

Owner's Manual



HIGH SPEED ELECTRIC BILL COUNTER



RBC-660

Thank you for purchasing the Royal Sovereign High Speed Electric Bill Counter, RBC-660. This manual will provide you with safety information, instructions for optimal use, and proper care and maintenance for your product. Please read this manual carefully before operating.

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SAFETY INSTRUCTIONS

When using this machine follow these basic safety precautions to reduce risk of fire, electric shock, or injury.

WARNING

1. Only use the power cord that comes with the machine. Using a different power cord may result in electric shock, fire, or cause serious damage to the machine. Plug the power cord into a properly grounded wall outlet.
2. Do not use the machine if the power cord is damaged. This may result in electric shock, fire, or other hazards.
3. Do not place the machine in an area where it may be exposed to water or other liquids.
4. To reduce the risk of electrical shock, do not take apart the machine. When service or repair is needed bring to a qualified service repair technician.
5. When unplugging the power plug, grip the plug to pull it out. Pulling the cord may result in electric shock, fire, or damage to the machine.
6. Do not place objects on the power cord and do not bend it excessively. This may result in electric shock, fire, or other hazards.

CAUTION

1. Before dusting the machine with a brush, unplug the machine from the wall. Do not use liquid or aerosol cleaners on the machine.
2. Do not use the machine in areas with high temperature or high humidity. This may result in the machine not working properly.
3. When not using the machine for long periods of time, unplug the power cord from the outlet.

Read & Fully Understand This Owner's Manual Before Using This Machine.

BOX CONTENTS



Bill Counter



Power Cord

PRODUCT VIEW



QUICK START GUIDE

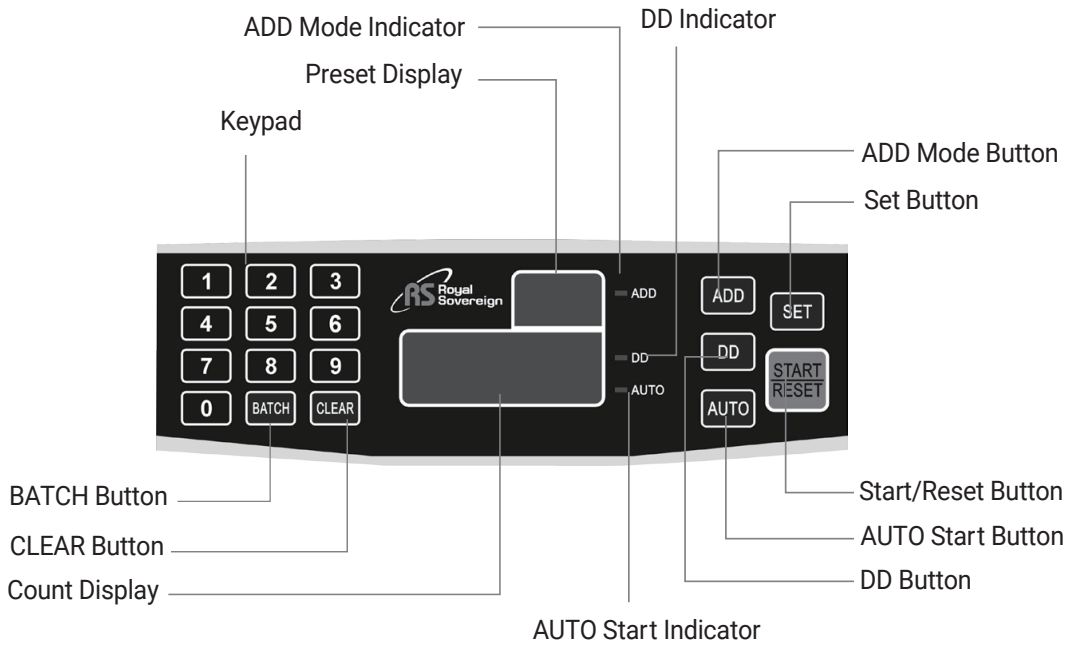
1. Plug the power cable into the back of the unit and into the wall power outlet (B).
2. On the back of the machine, flip the power switch to power on (A).
3. The machine will go through an automatic self-diagnostics test to ensure accurate bill counting. The counting wheels in the bill counter will spin several times to ensure it is ready for use. When the machine has completed its test run and "0" displays on the machine, it is now ready for counting.
4. Place your currency into the hopper to automatically begin counting.



A: Power Switch
B: Power Socket

For More Detailed Instructions, Go To Page 7

CONTROL PANEL



CONTROL PANEL FEATURES

Auto and Manual Start Modes

The machine is preset to automatically start counting bills once placed into the hopper. To change to the manual start mode, press "AUTO", insert the bills into the hopper, and press "START/RESET". Press "AUTO" again to return to auto mode.

Dimensional Detection

To manually turn the DD function on/off, press the "DD" button. The DD indicator light will light up showing that the function has been turned on. If the machine detects a counterfeit note, it will stop counting. The preset display will show DD. Remove the suspicious note and press "START" to continue counting.

SET Key Function

Use the "SET" button to adjust the sensitivity of the Dimensional Detection and Double Note Detection. Press the "SET" key once, the preset window will display DD, and the counting window will display 1~5. These numbers are for DD sensitivity, 1 is for the lowest, and 5 is for the highest. Press the number key to set it directly. Press the "SET" key twice, the preset window will display Double, and the counting window will display 1~5. These numbers are for Double sensitivity, 1 is for the lowest, and 5 is for the highest. Press the number key to set it directly.

Batch Counting Mode

The machine is preset to common counting mode. To count bills in batches, press "BATCH". To change batch amount, use the keypad to enter a batch number between 1 and 999. Press "BATCH" or "CLEAR" key to clear.

Add Mode

Use this mode to add the quantity of bills counted to get an accumulative total. To set the machine to add mode, press the "ADD" button. The add indicator will light, showing that this mode is turned on. Place bills into the hopper and the machine will automatically begin to count them. When you remove the counted bills from the stacker and place new bills into the hopper it will continue counting where it left off on the previous set of bills. To stop using the add mode press the "ADD" button again and the indicator light will shut off.

PRODUCT OPERATION

- 2/ **Attach power cable to the back of machine, plug into a three prong outlet, and turn the power switch on.**
 - The unit will conduct an automatic self-diagnostic test to ensure accurate counts.
 - After five seconds of the counting wheels spinning, the screen will display a "0".
 - If there is a problem, the preset display will show an error code. (See ERROR CODE DISPLAYS -LOCATED ON PAGE 8.)
- 3/ **Select bill counting settings.**
 - Before counting, select counting settings that are related to your counting needs, such as: Add mode or Batch mode.
- 3/ **Insert the bills into the hopper to begin counting.**

MAINTENANCE OF THE MACHINE

WARNING: Before doing any dusting, turn the power switch off and disconnect the power cord from the machine. It is very important to clean all the sensors in the machine with a soft brush to avoid any paper particles or dust from sticking to the light transmitter or the light-receiver sensors. It is important to clean the inside of the machine occasionally. Unplug the machine and lift the top cover to gain access to the interior.

If necessary, the glass surfaces of the detectors may also be wiped with a soft cloth dampened with alcohol.

To get the best results out of your bill counter, Royal Sovereign recommends using **Royal Sovereign Cleaning Cards (RBC-CLN)** to remove dirt, dusts, oils, and other contaminants from your bill counter. With the machine on, simply run the cleaning card through the machine like a bill. This cleaning card will run through and clean the sensors of dirt and other contaminants. Cleaning cards are recommended to be used after every 100 cycles.

CAUTION: DO NOT CHANGE THE POSITION OF THE DETECTORS AND/OR OPTICAL SENSORS

SPECIFICATIONS

Model	RBC-660
Power	110 V / 60 Hz (US, CA) or 220~240V / 50Hz (EU)
Power Consumption	<80W
Temperature Range of Operation	32~104°F / 0~40°C
Hopper Capacity	200 notes
Counting Speed	1,000 bills per minute
Display Range	Counting: 4 Digits / Batch Counting: 3 Digits
Dimensions	312.4 × 248.9 × 162.6 mm (12.3 x 9.8 x 6.4 in)
Net Weight	14.0 lbs. / 6.4 kg

TROUBLESHOOTING

Problem	Reason	Solution
Bills get damaged	Hopper Tension is too tight	To loosen the tension, please turn the bill thickness adjuster (located on the top of the machine) one notch to the right (+). Repeat bill counting and adjust if problem continues.
Machine runs slow	Hopper Tension is too tight	To loosen the tension, please turn the bill thickness adjuster (located on the top of the machine) one notch to the right (+). Repeat bill counting and adjust if problem continues.
Bills eject from the machine	Hopper Tension is too loose	To tighten the tension, please turn the bill thickness adjuster (located on the top of the machine) one notch to the left (-). Repeat bill counting and adjust if problem continues.
Display shows miscount	Hopper Tension is too loose	To tighten the tension, please turn the bill thickness adjuster (located on the top of the machine) one notch to the left (-). Repeat bill counting and adjust if problem continues.

ERROR CODE DISPLAY AND SOLUTIONS

The display may show some error code in counting, which means there are some problems with the machine. Refer to the chart below to solve the error.

Fssps!Dpe f	Sfbtpo
ER0	Left counting sensor
ER1	Right counting sensor
ER2	Hopper sensor
ER3	Stacker sensor
ER8	Width detection sensor
EC1	Half bills, or ripped bills. Remove the bills and press "RESET".
EC2	Double bills, 2 or more bills stuck together. Place the bills from the stacker back into hopper and press "RESET" to continue counting.
EC3	Chain of bills, 2 or more bills counted at the same time. Place the bills from the stacker back into hopper and press "RESET" to continue counting.
DD	Different width bills. Remove the bill and press "RESET" to continue counting.

If you are receiving error codes ER0-E08 check the machine for dust. If you continue to receive error codes, please contact Royal Sovereign's Service Center at 1-800-397-1025.

ONE YEAR LIMITED WARRANTY

Royal Sovereign International, Inc. warrants this product to be free from defects in material and workmanship for a period of one (1) year. This warranty is extended to the original purchaser only.

This warranty only covers products that are properly installed, properly maintained, and properly operated in accordance with the instructions provided. This limited warranty does not cover any failures or operating difficulties due to normal wear and tear, accident, abuse, misuse, alteration, misapplication, improper installation, or improper maintenance and service by you or any third party.

Returned product will not be accepted without a Return Authorization number. To request a Return Authorization number, please visit us at www.royalsovereign.com. All transportation costs for the return of damaged product or parts will be the responsibility of the purchaser. Return defective product, in original packaging, to the address below.

Royal Sovereign International, Inc. requires reasonable proof of your date of purchase from an authorized retailer or distributor. Therefore, you should keep your receipt, invoice, or canceled check from the original purchase. The limited warranty shall be limited to the repair or replacement of parts which prove defective under normal use and service within the warranty period.

Royal Sovereign International, Inc. (and its affiliated companies) SHALL HAVE NO LIABILITY WHATSOEVER TO PURCHASER OR ANY THIRD PARTY FOR ANY SPECIAL, INDIRECT, PUNITIVE, INCIDENTAL, OR CONSEQUENTIAL DAMAGES. Some states do not allow the exclusion or limitation of incidental or consequential damages so the above exclusion and limitations may not apply to you.

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