OPERATIONS MANUAL
SERIES AC300

American Changer Corp
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Specifications
Operating voltage 120 VAC +10/-15 %
Power consumption (controller only, add hopper and validator) 10w
Operating temperature 32 - 130 degrees Fahrenheit
Interface to Hoppers 24vdc & 12vdc 1.5 amps max.
Interface to Validators 120vac .5 amps max.

Warranty
The JCM Bill Validator is warranted for one year from date of purchase.

COVERED
¥ Defect in workmanship or material.

NOT COVERED
¥ Damage caused by physical abuse.
¥ Misapplication.
¥ Vandalism.
¥ End users attempt, on his own to repair item.
¥ Cleaning maintenance.

It is the End User’s responsibility to clean & maintain all their parts. Any unit coming in for repair requiring only a cleaning will be charged a flat rate of $65.00 plus shipping and handling.

Dispensing System and Logic Board
The dispenser and logic board is warranted for 6-months from date of purchase.

COVERED
¥ Defects caused by material or workmanship.

NOT COVERED
¥ Damage caused by physical abuse.
¥ Misapplication.
¥ Vandalism.
¥ End Users attempt, on his own to repair.

A Return material authorization number (RMA#) must be obtained before returning a unit for repair. A copy of invoices must accompany any and all warrantee work.
**UNCRATING AND SETUP OF THE AC300-B CHANGER**

Remove the Mini changer from the shipping box. Open the door (the keys will be in the manila envelope with this manual) and inspect closely for any shipping damage. Pull forward on the coin dispensing unit (The part with the clear vertical tubes) and set it on the door. Extend the Power cord through the inside, back of the cabinet and plug it into a grounded 120vac outlet only! On the back of the cabinet will be a board with a on/off switch on the bottom left-hand corner. The switch has a “I” and “O” on it. The “I” pushed down turns the AC300-B “ON”.

With power applied, the green LED light steady and the green LED’s on the front of the validator (bill acceptor) will be flashing until change is filled into the hopper.

**NOTE:** There is no way to make a duplicate key to the changer and every one of our keys is keyed differently. If you need a duplicate key made, we suggest a local locksmith or lock company.

**FILLING THE DISPENSER**

There are two ways the hopper can be filled. If you fill the front three large tubes with quarters and leave the back two dime tubes empty your pay-out will be 4 quarters. You can also fill the large front right tube with nickels, the other three large tubes with quarters and the back two small tubes with dimes. This will give you a pay-out of 3 quarters, two dimes and a nickel.

**WARRANTY INFORMATION**

THE AC300-B is cover under a one year warranty for the following components.

1. Cabinet and optional Base and Header kit.
2. All wire harnesses.
4. Power supply board.

The Mini dispenser is covered by a 6 month warranty only to include all components found inside and part of the Mini Dispenser. Vandalism and the end user’s attempt at repair is not covered under warranty. Also not covered is normal cleaning and maintenance associated with dirt or dusty environments. Any unit returned due to these circumstances will be charged a $35.00 cleaning fee. (See page 2 for cleaning and maintenance procedures.)

American Changer will only pay for normal ground shipping 30 days after the sale of the changer. We will not pay for the shipping of the bad component back to us after 30 days. All advanced replacements require collateral before the shipment of the new part. Collateral can be either a major Credit Card number or the approval of your distributor.

**USING BANK ROLLED OR MACHINE SORTED COINS EXTENDS THE LIFE OF THE ALUMINUM PLATE!!!**

FOR TECHNICAL INFORMATION, RETURN A PART FOR REPAIR, OR ORDER A PART, CALL TOLL FREE 1-888-741-9840

**ALL REPAIR RETURNS OR ADVANCE REPLACEMENT RETURNS MUST HAVE A RETURN AUTHORIZATION NUMBER OR THE PACKAGE WILL BE REFUSED!**
CLEARING A BILL JAM / CLEANING THE
JCM DBV-10 VALIDATOR

1. Open the changer door.
2. On either side of the bill validator, loosen the
two thumb screws until the top of the DBV-10 flips open.
3. If you are servicing a bill jam remove the stuck
bill, ensuring that you find any bill pieces that may have
ripped off of the jammed bill.
4. If you are just performing cleaning maintenance,
then clean the three bottom and three top sensors
with a cotton swab and a mixture of 50% Isopropyl
alcohol and 50% water. Also wipe off the Magnetic
Head on the top of the validator (It looks like a
cassette player head) with the same swab.
5. Re-assemble the validator

NOTE: If you perform these functions with power
applied to the AC300-B, you will notice the two
back sensors are lit red and the front one is out.
THIS IS NORMAL.

4. Setting the DIP switches

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Pulse space

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Setting the Pulse space

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WARNING: BEFORE DRILLING HOLES
INTO A WALL OR ANOTHER MACHINE
MAKE SURE THAT THERE ARE NOT ANY
CABLES, WIRE HARNESS, WIRES,
PLUMBING, OR ANY VITAL OR
DANGEROUS SYSTEMS IN THE AREA
YOU ARE ABOUT TO DRILL.
AMERICAN CHANGER CANNOT BE
HELD ACCOUNTABLE FOR AND
DAMAGE, INJURY, OR LOSS OF LIFE
DUE TO THE INSTALLATION OF THIS
CHANGER. IF YOU HAVE ANY DOUBT
ABOUT YOUR ABILITY TO CONTINUE
WE SUGGEST YOU SEEK A LOCAL
PROFESSIONAL TO FINISH THIS
PROCEDURE.

Drill the 4 marked holes. Attach the changer using
at least 3 bolts 1/4" in size. (not included) If you are
mounting the changer to a wall, you will need a
stud finder and at least 2 lag bolts 2" in length
(not included) to hold the 27 pound changer
securely.

SECURING THE BASE AND / OR HEADER
KIT TO THE AC300-B

1. Remove the Coin Dispenser from the cabinet.
2. Set the header on top of the cabinet and tighten
the 4 screws 1/4 x 1" through the cabinet into the
header.
3. Set the cabinet on top of the base.
4. Install the 4 bolts 1/4" x 1-1/2 through the inside
of the changer into the base and tighten.
5. Optional. You may want to bolt down the
changer to something to prevent someone for
taking the whole changer assembly.

MOUNTING THE AC300-B

THE AC300-B has 4 holes pre-drilled into the left
side of the cabinet. This is for easier mounting to
the right side of an another (vending) machine.
The AC300-B also has 4 holes which can be
punched out on the back of the cabinet for wall
mounting. To remove these, take a large screw
driver and a mallet and from the outside knock the
punch-outs into the cabinet. Warning: you should
remove the Coin dispenser and power supply
board before punching out any of the back holes.

Now that you have chosen the say to
mount the changer, hold up the cabinet to where
you would like it mounted and mark the holes.
8. When the Acceptor is jammed

Loosen thumb screws on both sides of the Acceptor.
Use a coin in case thumb screws are tight.

ะ Lift the upper cover to remove the bill
POWER SUPPLY BOARD (Figure #3)

PROBLEM

1. Green LED on the power supply does not light.

2. Red “Empty” LED is lit on the outside of the changer and the Green LED’s on the bill validator are flashing.

3. Green LED’s on the front of the validator are flashing and the red “Empty” LED is not lit.

4. Coins are jamming in dispenser or the dispenser is mispaying.

5. The 5-amp fuse keeps blowing.

SOLUTION

A. No 120vac present.
   1. Make sure the ON / OFF switch on the power supply board is “ON”
   2. Make sure there is 120vac at the wall outlet.
   3. Make sure the AC line cord is plugged in snugly into the line cord socket on the power supply board.
   4. Check the 5-amp GMA fuse on the power supply board. If this fuse continues to blow every time a dollar is accepted then the solenoid needs to be replaced.
   5. Replace power supply board.
   6. Replace line cord.

B. Coin dispenser is out of coins.
   1. Re-fill dispenser with coins.
   2. Faulty low coin micro-switch. (Replace switch)

C. Bill validator is dirty or jammed.
   1. Clean out validator. (Page 2.)
   2. Replace bill validator.

D. The aluminum plate is worn out.
   1. Replace aluminum plate.

E. The pay out solenoid is shorted.
   1. Replace the solenoid.
NOTE: Before starting this procedure; make sure that the changer is plugged in, the ON / OFF switch is “ON”, and that all wire harnesses are connected securely and correctly. You must also have at least 10 coins in the front right coin tube.

Technical flow diagram for the AC300

Is the “Empty” LED lit on the outside of the changer?

YES → Fill the change dispenser up with coins.

STILL LIT → Make sure the low coin switch is operating properly.

NO → Off

Is the green LED’s on the front of the bill validator ON, OFF or FLASING?

ON

Does the bill validator accept the bill and put it inside the changer?

YES → Dispenser does not pay out at all or pays out

NOT JAMMED SHAFT MOVES FREELY.

NO → OFF

FLASING

1. The green LED’s only flash when the validator needs cleaning, (page 4).
2. The changer is out of money.
3. Replace the Bill Validator.

Check the 5 amp GMA fuse on the power supply board and replace if necessary.

1. Empty all the coins out of the dispenser. Look down each tube for a jammed coin still at the bottom.
2. Check the slide plate and try sliding the plate and solenoid shaft into the solenoid.

1. Replace power supply board.
2. Replace the solenoid.

SHAFT OR SLIDE PLATE STILL JAMS.

1. Replace aluminum plate.
2. Replace solenoid.
**NOTE:** IF DISPENSING 3 QUARTERS, 2 DIMES AND 1 NICKEL, INSERT THE NICKELS INTO THE MICRO SWITCH.

3015-01.  (a) Large tube bracket  
(b) Small tube bracket  
3015-02.  Quarter tubes  
3015-03.  Dime tubes  
3015-04.  9 Pin connector harness  
3015-05.  Micro switch  
3015-06.  Micro switch harness  
3015-07.  Coin flap  
3015-08.  Metal housing  
3015-09.  Bracket spring  
3015-10. Male ground connector  
3015-11. Relay (inside housing)  
3015-12. Plunger  
3015-13. Fuse holder (opposite side)  
3015-14. Solenoid  
3015-15. Aluminum plate  
3015-16. Slide plate  
3015-17. Stainless steel plate  
3015-18. Solenoid spring  
3015-19. Solenoid spring link  
3015-20. FUSE 5AMP AS  
3015-21. HEX HEAD SCREW 1/4"