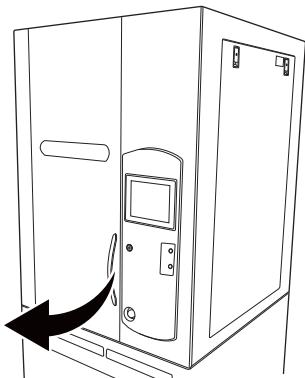


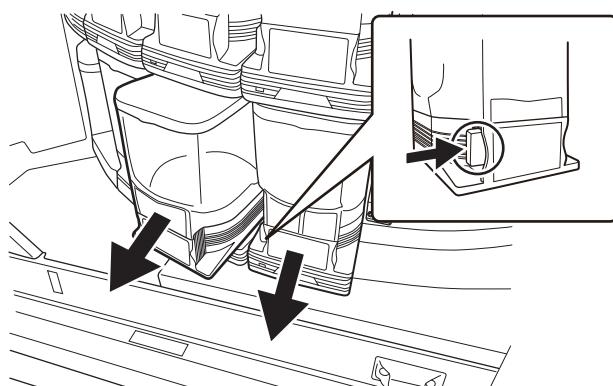
# Sash unit

After dispensing plain tablets, a small amount of powder may remain inside the packing machine. Maintain the packing machine periodically to ensure that such powder is not mixed with other drugs.



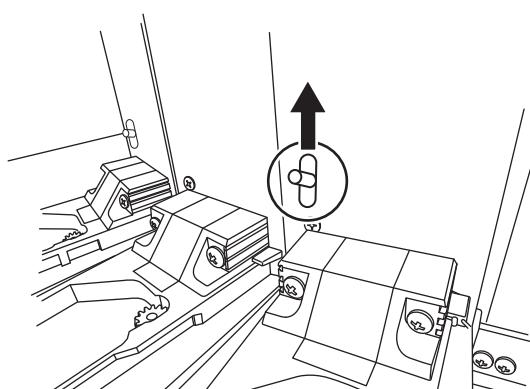
## 1. Open the upper door.

- Open the upper door while holding its handle.



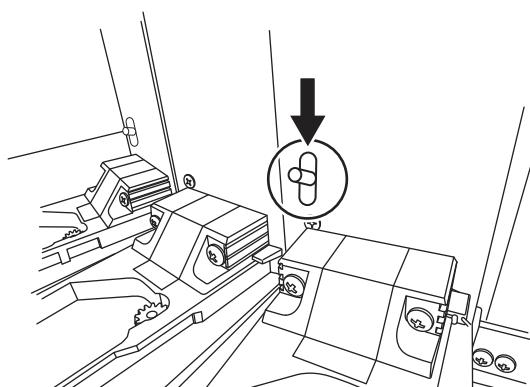
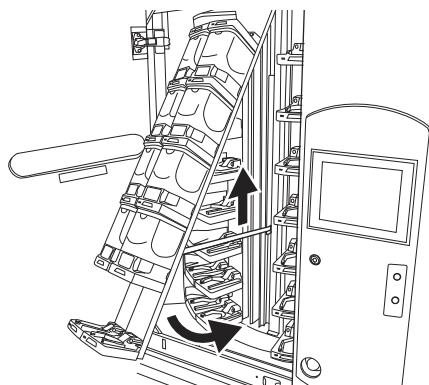
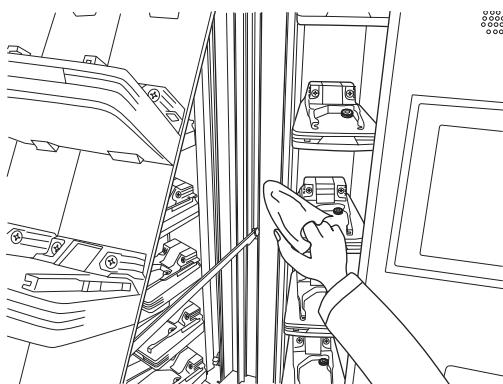
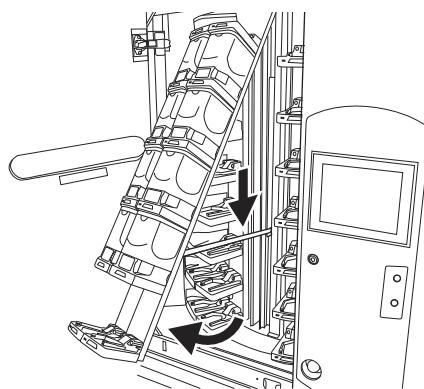
## 2. Remove the cassette.

- Remove the cassette while pressing the lock of the cassette until you hear a click sound.
- Remove two cassettes from the top and the bottom respectively.



## 3. Lift the sash-fixing lever.

- Lift and hold the fixing lever.



#### 4. Open the sash.

- Lower the sash-fixing bar to fix the sash.

##### CAUTION

Do not open the sash swiftly. Failing to obey this instruction will lower the fixing bar suddenly, resulting in injury.

#### 5. Clean the inside of the sash.

- Remove dirt from the surface by wiping it with a soft water-moistened cloth.
- After removing dirt, remove moisture from the surface by wiping it with a dry soft cloth.

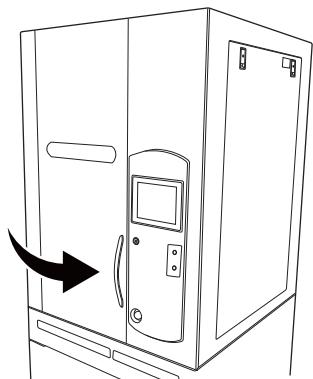
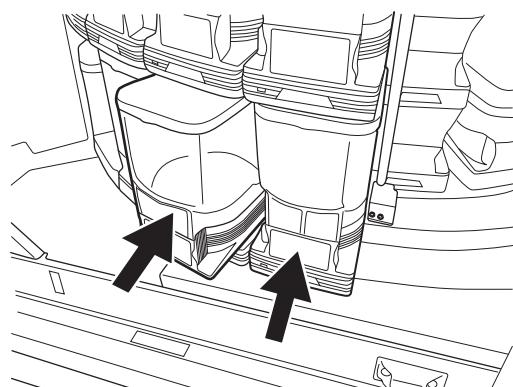
#### 6. Lift the sash-fixing bar.

- After lifting the fixing bar, close the sash.

##### CAUTION

Be careful not to pinch your fingers.

- Closing the sash will automatically lower the fixing lever. (Make sure that the sash is securely locked.)



## 7. Attach the cassettes.

- Attach two cassettes to the top and the bottom respectively.
- Insert them all the way.

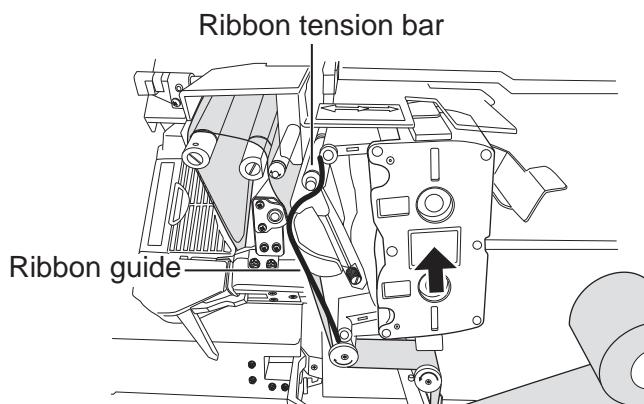
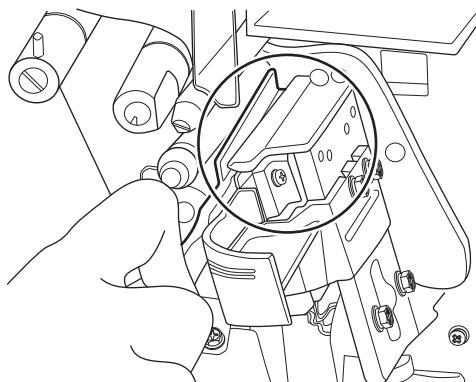
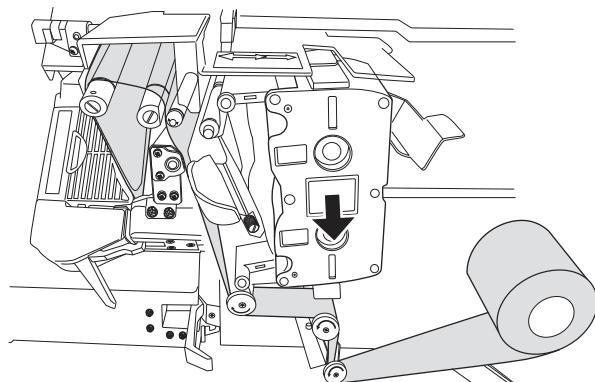
## 8. Close the upper door.

- Close the upper door while holding its handle.

# Printer head

If the print is so light even after ink ribbon replacement, clean the printer head.

\*Turn [OFF] the breaker of the packing machine in advance.



## 1. Remove the ink ribbon.

- See Page 57~59 for the removal of the ink ribbon.

## 2. Clean the printer head.

- Wipe the surface of the printer head with an alcohol-moistened printer head cleaner (provided).

### CAUTION

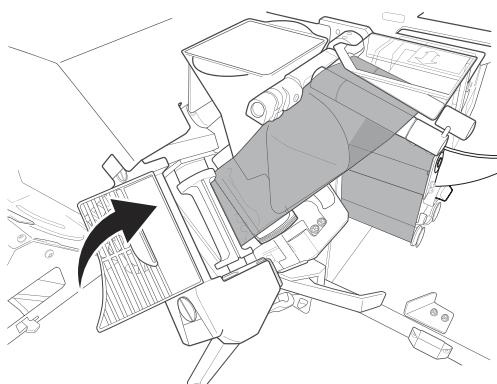
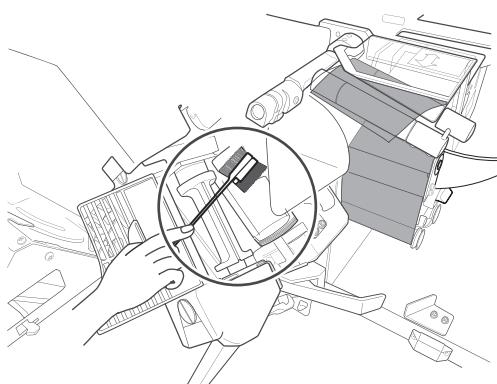
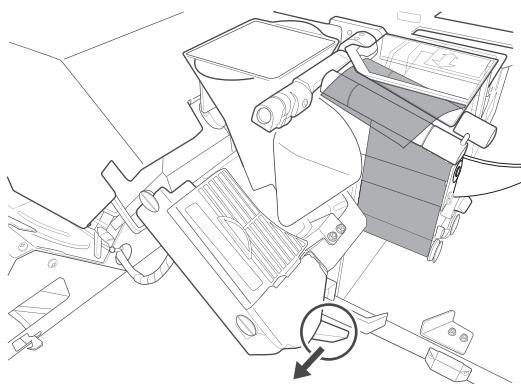
Be sure to turn off the breaker of the packing machine before using alcohol.

## 3. Attach an ink ribbon.

- See Page 59 for the attachment of the ink ribbon.

# Heater roller

If the paper twists around the heater roller, its laminate may stick to the heater roller. If this happens, clean the heater roller to remove the attached laminate.



## 1. Open the heater roller.

- Open the heater roller and then remove the packing paper.
- Then remove the last hopper.

## 2. Clean the heater roller.

- Remove dirt from the heater roller using the heater roller cleaning brush (provided). Clean it while rotating it by pressing the [Heater Roller RW] switch.

### CAUTION

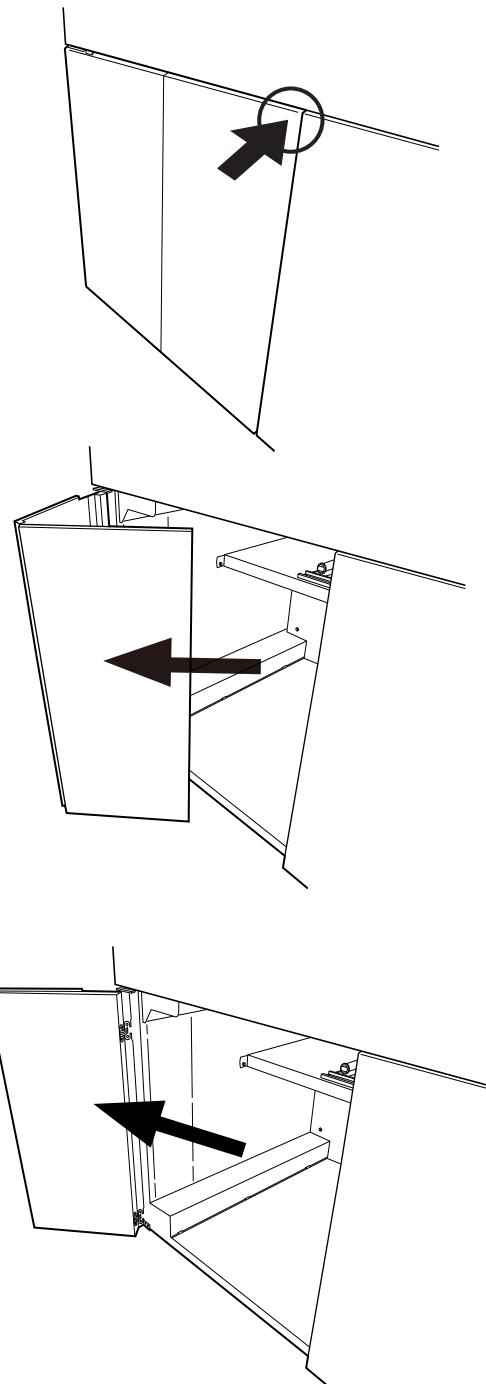
Do not touch the surface of the heater roller as its surface becomes very hot.

## 3. Close the heater roller.

- Route the packing paper before closing the heater roller.
- Then attach the last hopper.

# Tablet feed pipe

Periodically clean the tablet feed pipe interior since a minute amount of powder is left within the pipe when the medicine is packaged

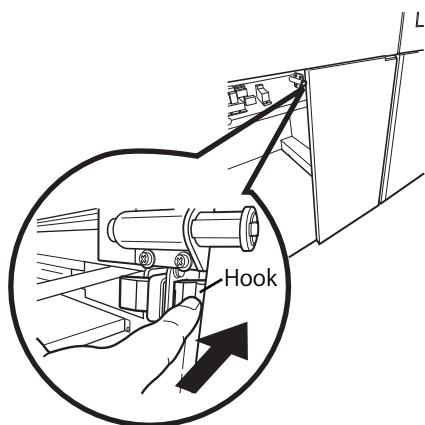


1 . Open the slide unit bottom left door.

- Lightly press the part indicated with PUSH on the left door (acrylic).

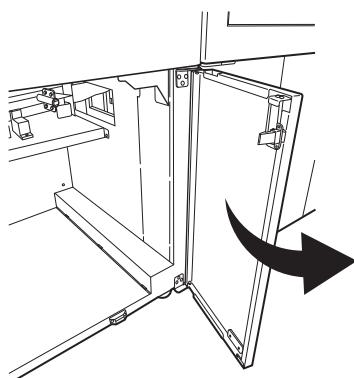
- Fold the door along the joint and pull it toward this side.

- Open the left door (acrylic).

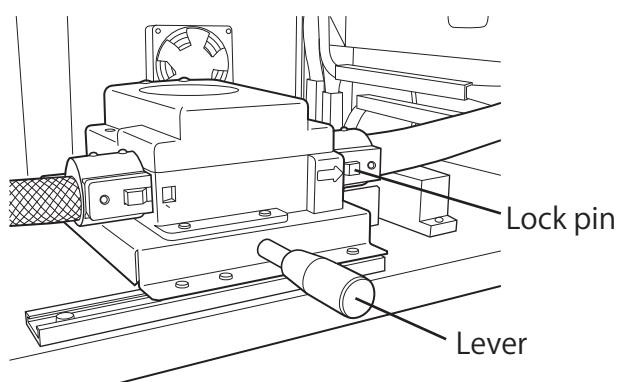


2. Open the slide unit bottom right door.

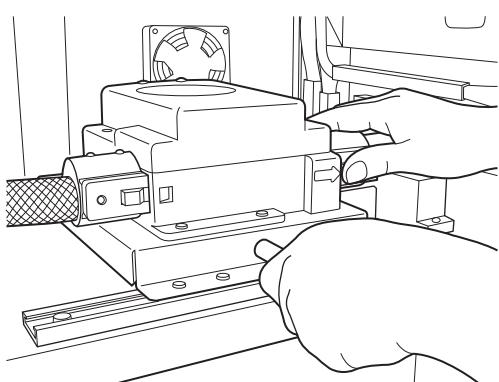
- Press the hook on the right door top.



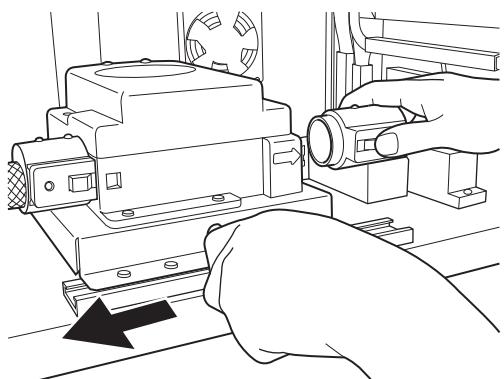
- Open the right door.



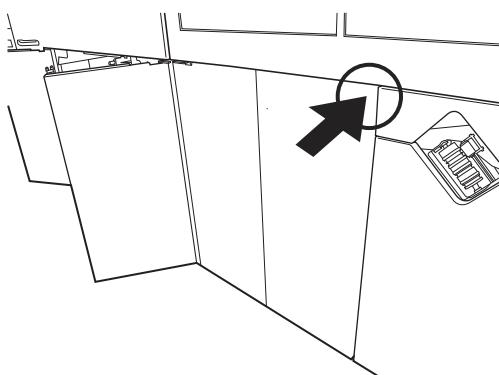
3. Remove the tablet feed pipe from the standby unit.



- Hold the lever on the standby case base and press the standby socket lock pin.

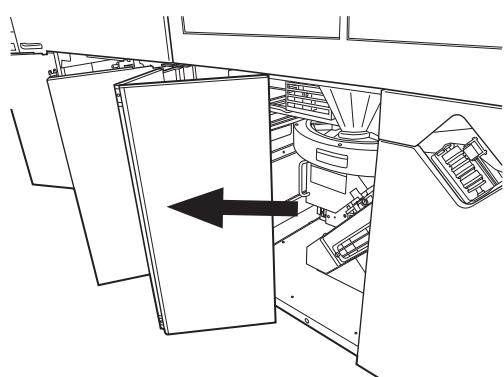


- Move the standby unit to the left, while pressing the standby socket lock pin, and remove the pipe.

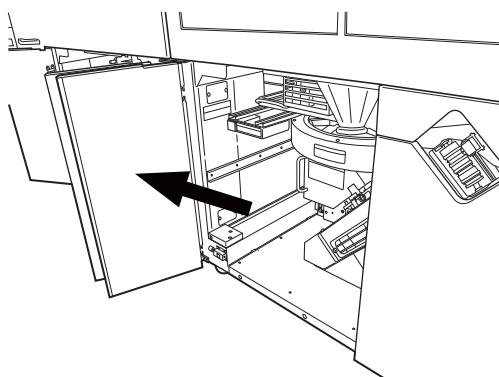


#### 4. Open the body bottom left door.

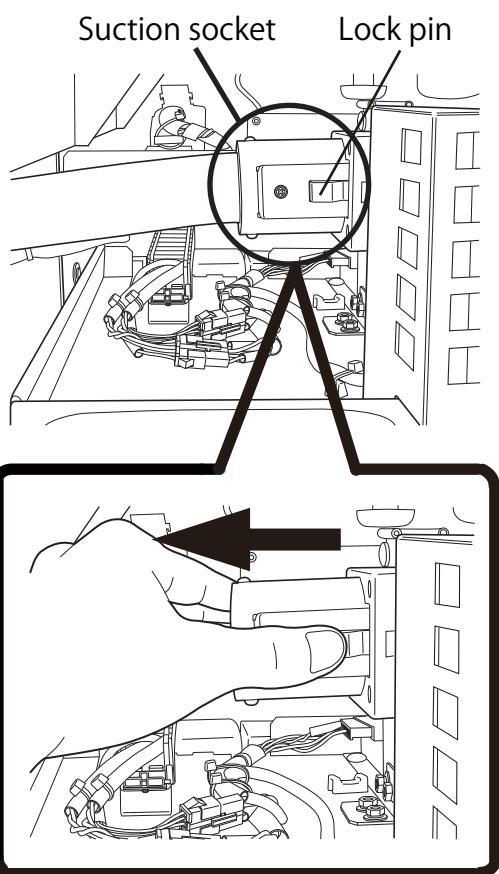
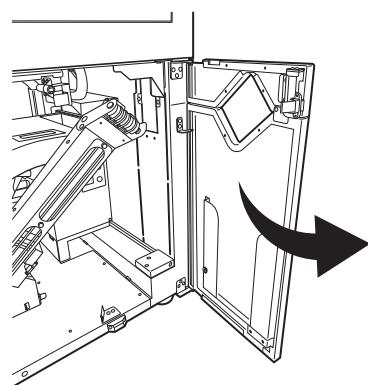
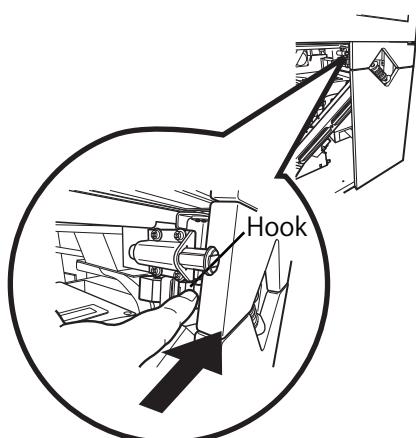
- Lightly press the part indicated with PUSH on the left door (acrylic).



- Fold the door along the joint and pull it toward this side.



- Open the left door (acrylic).



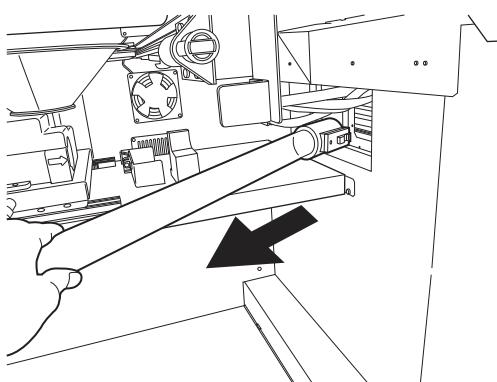
5 . Open the body bottom right door.

- Press the hook on the right door top.

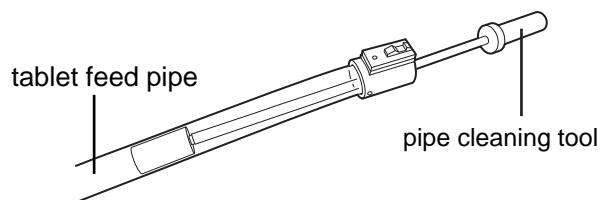
- Open the right door.

6 . Remove the tablet feed pipe from the box unit.

- Move and remove the suction socket toward the left, while pressing the lock pin.

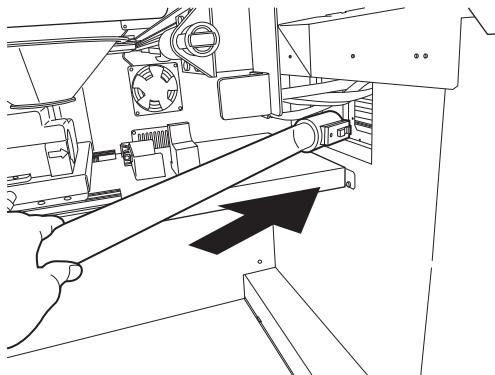


7 . Carrier the tablet feed pipe.



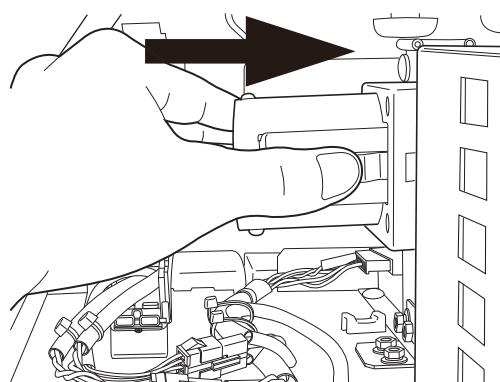
8 . Clean the tablet feed pipe.

- Clean the tablet feed pipe interior using the attached pipe cleaning tool.

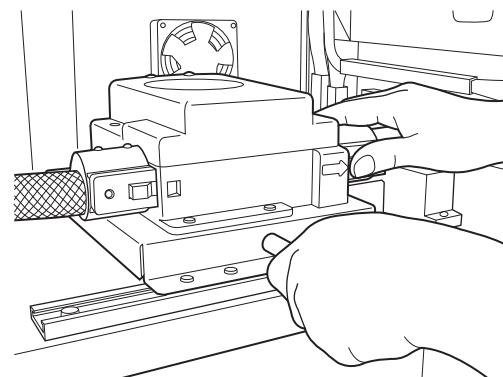
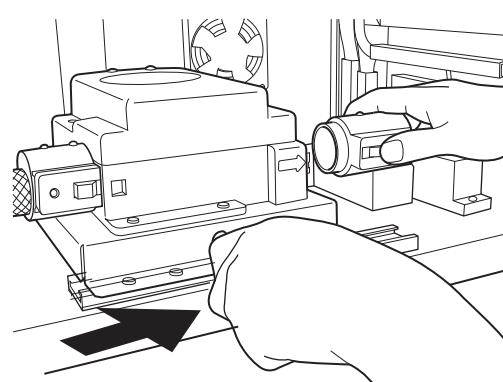
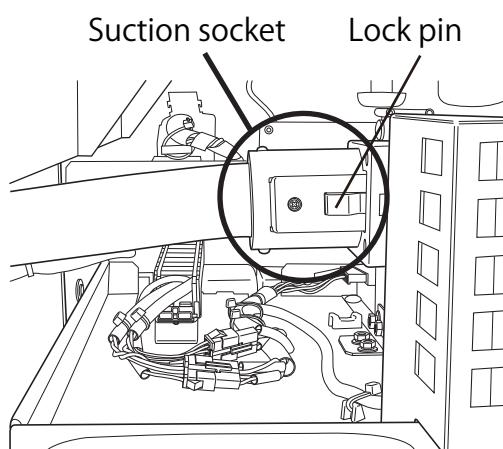


9 . Return the tablet feed pipe to the previous position.

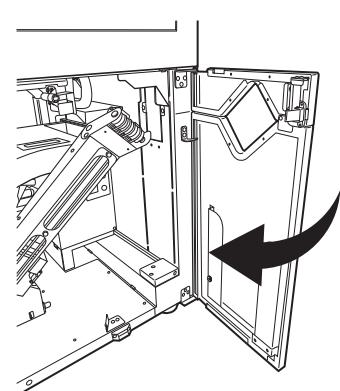
- Pass the tablet feed pipe to the body unit through the slide unit bottom.



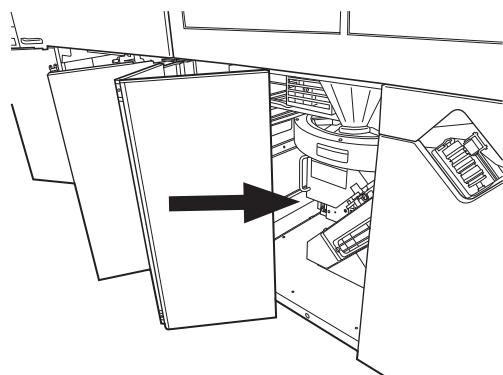
10. Install the tablet feed pipe on the box unit.



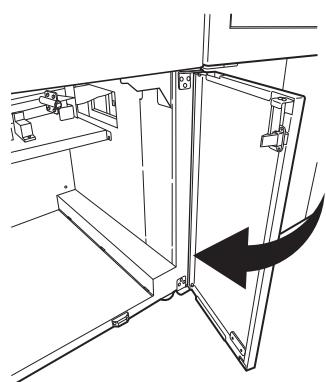
11. Install the tablet feed pipe on the standby unit.



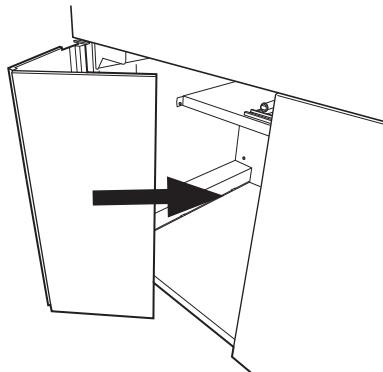
12. Close the body bottom right door.



13. Close the body bottom left door.



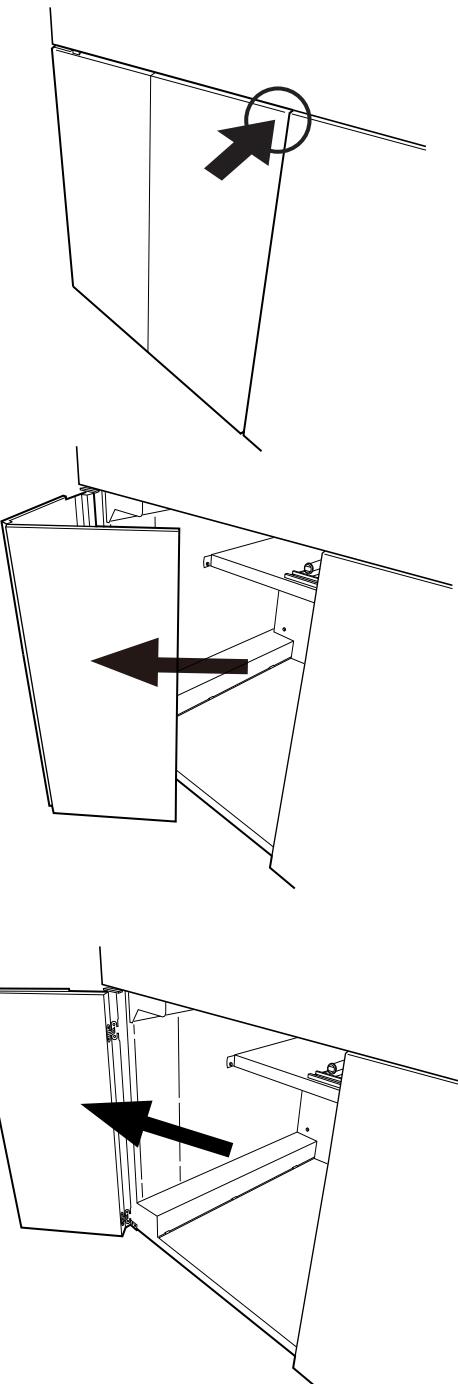
14. Close the slide unit bottom right door.



15. Close the slide unit bottom left door.

# Box unit

Minutes when the drug packaging, a small amount of powder inside the unit will remain BOX, please clean regularly.

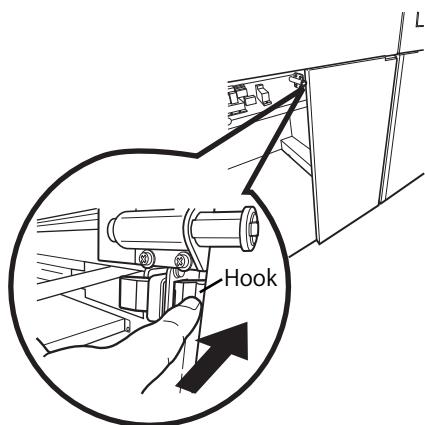


1 . Open the slide unit bottom left door.

- Lightly press the part indicated with PUSH on the left door (acrylic).

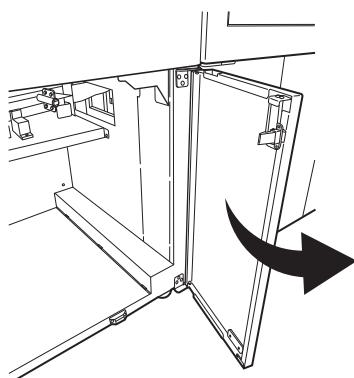
- Fold the door along the joint and pull it toward this side.

- Open the left door (acrylic).

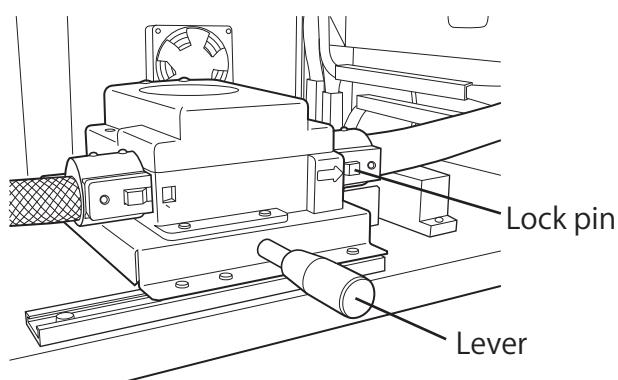


2. Open the slide unit bottom right door.

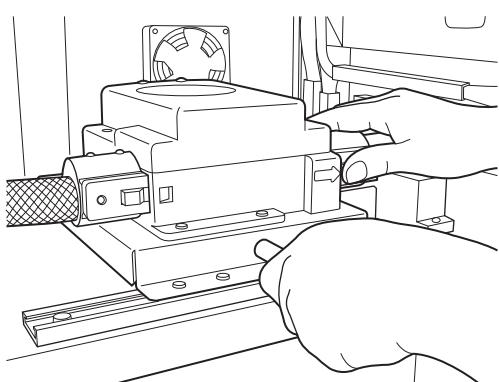
- Press the hook on the right door top.



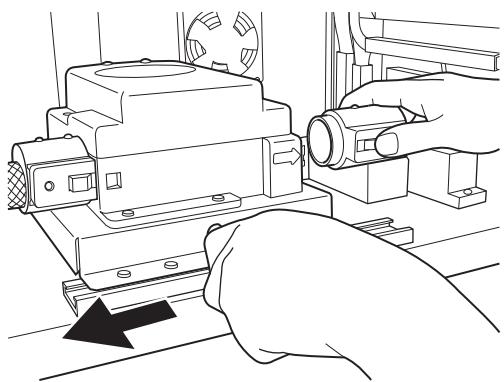
- Open the right door.



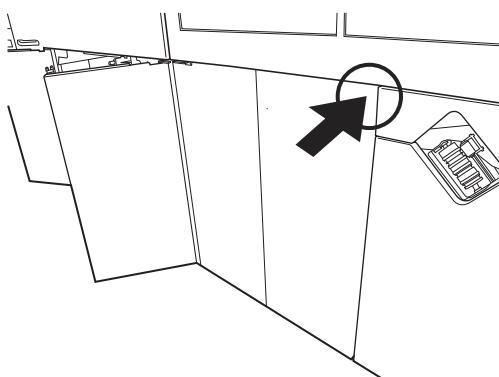
3. Remove the tablet feed pipe from the standby unit.



- Hold the lever on the standby case base and press the standby socket lock pin.

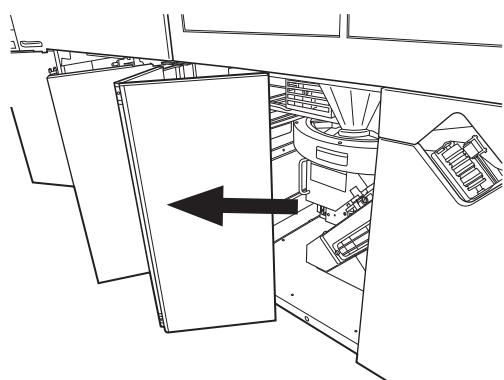


- Move the standby unit to the left, while pressing the standby socket lock pin, and remove the pipe.

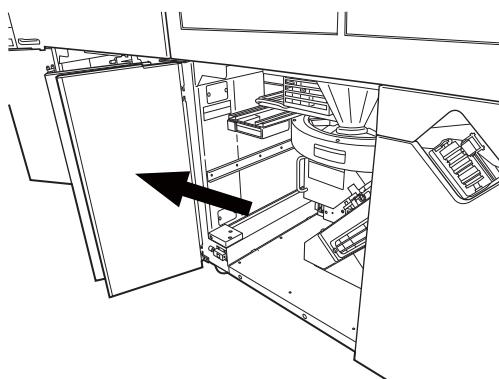


#### 4. Open the body bottom left door.

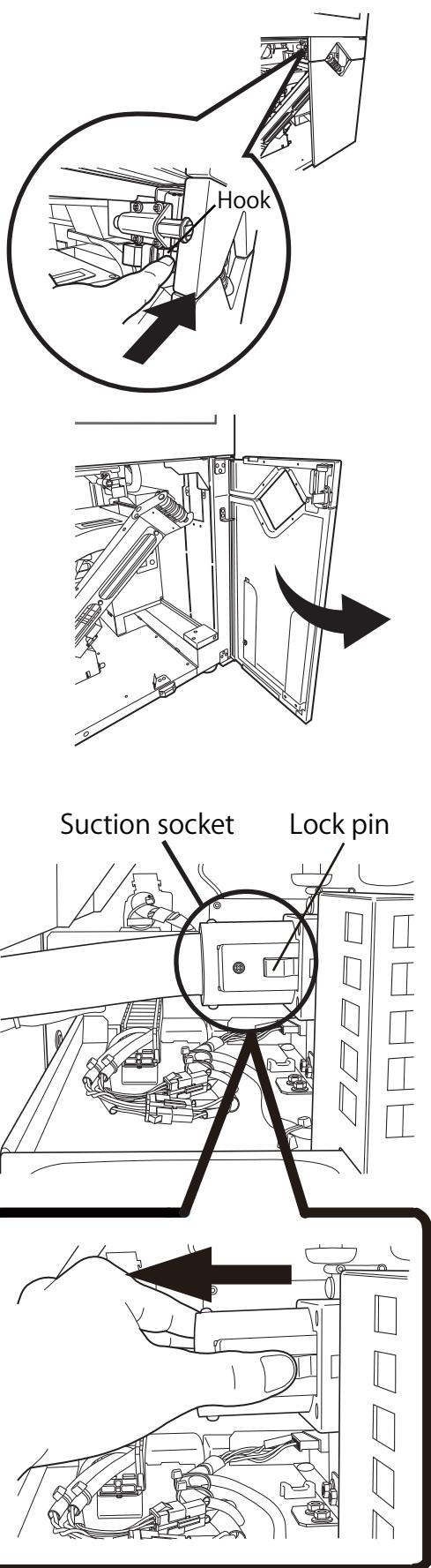
- Lightly press the part indicated with PUSH on the left door (acrylic).



- Fold the door along the joint and pull it toward this side.



- Open the left door (acrylic).



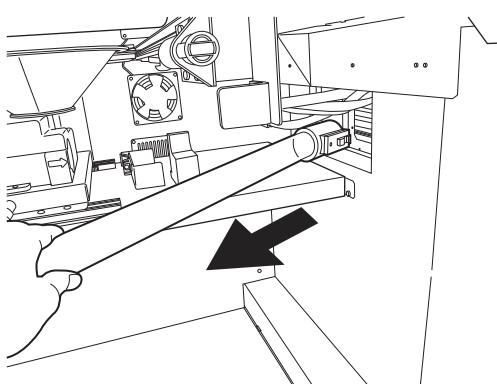
5 . Open the body bottom right door.

- Press the hook on the right door top.

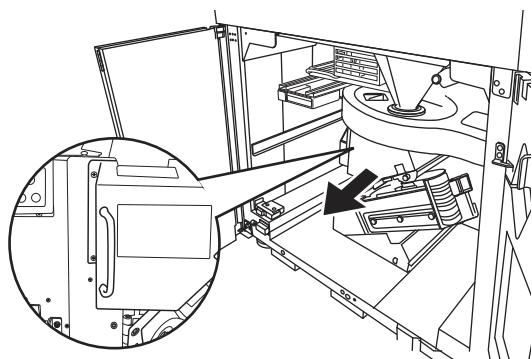
- Open the right door.

6 . Remove the tablet feed pipe from the box unit.

- Move and remove the suction socket toward the left, while pressing the lock pin.

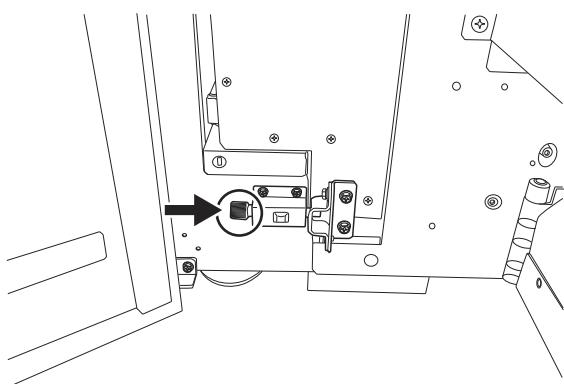


7 . Carrier the tablet feed pipe.

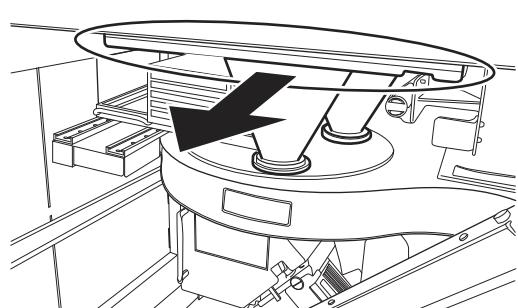


8 . Pull the packing base.

- Pull the packing base while holding its handle.

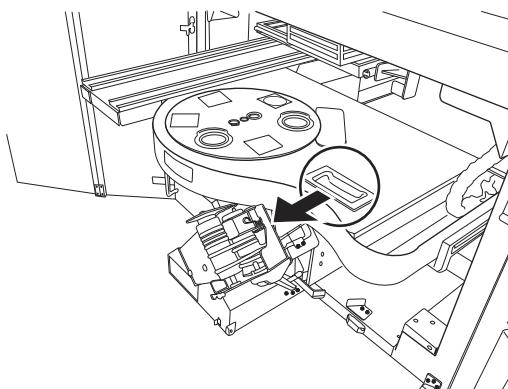


- Lock the packing base.



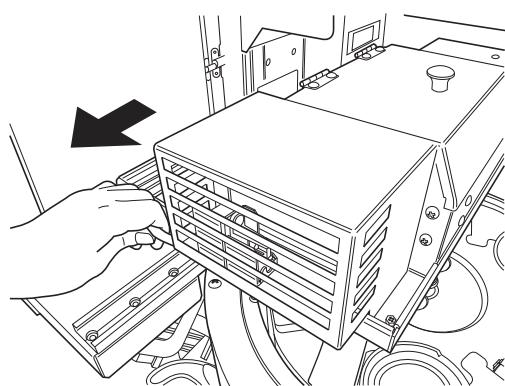
9 . Pull the large hopper.

- Pull the large hopper while holding its frame.



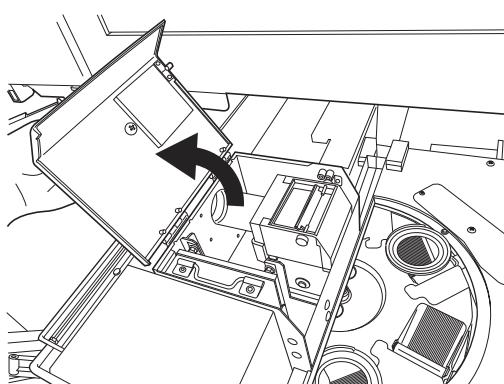
10. Pull the revolver unit.

- Hold the revolver unit handle and pull out the revolver unit toward this side.



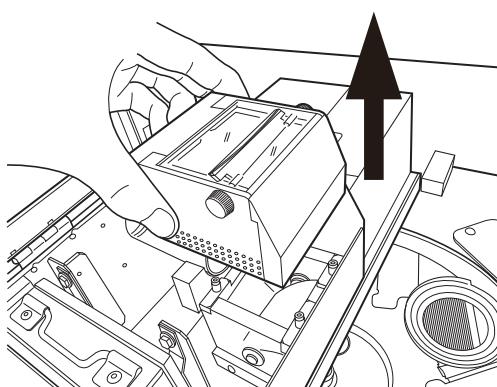
11. Pull out the suction base unit.

- Hold the suction base unit handle and pull out the suction base unit toward this side.

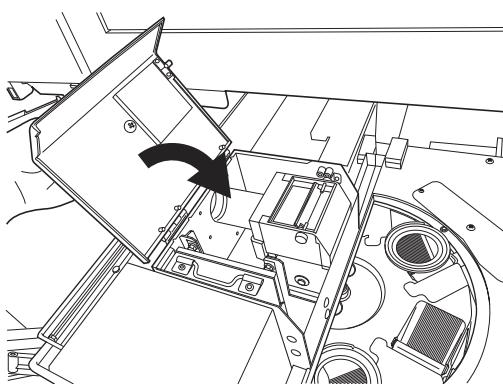
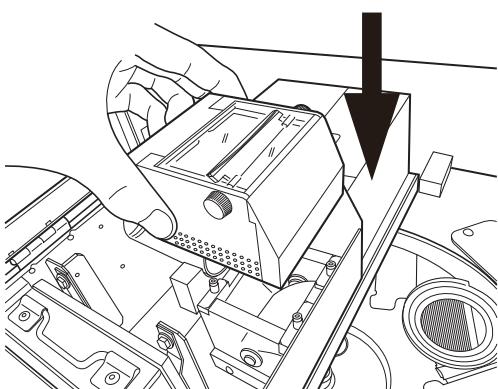
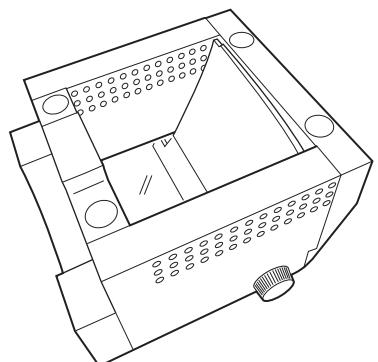
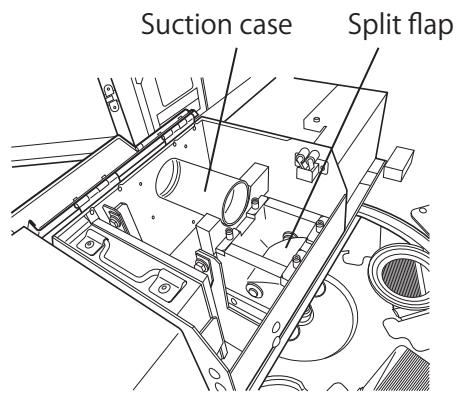


12. Open the box cover.

- Hold the box cover knob and open the cover.



13. Remove the case split valve.



#### 14. Clean the case and split suction valve

- Wipe soil away from the suction case interior using soft cloth soaked with water. Then securely wipe water away from the case interior with soft dry cloth.
- Wipe soil away from the split flap interior using soft cloth soaked with water. Then securely wipe water away from the case interior with soft dry cloth.

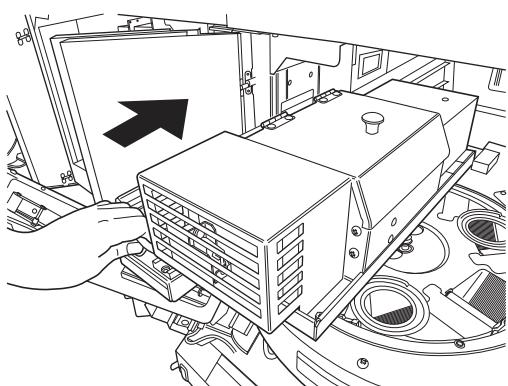
#### 15. Clean the case split valve .

- Wipe soil away from the case split valve interior using soft cloth soaked with water. Then securely wipe water away from the case interior with soft dry cloth.

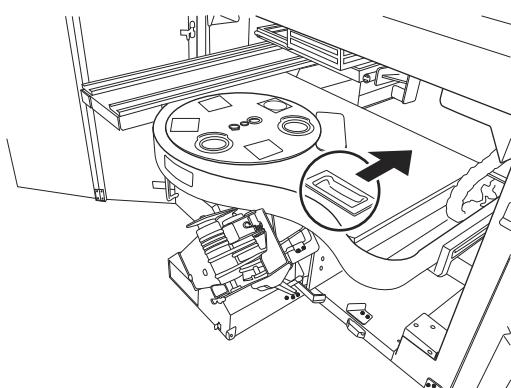
#### 16. Replace the case split valve .

#### 17. Close the box cover.

- Hold the box cover knob and close the cover.

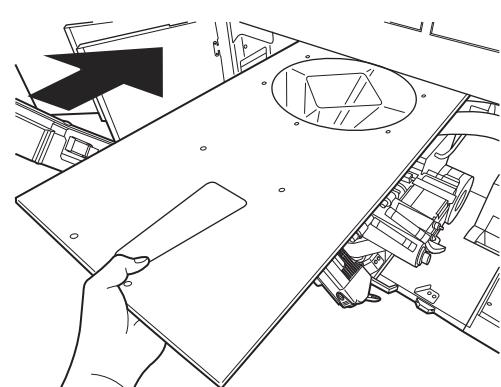


18. Return the suction base unit to the previous position.



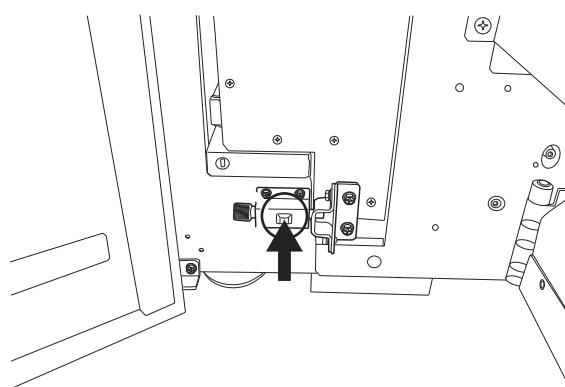
19. Return the revolver unit to the previous position.

- Hold the revolver unit handle and return the revolver unit to the previous position, while slowly pushing the unit until it clicks.



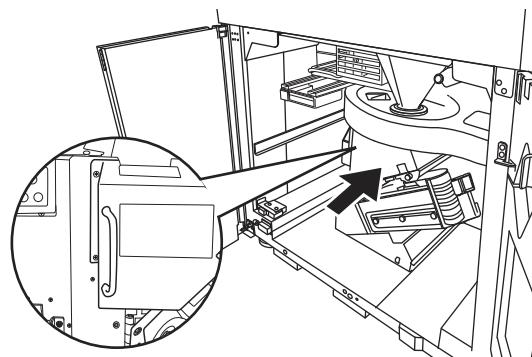
20. Return the large hopper to the previous position.

- Slowly push the large hopper securely into the innermost position.

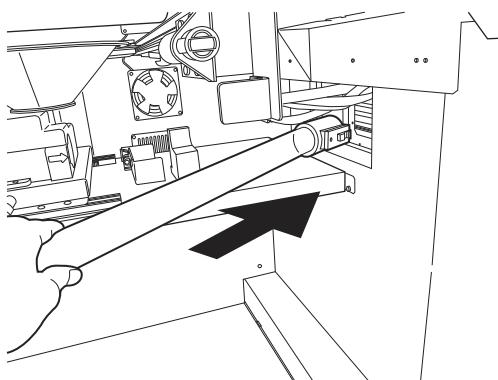


21. Return the packaging table to the previous position.

- Unlock the packaging table.

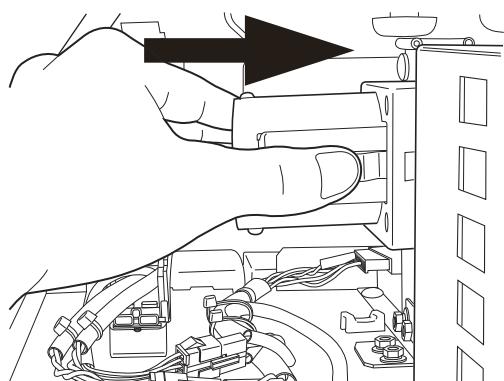


- Hold the packaging table handle and slowly push the packaging table into the previous position.



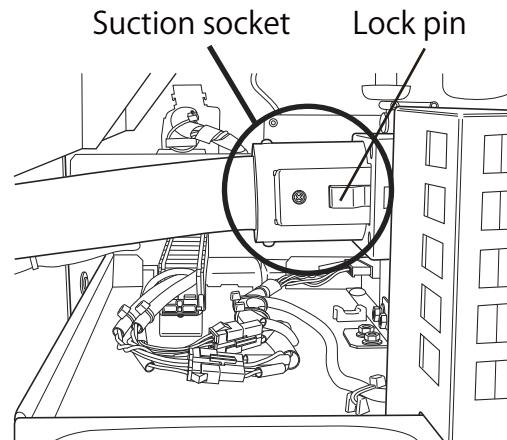
## 22. Install the tablet feed pipe.

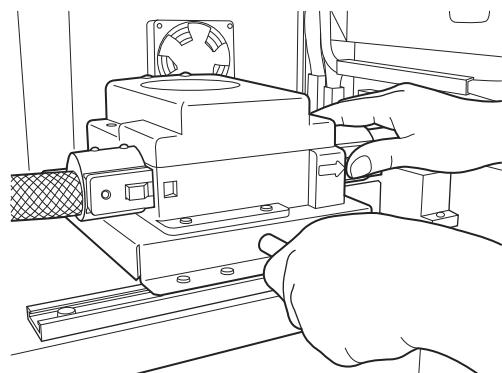
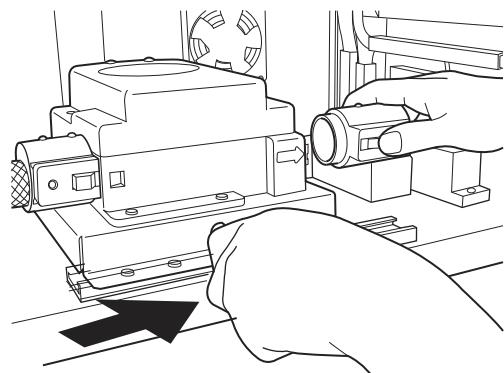
- Pass the tablet feed pipe to the body unit through the slide unit bottom.



## 23. Install the tablet feed pipe on the box unit.

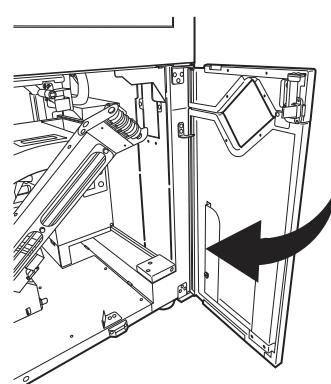
- Press the suction socket lock pin and fit the socket to the removable suction case.



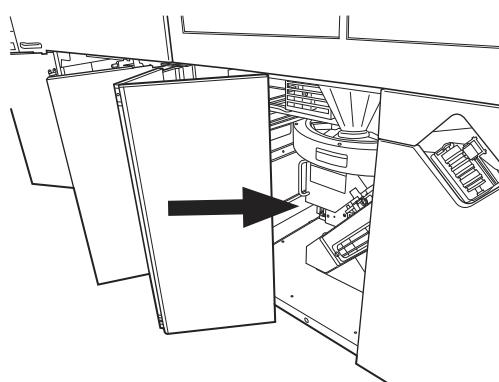


24. Install the tablet feed pipe on the standby unit.

- Move the standby unit to the right and fit it to the standby case, while pressing the standby socket lock pin.

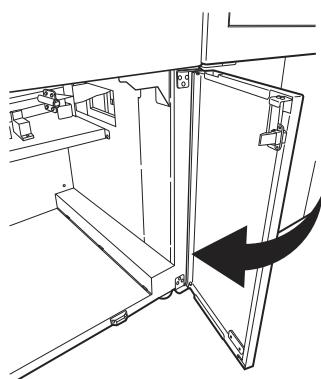


25. Close the body bottom right door.

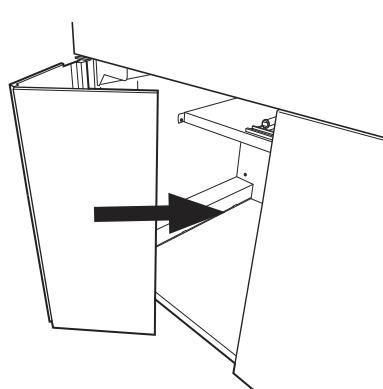


26. Close the body bottom left door.

27. Close the slide unit bottom right door.

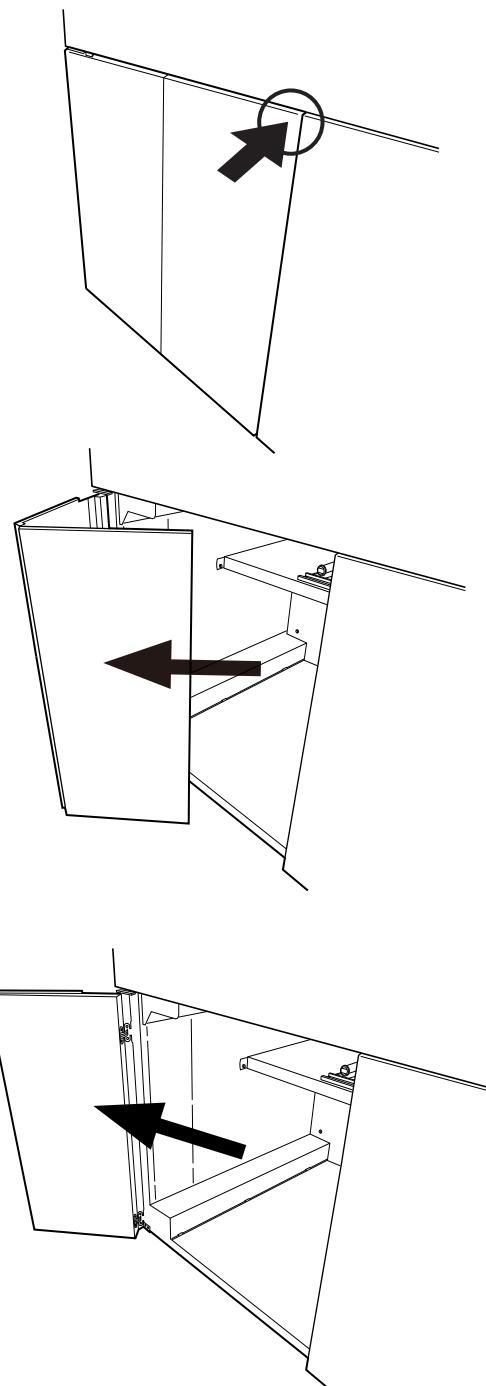


28. Close the slide unit bottom left door.



# Standby valve unit

Minutes when the drug packaging, so waiting a valve inside the unit a small amount of powder, please care on a regular basis.

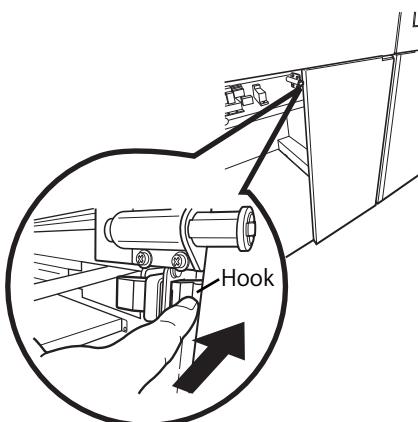


1 . Open the slide unit bottom left door.

- Lightly press the part indicated with PUSH on the left door (acrylic).

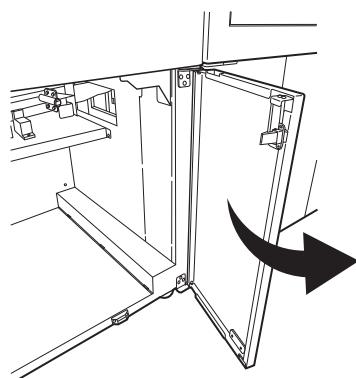
- Fold the door along the joint and pull it toward this side.

- Open the left door (acrylic).

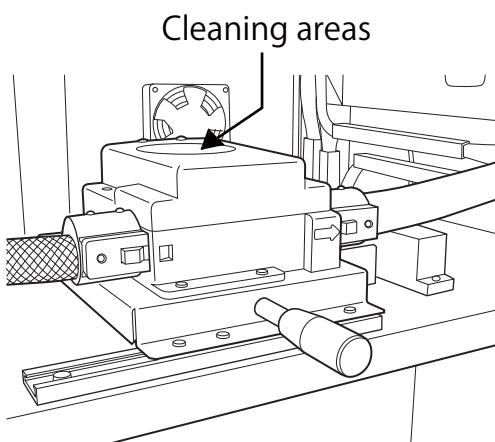


2 . Open the slide unit bottom right door.

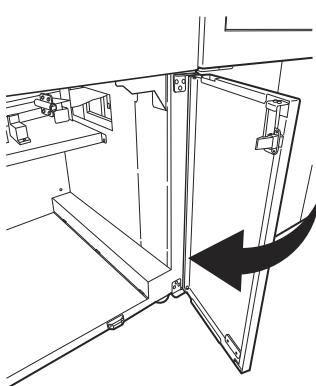
- Press the hook on the right door top.



- Open the right door.

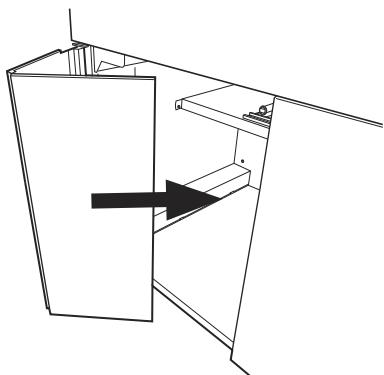


3 . Wipe the standby valve unit standby hopper using soft cloth soaked with water.



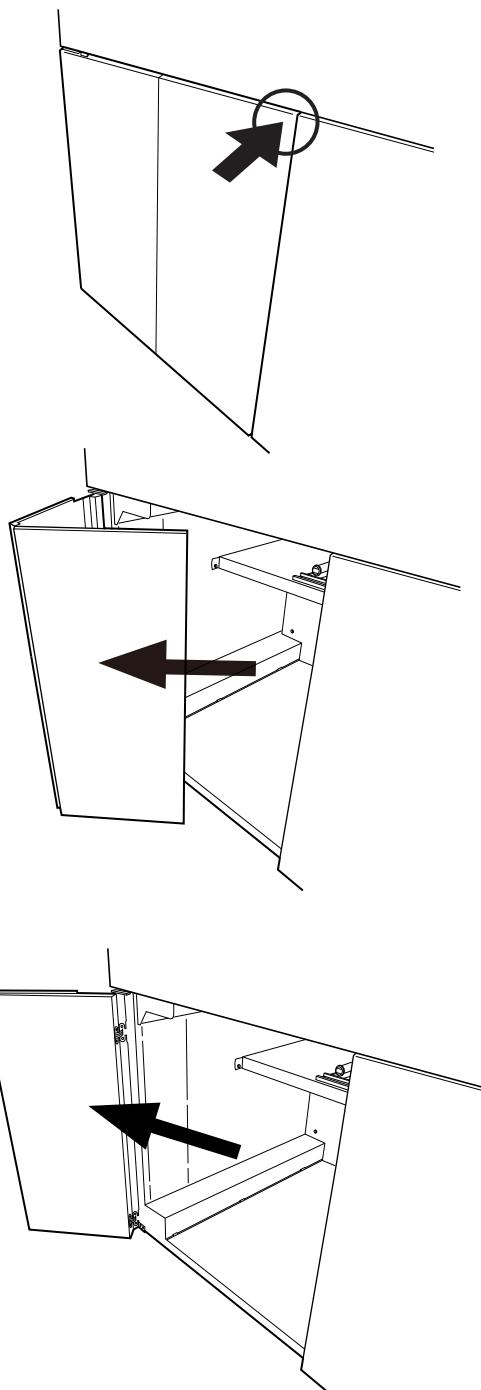
4 . Close the slide unit bottom right door.

5 . Close the slide unit bottom left door.



# Procedure for replacing the prefilter

Minutes when the drug packaging, so a small amount of powder adhering to the filter, please replace regularly.

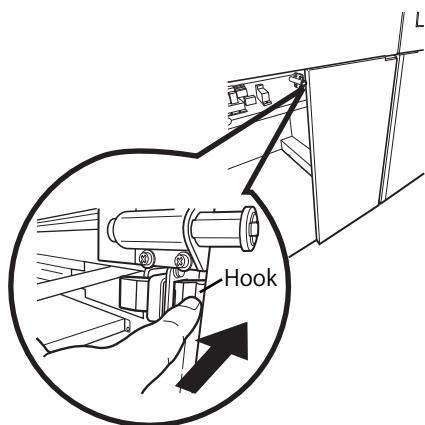


1 . Open the slide unit bottom left door.

- Lightly press the part indicated with PUSH on the left door (acrylic).

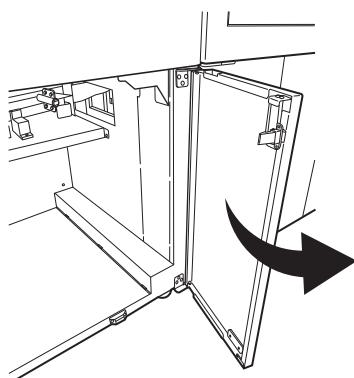
- Fold the door along the joint and pull it toward this side.

- Open the left door (acrylic).

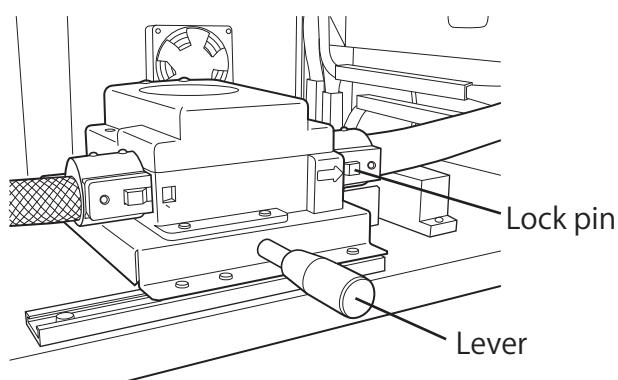


2. Open the slide unit bottom right door.

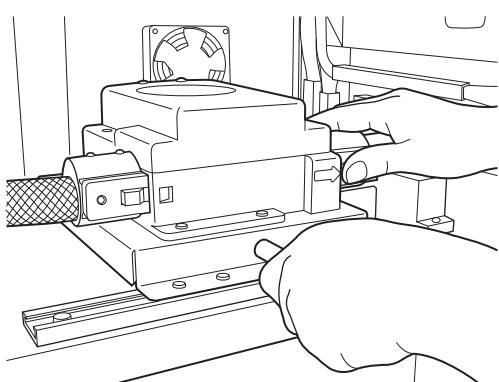
- Press the hook on the right door top.



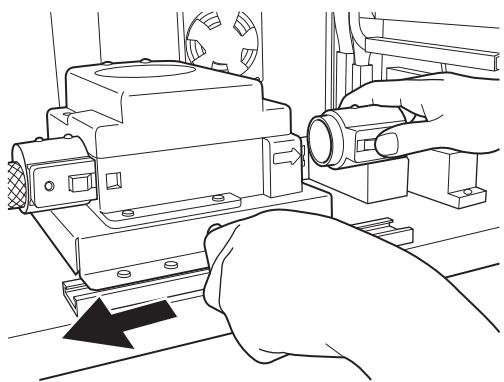
- Open the right door.



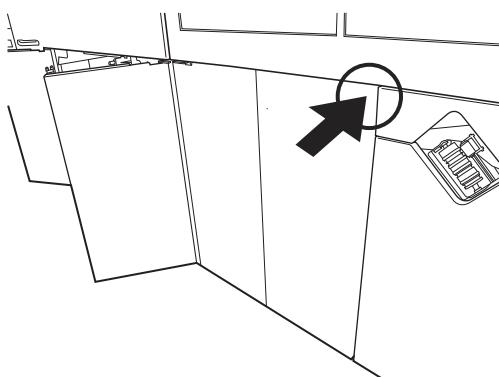
3. Remove the tablet feed pipe from the standby unit.



- Hold the lever on the standby case base and press the standby socket lock pin.

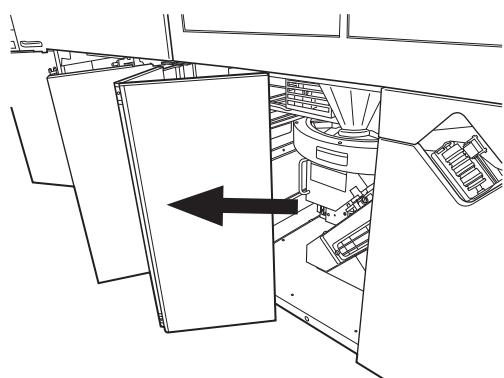


- Move the standby unit to the left, while pressing the standby socket lock pin, and remove the pipe.

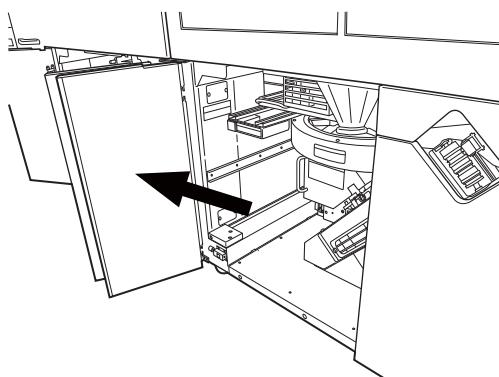


#### 4. Open the body bottom left door.

- Lightly press the part indicated with PUSH on the left door (acrylic).

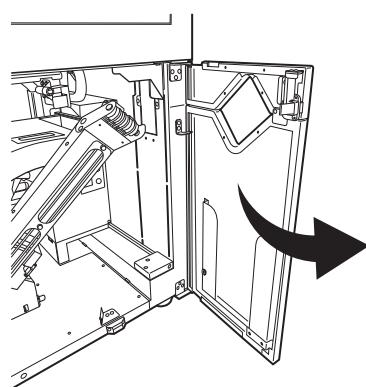
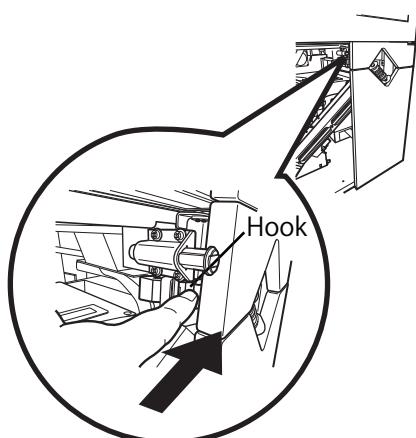


- Fold the door along the joint and pull it toward this side.

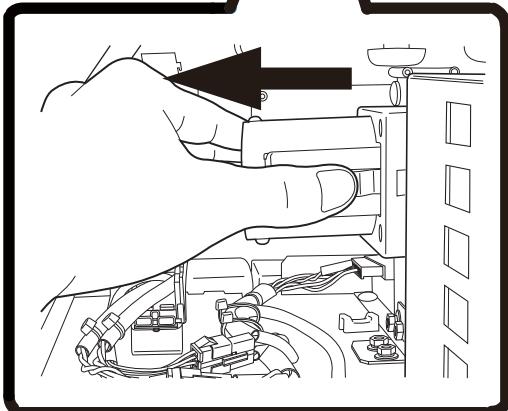
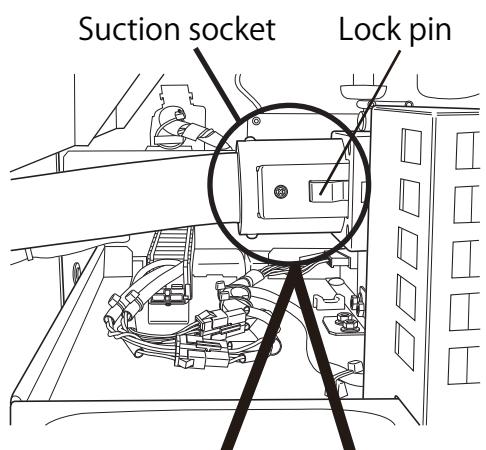


- Open the left door (acrylic).

5 . Open the body bottom right door.  
• Press the hook on the right door top.

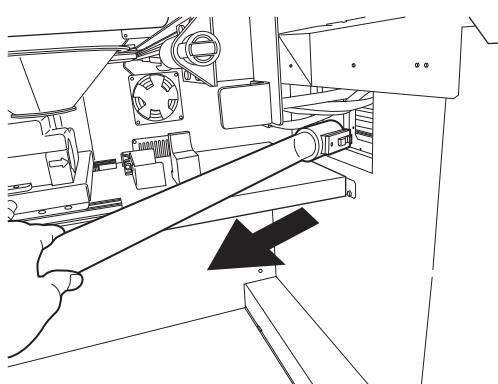


• Open the right door.

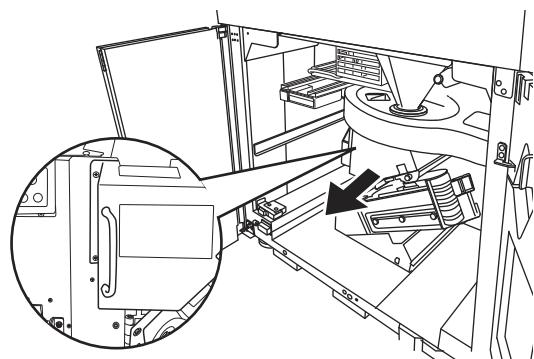


6 . Remove the tablet feed pipe from the box unit.

• Move and remove the suction socket toward the left, while pressing the lock pin.

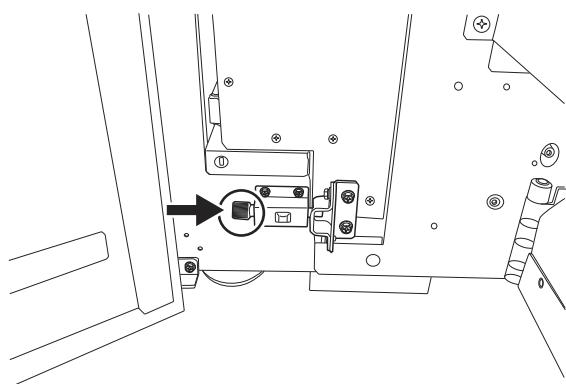


7 . Carrier the tablet feed pipe.

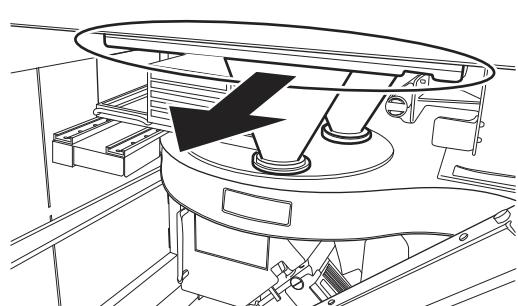


8 . Pull the packing base.

- Pull the packing base while holding its handle.

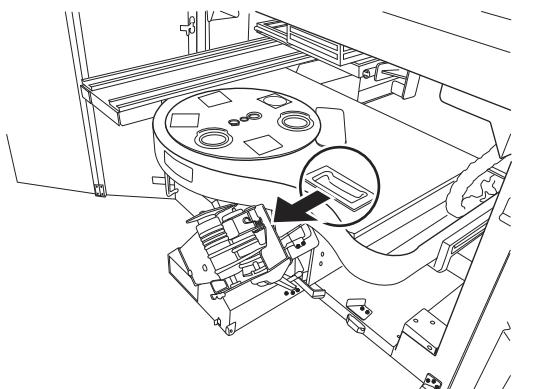


- Lock the packing base.



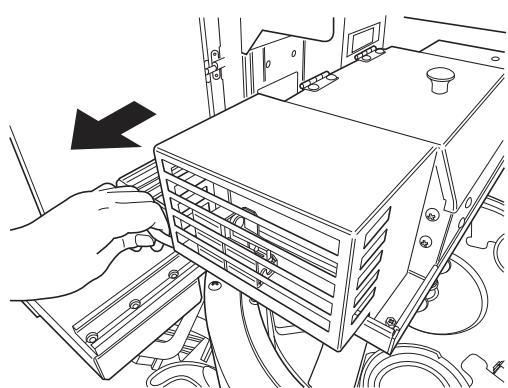
9 . Pull the large hopper.

- Pull the large hopper while holding its frame.



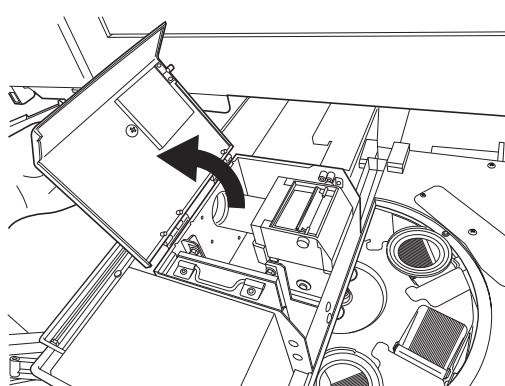
10. Pull the revolver unit.

- Hold the revolver unit handle and pull out the revolver unit toward this side.



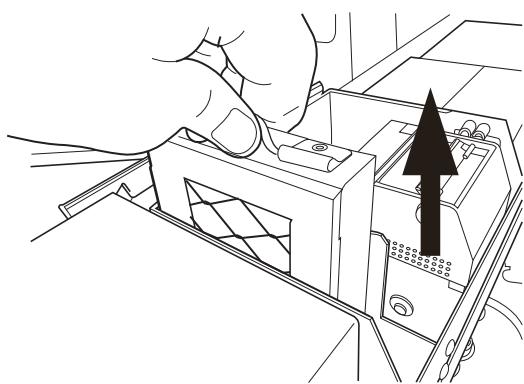
11. Pull out the suction base unit.

- Hold the suction base unit handle and pull out the suction base unit toward this side.



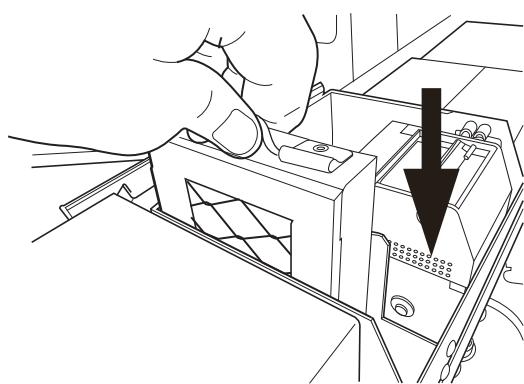
12. Open the box cover.

- Hold the box cover knob and open the cover.



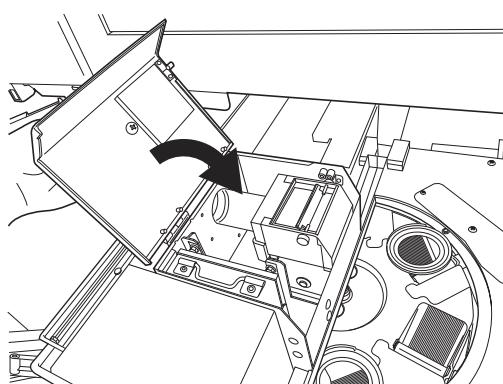
13. Replace the box prefilter.

- Hold the box prefilter handle and lift and remove the box prefilter.



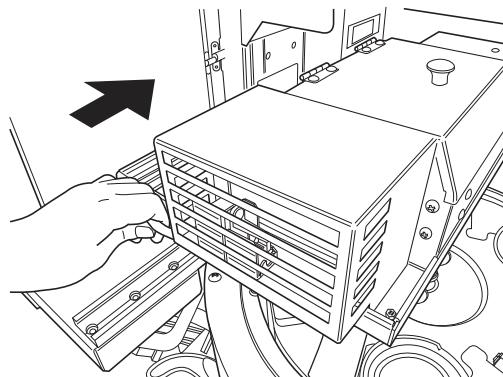
#### 14. Install a new box prefilter

- Install the rubber cover so it faces the front.

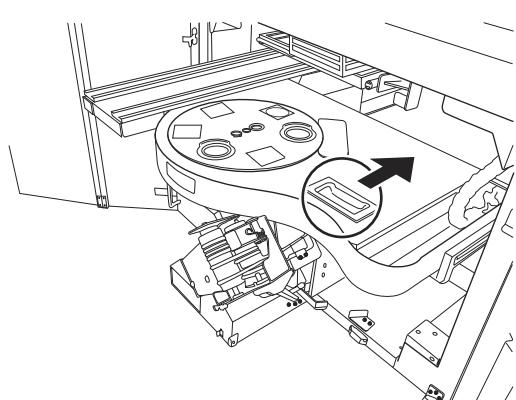


#### 15. Close the box cover.

- Hold the box cover knob and close the cover.

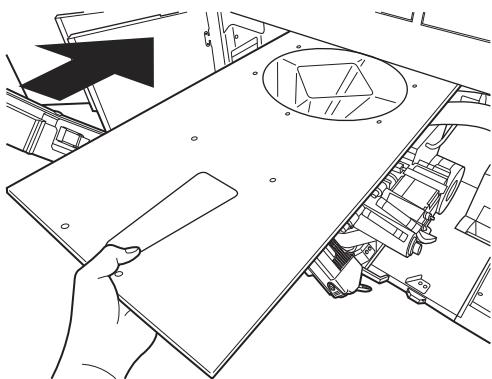


#### 16. Return the suction base unit to the previous position.



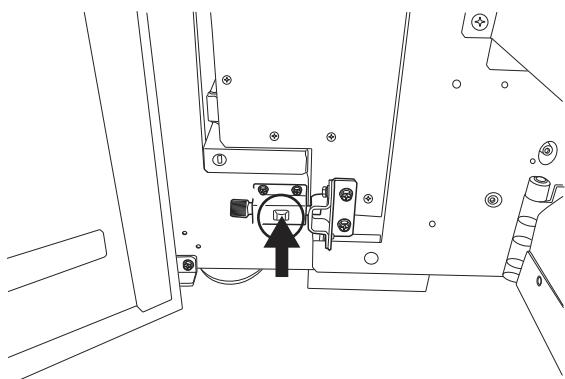
#### 17. Return the revolver unit to the previous position.

- Hold the revolver unit handle and return the revolver unit to the previous position, while slowly pushing the unit until it clicks.



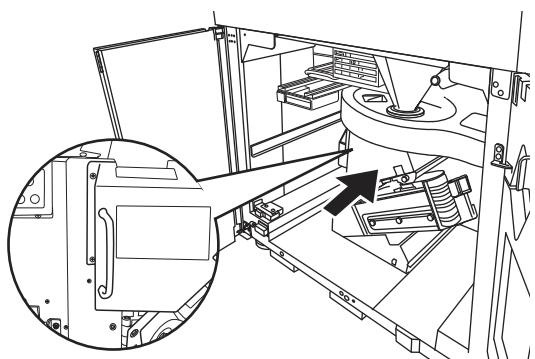
18. Return the large hopper to the previous position.

- Slowly push the large hopper securely into the innermost position.

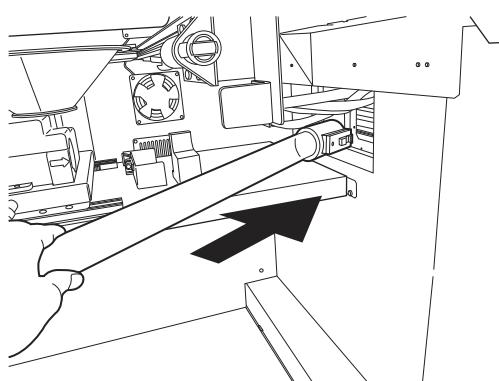


19. Return the packaging table to the previous position.

- Unlock the packaging table.

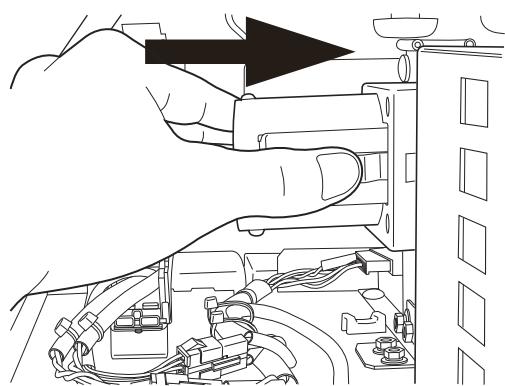


- Hold the packaging table handle and slowly push the packaging table into the previous position.



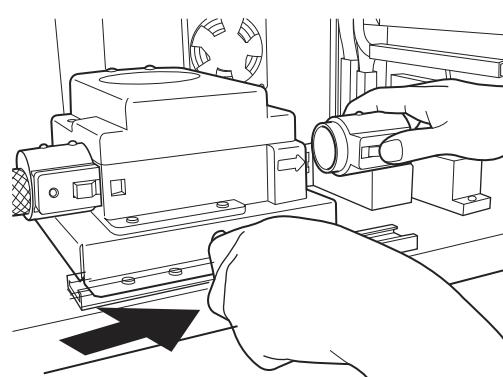
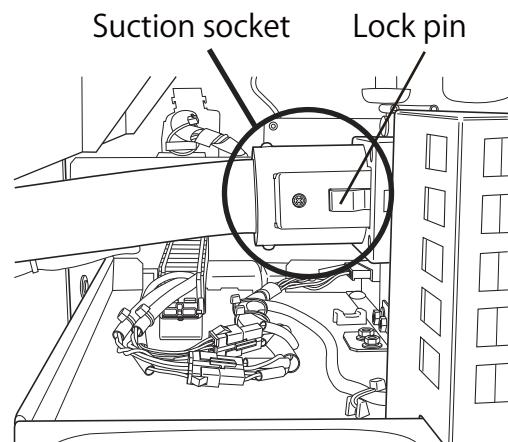
20. Install the tablet feed pipe.

- Pass the tablet feed pipe to the body unit through the slide unit bottom.



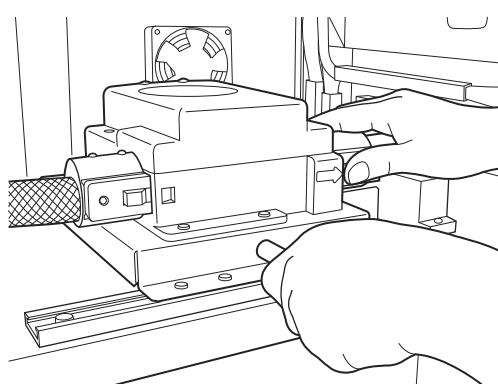
21. Install the tablet feed pipe on the box unit.

- Press the suction socket lock pin and fit the socket to the removable suction case.

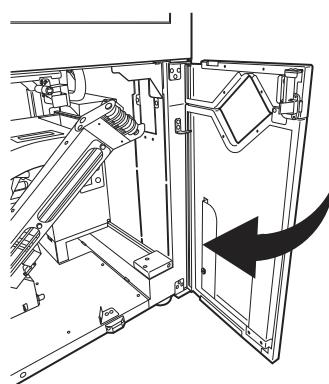


22. Install the tablet feed pipe on the standby unit.

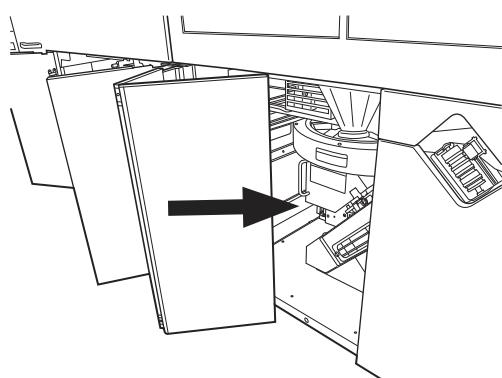
- Move the standby unit to the right and fit it to the standby case, while pressing the standby socket lock pin.



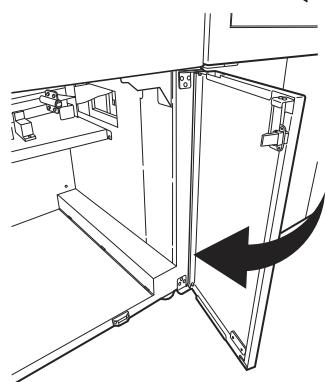
23. Close the body bottom right door.



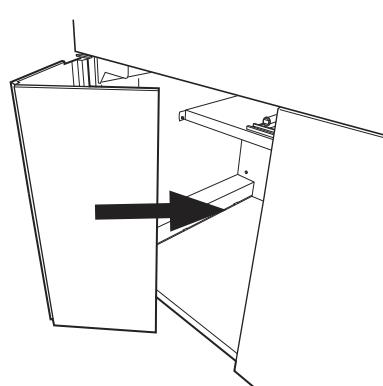
24. Close the body bottom left door.



25. Close the slide unit bottom right door.



26. Close the slide unit bottom left door.



# Consumables

## (Consumables List)

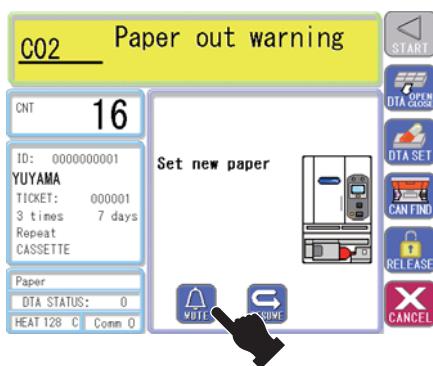
No.	Parts	Replacement Interval (Recommended)
1	Heater Roller	3 years
2	Blade	1 year
3	Printer Head	1 year
4	Cutter	3 years
5	Guide Roller	1 year
6	Final Hopper	3 years
7	Dust Collection Filter	1 year
8	Conveyor Belt	1 year
9	Fan Filter	1 year
10	Filter	1 year

# Troubleshooting

Symptom	Cause	Measure to be taken
The machine does not operate.	The power cord is disconnected.	Insert the power cord plug all the way.
	The breaker is [OFF].	Turn [ON] the breaker.
	The heater roller is being heated rapidly.	Wait until the rapid heating is completed.
The edge of the paper is displaced.	A laminate is attached to the heater roller.	Remove the laminate.
	The packing paper is not attached properly.	Reattach the paper.
The error cannot be released even after packing paper has been refilled.	The packing paper is not routed to the paper out sensors.	Route the packing paper to the paper out sensors.
The print is so light even after the ink ribbon has been replaced with a new one.	The printer head is dirty.	Clean the printer head.
The barcode cannot be read.	The barcode reader lamp is OFF.	Press the [Barcode Reader Flash] switch.

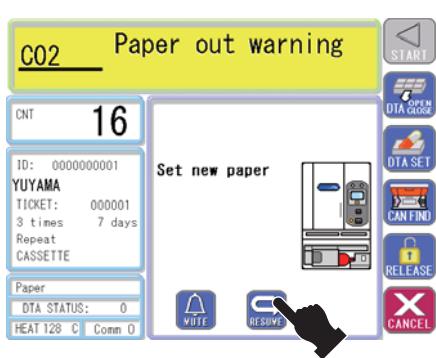
# Warning errors

If you misuse the machine or any failure occurs in the packing machine, warning (error) numbers and messages are displayed on the touch panel. After stopping the sound alarm, take measures for the warnings and errors. If you cannot release errors even after you have taken measures, contact with your nearest Yuyama's sales office.



## 1. Touch [MUTE].

- The sound alarm stops.
- Take measures for the warning (or the error). Read the next page for how to take measures for each warning (error).



## 2. Touch [RESUME].

- The packing machine restarts.
- If the packing machine does not restart, check the measures to be taken again.

■ List of Warnings

Display number	Description	Cause	Measure to be taken
C00	Paper jam warning	The paper is jammed in the heater roller.	Remove the jammed paper and then touch [RESUME].
C02	Paper out warning	The paper is out.	Replace the paper with new one and then touch [RESUME].
C03	Remaining paper warning	The remaining paper is insufficient.	Replace the paper with new one.
C04	LPU out position warning	The packing unit is open.	Insert the paper all the way and then touch [RESUME].
C05	DTA UT position warning	The DTA unit is open.	Insert the DTA unit all the way and touch [RESUME].
C06	Ink ribbon empty warning	The ink ribbon is out.	Replace the ink ribbon with a new one.
C07	Ribbon winding warning	The ink ribbon is not winded properly.	Set the ink ribbon at the correct position and then touch [RESUME].
C08	Cassette empty warning	There is no tablet in the cassette.	Refill tablets in the cassette.
C09	Cassette position warning	The cassette has not been inserted properly.	Reinsert the cassette and then touch [RESUME].
C10	Cassette ID warning	The numbers of the attached cassettes are duplicated.	Insert the cassette into the correct position (with a flashing lamp) and then touch [RESUME].
C11	Cassette set warning	The cassette has been attached to a wrong position.	Insert the cassette into the correct position (with a flashing lamp) and then touch [RESUME].
C12	Ribbon tension warning	The printer head open lever is open.	Close the printer head open lever and then touch [RESUME].
C13	Printer head warning		
C14	Paper core set warning	The paper is not set to the paper core properly.	Insert the paper all the way and then touch [RESUME].
C15	Printer ready warning	The paper and the ink ribbon are not set properly.	Set the paper or the ink ribbon at the correct position and then touch [RESUME].

■ List of Warnings (continued)

Display number	Description	Cause	Measure to be taken
C16	No DTA tray warning	The DTA tray is not set at the correct position.	Close the DTA tray and then touch [RESUME].
C17	Revolver UT out of pos warning	The revolver is not set at the correct position.	Insert the revolver unit all the way and then touch [RESUME].
C22	Lower door open warning	The lower door is open.	Close the lower door and then touch [RESUME].
C23	Conveyor jam warning	There is a jam in the conveyor.	Remove the jam and then touch [RESUME].
C24	PC version warning	The communication version of the packing machine does not match that of the personal computer.	Contact with your dealer.
C25	Internal version warning	The communication version of the packing machine is not correct.	
C26	Printer head low temp warning	Printing is disabled because the printer head temperature is too low.	Wait until the printer head reaches the suitable temperature.
C28	Slide UT out of position warning	The slide unit is not set at the correct position.	Set the slide unit at the correct position and then touch [RESUME].
C29	Outer carousel limit warning	The outer cylinder is not set at the correct position.	Turn the outer cylinder until the error message is released.
C30	Inner carousel limit warning	The inner cylinder is not set at the correct position.	Turn the inner cylinder until the error message is released.
C31	V-holder out of pos warning	The V-holder is open.	Close the V-holder and then touch [RESUME].
C32	Large hopper out of position warning	The large hopper is not attached to the correct position.	Reattach the large hopper to the correct position and then touch [RESUME].
C33	Slide hopper out of position warning	The slide hopper is not set at the correct position.	Set the slide hopper at the correct position and then touch [RESUME].
C34	Duplicate cassette warning	The cassette number is not set properly.	Set the cassette number correctly and then touch [RESUME].
C36	PC disconnected warning	The personal computer is not connected to the packing machine.	Connect the personal computer to the packing machine.

■ List of Errors

Display number	Description	Part where the error occurred	Measure to be taken	
E00	Roller home error	Heater roller	Remove the jammed paper and drug from the heater roller and then touch [RESUME].	
E04	Heater temp error	Heater roller	Turn off the breaker of the packing machine. After a while, turn off the breaker. *	
E05	Printer head high temp error	Printer head		
E06	Cutter home error	Cutter	Remove the jammed paper and drug from the heater roller and then touch [RESUME].	
E11	Roller alarm error	Heater roller		
E15	Printer board error	Inside the packing machine		
E20	Revolver close position error	Revolver unit	Touch [RESUME]. (If the error cannot be released, turn off and on the breaker.) *	
E21	Revolve middle position error			
E30	Slide upper pusher error	Slide unit (YS-TR-406FDSII)		
E31	Slide lower pusher error			
E32	Slide valve error			
E50	Encoder error	Heater roller		
E61	Outer carousel feed error	Cylinder		
E62	Outer carousel time out error			
E63	Inner carousel feed error			

■ List of Errors (Continued)

Display number	Description	Part where the error occurred	Measure to be taken
E64	Inner carousel time out error	Cylinder	
E70	V-holder error	V-holder	
E71	V-holder error		Touch [RESUME]. (If the error cannot be released, turn off and on the breaker.) *
E72	DTA open position error	DTA unit	
E73	DTA close position error		
E74	DTA tray retry error		
E75	DTA cells feed error	DTA cells	Reattach the DTA cells table to the correct position and then touch [RESUME].
E76	DTA R limit error		Touch [RESUME]. (If the error cannot be released, turn off and on the breaker.) *
E77	Slide plate open position error	DTA slide plate (Under the DTA cells)	
E78	Slide plate close position error		Reattach the DTA cells table to the correct position and then touch [RESUME].
E80	DTA signal error	Inside the packing machine	
E81	V-holder signal error		
E82	Slide signal error		
E83	Cassette signal error		Touch [RESUME]. (If the error cannot be released, turn off and on the breaker.) *
E92	Cassette UT comm. error		

■ List of Errors (Continued)

Display number	Description	Part where the error occurred	Measure to be taken
E93	Internal parity error	Inside the packing machine	
E95	Fill duplicate error	Inside the packing machine or personal computer	Touch [RESUME]. (If the error cannot be released, turn off and on the breaker.) *
E96	Internal comm. error		
E99	EEPROM error	Inside the packing machine	Turn off the breaker of the packing machine. After a while, turn off the breaker. *
F01	Internal error		

\* If you cannot release errors, contact with your nearest Yuyama's sales office.

# Specifications

Name	YS-TR-520FDS II / 590FDS II		
Model	YS-TR-520FDS II / YS-TR-590FDS II		
Packing size	60, 70, 76, 80, 90mm wide x 70mm long (half-folded packing paper)		
Packing paper (type)	Cellophane polyethylene		
Packing speed	Max. 60 packs/min.		
Tablet detection method	Photo-sensor system		
Tablet supply method	Free fall		
Bar code reader	Compatible with RSS composite code		
Ink ribbon	Normal type (black or color); half type (black)		
Printout on drug packing paper	New model thermal printer Compatible with black/four colors (cassette type)		
Journal printer	Thermal Single color (black, reversal)		
Loss pack	Front loss five packs (For continuous prescription, 0 packs irrespective of cut setting) Rear loss 0-4 packs (setting changeable on PC)		
Input device	PC		
Cassette size and total count	YS-TR-520FDS II	L: 72 LM: 448	
	YS-TR-590FDS II	L: 72 LM: 224 M: 64 S: 90 SS: 140	
Cassette identification	RFID system		
Tablet adapter (DTA)	63 packs/pass, max. 16 passes (max. 999 packs per subscription including cartridges, drugs and loss packs)		
Contamination level	2		
Use environment	Indoors		
Altitude	2000m		
Main body dimensions	YS-TR-520FDS II / YS-TR-590FDS II	1780mm (width) x 930mm (depth) x 1998mm (height)	
Main body weight	YS-TR-520FDS II / YS-TR-590FDS II	1140kg	
Power source	AC120V±10V 50/60Hz		
Power consumption	YS-TR-520FDS II / YS-TR-590FDS II	1500VA(MAX)	

\*Packing paper and ink ribbon differ with the specifications at shipment. If you wish to change the type of packing paper/ink ribbon, adjustment is needed. Consult the distributor from which you purchased the packer.

# Inspection and Maintenance Record Table

# **yuyama**

Yuyama U.S.A. Inc  
IL Office  
1513 Carmen Drive  
Elk Grove Village,IL60007

Yuyama U.S.A. Inc  
FL Office  
6308 Benjamin Road,Suite 704  
Tampa,FL 33637

Yuyama U.S.A. Inc  
CA Office  
17835 Sky Park Circle,Bldg 14 Ste.A  
Irvine,CA 92614

Yuyama U.S.A. Inc  
TX Office  
210 Belt Line Road,Suite 114  
Farmers Branch,TX 75234