

VENDING  
VC  
CONCEPTS  
**AP 6000 In One  
Board Support**



## Vending Concepts AP 6000 In One Board Support User Guide

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**Vending Concepts AP 6000 In One Board Support**



### Product Specifications:

- **Motor Configuration:** Configurable
- **Coinmech and Bill Acceptor Configuration:** MDB or Pulse Bill Validator
- **Operating Voltage:** 110-volt or 24-volt
- **Payment Options:** Card Reader, Coin Changer, Bill Acceptor

### Product Usage Instructions

#### Configure Motors and Clear Errors:

1. Tap the yellow or gray service mode button to enter SERVICE MODE.
2. If SYS ERR is displayed, scroll down once and stop. If Motor Errors appear, press CANCEL.
3. Press ENTER/EXECUTE until MAIN/MENU is visible for any other errors.
4. Scroll down to CONFIGURE and press ENTER/EXECUTE.
5. Scroll down twice to Configure Motors and hit ENTER/EXECUTE.
6. Wait for the machine motor count to be displayed.
7. Press CANCEL to go back to MAIN/MENU.

#### Configure Coinmech and Bill Acceptor:

- If using a PULSE BILL VALIDATOR:
  - Go to OPTIONS and hit ENTER/EXECUTE.
  - Set BILL VAL to PULSE.
  - Ensure switch 7 is ON and switch 8 is OFF for pulse mode.
  - Check that the acceptor is set for short pulse (50ms).
- For MDB mode, ensure switch 7&8 are OFF for MEI/MARS products.
- Refer to the provided Configuration and Usage Instructions document for specific model number switch changes.

### Pricing the Vendor:

1. Press the service mode button to check for system errors.
2. If issues persist, ensure correct motor configuration and payment device settings.
3. Verify that card reader default credit matches the most expensive product price.
4. Refer to the Configuration and Usage Instructions for further troubleshooting steps.

## Frequently Asked Questions

### **Q: How do I troubleshoot if the machine displays errors after configuration?**

**A:** Check motor configuration, payment device settings, and refer to the provided instructions for specific error resolution steps.

### **Q: Can a 24v MEI/MARS validator be converted to MDB operation?**

**A:** Yes, it can be converted with a simple MDB harness change available separately.

## QUICK START PROGRAM GUIDE

## HOW TO PROGRAM A NEW ONEBOARD KIT

Once hardware has been installed, it is necessary to program the controller for the specific machine. The basic procedure to configure any In One kit is basically identical. If you are using the kit with a non-MDB coin changer or bill validator, please refer to page 15 of the Configuration and Usage Instructions document that comes in the kit box for all necessary Pulse Bill Validator Settings. In One controllers make use of a red switch block with either 2 or 6 white switches which sets the keypad, door switch, machine type and sensor support. These settings can be found on pages 1 & 2 of the Configuration and Usage Instructions.

## KIT SPECIFIC KEYPAD INFORMATION

Each kit may use different keys to perform specific functions. Please note those used for your kit before proceeding.

Kit Type	Execut	Key	Cancel Key	U Key	Down Key
RVMC-6/7000-x	14		12	11	13

## CONFIGURE MOTORS AND CLEARING ERRORS

Enter SERVICE MODE by tapping the yellow or gray service mode button. The display should show either

“MAIN/MENU” or “SYS ERR”. If you do see “SYS ERR” (system errors), scroll down once and STOP. If “Motor Errors” appears on the display (this is normal during the initial install), press the CANCEL key. You should now see “MAIN/MENU”. For any other errors present, press the ENTER/EXECUTE key until “MAIN/MENU” is visible.

Scroll down to “CONFIGURE” and press the ENTER/EXECUTE key. Scroll down 2 more times to “Configure Motors” and hit the ENTER/EXECUTE key. You will see “please wait...” followed by the machine motor count. The controller pings all motors and comes back with what it sees, for example, “please wait...45 motors”. Hit the CANCEL key to back out to “MAIN/MENU”.

## **CONFIGURE COINMECH AND BILL ACCEPTOR**

**Note:** If all payment devices are MDB then no service mode changes are needed, but coin tubes need to be at least half-filled for the machine to be self-maintaining.

**IMPORTANT:** InOne controllers can support micromech changers, pulse bill validators and all MDB payment devices. It is possible to plug in both legacy (original pulse/micromech) harnessing and MDB harnessing to the InOne controller. If you have an MDB validator and you plug in the pulse harness from the machine to the controller, you effectively make both devices inoperable. This is because legacy and MDB are mutually exclusive for the same type of payment device. You must use only one harness for the payment device being used whether pulse or MDB. This applies to changers as well. If using an MDB changer, do not plug in the micromech changer harness from the cabinet to the controller or you will prevent the MDB changer from being operational. The rule of thumb to follow is to only plug in harnessing that will be used with the new controller. If you are not using a pulse validator or micromech changer then do not plug those harnesses onto the board.

### **IF USING A PULSE BILL VALIDATOR:**

Go to “OPTIONS” and hit ENTER/EXECUTE key. Set “BILL VAL to PULSE”.

If using a MEI/MARS in MDB mode, make sure switch 7&8 are OFF. For pulse mode, set switch 7 ON and 8 OFF. Make sure that the acceptor is set for short pulse (50ms).

**NOTE:** Bill acceptors have 4-digit model numbers. All bill acceptor switch changes that need to occur can be found on page 15 in the Configuration and Usage Instructions document provided with the kit. For MEI/MARS products, the last number in the model number indicates operating voltage. If the bill acceptor ends in a “1” (like in VN2501) then it is a 110-volt pulse bill validator only. If you have an acceptor that ends in a “2” (VN2512 for example) then it is a 24-volt validator.

Any 24v MEI/MARS validator can be converted from pulse to MDB operation with a simple MDB harness change available elsewhere.

### **IF USING A ‘DUMBMECH’ CHANGER:**

#### **SET COIN LEVEL MEMORY**

In “OPTIONS” menu, set COIN LEV MEM to ON. Now prime the board with change so that the pulse bill acceptor is enabled. Exit “OPTIONS” menu by pressing the CANCEL key and go up to “FILL/DISPENSE”. Hit ENTER/EXECUTE key. The display will read “Select Tube 1 -5 or insert coins”. Press 1,2,3 on the keypad and confirm a nickel, dime and “quarter dispense”. Now insert ten of each coin type through the coin slot on the face of the machine. Do NOT fill coin tubes from the back, coins need to run through the acceptor portion to be counted on the vending display. Validators will NOT work unless the controller sees change to dispense for a bill sale.

#### **CHECK BILL VALIDATOR**

After priming the controller with coins, turn the machine off, wait 5 seconds and then turn back on. The machine will be reinitialized, and the bill acceptor should function with the new configuration (if changed). The acceptor should indicate it is enabled with a solid red light. If the acceptor shows 2 flashes, this means it is disabled from machine. This is most likely because the controller thinks the coin changer cannot dispense enough coins or there is an hardware issue with the coin changer. Perform 3-4 coin vends and turn machine off and back on, keep your eye on the bill acceptor. The light should change to solid momentarily. If so, insert a bill. If not, perform several

more vends with coins so the board counts those coins into memory. Confirm COIN LEV MEM is turned on in “OPTIONS.” Try bills again and confirm correct change is given after successful vend. Please note the machine needs to be power cycled for the bill acceptor to work after the initial configuration setup in service mode. The controller must see coins in the changer to enable the validator to accept bills. Most times malfunctioning validators are because the changer needs servicing or is defective, it is not the fault of the bill validator in most cases but the changer.

## PRICING THE VENDOR

From “MAIN/MENU” scroll down to “PRICE” and press ENTER/EXECUTE key. You can price the machine using 3 menu options, SINGLE PRODUCT, ENTIRE TRAY, or the ENTIRE MACHINE. Set ENTIRE MACHINE for the most common price, next price all trays that have all the same priced items, then finally go to single product to adjust individual selections. Exit service mode by pressing the cancel key or pressing the service mode button. Turn vendor off for 5 seconds and then back on. Close machine door and perform coin vends and bill vends and ensure you receive correct change. You have finished the configuration. If all equipment is functioning normally then proceed to zip tie stray cabling and tidy up the cabinet so personnel cannot accidentally tug on a wire by accident causing a service call. If one or more payment devices or motors are not working, then press the service mode button and check for system errors. Most likely the motors were not configured properly, or possibly a payment device is set incorrectly or the machine and/or selection is not priced yet. For card reader payment issues, ensure the default credit of the card reader is equal to the most expensive product being sold, if not, the card reader could say offline by vendor and not accept payment. Further troubleshooting steps can be found in the Configuration and Usage Instructions.

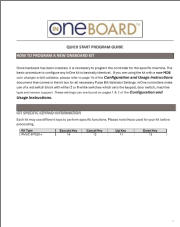
## CONFIGURING SENSORS – OPTIONAL

If sensors are going to be installed, refer to pages 1&2 of Configuration and Usage Instructions for appropriate switch settings. Typically switch 4 is turned on to enable sensor support, other controllers may use switch 2 for sensor support.

While in Service Mode, select “OPTIONS”, then “MOTOR STOP”. Press ENTER until either “DROP” or “BOTH” is selected. ‘BOTH’ is the suggested setting for public facing customers while “ DROP” is used for daily same use customers.

When set for “BOTH”, the motor will turn one full revolution before a message stating “Please make another choice” appears. The motor will then return to 6 o’clock ‘home’ position. When set for “DROP”, the motor turns one revolution full speed and then rotates half speed 2-3 times more to force product drop. Once the product drops, the motor will stay in its current position, it will not go back to 6 o’clock home. If the sensors fail during operation of the machine, the controller will automatically change the MOTOR STOP position to HOME to continue normal operation until the sensor error can be addressed.

## Documents / Resources

	<p><a href="#">Vending Concepts AP 6000 In One Board Support</a> [pdf] User Guide AP 6000, AP 7000, AP 6000 In One Board Support, AP 6000, In One Board Support, One Board Support, Board Support, Support</p>
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## References

- [User Manual](#)

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