Option Printer

d-Color MF201
d-Color MF201Plus - MF250 - MF350

PC-405

THEORY OF OPERATION

Code Y109041-4

PUBLICATION ISSUED BY:

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Italy

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Outline

1. Product specification

A. Type

Name	Large capacity cabinet
Type	Front loading type LCC
Installation	Desk type
Document alignment	Center

B. Paper

Type	Size	Capacity
Plain paper (60 to 90 g/m² (16 to 24 lb))	A4, 8-1/2 x 11	2,500 sheets
Thick paper 1 (91 to 150 g/m² (24.25 to 40 lb))		1,000 sheets
Thick paper 2 (151 to 209 g/m² (40 to 55.5 lb))		
Thick paper 3 (210 to 256 g/m² (55.75 to 68 lb))		

C. Machine specifications

Power requirements	DC 24 V ± 10% (supplied from the main body)
	DC 5 V ± 5%
Max. power consumption	45 W or less
Dimensions	600 mm (W) x 578 mm (D) x 301 mm (H) 23.5 inch (W) x 22.75 inch (D) x 11.75 inch (H)
Weight	28.0 kg (61.75 lb)

D. Operating environment

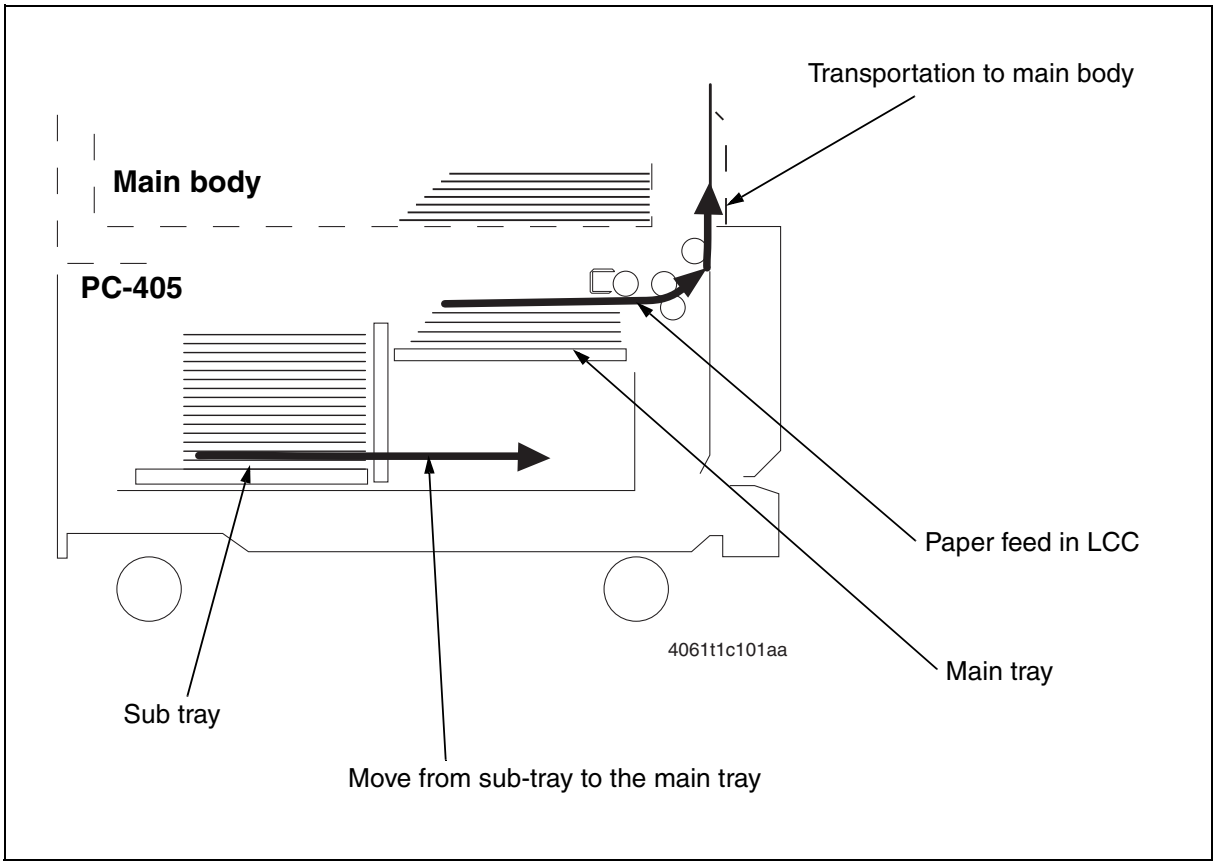
Conforms to the operating environment of the main body.

NOTE

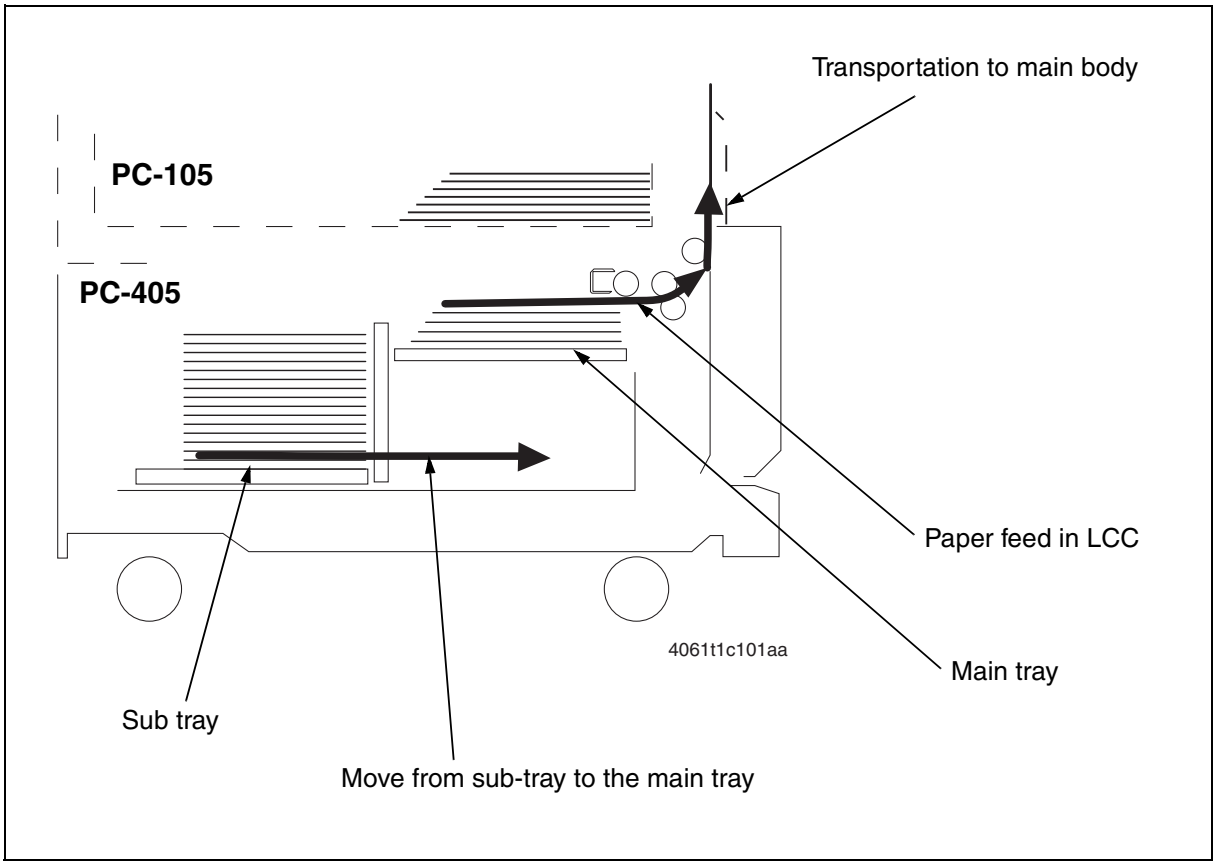
- **These specifications are subject to change without notice.**

2. Paper Feed Path

d-Color MF201Plus - d-Color MF250 - d-Color MF350

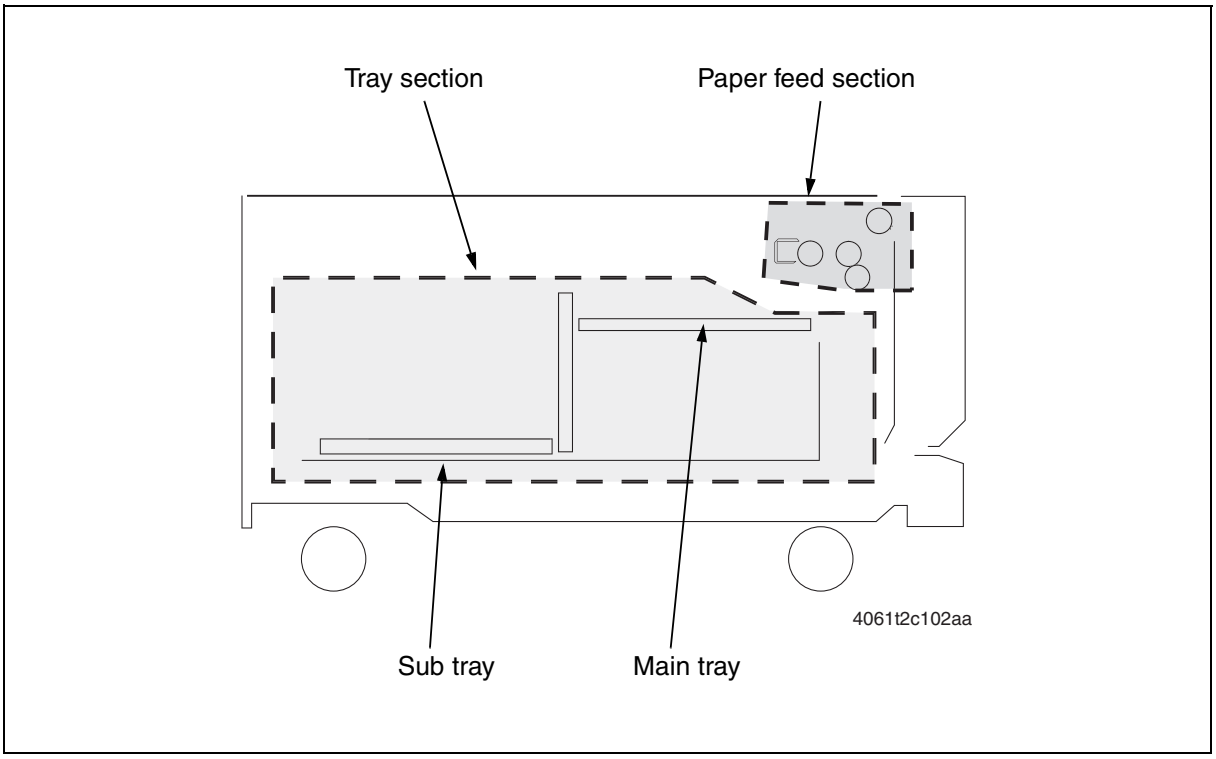


d-Color MF201

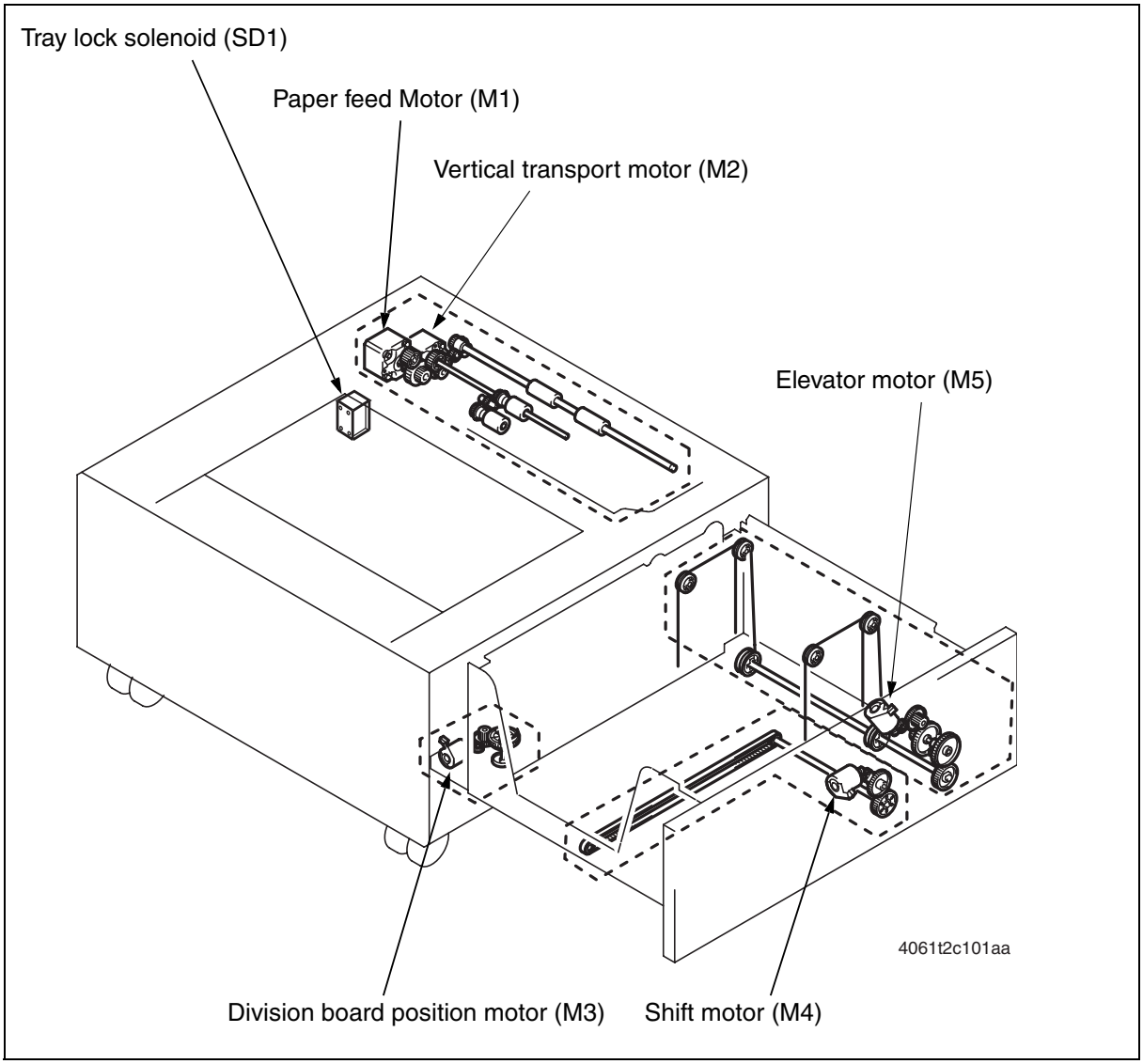


Composition/Operation

3. Composition



4. Drive

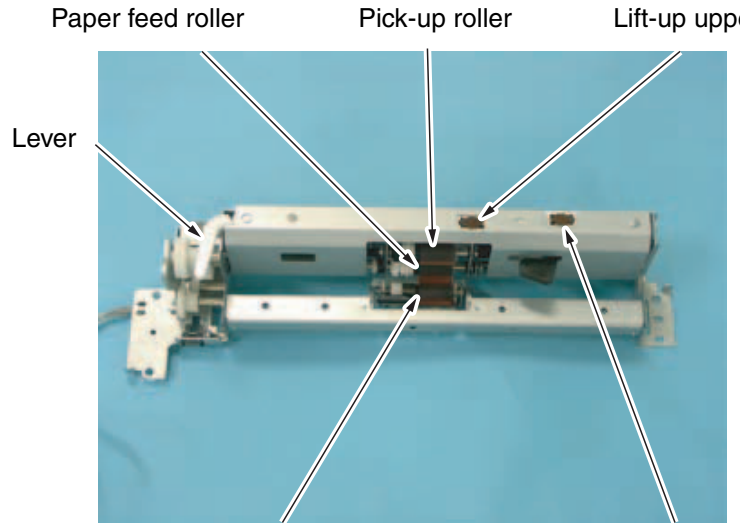

Tray lock solenoid (SD1)
Paper feed Motor (M1)
Vertical transport motor (M2)
Elevator motor (M5)
4061t2c101aa
Division board position motor (M3)
Shift motor (M4)

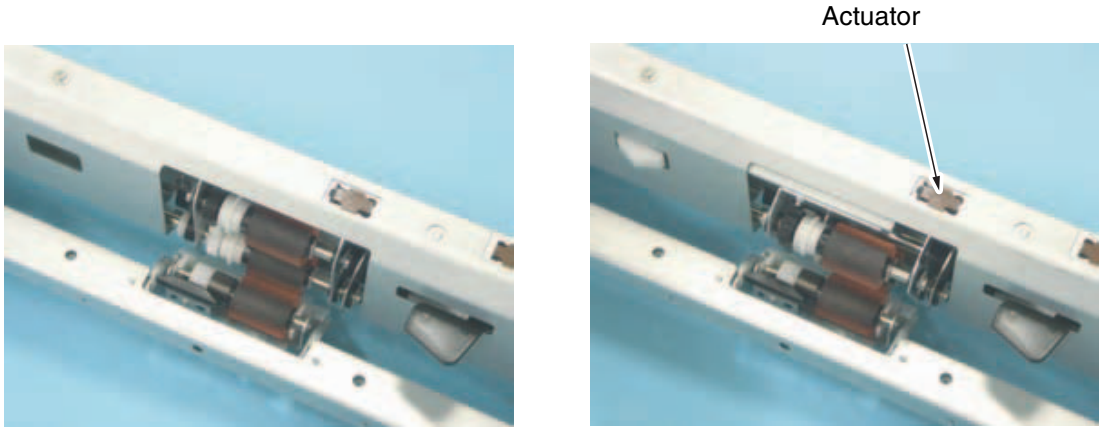
5. Operations

5.1 Paper feed section

5.1.1 Paper feed drive mechanism

- The paper feed motor drives the pick-up roller and paper feed roller to take up and feed a sheet of paper into the main body.
- Then, the vertical transport motor transports the paper through the vertical transport section.
- The pick-up roller takes up sheets of paper and the paper feed and separation rollers ensure that only one sheet of paper is separated and fed into the main body.
- when the drawer is slid in, the lever is pushed to lower the pick-up roller.
- The lift-up upper sensor then detects the upper limit position when the paper lifting plate is raised.
- The paper empty sensor detects when paper in the drawer runs out.

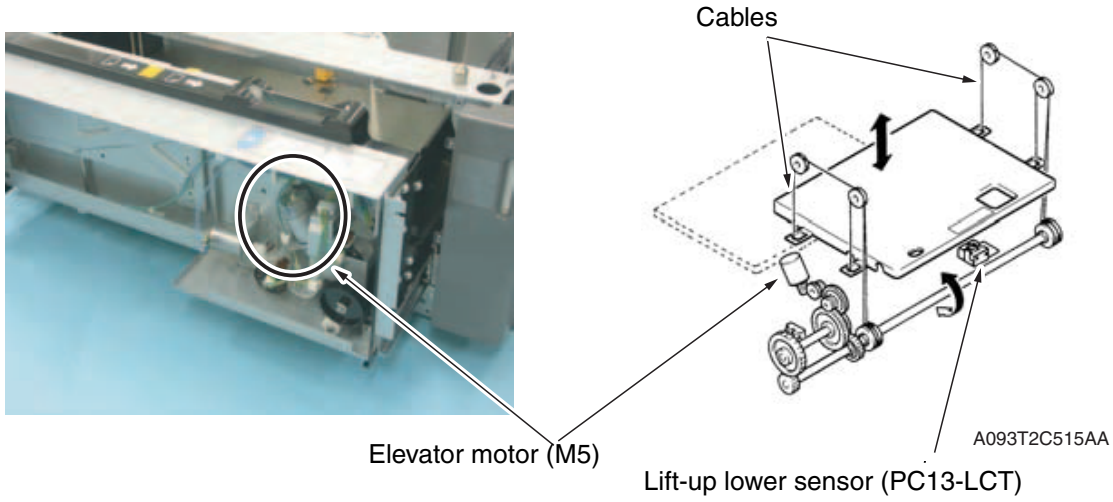


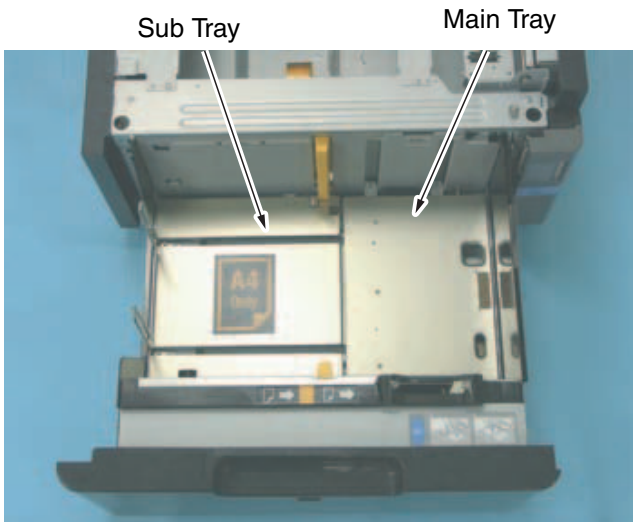


5.2 Tray section

5.2.1 Elevator tray mechanism

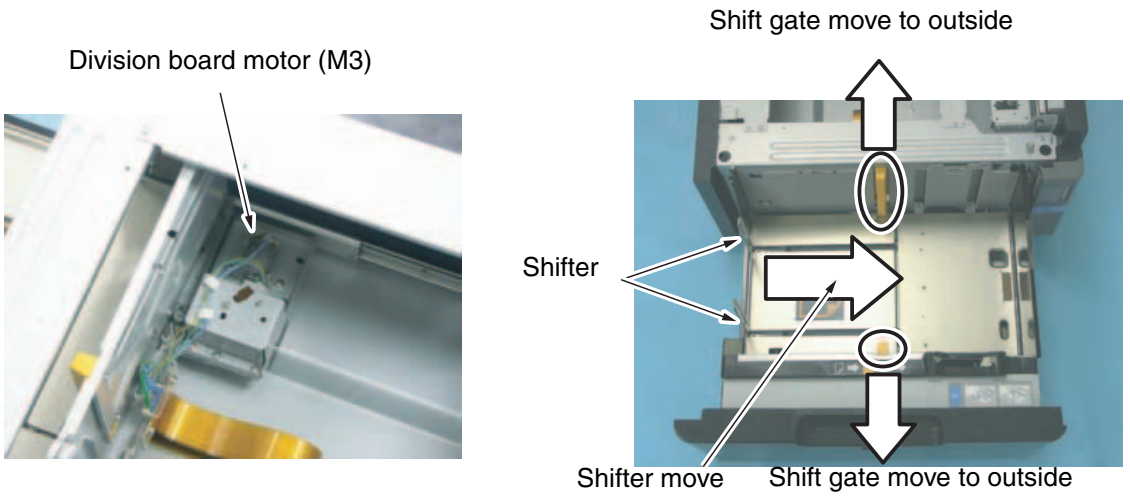
- The main tray is suspended by the cables at the front and rear.
- As the elevator motor turns forward or backward, the cables are wound to raise or lower the tray.
- The lift-up lower sensor detects the tray at its lower limit position.





5.2.2 Shift Gate drive mechanism

- If the main tray runs out of paper, while the sub tray is loaded with paper, the paper stack on the sub tray is moved to the main tray.
- At this time, the division board motor is energized to retract the front and rear shift gates.



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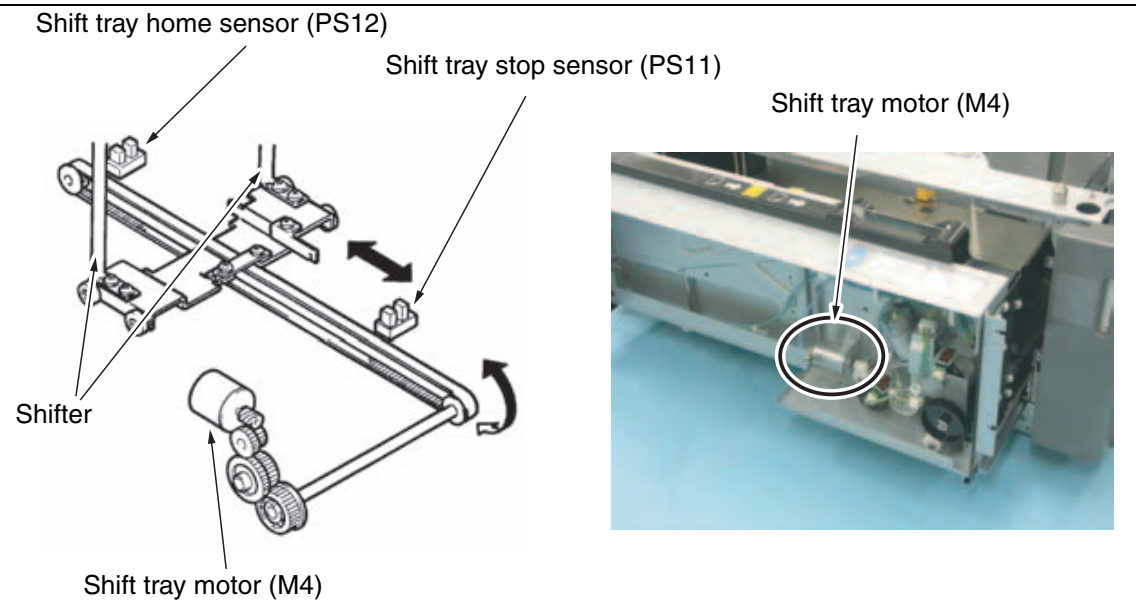
5.2.3 Shifter drive mechanism

- Then, the shift motor is energized to move the shifter so that the paper stack on the sub tray is moved onto the main tray.
- The shifter continues moving and stops when the shift tray stop sensor is activated. when the drawer release button is thereafter pressed, the shifter starts moving and stops as soon as the shift tray home sensor is activated.



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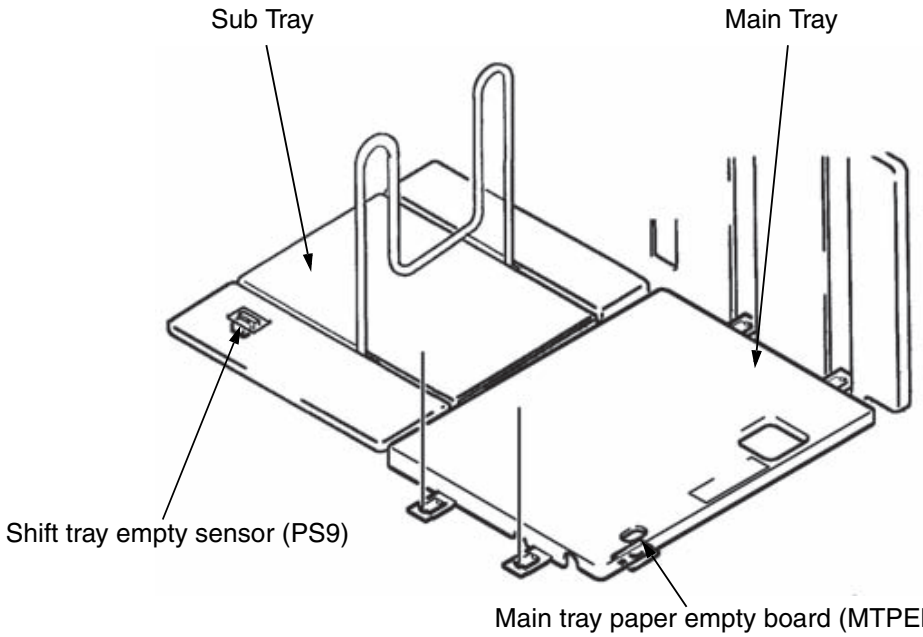
5.2.4 Paper empty detection

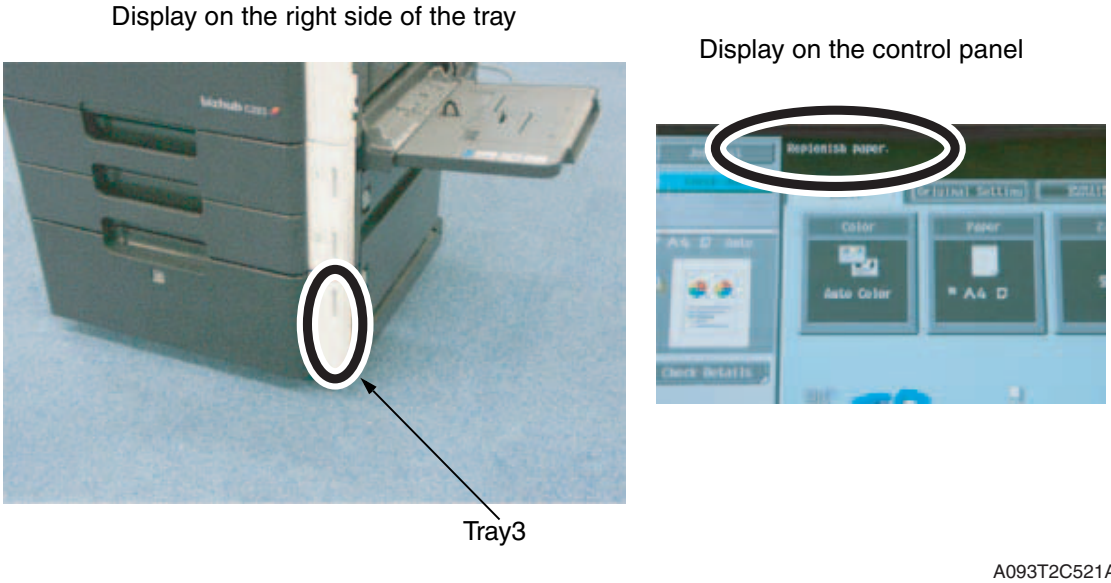
- Paper empty detection of main tray is performed by main tray paper empty sensor board.
- paper empty detection of sub tray is performed by shift tray empty sensor.



5.2.5 Remaining paper amount displayed for d-Color MF201Plus - d-Color MF250 - d-Color MF350

- Remaining paper amount is displayed with LED on the right side of the tray, and on the control panel.
- The estimate amount of paper for near empty is around 150.

Tray status	Empty	Near empty	Other status (During lifting-up and with tray not being set included)
LED status	On	Blink	Off



5.2.6 Remaining paper amount displayed for d-Color MF201

- The control panel displays a near-empty or empty message when the corresponding condition occurs.
- The estimate amount of paper for near empty is around 50.

NOTE

- **The remaining paper display LED located on the right side of the cassette is not used on this model.**

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UPDATING STATUS

DATE	UPDATED PAGES	PAGES	CODE
09/2008	1ST EDITION	15	Y109041-4