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# ES5500

## Service Manual



### Pressure Sealer

This manual provides detailed information on how to operate and maintain your ES5500.

Please read this manual before operating the machine in order to prevent any damage caused by improper handling.

## Introduction

**Thank you for purchasing a Paitec USA product**

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## ES5500 Features (Pressure Sealer)

- **Perfect Sealing Quality & Low Noise Level**

The most advanced pressure sealing technology with lightweight, excellent sealing quality and extremely low noise levels.

- **Excellent Folding Quality**

Excellent folding quality, even with plain paper based on our advanced technology.

- **Compact & Dynamic Design**

Advanced technology sealing system allows for compact design which saves valuable workspace.

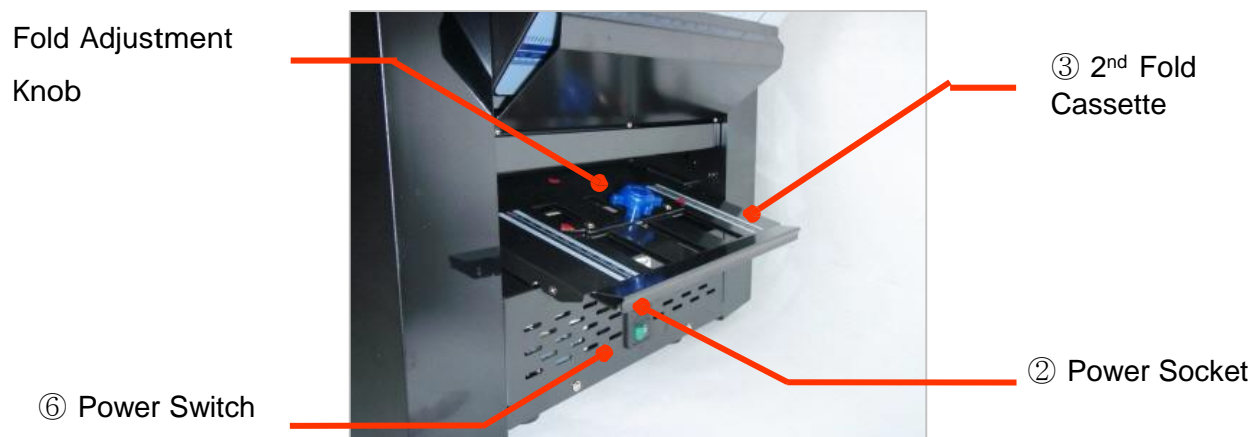
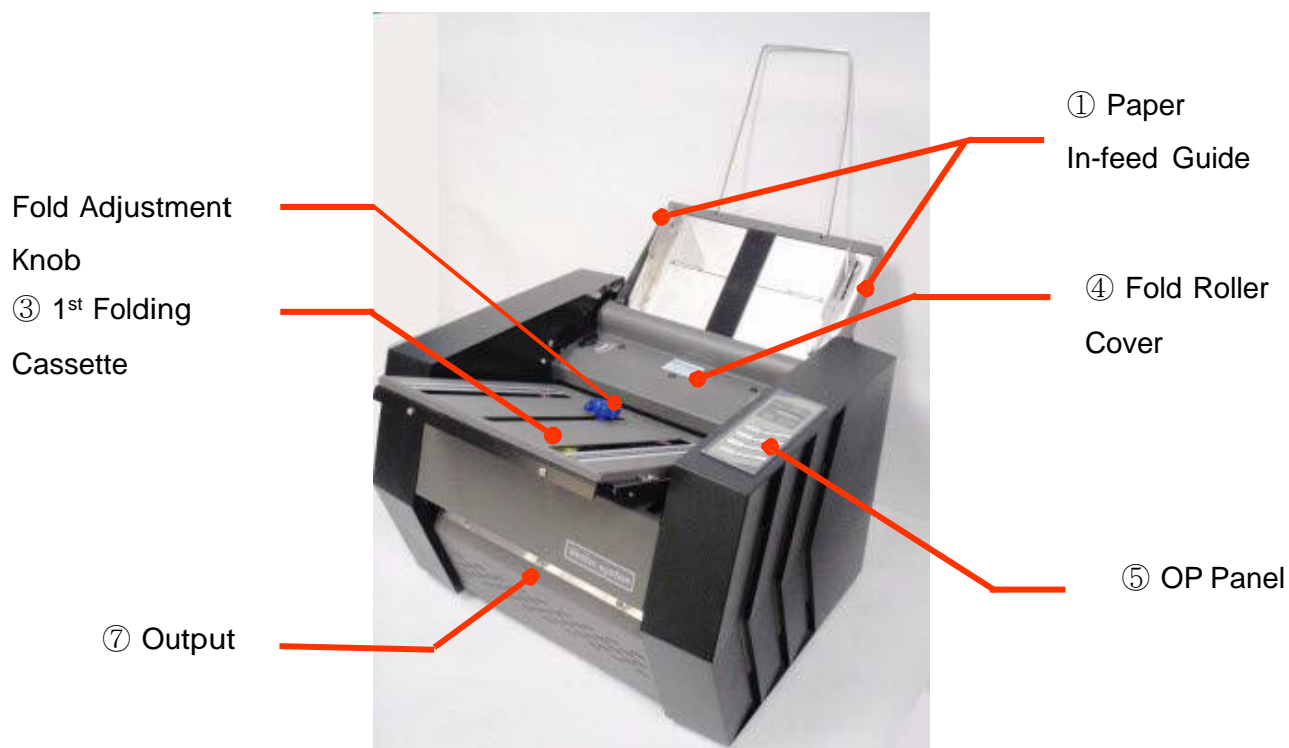
- **Easy Maintenance**

Easy troubleshooting approach by user-friendly design. So that user can do basic maintenance without the help from engineers.

## ES5500 Specification

- Form Size : A4 / Letter / Legal size
- Speed : 5,000 forms / hour
- Folding Adjust: Manual
- Form weight : 80-105gsm
- Folding Setting : Z, C (Optional), V & Double
- Feeding Type: Front-Feed Type
- Input Tray : up to 200 forms (90 gsm)
- Jam Free: DFD and Feed Jam Detect
- Noise Level : less than 45db
- weight : 20kg
- Dimension : 320 X 390 X 280mm (WxLxH)

## Identifying Parts



## ① Paper Guide

Load the paper into the paper hopper, making sure the paper in-feed guides are near touching each side of the paper to guide paper squarely.

(Prepare paper by making edges neat before loading)

## ② Power Socket

Main power socket located on the back of the machine

## ③ 1<sup>st</sup>/2<sup>nd</sup> Folding Cassette

After 1<sup>st</sup> folding is made in the 1<sup>st</sup> folding cassette in front, 2<sup>nd</sup> folding is made in the 2<sup>nd</sup> folding cassette.

## ④ Roller Cover

Open roller cover when jam occurs.

(Please turn the Knob in clockwise rotation for unlock)

## ⑤ OP panel for Start/Stop & Other Function

## ⑥ Power Switch

After check power socket, please turn on/off power switch

## ⑦ Output

Finished forms exit the front of the machine



[Side View]



[Rear View]

## Unpacking the Machine

### Contents

Please check the following parts are included in the box.

Power Cable, 1<sup>ST</sup> Fold Cassette, 2<sup>nd</sup> Fold Cassette and User manual



[Box open]



[1st, 2<sup>nd</sup> Cassette & Power cable]

### \* Caution

Power connection: Please refer to the label for electric information which is located at the back of the machine. If it is not working properly, please contact your local dealer for service.



## How to install the Folding Cassette

### Adjusting the Fold Cassette

Insert the 1<sup>st</sup> Cassette(Pic. 1) on the front and 2<sup>nd</sup> Cassette on the back(Pic. 2)  
Turn the Knob to adjust the fold cassette to the desired paper size (Refer to fold assist label on top of the in-feed tray.)



[Pic.1 : 1<sup>st</sup> Cassette Assemble]



[Pic 2 : 2<sup>nd</sup> Cassette Assemble]



[Pic 3 : Adjust 1<sup>st</sup> Cassette]



[Pic 4 : Adjust 2<sup>nd</sup> Cassette]

## Folding Cassette Setting Guide

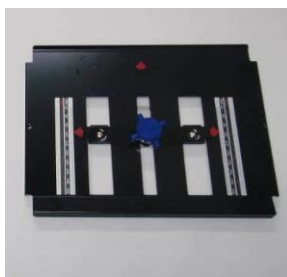
### Folding Cassette Setting Guide

Fold cassette setting guide								
		A4		Letter		Legal		Custom
		mm	Inch	mm	Inch	mm	Inch	Paper length X
Z - Fold	1-st	99	3.89	93	3.66	118.6	4.67	33.3%
	2-nd	99	3.89	93	3.66	118.6	4.67	33.3%
Uneven Z Fold	1-st	99	3.89	—	—	137	5.39	33.3%
	2-nd	102	4.01	—	—	140	5.51	34.3%
Single Fold	1-st	148.5	5.85	139.5	5.49	178	7.0	50.0%
	2-nd	Insert the cassette in the opposite direction						
C - Fold	1-st	198	7.8	186	7.32	237.2	9.34	66.6%
	2-nd	99	3.89	93	3.66	118.6	4.67	33.3%

#### How to set “11” Z-Fold”

- Swivel the Knob to counter clockwise and move on 93mm.
- Swivel the Knob to clockwise to tight and hold the position.
- 2<sup>nd</sup> Cassette is same as 1<sup>st</sup> Cassette.

**! Attention : “C-Fold” is need to use optional Cassette (Pic. 3)**

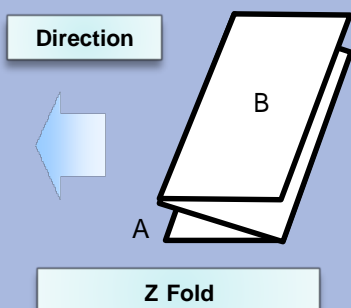


[Pic.1: Standard 1<sup>st</sup> Cassette]

[Pic. 2: Standard 2<sup>nd</sup> Cassette]

[Pic. 3: Optional Cassette]

## Folding Cassette Setting Guide

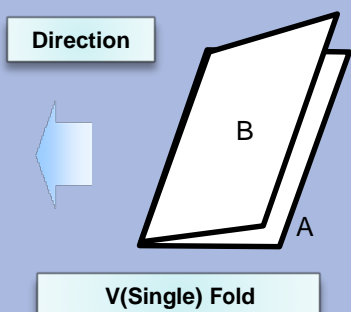


### 1. Z Fold Setting (11")

- Move 1<sup>st</sup> cassette stopper to **93mm**.
- Move 2<sup>nd</sup> cassette stopper to **92mm**.

Tip1. If A side of paper is shorter, adjust the position of 1<sup>st</sup> cassette stopper to the actual measurement.

Tip2. If B side of paper is shorter, adjust the position of 2<sup>nd</sup> cassette stopper to the actual measurement.

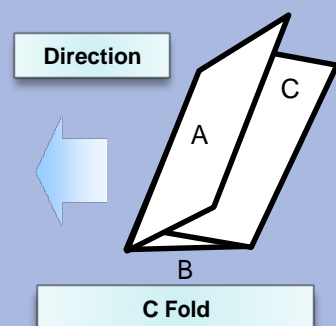


### 2. V(Single) Fold Setting (11")

- Move 1<sup>st</sup> cassette stopper to **140mm**.
- Remove 2<sup>nd</sup> cassette and put it back with opposite direction.**

Tip1. If A side of paper is longer than B, adjust the position of 1<sup>st</sup> cassette stopper to the actual measurement.

Tip2.



### 3. C Fold Setting (11" or 14") – <Required 270mm Cassette >

- Move 1<sup>st</sup> cassette stopper to ....
- Move 2<sup>nd</sup> cassette stopper to .....

Tip1. If B side of paper is longer than C, adjust the position of 1<sup>st</sup> cassette stopper to actual size.

Tip2. If C side of paper is shorter, adjust the position of 2<sup>nd</sup> cassette stopper to actual size.

## Operation Panel

### INFORMATION

1. An information menu is appeared when the **[INFO]** button is pressed on the ready state. In this menu, a couple of information about the machine is showed.
2. For moving back to the ready state, press the **[INFO]** button again.

### Reset

1. **[Reset]**: Initialize the working Counter & paper thickness.
2. C-fold mode: **270mm Cassette need for C-fold (Optional)**
3. **[Reset]**: Initialize the working counter & paper thickness. (Total count is flashing when C Fold Mode)

### DFD on/off (Double Feed Detection)

1. If you do not want to use double detection function, you can make "DF mode" Off. Press [DFD] and see disappearing "paper thick" on LCD.
2. When DFD function is off, [Paper Thickness won't be displayed.

### Batch Mode on/off

1. Press **[Count]** button for activating the batch count function. And press **[Count]** button once again for deactivating the function.

### Auto Start Mode(ASM) on/off

1. Press **[ASM]** button to activate the auto start mode (ASM). And if **[ASM]** button is pressed once again the ASM is turned off.
2. The batch mode is operated continuously if the ASM is activated and the interval of each batch work is 3 seconds.



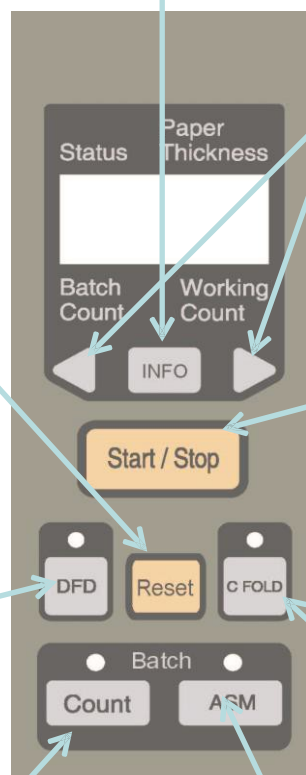
1. Change menu or setting value.

### Start/Stop

1. Press **[Start/Stop]** to run the machine.
2. Press **[Start/Stop]** again to stop the machine.

### C Fold on/off

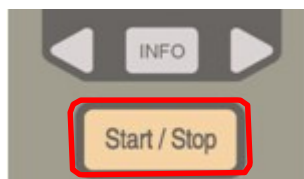
1. This button is for C fold mode.
2. Beeper sound when it is settled C-fold mode and working count light is off.
3. If you want to cancel for C Fold mode, please push **[C fold]** button again.



### Power On

Paper	
Status	Thickness
Ready	0
	0
Batch	Working
Count	Count

### Start / Stop

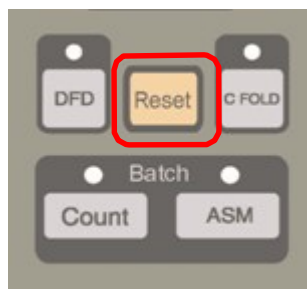


Paper	
Status	Thickness
Work...	* *
	0
Batch	Working
Count	Count

## Start/Stop

If the [Start/Stop] button is clicked one time the machine will be operated. And [Start/Stop] is clicked once more, the machine is stopped.

### Reset



Paper	
Status	Thickness
Ready	11
	118
Batch	Working
Count	Count



Paper	
Status	Thickness
Ready	0
	0
Batch	Working
Count	Count

## Reset

[Reset]: Initialize the working counter & paper thickness .

- General Mode

[Reset]: working count is 0 and paper thickness is initialized with 1 digit based on DF/PT level.

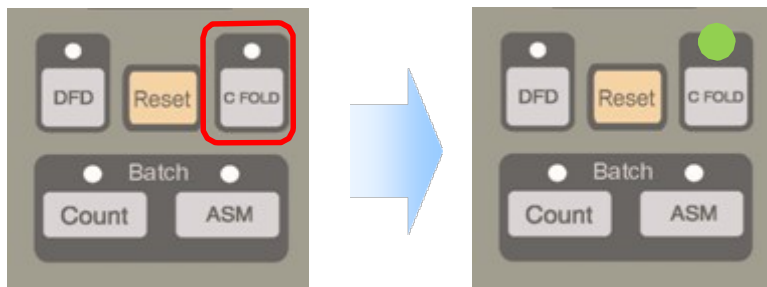
- Batch Mode

[Reset]: batch counter 0 and paper thickness is initialized, but working count is not initialized.

- C-fold Mode (270mm Cassette need for C-fold : Option )

[Reset]: working count 0 and paper thickness is initialized with 1 digit based on DF/PF level. (working count light off)

### C Fold Mode



### C Fold on/off

This button is for C fold mode.

Beeper sound when it is settled C-fold mode and working count light is off.

If you want to cancel for C Fold mode, please push [C fold] button again.

### DFD Mode



### DFD (Double Feed Detection) on/off

If you do not want to use double detection function, you can make “DF mode” Off. Press [DFD] and see disappearing “paper thick” on LCD.

Tip : You can use this function when the DFD is out of order because of the printed contents on the paper.

### DFD Sensibility

DFD sensibility sometimes has to be changed for better detection.

Please hold down the [DFD] button and change the “paper thick” value by using the [Direction] button for confirming and storing hold down the [DFD] button again.

## Batch Mode



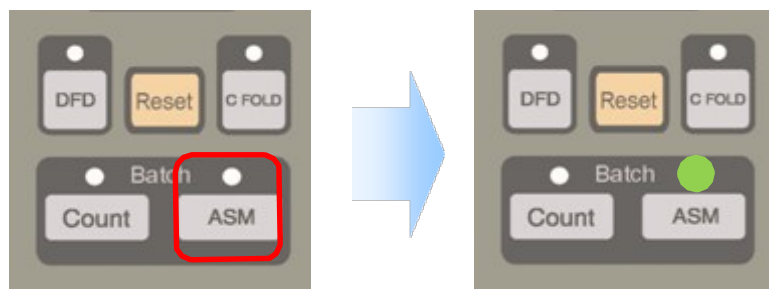
## Batch Mode on/off

Press **[Count]** button for activating the batch count function. And press **[Count]** button once again for deactivating the function.

## Adjust Batch Count

The batch count adjusting menu is appeared through hold down the **[Count]** button. You can change the value by using the **[Direction]** buttons and confirm the count by holding the **[Count]** button again.

## ASM Mode



## Auto Start Mode (ASM) on/off

Press **[ASM]** button to activate the auto start mode(ASM). And if **[ASM]** button is pressed once again, the ASM is turned off.

The batch mode is operated continuously if the ASM is activated and the interval of each batch work is 3 seconds.



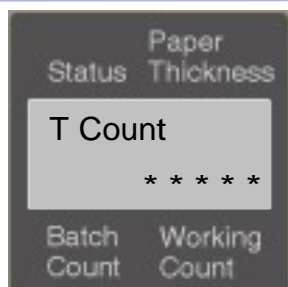
## Information Check



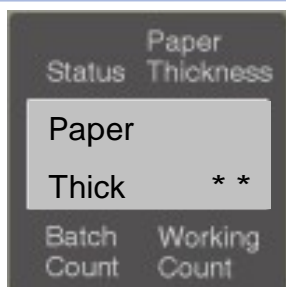
## Menu Change



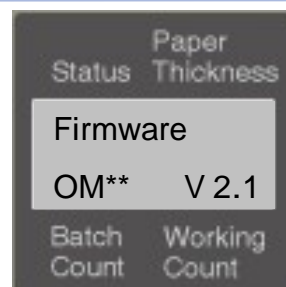
## Total Count



## Paper Thickness



## Firmware Version



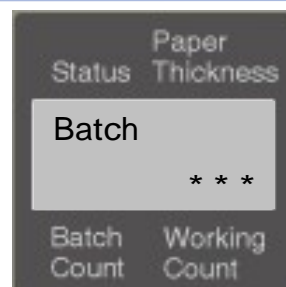
## Installation Date



## Total Operation Time



## Batch Mode



## INFORMATION Menu

An information menu is appeared when the **[INFO]** button is pressed on the ready state.

1) What is the "Information" menu.

In this menu, a couple of information about the machine is showed.

And user can check the several settings and information about the ES5500 easily.

2) Menu

a) Total Count : The total count of the machine

b) Paper Thickness: The sensitivity of the DFD

function. c) Firmware Version

d) Installation Date: The date when the machine was installed.

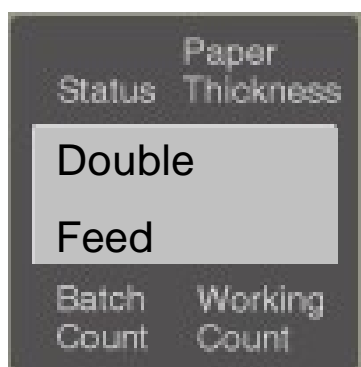
e) Total Usage Time: Measure the using time.

f) Batch Count: The number of the batch mode.

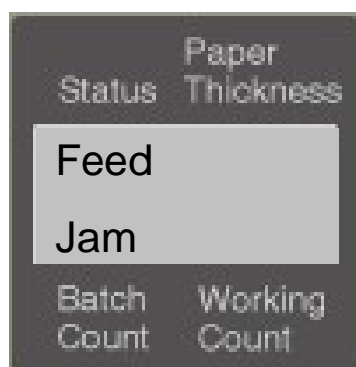


## TIP. Handling of the forms before feeding.

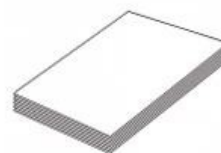
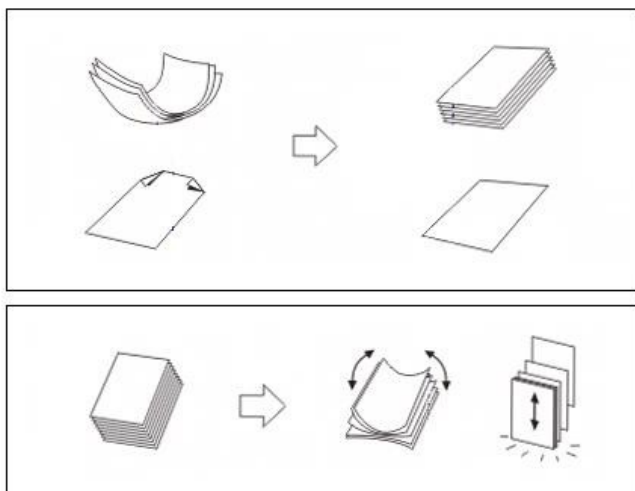
1. Please make the forms to well-arranged.
2. The form has to be set on the paper tray properly.
3. If too many sheets of form are set on the tray (over 150 sheets) it can make feeding problem.
4. Please check the fold-position by test-folding and adjust the fold-position properly.



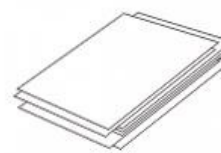
[Double feeding detected]



[Feed jam detected]



Good



Bad

[Pressure seal form handling before using]

## Paper Jam Removal

The paper jam that is occurred in the ES5500 can be easily removed.

The machine is stop automatically when the paper jam is occurred. And the paper jam can be removed by using the jam removal tool.

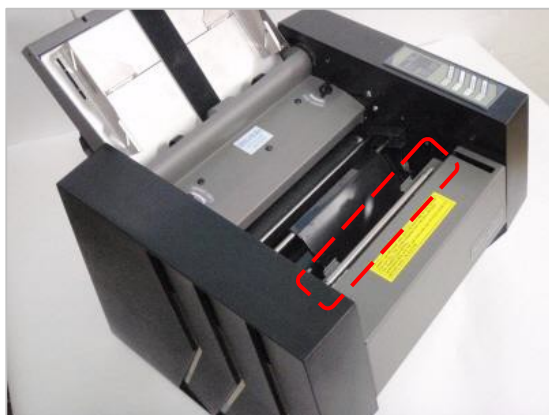
After remove paper jam then presses Reset button. The machine starts to operate when the **[Start/Stop]** button is pressed after pressing reset button to clear the error message.



[Remove the 1<sup>st</sup> CST]



[Open the top cover by un-locking the locking knob.]



[Remove the jam by using the jam removal tool]

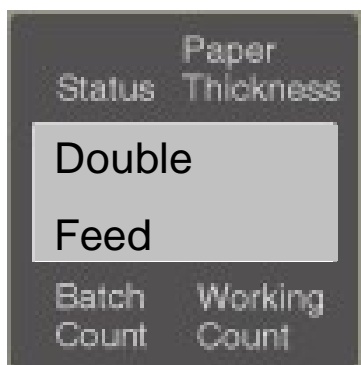


[Insert the tool into the hole on the press roller and rotate the press roller by hand]

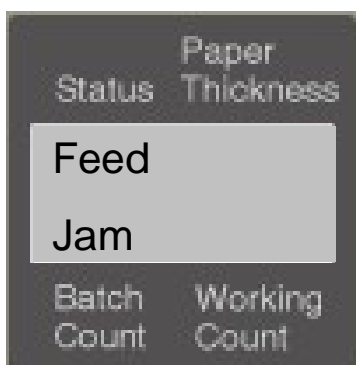
**! CAUTION:** Please keep the jam removal tool to same position after removing the jam.

## Handling the Error Messages

### Handling the Error Messages



[Detect double feed & feed jam]



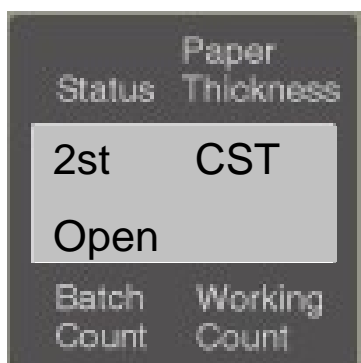
[Open the cover and remove the jam]



[1<sup>st</sup> Cassette Error]



[Check 1<sup>st</sup> Cassette]



[2<sup>nd</sup> Cassette Error]



[Check 2<sup>nd</sup> Cassette]

## Operator Maintenance

Due to the pressure seal forms leaving paper dust, ink and toner residues, it is very important to occasionally clean the surface of the each roller to ensure optimum performance.

In case of fold rollers, remove 1<sup>st</sup> folding cassette and separate roller cover. Clean ink and toner residues on the folding rollers with this soft cloth and alcohol.

**\*Caution:** Do not use oil as this will damage the surface of the folding rollers.



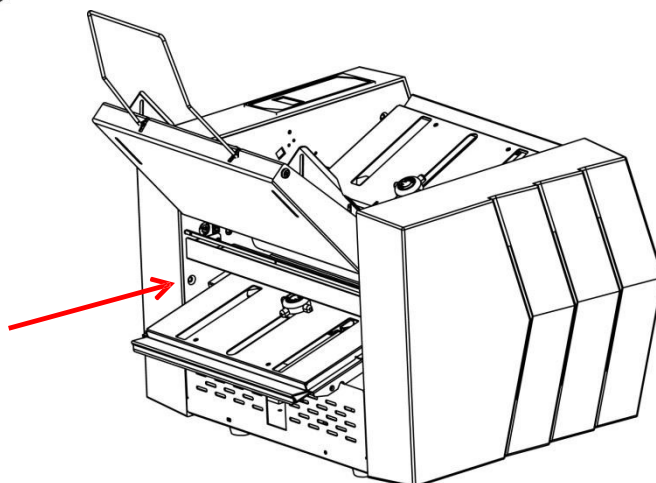
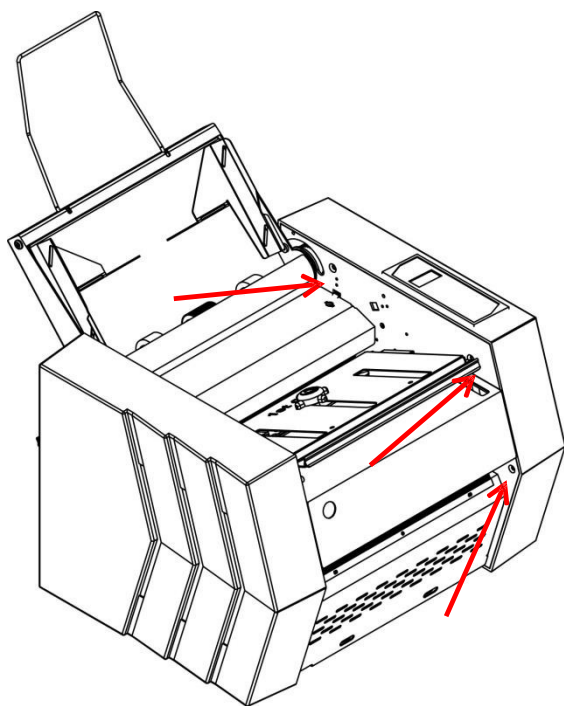
[Remove the forms]



[Clean the sensor]

## Remove Cover

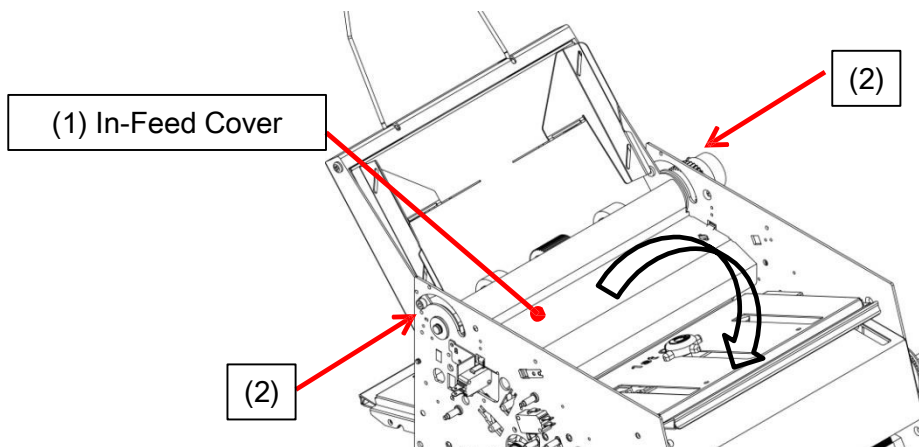
Unscrew 4 points indicated on the below pictures to remove cover.  
Remove the opposite side of cover in the same way.



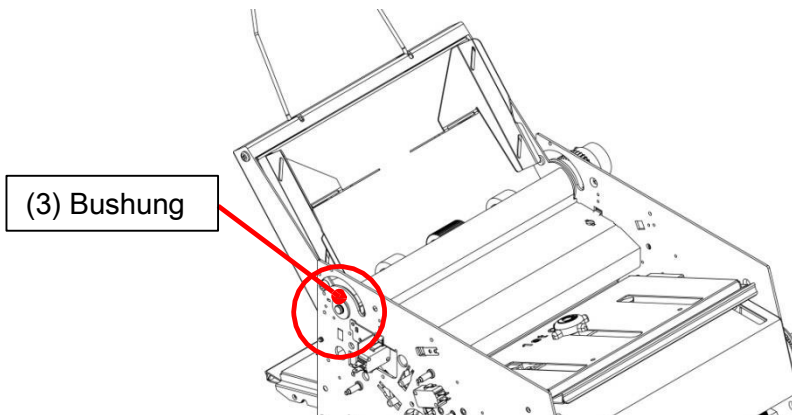
**Caution: Re-assemble the cover before operation.**

## In-Feed Roller Replacement

1. Open (1) In-Feed Cover after removing Covers.
2. Unscrews (2) bolts on left and right sides.



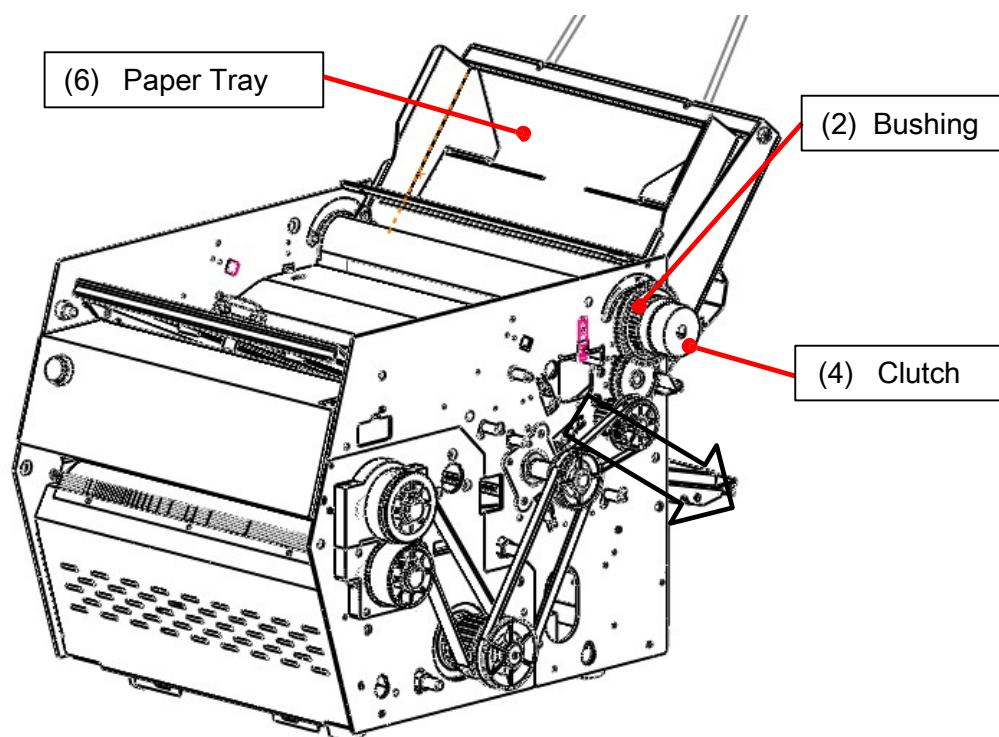
3. Remove (3) Bushing.



Remove E-Ring first.



### 4. Remove (4) Clutch



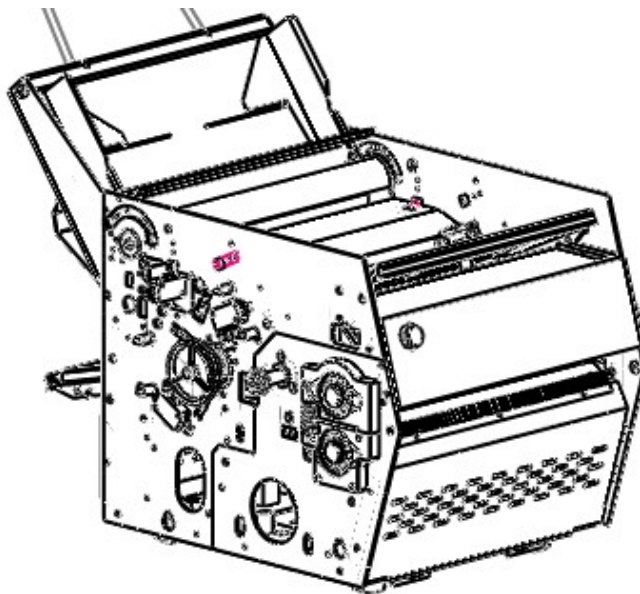
5. Remove (2) Bushing and Remove In-Feed Roller Set.

6. Remove (6) Paper Tray

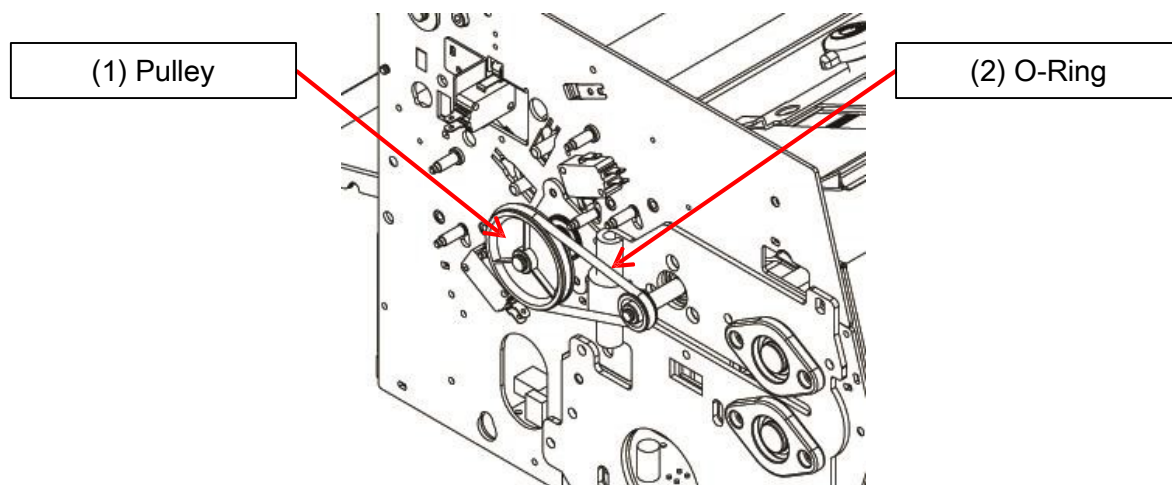
Re-assemble In-Feed Roller in the reverse order.

## Fold Roller Replacement

### 1. Remove Covers



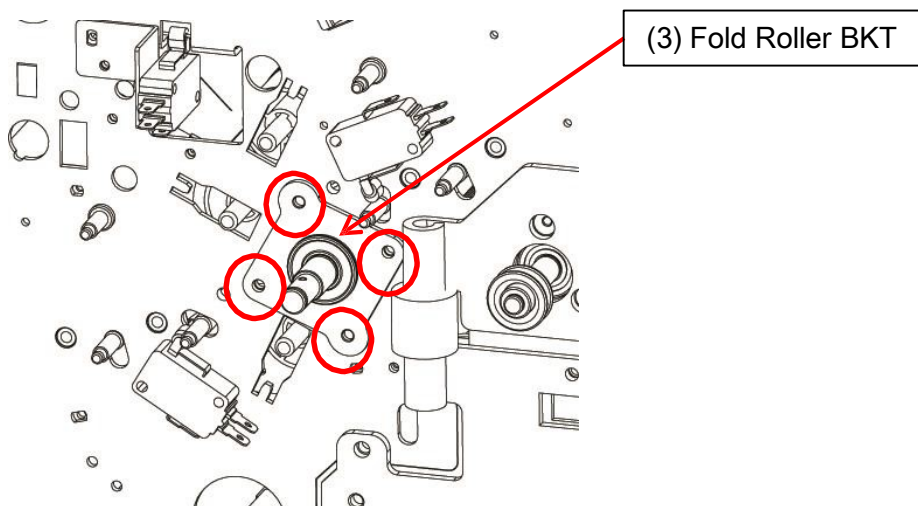
### 2. Remove (2) O-Ring and (1) Pulley.



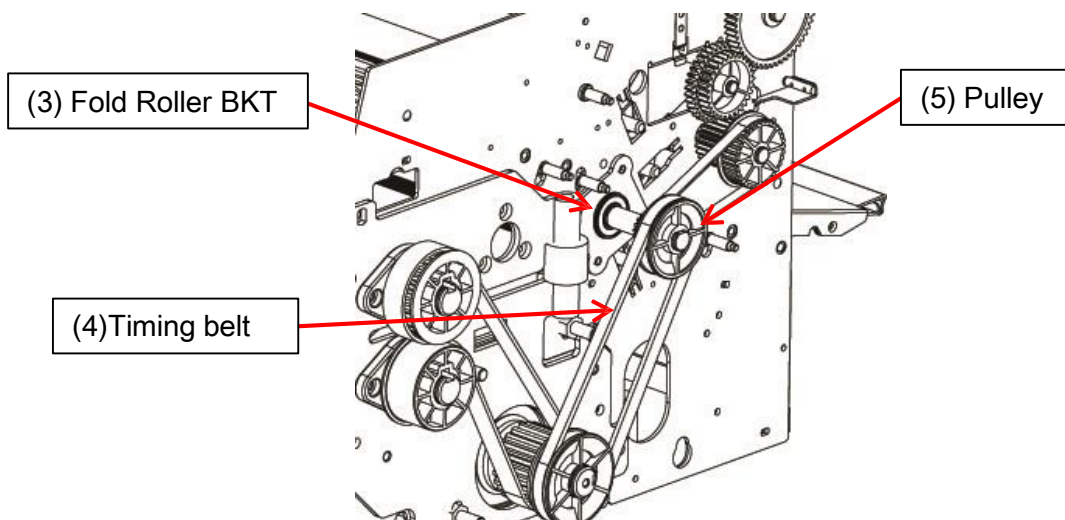
Remove E-Ring first.



3. Unscrew 4 points to remove (3) Fold Roller Bracket.

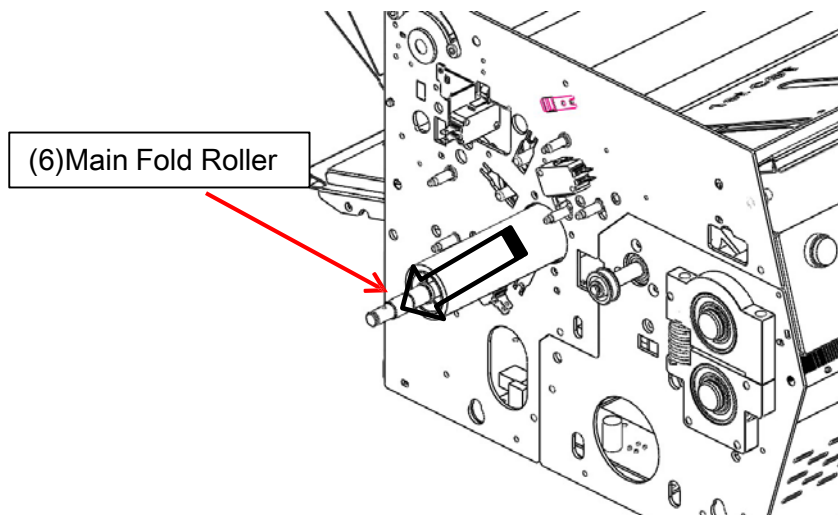


4. Remove (4) Timing Belt and (5) Pulley



5. Remove (3) Fold Roller Bracket

## 6. Remove (6) Main Fold Roller



Re-assemble In-Feed Roller in the reverse order.



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