Instructions to Install Retrofit Kit
USI 3129 Machine

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

RVMC-USI 3129 Retrofit Kit Contents

PART NAME	QUANTITY	PART NUMBER
PCBA, RVMC USI 3129 Retrofit VMC	1	10-0257-00
Assembly, USI 3129 Display	1	10-0064-10
Lens, USI 3129 Display	1	05-0172-00
Lens Mask, USI 3129 Display	1	05-0173-00
Hardware, USI 3129	1	10-0257-HDWR-KIT
Cable, USI 3129 MDB Cable	1	11-1700-14
Cable, USI 3129 Sensor Cable	1	11-1700-15
Assembly, USI 3129 DEX	1	05-1174-00

Tools Needed:

Screwdriver, Philips
Nut Driver, 3/8"

EXISTING VMC & DISPLAY REMOVAL

1. Fully open the vending machine door.

2. Turn off power to the vending machine.

3. Locate the existing Vending Machine Controller (VMC) at top left of the door.

4. Unplug all cables connected to the VMC.

5. Remove the VMC.

6. Remove the VMC mounting plate (**save nuts for later**).
   See **Figure 1**.

7. Remove the red display lens. See **Figure 1**.

Figure 1

NEW DISPLAY INSTALLION

8. Install the 4 standoffs (from hardware kit) onto the mounting plate studs. These
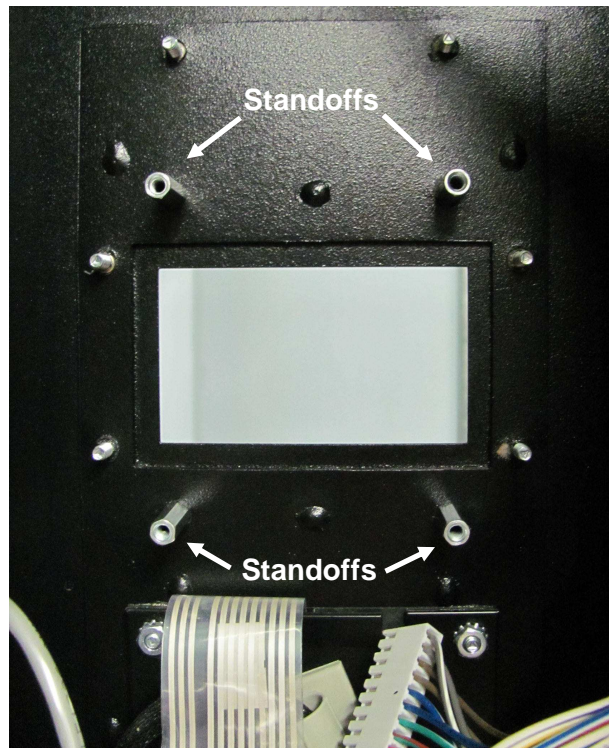   are used later to reinstall the VMC mounting plate.   See **Figure 2**.
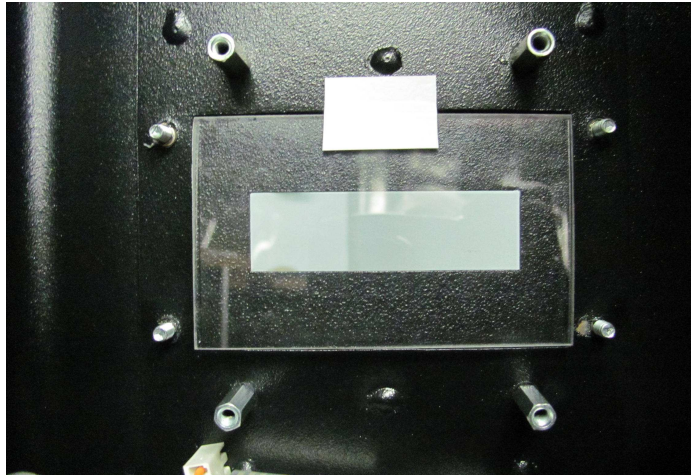

Figure 2

9. Locate the new display, display lens, and display mask in the kit.

    >>>> Remove the protective cover on the display <<<<

10. Insert the **05-0173-00** lens mask into the door opening followed by the **05-0172-00** lens. It helps to put a piece of tape on the top to hold the parts in place until the display bracket is mounted.   See **Figure 3**.

Figure 3

11. Position the **10-0064-10** display bracket assembly over the mounting studs and attach using the existing 2 nuts and the 2 new ones supplied in the hardware kit. See **Figure 4** for correct orientation.
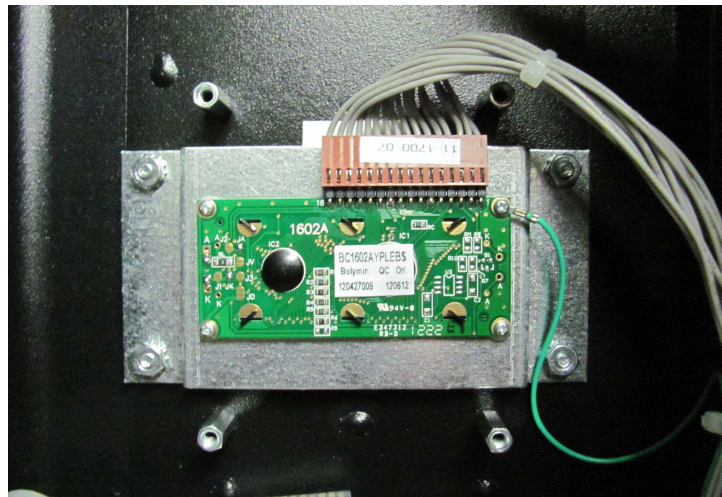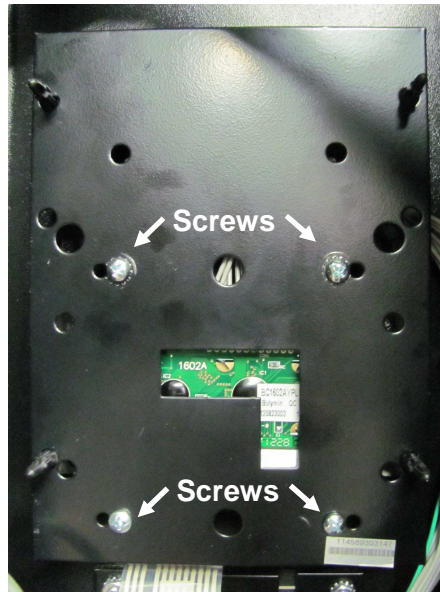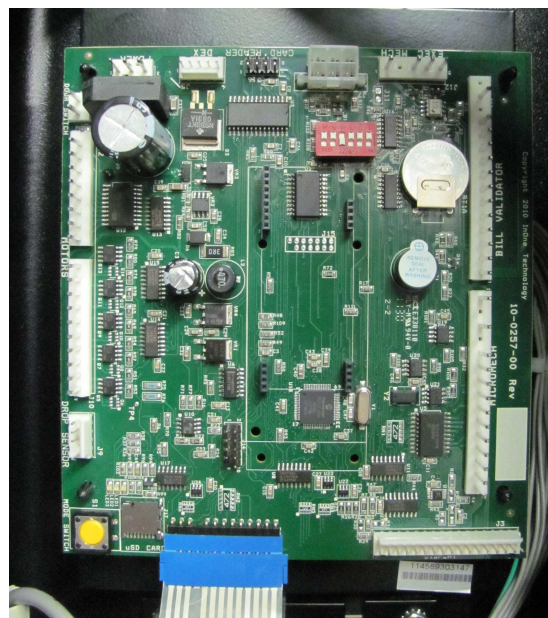

Figure 4

NEW VMC INSTALLION

12. Reinstall the VMC mounting plate removed in Step 6 using the 4 screws supplied in the hardware kit. The plate mounts on the 4 standoffs installed in Step 8. See **Figure 5.**

Figure 5

13. Locate the new VMC in the kit and mount directly onto the existing standoffs using the 4 corner mounting holes. See **Figure 6** for correct orientation (the yellow service pushbutton goes on the lower left).

Figure 6

DEX Bracket INSTALLION

14. Install the DEX bracket on the top harness tie plate using the rightmost 2 holes. Two #8 screws are provided in the hardware kit. See **Figure 7**.

Figure 7

CABLE INSTALLATION

15. **J1 -** The **power** connection is an existing cable with a 3 pin connector. This plugs into **J1** located near the top left of the board.

16. **J3 -** The **display** connection is a new cable with at 17 pin connector. It was part of the **10-0064-10** display. This plugs into **J3** located near the bottom right of the board.

17. **J4 -** The **keypad** connection is an existing flat cable with a 13 pin connector. This plugs into **J4** located on the bottom left side of the board. Pin 10 is keyed (Pin 1 toward the right of the VMC).

18. **J5 -** The **DEX** connection is a new **DEX-27** cable supplied with the kit. This plugs into **J5** located on the top left of the board.

19. **J7 -** The **MDB** connection is a new **11-1700-14** cable supplied with the kit. This plugs into **J7** located on the top middle of the board.

   The other end of the cable is a 7 position pin header that should be connected to the original MDB cable that plugged into **P8** of the original VMC. Pin 2 is keyed.

20. **J6 & J9 -** The **drop sensor** connection is a new **11-1700-15** "Y" cable supplied with the kit. The cable has a 6 position **J6** connector that plugs into the upper 6 pins of the **Micromech** connector on the right side of the board. Pins 2 & 4 are keyed (Pin 1 toward the top of the VMC). The cable also has a 5 position **J9** connector that plugs into the **J9** Drop Sensor connector located on the left of the board.

   The other end of the cable is an 11 position pin header that should be connected to the original Micromech cable that plugged into **P5** of the original VMC. Pins 2 and 4 are keyed.

21. **J22 -** The **motor** connection is an existing cable with a 19 pin connector. This plugs into **J22** located on the left side of the board. Pin 9 is keyed (Pin 1 toward the top of the VMC).

Finished