STEELMASTER®

Owner's Manual

4820 Currency Counter

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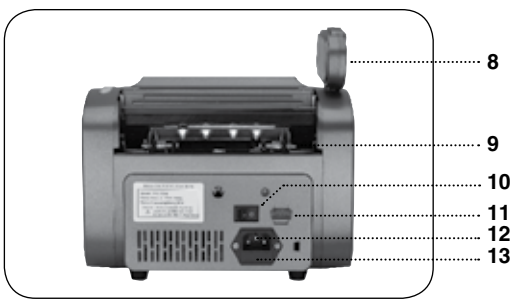
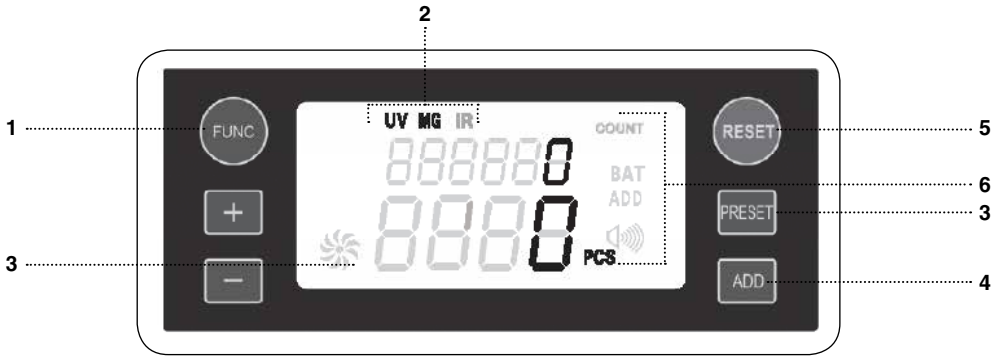
1.1 Front and Rear Views

1. Hopper
2. Retractable Handle
3. Lid
4. Control Panel
5. LED Display
6. External Display
7. Stacker



8. Rotating Display
9. Adjustment Screw
10. Power Switch
11. External Display Outlet
12. Power Outlet
13. Fuse

1.2 LED Display/Control Panel



1. Counterfeit Detection Function
2. Counterfeit Detection Indicators—UV (Ultraviolet), MG (Magnetic), IR (Infrared)
3. Batch Mode
4. Add Mode
5. Reset
6. Add/Batch/Count Mode Indicators, Alarm Indicator

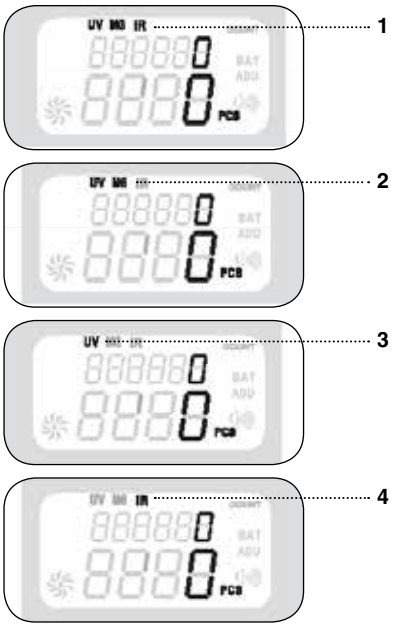
1.3 Side Control Panel

1. Add Mode
2. Batch Mode
3. +1 For Batch Mode
4. Batch Mode Amount Selector

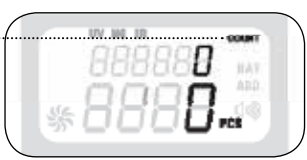
2.1 Operation Modes

COUNTERFEIT DETECTION MODE
Press the FUNC button until the desired detection mode is selected

1. Counterfeit Detection by UV, MG and IR
2. Counterfeit Detection by UV, MG
3. Counterfeit Detection by UV
4. Counterfeit Detection by IR



COUNTING MODE
Counterfeit detection is off and the machine only counts the bills. Press the FUNC button until UV, MG and IR indicators are off and count indicator is on.



2.1 Operation Modes

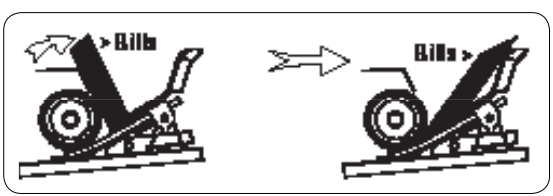
(ADD) ADD MODE
To turn on ADD Mode, press ADD. ADD mode allows you to count multiple stacks of bills while maintaining a grand total amount.

(PRESET) BATCH MODE
1) To turn on Batch Mode, press PST. Batch mode allows you to select how many bills will be counted.
2) After the PST button is pressed, press the ADD button to select how many you would like counted based on pre-determined amounts 100, 50, 20, 10, 5, 1.
3) Load the bills in the hopper and the machine will stop counting when the selected number is obtained. You can press the +1 button to adjust the amount to the exact count you want.

(RESET) RESET/CLEAR
Press RESET to clear the selection and restart.

2.2 The Right Way to Load Bills

Please load the bills in the machine the same as the following steps



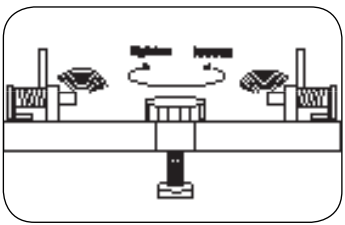
3.1 Error-Message Display Codes

Code No.	Malfunction causes	Solutions
E01	The left counting sensor is broken or dirty	Replace or clean sensor
E02	The right counting sensor is broken or dirty	Replace or clean sensor
E03	The code disc is dirty or loose	Tighten or clean sensor
E04	The hopper sensor is broken or dirty	Replace or clean sensor
E05	The stacker sensor is broken or dirty	Replace or tighten sensor
E10	Ambient light is too high/UV sensitivity light is too high	Lower the ambient light/Lower the UV light
E11	The connector of front display is loose	Tighten connector

Code No.	Alarm Meanings	Solutions
EE1	The fake bill reflecting fluorescence is being checked out by UV	Take out the first bill (fake bill) in the stackers, then press (reset) to continue counting and detecting
EE2	The fake bill without magnet is being checked out by MG	Take out the first bill (fake bill) in the stacker, then press (reset) to continue counting and detecting
EE4	The broken bill or half bill is being checked out	Take out the broken or half bill in the stacker, then press (reset) to continue counting and detecting
EE4	The left (right) counting sensor is dirty or broken	Clean or replace the counting sensor
EE6	The fake bill with different located magnet is being checked out by MG	Take out the first bill (fake bill) in the stacker, then press (reset) to continue counting and detecting
EE8	The bill width size in not within the range	Take out the first bill (fake bill) in the stacker and press (reset) to continue counting and detecting
EEH	The fake is being checked out by IR	Take out the first bill (fake bill) in the stacker and press (reset) to continue counting and detecting
EE9	Two bills are counted as one	Turn the adjustment screw clockwise

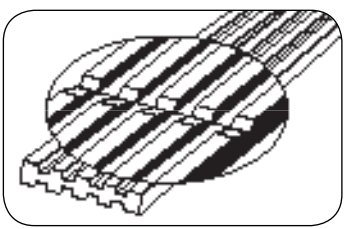
3.2 Adjustment Screw

Due to long transportation and long use, the screw may become loose. When counting is not accurate, turn the up/down screw clockwise to increase the friction.



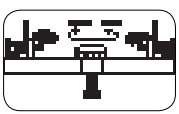
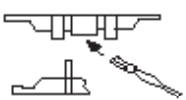
3.3 Changing The Wear And Tear Parts

When the rubber tongue is worn out, please flip it and use the other side.



3.4 Operational Problems

Note: When counting is not accurate, please check the following:

No power	Is the power cord securely connected?	Is the fuse is blown?	Is the power switch on?
The power is on, but unit is not working	Is the hopper sensor dirty? If so, please clean with a brush	Make sure the hopper sensor line is well connected to main board	The belt may be too loose or too tight, adjust the belt
Wrong counting	Turn the screw clockwise to increase the friction 	Clean counting sensor	Check the rubber tongue and if it's worn out, change to the other side or add a new one
Wrong detection	Adjust the MG sensor	The MG is dirty, please clean it 	UV sensor is broken or dirty, clean or replace with a new one

4. Specifications

Dimensions:	9.5" x 11.4" x 8.7"
Weight:	13.2 lbs
Counting Speed:	1,200 bills/min
Power consumption:	working ≤ 90W
Sleeping:	<3W
Power Source:	220V ± 10% 50 Hz 110V ± 10% 60Hz
Noise:	<60dB
Hopper Capacity:	200 bills
Ambient Temperature:	32° F - 104° F
Ambient Humidity:	60%h - 90%h
Counting Range:	1 - 999
Preset Range:	5 - 999
Banknote Size:	Length 4.33" - 7.48" Width 1.97" - 3.35" Thickness .003" - .005"

5.1. Cleaning the Machine

Warning: Before doing any cleaning, turn the power switch off and disconnect the power cord from the machine.

1. Cleaning the Optical Sensors
   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.

   This should be done every day. If necessary, the glass surfaces of the detectors may also be wiped with a soft cloth soaked with alcohol.

2. Cleaning the inside of the machine periodically
   It is necessary to clean the inside of the machine once a month. Unplug the machine and lift the top cover to gain access to the interior.

3. Additional Recommendations
   Avoid operating the machine in a dusty or dirty room. To guard the machine from the elements, always keep it protected with the supplied plastic cover (when not in use).

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

5.2 Maintenance Notice

1. The machine must be safely connected to the power source.
2. The machine must be kept in dry and ventilated place to avoid strong sunlight.
3. The machine must be kept far away from strong magnetic fields and the interference of Hertzian waves.
4. The effective power must be in the scope of 220V ± 10% or 110V± 10%, otherwise it will affect the machine's operation.
5. The fuse rating is 2A/250V, it cannot be increased or reduced.
6. 80% of all the operational problems may be caused by dust and dirt inside the machine, keep the machine clean at all times.

6. Warranty

STEELMASTER® provides a limited, three-year replacement warranty for this unit (4820).

This warranty is limited and conditional as the following:

- Three-years from the date of original purchase. Applies only to the original purchaser. All warranty claims must be accompained by the proof of purchase.
- Warranty is limited to defects in workmanship or material. It does not apply to damages in handling the product, general misuse, poor maintenance or shipping.
- Warranty liability does not extend or cover any loss, harm or damages from miscounts or failures in currency counting or counterfeit detection. Warranty does not guarantee the absolute accuracy of the unit in all environments and conditions.
- The warranty allows for the replacement of this or similar unit within the warranty period only and STEELMASTER® discretion.
- All warranty returns must be authorized in writing and proper approved forms included in the prepaid return package.
- All approved warranty returns need to be returned to:
  Block, Inc.; MMF Division
  1111 Wheeling Road
  Wheeling, Illinois 60090 USA

  Customer Service/Support
  800.323.8181