



# INSTALLATION INSTRUCTIONS

## FIELD INSTALLATION INSTRUCTIONS FOR KIT P/N 629097691

### Conversion Of Fruitista To Standard Overrun Viper

#### SAFETY INSTRUCTIONS

##### **WARNING:**

Before starting installation, read and understand all safety label and warnings on the machine. Also review and understand all safety instructions in the owners, installation and service manuals.

**Failure to comply could result in serious injury, death or damage to the equipment.**

#### QUALIFIED SERVICE PERSONNEL

##### **WARNING:**

Only trained and certified electrical, plumbing and refrigeration technicians should service this unit.

**All wiring and plumbing must conform to national and local codes. Failure to comply could result in serious injury, death or equipment damage.**

#### SAFETY PRECAUTIONS

This unit has been specifically designed to provide protection against personal injury. To ensure continued protection observe the following:

##### **WARNING:**

Disconnect power to the unit before servicing. Follow all lock out/tag out procedures established by the user. Verify all power is off to the unit before performing any work.

**Failure to comply could result in serious injury, death or damage to the equipment.**

##### **CAUTION:**

Always be sure to keep area around the unit clean and free of clutter.

**Failure to keep this area clean may result in injury or equipment damage.**

# INSTRUCTIONS

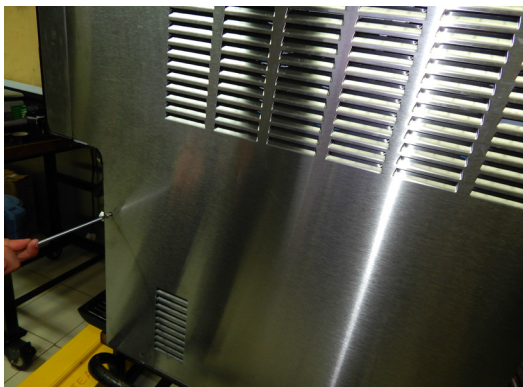
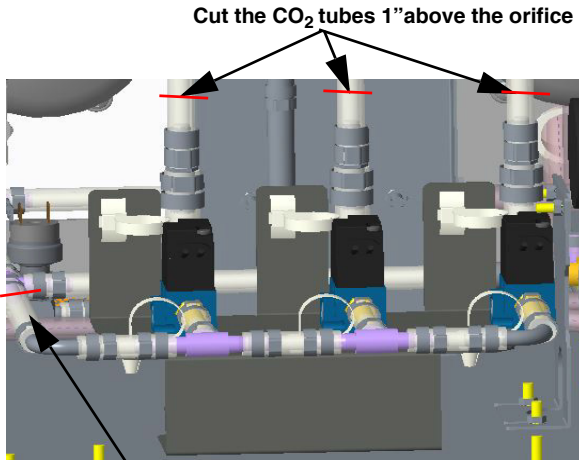

## Supplied Parts List:

**Table 1. Part List**

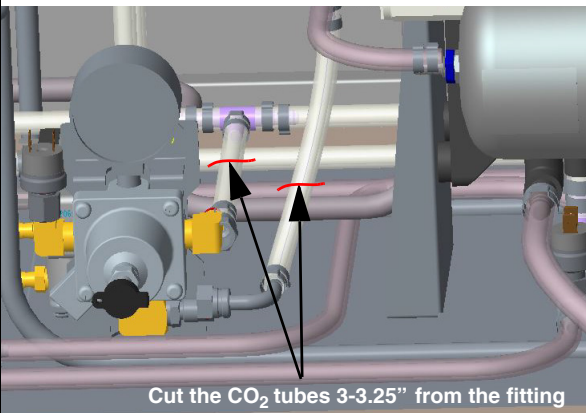
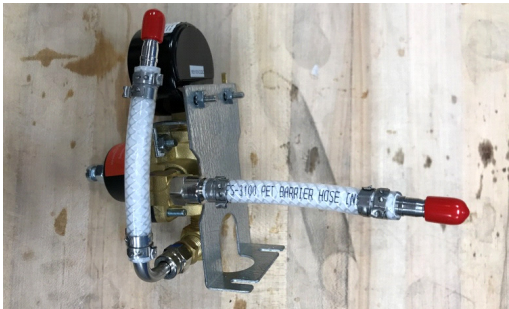
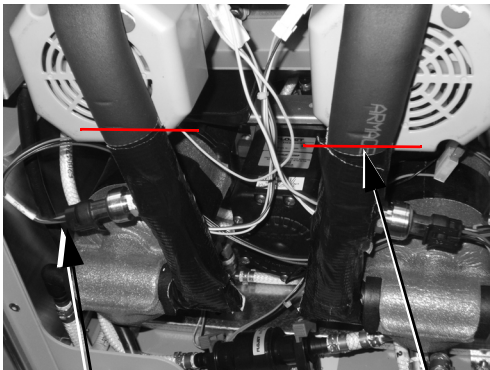

Sl. No.	Part No.	Description	Quantity
1	621260373INS	Manl Install Viper 2 Brl	1
2	621260373OPR	Manl Operator Viper 2 Brl	1
3	620314869-100	Board Vpr Ctl_main V3.x Software	1
4	620314871-100	Board Vpr Ctl_ui Board V3.x	1
5	620047160-200	Switch Pcba Software 0-50psi 4	1
6	620047350	Harn Press Sensor Packard To M	3
7	620057123	Harness Switch Connector Exten	3
8	620047351	Harn 24vac 1/4" Fast-ons To Am	1
9	620720833	Screw Se 08-32 Paph 16 Stzi	2
10	70076	Nut Hex 08-32 Stca Keps 1/8	2
11	620059157	Brkt Enclosure Pr.transducer P	1
12	620042848	Label Wiring Schematic 3 Barrel	1
13	629097339INS	Manl Instl Viper Transducer 3	1
14	163506000	Tie Cable 4.5" Nt-70	4
15	620712019	Grommet Flexible Black 0.085"	.21'
16	620068352	Co <sub>2</sub> Solenoid And Regulator Assembly	1
17	620068355	Expansion Tank Regulator Assembly	1
18	620068221	Barrel Fill Transducer Assembly	3
19	311908000	Clamp Oetiker 445open Stpls #11.3	20
20	312926000	Clamp 484open Stpls #12.3	10
21	77040200	Fitg-splicer 265tube Stn Stl	1
22	629097691INS	Manl Install Fruitista To Standard Conversion	1
23	90862	Label Syrup Generic S1	2
24	90863	Label Syrup Generic S2	2
25	90864	Label Syrup Generic S3	2
26	620062005	Bracket Drill hole template viper transducer	1
27	620071398	Label Low Overrun to Std Conversion	1

## INSTALLATION PROCEDURE


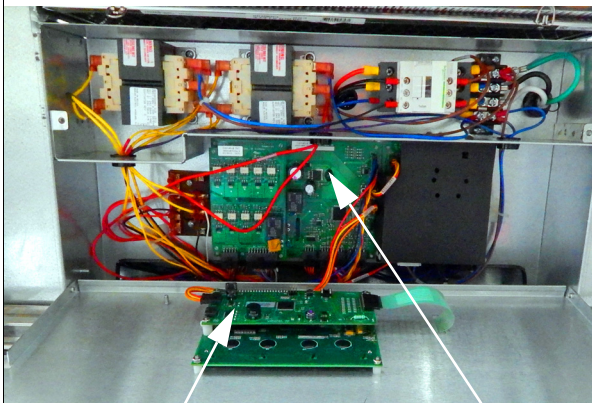

**Table 2. Installation Procedure**

Step	Action	Figure
1.	Prior to beginning the conversion, perform any scheduled preventative maintenance and ensure the unit is in good working order.	
2.	Disconnect power from the unit (unit may have to be pulled from wall to access electrical outlet).	
3.	Carefully move the unit away from the wall to gain access to the back (take caution not to bend or kink the syrup, CO <sub>2</sub> and water lines) of the unit.	
4.	Remove the all side panels, rear panel and splash panel of the unit to gain access.	 <p><b>FIGURE 28.</b></p>
5.	<p>Remove the CO<sub>2</sub> Solenoids</p> <p>A. To simplify reconnection later, label the wires leading to the solenoid valves from left to right 1 to 3.</p> <p>B. Disconnect the wires leading to the solenoid valves.</p> <p>C. On the CO<sub>2</sub> supply side (1 tube) cut the CO<sub>2</sub> tube 3"-3.25" from the fittings.</p> <p>D. One the solenoid side (3 tubes) cut the CO<sub>2</sub> tubes 1" above the orifice.</p> <p>E. Remove and keep the #8-32 keps nuts securing the solenoid bracket</p>	 <p><b>FIGURE 29.</b></p>
6.	<p>Install the CO<sub>2</sub> Solenoid and Regulator Assembly</p> <p>A. Install the CO<sub>2</sub> and Solenoid Regulator Assembly using #8-32 keps nuts.</p> <p>B. Connect the CO<sub>2</sub> supply tube (1) on the regulator side.</p> <p>C. Connect the CO<sub>2</sub> tubes (3) on the solenoid side.</p> <p>D. Connect the solenoid wires 1 to 3 from left to right.</p>	 <p><b>FIGURE 30.</b></p>

**Table 2. Installation Procedure**

7.	<p>Remove the Expansion Tank Regulator Assembly</p> <p>A. Cut the CO<sub>2</sub> tubes on both sides of the assembly 3"-3.25" from the fittings.</p> <p>B. Remove and keep the #8-32 keps nuts securing the regulator bracket.</p>	 <p>Cut the CO<sub>2</sub> tubes 3-3.25" from the fitting</p> <p><b>FIGURE 31.</b></p>
8.	<p>Install the New Expansion Tank Regulator Assembly</p> <p>A. Install the new Expansion Tank Regulator Assembly using #8-32 keps nuts.</p> <p>B. Connect the CO<sub>2</sub> tubes on both sides of the assembly.</p>	 <p><b>FIGURE 32.</b></p>
9.	<p>Remove the Barrel Fill Transducer Assembly</p> <p>A. Disconnect the barrel fill transducer wire harnesses.</p> <p>B. Carefully peel back insulation from barrel fill transducers.</p> <p>C. Disconnect barrel fill transducer tubes from expansion tanks.</p> <p>D. Cut barrel fill transducer tubes 1" above the reducer fittings.</p>	 <p>Transducer wire</p> <p>Cut tubes 1" above the reducer fittings</p> <p><b>FIGURE 33.</b></p>
10.	<p>Install the New Barrel Fill Transducer Assembly</p> <p>A. Connect the barrel fill transducer tubing.</p> <p>B. Connect the barrel fill transducer tubes to the expansion tanks</p> <p>C. Reinstall the insulation</p> <p>D. Connect the barrel fill transducer wire harnesses</p>	 <p><b>FIGURE 34.</b></p>

**Table 2. Installation Procedure**

11.	<p>Locate the barrel transducer board on the unit (620047160-100) and replace it with the new board PN 620047160-200. If the unit does not have a barrel pressure transducer board to swap, the installation kit for a new one is included (see 629097339INS). Edge guard is provided for routing wires through enclosure (if needed).</p>	 <p><b>FIGURE 35.</b></p>
12.	<p>Locate the main IO and UI boards (620314869-200 and 620314871-200) on the current unit. Replace these boards with the provided PN 620314869-100 and 620314871-100 respectively.</p>	 <p><b>620314871-100</b>      <b>620314869-100</b></p> <p><b>FIGURE 36.</b></p>
13.	<p>Close the control box cover, replace the side and rear panels, position the unit and connect power (take care not to bend or kink the syrup, CO<sub>2</sub> and water lines when positioning the unit).</p>	
14.	<p>After completing the conversion, attach label PN 620071398 on the E-box to the right of the display panel to note that this unit has been converted to standard overrun.</p> <p><b>Note: Write the date of service completion in the provided area on the label.</b></p>	 <p><b>FIGURE 37.</b></p> <p><b>620071398</b></p>
15.	<p>Follow instruction manual 621260373INS for initial Unit setup. Adjust settings for desired product. For approximately 45-55% overrun, set unit to viscosity 4, and CO<sub>2</sub> barrel regulators (in front of unit) to 30 psig. Some adjustments may be needed from product to product.</p>	