



User Guide

AB610

Enterprise Heavy Duty
Universal Coin Counter



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**Thank you for trusting *AccuBANKER*
with your cash handling needs.**

**In order to optimize the performance of your
equipment, we encourage you to thoroughly read
this user guide prior to use.**

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Introduction

The AB610 is a Universal Coin Counter that allows the user to count, manually sort, bag, and package most international coins. The coin sorting mechanism is completely adjustable by the user to suit their daily needs. This equipment was designed with a heavy-duty mechanical component; to meet the requirements demanded by users that count high volumes of coins such as banks, cash collection centers, vending machine owners, etc.

The machine can be used for the following tasks:

- Counting large amount of coins
- Bagging coins
- Rolling coins (Accessories not included)
- Sorting coins (*using the procedure described in section 5.2*)

Safety Instructions

Warning



Do not use this product in areas where it may be exposed to water or other liquids.



Unplug this product from the electric outlet before cleaning. Do not use liquid or aerosol cleaners. To clean, use a damp cloth.



To reduce the risk of electric shock, do not disassemble this product. Take it to qualified service personnel when service or repair work is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the appliance is subsequently used.



Only use the cable provided with the unit. The use of other cables may result in electric shock, fire, or cause serious damage to the unit.



Do not operate the unit in areas with high temperature or high humidity since it may prevent it from working correctly.

Safety Instructions (cont.)

Caution

When unplugging the power cord, do not pull it by the cord, but rather grip the plug to pull it out. Not following these instructions may result in electric shock, fire, or damage to the unit.

Do not use the unit if the power cord is damaged or if the plug socket contact is loose. Not following these instructions may result in electric shock, fire, or other hazards.

Do not place heavy objects over the cord and do not bend it excessively since it could get damaged. Not following these instructions may result in electric shock, fire, or other hazards.

When not using the unit for a long time, remove the power plug from the electric outlet.

Safety Instructions (cont.)

- Read and understand all of the safety instructions.
- Follow all warnings and instructions marked on the unit.
- This product is meant to be operated in an indoor environment with proper ventilation.
- Do not place near direct sunlight, heat sources, or air conditioners.
- This product should only be operated with the power cord supplied and the type of power source indicated in this user guide. If you are not sure of the type of power supply in your location, consult your vendor or local power company.
- To avoid the risk of fire or electric shock, never push objects into the unit through the case slots or openings, since they may touch dangerous voltage points or shortcut parts. Do not disassemble the unit.
- Never spill liquids of any kind on the product.

Safety Instructions (cont.)

- Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - When the power supply cord or plug is damaged or frayed*
 - If liquid has been spilled into the unit, or it has been exposed to rain or water*
 - If the product has been dropped or the case has been damaged*
 - If the product shows a noticeable change in performance

**Not covered under warranty*

NOTE: Do not remove the "ground" prong from the power cord. It is a safety feature meant to protect the user from harm and the equipment from damage.

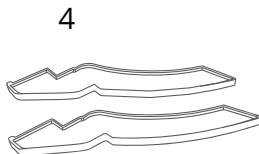
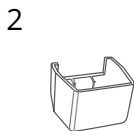
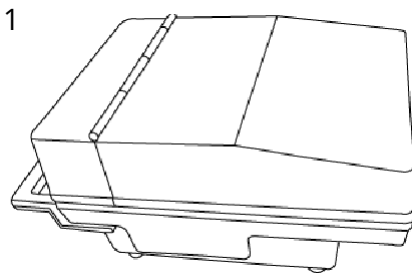


If the unit does not operate normally while following the instructions, adjust only those controls covered by the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.

1. Box Contents

When opening the box, verify that all the items described below are included.

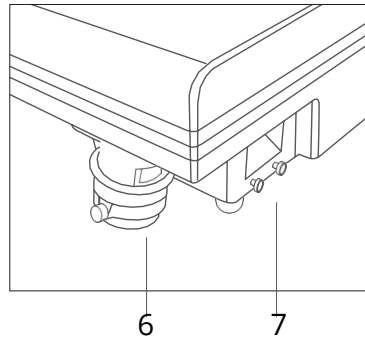
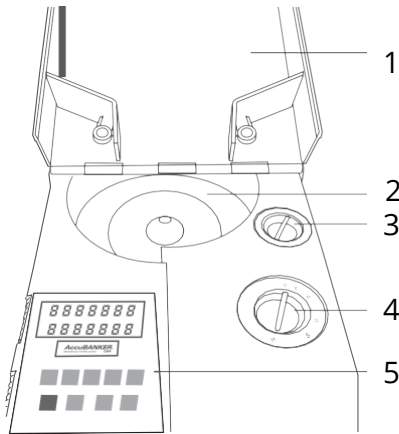
1. AB610 coin counter
2. Lateral rejecting tray
3. Lateral rejecting tube (bag holder)
4. Hopper holders (2 pcs)
5. Power cord and Printing Materials



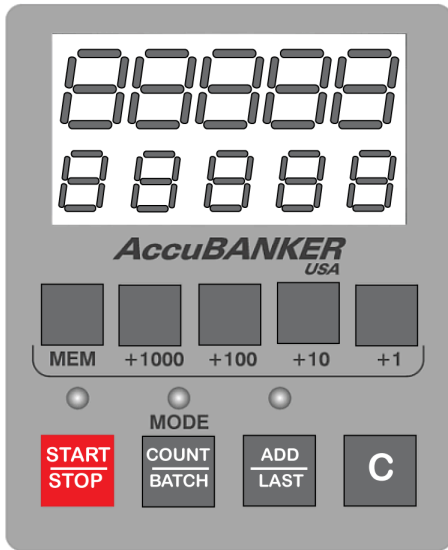
2. Part Description

Main Parts and Components

1. Cover / External Hopper Tray
2. Internal Hopper
3. Thickness Adjustment Knob
4. Diameter Adjustment Knob
5. Control Panel / Display
6. Coin Exit tube
7. Lateral Rejecting Tray / Tube holder



3. Control Panel Description



START / STOP

Used to resume or stop the counting operation.

COUNT / BATCH

Used to select the specific operating mode, either 1. COUNT or 2. BATCH.

1. **COUNT mode** (green LED on)

The equipment counts all the coins deposited into the hopper continuously until the hopper is empty.

When new coins are placed into the hopper again and the counting operation is resumed, the previous result is deleted from the screen.

3. Control Panel Description (cont.)

2. **BATCH mode** (green LED off, "P" appears on the screen)

The user must press the BATCH button and set the desired number before beginning the count. The equipment will stop every time the specific batch quantity is reached. The top portion of the screen will show the number of coins counted, and the bottom portion will show the batch quantity set up by the operator. "P" will blink every time the batch is reached. The counting operation will resume by pressing START.

Batch Keys +1000 / +100 / +10 / +1

These keys are used to set up the desired Batch quantity. Tapping the specific key will add up that specific quantity to the Batch. For example, if the operator needs to set up a batch of 2,525 coins, he/she must proceed as follows:

- Tap the key "+1000" twice, the display will show 2000
- Tap the key "+100" five times, the display will show 2500
- Tap the key "+10" two times, the display will show 2520
- Tap the key "+1" five times, the display will finally show 2525

To clear the batch and go back to zero, simply tap every digit to reach zero or set up a new Batch value.

3. Control Panel Description (cont.)

ADD / LAST:

ADD function is active when the green LED is on. In this mode, the equipment will add up every consecutive count to show the grand total. The total result is shown on the top portion of the screen. This applies to both COUNT and BATCH operational modes.

The **LAST** count carried out during the adding operation can be verified by maintaining the "MEM" key pressed down with the LAST function active (green LED on).

C key

Press the "+1" key while holding down the "C" key to clear to zero the counting information.

3. Control Panel Description (cont.)

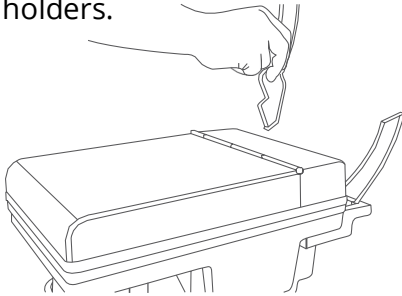
MEM: Used to retrieve two types of data from the unit's memory:

1. LAST count during the ADD operation (tapping MEM with the ADD active).
2. Total coins counted since the last time the unit was powered on.

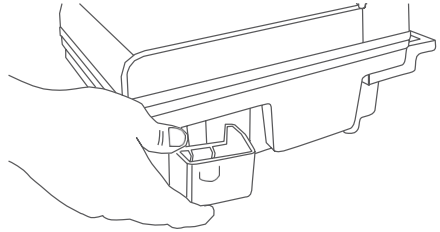
The "ADD/LAST" LED indicator must be off. Press the MEM key to show the information on the top portion of the screen. The display will show "**A xxx**" where "xxx" will be the total quantity of coins counted up to that point by the equipment.

4. Setting Up Your Equipment

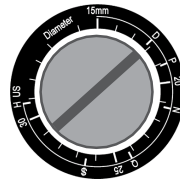
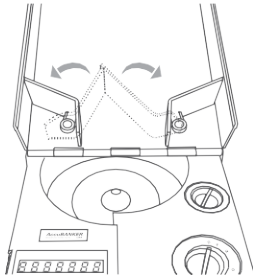
1. Place the hopper tray holders.



2. Place the Lateral Rejecting Tray or tube.



3. Open the upper cover and coin guiders and turn the unit ON.



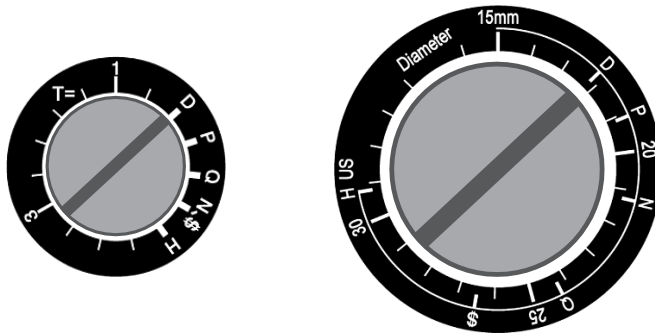
4. Adjust the Thickness and Diameter knobs for the specific coin denomination to be counted.

Deposit the coins into the hopper and begin the count.

4. Setting Up Your Equipment (cont.)

Thickness and Diameter coin selectors

Before beginning with the counting operation, the user must set up the specific thickness and diameter for the coin denomination to be counted.



4. Setting Up Your Equipment (cont.)

Adjust the Thickness and the Diameter knobs based on the following information:

- a. The circular labels show the specific positions for USD coins (D - dimes / P - pennies / N - nickels / Q - quarters / H - half dollar / \$ - \$1 coin).
- b. The labels also include marks in millimeters (1 mm steps) as reference for any other international coin size or tokens.
- c. Coins with smaller sizes than the one set up will be rejected.
- d. Avoid coins with larger sizes than the one set up; they could jam the machine.

5. Operation

5.1 Basic Counting Operation

In this mode, the coins must be presorted by denomination before depositing them into the Hopper Tray. Using the DIAMETER and THICKNESS selectors the user must select the appropriate size of the coin. Smaller coins will be deposited in the Lateral Rejecting Tray, and larger coins will remain in the Hopper Tray.

1. After installing the hopper tray holders (they will prevent damage to the tray due to the weight of the coins), connect the unit to the electric outlet and turn it on using the power switch.
2. Adjust both the Diameter and Thickness knobs to the exact setting according to the size of the coin denomination to be counted.
3. Ensure the lateral rejecting tray/tube, as well as the bag to collect the coins, are properly in position.
4. Pour the coins into the internal hopper. Do not exceed capacity. Use the external hopper tray if necessary.
5. Press the START/STOP to begin the count.
6. The equipment will stop either when the preset batch amount is reached or by pressing START / STOP again.

5. Operation (cont.)

5.2 Sorting / Counting

The AB610 allows you to count mixed coins of different denominations (different sizes).

This operating mode must be carried out by sorting the largest diameter coins first and separating the smaller diameter coins into a bag. Once done, the user must adjust now the next largest diameter, then pour rejected coins back into the hopper.

Repeat this process until all coin denominations have been sorted.

5. Operation (cont.)

5.2 Sorting / Counting (cont.)

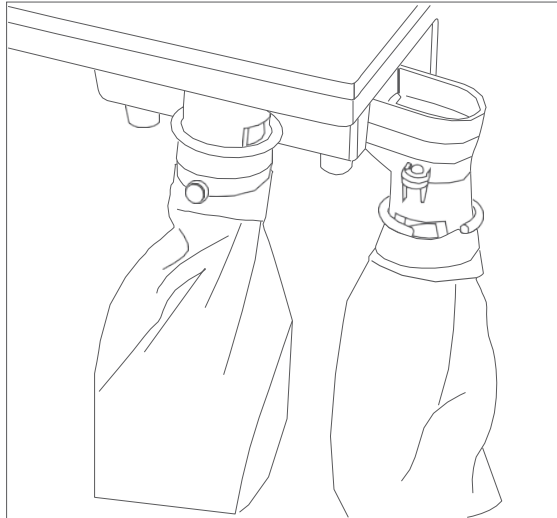
1. Ensure the lateral rejection tube and collecting bag are in place.
2. Adjust the Diameter and Thickness knobs according to the largest coin present in the bulk. The sorting procedure must start with the largest coin size and finish with the smallest coin size.
3. Pour the coins you need to count into the internal hopper. Do not exceed the capacity. Use the external hopper if necessary.
4. Press the START / STOP key to begin counting.
5. The largest coin will be sorted at the end of the first cycle. Readjust the Diameter and Thickness knobs for the next coin size (largest size first).
6. Repeat the process until reaching the smallest size coin.
7. The equipment will stop either when the preset batch amount is reached or by pressing the START / STOP key again.

5. Operation (cont.)

5.2 Sorting / Counting (cont.)

US coins must be sorted in the following order:

- Half dollar coins
- One-dollar coins
- Quarters
- Nickels
- Pennies
- Dimes



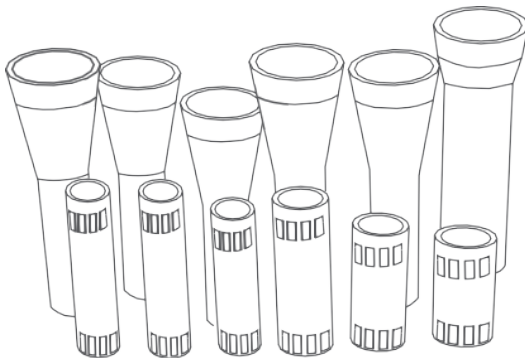
5. Operation (cont.)

5.3 Packaging

(with packaging tubes accessories, NOT INCLUDED)

Coins can be packaged directly into coin wrappers following these instructions:

1. Choose the coin wrapper and plastic packaging tube according to the coin denomination to be counted.
2. Insert the coin wrapper into the packaging tube and place both beneath the unit's coin exit.
3. Set up the batching number according to the coin's denomination to count.
4. Start the count.



6. Jamming

Facing a jamming event

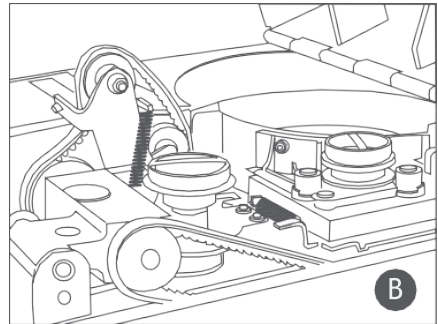
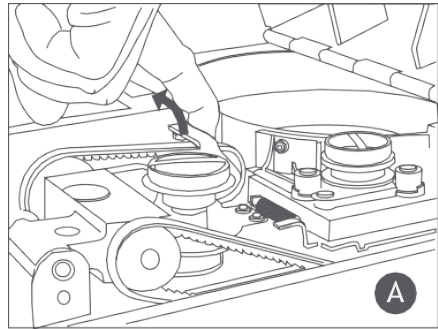
To ensure that the equipment operates with optimal performance as well as to prevent jamming, avoid the following:

- Counting bent or damaged coins or tokens
- Counting any type of foreign object like clips, staples, paper, nylon, rubber bands, etc.

If any jamming occurs, the equipment will stop counting and will move the turning plate in reverse to remove the coin or object jammed inside the mechanism. If the equipment was not able to remove the jammed object by itself, proceed as follows.

6. Jamming (cont.)

1. Carefully take out the adjustment knob cover
2. Pull up the conveyor belt mechanism as shown in Figures A and B
3. Inspect the coin's track and remove the jammed object
4. Return the conveyor belt mechanism to its proper position
5. Replace the adjustment knob cover



7. Routine Maintenance

To ensure an accurate and smooth count, and to extend the life of the unit, the following routine maintenance is recommended:

1. Turn the power switch OFF when the last count has been completed.
2. Clean the coin track and counting sensor surface. Remove the metallic debris that may be deposited during the counting operation. (Use an air duster).
3. If the equipment shows a noticeable change in performance, or you are experiencing technical problems, please contact your local dealer for technical support.

8. Error Codes Description

ERROR	CAUSE	SOLUTION
Eb0	Coins are jammed near the counting sensor.	Remove adjustment knob cover and remove jammed coins. Replace the cover and press "C" to clear the error message and continue the count.
Ec0 (Stop Status)	Coin passed through the sensor and was not counted.	Press "C" to clear the error message and continue the count.
E04 (Security Switch Open)	Adjustment knob cover is not correctly closed.	Remove and replace the cover properly.

9. Specifications

Temperature	32° - 104°F (0° - 40°C)
Humidity	25% - 80%
Display	LED
Sorting Type	Manual
Available Currency	Universal incl. tokens
Counting Speed (based on dimes)	2,000 coins / minute
Hopper Capacity (based on dimes)	4,000 total
Hopper Capacity (based on 50¢ USD)	350 total
Power Source (INPUT)	110 VAC / 60 Hz or 220 VAC / 50 Hz
Power Consumption	60 Watts Max.
Accepted Coin Diameter	14 - 34 mm (0.55 - 1.34 in)
Accepted Coin Thickness	1.0 - 3.4 mm (0.039 - 0.134 in)
Product Dimensions (L x W x H)	Open: 20.5 x 8.7 x 11 in (52 x 22.2 x 28 cm) Closed: 15 x 8.7 x 7.1 in (38 x 22.2 x 18 cm)
Product Weight	16 lb (7.1 kg)



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