

## RVMC-USISM36-1 Retrofit Kit

**\*\*TURN OFF MACHINE POWER BEFORE INSTALLATION\*\***

**READ ALL INSTRUCTIONS BEFORE STARTING INSTALLATION**

**NOTE:** This USI kit will work in most USI 3000-3100 series legacy snack vendors to support SM3, SM4 & SM6 based controllers. This kit will not support side cabinets or soda machines. Due to variances in cabinet design some modification may be necessary.

**Retrofit kit contents:**

<b>PART NAME</b>	<b>QUANTITY</b>	<b>PART NUMBER</b>
PCBA, USI SM3 Retrofit Controller	1	10-0279-10
USI SM3 Retrofit Display Assembly	1	05-1170-00
USI SM6 Keypad Adapter	1	11-1700-20*
USI SM6 Power Adapter	1	11-1700-21*
USI MDB Extension	1	11-1700-06

\* See IMPORTANT note below

**Tools Needed:**

Screwdriver, Philips

**IMPORTANT:** The RVMC-USISM36-1 kit supports multiple generations of USI machines. The keypad (11-1700-20) and power adapter harness (11-1700-21) included with this kit is to give flexibility to perform on multiple USI cabinets but are only needed on some USI models. Before beginning installation use the table below to identify which harnesses you will need. Known machines that must use the adapter harnesses are: 3053,3054,3184,3185.

<b>Factory Harness</b>	<b>Kit Harness</b>
10-pin with pin 6 keyed power	Use original factory harness in J1
3-pin power	Use 11-1700-21 power adapter harness to connect the factory power connector. The 10-pin kit harness connector plugs to J1 power on the board.
13-pin Keypad	no adapter is used
11-pin Keypad	Use 11-1700-20 keypad transition harness. The 13-pin connector plugs directly to J4 on the InOne controller

## Installation

### Follow the steps to install the new USI Snack Mart Retrofit Kit:

1. Unplug the power from the machine. Failure to do so could result in damage to the machine or electric shock.
2. Slide the control panel assembly out (*Figure 1*) and locate the Vending Machine Controller VMC. The VMC is usually mounted directly behind the keypad but on some model machines the controller may be mounted on the side of the cabinet. Carefully, unplug all connections to board. (*Figure 2*)
3. Using a screwdriver, remove the four screws that mount the VMC and remove the VMC from the machine.
4. Locate the factory display PCB mounted above the VMC. Some models will require that the bill acceptor be removed to gain access to the display board. Unscrew the four screws mounting the PCB display and remove it from the machine.

Note: due to variances in cabinet design, you may see something slightly different.

5. The new display panel provided can now be mounted in the machine. In order to accommodate support for as many models as possible, there are additional mounting holes in the display bracket that may or may not be needed. Locate the new display panel (**05-1170-00**) in the retrofit kit. This will mount exactly where the old display board was mounted, using same mounting holes and screws.



Figure 1

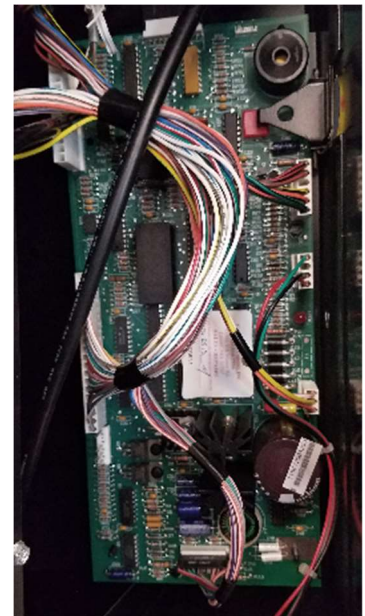


Figure 2

6. Orient the panel so that the header on the display is towards the top of the machine. The DEX plug should also be facing towards the inside of the machine. Some machines require you to remove the DEX-27 from the display bracket and zip tie to secure if clearance is an issue. Refer to figures 3a and 3b.



Figure 3a

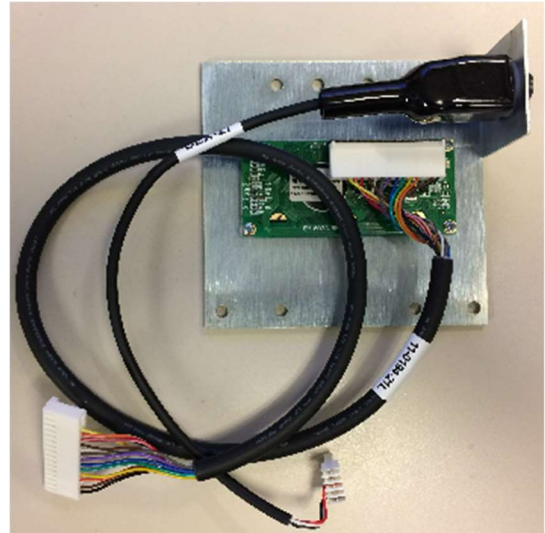


Figure 3b

7. Mount the new retrofit VMC (**10-0279-10**) in the machine. The controller will mount exactly like the original VMC, using the same four mounting holes and same screws. Orient the board so that J3, display header, is located towards the top of the machine.

**Note:** some controllers are on the door, other models inside the cabinet. On some model machines the keypad header is installed facing up. Refer to Figure 4.

8. Make sure switch 3 on the controller is set for **OFF (down)** for **Snack Mart 3** installations or **ON (up)** for **Snack Mart 6**. This tells the controller what machine model to support.  
See SW1 on Figure 5

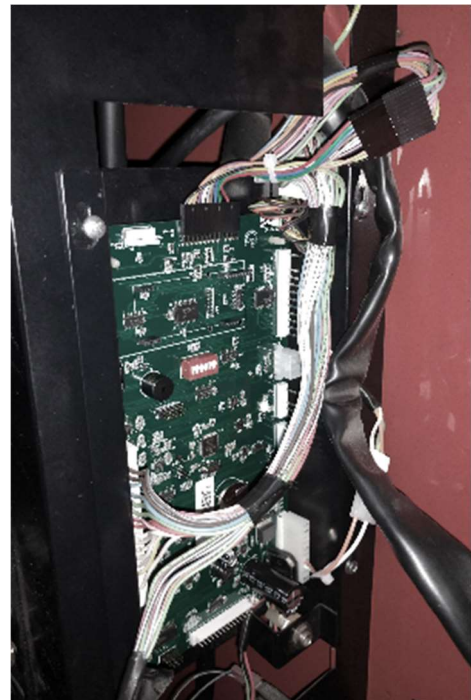


Figure 4

Harness Connections:

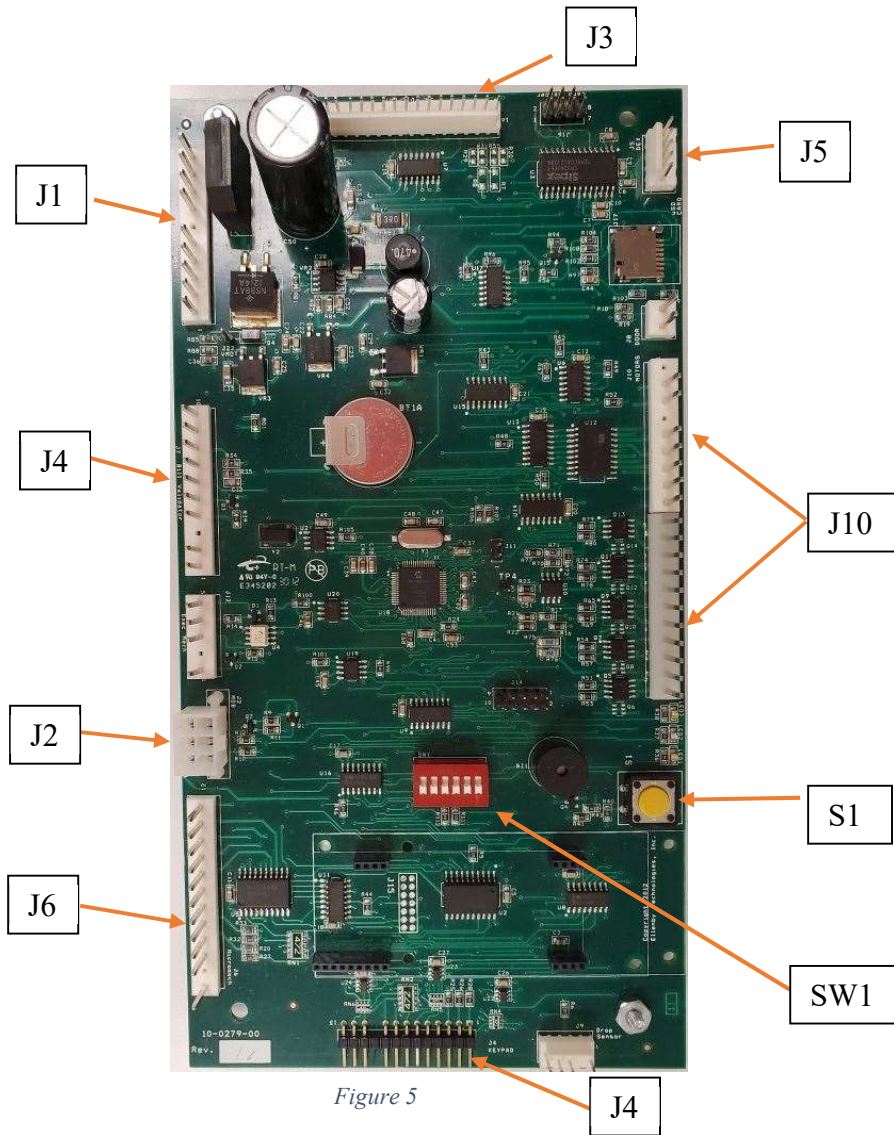


Figure 5

<b>J3</b>	Display Cable <b>11-0194-21L</b>
<b>J5</b>	<b>DEX-27</b> Cable
<b>J10</b>	Motor Cable (20-pin header with pins 2 & 4 keyed)
<b>J4</b>	Factory keypad harness plugs into the keypad transition cable, <b>11-1700-20</b> and then to J4
<b>J1</b>	Plug 3-pin Factory power cable to power extension cable, <b>11-1700-21</b> and then into <b>J1</b> .
<b>J8</b>	Left open
<b>J2*</b>	MDB peripherals (Coin, Bill, Card, etc) plug directly into <b>J2</b> unless <b>11-1700-06</b> MDB extension cable is needed.
<b>J7*</b>	Pulse Bill Validator
<b>J6*</b>	Micromech changer

**\*Optional dependent upon peripherals installed in machine.**