

Instructions to Install Retrofit Kit **RVMC 4/5000 Machine (MDB Only)**

****TURN POWER OFF OF MACHINE BEFORE INSTALLATION****
READ ALL INSTRUCTIONS BEFORE STARTING INSTALLATION

Retrofit Kit Contents

PART NAME	QUANTITY	PART NUMBER
PCBA, GG Retrofit Controller	1	10-0253-00
RVMC Mounting Plate	1	05-1133-10
Cover, Display Retrofit	1	05-0090-01
Assembly, RVMC Front Cover w/ DEX	1	05-0150-02
1" Standoff Hardware Kit	1	05-0151-00
Cable Assembly, Retrofit Display	1	11-1700-01
Cable Assembly, Retrofit Keypad 1 (Pin2=Key)	1	11-1700-02
Cable Assembly, Retrofit Keypad 2 (Pin12=Key)	1	11-1700-03
Cable Assembly, Door Switch	1	11-1700-04
Cable Assembly, Retrofit MDB Ext	1	11-1700-06
Cable Assembly, Retrofit MDB 13'	1	11-1700-17
Cable Assembly, Retrofit Power Adapter	1	11-1700-18
Male Conversion Header Kit	1	05-0152-00
Panel, Retrofit OLED Display Assembly	1	05-0091-00L

Tools Needed:

Screwdriver, Philips
Nut Driver, 5/16"

Additional Accessories Needed:

MDB Coin Changer
MDB Bill Validator (if necessary)

RVMC 4/5000 Retrofit Installation Instructions

Installation Procedure:

1. Fully open the vending machine door and set a door stop to hold door open.
2. On left hand side of door, locate the Vending Machine Controller PCBA (VMC) (see figure 1).



FIGURE 1

3. Disconnect all cables from the VMC PCBA. Then remove the four PCBA retaining nuts and remove the board from its mounting.
4. Locate the VM Display PCBA and remove and save the two screws retaining the display PCBA and bracket. (Figure 2). Remove bracket and display PCBA.

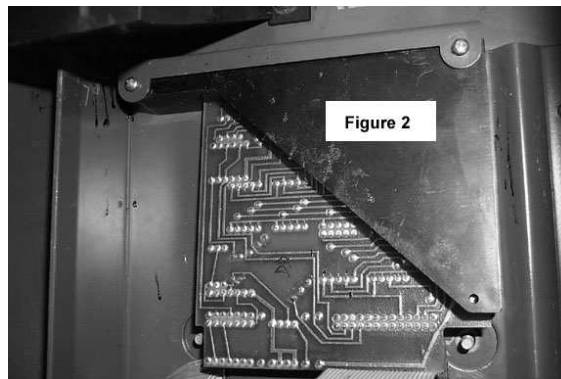
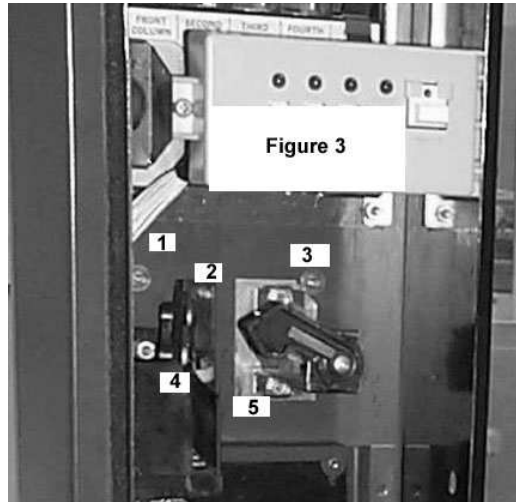


Figure 2

RVMC 4/5000 Retrofit Installation Instructions

5. Locate the coin return (escrow) lever. Locate the five nuts surrounding it numbered below in Figure 3. Remove and save nuts 1,2,3,5. Next, loosen nut 4. The plastic coin slot can now slide out. Now, you can completely remove nut 4. Save all five nuts. This loosens the keypad bezel on the front of VM door.

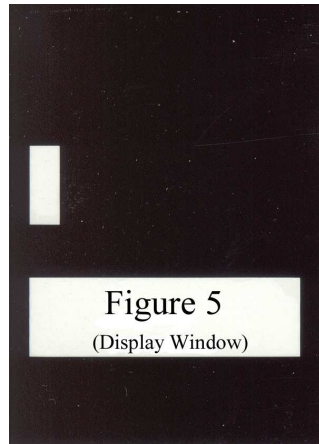


6. Lift the bezel away from door and then remove the red plastic display (Figure 4) from behind the bezel.



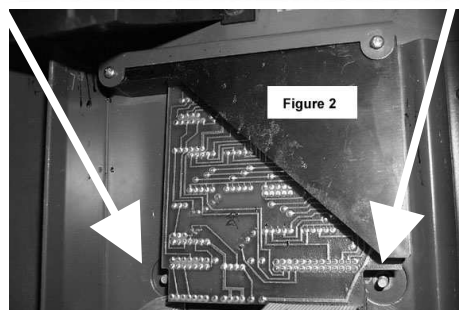
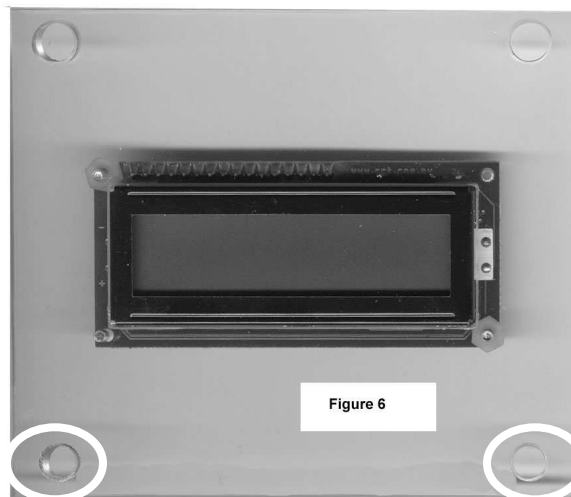
Replace this item with the black backed plastic display cover, **05-0090-01** (Figure 5), contained in the retrofit kit. A plastic protective film will have to be removed on both sides before installing. Make sure the display cover is oriented as it is below with the machine's door shut.

RVMC 4/5000 Retrofit Installation Instructions



Replace the keypad bezel plate and the plastic coin slot and secure with the five nuts.

7. Install the OLED Retrofit display assembly, **05-0091-00L** (Figure 6), contained in the retrofit kit. Remove the protective plastic film from the display window. Place the display assembly so that the display is aligned with the window of the plastic display cover. Fasten the display assembly using the two standoffs saved from step 3 using the bottom two mounting holes of the assembly.



RVMC 4/5000 Retrofit Installation Instructions

8. Remove the Service Switch Panel located at the top inside of the vending machine door by removing the two screws on the side of the panel and loosening the third to the left of the panel. Save the two screws. Remove this panel and disconnect the 17 pin connector. Replace with the retrofit kit Door Switch cable assembly, **11-1700-04** (Figure 7).



9. Replace the panel to its original position and screw in the two screws and tighten the third so it stays in place.
10. Install the new RVMC Mounting Plate **05-1133-10** into the machine using its associated hardware. The two threaded standoffs are screwed onto the studs located midway in the door (Figure 8). The panel is then mounted using two 3/8" length 6-32 screws into the studs and two 3/8" length screws into the lower "Z" bracket. Note the orientation as shown on the plate's label (Figure 9).



Figure 8



Figure 9

RVMC 4/5000 Retrofit Installation Instructions

11. Install the four **05-0151-00** 1" nylon standoffs to the **10-0253-00** RVMC Control Board. This must be done before its mounted. The standoffs are located as shown in Figure 10.



Figure 10

12. Install the new RVMC Control Board **10-0253-00** onto the 4 short nylon standoffs already attached to the **05-1133-10** mounting plate. Use the remaining four 1/4" length 6-32 screws included in that kit to attach the board at the four corners.

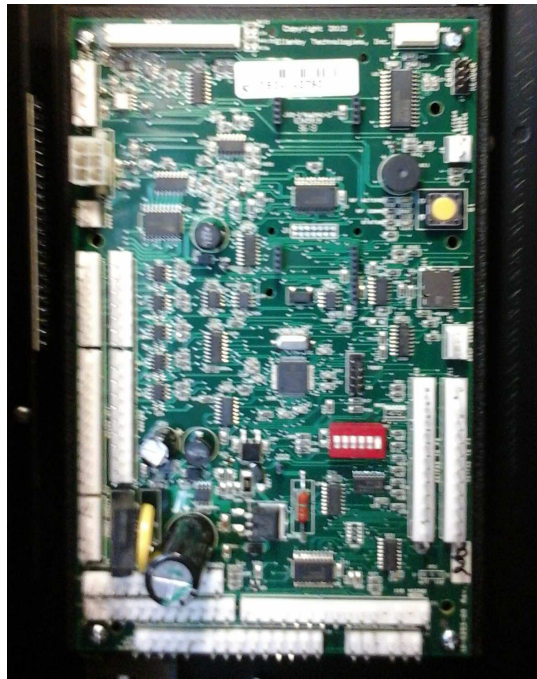


Figure 11

RVMC 4/5000 Retrofit Installation Instructions

13. Open the pull out door in the machine holding the coin changer. Access the coin changer by pressing the latch shown in Figure 12.

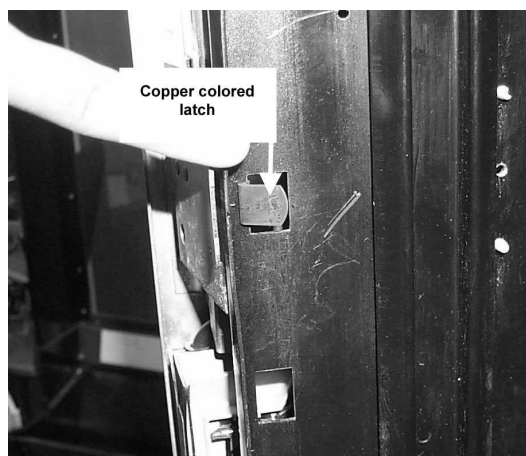


Figure 12

Disconnect the coin changer and then slide the changer up to release from mounting studs. Replace it with a MDB interface coin changer by matching the mounting keyholes with the machine mounted studs.

14. Connections to the VMC can now be completed.

J10 & J13 (Keypad) – There are two flat ribbon cable female connectors coming directly from the selection keypad. These connectors are attached to the new control board using two extension cable assemblies designated “Retrofit Keypad #1”, **11-1700-02**, “Retrofit Keypad #2”, **11-1700-03**, and the two male conversion headers **05-0152-00**. Connect these cables as follows:

Connect **11-1700-02** to **J13** on the outer right side of the control PCBA. Insert the male conversion header, **05-0152-00** to the other end of the cable and connect to the lower selection keypad ribbon connector.

Connect **11-1700-03** to **J10** on the inner right side of the control PCBA. Insert the male conversion header, **05-0152-00** to the other end of the cable and connect to the upper selection keypad ribbon connector.

J2 (Display) – Connect the Retrofit Display cable, **11-1700-01**, between the display panel and **J2** of the control PCBA. **J2** is located on the top left.

J19 (Power) – Connect the Retrofit Power Adapter cable, **11-1700-18**, between the existing power cable and **J16** of the control PCBA. **J16** is located on the bottom left side.

RVMC 4/5000 Retrofit Installation Instructions

J17 (Motors) – Connect the existing motor cable to the inner row of motor pins. They are located on the left side of the control PCBA. It will have a total of 18 pins, with pin 11 keyed.

J8 or J23 (Door Switch) – Connect the two position cable end of the Door Switch cable, **11-1700-04**, into J8 or J23 of the control PCBA. This cable was installed into the Service Switch Panel in Step 8. **J8** is located near the top right side and **J23** is located near the top left side. It makes no difference which one is connected and there is no connector orientation.

J3 (MDB) – Connect the MDB Extension cable, **11-1700-06**, between the MDB Bill Validator and **J4** of the control PCBA. **J4** is located near the top left side.

J3x (MDB – 13') – Connect the MDB 13' cable, **11-1700-17**, between the MDB Bill Validator and the MDB Coin Mechanism in the machine. Take care when routing the cable so it doesn't get pinched when the door is closed.

15. Attach the Front Cover, **05-0150-02**, to the 4 standoffs on the RVMC control PCBA. These were installed in Step 11. Use the 4 screws that were provided with the kit. The cover already has the DEX connector installed. The DEX connector cable should be plugged into the J5 DEX connector located at the top right of the control PCBA. The cable should be plugged in before screwing on the cover. Attach the decal to the cover as the final step.



Finished

Figure 13