

5.0 TRAY ADJUSTMENT AND CONFIGURATION

The trays in AMS Sensit II vendors are highly configurable. Practically any combination of wide and narrow columns can be set up on a tray. Before changing the configuration of your trays, make sure to order the parts you will need, such as new helixes, dividers or additional motors.

5.1 SNACK, CANDY, AND FOOD TRAY

5.1.1 Removal

1. To remove the tray, start with the tray pushed to its rearmost position. Lift the back of the tray up and pull the tray forward about ten inches. Reposition your hands to grasp the tray at its sides and slide the tray out. If the tray is spaced close to the tray above, it may be helpful to raise the front of the tray as you pull it free.
3. When removing a tray, it is not necessary to disconnect the tray harness. The harness is long enough that it will allow a removed tray to be placed on the floor without having to be disconnected.

5.1.2 Installation

1. Before installing the tray, make sure the black plastic covers are on the tabs on each side at the back of the tray. To install the tray, slide the tray all the way to the rear. It will automatically drop into position. Make sure the harness slack is draped to the outside of the rail.

5.2 BOTTLE TRAY

5.2.1 Removal

1. Disconnect the harness inside the right column in the cabinet. The connections are labeled corresponding to the letter of the tray (A-F). Push the connector out through the hole in the back of the column.
2. Pull the tray out until it stops. Carefully pull the harness up on top of the tray.
3. Locate the slide rail release levers on both sides of the tray. There should be an arrow indicating which way to push to release the levers. Note that the lever direction on the right side is opposite the direction on the left side. Push the release levers in the directions indicated and simultaneously pull on the tray.
4. Be sure to push the extended slide rails back into the cabinet before closing the door. Otherwise the slides may be damaged.

5.2.2 Installation:

CAUTION: An incorrectly installed tray can disengage from the rails and fall when extended! It is recommended that installation be performed by at least two people!

1. Fully extend the slide rails in the cabinet and hold in position.
2. Move the ball carriers out to the ends of the slide rails (refer to Figure 5.1) and hold in position.
3. Route the tray harness over the rail in the cabinet and into the right column. Connect the tray harness to the appropriate receptacle.
4. Align the rails on the sides of the tray with the extended slide rails and insert. Continue to hold the ball carriers and slide rails in place until the rails on the tray are firmly engaged in the ball carriers.
5. Push the tray in completely to lock the rails together.
6. Carefully extend the tray to check for proper installation. Support the tray to prevent falling if the rails are not properly engaged. Visually inspect the rails, and gently pull the front of the tray side to side to make sure the rails will not disengage.

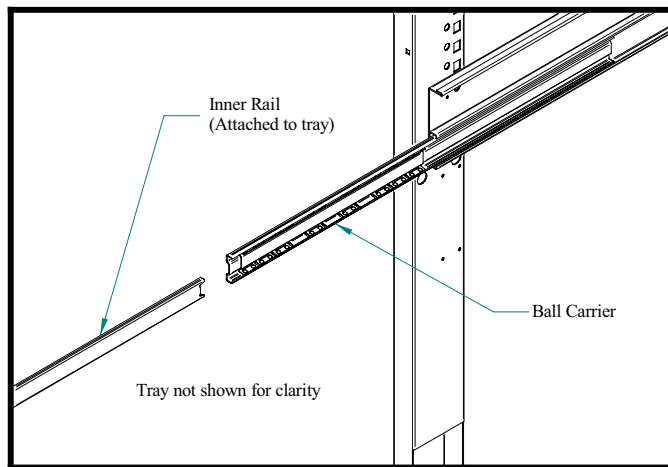


Figure 5.1 Bottle Tray Rails

5.3 TRAY VERTICAL POSITIONS

The trays can be adjusted to different vertical positions in 1 inch increments. To reposition a tray use the following steps

5.3.1 Removal

1. Remove the tray for access to the support rails.
2. Remove the screw located at the front of each rail.
3. The front of the rail can now be lifted upward and disengaged from the vertical column.
4. Pull forward to disengage the rail from the slots at the back of the cabinet.
5. Use these same steps for the other side.

5.3.2 Installation

1. To reinstall the rail in the new position, locate the rear “T” slots that will be used.
2. Then push the two tabs at the back of the rail into the appropriate slots.
3. Engage the hooked tabs at the front of the rail into the appropriate rectangular holes and pull down.
4. Make sure the rail is level.
5. Align the round hole in the rail with the hole in the column and replace the screw.
6. Use these same steps for the other side.
7. Reinstall the tray, making sure the harness is routed over the top of the rail and all slack is draped to the outside of the rail.

5.4 TRAY COLUMN POSITIONS

Bottle tray column dividers are fastened in place and cannot be adjusted. The tray columns used for snacks, candy and food can be configured by the user to 5 to 10 columns wide (for 39” cabinets) or 4 to 8 columns wide (for 35” cabinets) for these trays. Typically the vend columns are set to single (2.66”) or double (5.32”) width, to be used with the standard small or large helixes, respectively. Single and double width columns can be configured in any arrangement on the tray by following the procedure below.

Plan your tray arrangement before beginning to determine which extra parts may be required. Contact your distributor to order the necessary parts.

1. Disconnect the harness and remove the tray. Place the tray on a flat, stable work surface.
2. Reposition, remove, or add tray dividers in the desired locations. To remove the divider, push rearward then lift. Reverse the procedure to reinstall.
3. It may be necessary to remove a motor and helix in order to install some dividers. Pull forward on the helix to remove it from the motor. Press down and rearward on the top motor tab to remove the motor from the tray.
4. Reposition the motors to the center of each vend column, using the upper mounting position for the large helix and the lower position for the small helix. It may be easiest to disconnect the motors from the harness first.
5. The harness has 8 or 10 sets of motor connections depending on the model. The first set of connections (at the end of the harness farthest away from the connector) is position 1, followed by 2, 3, and so on. The last set (nearest to the wire connector) is position 8 (35” cabinets) or 0 (39” cabinets). Starting at the left side of the tray, attach the harness connectors to the motors in order. For double columns, use the even numbered connection and disregard the odd numbered connection. (Example: If the first column on the left is double width, disregard position 1 and attach the connectors for position 2). Each set of connectors has a wide and a narrow connector, corresponding to a wide and a narrow tab on the back of the motor.
6. Place the correct label in front of each column, according to the motor connections used.
7. Reconnect the harness, routing it over the rail and through the back of the column.
8. Reinstall the tray.

9. After changing the tray configuration, it will be necessary to reconfigure the motor matrix. Refer to Section 4.2.6 Configuring Motors.

5.5 CHANGING DIVIDERS

1. To remove, push rearward on the divider as far as it will go, then lift it up and out of the tray.
2. Reverse the removal procedure to reinstall.

5.6 CHANGING HELIXES

Each helix is snapped into an adapter which snaps into the column motor.

To remove a helix from the column, grasp the helix about one “turn” away from the motor, and pull straight out sharply.

Do not remove the helix adapter if the helix is going to be reinstalled.

To install a helix, insert the end of the adapter into the motor, and push the helix back towards the motor until the adapter snaps into place

5.7 HELIX ADAPTER

1. To remove, twist the adapter to free the mounting leg from the locking tab.
2. Reverse the removal procedure to reinstall.

5.8 HELIX EJECTOR

The ejector’s function is to cause the product to fall sooner, and therefore stop the helix sooner. This will help retain the next product in the helix coil, especially if they are ‘difficult’ products

1. The helix ejector is pulled off and pressed on the spiral by hand.
2. The ejector is typically positioned half a coil or less from the end of the spiral.
3. The “fin” shaped portion is angled towards the front of the tray.
4. The best position and angle for the ejector is determined by test vending products.

5.9 HELIX ALIGNMENT DEVICE

The helix alignment device is installed against the left side of the large helixes to keep them centered in their columns.

1. To remove, grasp the front of the helix alignment device with pliers and pull or pry upward. Take care not to lose the plastic mounting clips.
2. Reinstall by pressing the plastic mounting clips back into the mounting holes. Note that the mounting flange goes toward the spiral.

5.10 MOTOR POSITIONS

Motor position can be changed sideways for different columns, and there are two mounting positions on the snack tray. The lower and upper positions are used for the small and large spirals, respectively.

1. To remove, press down and rearward on the top mounting tab, then pull the lower mounting legs out of the mounting slots.
2. Reverse the removal procedure to reinstall.

5.11 BOTTLE ALIGNMENT DEVICE

The bottle alignment device will, in some cases, inhibit the rotation of bottles as they are vended. It has two uneven-length legs. It can be installed with either leg on top, depending on which works best.

1. To remove the bottle alignment device, remove the screws from the underside of the tray that hold it in place.
2. To reinstall, reverse the removal procedure.

5.12 BOTTLE TIPPER BAR

The bottle tipper bar is typically used with carbonated beverage bottles. The bottles have a dimpled bottom which permits them to straddle the spiral and stand upright. The tipper bar restrains the top of the bottle so that it falls bottom first, rather than tumbling off the tray.

1. To remove, bow the bar until one end can be pulled free from the support bracket. Take care not to lose the plastic bushings in the supports.
2. To reinstall, reverse the removal procedure.

5.13 AVOIDING PRODUCT HANG-UPS

Avoid large products, such as chips, from 'hanging-up' between the tray and the glass by loading them 'left corner first' into the helix. The bottom left corner of the bag should be in front of the helix to let the helix push the bottom out first (refer to Figure 5.2). An incorrect loading may cause the bag to fall top first, which could lead to a hang-up. Loading 'left corner first' prevents the product from falling top first.

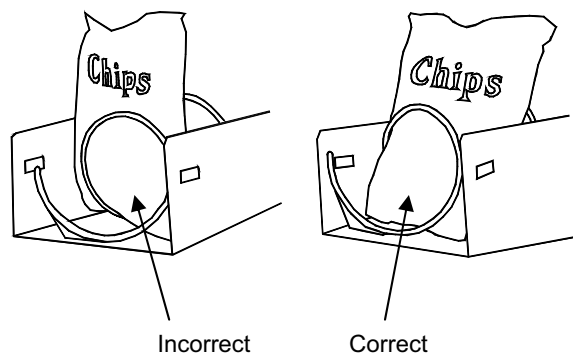


Figure 5.2 Large Bag Vending

5.14 TALL PRODUCT VENDING

Place tall, narrow products in a column with a candy pusher bar. Typically these are installed in columns 9 and 0 on the candy trays. Rotate the bar upward or downward to the desired position. It should hold the product upright, but not pinch or bind the product.

5.15 CANDY PUSHER BAR INSTALLATION

The candy pusher bar is an adjustable bar that mounts to any tray divider to keep tall candies from falling

sideways (refer to Figure 5.3). Four pusher bars are provided with the standard glass front vendor.

1. Snap the pusher bar into the retainer.
2. Rotate the pusher bar to accommodate the product.

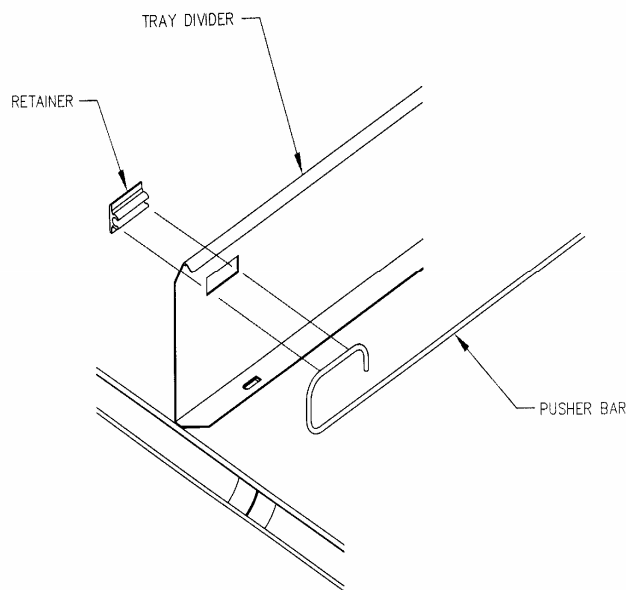


Figure 5.3 Pusher Bar Installation

5.16 1.5" HELIX TRAY ADJUSTMENT AND LOADING

5.16.1 General Information

Some vendors are equipped with a 1.5" Helix Tray designed to vend small candy, gum and mint packs. The 1.5" Helix Tray can also be ordered separately for new installations (refer to Section 11 for installation kits).

5.16.2 TRAY ADJUSTMENT AND LOADING

As delivered from the factory there are two wide columns for products such as Life Savers, and two narrow columns for products such as gum or Certs.

However, the tray may be reconfigured to fit the product being vended by adjusting the position of the column dividers (refer to Figure 5.4). The dividers, being adjustable, change the column width.

Adjust the divider position by removing the screw at the rear of the divider. Pull on the divider towards the front of the tray to loosen it. Reposition the divider by inserting the mounting tabs into the appropriate slots. Push the divider down and to the rear to tighten it into place. Reinstall the screw at the rear of the divider.

Test the column for proper vending.

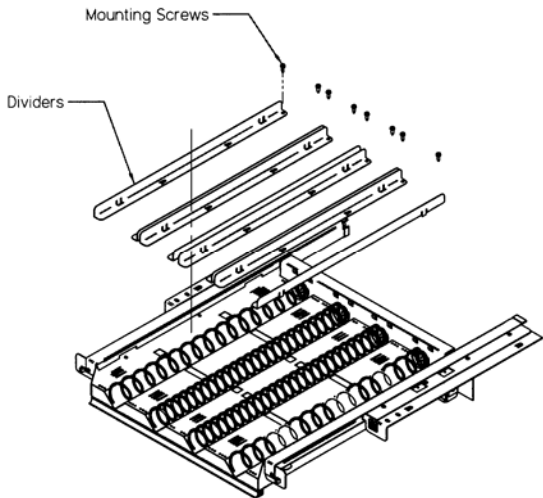


Figure 5.4 1.5" HELIX TRAY