

Supplement to 1590050: PosiVend™ Operation

This document will explain the operation and usage of the PosiVend™ guaranteed product delivery system for GPL spiral vendors. A series of “electric eyes” is mounted on the delivery pan. When a product drops into the delivery pan it breaks the beam of the “electric eye”, telling the controller that a product has been delivered. If a selection is made and the spiral makes one complete revolution without delivering a product, the controller will command the spiral to turn until a product is delivered, up to three times. After that, the customer’s money is refunded.

Your PosiVend™ guaranteed product delivery system is completely factory set with no user programmable functions. However, some additional diagnostic messages may appear if there is a malfunction in the system.

If the PosiVend™ PCB is not working properly, a main delivery area is blocked, or the PosiVend™ PCB is not detected by the controller, all PosiVend™ functions are ignored and the merchandiser reverts to normal home switch operation.

Note:

A blocked gum & mint PosiVend™ sensor does not affect the status of PosiVend™ for snack tray selections.

A blocked gum & mint PosiVend™ sensor will cause the merchandiser to revert to home switch operation for food module selections.

Motor Operation Under PosiVend™

If PosiVend™ is working the motor will stop at the home switch position, if the spiral has gone less than one revolution without passing home when the product is detected.

If PosiVend™ is working the motor will stop immediately when a product is detected provided the motor has gone past home at least one time. The motor will temporarily pause at each home switch position before continuing (See can and gum & mint exceptions.)

If PosiVend™ is working but product delivery is not detected, the motor will stop the third time it enters the home switch position. The vend fails and the credit is returned.

Gum & Mint vends are not complete until the product is detected, then leaves the PosiVend™ sensor path. This protects against products jamming in the gum & mint delivery area.

Can selections will attempt only one vend before failing if product is not detected.

Any selection that fails under PosiVend™ will be put out of service and will generate an **EMPTY** diagnostic as described below. These out of service conditions apply even if PosiVend™ subsequently becomes non-operational. These out of service conditions are automatically reset at the time of service, based upon the closure of the main door.

If ten selections go **EMPTY**, PosiVend™ will enter its anti-jackpot mode and all motors revert to home switch operation until the main door is opened and closed.

PosiVend™ Diagnostics

The following diagnostics may appear in the diagnostic list:

POSIVD x if PosiVend™ detects a blockage of LED "x" counted from the front of the machine. "x" = "H" for the gum & mint sensor. Press **H** to see the real-time calibration values

POSIVDCAL if PosiVend™ detects a calibration error. Press **H** to see the real-time calibration values. The display will show the real-time calibration values for each of the 10 PosiVend™ zones and are generally grouped in pairs corresponding to the emitter under test. The calibration determines the minimum amount of intensity from the PosiVend™ infrared emitters that are needed for detection. A safety margin of 3 is added and displayed. Interpret "A" - "F" as the numbers "10" - "15".

1. A value of "0" indicates the detector has shorted, and is a fatal error;
2. A value of "1" indicates the detector cannot see the emitter within the allowable calibration values;
3. Values "2" through "9" are normal;
4. Values above "9" may indicate dirty or misaligned sensors.
5. Values that change by more than a magnitude of 2 may indicate mechanical problems with the PosiVend™ alignment or dirty sensors.

EMPTY aa is shown when PosiVend™ did not detect product delivery from selection "aa". This diagnostic will be cleared when the main door closes. Those selections will be returned to service. This data is an indication of the number of PosiVend™ failures which have returned the customer's credit.

POSIVDOFFFORANTLJP is shown if 10 selections go **EMPTY** since the last main door closure. PosiVend™ is disabled and operation reverts to home switches until the main door closes.