INSTALLATION INSTRUCTIONS

FIELD INSTALLATION INSTRUCTIONS FOR P/N 629097339 FOR 3-BARREL VIPER UNITS

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.

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.

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 the area around the unit clean and free of clutter.
Failure to keep this area clean may result in injury or equipment damage.

Kit includes:

Table 1. Parts List

Item No.	Part No.	Description	Quantity
1	50436	Bag,Poly	1
2	620059116	Transducer, Pressure 0-50 PSIG	3
3	620047160-200	Board PCB, transducer	1
4	620047350	Harness, transducer to board	3
5	620057123	Harness, adaptor (control harness to board PCB)	3
6	620047351	Harness, power (control box to board PCB)	1
7	620720833	Screw, 08-32, ½" long	2
8	70076	Nut, hex 08-32	2
9	620059157	Enclosure (with edge guard) for board	1
10	620042848	Label Wiring Schematic 3 Barrel Vpr	1
11	620807201	Bag bubble for board	1
12	629097339INS	Instruction Sheet	1
13	163506000	Tie cable 4.5" NT - 70	4
14	620712019	Grommet Flexible Black	0.21 Ft

The instructions in Table 2 should be used for installation of the 0-50 PSIG pressure transducer kit on 3-barrel Viper units.

Table 2. Installation Procedure

Step	Action
1	If the unit is commissioned, put all the barrels in PURGE mode and open the dispense valves to relieve the pressure and drain product until the level of the barrels are at the level of the relief valves. If the unit is not commissioned, go to step 4.
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_2 and water lines) of the unit.
4	Remove the left side of the unit and the back panel of the unit.
5	Locate the Barrel Fill Switches on the unit. The switches are located at the rear of the unit, below the barrel motors, as shown in Figure 1.

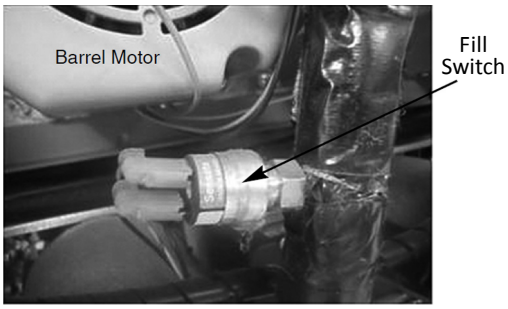

Figure 1.

6	Carefully disconnect the terminals from the switch using needle nose pliers, as shown in Figure 2.

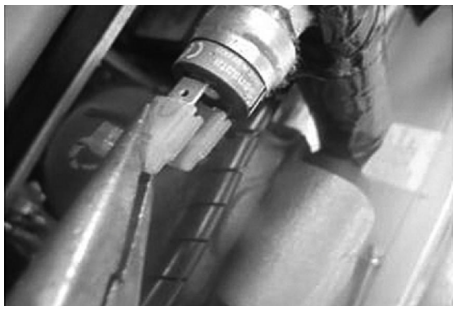

Figure 2.

7	Use a utility knife to break the line insulation, if necessary, to get access to the tee fitting for extra support during the disconnection process, as shown in Figure 3.

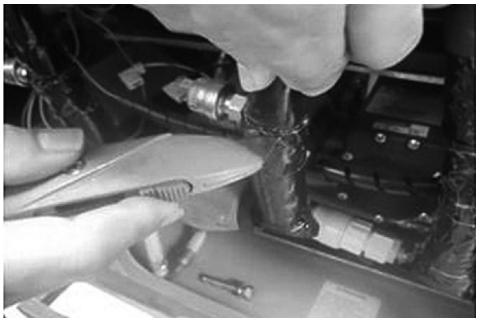

Figure 3.

Table 2. Installation Procedure

Step	Action
8	Disconnect the existing pressure switch, using one wrench to stabilize the tee connection and another to remove the switch by turning it counterclockwise, as shown in Figure 4.

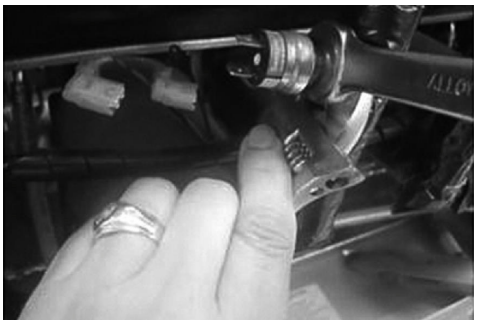

Figure 4.

Step	Action
9	Install the pressure transducer using a pair of wrenches. After hand starting the transducer, use one wrench to stabilize the tee connection and another wrench to tighten the switch, as shown in Figure 5. **NOTE: Apply NSF approved PTFE tape or PTFE paste to the threads of the switch before installation to ensure proper sealing.**

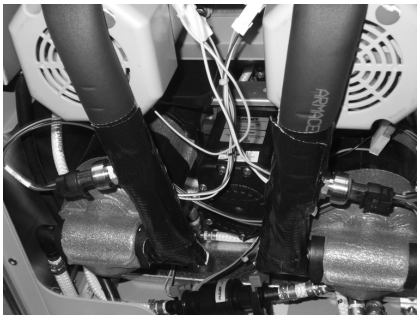

Figure 5

Step	Action
10	Use a 3/16" drill bit to drill two holes in the back left corner of the frame (See Figure 6). These holes are used to mount the transducer board. **NOTE: The frame already has holes, shown in Figure 6, that can be used as pilot holes.**

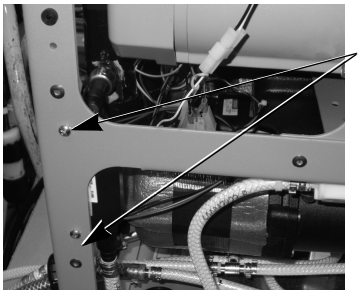

Figure 6.

Step	Action
11	Mount the transducer board to the frame (Figure 7) using the 2 screws and 2 nuts provided. Make sure the power (black and white wires) connections are at the top.

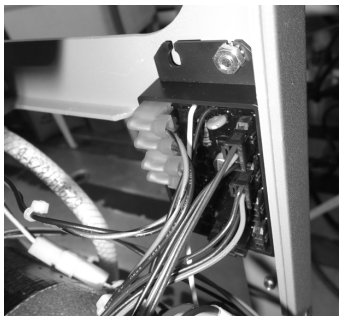

Figure 7.

Publication Number: 629097339INS

Table 2. Installation Procedure

Step	Action
12	Connect the transducers to the board with the wire harnesses provided (Figure 8). Make sure the harness connected to the transducer for barrel 1 (left barrel looking at the front of the unit) is also connected to the board at the connector labeled Barrel 1. Repeat the procedure for the other barrels.

Figure 8.

13	Connect the wire harness for the control system to the transducer board with the adaptor harness provided. Ensure the adaptor harness for barrel 1 is connected as follows: 3/16” black spade to black terminal of control harness and ¼” black terminal to spade labeled BLACK next to PROBE 1 connector. Also, 3/16” black/orange spade to black/orange terminal of control harness and ¼” black/orange terminal to ¼” male spade labeled PROBE 1. Repeat the procedure for the other barrels. The adapters are shown in Figure 14.

Figure 9.

14	Install the protective sheet metal enclosure over the board and tighten the two nuts. Make sure all the wire harnesses are routed through the bottom opening (edge guard protected) of the enclosure, as shown in Figure 10.

Figure 10.

15	Open the control box panel and feed the board power wire harness (black and white) provided from the control box over the foam pack to the transducer board location, as shown in Figure 11.

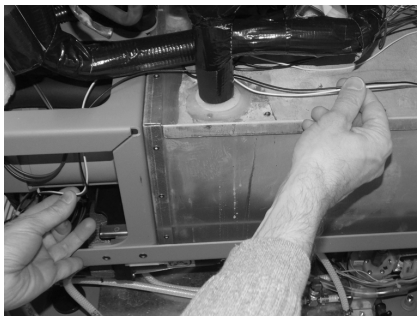

Figure 11.

Table 2. Installation Procedure

Step	Action
16	Connect the power wire harness (black and white) from the connector on the board to the control box at the terminal block location shown in Figure 12. **NOTE: The power wire harness supplies 24 VAC from the control box transformer to the transducer board.**

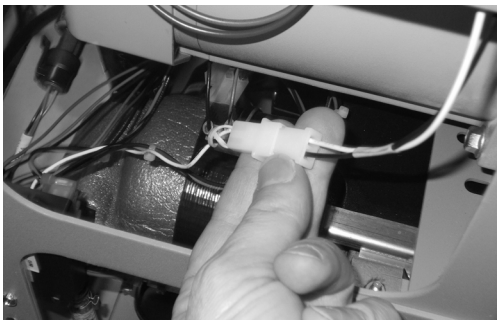

Figure 12.

Step	Action
17	Attach the wiring label provided over the existing label on the back side of the merchandiser, as shown in Figure 13.

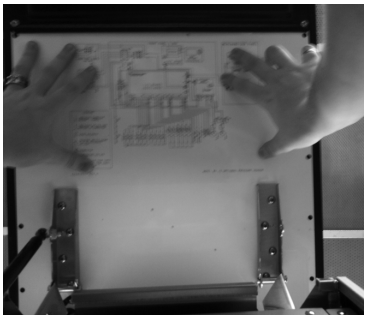

Figure 13.

18 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, CO2 and water lines when positioning the unit).

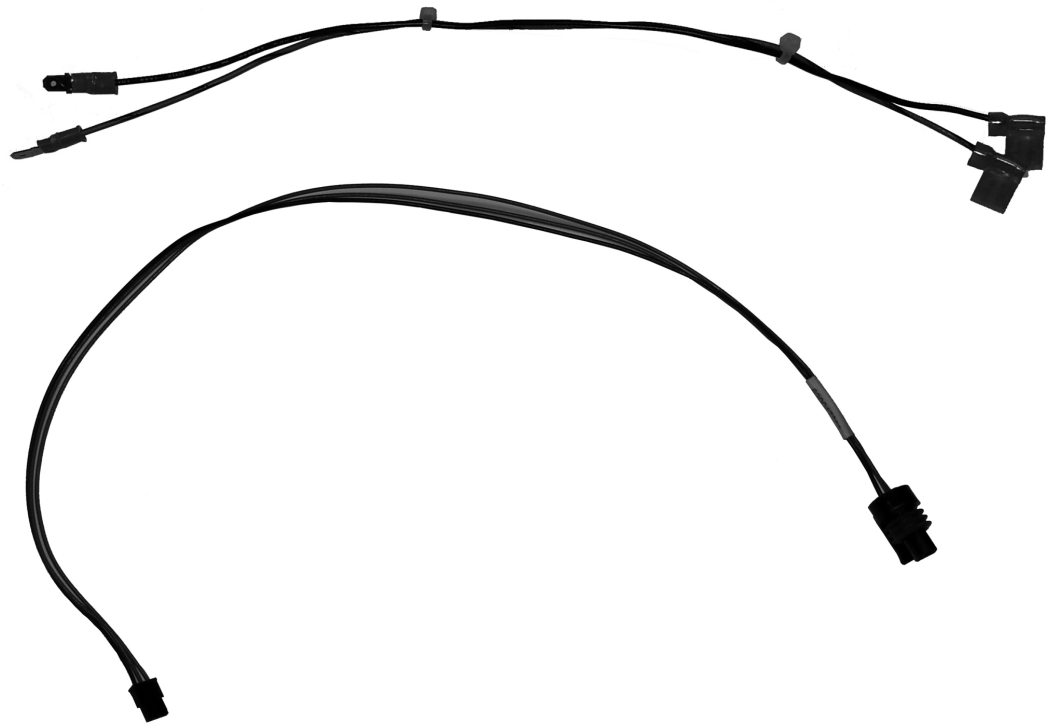

Figure 14.

Publication Number: 629097339INS