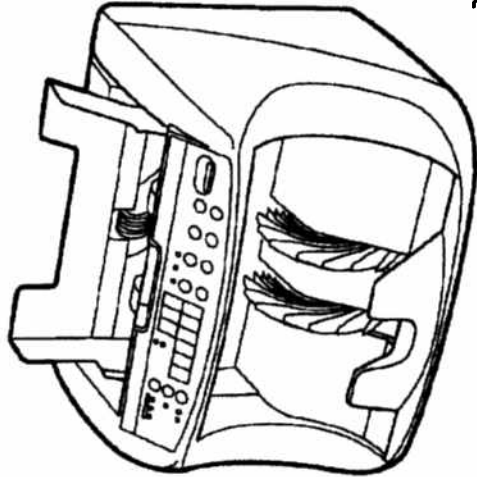


GLORY.

OPERATING INSTRUCTIONS
GLORY
BANK NOTE COUNTING MACHINE
MODEL **GFB-700**



PLAINTIFF'S
EXHIBIT

PX 545

9:07-CV-196 RHC(Consol.)

FOREWORD

We appreciate that you selected the GLORY Currency Reader Counter Model GFB-700. Before using, please read this manual thoroughly to familiarize yourself with all functions and operations. Please keep this manual nearby for quick reference.

The GFB-700 is designed for counting and depositing US currency. Use or modification of the GFB-700 without GLORY's permission will result in the invalidation of all guarantees.

The information contained in this manual is subject to change without notice. The contents of this manual may not be reproduced in any form without the explicit permission of GLORY.

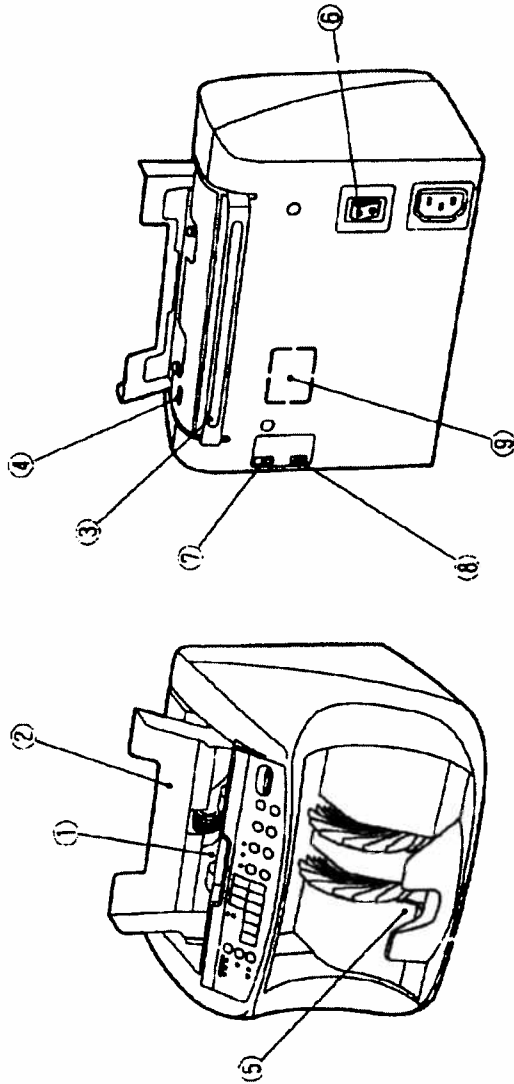
CONTENTS

| | | | |
|------------------|---|------------------|--|
| Chapter 1 | NOMENCLATURE AND BRIEF DESCRIPTION OF MAIN PARTS Appearance 1 Operation Display 3 Functions of the Operation Keys - 4 | Chapter 4 | PRECAUTIONS FOR HANDLING OF MACHINE 22 |
| Chapter 2 | HOW TO OPERATE MACHINE Counting of Bank Notes (Basic Operation) 7 Mixed Counting Mode (MIX) 11 Different Denomination Detection Mode (D.D) 12 Counting Mode (CNT) 14 Mix Sort Mode (MIX SORT) 15 Operation at the Time of a CF Detection or nr (No Read) Error - 17 Connection of a Printer (Option) 18 | Chapter 5 | DAILY CLEANING OF THE MACHINE 24 |
| Chapter 3 | TROUBLE SHOOTING 19 | Chapter 6 | SPECIFICATIONS 25 |
| | | Chapter 7 | ACCESSORIES 28 |

Chapter
1

NOMENCLATURE AND BRIEF DESCRIPTION OF MAIN PARTS

Appearance



1 NOMENCLATURE AND BRIEF DESCRIPTION OF MAIN PARTS



Appearance

- ① **HOPPER**
Notes to be counted are placed in the Hopper.
- ② **AUXILIARY HOPPER PLATES**
Guide plates for leading the notes into the feeding mechanism.
- ③ **HANDLE**
Used for carrying the machine.
- ④ **GATE THICKNESS ADJUSTMENT SCREW**
Used to make smooth counting operation regardless of paper thickness which may vary by denominations.
(Gate adjustment of this machine is factory adjusted.)
- ⑤ **STACKER**
Counted notes are stacked in the stacker.

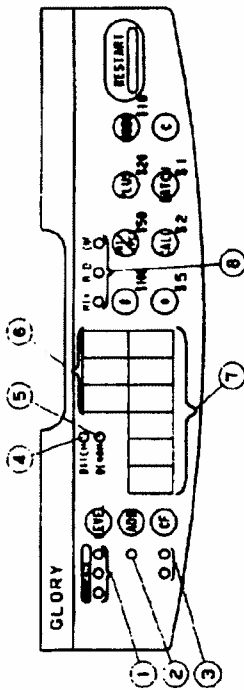
- ⑥ **POWER SWITCH**
Main power on/off switch.
- ⑦ **COUNTING SPEED CHANGE SWITCH**
Used to change the counting speed

| Mode | Switch position (Notes/min) | | |
|------------------------|--------------------------------|--------|--------|
| | Top | Middle | Bottom |
| MIX D.D MIX SORT | 1000 | 1000 | 1000 |
| CNT | 1500 | | 1000 |

- ⑧ **AUTOMANUAL SWITCH**
Start of counting operation can be set to Auto start or Manual start.
- ⑨ **CONNECTING PORT FOR I/F CONNECTOR**
(option)
Used to connect a Communication Line or printer.

_____ **NOMENCLATURE AND BRIEF DESCRIPTION OF MAIN PARTS 2**

Operation Display



- ① Two sheets detection level display

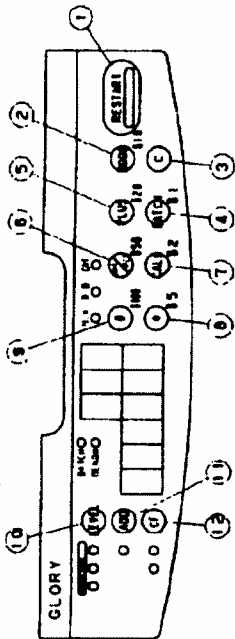
| | | |
|---------|---------|---------|
| Light | Med | Dark |
| → ○ ○ ● | → ○ ● ○ | → ● ○ ○ |
- ② Addition ON/OFF display
 Lights during addition counting.
- ③ Counterfeit note (CF) detection level display

| | | |
|-------|-------|-------|
| OFF | CF(L) | CF(H) |
| → ○ ○ | → ○ ● | → ● ● |
- ④ Batch ON/OFF LED
 Lights when display ⑥ is Batch #.
- ⑤ Denomination state LED
 Lights when display ⑥ is denomination.
 Lights when one of denomination key is pressed.
 Lights when a different denomination is detected in the MIX SORT mode.
 Lights during the CALL display.
- ⑥ Batch numbers/denomination display
 Lights when batch numbers or denomination is displayed.
- ⑦ Displays of the counted numbers/dollar value of bank notes
- ⑧ Mode display

| | | | |
|---------|---------|---------|----------|
| MAX | D/D | CAT | MIX SORT |
| → ● ○ ○ | → ○ ○ ○ | → ○ ○ ○ | → ● ● ○ |

⑤ NOMENCLATURE AND BRIEF DESCRIPTION OF MAIN PARTS

Functions of the Operation Keys



1. **RESTART** Used for starting counting clearing of errors
Clear the display of the number of bank notes counted starting counting when the auto/manual changeover switch is set to "manual (MANL)."

2. **MODE** To change modes (MIX, D.D., CNT and MIX SORT) and \$10 key.

→ MIX → D.D → CNT → MIX SORT
 * \$10 Denomination input key at the time of an nr (No Read) or CF error

3. **C** Clear
Used to clear errors.

* Used in the MIX mode to clear the display of the counted numbers/dollar value of bank notes of all denominations.

* Used in the D.D mode to clear the display of the counted numbers/dollar value of bank notes denominations.

* Used in the CNT mode to clear the display of the counted number of bank notes.

* Used in the MIX SORT mode to clear the display of the dollar value of bank notes of all denominations.

4. **BATCH** Batch
Used in the D.D or CNT mode to set the batch numbers and \$1 Key.

→ 100 → \$ → 10 → 20 → 25 → 40 → 50 → OFF

* \$, 10, 20, 40, 50, and 100 are default values.
 * \$1 Denomination input key at the time of an nr (No Read) or CF error

5. **PLUS** Plus

* Used in the D.D or CNT mode to set the batch numbers in increments of (1) and \$20 Key.
 * The batch number is increased by 1 each time this key is pressed.

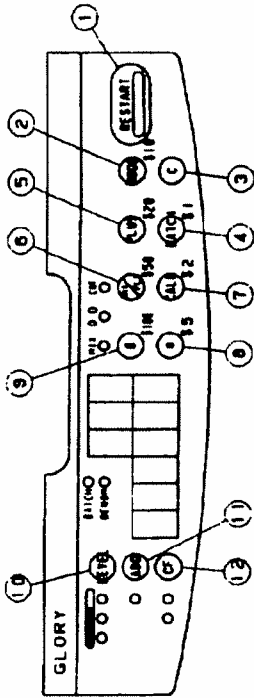
* The batch will change quickly when this key is pressed continuously.

* However, no number exceeding 999 can be set (999→1→02→→).

* \$20 Denomination input key at the time of an nr (No Read) or CF error

NOMENCLATURE AND BRIEF DESCRIPTION OF MAIN PARTS 4

Functions of the Operation Keys



6. AMT/PCS

- PCS/dollar value of bank notes display
- Used in the MIX, D.D. or MIX SORT mode to switch between the pcs display and dollar value of bank notes display and \$50 Key.
- Can be also used when the amount/number of bank notes for a specified denomination is displayed with the Call Key.
- \$50 Denomination input key at the time of an nr (No Read) or CF error

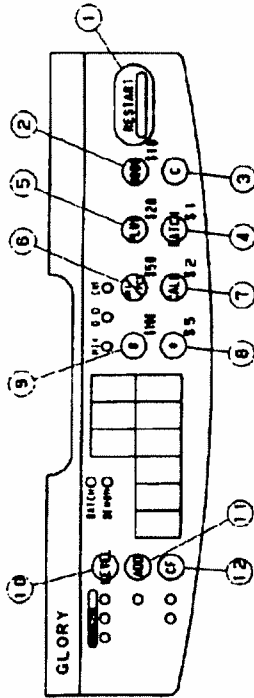
7. CALL

- The total number of PCS notes or dollar value of all denominations is displayed when ALL is set.
- Can return to the original display from any position when the [START/STOP] key is pressed.
- \$5 Denomination input key at the time of an nr (No Read) or CF error



5 NOMENCLATURE AND BRIEF DESCRIPTION OF MAIN PARTS

Functions of the Operation Keys



- (1) **#**
 - Spare and \$100 Key
 - \$100 denomination input key at the time of an *m* (No Head) or CF error.
- (2) **LEVEL**
 - Two sheets detection level switching
 - Used to change the level two sheets detection or degree of stain on bank note or color shade of the bank notes to be counted.
 - Two sheets detection level can be switched in three stages.
- (3) **ADD**
 - Addition ON/OFF
 - Used in the MIX, D.D or CNT mode to set the function for adding the counted number of subsequently set bank notes to the counted number of the initially set bank notes.
- (4) **CF**
 - Counterfeit note (CF) detection level switching
 - CF level ON/OFF switching



• The GFB-700 will stop when a counterfeit bank note has been detected.

NOMENCLATURE AND BRIEF DESCRIPTION OF MAIN PARTS 6

HOW TO OPERATE MACHINE

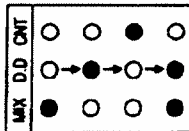
Counting of Bank Notes (Basic Operation)

Switch on the power supply.

- "0" will be indicated on the counting number display.
- The mode, two sheets detection level, and the settings of adding and batch numbers will return to settings before machine was shut off.

Selection of the mode

- Select the MIX, D.D, CNT, or MIX SORT mode by pressing the [Mode] key.

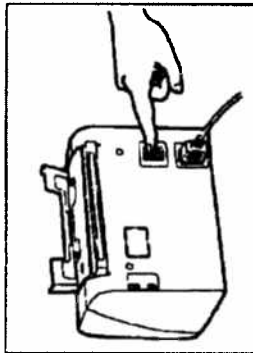


Mixed counting mode (MIX): Counts mixed bank notes (US\$) and displays the PCS of bank notes or the dollar value.

Different denominations detection mode (D.D): Detects different denomination in stack of money.



Counting mode (CNT): Counts all bank notes placed in the hopper and displays the PCS of bank notes.

Mix sort mode (MIX SORT): By referencing first note through machine stops everytime different denominations is detected.



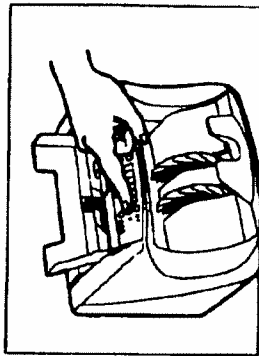
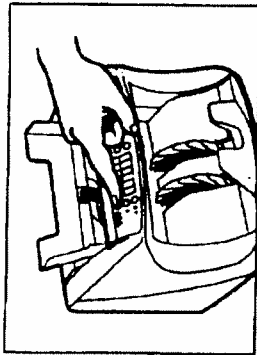
Counting of Bank Notes (Basic Operation)

Check the two sheets detection level and make proper setting.

- By pressing the Two Sheets Detection Level Key, set to proper reference level for two sheet detection according to the degree of stain of notes to be counted.
 - Every press of this key will change the position of Level-Lamp.
- For notes which are stained or printed dark, set the Level-Lamp to the position as "  ", for notes which are new or printed light, set the lamp to the position as "  ".

Check the Addition Lamp and set to ADD function.

- To add counted numbers to previous counted number, press the ADD Key to set the machine to ADD function addition Lamp light.



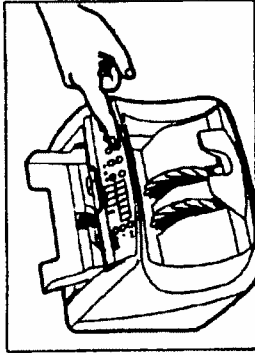
NOMENCLATURE AND BRIEF DESCRIPTION OF MAIN PARTS 8



Counting of Bank Notes (Basic Operation)

Setting of the batch numbers (in the D.D or CNT mode)

- Set the batch number by pressing the Batch Key. Every time this key is pressed, one of the specified indications "100", "5", "10", "20", "25", "50" and "(Infinity)" will be indicated by rotation on the Batch Number Display. Machine will stop when the counting number has reached the batch set number.
- In case a "Infinity" is selected on the BatchNumber Display machine will count up all notes placed in the Hopper with no stoppage.
- If you want the machine to stop at a number of bank notes other than that specified by the BATCH key, press the PLUS key to increase the batch number. The batch increases by 1 each time the PLUS key is pressed. The changing speed increases when this key is pressed continuously (any number up to 999 can be set).

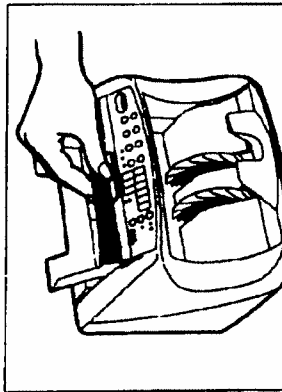


9 HOW TO OPERATE MACHINE

Counting of Bank Notes (Basic Operation)

Set the bundle of bank notes to be counted on the Hopper.

- To know how to set the notes, refer to Chapter 4 "precautions for handling of machine/How to set bank notes" (page 22)
- Set the notes to be counted on the Hopper and the machine will start counting automatically (if set on AUTO).
- If a batch number is set, the machine will stop when the batch number has been reached; remove the batched notes from the Stacker and the next counting operation will start automatically.

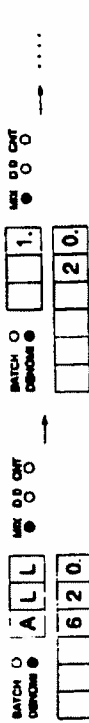


• • • • • E3 For reference • • • • •

- Change batch number for each batch count!
The foregoing procedure is for the case where the AUTOMNL Switch on the rear side of the machine is turned to "AUTO".
In case the Switch is changed to "MNL", press the RESTART KEY each time to start counting; this process is convenient to change batch number with each batch count.
- Description of "ADD function"
When counting operation for a bundle of notes set on the Hopper is finished, the counting operation for next bundle of notes is started with display "0" on the Counting Number Display.
When counting operation is started under ADD function, the counted numbers for succeeding bundles of notes will be added and displayed.

Counting of bank notes of mixed denominations (MIX mode)

- Counting procedures (e.g.: twenty \$1, twenty \$10, and twenty \$20 notes)
 - Set the MIX mode by pressing the MODE key.
 - The machine counts the bank notes placed on the hopper. Amount display: 620
Number of bank notes display: 60
 - The total number of PCS or dollar value is displayed when pressing the AMT/PCS key.
 - The number of bank notes or amount of each denomination is displayed when pressing the CALL key.



- Procedures to clear the count data
 - When ADD is set to "OFF" Data will be cleared when the bank notes are removed from the stacker and the next counting is started.
 - When ADD is set to "ON" Data will be cleared when the bank notes are removed from the stacker and the C key is pressed.

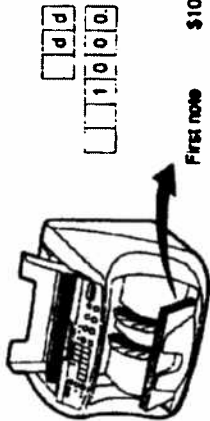
1 1 HOW TO OPERATE MACHINE

Detection of different denominations by the counting of a single denomination (D.D mode)

1. Counting procedures (e.g.: One \$10 note is mixed in with one hundred \$100 notes)

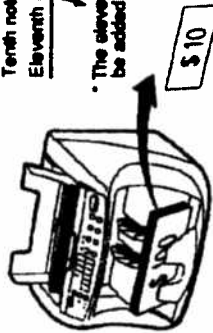
- (1) Set the D.D mode by pressing the MODE key.
- (2) The machine counts the bank notes placed on the hopper.
- (3) The denomination of the first note counted is automatically set, and when a note of a different denomination has been detected, the "dd" will be displayed and the machine will stop.
- (4) Remove the note of a different denomination (the top note in the stacker).
- (5) Press the RESTART key to continue counting.
- (6) The counting number or amount of bank notes of each denomination is displayed when pressing the CALL key.

2. Procedures to change the denomination to be counted
- (1) Remove the bank notes from the hopper and stacker.
 - (2) Place the bank notes to be newly counted on the hopper.
 - (3) The denomination of the first note counted will then become the specified denomination.
Data will be cleared when the bank notes are removed from the stacker and the C key is pressed.



First note \$100
Second note \$100

Tenth note \$100
Eleventh note \$10



* The eleventh note will not be added to the count.

Detection of different denominations by the counting of a single denomination (D.D mode)

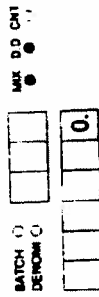
3. Procedures to clear count data
- ① When ADD is set to "OFF"
Data will be cleared when the bank notes are removed from the stacker and the next counting is started.
 - ② When ADD is set to "ON"
Data will be cleared when the bank notes are removed from the hopper and the stacker and the C key is pressed.



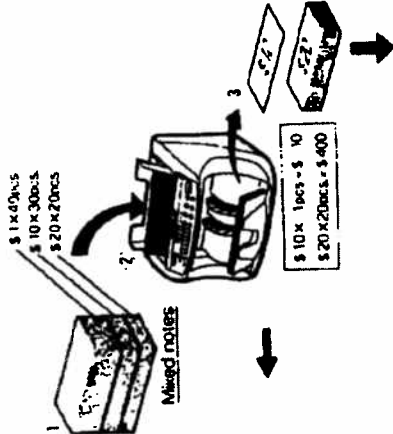
Counting of bank notes of mixed denominations and sorting by denominations (MIX SORT mode)

1. Counting procedures (e.g.: mixed twenty \$20, thirty \$10, and forty \$1 notes)

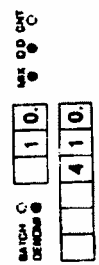
① Set the MIX SORT mode by pressing the MODE key.



② Place the bank notes in the hopper as shown in the figure on the right. The machine starts counting.



③ When the denomination has changed to \$10 after counting \$20 notes, "10." will be displayed and the machine will stop.



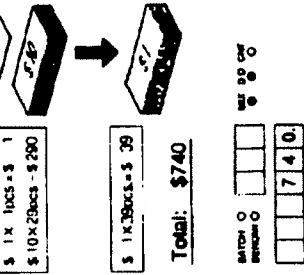
The total dollar value of the total or PCS of bank notes is displayed.

• There are twenty \$20 and one \$10 notes in the stacker.

④ When the bank notes are removed from the stacker, counting will start again automatically.

15 HOW TO OPERATE MACHINE

Counting of bank notes of mixed denominations and sorting by denominations (MIX SORT mode)

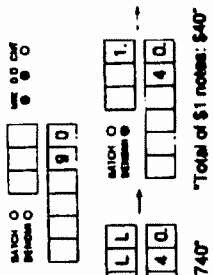


- ⑤ When the denomination has changed to \$1 after counting \$10 notes, "1." will be displayed and the machine will stop.
 - There are twenty-nine \$10 and one \$1 note in the stacker.
- ⑥ When the bank notes are removed from the stacker, counting will start again automatically.
- ⑦ After counting \$1 notes, there will be no notes left in the hopper and the system will stop.
 - There are thirty-nine \$1 notes in the stacker.

- ⑧ Remove the bank notes from the stacker to complete the counting.
- ⑨ The total number of bank notes is displayed when pressing the AMT/PCS key.

⑩ The counted PCS and the dollar value of bank notes of each denomination are displayed when pressing the CALL key.

→ ALL → \$1 → \$2 → \$5 → \$10 → \$20 → \$50 → \$100 → Original display



2. Procedures to clear count data
 - ① When ADD is set to "OFF" Data will be cleared when the bank notes are removed from the stacker and the next counting is started.
 - ② When ADD is set to "ON" Data will be cleared when the bank notes are removed from the hopper and the stacker and the C key is pressed.

HOW TO OPERATE MACHINE 16

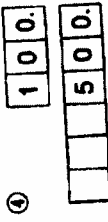
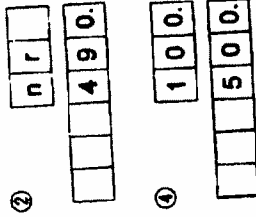


Operation at the time of a CF or nr (No Read) error

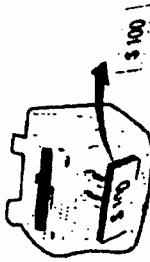
If a CF detection error ("CF" display) or undetectable note error ("nr" display) has occurred during the counting of bank notes and the note. In question is not a counterfeit or abnormal when it is checked, counting can be continued by pressing the specific denomination key.

<Example> in either of the MIX, D.D., or MIX SORT mode:

- ① Start the counting of one hundred \$100 notes.
- ② The machine stops at the 50th note with a display of "nr".
- ③ Check the top note in the stacker, and if it is normal, replace it in the stacker.
- ④ Press the [\$100] key.
- ⑤ With \$100 added to the total count, counting will be started again automatically.



- When the note detected is a counterfeit note or when it is not to be added to the count, remove the top note from the stacker and then press the RESTART key. (The removed note will not be counted.)



17 HOW TO OPERATE MACHINE



Connection of a printer (Option)

As an optional function, the system can be connected to a printer (CITIZEN model IDP3540 (RS-232), or a compatible model).

- ① Press the key after counting the bank notes in the MIX, D.D, or MIX SORT mode.
- ② The following will be printed out on the printer.

Note: The SEQ-No. number increases by 1 each time the key is pressed (in each mode). The mode currently set

| SEQ-No.001 | MIXED | |
|------------|-------|----------|
| | PCS. | AMOUNT |
| \$1 | 10(1) | 10.00 |
| \$5 | 20 | 100.00 |
| \$20 | 25(2) | 500.00 |
| \$100 | 20 | 2,000.00 |
| TOTAL | Z5(3) | 2,61.000 |

Note: When no notes have been counted, nothing will be printed when the key is pressed.

Note: No data will be printed for any denomination that has not been counted.


*) Figures in parentheses denote the number of bank notes that was input manually.

Total of the number manually input and that counted by the machine

Chapter 19 TROUBLE SHOOTING



When an error occurs, error code is indicated on the Batch Number Display. Confirm the cause of error by the indicated error code and remove the cause according to the following procedure.

| Error code | Type of error | Cause of error | Procedure for removing the cause of error |
|------------|---------------|--------------------------------|--|
| EJ (EJ) | Jam | Note is jammed in the machine. |  <ol style="list-style-type: none"> 1. Remove notes placed in the Hopper and/or Stackler. 2. Open the upper part of the Hopper and remove the jammed note(s). 3. Set all the removed notes into the Hopper. 4. Restart counting operation by pressing the RESTART key. <p>CAUTION: Before the Hopper is opened, make sure to turn off power switch.</p> |

| Error code | Type of error | Cause of error | Procedure for removing the cause of error |
|--------------------------|----------------------------|--|--|
| Ed (Ed) | Two sheets detection | Abnormal note is mixed in the bundle of notes to be counted | Check the bank notes in the stacker, remove all notes from the stacker, and load them again. Press the RESTART key to start counting operation. |
| EH (EH) | Half note detection | | |
| EC (Ec) | Chained note detection | | |
| EO (Eo) | Batch over stop | | |
| ES (ES) | Skewed note detection | | |
| HP (Hp) | Incorrect setting of notes | Improper setting of notes on Hopper, or no notes are set on Hopper | Set the bundle of notes correctly. (Refer to Chapter 4 "Precautions for handling of machine") |
| SE (Si) | Note is in the Stacker | Note(s) is remained on the stacker | Remove the note(s) left on the Stacker. |
| CL1-CL4 (CL1-CL4) | Sensor cleaning | Sensor(s) is dirty | Turn off the power and clean each sensor with supplied brush. (Refer to Chapter 5 "Daily cleaning of the machine") |

— TROUBLE SHOOTING 20

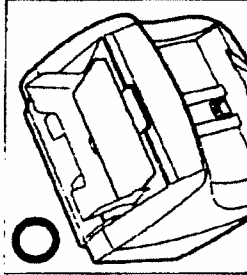
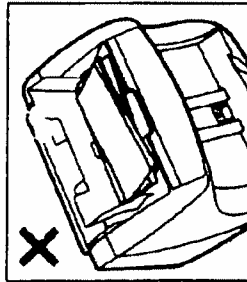
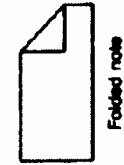
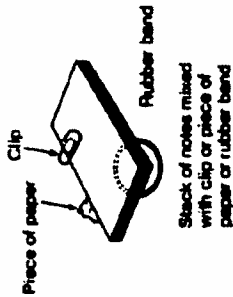


| Error code | Type of error | Cause of error | Procedure for removing/ How to remove the cause of error |
|-------------------------------|---------------------------------------|---|---|
| <i>Er 1-Er 2</i> (Er1-Er2) | Abnormality on the device | Abnormality counts in the device | Turn off the power once, then turn on again. (Refer to Chapter 5 "Daily cleaning of the machine".) |
| <i>Er 3-Er 5</i> (Er3-Er5) | Failure of sensor(s) | Sensor(s) are dirty. | Off power switch and clean each sensor with supplied brush. (accessories) |
| <i>[F (CF)</i> | CF node(s) detection | Abnormal nodes are mixed. | Take out the top note from the stacker and check it. Refer to "Chapter 2, How to operate the machine, Operation at the time of a CF or nr (No Read) error, on page 17." |
| <i>nr (nr)</i> | Not detectable (NO Read) | | |
| <i>dd (dd)</i> | Detection of a different denomination | A different denomination is mixed in (in the D.D mode). | Remove the top note of a different denomination from the stacker. Start counting again by pressing the RESTART key. |

21 TROUBLE SHOOTING

PRECAUTIONS FOR HANDLING OF MACHINE**How to Set Bank Notes**

- ⚠ Precautions related to proper setting of bank notes to be counted
- ▷ Damp and/or badly stained notes should be avoided.
- ▷ Check that no foreign matter (piece of paper, paper clip, dust, etc.) is mixed in with bundle of notes.
- ▷ Folded or curled notes should be straightened before they are set on the Hopper.
- ▷ For brick notes (bundle of new notes which are stucked to each other by ink), bend and flex the stack before it is set on the Hopper.

**How to align the notes to be counted**

- ▷ Align the long and short edges of the notes by lightly tapping the stack; insufficient alignment may cause an operation error.

Notes in Using Machine

☞ To make the most use of this machine

- ▷ Avoid operation under direct sunlight.
- ▷ Don't spill drink etc. on the machine.
- ▷ Don't press the operation-keys with a pointed tip of pencil or anything pointed.
- ▷ For maintenance, use specified parts; don't make improper maintenance.

☞ To use this machine safely

- ▷ A standard 110 60Hz grounded outlet should be used.
- ▷ Be sure to use the power cable that comes with machine.
- ▷ Unplug the machine before it is moved.
- ▷ Don't place tools, fingers, hair, loose clothing, etc. near any moving part.
- ▷ Don't open the Hopper during machine operation. When the Hopper is to be opened, make sure that the machine is first turned off.

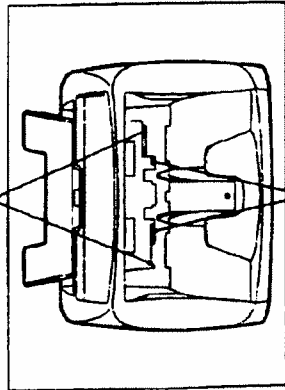
23 PRECAUTIONS FOR HANDLING OF MACHINE

Chapter
5

DAILY CLEANING OF THE MACHINE

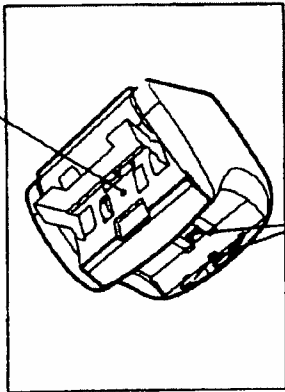
- ☞ Clean the machine after turning off the power switch and unplugging.
- ☞ Do not use chemicals for cleaning the machine, as this may result in deterioration in quality or discoloration.
- ☞ As these sensors are of optical construction, the system may cause miscounting should dust, dirt, etc. stick to the sensors.
Clean the sensors shown on the photo below with an accessory brush when counting operation is finished.
- ☞ Piece of paper, dust and/or trash etc. accumulated on the Hopper and/or stacker may be taken into the machine; this may cause a malfunction of the machine. Clean the Hopper and Stacker in the same way as above.

Detection sensor

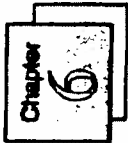


Counting sensor

Auto start sensor



Repeat sensor



SPECIFICATIONS

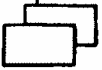
- Dimensions
275mm(W) x 195mm(H) x 230mm(D)
(Total height is 235mm when the aux. hopper is attached.)
- Weight
Approx. 6.1 kg
- Countable notes
MIX, D.D.
MIX SORT mode ... US dollars (\$1, 2, 5, 10, 20, 50, 100)
CNT mode ... Dimensions: 50mm x 100mm to 100mm
x 160mm Thickness: 0.06 to 0.12 mm
- Counting speed
MIX, D.D MIX SORT mode ... 1000 notes/min.
CNT mode ... 1000, 1500 notes/min.
- Feed system
Roller friction system
- Hopper capacity
300 sheets
- Stacker capacity
200 sheets
- Counting number display
Six digits LED
- Batch number display
Three digits LED
- Power source
AC110V $\pm 10\%$ (50/60 Hz)
- Power consumption
45W
- Buzzer
Give an alarm when different denomination is detected
Give an alarm when CF is detected

25 SPECIFICATIONS

ACCESSORIES

- Cleaning brush 1 pc.
- Machine cover 1 pc.
- Operating instructions 1 pc.
- Power cord 1 pc.
- Fuse 1 pc.

MEMO



27 MEMO

WARNING:

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

- m Specification subject to change without notice.
- m We shall be free from any balance for the injury or right of a third party caused by using the data contained herein.
- m Reproduction for the purpose of profit-making without permission shall be forbidden.

GLORY.