Model S-530
Coin Sorter / Value Counter
Operating Manual
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- In order to ensure the proper and safe use of this product, please read this Operating Manual before use and use the product accordingly.
- After reading this Manual, please keep it in a safe place.
Using the Product Safely

Please read this Operating Manual carefully before use and use the product accordingly. After reading this manual, please keep it in a safe place where its contents may be referred to at any time. If this manual should be lost or otherwise inaccessible, please contact our service center to obtain another copy. The safety warnings listed in this manual are safety guidelines that should always be followed in order to allow the safe use of the product and to prevent any damage that might possibly be caused by the product.

About the Warning Stickers and Points of Warning/Caution

As the warning stickers describe possible points of danger or injury when using this equipment, please always make note of them. Please do not remove or damage these stickers.

| Warning | This sign is used when there is assumed to be a possibility that improperly handling the product without heeding the content of the written instructions may lead to serious injury. |
| Caution | This sign is used when there is assumed to be a possibility that improperly handling the product without heeding the content of the written instructions may lead to minor injury. It is also used when there is assumed to be a possibility that material damage will arise. |
| Reference | This sign displays points of caution for operating the product. |

Examples of other graphic symbols:

- △ This sign denotes the presence of a warning (including caution).
  The example on the right signals general points of caution and warning.

- ○ This sign denotes prohibited acts.
  ○ The type of the prohibited act is shown in the sign.
  The example on the right shows that disassembly is prohibited.

- ● This sign denotes content that mandates or indicates certain actions when operating the product.
  ● The type of the mandatory or indicated action is shown in the sign.
  The example on the right shows that it is mandatory to remove the plug from the outlet.
<table>
<thead>
<tr>
<th>Warnings</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Prohibited</strong></td>
</tr>
<tr>
<td>• Use this product only in the environment listed in the specifications of the Operating Manual. If this product is used in an environment other than that specified, it may result in fire or electric shock.</td>
</tr>
<tr>
<td><strong>Disassembly Prohibited</strong></td>
</tr>
<tr>
<td>• Do not modify the component parts or attach altered parts to the product. Do not open up the product where there are no instructions listed in the Operating Manual for opening and closing that portion, and do not remove parts or covers that are fixed with screws. This may result in fire, electric shock, malfunction or injury.</td>
</tr>
<tr>
<td><strong>Remove Power Plug</strong></td>
</tr>
<tr>
<td>• If there is smoke or there are unusual smells or sounds, immediately remove the power plug from the outlet. Should the product continue to be used, it may short-circuit and lead to fire or electric shock. Please contact our Service Center.</td>
</tr>
<tr>
<td><strong>Mandatory</strong></td>
</tr>
<tr>
<td>• Do not use any power supply other than the accompanying AC adapter. It is a special type of AC adapter. The product may malfunction, and it may result in heat generation, smoke or fire.</td>
</tr>
<tr>
<td><strong>Mandatory</strong></td>
</tr>
<tr>
<td>• Never insert the power plug of the AC adapter into an outlet with a voltage other than 120VAC / 60Hz. If the product is used at a different voltage, it may short-circuit or result in heat generation, smoke or fire.</td>
</tr>
<tr>
<td><strong>Mandatory</strong></td>
</tr>
<tr>
<td>• Insert the power plug of the AC adapter completely into the outlet when using the product. If it is used when the plug is not fully inserted, it may short-circuit or result in heat generation, fire, or electric shock.</td>
</tr>
<tr>
<td><strong>Prohibited</strong></td>
</tr>
<tr>
<td>• Do not damage, disassemble, or repair the AC adapter. If the adapter is disassembled or modified, this may result in fire or electric shock.</td>
</tr>
<tr>
<td><strong>Prohibited</strong></td>
</tr>
<tr>
<td>• Do not pull on the AC adapter cord or place heavy objects on the cord. It may short-circuit, and there is a danger of fire or electric shock.</td>
</tr>
<tr>
<td><strong>Prohibited</strong></td>
</tr>
<tr>
<td>• When removing the AC adapter from the outlet, always hold the plug as you remove the adapter. There is a danger of damaging the plug and the outlet, and it may lead to fire or electric shock.</td>
</tr>
<tr>
<td><strong>Mandatory</strong></td>
</tr>
<tr>
<td>• Periodically inspect the power plug and cord of the AC adapter. If the power plug is broken or the cord is damaged, discontinue use of the product immediately and contact our Service Center. There is a danger of fire or electric shock.</td>
</tr>
<tr>
<td><strong>Prohibited</strong></td>
</tr>
<tr>
<td>• Do not use extension cords or plug multiple power cables into an outlet as this may result in a fire.</td>
</tr>
<tr>
<td><strong>Prohibited</strong></td>
</tr>
<tr>
<td>• Do not use wet hands to touch the product, AC adapter or power cord. There is a danger of electric shock.</td>
</tr>
<tr>
<td><strong>Prohibited</strong></td>
</tr>
<tr>
<td>• When cleaning the product, always turn the power switch off and unplug the AC adapter from the outlet or it may result in electric shock or injury.</td>
</tr>
<tr>
<td><strong>Mandatory</strong></td>
</tr>
<tr>
<td>• If the product will not be used for an extended period of time, unplug the AC adapter from the outlet for safety reasons. Dust may accumulate and it may result in heat generation or fire.</td>
</tr>
<tr>
<td><strong>Mandatory</strong></td>
</tr>
<tr>
<td>• Place the product out of the reach of small children so that they cannot touch the cables or product interior. There is a risk of injury.</td>
</tr>
<tr>
<td>Cautions</td>
</tr>
<tr>
<td>----------</td>
</tr>
<tr>
<td><strong>Prohibited</strong></td>
</tr>
<tr>
<td>Do not place this product in a location where the product or cord is likely to be damaged as this may result in fire, electric shock or product malfunction. Examples are: close to an open flame, humid or dusty locations, locations where shaking or strong vibrations are present, uneven surfaces, surfaces from which the product may fall, locations with direct sunlight, close to air conditioners or heaters, locations where the product may get wet, and locations where there is a strong magnetic field or static electricity.</td>
</tr>
<tr>
<td>Do not place or insert flammable objects around or inside the product. Heat may be generated by the product or the power source may ignite resulting in an explosion or fire.</td>
</tr>
<tr>
<td>If the product should be submerged in water, discontinue use immediately and call the Service Center. Request repairs and an inspection. If the product continues to be used, it may result in fire or electric shock.</td>
</tr>
<tr>
<td>Do not place the product in a location where the floor cannot withstand the weight of the product or on sloped or uneven surfaces where the product may not be stable. This may lead to mounting surface damage or injury if the product should suddenly slide or move.</td>
</tr>
<tr>
<td><strong>Mandatory</strong></td>
</tr>
<tr>
<td>When setting up or using the product, ensure that there is sufficient space for the various operations and mechanisms of the product. If you should come in contact with the product while operating it, there is a danger of injury.</td>
</tr>
<tr>
<td>When bagging coins using bagging attachments, ensure that the product is properly clamped to the mounting surface and that the coin bags are properly supported. Failure to do this could result in damage to the machine or injury.</td>
</tr>
<tr>
<td><strong>Caution</strong></td>
</tr>
<tr>
<td>Do not place anything on top of the product. The product may be scratched or damaged.</td>
</tr>
<tr>
<td>Please follow the instructions in the Operating Manual and on the labels attached to the product. If the product is operated incorrectly, there is a risk of injury.</td>
</tr>
<tr>
<td>Please ensure that small children do not play with or wear the plastic cover used when storing the product. There is a danger of suffocation.</td>
</tr>
</tbody>
</table>
### Names of the Machine Parts

Please follow the safety label instructions on the respective parts of the sorter when operating the machine.

### Accessories

Please confirm that all of the accessories are included:

- 1 AC Adapter DC24V 0.5A
- 1 Plastic Cover
- 1 Cleaning Brush
Control Panel Functions

- **POWER Switch**
  Turns power ON and OFF.

- **MOTOR Button**
  Starts and stops the sorting and counting operation.

- **CURRENT COUNT Button**
  Selects the CURRENT COUNT to be displayed or cleared.

- **GRAND TOTAL Button**
  Selects the GRAND TOTAL to be displayed or cleared.

- **BATCH LEVEL Button**
  Selects the BATCH LEVELS to be displayed or cleared.

- **BATCH LIMIT Button**
  Used for setting the BATCH LIMITS. All totals must be zero to set the BATCH LIMITS.

- **BATCH Button**
  Turns BATCH mode ON and OFF.

- **CLEAR Button**
  Clears the total being displayed (current count, grand total or batch level). If a single denomination is selected then only that denomination is cleared. If the TOTAL indicator is lit then all denominations are cleared. If the CLEAR button is pressed for four seconds then it will clear all machine totals (MASTER CLEAR). The CLEAR button must be pressed twice to clear.

- **AUTO CLR Button**
  Turns AUTO CLEAR mode on and off. When on, full denominations are cleared automatically (when changing bags or wrappers or emptying the drawer). Used in BATCH mode only.

- **PRINT Button**
  Prints a receipt containing the totals displayed (CURRENT COUNT, GRAND TOTAL or BATCH LEVEL).

- **STORE Button**
  Adds the current count to the grand total.

- **COIN SELECT Button**
  Selects the coin denomination to be displayed or cleared (or TOTAL), or for setting BATCH LIMITS.

- **UP Button**
  Used to increase the value of the selected digit when setting BATCH LIMITS or the date and time.

- **TAB Button**
  Used to select the digit position when setting BATCH LIMITS or the date and time.

- **DOLLAR VALUE / COUNT Switch**
  Switches the display between dollar value and coin count.

- **Counter Display (6 Digits)**
  Displays CURRENT COUNT, GRAND TOTAL or BATCH LEVELS as coin counts or dollar values. Also used when setting BATCH LIMITS and the date and time.

- **Denomination Indicators**
  These red LED lamps indicate which denomination is selected or TOTAL. Also indicates which denomination is full in BATCH mode.
### Preparations for Counting

1. When carrying the sorter, hold it firmly using the handles on both sides.
2. Place the sorter on a stable and flat surface.
3. If bagging coins using bagging attachments, clamp the sorter to the mounting surface using the optional machine stabilizer kit.
4. Confirm that the POWER switch on the control panel is turned OFF.
5. Plug the DC plug of the AC adapter into the sorter (on the left-hand side facing the machine) and connect the AC plug of the adapter into a household outlet (120VAC / 60 Hz). Use only the AC adapter included with the sorter.

<table>
<thead>
<tr>
<th>Caution</th>
</tr>
</thead>
<tbody>
<tr>
<td>● When carrying the sorter, hold it firmly using the handles on both sides. If it is dropped, it may result in injury and/or damage to the machine.</td>
</tr>
<tr>
<td>● Carefully set the sorter into place and avoid sudden impacts as this may lead to malfunction.</td>
</tr>
</tbody>
</table>

### Sorting and Counting Operation

1. Turn the POWER switch to ON.
2. Press the BATCH button to turn batch mode on if desired. Batching should be used when bagging or packaging a specific number of coins. If using the drawers included with the sorter, batch mode must be on to prevent the drawers from overfilling.
3. Open the hopper cover on the left side, check the red FILL LINE indicator in the hopper and place the coins to be sorted in the hopper.
   - Do not put coins in the hopper above the red FILL LINE.
   - If you have more coins than will fit in the hopper below the red FILL LINE, count them in batches.
4. After placing the coins in the hopper, always close the hopper cover and sorter cover.
   - For safety reasons, the sorter will not operate if either cover is left open.
5. Counting will begin when the MOTOR button is pressed.
   - For safety reasons, the sorter will stop if the hopper cover or sorter cover is opened during sorting. Sorting will resume when the cover is closed and the MOTOR switch is pressed.
6. When sorting is complete, the counted amount will be shown on the display. This is the CURRENT COUNT.
7. If the MOTOR button is pressed after confirming that there are no coins remaining in the hopper, the motor will stop.
   - If the MOTOR button is not pressed, the motor will automatically stop after approximately 10 seconds.
   - When sorting a new batch of coins successively, place the coins in the hopper and press the MOTOR switch again.

### Stopping the Motor During Counting

Counting will stop if the MOTOR button is pushed. To resume counting, press the MOTOR button again.

### Displaying Dollar Amounts or Coin Counts

- The displayed content on the counter display will change depending on whether the DOLLAR VALUE / COUNT switch is set to DOLLAR VALUE or COUNT.
  1. When set to DOLLAR VALUE - If the COIN SELECT button is pushed, the position of the coin indicator light will change and the dollar value of the indicated coin size will be displayed.
  2. When set to COUNT - If the COIN SELECT button is pushed, the position of the coin indicator light will change and the coin count of the indicated coin size will be displayed.

### Adding the CURRENT COUNT to the GRAND TOTAL

1. If the STORE button is pushed each time after counting is complete, the CURRENT COUNT will be added to the GRAND TOTAL.
   - The CURRENT COUNT display will be cleared at this time.
2. To display the GRAND TOTAL, press the GRAND TOTAL button. Use the DOLLAR VALUE / COUNT button to select the display mode.
   - Use the COIN SELECT button to display the GRAND TOTAL for a specific denomination.
**Setting the BATCH LIMITS**

When using batch mode, BATCH LIMITS must be set previously. All machine totals must be zero in order to set the BATCH LIMITS.

To set the BATCH LIMITS, press the BATCH LIMIT button so it is illuminated. Use the COIN SELECT button to select the coin denomination. Use the TAB button to select the digit on the display to be set and use the UP button to increase the digit value. When the desired limit is selected, press the STORE button to save the limit and the display will step to the next denomination.

Note: BATCH LIMITS may be set from 1 to 30,000.

Note: BATCH LIMITS must be set when using the drawers included with the sorter to prevent the drawers from overfilling. The BATCH LIMITS for drawers should be set as follows:

- Pennies: 150
- Nickels: 80
- Dimes: 250
- Quarters: 200
- Dollars: 80

**When a BATCH LIMIT is Reached**

When a BATCH LIMIT is reached during counting, the machine will stop automatically and the coin indicator lamp corresponding to the denomination which has reached its limit will be illuminated. The bag, package or drawer should be replaced or emptied at this time. If desired, the BATCH LEVEL can be cleared manually or use the AUTO CLEAR mode to clear the full BATCH LEVELS automatically.

**Displaying the BATCH LEVELS**

When the BATCH LEVEL button is pushed, the BATCH LEVELS will be displayed. Use the COIN SELECT button to display each denomination.

**Clearing Counts**

**CURRENT COUNT**
Press the CLEAR button while in CURRENT COUNT mode (the CURRENT COUNT button is illuminated).

**GRAND TOTAL**
Press the CLEAR button while in GRAND TOTAL mode (the GRAND TOTAL button is illuminated).

**BATCH LEVEL**
Press the CLEAR button while in BATCH LEVEL mode (the BATCH LEVEL button is illuminated).

- Note: After pressing the CLEAR button the control panel will flash and you must press the CLEAR button again in order to clear the selected count(s). If you do not wish to clear the selected count(s), press the CURRENT COUNT button while the control panel is flashing.

- Note: To clear all machine totals (MASTER CLEAR), press the CLEAR button for four seconds then a second time when the control panel flashes.

**Auto Clear Function**

When a BATCH LIMIT is reached (bag, package or drawer full) and the batch is removed (bag, package or drawer replaced or emptied) the BATCH LEVEL may be cleared manually or automatically. If the AUTO CLR button is pressed and illuminated, the machine will clear this total automatically after the BATCH LIMIT is reached and the sorter is restarted.

**Other Functions**

- **Auto Stop Function**
  1. When there is no change in the coin counts for three seconds while counting, the sorter will stop for one second and then restart again.
  2. This will be repeated three times and then the motor will stop if there is no change in the coin counts.

- **Cover Open Stop Function**
  1. When the hopper cover or sorter cover is open, the sorter will not move even when the MOTOR button is pressed. The cover open indication will appear on the display.
  2. If the hopper cover or sorter cover is opened during counting, the motor will stop and the cover open indication will appear. To restart operation, press the MOTOR button after closing the open cover.
### Error Indications

1. **Sensor Error**

   **Error Condition:** If one of the count sensors is pressed when the power is turned on, a Sensor Error will appear.

   **Resolution:** Clear any coins from the sorting rail and verify that the indicated sensor is clear and moves freely. For further assistance, contact Semacon Technical Support.

2. **Coin Jam Error**

   **Error Condition:** If one of the coin sensors is pressed for more than one second during counting, a Coin Jam Error will appear.

   **Resolution:** Clear any coins from the sorting rail and verify that the indicated sensor is clear and moves freely. For further assistance, contact Semacon Technical Support.

3. **Cover Open Error**

   **Error Condition:** If the hopper cover or sorter cover is opened during counting or if the MOTOR button is pressed when one of the covers is open, a Cover Open Error will appear. The motor will stop if the cover is opened during counting.

   **Resolution:** Close the opened cover door and press the MOTOR button to restart counting. For further assistance, contact Semacon Technical Support.

### Program Version Display

- To display the software version number, turn the machine off using the POWER switch, then turn it back on while pressing the UP button.
Cleaning Methods

● Cleaning the Main Body

Wipe with a soft, dry cloth. If grime or dirt is severe, wet the cloth with water or mild detergent, wring out excess water, and wipe.

Caution
- Do not pour water or detergent directly on the machine as this may result in malfunction.
- Do not use solvents such as benzene or alcohol as they may cause warping, discoloration, or malfunction of the machine

● Cleaning the Coin Passageway

Although the coin passageway is kept clean with the auto rail cleaning mechanism, there still may be grime which clings to the passageway. Please refer to the next section for cleaning methods.

Warning
- Always unplug the AC adapter from the outlet when cleaning as there is a danger of electric shock.
- Do not touch the hopper or counter parts with your fingers as this may result in injury.

Caution
- Do not use oil-based detergents on the coin passageway as this may lead to malfunction.

When the machine is not in use, close the hopper cover and counter cover, and cover the machine with the included plastic dust cover.

Caution
- Do not allow small children to play with or wear the plastic dust cover.
1. Use the included brush to remove debris from the rails, backrest, and hopper and rail seams. For grime that clings to the passageway, use a cotton swab lightly moistened with mild detergent and rub off.

2. Always wipe the parts that were rubbed with the moist cotton swab again with a dry cotton swab.

3. When finished, check to ensure that there is no cotton residue from the cotton swabs.

<table>
<thead>
<tr>
<th>Specification</th>
<th>Model S-530</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coin Types</td>
<td>U.S. Coins (1¢, 5¢, 10¢, 25¢, $1)</td>
</tr>
<tr>
<td>Counting Speed</td>
<td>Approx. 450 coins / minute</td>
</tr>
<tr>
<td>Hopper Capacity</td>
<td>Approx. 500 coins</td>
</tr>
<tr>
<td>Coin Drawer Capacity</td>
<td>1¢: approx. 150 coins, 5¢: approx. 80 coins, 10¢: approx. 250 coins, 25¢: approx. 200 coins, $1: approx. 80 coins</td>
</tr>
<tr>
<td>Sorting Mechanism</td>
<td>Motor driven chain mechanism</td>
</tr>
<tr>
<td>Control Panel Switches</td>
<td>POWER switch, MOTOR button, CURRENT COUNT button, GRAND TOTAL button, BATCH LEVEL button, BATCH LIMIT button, BATCH button, CLEAR button, AUTO CLR button, PRINT button, STORE button, COIN SELECT button, UP button, TAB button, DOLLAR VALUE / COUNT switch</td>
</tr>
<tr>
<td>Display Functions</td>
<td>CURRENT COUNT, GRAND TOTAL and BATCH LEVELS in either coin count or dollar value mode, BATCH LIMITS</td>
</tr>
<tr>
<td>Print Functions</td>
<td>CURRENT COUNT, GRAND TOTAL and BATCH LEVELS showing all denominations in both coin count and dollar value with total at bottom, date and time</td>
</tr>
<tr>
<td>Other Functions</td>
<td>BATCH function (each denomination from 1 to 30,000), auto stop function (bag, package or drawer full), auto clear function (bag, package or drawer full), bagging and packaging options, auto rail cleaning function, cover open stop function, power-fail memory retention</td>
</tr>
<tr>
<td>Outer Dimensions</td>
<td>17.75” (W) x 8.25” (D) x 10” (H) (excluding mounting hardware/accessories)</td>
</tr>
<tr>
<td>Weight</td>
<td>13.75 lbs / 6.2 kg (excluding mounting hardware/accessories)</td>
</tr>
<tr>
<td>Power Supply</td>
<td>Input: 120VAC / 60Hz</td>
</tr>
<tr>
<td></td>
<td>Output: 24VDC @ 500mA</td>
</tr>
<tr>
<td>Environment for Use</td>
<td>Indoor use only, temperature 40-95 degrees F, humidity below 80%, no condensation</td>
</tr>
</tbody>
</table>
The contents of this Operating Manual are subject to change without notice. All questions or concerns relating to the use of this product or the contents of this Operating Manual should be addressed to the following:

Semacon Business Machines, Inc.
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Tel: 858-638-0100
Fax: 858-638-0110

www.semacon.com