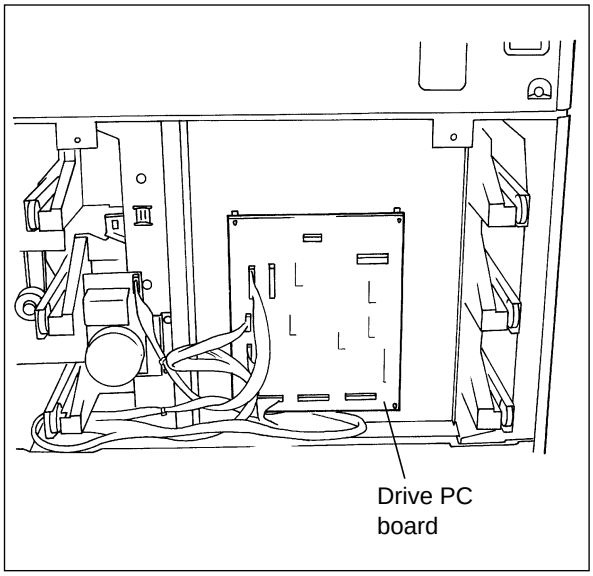

(3) Open the side cover fully and remove it from the hinge pins.



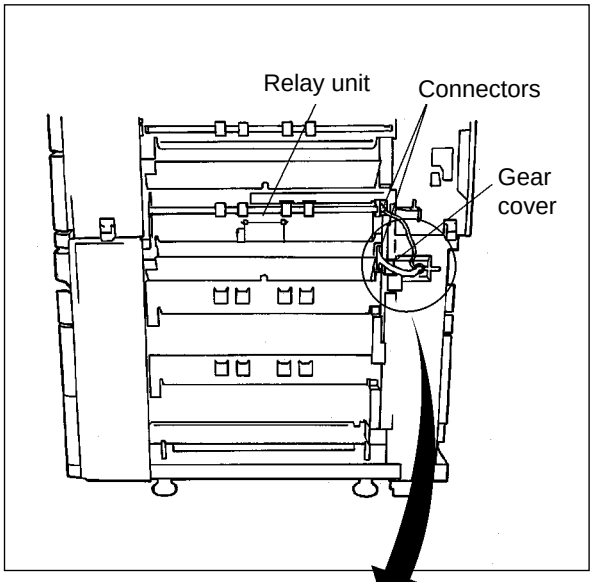
## 5.2 PC Boards

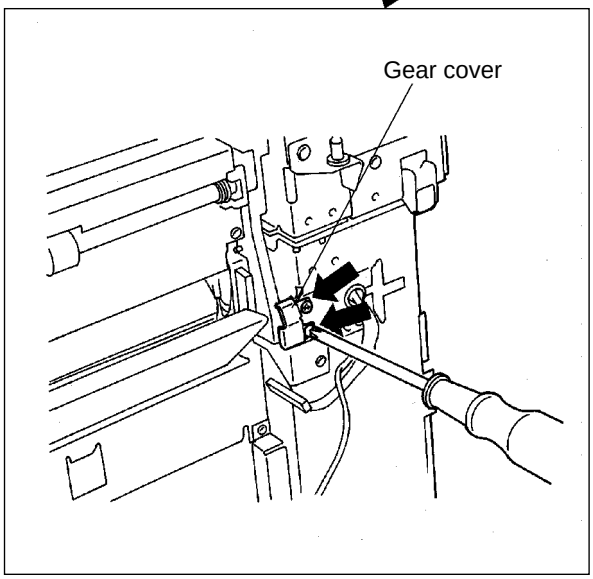
(1) Remove the rear cover.
(2) Disconnect a total of eight connectors: J701, J702, J704, J705, J706, J707, J708, J709
(3) Remove the PC board from its four lock supports.




## 5.3 Relay Unit

(1) Open the side covers on the right side of the copier and the paper feed pedestal, respectively.
(2) Remove the connector cover (one screw).
(3) Disconnect the connector (1pc.).
(4) Remove the gear cover (two screws).

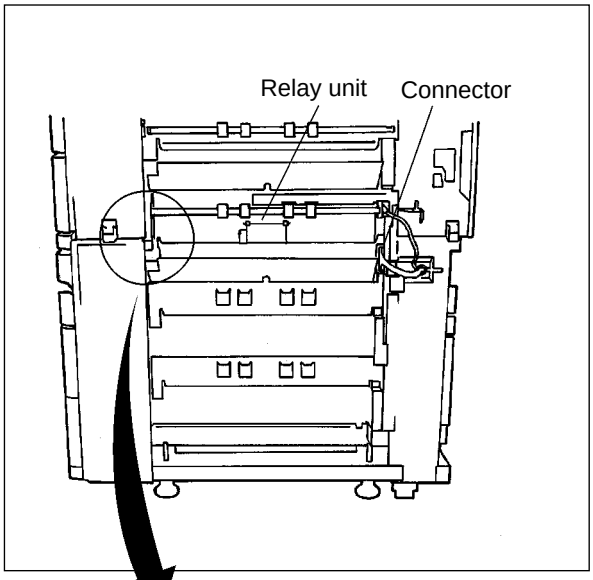


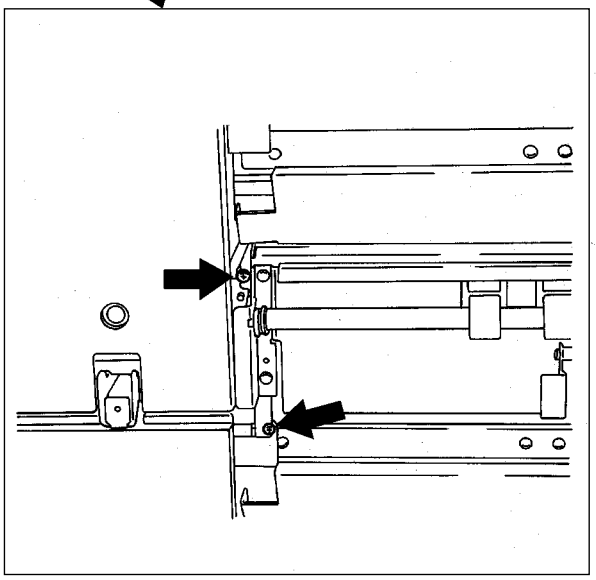



(5) Disconnect the connector (1 pc.).

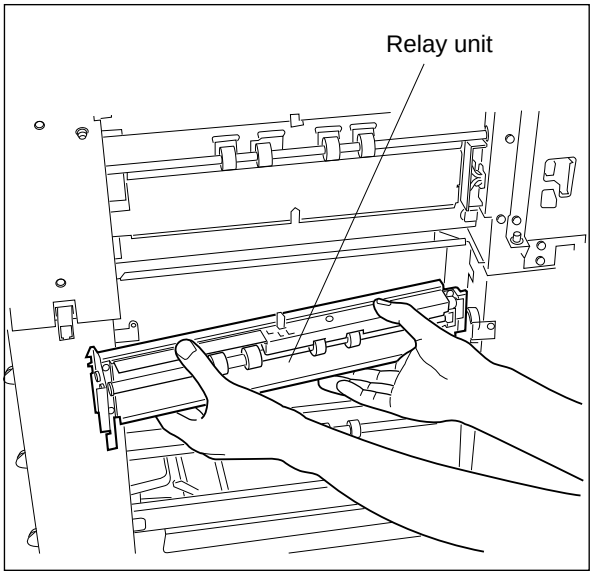
(6) Remove the two screws fixing the relay unit.

**Note:** Be careful not to remove the wrong screws, otherwise, a problem may occur.

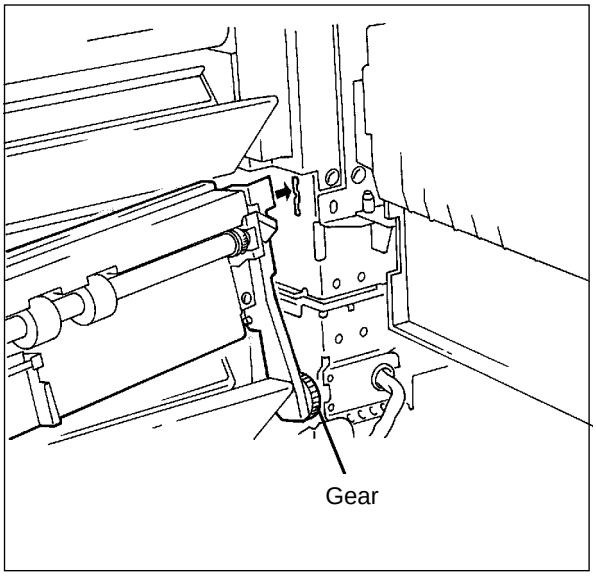


(7) Take out the relay unit.



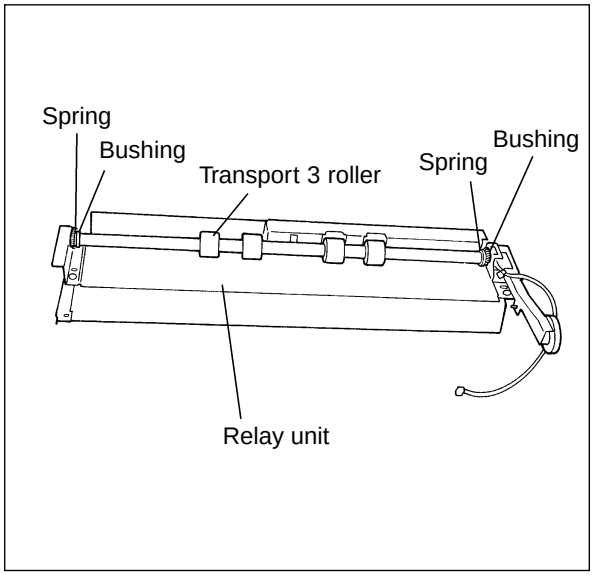
**Note:** When reinstalling the relay unit, make the gear of the relay unit mesh with that on the copier. In addition, fit the projection of the relay unit into the groove in the copier and fasten the relay unit with screws.

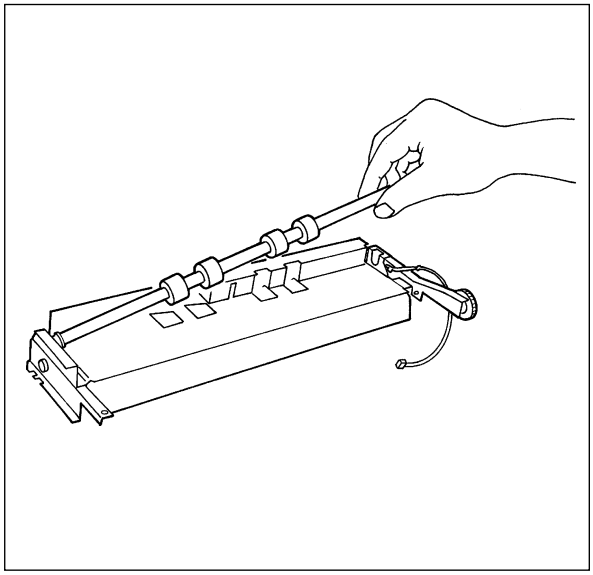



**[A] Transport 3 roller (plastic roller)**

(1) Take out the relay unit.

(2) Remove the springs and bushings from the front and rear sides of the roller, and take out the roller.



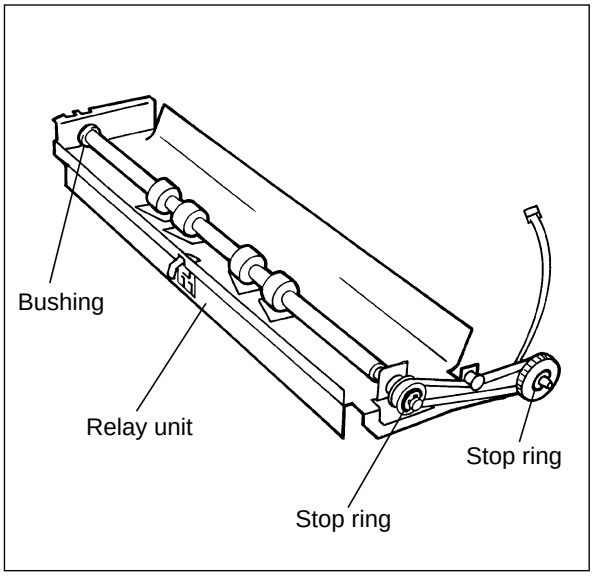



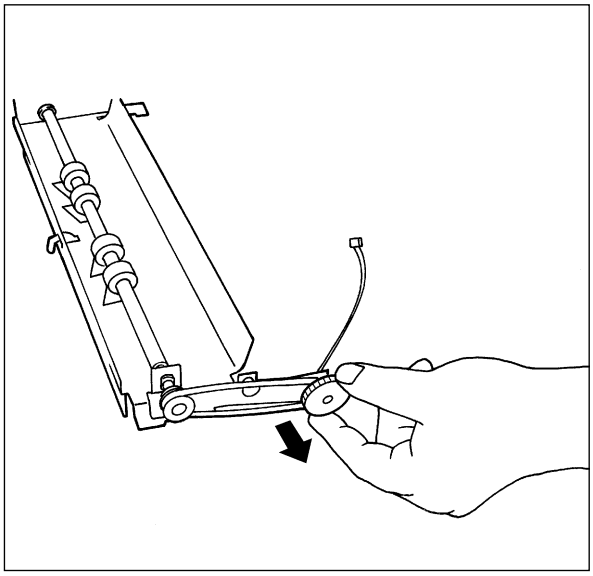
**[B] Transport 3 roller (rubber roller)**

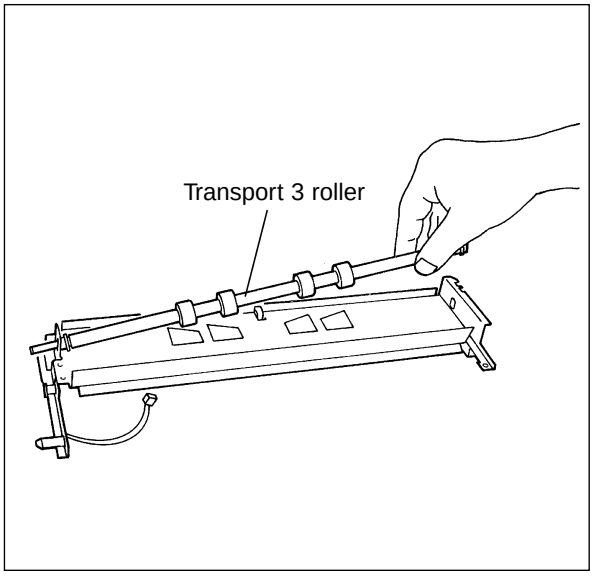
(1) Take out the relay unit.

(2) Remove the plastic roller.

(3) Remove the gears and bushings on the front and rear sides, and take out the roller.

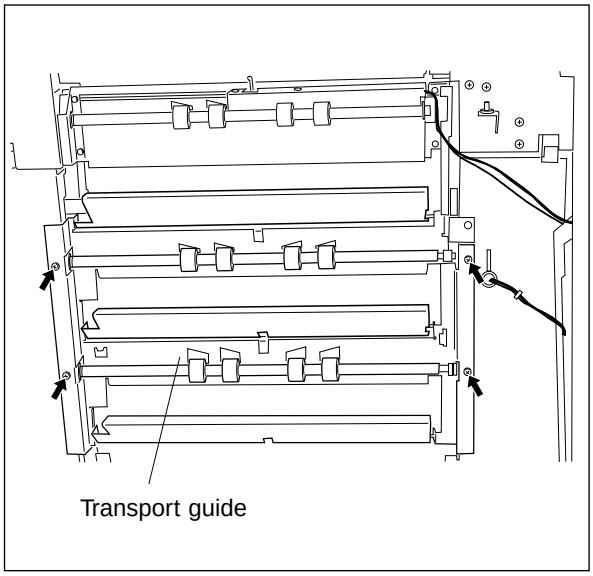


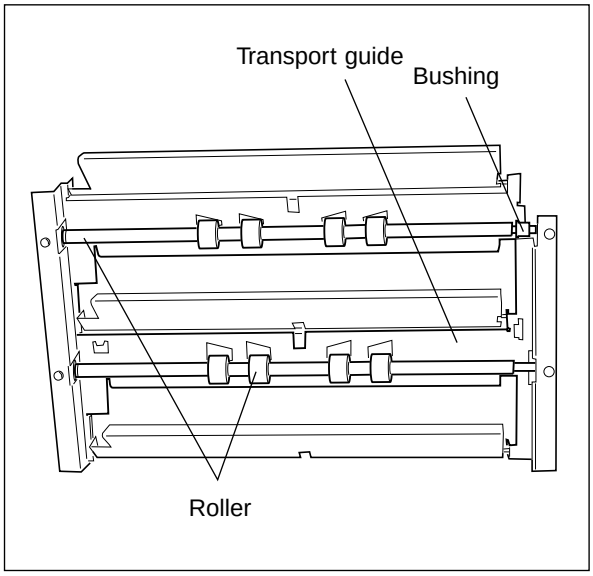





**[C] Transport 4 and 5 rollers (plastic rollers)**

(1) Remove the front right-cover.
(2) Open the side cover.
(3) Remove the transport guide (four screws).
(4) Remove the springs and bushings, and take out the roller.

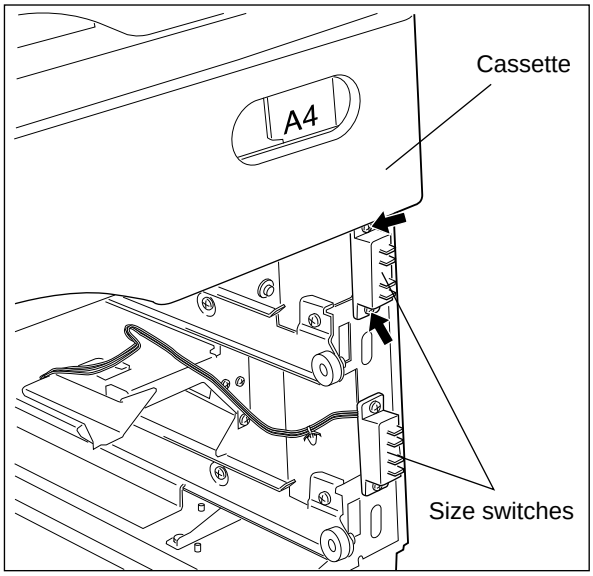


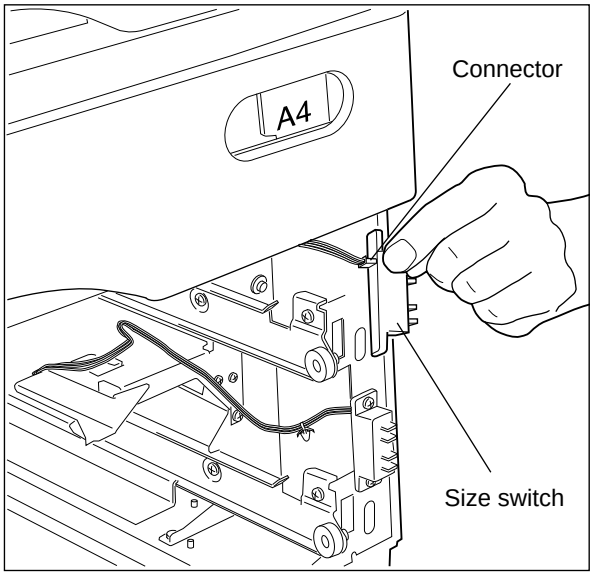



**[D] Size switches**

(1) Pull out one connector from each switch.

(2) Remove the size switches (two fastening screws for each switch).




## 5.4 Motors

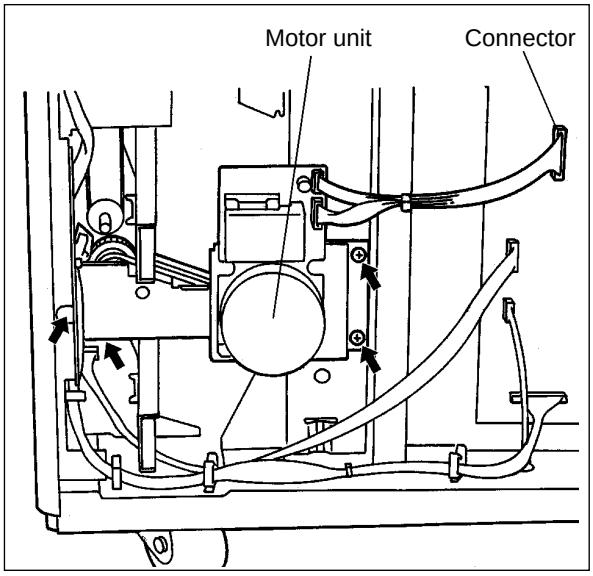
**[A] Pedestal motor**

(1) Remove the rear cover.

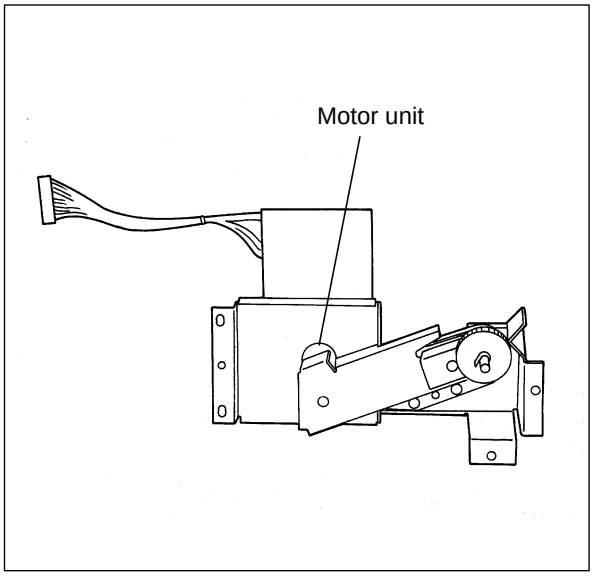
(2) Remove the clutch (refer to the page 5-11).

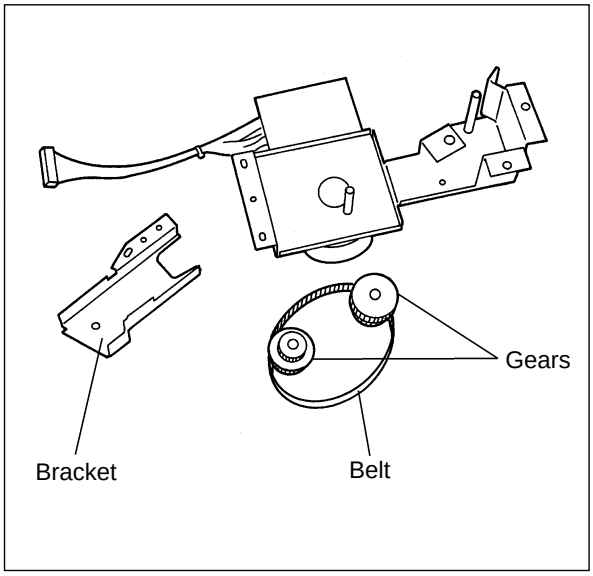
(3) Remove the motor unit (four screws).

(4) Disconnect the one connector from the PC board.



(5) Remove the bracket, gears and belt from the motor unit.



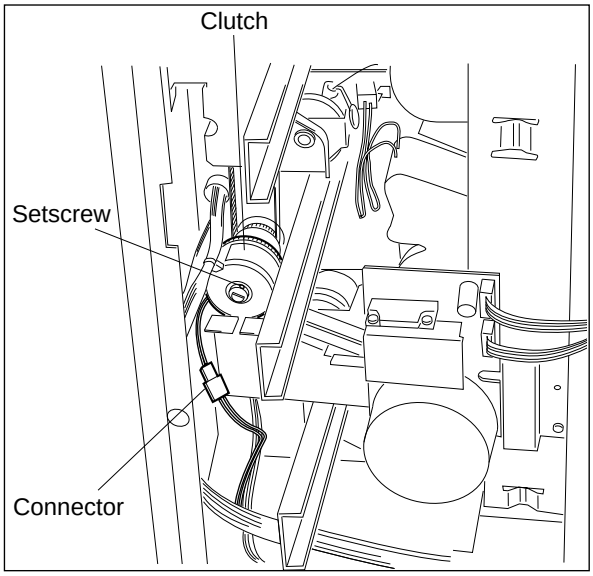

## 5.5 Paper Feeding/Separation/Pick-up Roller

The structure of the paper feeding unit, and its disassembly and reassembly procedures are the same as for the 2060/2860/2870.

## 5.6 Clutches

(1) Pull out the connectors (one from each clutch).

(2) Loosen the setscrews (one from each clutch) and pull the clutches out toward you.



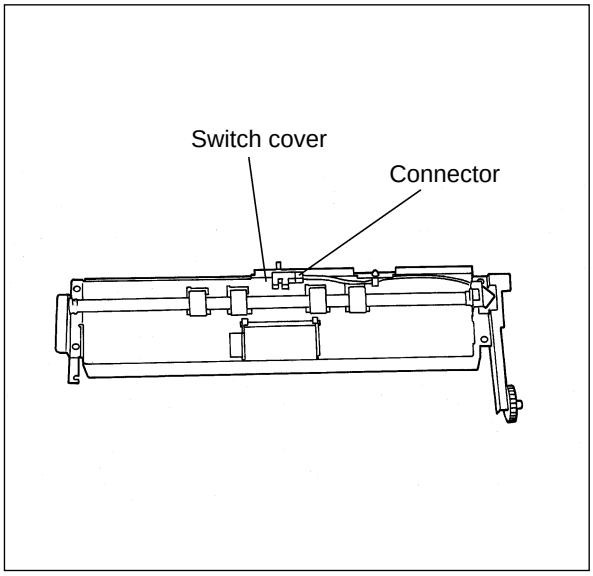

## 5.7 Switches

**[A] Paper stop 3 switch**

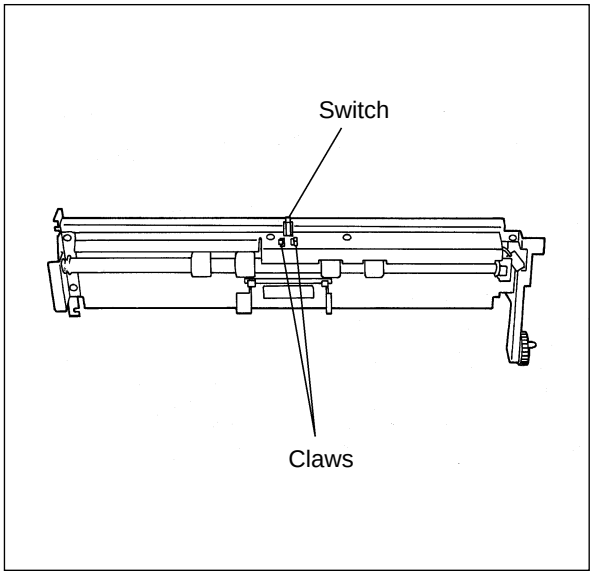
(1) Take out the relay unit.

(2) Remove the switch cover (two screws).

(3) Pull out the connector of the paper stop 3 switch.




(4) Unlatch the claws of the switch to remove it.

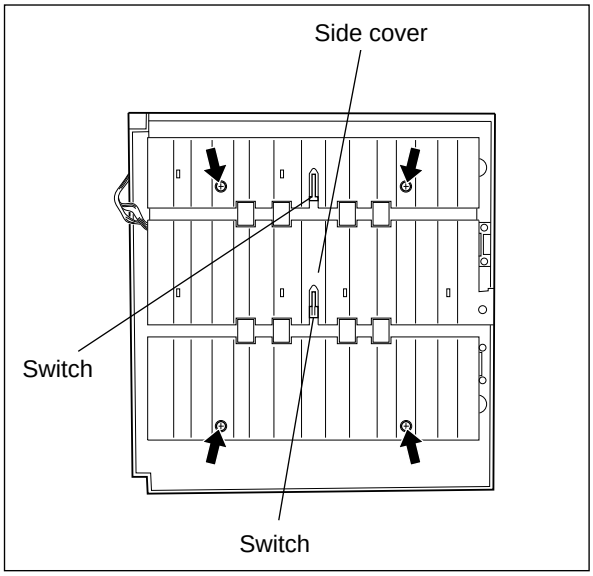


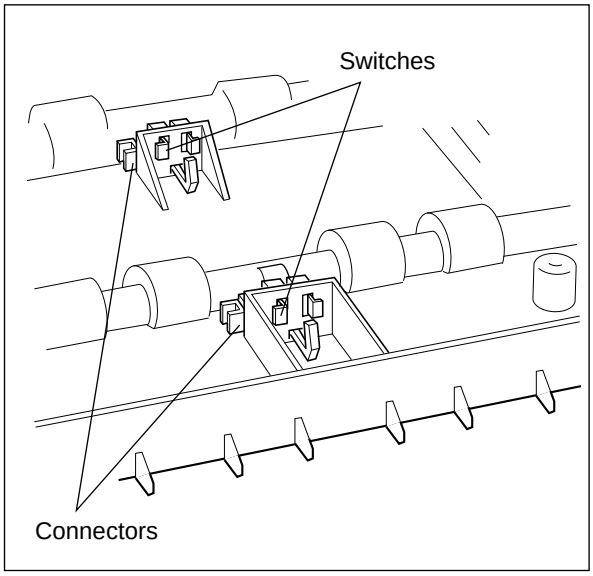
**[B] Paper stop 4 and 5 switches, and door switch**

(1) Remove the side cover.

(2) Remove the paper guide from the cover (four screws).

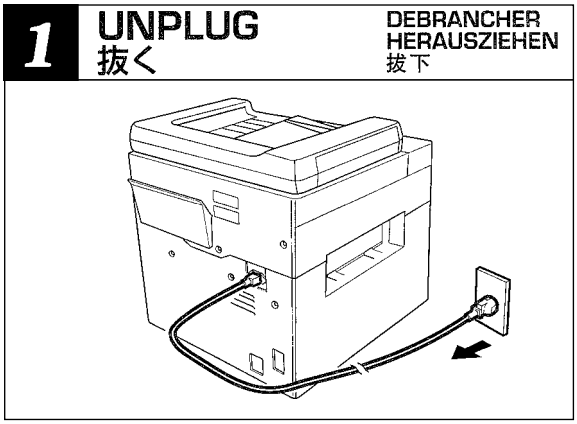
(3) Remove the switches installed to the back of the paper guide.



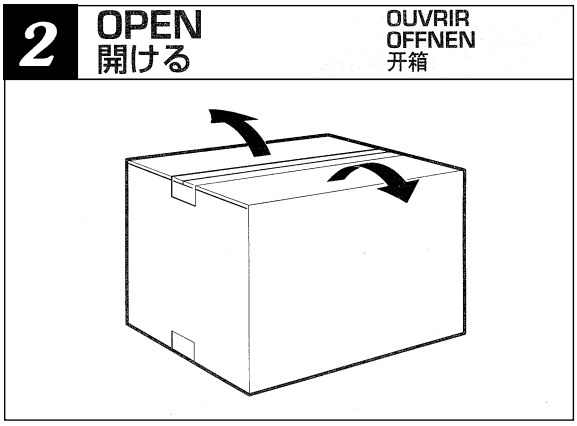


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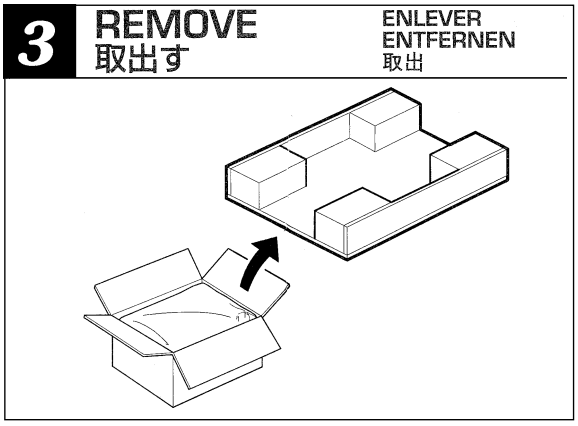

# 6. UNPACKING/SET UP PROCEDURE

When the installation, turn off the main switch of the copier and unplug the power cable from the outlet.

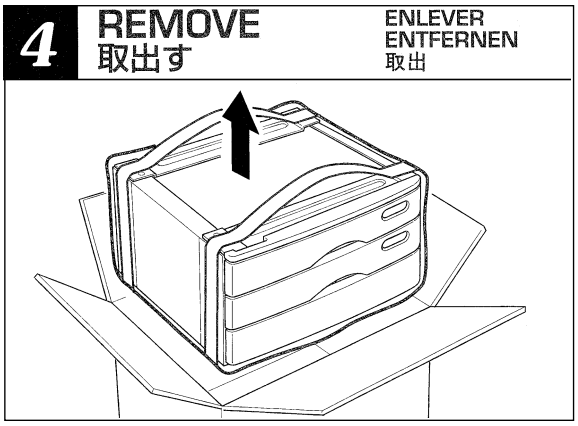



**Unpacking procedure**

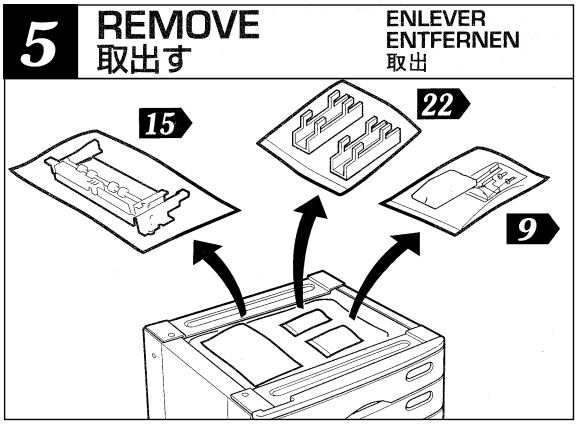
Open the carton box.



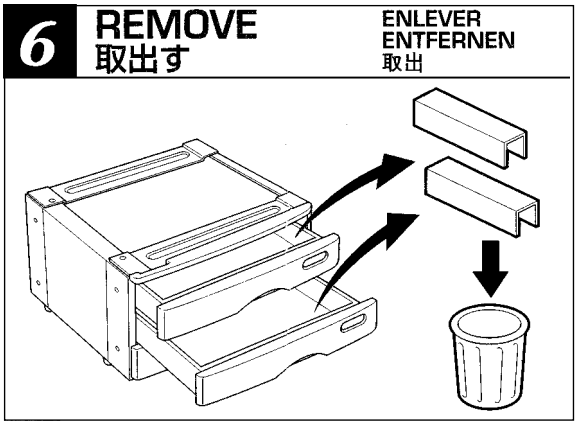

Remove the packing material.



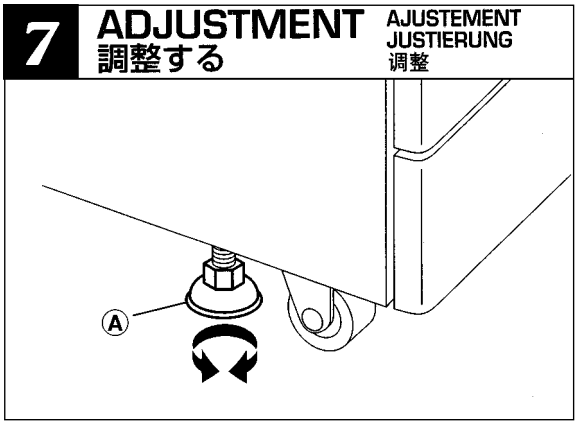

Remove the PFP unit.



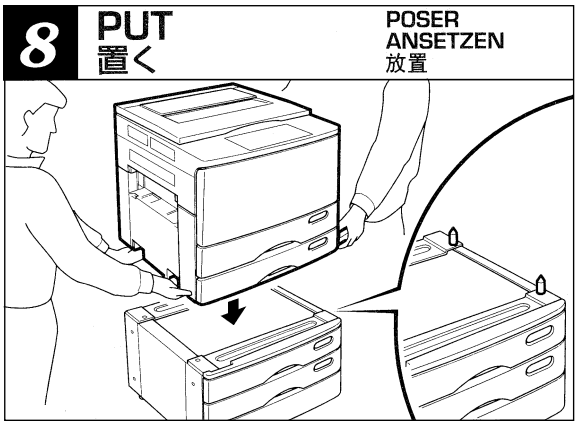

Remove the three accessory packages and other packing materials.




Remove the packing materials.



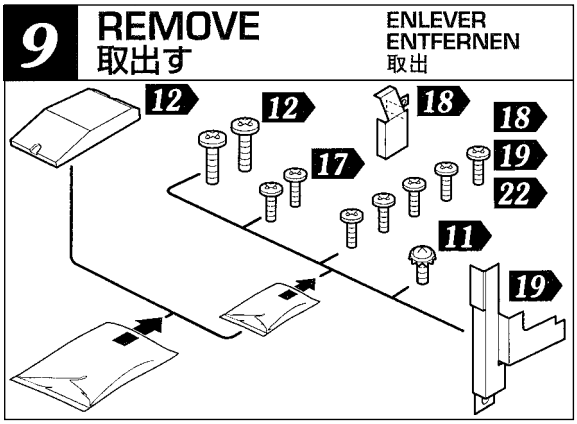

Adjust the four adjusters of the PFP Ⓐ so that the caster rollers are slightly away from the floor.
Check that the PFP is level.




Lift the copier with at least two people and place it slowly onto the PFP so that the positioning pins on the feed side of the PFP fit into the holes in the base frame of the copier.

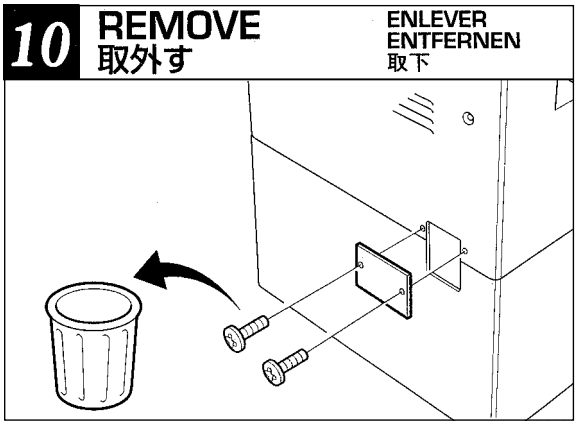
**Note:**

You can easily install the copier onto the PFP if you align the surfaces of the copier's front and right-side covers with the surface of those of the PFP when lowering the copier.

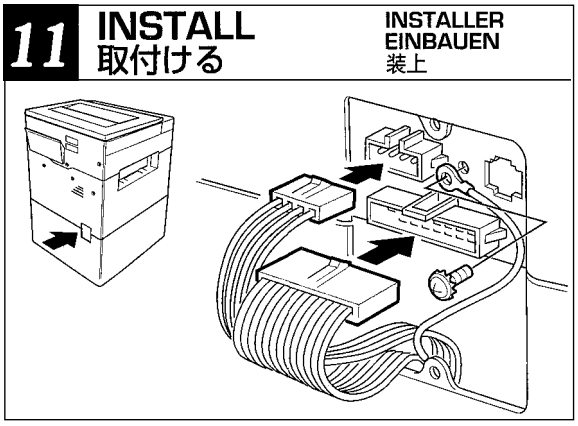



Remove the following parts from the accessory package.

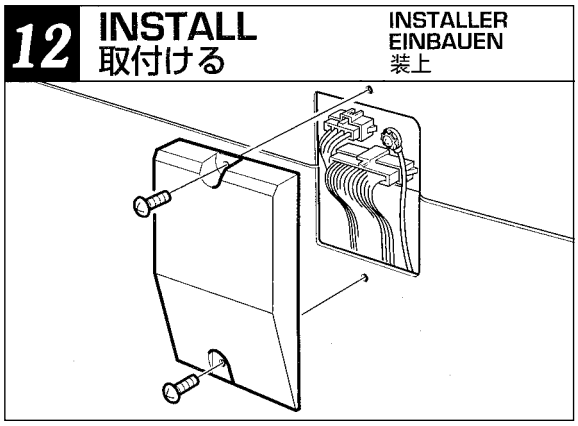
- 11 THPAN (M4 x 8, black) ..... 1 pc.
- 12 Connector-cover ..... 1 pc.
- 12 TBID screw (M4 x 8, silver) ..... 2 pcs.
- 17 BID screw (M3 x 6, silver) ..... 2 pcs.
- 18 Gear cover ..... 1 pc.
- 18 TBID screw (M3 x 6, black) ..... 2 pcs.
- 19 Wire harness cover ..... 1 pc.
- 19 TBID screw (M3 x 6, black) ..... 1 pc.
- 22 TBID screw (M3 x 6, black) ..... 2 pcs.



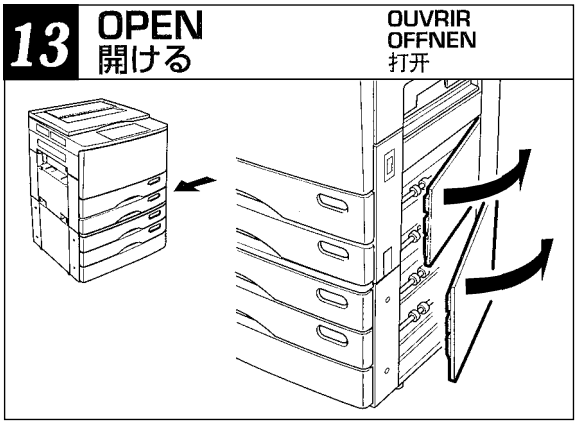

Remove the connector cover in copier.



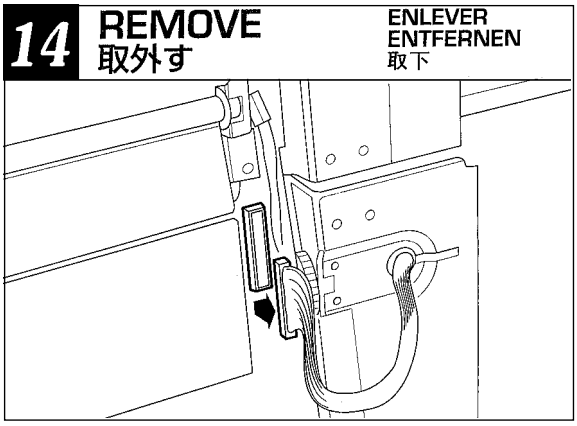

Insert the two connectors and attach the ground-wire harness with a screw (THPAN M4 x 8, black) taken out in 9.



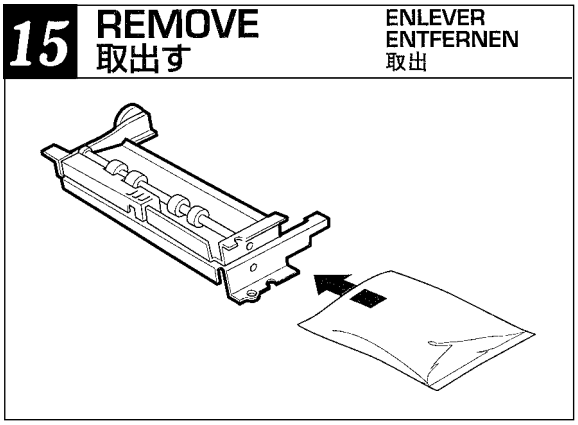

Install the connector cover taken out in 9 with two screws (TBID M4 x 8, silver) removed in step 9.



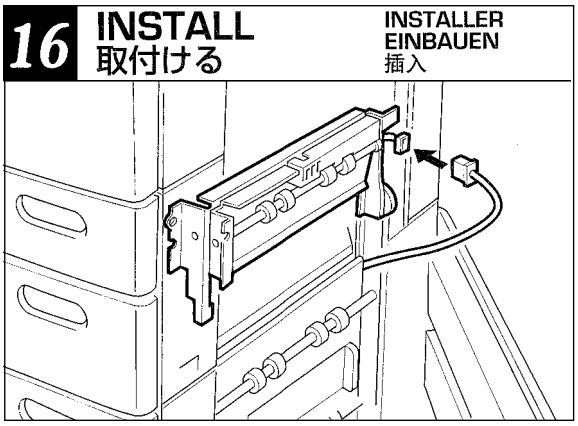

Open the copier and PFP side covers.



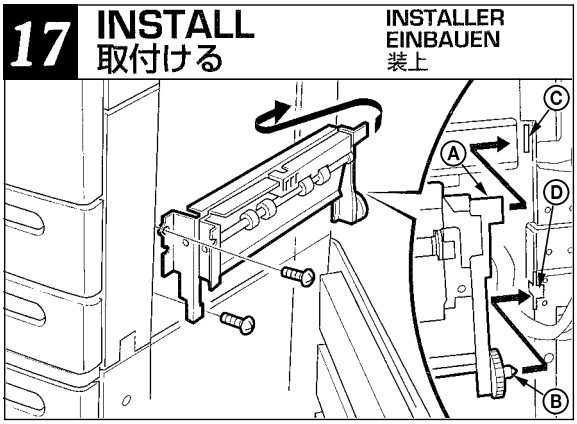

Remove the connector from feeder unit.



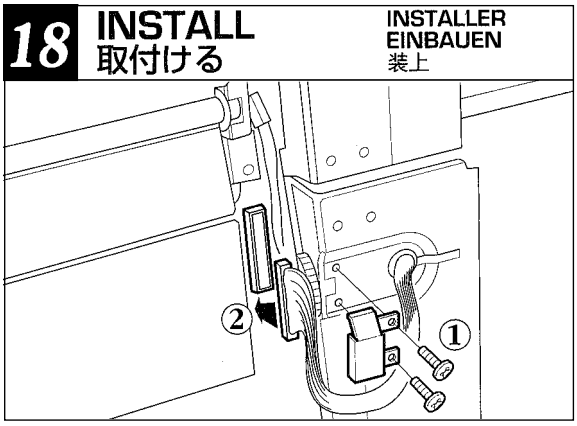

Remove the relay unit from the accessory package.



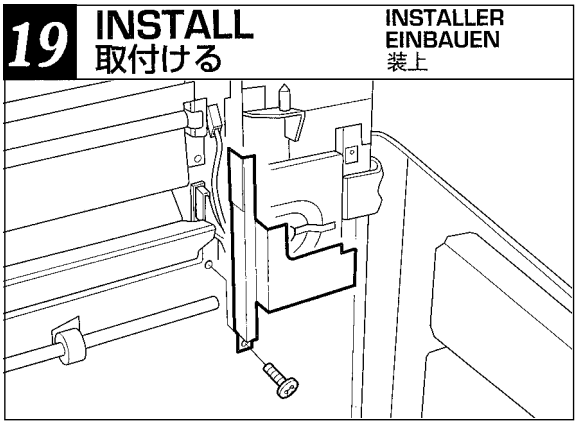

Insert the connector coming out of the paper feed pedestal into the connector of the relay unit taken out in 10.



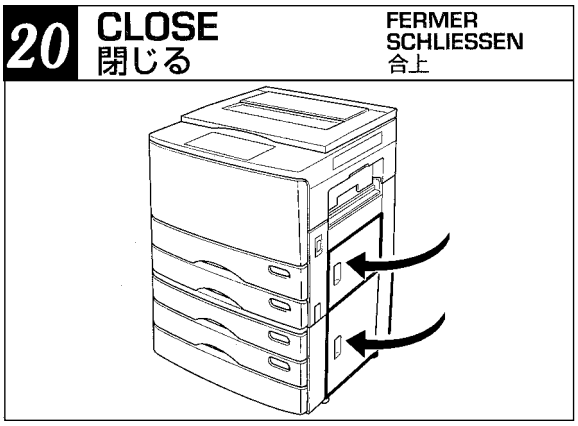

Install the relay unit by having its projections Ⓐ and Ⓑ fitted into insertion holes Ⓒ of the copier and Ⓓ of the pedestal, respectively, and then by fastening it with two screws (BID M3 x 6, silver) taken out in 9.



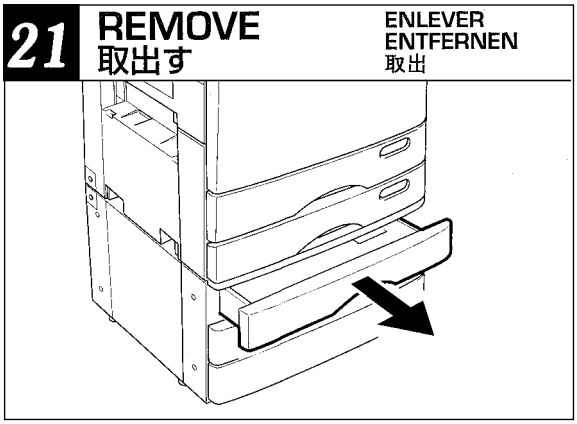

Fasten the gear cover taken out in 9 with two screws (TBID M3 x 6, black).



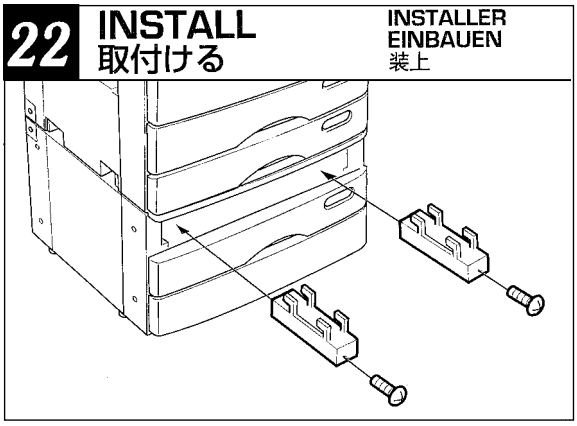

Fasten the harness cover taken out in 9 with a screw (TBID M3 x 6, black).



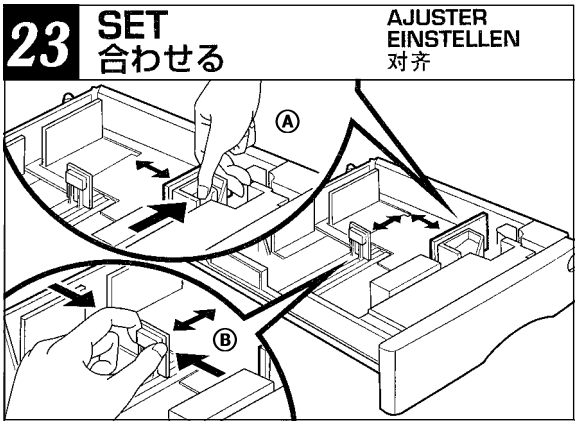

Close the PPC and PFP side covers.



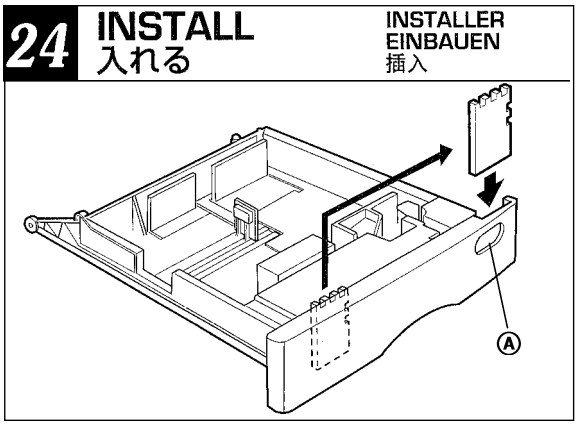

Pull out the cassette fully toward you and lift it up slightly to remove.



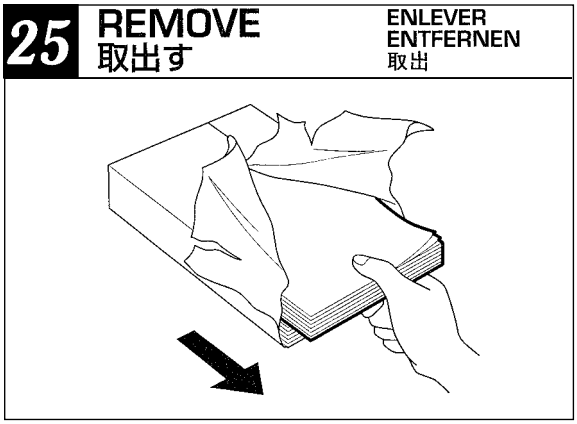

Fasten the two connecting brackets taken out in 5 with two screws (TBID M3 x 6, black) taken out in 9.



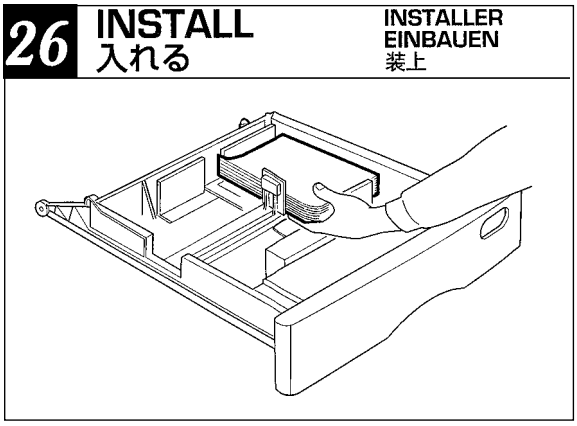

Adjust the side guide Ⓐ and end guide Ⓑ by gripping their respective lock levers to the paper size used.



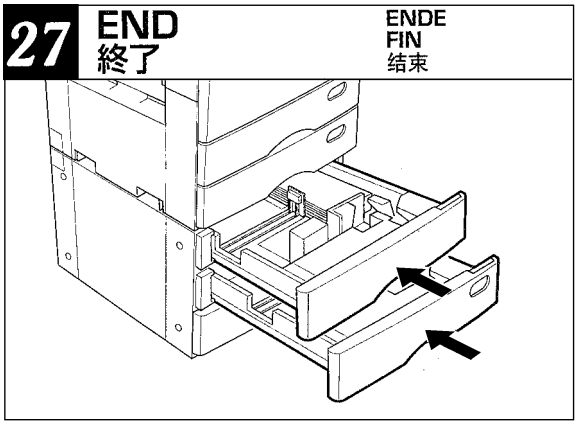

Set the size plate according to the paper size used. Make sure that the indicator Ⓐ shows the paper size used.



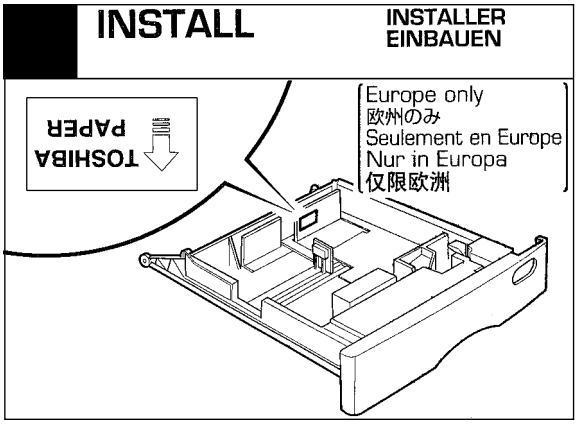

Open the paper package and take out whole ream of paper.




Holding the whole ream, place it with the package opening side facing down.




Push in the cassettes of the PFP straight slowly until it comes to a stop.




**<For Europe only>**

Stick the “TOSHIBA PAPER” label.

**Note:**

Caution the direction of label.