



INTRODUCTION

Thank you for purchasing the new SC-MAX Conversion Kit from SEM.

The new SC-MAX Conversion Kit allows you to modify your Standard Change-Maker change machine having a System 500, 500e, or 600 bill acceptor. The SC-MAX works well with one of the two following MDB bill acceptors: The MEI VN2632-D5M-CN or the Coinco VX73B34CA00 (Vantage).

Note that the original System 500 and System 600 bill acceptors can be found in many types of cabinet. The following instruction applies to the SC40, SC60 and RL (Rear Load) Series and, with a small physical modification, to the SC90 and SC100 Series. The new SEM circuit controls the entire machine and interfaces between the coin hoppers and the bill acceptor. It is possible to have up to four coin hoppers dispensing any type of

The installation does not require a strong technical background and only few basic tools are required. An average of 20 to 25 minutes is required to perform the installation.

The SC-MAX offers all the same functions that were available with the original bill acceptor and even more, including the sales of tokens, a full detailed audit available on the blue display or printed.

 $\frac{\text{Tools required:}}{\text{To complete the job, the following tools are required:}}$

- 11/32" nut driver
- 3/8" nut driver
- 7/16" nut driver - Big slot screwdriver

DESCRIPTION

- Your new SC-MAX Conversion Kits contains:

 An MEI VN2632-D5M-CN or Coinco VX73B34CA00 (may have been sold separately).
- A stainless steel exterior plate.
- An internal bill acceptor bracket.
- The SC-MAX circuit mounted on a plate.
- A 28-volt "empty" light indicator with its harness.
- One power supply.
- An MDB extension and a flat cable for the Mars Cashflow 330 coin
- A plastic bag containing mixed nuts, two washers and tie-wraps.
- This instruction sheet and a programming flow chart sheet.

COMPONANTS TO REMOVE

Take the audit reading before removing the bill acceptor otherwise it will be

- Shut main power OFF by unplugging machine from the wall outlet.
- Disconnect all wires and cables from the bill acceptor. Remove the bill acceptor and stacker. Do not forget the bills!
- Remove the bill stacker bracket
- Remove the front black bezel held in place with 4 big slot screws.
- Remove the internal bracket held in place with four 7/16" nuts
- Remove the keypad and its bracket. Keep the communication wire as a spare for future use.

If you change the entire facing of the machine as seen above, you will have to remove the coin bezel and the lock cylinders as well. Remove the old vinyl while making sure there is no residue of glue remaining. Apply the new facing carefully. Make the necessary cuts. Re-install the lock cylinders and the coin bezel.

You can now start installing the SC-MAX.

NEW COMPONANTS TO INSTALL

- Take out all the elements from the box.
- Locate the small 28-volt "Empty" indicator.
- Pass it by the round hole of the stainless steel exterior plate
- Install this plate outside the machine.
- Fix the internal support bracket in place.
- Tight both plates with the 3/8" nuts included.



- Place the SC-MAX circuit where the keypad and its support were, using the nuts and washers.
- Install the MEI or Coinco bill acceptor using the 11/32" nuts.
- Pass the cables making sure you do not damage them with the continuous opening of the door or the hopper tilting or any other moving parts. The cables are: the MDB communication, the "empty" light indicator and the flat coin acceptor cable. See note about the coin acceptor.



- 10. Connect all the cables to the SC-MAX circuit as follow:
 - The MDB communication.
 - Black flat connector to the proper socket. (Careful as there is two sizes depending the age of the machine. One has 10 pins while the other has 11 pins. Do not attempt to connect the 10 -pin connector into the 11-pin socket.
 - Coinco 14-pin or Mars 10-pin coin acceptor
 - Hopper cable(s) to socket Hopper A, B, C, and D.
 - The "Empty" indicator.
 - 24-volt power from power supply.
- 11. The new power supply connects directly into the 120-volt outlet in the machine as seen next. If it is missing, you will have to install one. AT-TENTION: The 120-volt socket on the original power supply of the machine, where the hoppers are connected, is not an adequate source of power for the new SC-MAX kit.



Note about the coin acceptor

MARS CashFlow 330

If your Mars Cashflow 330 coin acceptor is equipped with the small vertical interface to its right, this has to be removed. Coming with the SC-MAX is a small 10-pin flat cable as seen on the right.





Coinco GX

The Coinco 15-volt that was connecting to a small interface on its back or halfway to the old bill acceptor MUST be replaced with a Coinco GX 24-volt MDB with its cable. It connects to the "Y" MDB harness of the bill acceptor. Contact SEM if you are not sure.



PROGRAMMING

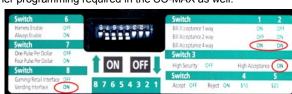
The SC-MAX offers you a full programming of its functions. This programming is achieved using the push buttons on the circuit and the blue LCD display. Another sheet comes with the SC-MAX Conversion Kit. It is an easy-to-follow

PROGRAMMING THE BILLS TO ACCEPT

Programming the bills to accept is done directly on the bill MEI acceptor. On one of the side of the bill acceptor is a green and white sticker surrounding the programming dipswitches. The switches are:

- 1-2 Ways of insertion of the bills (ON-ON)
- High security (OFF) or more permissive acceptation (ON)
- \$10 bills accepted (OFF) or rejected (ON)
- \$20 bills accepted (OFF) or rejected (ON)
- The enable signal is managed by the SC-MAX (OFF).
- Pulse per dollar (OFF)
- Vending Interface (ON)

The default setting should be 1, 2, 3, and 8 ON; the others OFF. This will result in a four-way acceptance, a permissive acceptation, \$10 & \$20 bills accepted, enable signal managed by the circuit, one pulse per dollar and vending interface. Other programming required in the SC-MAX as well.



Default Settings / Réglages par défaut **MEI VN Series**

If you are using a Coinco bill acceptor, consult the Quick Reference Guide included with this bill acceptor.

BEFORE APPLYING POWER TO YOUR MACHINE, READ THIS

The original power supply of the machine now only serves to power up the coin hoppers. It does not power up the new SC-MAX Conversion Kit. For your machine to work properly, the main switch must be ON and the new power supply plugged. This means that when you wish to shut down power in the machine, you will need to do it from both sources or simply unplug the entire machine from the wall. Apply power and test with every bills and coins to make sure you dispense the proper change.



An empty hopper still have few coins left in the dispense mechanism. You can dump it. A hopper must be empty to dump. Press on the DUMP button for about 3 seconds. The hopper motor starts turning clearing the coins left.

ERROR MESSAGES

Message

The SC-MAX enables the diagnosis of problem through the blue LCD display. The "Empty" light indicator will serve as an alarm telling you to open the machine. If it flashes, one or more coin hoppers are empty. If it's ON solid, there is an error in the system. The error will then be visible on the display. Any error messages can be cleared using the CLEAR button on the SC-MAX. Below are the most frequent error messages.

What to do

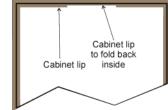
Means

wessage	IVIEALIS	Wilat to do
Bill box out of position	Bill box on the acceptor is misplaced	Place it back correctly.
Bill jammed, call service operator *	Bill jammed in the bill acceptor.	Remove it.
Check Hopper / Value Settings	No value assigned to hoppers	Program the coin value for the hopper.
Coin jam, push coin return *	Coin jammed in the coin acceptor.	Remove coins.
Fast vend shut off reached!	The quantity of bill inserted surpasses the limit set. (see System Settings).	Adjust if needed
Hopper(s) A B C D anti-jack-pot	Hopper A, B, C, or D saw a coin passing by without authorisation or + than 100 coins went out or hopper value programmed while hopper absent or no communication with hopper.	Check the hopper, make some tests, change it in case of doubt. Check programming. Program a value to hopper present only. Check communication
Hopper(s) A B C D has coin jammed	Hopper A, B, C, or D is jammed.	Shut power OFF and clear the jam.
Hopper(s) A B C D has opto blocked	Hopper A, B, C, or D has it coin detector obstructed.	Open the hopper panel to clear the obstruction.
Hopper(s) A B C D Sold Out	Hopper A, B, C, or D is empty or original main switch OFF.	
Validator error, stacker full	Bill stacker is full.	Empty it!
* Messages visible by the customer on the optional external display.		

Messages visible by the customer on the optional external display

ANNEX FOR SC90 & SC100 MACHINES

The SC-MAX Conversion Kit goes in SC90 and SC100 machines with a small modification. You must cut the top of the cabinet as the bill acceptor bracket is located too high on the door. It is then impossible to close the door by just few millimetres. Mark the spots where you need to make a cut. Using a metal saw or even better, with a rotating tool such as a Dremel, make two or three cuts in the cabinet lip. Once the cuts done, with a good pair of pliers, pry back the cabinet lip inside.



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February 2013

