C-303

SERVICE MANUAL



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APPENDED DIAGRAMS

♦ ELECTRICAL WIRING DIAGRAM/ELECTRICAL CIRCUIT DIAGRAM

GENERAL, MECHANICAL/ ELECTRICAL

1 SPECIFICATIONS

Name : Large Capacity Cassette

Installation : Fixed to the copier using a dedicated Base with Slide Rails

Type of Paper : Plain paper, recycled paper

Size of Paper : A4 Crosswise, B5 Crosswise, Letter Crosswise

Weight of Paper : 60 to 90 g/m² or 16 to 24 lbs.

Reference

Position of Feed : Center

Capacity : Inch Area : 3,400 sheets (when paper weighing 20 lbs is used)

Metric Area: 3,000 sheets (when paper weighing 80 g/m² is used)

Power Supply : DC24V, 5V (supplied from the copier)

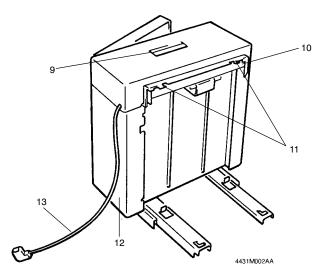
Power Consumption: 30 W or less

Dimensions : 287 mm or 11-1/4" (Width) × 446 mm or 17-1/2" (Depth)

×500 mm or 19-3/4" (Height)

Weight : 14.2 kg or 31-1/4 lbs. (including mounting brackets)

Environmental Requirements: Same as the copier



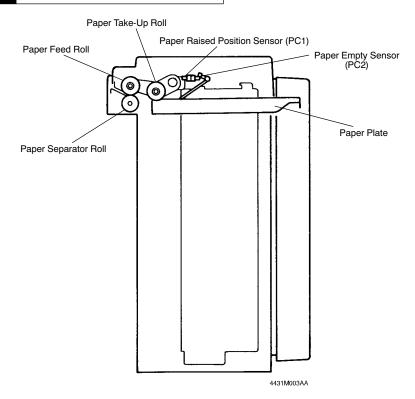
- 1. Front Cover
- 2. Paper Plate Descent Switch (S1B)
- 3. Top Cover
- 4. Cassette Door
- 5. Door Unlocking Lever
- 6. Edge Guide
- 7. Paper Plate

- 8. Support Base
- 9. Cassette Unlocking Lever

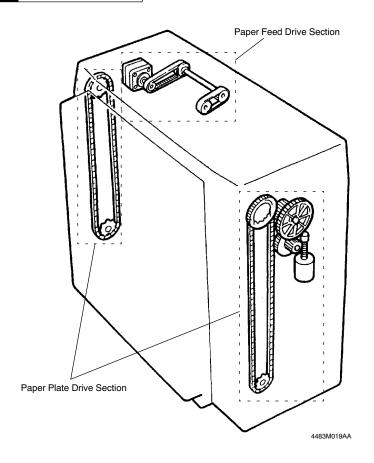
4431M001AA

- 10. Paper Transfer Port
- 11. Cassette Latches
- 12. Rear Cover
- 13. Relay Cord

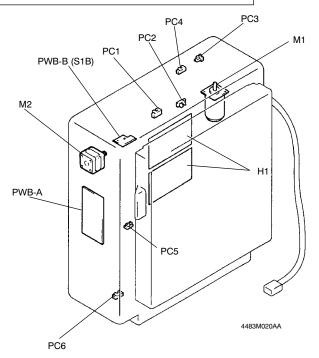
3 CROSS-SECTIONAL VIEW



DRIVE SYSTEM



ELECTRICAL COMPONENT LAYOUT



Symbol	Name	Symbol	Name
PWB-A PWB-B S1B H1	Drive Control Board Paper Plate Descent Switch Board Paper Plate Descent Switch Paper Dehumidifying Heater (Option)	PC1 PC2 PC3 PC4	Paper Plate Raised Position Sensor Paper Empty Sensor Set Sensor Paper Feed Sensor
M1 M2	Elevator Motor Paper Feed Motor	PC5 PC6	Cassette Door Sensor Paper Plate Lowered Position Sensor

6

PAPER PLATE DRIVE SECTION

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6-1. Paper Plate Lifting Mechanism

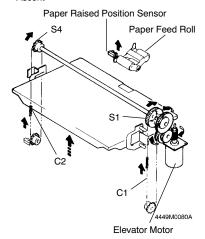
The Paper Plate is moved up/down by the Chains on both sides of the C-303 which are driven by the Elevator Motor (M1).

◆ Paper Plate Ascent/Descent Timing

- - 2 PC1 is deenergized during a feed cycle (paper top level correction).
- Ascent stop: ① The Paper Cassette Door is opened.
 - 2 PC1 is energized.
 - ③ The Paper Plate Descent Switch (S1B) is turned ON (note that the Paper Plate descends after a stop).
- Descent: ① Paper Empty is detected.
 - 2 S1B is turned ON.
- Descent stop: ① The Paper Cassette Door is opened.
 - 2 The Paper Plate Lowered Position Sensor (PC6) is energized.
 - 3 S1B is turned ON.

◆ Operation During Paper Plate Ascent/Descent Motion

Ascent



The Paper Plate ascent conditions are met.

The Elevator Motor (M1) rotates forward.

The Sprocket (S1) turns clockwise via the gears.

The Shaft transmits the turn to the opposite Sprocket (S4).

The Chains (C1, C2) are driven.

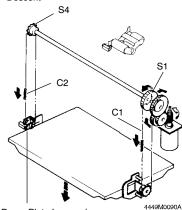
The Paper Plate ascends.

The Paper Take-Up Roll is lifted up by the Paper Plate.

The Paper Raised Position Sensor (PC1) is energized.

The Elevator Motor (M1) stops the ascent.

Descent



Paper Plate Lowered Position Sensor The Paper Plate descent conditions are met.

M1 rotates backward.

The Sprocket (S1) turns counterclockwise via the gears.

The Shaft transmits the turn to the opposite Sprocket (S4).

The Chains (C1, C2) are driven.

The Paper Plate descends.

The Paper Plate Lowered Position Sensor (PC6) is energized.

M1 stops the descent.

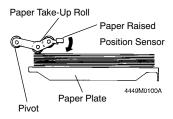
M-7

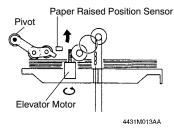
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6-2. Paper Top Level Correction Mechanism

• As sheets of paper are taken up and fed in, the top level of the paper stack goes down. This weakens the pressure being applied between the top sheet of paper and the Paper Take-Up Roll, causing a misfeed. The top level of the paper is therefore corrected as necessary to keep constant the pressure between the paper and Paper Take-Up Roll, thereby ensuring positive paper take-up and feeding.

♦ Operation in Top Level Correction





As sheets of paper are taken up, the top level of the paper stack on the Paper Plate goes down.

Descent of the paper top level lowers the Actuator of the Paper Raised Position Sensor, deenergizing the Paper Raised Position Sensor (PC1) (the sensor is unblocked).

The Elevator Motor (M1) rotates forward.

The Chains turn clockwise via the Gears. The Paper Plate ascends, causing the paper to lift up the Paper Take-Up Roll.

The Actuator of the Paper Raised Position Sensor is lifted, energizing PC1 (the Sensor is blocked).

M1 stops rotating.

End of Paper Top Level Correction

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6-3. Elevator Motor Control

• The Elevator Motor (M1) is rotated forward (counterclockwise as viewed from the motor output shaft), rotated backward, and stopped under the control of the signals from pins 42 and 43 of IC1A on PWB-A as listed below:

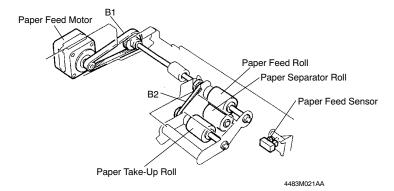
нмот	Paper Plate	IC1A-42	IC1A-43	PJ5A-1	PJ5A-3
Forward rotation	Ascent	High	Low	Approx. DC24V	Approx. DC0V
Backward rotation	Descent	Low	High	Approx. DC0V	Approx. DC24V
Stop	_	Low	Low	Approx. DC0V	Approx. DC0V

PAPER TAKE-UP AND FEEDING SECTION

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7-1. Paper Take-Up and Feeding Mechanism

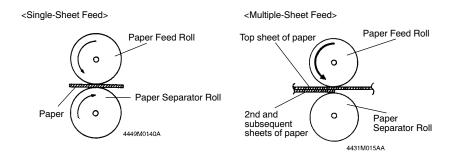
• The Paper Take-Up Roll and Paper Feed Roll are driven by the Paper Feed Motor (M2) via the Timing Belts (B1,B2) to take up the top sheet of the paper stack.



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7-2. Paper Separating Mechanism

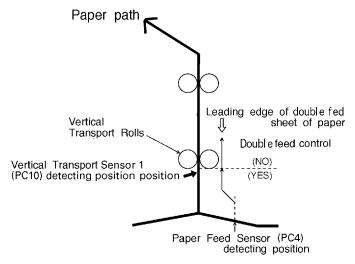
- When two or more sheets of paper are taken up by the Paper Take-Up Roll, the paper separating mechanism prevents the 2nd and subsequent sheets of paper from being fed together with the first one. This mechanism consists of the Paper Feed Roll, Paper Separator Roll and Torque Limiter.
- When only one sheet of paper is taken up, the rotational torque of the Paper Feed Roll is transmitted to the Paper Separator Roll via the sheet of paper fed, but the rotational torque of the Paper Feed Roll is greater than the static torque of the Paper Separator Roll (Torque Limiter). This causes the Paper Separator Roll to be rotated by the Paper Feed Roll, thereby transporting the sheet of paper fed.
- When there are two or more sheets of paper taken up at the same time, the friction between the first and 2nd sheets of paper is small. Hence, the static torque of the Torque Limiter keeps the Paper Separator Roll stationary, which stops the 2nd and subsequent sheets of paper from being fed in, causing only the top sheet of paper to be fed.



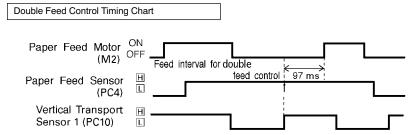
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7-3. Double Feed Control

- A sheet of paper fed together with a preceding sheet of paper in a paper feed cycle is not treated as a
 misfeed but is used as the next sheet of paper to be fed (double feed function). This function reduces the
 number of misfeeds that would otherwise be caused by double feed.
- A sheet of paper, which is fed after a preceding sheet of paper and is stopped, with the Paper Feed Sensor (PC4) blocked, by the time the trailing edge of the preceding sheet of paper moves past the Vertical Transport Sensor 1 (PC10) (unblocked), is detected as a double fed sheet of paper. When this is detected, double feed control is carried out.
- Note that this function is not activated for a double fed sheet of paper that has reached Vertical Transport
 Sensor 1 since it will be transported by the Rolls. Such a sheet of paper will be detected as a misfeed or
 fed together with the preceding sheet of paper.
- Double feed control increases the feed interval and therefore increases spacing between sheets of paper, reducing copy productivity.



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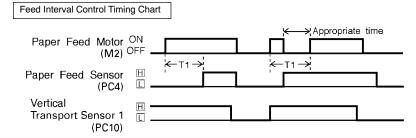


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7-4. Feed Interval Control

- When the Paper Separating Roll cannot separate sheets of paper well and a 2nd sheet of paper has passed the Paper Separating Roll (but it has not reached the Paper Feed Sensor (PC4)), starting the 2nd feed cycle will decrease the feed interval and may result in a misfeed. To prevent this, the C-303 exercises the feed interval control as described below to keep the feed interval appropriate.
- If the elapsed time from when the Paper Feed Motor (M2) is energized to when PC4 is unblocked (the Sensor output goes High) is 97 msec. (ordinary time) or less, M2 is deenergized. In an appropriate period of time, M2 is re-energized to keep the feed interval constant.



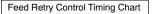
T1(97 msec.): Ordinary time from when the Paper Feed Motor is energized until paper reaches the Paper Feed Sensor.

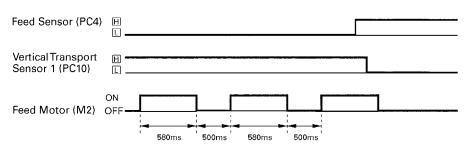
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7-5. Feed Retry Control

- When a misfeed occurs, a feed cycle is performed again to reduce misfeeds.
- If a sheet of paper does not unblock PC4 (the Sensor output goes High) within 580 msec. after the start
 of feeding, a feed cycle is restarted after M2 is deenergized.
- A paper misfeed results if a sheet of paper does not reach the Paper Feed Sensor even after three paper take-up sequences.



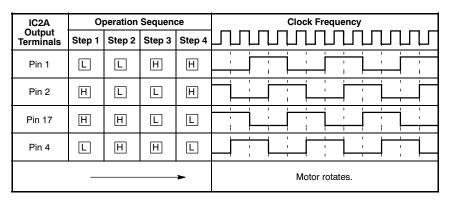


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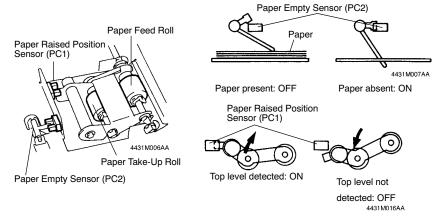
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7-6. Paper Feed Motor Control

- A stepping motor is used as the Paper Feed Motor (M2). The rotation, stop and speed of the Motor are
 controlled by the output signals from pins 1, 2, 17 and 4 of IC2A which are transmitted from the Master
 PWB (PWB-A) of the copier via the Drive Board (PWB-A) of the C-303.
- The Motor is turned by changing the sequence of outputting the signals from pins 1, 2, 17 and 4 of IC2A according to the clock frequency from steps 1 to 2 to 3 to 4 as listed below. Hence, the speed can be changed according to the clock frequency.



7-7. Paper Empty Detecting Mechanism



◆ Paper Empty Detection Timing

- As sheets of paper are taken up, the Paper Plate is raised by the paper top level correction mechanism.
 When the Paper Plate runs out of paper, the Actuator of the Paper Empty Sensor (PC2) drops into the notch in the Paper Plate. This causes both the Paper Empty Sensor (PC2) and Paper Raised Position Sensor (PC1) to be energized and a paper empty message to be displayed on the copier panel.
- The paper empty message is also displayed on the copier panel when:
 - 1 The Paper Cassette Door is opened;
 - 2 The Paper Plate Descent Switch is pressed in a feed-ready state; or
 - 3 The Cassette is not attached to the copier.

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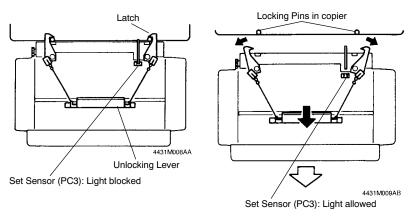
8 MISCELLANEOUS

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8-1. Cassette Locking Mechanism

The Cassette Unlocking Lever and Latches are connected by a wire. By holding down the Unlocking Lever, the Latches are disengaged from the Locking Pins in the copier, unlocking the cassette from the copier.

<Locked State> <Unlocked State>



◆ Locked State Detection

The Set Sensor (PC3) and its Actuator are provided near the Cassette Latch to detect whether the cassette is locked or unlocked from the copier. When the cassette is locked, the Sensor is blocked.

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8-2. Paper Dehumidifier Heaters (Option)

- The Paper Dehumidifier Heaters are optionally provided to dehumidify paper loaded in the cassette.
- Each of the two Paper Dehumidifier Heaters is rated at DC24V and 10W.

◆ Paper Dehumidifier Heater ON Timing

	Paper Dehumidifier Switch ON			
	Power cord Plugged in	Power Switch ON	*During a copy cycle	
H1	ON	ON	ON	

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8-3. Sensor Check

The C-303 allows the energization/deenergization of the Sensors to be checked in the Tech. Rep. Mode
of the copier for use in troubleshooting, etc.

♦ Sensor Checking Procedure

- 1. Access the Tech. Rep. Mode Screen and select "Port Check" in the "I/O Check" mode.
- Press the "Next" key to access the screen which includes the items of PWB-A (LCT, IC1A). (Refer to the SWITCHES ON PWBs/TEST MODE Section of the copier manual.)
- 3. Refer to the following table and ensure the state of the Sensor to be checked.
- 4. Change the state of that Sensor with a finger, sheet of paper or the like.
- 5. Press the "Menu" key to select "Port Check" again. Recall the screen which includes the items of PWB-A (LCT, IC1A), and check whether the state of the corresponding Sensor has changed.
- 6. The Sensor is normal if its state has changed. If its state remains unchanged, the Sensor itself or the Board may be faulty.
- Corresponding Port No. and Sensors -

Port No.	Symbol	Sensor	Sensor State
PC2	PC3	Set Sensor	LCT locked: L Unlocked: H
PC1	PC2	Paper Empty Sensor	Empty: L Otherwise: H
PC0	PC1	Paper Raised Position Sensor	Paper raised position: L Otherwise: H
PG3	PC6	Paper Plate Lowered Position Sensor	Paper plate lowered position: L Otherwise: H
PG2	PC5	Paper Cassette Door Sensor	Door closed: L Open: H
PG1	S1B	Paper Plate Descent Switch	ON: L OFF: H
PG0	PC4	Paper Feed Sensor	Paper present: H Paper absent: L

^{*} In addition to the above ports, PWB-A (LCT, IC1A) includes the motor ports, etc. Though the states of these parts may be changed, they are inoperative.

^{*} IC1A is listed as IC2A on the Control Panel.

DIS/REASSEMBLY, ADJUSTMENT

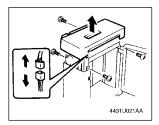
Precautions for Disassembly, Reassembly and Adjustment

- Before attempting to disassemble the C-303, always make sure that no power is being supplied from the copier.
- While power is being supplied to the C-303, do not attempt to remove/install the print jacks from/to the PWBs or unplug/plug in the connectors.
- 3. If the C-303 is run with its Covers removed, use care not to allow your clothing to be caught in revolving parts
- 4. The basic rule is do not run the C-303 any time during dis/reassembly.
- 5. A toothed washer is used with the screw that secures the ground wire to ensure positive conduction.
 Do not forget to insert this washer at reassembly.
- 6. To reassemble the C-303, reverse the order of disassembly unless otherwise specified.

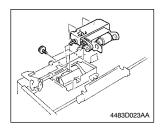
DISASSEMBLY

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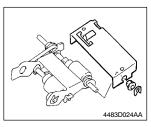
1-1. Removal of the Paper Take-Up Roll and Paper Feed Roll



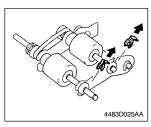
 Loosen four screws, unplug the Connector, and remove the Top Cover.



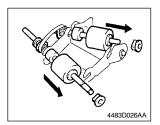
2. Remove two screws and the Paper Feed Roll Unit.



Snap off one C-clip, remove the bushing, and the Paper Feed Roll Assy.

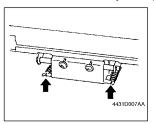


4. Remove one C-clip each from the Paper Feed Roll Shaft and Paper Take-Up Roll Shaft.

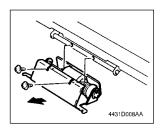


Slide off the bushings, the Paper Feed Roll and Paper Take-Up Roll.

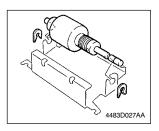
1-2. Removal of the Paper Separator Roll Assy



1. Remove the two springs in the Paper Separator Roll Unit.



2. Remove two screws and the Paper Separator Roll Unit.



3. Remove two E-rings and the Paper Separator Roll Assy.

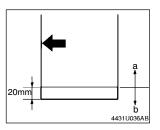
2 ADJUSTMENT

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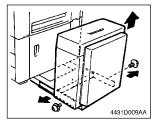
Adjustment of Paper Registration



 Draw a line that runs across the entire width of a test chart 20 mm away from its leading edge. Place the chart on the Original Glass and make a copy.



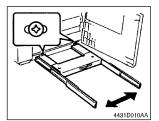
- Check how many mm the line on the copy deviates in the "a" or "b" direction.
 - * When there is no deviation, adjustment is not required.



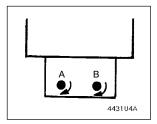
Remove two screws and detach the cassette from the copier.



4. Remove two screws and the Cover.



- i. Loosen the two Support Base mounting screws.
- If the line checked in step 2 deviates in the "a" direction, move the Support Base toward the rear of the copier by the same amount. If the line deviates in the "b" direction, move the Support Base toward the front of the copier by that amount.

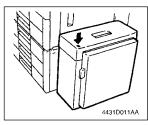


- If step 6 does not result in correct adjustment, turn the appropriate Adjuster in the direction of the arrow.
 - If the line deviates in the "a" direction, turn Adjuster A.
 - If the line deviates in the "b" direction, turn Adjuster B.
 - One complete turn of the Adjuster results in a shift of 1 mm. The Adjuster should be turned two turns maximum.

MISCELLANEOUS

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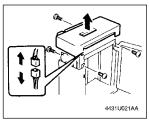
Conversion of Paper Size [A4 (Crosswise), B5 (Crosswise), Letter (Crosswise) Only]



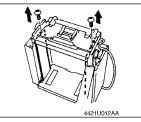
 Press the Paper Plate Descent Switch to lower the Paper Plate to its lowermost position.



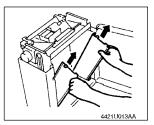
Turn OFF the Power Switch of the copier and unplug the power cord of the copier from the outlet. Then, press the Cassette Unlocking Lever and slide the cassette away from the copier.



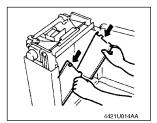
Open the Cassette Door, loosen four screws, unplug the connector, and remove the Top Cover.



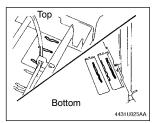
4. Remove the screws for the Front and Rear Edge Guides.

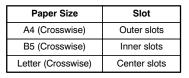


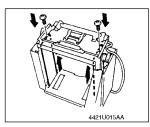
5. Remove the Front and Rear Edge Guides.



Refer to the following table and illustration, and fit the Front and Rear Edge Guides into the top and bottom slots corresponding to the paper size to be loaded.







- 7. Secure the Edge Guides with the two screws.
- 8. In the Tech. Rep. Mode of the copier, input the new paper size

For the paper size input procedure, see the copier's Service Manual.

TROUBLESHOOTING

General Precautions

- When servicing the C-303 with its covers removed, use utmost care to prevent your hands, clothing and tools from being caught in revolving parts.
- Before attempting to replace parts and unplugging connectors, make sure that no power is being supplied from the copier.
- In whatever situations, terminals and PWB patterns other than connectors specified in the text must not be shorted.
- 4. When creating a closed circuit and measuring a voltage across connector pins specified in the text, be sure to use the green wire (GND).
- Keep all disassembled parts in good order and keep tools under control so that none will be lost or damaged.

Reading the Text

- If a component on a PWB or any other functional unit including a motor is defective, the text only
 instructs you to replace the whole PWB or functional unit and does not give troubleshooting procedure
 applicable within the defective unit.
- The text assumes that there are no breaks and shorts in the harnesses and all connectors are plugged into the right positions.
- 3. The text basically provides for malfunctions that occur due to defective parts and does not deal with faults caused by external noises, etc.

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1/82CBT0100A

1 PAPER MISFEED DETECTION

4483SBT0101

1-1. Misfeed Detection

 Either of the following paper misfeeds in the cassette can be detected and the corresponding misfeed message displayed on the copier panel.

Check Item	Detection Timing
Remaining paper misfeed (Unremoved paper misfeed)	Paper Feed Sensor PC4 is unblocked (H) when the Power Switch is turned ON or a mallfunction is reset.
Paper take-up failure detection	PC4 is not unblocked (H) even after the lapse of approx. 0.7 sec. after Paper Feed Motor M2 has been energized for the third retry take-up sequence.
Paper take-up trailing edge detection	PC4 is not blocked (L) even after the lapse of approx. Tsec.* after PC4 is unblocked (H).
Leading edge detection by Vertical transport Sensor 1 PC10	PC10 is not blocked (L) even after the lapse of approx. 0.5 sec. after PC4 has been unblocked (H).

^{*} Depends on the paper size (1.33sec. for A3 lengthwise).

• To reset the misfeed, unlock the cassette.

4483SBT0102A

1-2. Misfeed Troubleshooting Procedures

• The C-303 has four different types of misfeeds detected, "remaining paper misfeed" which occurs before the start of a copy cycle, and "paper leading edge misfeed" which occurs after the start of a copy cycle. To remedy these misfeeds, use the following procedures.

1) Misfeed occurring before copy start

Step	Check Item	Result	Remedy
1	Is there a sheet of paper being fed in the cassette and is the Paper Feed Sensor (PC4) unblocked?	YES	Remove the paper being fed.
2	Does the Actuator of PC4 operate properly?	NO	Check that PC4 is installed in the proper position and that the Actuator is free from deforma- tion, foreign matter, etc.
	Does PWB-A receive the output signal of PC4	YES	Change PWB-A.
3	properly? * Is the voltage across PJ2A-2B and GND approx. DC0V? Also, when PC4 is unblocked, does the voltage change to approx. DC5V?	NO	Check the wiring between PWB-A and PC4. If normal, change PC4.

^{*} If this misfeed is not remedied after PWB-A has been changed, check the copier.

2) Misfeed occurring after copy start

Step	Check Item	Result	Remedy
1	Does the Paper Feed Motor (M2) rotate?	NO	Go to Step 9.
2	Does the paper used conform to the specifications?	NO	Ask the user to use paper conforming to the specifications.
3	Is the paper curled, wavy, damp, etc.?	YES	Change the paper. Instruct the user in the right way to keep paper.
4	Has the paper reached the Paper Feed Sensor (PC4)?	YES	Go to Step 6.
5	Is the Paper Take-Up Roll, Paper Feed Roll or Paper Separator Roll dirty, deformed, worn, etc.?	YES	Clean or change the corresponding Roll.
6	Is the paper path deformed, dirty, etc.?	YES	Clean, repair or change the Guides, etc.
7	Does the Actuator of PC4 operate properly?	NO	Check that PC4 is installed in the proper position and that the Actuator is free from deforma- tion, foreign matter, etc.
	Does PWB-A receive the output signal of PC4	YES	Change PWB-A.
8	properly? * Is the voltage across PJ2A-2B and GND approx. DC0V? Also, when PC4 is unblocked, does the voltage change to approx. DC5V?	NO	Check the wiring between PWB-A and PC4. If normal, change PC4.
9	Is drive from M2 transmitted smoothly?	NO	Check the drive transmission section from M2 (check for foreign matter, deformation, damage, etc.).
40	Is wiring between PWB-A and M2 proper?	YES	Change PWB-A or M2.
10		NO	Correct the wiring.

^{*} If this misfeed is not remedied by the above procedure, check the Master PWB (PWB-A) in the copier.

4483SBT0200A

MALFUNCTION DETECTION

1/82CBT0201A

2-1. Malfunction Detection

- When a malfunction is detected in the cassette at any of the timings described below, the copier disables
 the panel from selecting the paper in the cassette and the Paper Plate from ascending/descending. However, the corresponding malfunction code is not displayed and a copy cycle is not inhibited (because paper
 can be fed from another port).
- The malfunction code of the cassette is displayed on the "Machine Status" screen in the Tech. Rep. mode.
 When this screen is being displayed, open/close the copier Front Door, to reset the malfunction. (If a malfunction reset is made with an ordinary screen being displayed, the malfunction of the cassette cannot be reset.)

Malfunction Code	Detection Timing	
C09C0 Elevator Ascent Fault	The Paper Raised Position Sensor (PC1) is not blocked (the Sensor output does not go Low) 12 sec. after the Elevator Motor (M1) is energized. PC1 is not blocked (the Sensor output does not go Low) 3 sec. after M1 is energized and the Paper Empty Sensor (PC2) is unblocked (PC2 output goes High).	
C09C2 Elevator Descent Fault	The Paper Plate Lowered Position Sensor (PC6) is not blocked (the Sensor output does not go Low) 12 sec. after M1 is energized.	

Reference

If a communication failure occurs between the copier and C-303, it results in a malfunction with a code of C0353 or C0373 occurring. For the troubleshooting procedure for these malfunctions, see TROUBLESHOOTING of the copier's Service Manual.

4483SRT0202A

2-2. Malfunction Troubleshooting Procedures

1) Code C09C0

Step	Check Item	Result	Remedy
1	After resetting the malfunction, does opening/ closing the Cassette Door cause the Paper Plate to ascend?	NO	Go to Step 4.
2	Does the Actuator of PC1 or PC2 operate properly?	NO	Check that PC1 or PC2 is installed in the proper position and that the Actuator is free from deformation, foreign matter, etc.
3	Does PWB-A receive the output signal of PC1 properly? * When PC1 is unblocked, does the voltage across PJ2A-8A and GND change from approx. DC0V to approx. DC5V?	YES	Change PWB-A.
		NO	Check the wiring between PWB-A and PC1. If normal, change PC1.
	Does PWB-A receive the output signal of PC2 properly? * When PC2 is unblocked, does the voltage across PJ2A-8B and GND change from approx. DC0V to approx. DC5V?	YES	Change PWB-A.
		NO	Check the wiring between PWB-A and PC2. If normal, change PC2.
4	Is the drive transmission from M1 normal?	NO	Check the drive transmission section from M1 (check for foreign matter, deformation, damage, etc.).
5	Is the M1 drive voltage output from PWB-A? * After resetting the malfunction, does opening/ closing the Cassette Door cause the voltage across PJ5A-1 and GND to change from approx. DC0V to approx. DC24V?	YES	Check the wiring between PWB-A and M1. If normal, change M1.
		NO	Change PWB-A.

^{*} If this malfunction is not remedied by the above procedure, check the Master PWB (PWB-A) in the copier.

2) Code C09C2

Step	Check Item	Result	Remedy
1	After resetting the malfunction, does pressing the Paper Plate Descent Switch cause the Paper Plate to descend?	NO	Go to Step 4.
2	Are the Paper Plate Lowered Position Sensor (PC6) and the blocking plate fitted to the chain in the proper positions to interact?	NO	Check that PC6 is installed in the proper position and that the blocking plate is free from de- formation, foreign matter, etc.
3	Does PWB-A receive the output signal of PC6 properly? * When PC6 is unblocked, does the voltage across PJ2A-5A and GND change from approx. DC5V to approx. DC0V?	YES	Change PWB-A.
		NO	Check the wiring between PWB-A and PC6. If normal, change PC6.
4	Is the drive transmission section from M1 normal?	NO	Check the drive transmission section from M1 (check for foreign matter, deformation, damage, etc.).
5	Is the M1 drive voltage output from PWB-A? * After resetting the malfunction, does pressing the Paper Plate Descent Switch cause the voltage across PJ5A-3 and GND to change from approx. DC0V to approx. DC24V?	YES	Check the wiring between PWB-A and M1. If normal, change M1.
		NO	Change PWB-A.

^{*} If this malfunction is not remedied by the above procedure, check the Master PWB (PWB-A) in the copier.



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