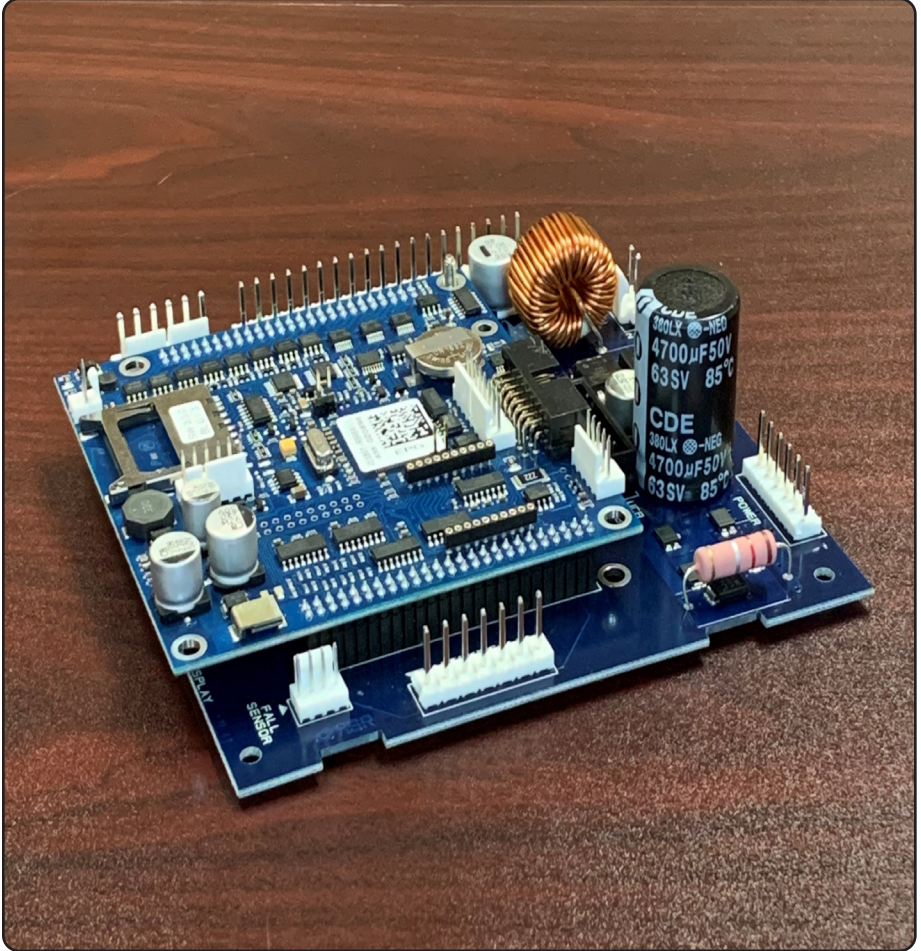




STUDIO SL SNACK MACHINES  
KIT NUMBER **VE5820SL / VE5820SLD**



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## PRECAUTIONARY STATEMENTS

Dear Valued Customer,

Thank you for purchasing the Universal Control Board (UCB™) from Vendors Exchange International®.

This manual outlines how to install the UCB on Studio SL snack machines.

Please read all instructions thoroughly before installation. If you need any assistance, call **1-800-321-2311**.

We appreciate your business and thank you again for making Vendors Exchange your choice for innovative vending solutions.

**WARNING and NOTE statements are used in this installation manual to stress important information. The statements are defined below.**

**Please refer to our website <https://www.veii.com/terms-and-conditions> for details about warranties**

## WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

## NOTE

A NOTE statement is to notify the user of installation, operation, programming, or maintenance information that is important, but not hazard related.

# UCB™ CONTENTS

## KIT CONTENTS FOR UCB SL (VE5820SL)

| PART #    | DESCRIPTION                         | QTY |
|-----------|-------------------------------------|-----|
| VE1015697 | PROGRAMMING INSTRUCTIONS GUIDE      | 1   |
| VE5801    | UCB (UNIVERSAL CONTROL BOARD)       | 1   |
| VE5816    | MDB HARNESS                         | 1   |
| VE5817    | DEX HARNESS                         | 1   |
| VE5819    | FCC LABEL                           | 1   |
| VE1017759 | KEYPAD LABEL                        | 1   |
| VE1021051 | HARNESS BOARD                       | 1   |
| VE1021746 | ASM , LCM DISPLAY                   | 1   |
| VE4601K   | 6" BAR LOCK CABLE TIE-NATURAL COLOR | 8   |
| VE4650K   | MOUNT, TIE 4-WAY ADHESIVE           | 8   |
| VE1021857 | WIRE CLIP, 1" X 5/9" X 9/16"        | 3   |
| VED5778   | 4-40 X 5/16 PHMS PHIL SCREW         | 2   |
| VE1865D   | 4-40 KEPS NUTS                      | 2   |
| VE1021857 | INSTALLATION MANUAL                 | 1   |

## DROP SENSOR ASSEMBLY - VE1021185 (ONLY INCLUDED IN KIT VE5820SLD)

|               |                              |   |
|---------------|------------------------------|---|
| VE1021192     | SENSOR BRACKET               | 1 |
| VE9300SBUSA2  | DROP SENSOR BOARD            | 1 |
| VE9308        | MAGNETIC POSITION STRIP      | 1 |
| VE9308A       | .19 X .75 X 1 MAGNET         | 1 |
| VE9300SBLABEL | LABEL FOR DROP SENSOR BOARDS | 1 |
| VE9314        | PLASTIC DEFLECTOR            | 1 |
| VE9300RTAP7M  | REFLECTIVE TAPE              | 1 |
| VE7207K       | #8-32 KEPS NUTS              | 1 |
| VE4601K       | 6" BAR LOCK CABLE TIE        | 8 |
| VE46050K      | 4 - WAY ADHESIVE TIE MOUNT   | 8 |
| VE5901AH      | DROP SENSOR HARNESS          | 1 |
| VED5778       | 4-40 X 5/16 PHIL SCREW       | 2 |
| VE7378        | #4-40 KEP NUT                | 2 |
| VE1016307     | 6-32 X .250 PHIL ROUND SCREW | 2 |

## TOOLS REQUIRED



- Tape  
(Green preferably)



- Flathead Screwdriver



- Nut Driver Set



- Phillips Screwdriver  
(Magnetic Preferably)

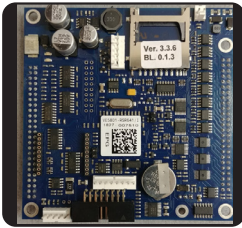


- Cordless Drill



- Needle Nose Pliers

# INDIVIDUAL PARTS BREAKDOWN

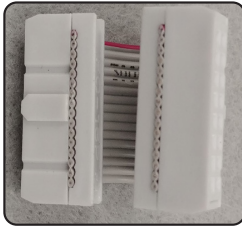


UNIVERSAL CONTROL BOARD  
**VE5801**

This equipment complies with Part 15 of the FCC rules. Operation is subject to the following conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

VE 5819

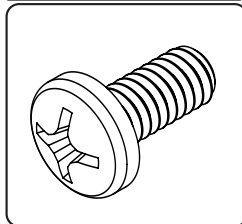
FCC LABEL  
**VE5819**



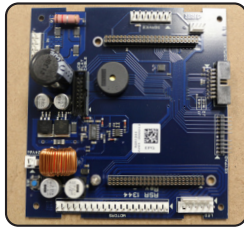
RIBBON CABLE  
**VE5834**



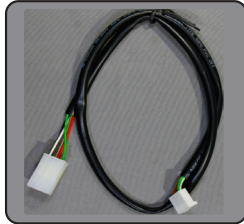
KIT INSTRUCTIONS  
**VE1021857**



4-40 X 5/16 PHIL SCREW  
**VE5778**



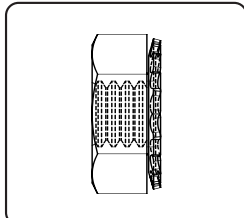
HARNESS BOARD  
**VE1021051**



MDB HARNESS  
**VE5816**



8-32 NUTS  
**VE7207K**



4-40 KEEPS LOCK NUTS  
**VE1865D**



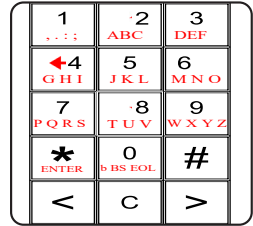
DROP SENSOR ASSEMBLY  
**VE1021185**



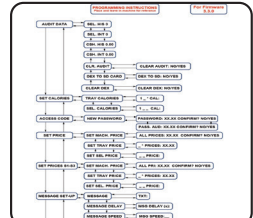
DISPLAY ASSEMBLY  
**VE1021746**



DEX HARNESS  
**VE5817**



KEYPAD LABEL  
**VE1022098**



PROGRAMMING GUIDE  
**VE1015697**

## REMOVE EXISTING PARTS

### ⚠ WARNING

To prevent personal injury and equipment damage, turn machine off and disconnect electrical cord from the wall outlet before installing UCB. Failure to do so could result in electrical shock.

Do not remove trays from cabinet. The cabinet could become unsteady and result in damage or personal injury.



- 1.1)** Unplug all harnesses from existing controller PCB.

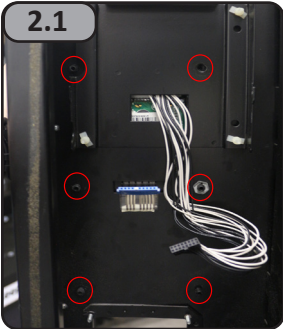


- 1.2)** Squeeze standoffs at each corner with needle nose pliers and pull up on existing controller PCB to remove.



- 1.3)** Apply tape to selection buttons to prevent buttons from falling out of the display frame

## LCD DISPLAY INSTALL



- 2.1)** Remove top six 1/2" speed nuts securing display / push button frame to door. Leave bottom two speed nuts in place. Save speed nuts for future use.

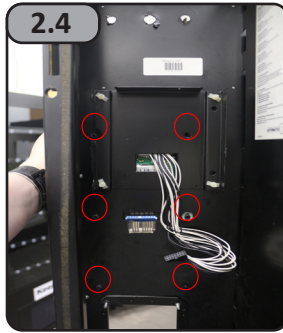


- 2.2)** Gently pull frame forward and remove existing display lens.



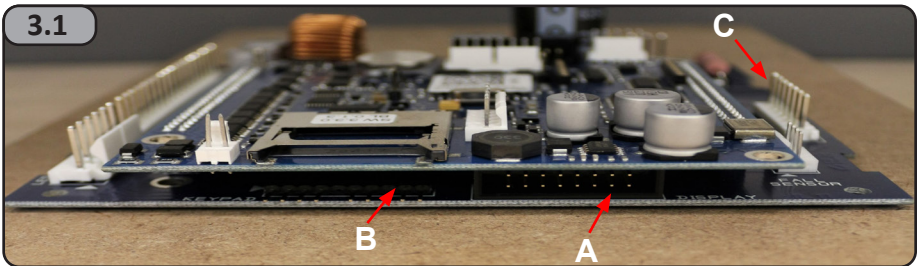
- 2.3)** Gently pull the display frame forward and secure the new display assembly (VE1021746) inside the frame. Be sure to route display harness through cutout in door.

## LCD DISPLAY INSTALL CONTINUED.....



- 2.4) Secure the top six 1/2" speed nuts securing the display / push button frame to door.

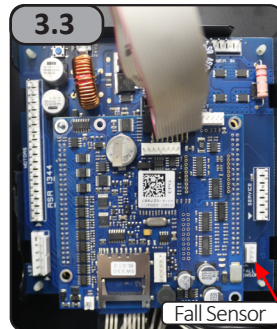
## CONNECT NEW UCB



- 3.1) Plug display harness (A) and OEM selection pad harness (B) into board before pressing UCB onto standoffs. Door switch harness (VE5853A) plugs into the service port (C).



- 3.2) Locate the 4 standoffs that you previously used to remove the OEM UCB. Secure the new UCB and Harness Board (VE1021051) onto the standoffs and ensure it is secure.

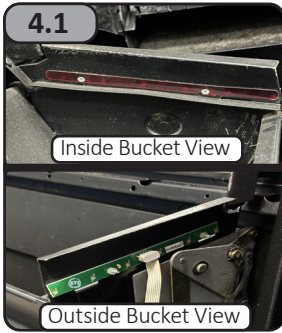


- 3.3) Locate the Drop sensor harness (VE5901AH) and plug the open end into the designated location on the UCB labeled "Fall Sensor".

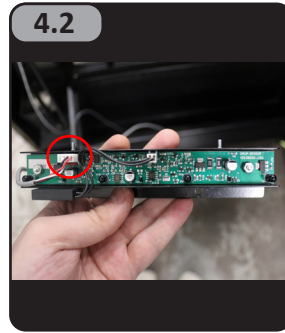
## NOTE

If you are installing Kit **VE5820SL** skip the next section and proceed to **INSTALL HARNESSING**

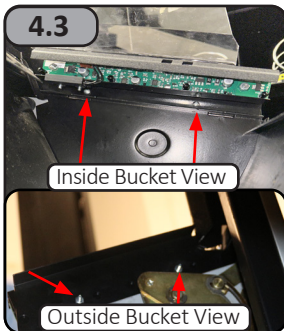
## INSTALL DROP SENSOR



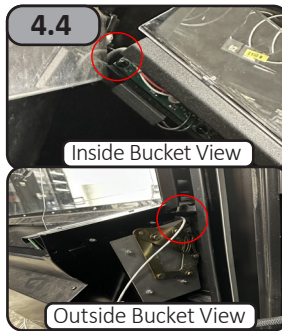
- 4.1)** Locate the OEM Drop Sensor shown above. Remove the two screws circled and save them for future install.



- 4.2)** Locate the drop sensor assembly (**VE1021185**) shown above. Plug the Drop Sensor Harness (**VE5901AH**) into the designated location indicated above if not done already.



- 4.3)** Insert (2) 4-40 x 5/16 PHIL screw (**VED5778**) into the designated holes on the inside of the bucket. Secure (2) 4-40 keps lock nuts (**VE1865D**) onto the screws in order to secure the bracket to the bucket.



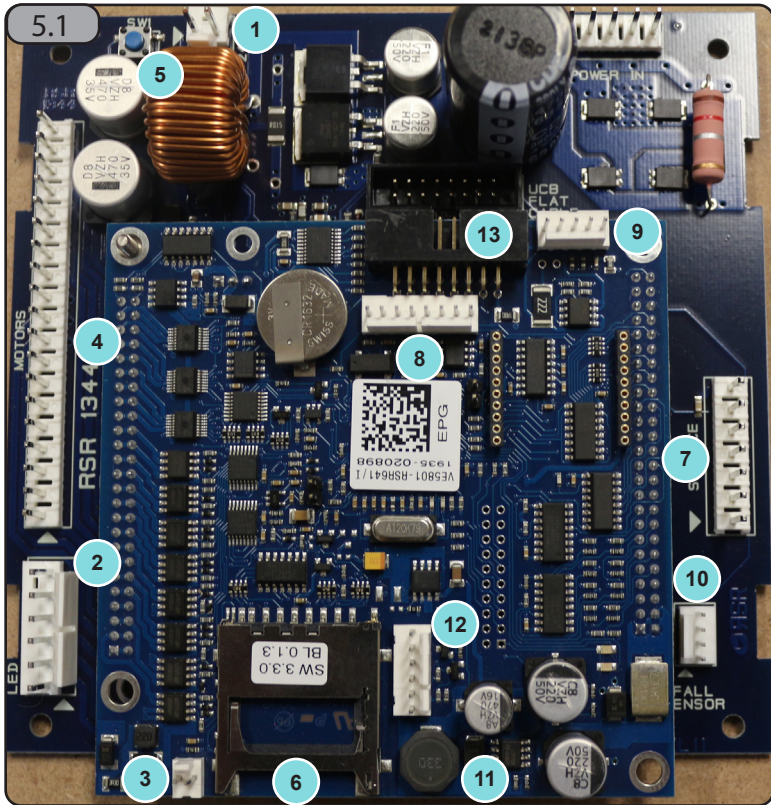
- 4.4)** Reference the above image. Feed the drop sensor harness (**VE5901AH**) through the hole circled above. Feed the harness from the inside of the bucket so that it exits outside.



- 4.5)** Route the harness as shown above. Ensure the cable clips are present in the correct locations shown above. If not please add them (**VE1021792**).

# INSTALL HARNESSING

5.1) Use the diagram below to connect all your harnessing to the UCB.



- |                        |   |                                      |
|------------------------|---|--------------------------------------|
| 1 24V DC Power Harness | 6 Keypad Ribbon Cable<br>(Under VE5801) | 11 Display Harness<br>(Under VE5801) |
| 2 LED Lights Harness   | 7 Door Switch Harness                   | 12 MDB Harness                       |
| 3 No Connection        | 8 Motion Sensor Harness                 | 13 Jumper Ribbon                     |
| 4 Motor Selections     | 9 Dex Harness                           |                                      |
| 5 Programming Button   | 10 Drop Sensor Harness                  |                                      |

**NOTE:** Keypad label (VE5877) is provided as a reference tool. Keep it with the machine as a guide to assist in programming navigation for UCB software



# WARRANTY INFORMATION

Limited Warranty and Disclaimer. VE warrants that the Products, including without limitation, their component Part(s), sold will be of the kind and quality described herein and will be free of defects in workmanship or material. This Warranty shall extend for the Warranty Period set forth below following the date of delivery of such Products to Buyer. VE MAKES NO WARRANTY, EXPRESS, IMPLIED (INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY AND FITNESS FOR INTENDED PURPOSES), OR STATUTORY, OTHER THAN THE FOREGOING EXPRESS WARRANTY.

| PRODUCT                            | WARRANTY PERIOD |
|------------------------------------|-----------------|
| <b>A. REPLACEMENT PARTS</b>        |                 |
| New Replacement Parts              | 90 DAYS         |
| UCB Kits                           | 1 YEAR          |
| Rowe Bill Changer Kits             | 1 YEAR          |
| CleanLife® LED Bulbs               | 5 YEARS         |
| New MEI/CPI Mechs and Validators   | 2 YEARS         |
| Reconditioned Mechs and Validators | 6 MONTHS        |
| Reconditioned Control Boards       | 6 MONTHS        |
| <b>B. REPAIR SERVICES</b>          |                 |
| Standard Warranty                  | 6 MONTHS        |
| Flat Rate Repairs                  | 1 YEAR          |
| <b>C. EQUIPMENT</b>                |                 |
| REVISION™ Door                     | 1 YEAR          |
| CURVE™ Door                        | 1 YEAR          |
| Café CURVE™ Door                   | 1 YEAR          |
| CURVE PANEL™ Door                  | 1 YEAR          |
| VE Kiosk™                          | 1 YEAR          |
| A-1 Remanufactured Machine         | 90 DAYS         |
| Clean, Checked and Working Machine | 30 DAYS         |
| As-Is Machine                      | NO WARRANTY     |
| New                                | MFG WARRANTY    |

a.) Failure of the Buyer to submit any claim hereunder within ten (10) days following expiration of the Warranty Period applicable to such Products shall be an admission by the Buyer and conclusive proof that such articles are in every respect as warranted and shall release VE from any and all claims for damage of loss sustained by the Buyer. In the event the Buyer timely submits a claim for breach of WARRANTY, the parties agree that, at VE's option, the Buyer's sole and exclusive remedies shall be the repair or replacement of the defective Products or Part(s) or a refund of the price of the defective Products or Part(s).

b.) The Buyer acknowledges that it alone has determined that the Products purchased hereunder shall suitably meet the requirements of its intended function. It is expressly understood that any technical advice or recommended operating practices furnished by VE with respect to the use of the Products is given without charge, and VE assumes no obligation or liability for the advice or recommended operating practices given, or results obtained, all such advice or recommended operating practices being given and accepted at the Buyer's risk.

c.) This Warranty does not apply to (i) electrical components, wiring, circuits and/or mechanical parts or assemblies damaged as a result of operating the Products at other than 115 volts, 60 Hertz current, (ii) Products damaged due to vandalism, fire, flood or other casualty, (iii) Products not maintained in accordance with the manufacturer's or VE's recommendations, and/or (iv) Products not serviced by VE authorized service personnel or which contain replacement parts not furnished by VE or its authorized service personnel.

For additional information please review the Terms and Conditions of Sale.