

J-700Series

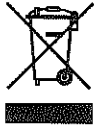
Instruction Manual

LAUREL

www.lbm.co.jp

INTRODUCTION

Thank you very much for purchasing the "LAUREL J-700 series" friction currency counter. This Instruction Manual contains its operating and necessary trouble shooting procedures. Please read carefully and understand the Manual before operating the Machine. Keep this Manual handy for ready reference.



Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)

This symbol on the products or on its packing indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your service partner.



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1. SAFETY INSTRUCTIONS

- Be sure to read this "Safety Instructions" carefully before operation.
- Important instructions to be reminded are described in the "Safety Instructions". Be sure to follow these instructions to use the Machine properly. Please note the Warning, Caution marks and descriptions below:



Warning

In case the Machine is wrongly operated without respect to this mark, there is a possibility of fatal or serious injury to the operator.



Caution

In case the Machine is wrongly operated without respect to this mark, there is a possibility of injury or material physical damage to the Machine.

■ Examples and Meanings of Illustrations



This mark warns the operator to be cautious. The details are specified in or near this mark. (the left mark warns that your hand may get pinched)



This mark signifies prohibitions. The details of the prohibitions are described in or near this mark. (This mark warns you not to "touch")



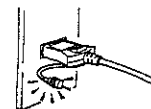
The mark shows what must be done. The details are described in or near the mark. (This mark shows the necessity of proper grounding)



Warning



If an adapter is used, proper grounding will be required. Without proper grounding, there is an electric shock hazard if an electric leakage occurs.



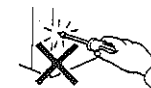
While cleaning the machine, it is strictly prohibited to use of Air Spray Cleaner contained flammable gas such as LPG.



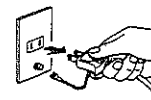
Caution



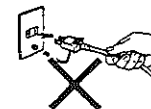
Don't repair or disassemble the Machine, or an accident may occur.



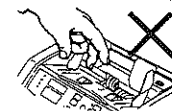
When replacing a fuse, be sure to disconnect the plug from the outlet. Without disconnecting the plug, it may cause an electric shock or an injury.



Don't grasp the cable when disconnecting the plug. It may cause an electric shock or a fire due to short-circuiting.



While counting the notes, care should be taken to prevent your hand, hair, tie, etc. from getting into the Machine.



For continued protection against risk of fire, replace only with same type and rating of fuse



2. BEFORE OPERATING THE MACHINE

Notes



2-1. Descriptions of other Marks illustrated in this Manual



Supplementary instructions to give useful hints on operating the Machine.



Supplementary explanations for operating the Machine.
Refer to this mark if you have any problem while operating the Machine.
Your problem may be solved.



This mark shows reference page(s) of this Manual.

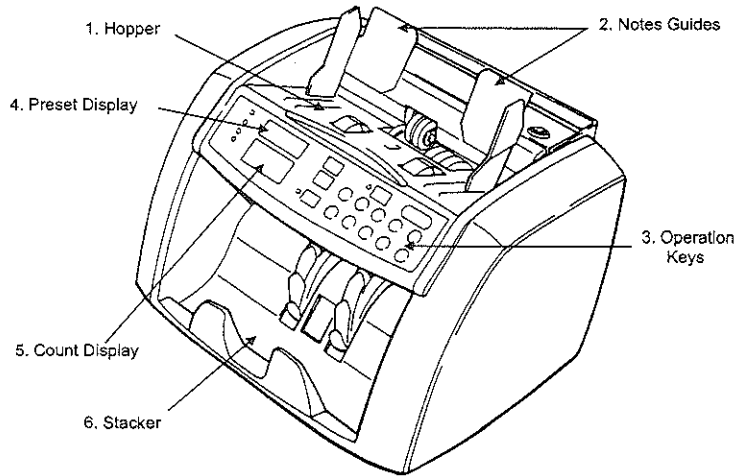
Step 1. This mark shows the operational steps.



3. OVERALL DESCRIPTIONS

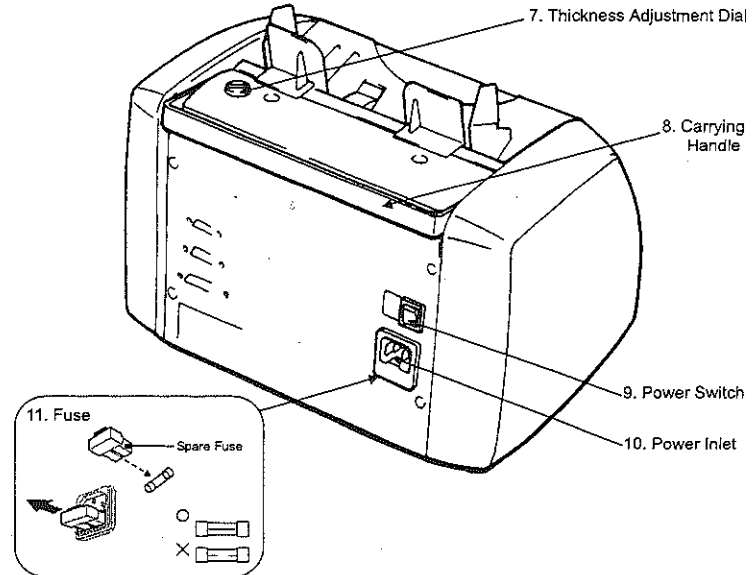
3-1. Names and Functions of Parts

■ Front View



1. Hopper
Notes to be counted are loaded onto the Hopper.
2. Note Guides
Notes can be centered using the Note Guides.
3. Operation Keys
Refer to Page 7 for description of each key.
4. Preset Display
The Preset Display shows preset number, Count Mode sign and accumulated count on Add Function.
5. Count Display
The Count Display shows count, Error Code and preset number on Preset Mode with Add Function.
6. Stacker
Counted notes are stacked onto the Stacker.

■ Rear View



7. Thickness Adjustment Dial
The Dial is to adjust feeding condition. Use a coin to turn the Dial.
If the Display shows "CHn" or "dbL" error during normal counting operation, adjust the Dial toward the "-" sign. If the count is performed at an inconstant speed, adjust the Dial toward the "+" sign.
8. Carrying Handle
It is used for carrying the machine.
9. Power Switch
It is to turn on and off.
10. Power Inlet
It is to connect the Power Cable.
11. Fuses
In case of the fuse is burnt out, use a Fuse with the same capacity for replacement.

3-2. Names and Functions of Keys



The Machine detects the Doubles Feeding and the detection level can be selected with Level Key depending on the density of notes.



(Only for J-700 and 710)
Auto Start and Manual Start can be selected with Auto Key.



Preset Mode and preset number can be set with Preset Key.



(Other than J-700)
Any Preset Number can be set with Ten Keys.
The setting of various functions can be made with pressing each Ten Key with yellow mark after pressing Start-Clear Key or Function Key.

Refer to Page 11 to 13 for the various functions.



Every time the machine has completed counting, the count will be added to the Preset Display with pressing Add Key.

Refer to page 10 for more detail.



Plus and Minus Keys are used for setting any Preset Number.



Refer to page 9 for more detail.



The count starts with pressing Start-Clear Key on Manual Start Function. The Count and Error Code on the Display will be cleared with pressing this Key.

To show count result in pieces for each denomination after counting notes in Value Mode. (Only for J-795)



(Other than J-700 and J-710)
The function of each Ten Keys with yellow mark is activated with pressing Function Key.

Refer to page 11 to 13 for more detail.



(Only for J-730)
This function is to detect the magnetism on notes.

Refer to page 12 for more detail.

4. MODES AND FUNCTIONS

4-1. Modes

■ COUNT Mode

The Preset Display shows "Co" on Count Mode.
The machine continues to count until the notes on the Hopper are exhausted.



Press Preset Key until the Display shows "Co".

■ PRESET Mode

The Preset Display shows "P" plus number on Preset Mode. (Ex. P 100)
The count stops after counting preset number of notes.
If the note on the Hopper is insufficient, the Count Display blinks and the machine continues to count after loading additional notes on the Hopper.

● How to set Preset Number

(Only J-700)

Press Preset Key to change Preset Number in following sequence:

Co(Count Mode)→P100→P 50→ P 25→P 20→P 10→ P5

Press + or - Key if any Preset number other than the fixed Preset Number is required.



(Other than J-700)

Press Preset Key to change Count Mode or Preset Mode alternately. Press Ten Keys to set any required number.



Press "0" to change the Mode to Count Mode.

■ VALUE Mode

● Normal Value Count

1. After pressing the Function Key and turn on the VALUE Function.
2. Count the notes.
3. The display indicates the count result in value.
4. It indicates the count result of each denomination in pcs. by pressing the START/De key.



When J-720 counted 100 Euro, 200Euro or 500 Euro , depress a Ten-key "8", "9" or "0" corresponding to the denomination. It will be accumulated to the total value. If the last note on the Stacker is not accumulated to the total amount, remove the note from the Stacker and depress "START/C" key.

● Single Value Count (Value with DDC Function)

1. Press the VALUE key.
2. After pressing the FUNCTION key, turn on the DDC Functions.
3. Count the notes.
4. The machine performs Value Count only for single denomination identical to the first counted note. When another denomination is counted, it generates 'DDC' error.

4-2. Functions

The function described in this manual may not be available depending on the Model.

■ ADD Function



Add function is available in both Count Mode and Preset Mode.
Every time the machine has completed counting, the Count Display will show present counted number and the Preset Display shows accumulated count.

Press Add Key to turn on or off the function.
Press Start-Clear Key for 2 seconds to clear the accumulated count.

■ Doubles Detection Function



The Machine detects the Doubles Feeding and the detection level can be selected with Level Key depending on the density of notes.

The Key functions to change four different levels in the following sequence:








	Auto Level: It will scan the first note and automatically set the right level.
	Level 1: To count for light colored (thin) notes.
	Level 2: To count notes with the middle of Level 1 and Level 3.
	Level 3: To count dark colored (thick) notes.
OFF	The function should be off when counting very dark color notes or very thick notes. However the machine can not detect the Doubles Feeding.



Count Speed Function




- The count speed can be set with this function.

Depending on key specification, operation is different as follow:

   Remove the notes from the Hopper and Stacker and press Start-Clear Key. The Display shows present counting speed. (Ex. SP800) The speed can be changed with pressing 1 to 3 Ten Keys while the Display showing present speeds.

  The count speed changes with pressing Speed Key (1 Ten Key) after pressing Function Key. The display indicates the speed as following:



  Each level of counting speed is different depending on the model. Refer to "7. SPECIFICATIONS" for further details.

	Low speed
	Mid speed
	High speed

Country Select Function (Only for J-797)

CS Function is the function to select the currency. With selecting the currency, various detection levels will be set automatically corresponding to the currency selected. With this setting, the unit realized more precise detection result.



Press CS Key (2 Ten Key) after pressing Function Key. The display indicates present currency setting. The currency setting changes as per pressing CS key. In case the currency setting was wrongly selected, it may cause of detection error.

  Available Currency on the Display:
 "Euro": Euro Currency
 "US": US Dollars
 "Ru": Russian Rubles
 "LC": Local Currency

IR Detection Function

- This function is to detect the specific property on notes.

J-790/797

  When the LED is on, the IR detection Function is activated.

MG Detection Function

- This function is to detect the magnetism on notes.

Depending on the model, operation is different as follow:

J-730



When the LED is on, the MG detection Function is activated.


J-770



After pressing Function key, MG detection level can be changed by pressing 4-Key. The dot above each mark on the display turns on when it is activated.

J-795



 ICD (Intelligent Code Detection) It provides the most accurate detection designed for Euro.

J-790/797



AMG (Advanced Magnetic Detection) It provides more accurate MG detection by Advanced MG detection system.

Color and Size Check Detection for J-720



The count stops when machine detects different size or color than Euro notes. The dot above CSD mark turns on when the function is activated.

AUTO Start Function

- Auto Start

The count starts automatically after loading notes onto the Hopper.

- Manual Start

The count starts with pressing Start-Clear Key.

Depending on key specification, operation is different as follow:



Auto Start and Manual Start can be selected with pressing Auto Key. When the light is on, the AUTO Start Function is activated.



Auto Start and Manual Start can be selected with pressing Auto Key (5 Ten Key) after pressing START/C Key. The Display indicates A when Auto Start is activated.

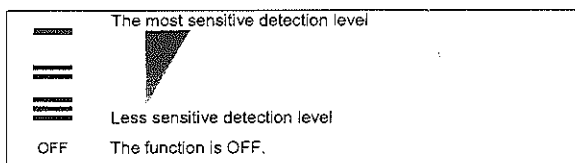


■ UV Detection Function

The count stops when a note with different UV reflection is counted.
The dot above UV mark lights on when the function is activated.



The detection level can be selected with pressing UV Key (6 Ten Key) after pressing Function Key.
The Key functions to change four different levels in the following sequence:



■ Length Size Check Function

The count stops when a note with different length is counted.
The dot above Length mark lights on when the function is activated.



■ Value Counting Function

This mode is to show the count result in value.
The dot above Value mark lights on when the function is activated.



■ Width Size Check Function

The count stops when a note with different width is counted.
The dot above Width mark turns on when the function is activated.



■ Difference Denomination Check for J-795

The count stops when machine detects different denominations than first counted Euro note.
The dot above DDC mark turns on when the function is activated.



■ Denomination Select Keys for J-720

The count stops when machine detects higher denominations than 50 Euro note.
Press correspond key to add the value of last counted notes to total amount.



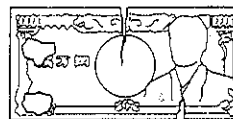
5. OPERATION

5-1. Notes

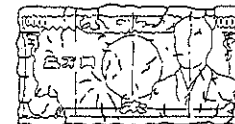
■ Examples of bad notes

Do not count the following notes which may cause of jamming or count problems.

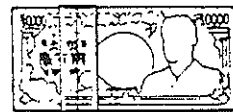
- Torn notes or notes with hole



- Worn-out or flabby notes



- Notes with tape

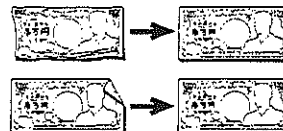


- Dirty notes

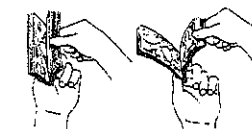


■ Before loading notes

- Wrinkled note and dog ear note should be flattened.



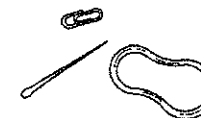
- Brick notes should be thumbed.



- Align well the edges of notes.

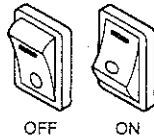


- Remove foreign matter from notes.



5-2. Basic Operation

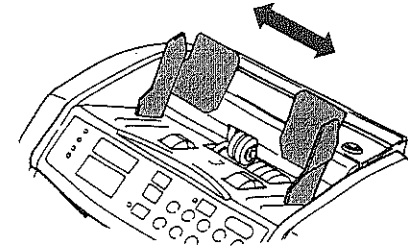
- Step 1.**
Turn on the Power Switch.



- Step 2.**
Set Counting Mode and Doubles Detection Level.
1. Select Count Mode . Set any preset number on Preset Mode if necessary.
 2. Set the Doubles Detection Level with Level Key. The normal notes can be counted with Auto Level, however, the level should be selected depending on the characteristics of notes.

- Step 3.**
Set various functions if necessary.
1. Set Count Speed. Refer to page 11.
 2. Set Auto Start Function. Refer to page 12.
 3. Set CF Detection Function. Refer to page 11 and 12.
 4. Set Length and Width Size Check Function. Refer to page 13.

- Step 4.**
Set Note Guides to the notes to be counted.



- Step 5.**
Load the notes onto the Hopper and press Start-Clear Key to count if necessary.

- Step 6.**
Remove the counted notes from the Stacker after complete stop of counting.

6. ACCESSORIES & OPTIONS

6-1. Accessories

1. Power Cable1
2. Instruction Manual1
3. Quick Reference1

6-2. Options

For details of options, please contact your local distributor.

1. External Display
2. RS-232C (Other than J-700, J-710/A and 730)

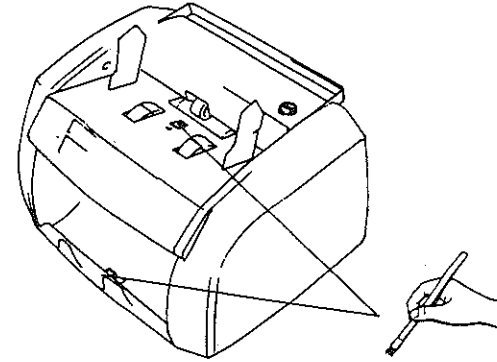
7. SPECIFICATIONS

1. Counting Speed	J-700	1200 notes per minute
	J-710 and 730	800/1000/1200 notes per minute
	J-710A/720/740II/750II/760II/770II/777/790/795/797	850/1250/1500 notes per minute
2. Hopper Capacity	Approx. 500 notes	
3. Stacker Capacity	Approx. 200 notes	
4. Note Size	Max. 185X100(mm) Min. 100X50(mm)	
5. Note Thickness	0.08 ~ 0.15(mm)	
6. Power Supply	100/110/220/240 V ±10% 50/60Hz	
7. Operating Conditions	Temperature	Operation : 5~35 °C Stand by : 5~55 °C (With dry condition)
8. Power Consumption	Operation : 40W Stand by : 10W	
9. Dimensions	282 mm (W) x 233 mm(D) x 190 mm (H)	
10. Weight	Approx. 7 kg	

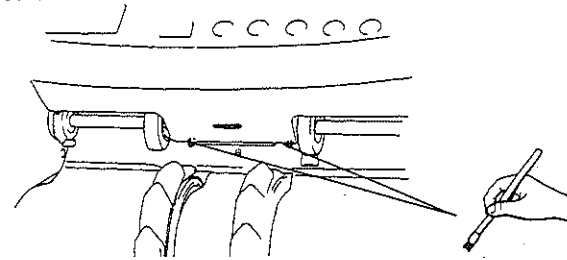
8. DAILY CARE

Clean the following Sensors with a brush periodically.
Use dry cloth to clean the outside cabinet.

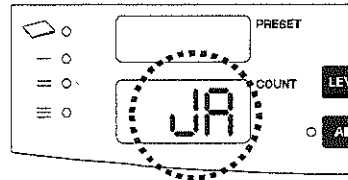
● Stacker Sensor and Hopper Sensors





● Count Sensors


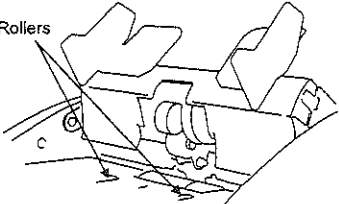




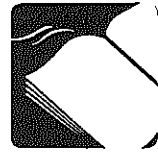
9. ERRORS AND REMEDIAL MEASURES






When an error occurs during counting, the Count Display will flash the error code. Clear the error in accordance with the following procedure.

Error Code	Cause of Error	Remedial Measures
Flashing of displayed number	Feeding Failure When preset, the number of counted notes does not reach the preset number.	Take out the note causing feeding failure from the Hopper and reset it on the Hopper properly. Put additional notes on the Hopper.
ASn	Notes are fed with a excessive angle.	<ol style="list-style-type: none"> 1. Take away the last note from the Stacker and make sure that it is the same note as the others. 2. Depress "START/C" Key. 3. Recount all the notes taken away from the Stacker.
bi	100, 200 or 500 Euro note was counted in value mode. (Only for J-720)	<ol style="list-style-type: none"> 1. Check the last note on the Stacker. 2. If the last note on the Stacker is not accumulated to the total amount, remove the note from the Stacker and depress "START/C" key 3. When the last note on the Stacker is accumulated to the total amount, depress Ten-key "8", "9" or "0" corresponding to the denomination.
Cd 1 Cd 2	Color of note is different than the Euro note.	<ol style="list-style-type: none"> 1. Display indicates "LAST-XX". 2. Remove the number of notes indicated by 'XX' from the top of the notes in the Stacker. Make sure the notes are OK or not. 3. Press the START/C key to continue the counting.
CHn	Excessively long (shorter side) note or overlapped notes are fed.	<ol style="list-style-type: none"> 1. Take away the last note from the Stacker and make sure that it is the same note as the others. 2. Depress "START/C" Key. 3. Recount all the notes taken away from the Stacker. <p> When this error happens very often, Readjust thickness level with Thickness Adjustment Dial.</p>
CLL	Left Line Sensor is dirty.	<ol style="list-style-type: none"> 1. Clean the Line Sensor specified by Error Code.
CLr	Right Line Sensor is dirty.	<p></p> <p>If the Error is not cleared, take following measure. Turn off the Length Size Check Function. Open the Note Guide to the maximum position. Count the notes several times for cleaning with placing notes either side of Hopper according to the Error Code.</p>
CLt	The left / right line sensor is dirty.	

Error Code	Cause of Error	Remedial Measures
CF	Suspected note is fed.	Other than J-730 and J-795 <ol style="list-style-type: none"> 1. Remove the last note to be counted from the Stacker. 2. Depress "START/C" Key to continue the count.
		<p>Only for J-730</p> <ol style="list-style-type: none"> 1. Take away the last note from the Stacker and make sure that it is the same note as the others. 2. Depress "START/C" Key. 3. Recount all the notes taken away from the Stacker. <p>Only for J-795</p> <ol style="list-style-type: none"> 1. The display indicates "LAST-XX". 2. Remove the number of notes indicated by 'XX' from the top of the notes in the Stacker. Make sure the notes are OK or not. 3. If the notes are OK, place again the notes onto the Hopper. 4. Press the START/C key to continue the counting.
dbL	Two notes are fed at a time or a dirty note is fed.	<ol style="list-style-type: none"> 1. Take away the last note from the Stacker and make sure that it is not a dirty note. 2. Depress "START/C" Key. 3. Recount all the notes taken away from the Stacker. <p> When this error happens very often,</p> <ol style="list-style-type: none"> 1. Readjust thickness level with Thickness Adjustment Dial. 2. Clean Count Sensors.
HF	Half-size note is fed	<ol style="list-style-type: none"> 1. Take away the last note from the Stacker and make sure that it is the same note as the others. 2. Depress "START/C" Key. 3. Recount all the notes taken away from the Stacker.
JA	Notes jammed in the roller.	<ol style="list-style-type: none"> 1. As illustrated below, lift up the feeding part by hand and take away jammed note(s). When there is a difficulty in taking away jammed notes, turn Kick Rollers by hand. 2. Depress "START/C" Key. 3. Recount all the notes taken away from the Stacker. <p></p> <p> When this error happens very often, please clean Sensors. (Refer to page 18 for more detail.)</p> <p> While removing the notes, care should be taken to prevent your fingers to be pinched.</p>



Error Code	Cause of Error	Remedial Measures
LP	UV lamp is working abnormally	<ol style="list-style-type: none"> 1. Turn off and on the Power Switch. 2. If the error can not be cleared, please contact to your service partner.
SH	Excessively short (shorter side) note is fed.	<ol style="list-style-type: none"> 1. Take away the last note from the Stacker and make sure that it is the same note as the others. 2. Depress "START/C" Key. 3. Recount all the notes taken away from the Stacker.
SC-1	Length (longer side) of note is longer than the first note or shorter than the first note.	<ol style="list-style-type: none"> 4. Check the last note on the Stacker. (denomination, length) 5. Take out the last note from the Stacker. 6. Depress "START/C" Key to continue the counting.
SC-2	Width of note is shorter than the first note.	<ol style="list-style-type: none"> 1. Check the last note on the Stacker. (denomination, width) 2. Take out the last note from the Stacker. 3. Depress "START/C" Key to continue the counting.
SC-3	Width of note is longer than the first note.	<ol style="list-style-type: none"> 1. Check the last note on the Stacker. (denomination, width) 2. Take out the last note from the Stacker. 3. Depress "START/C" Key to continue the counting.
oPE	Miss-Operation	<p>When there are notes on the Stacker and "START/C" Key is depressed, this error is shown. Take away all the notes from the Stacker.</p>  <p>When this error happens without any notes on the Stacker,</p> <ol style="list-style-type: none"> 1. Clean the Stacker sensor.
oC	Over-Count	<ol style="list-style-type: none"> 1. Take away the last note from the Stacker and make sure that it is the same note as the others. 2. Depress "START/C" Key. 3. Recount all the notes taken away from the Stacker.  <p>When this error happens very often,</p> <ol style="list-style-type: none"> 1. Adjust thickness level with Thickness Adjustment Dial.

 If the Machine is still out of order even after the above remedial measures are taken, call your serviceperson and inform of the detail.



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Friction Currency Counter J-700 Series INSTRUCTION MANUAL

PUBLISHING DATES: 12th Edition: March 2007

PUBLISHED BY: LAUREL BANK MACHINES CO., LTD., JAPAN
INTERNATIONAL OPERATIONS

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Printed in Japan
No.: J70080717-B12



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