



**OPERATION MANUAL**

**CC-401**

**HIGH-SPEED  
COIN COUNTER**

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**WARRANTY**

*The CC401 High-Speed Coin Counter is under warranty for a period of 6 months from the original date of purchase.*

**Covered:**

- Defects in workmanship or materials

**Not Covered:**

- Damage caused by physical abuse
- Misapplication
- Vandalism
- End user's attempt to repair on own
- End user's failure to follow recommended care and maintenance procedures

## GENERAL INFORMATION

The CC401 coin counter is a heavy duty, high-speed coin counting machine. Before using the CC401, please take a moment to read carefully and understand this manual. This document will explain the proper operation, maintenance, and troubleshooting procedures for the machine.

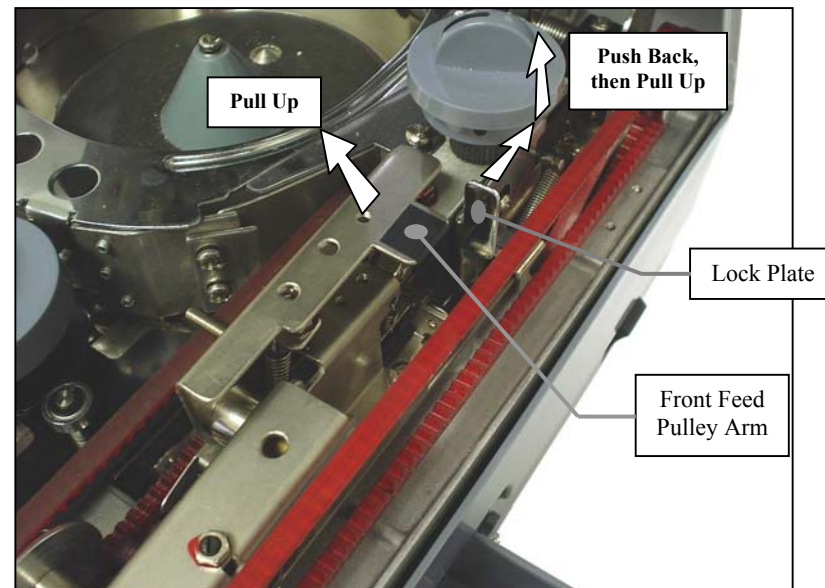
Should you have any questions, please contact your local distributor, sales representative, or American Changer for further assistance.

*Please keep this manual readily available for future reference.*

## PRODUCT DESCRIPTION



- |                      |                                |
|----------------------|--------------------------------|
| 1. Hopper Extension  | 8. Coin Bag Hold Ring          |
| 2. Hopper            | 9. Coin Tube Fixing Screw      |
| 3. Thickness Knob    | 10. Coin Bag & Tube Attachment |
| 4. Side Cover        | 11. Top Cover Open Lever       |
| 5. Power Switch      | 12. Top Cover                  |
| 6. Bottom Cover      | 13. Operation Panel            |
| 7. Rejected Coin Box | 14. Diameter Knob              |



*CC401 Interior Mechanics*

## ROUTINE MAINTENANCE

**Caution!** Be certain to turn the main power OFF before attempting any of the routine maintenance procedures.

- Clean the coin runway at least once a day using the brush supplied.
- Inspect the feed belt to see if it is dirty or worn. If it is dirty, clean it using a soft cloth saturated with denatured alcohol. If it is worn, replace it with a new belt.
- If the machine requires service or additional repair parts, please contact your local distributor, sales representative, or American Changer.

## ACCESSORIES

Brush	1 piece
Fuse (packed in fuse box of Power Socket)	1 piece
Hopper Extension	1 piece
Blank Coin Diameter Label	1 piece
Black Coin Thickness Label	1 piece
Rejected Coin Bag Attachment	1 piece

- D. When the value is as you would like it, press the MEM key to save the amended quantity into memory; the previous default batch quantity will be replaced.
- E. Turn the power OFF, and then ON again, and verify that the default batch quantities have been modified and saved correctly.
- 5) Affix a coin bag or a coin tube to the Coin Outlet Tube. Install the Coin Reject Box on the side of the machine.
  - 6) Put the coins into the Hopper and press the START/STOP key to begin the counting. The machine will stop either when the count total reaches the batch quantity, or after the machine has counted all of the coins in the Hopper.
  - 7) If you would like to stop the counting before all of the coins in the hopper have been counted, press the START/STOP key. When the key is pressed the next time, the machine will restart. The previous count total will be retained, and the resumed count will be added to it.
  - 8) If you have a large quantity of coins to be counted, install the Extended Hopper (supplied).
  - 9) When counting has completed, press the CLR key to clear the display. The count display will reset to “0” if not in Accumulation Mode. If in Accumulation Mode, pressing the CLR key once will bring up the previous count total, and pressing it a second time will reset the display to “0”.
  - 10) When counting is complete, press the MEM key to store the count total in memory. The count will be saved in memory, and the display will be cleared to zero. Press and hold this key for five seconds to display the count total stored in memory and clear the memory.

## **TROUBLESHOOTING**

*\*Refer to the figure on the following page, CC401 Interior Mechanism*

### **Coin Runway Jamming:**

When coins get jammed in the coin runway of the machine, rotate the Diameter Knob counter-clockwise to release the left guide plate. The jammed coin(s) will fall into the Rejected Coin Box, and the Diameter Knob may be readjusted again.

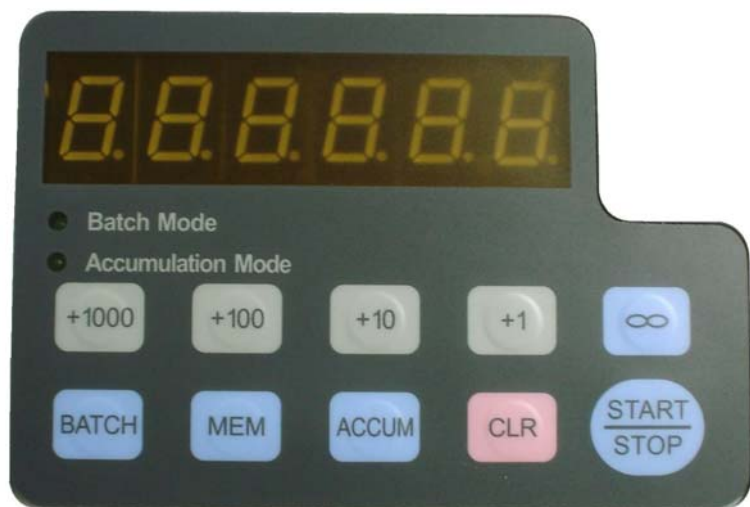
### **Centrifugal Disc Jamming:**

If foreign objects are mixed with coins in the Hopper, jamming may occur between the Centrifugal Disc and the Coin Guide Plate. When a jam occurs, remove all of the coins in the Hopper, and open the Top Cover by pulling the Top Cover Open Lever towards you. Then, pull up the Front Feed Pulley Arm and push backwards then pull upwards the Lock Plate to remove the foreign objects. Close the Top Cover.

## **TECHNICAL SPECIFICATIONS**

Counting Speed:	2300 Coins per minute <i>(for coins with a diameter of 15 mm or 0.5906 inches)</i>
Hopper Capacity:	<ul style="list-style-type: none"> <li>▪ 4000 Pcs. – without the hopper extension installed <i>(for coins with a diameter of 15 mm or 0.5906 inches and a thickness of 1.1 mm or 0.0433 inches)</i></li> <li>▪ 9000 Pcs. – with the hopper extension installed <i>(for coins with a diameter of 15 mm or 0.5906 inches and a thickness of 1.1 mm or 0.0433 inches)</i></li> </ul>
Countable Coin Size:	<ul style="list-style-type: none"> <li>▪ Thickness – 0.7 to 3.9 mm <i>(0.0276 to 0.154 inches)</i></li> <li>▪ Diameter – 14 to 34 mm <i>(0.551 to 1.339 inches)</i></li> </ul>
Display:	Six-Digit LED: 999999
Counting Modes:	<ul style="list-style-type: none"> <li>▪ Continuous Counting Mode</li> <li>▪ Batch Counting Mode <i>(default batch quantities are 20, 25, 40, 50, 1000, 2000, 2500, 4000, 5000, and 10000)</i></li> <li>▪ Accumulation Counting Mode</li> </ul>
Power Consumption:	70 W <i>(during operation)</i>
Power Requirements:	AC 120V +/- 10%, 60 Hz or AC 220V +/- 10%, 50 Hz
Storage Temperature:	-30° C to +80° C <i>(-22° F to +176° F)</i>
Operation Temperature:	0° C to +40° C <i>(+32° F to +104° F)</i>
Dimensions:	<ul style="list-style-type: none"> <li>▪ 270 <i>(width)</i> x 362 <i>(depth)</i> x 235 <i>(height)</i> mm</li> <li>▪ 10.63 <i>(width)</i> x 14.25 <i>(depth)</i> x 9.25 <i>(height)</i> inches</li> </ul>
Box Size:	535 x 330 x 260 mm or 21.1 x 13 x 10.24 inches
Weight:	Net: 11 kg or 24.2 lbs., Gross: 13.8 kg or 30.4 lbs.

## KEYPAD FUNCTIONS



- +1** : Press this key to increase the batch number by one.
- +10** : Press this key to increase the batch number by ten.
- +100** : Press this key to increase the batch number by one hundred.
- +1000** : Press this key to increase the batch number by one thousand.
- ∞** : Press this key to enter into Continuous Counting Mode.
- BATCH** : Press this key to select the batch number.
- MEM** : Press this key to add the current count number into memory.  
Press and hold this key for five seconds to display the number saved in memory and clear the memory.
- ACCUM** : Press this key to turn the Accumulation Mode ON and OFF. In the Accumulation Counting mode, the “Accumulation Mode” LED will be lit.
- CLR** : Press this key to clear the current count.
- START/STOP** : Press this key to start the machine counting. Press this key during counting to stop the machine counting.

## OPERATING PROCEDURES

- Before putting the coins into the Hopper, please remove any paper scraps, lint, rubber bands, etc. that may be mixed in with the coins. Foreign objects may cause jamming or faulty counting.
  - Do not open the Top Cover when coins are in the Hopper.
  - When using a bag to collect coins, please place the bottom of the coin bag on the floor, or on a stand, to prevent the machine from tipping over.
- 1) Set the Coin Diameter Adjustment Knob to the desired coin diameter, and the Coin Thickness Adjustment Knob to the desired coin thickness according to the denomination.

Coin	Diameter	Thickness
Dime (D)	0.705 in. (17.91 mm)	0.053 in. (1.35 mm)
Penny (P)	0.750 in. (19.05 mm)	0.061 in. (1.55 mm)
Nickel (N)	0.835 in. (21.21 mm)	0.077 in. (1.95 mm)
Quarter (Q)	0.955 in. (24.26 mm)	0.069 in. (1.75 mm)
Dollar (\$)	1.043 in. (26.50 mm)	0.079 in. (2.00 mm)
Half-Dollar (H)	1.205 in. (30.61 mm)	0.085 in. (2.15 mm)

- 2) When counting tokens, the Adjustment Knobs should be reset according to their specific dimensions. Use the above US coin dimension table as a guide to help locate the correct Diameter and Thickness Knob positions. *NOTE: Since measurements in-between the US coin positions are not marked, please perform trial and error qualification testing, making incremental knob adjustments, until the tokens are counted accurately. The Diameter should be set to large enough so that the coins do not jam, but small enough so that the coins do not fall down the rejection chute. The Thickness should be set to large enough for laid-flat coins to easily pass under the shield, but small enough so that only one coin can pass under at a time.*
- 3) Turn ON the power switch; the display will show “0”. Initially, the machine will be in Continuous Count Mode, ready to start counting.
- 4) Set the Counting Mode. Press the ACCUM key to activate or deactivate the Accumulation Counting Mode. In the Accumulation Counting Mode, the “Accumulation Mode” LED will be ON, and the count for the current batch of coins will be accumulated, or added to the previous total. Press the BATCH key to select a batch quantity for Batch Counting Mode. The “Batch Mode” LED will be turned ON. The default batch quantities are: 20, 25, 40, 50, 1000, 2000, 2500, 4000, 5000, and 10000, but by pressing the +1000, +100, +10, or +1 keys, you can adjust the batch quantity to any desired number. The following steps describe how to modify the default batch quantities:
  - A. With the power OFF, hold down both the BATCH and MEM keys at the same, and then turn ON the power. The machine will enter the Batch Programming Mode, and the display will show “batSet”.
  - B. Use the BATCH key to select the saved default batch quantity that you would like to change.
  - C. Adjust the selected default batch quantity by pressing the +1000, +100, +10, and +1 keys.