

Vista 2-NT / Vista 3 & Suprema

Bill Acceptor Installation Instructions



BILL ACCEPTOR INSTALLATION INSTRUCTIONS FOR VISTA AND SUPREMA MODELS

The following instructions will guide you through the installation of a Coinco BA30B or MAG50B dollar bill acceptor onto a Vista 2-NT, Vista 3 or Suprema coffee maker. The VKI kit consists of the bill acceptor housing (box), which also has three bins for condiments, a power adapter harness, and a template. The bill acceptor itself, the 9340L Coinco and the interface harness are not included. These items need to be purchased from Coinco - please contact your local Coin Acceptors Inc. branch/service center for more information. A list of Coinco branches and service centers has been provided on the last page of this document.

Parts included in the VKI kit (A410149),	Parts required from Coinco,
1 - Bill Acceptor Housing (box) 3 - Condiment Bins – M034122 (12/box) 1 - Power Adapter Harness – G210249 1 – Template – K021629C2 2 - Strain Relief (M019698) and Mounting Brackets (K011019C2) 1 - Box-to-machine mounting bracket – K021628C2	1 - 9340-L Coin Changer 1 - BA30B or MAG50B Bill Acceptor 1 - Interface Harness - Coinco p/n 406818-1 or equivalent
All the required fasteners	

SECTION I - PREPARING THE MACHINE TO ACCOMMODATE THE BILL ACCEPTOR

For older units that do not have knock-outs in the metal, it is necessary to make an opening in the sheet metal at the rear of the machine. This opening allows you to pass the interface harness that needs to be connected to the secondary harness on the 9340L Coinco changer, as well as the power harness for the BA30B or MAG50B bill acceptor.

NOTE: On newer Vista models and all Suprema models, simply place a screwdriver on the edge of the knock-out and strike the screwdriver with a hammer. This will loosen the knock-out, allowing you to remove it with a pair of pliers.

1. Using the template, mark the locations to make the holes.

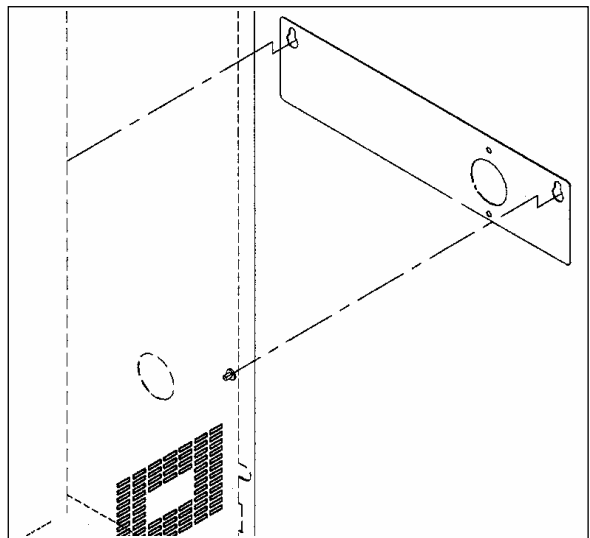
- a) Install the template onto the **lower** two auxiliary water tank posts located at the rear of the coffee maker. Make certain that the hole to be made is on the water tank side of the coffee maker (left side if looking at the back of the unit).

NOTE: Make certain the template is installed properly before proceeding. If the template is installed backwards, a hole will be drilled into the rear electronic circuit board.

- b) Make an outline of the three holes on the back of the machine (one large hole, and two small ones - one above and one below the large hole).
- c) Remove the template.

2. Drill the necessary holes.

- a) For the two smaller markings use a drill bit, no larger than 3/8", and drill the two holes.
- b) Drill another hole in the center of the marking for the larger hole.
- c) Using a 1½" hole saw attachment, drill the larger hole.



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SECTION II - ELECTRICAL CONNECTIONS INSIDE VISTA 3 COFFEE MAKER

It is now necessary to make all the required electrical connections inside the coffee maker. The bill acceptor's power needs to be taken from the Vista 3 rear exhaust fan circuit, by using the included power adapter harness.

1. **Disconnect the machine's service cord from the electrical outlet.**
2. **Remove the access panel above the water tank.**
3. **Connect the power adapter harness (figure 1).**
 - a) Slide the water tank forward so that the 3-pin inline connector on the rear exhaust fan harness can be accessed.
 - b) Disconnect the 3-pin inline connector on the exhaust fan harness.
 - c) Connect one end of the power adapter harness to the 3-pin connector going to the fan.
 - d) Connect the other end of the power adapter harness into the 3-pin connector coming from the exhaust fan harness.

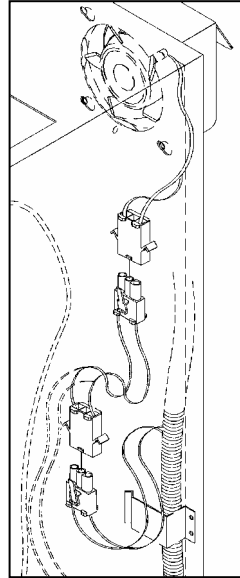


Figure 1

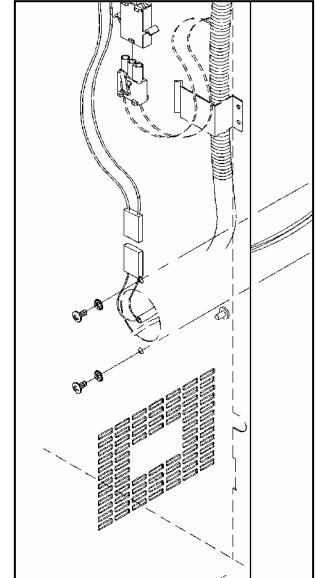


Figure 2

4. **Connect the Coinco interface harness.**
 - a) One end of the Coinco interface harness has one connector (which connects to the bill acceptor control board), and two different harnesses come out of this one connector. Insert both ends of these two harnesses through the large hole that was made at the back of the machine.
 - b) Install the 9340 Coinco coin changer onto the front door of the machine. This changer is exactly the same as a 9300 Coinco, but is equipped with a secondary harness for the bill acceptor.
 - c) Pass the harness with the large 5-pin connector to the front door of the machine, and connect it to the secondary harness on the 9340L coin changer.
 - d) The other harness is equipped with two 3-pin connectors. Only one of these can be connected. Connect it to the smaller 3-pin inline connector on the power adapter harness that was just installed (figure 2).

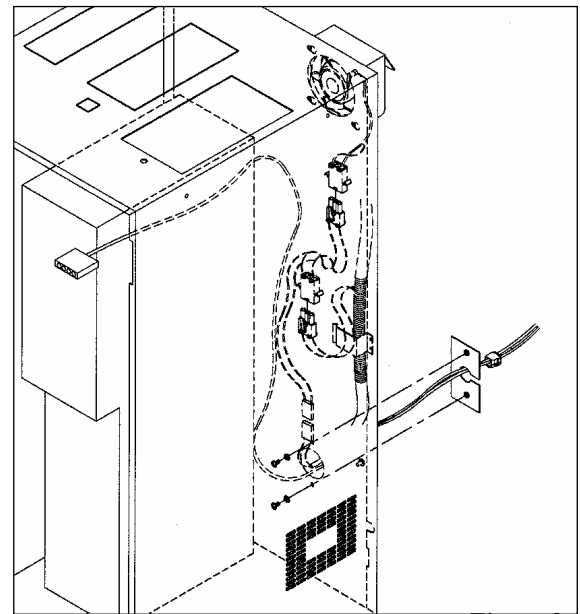


Figure 3

5. **Add the strain relief to the back of the coffee maker.**
 - a) Add a strain relief over the harnesses entering the rear of the machine, and compress and clip the strain relief onto its mounting bracket.
 - b) Secure the mounting plate using the two screws provided. The plate goes on the outside rear panel of the machine, and the screws are passed from the inside (figure 3).

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SECTION III - ASSEMBLY AND ELECTRICAL CONNECTIONS OF THE BILL ACCEPTOR HOUSING (BOX)

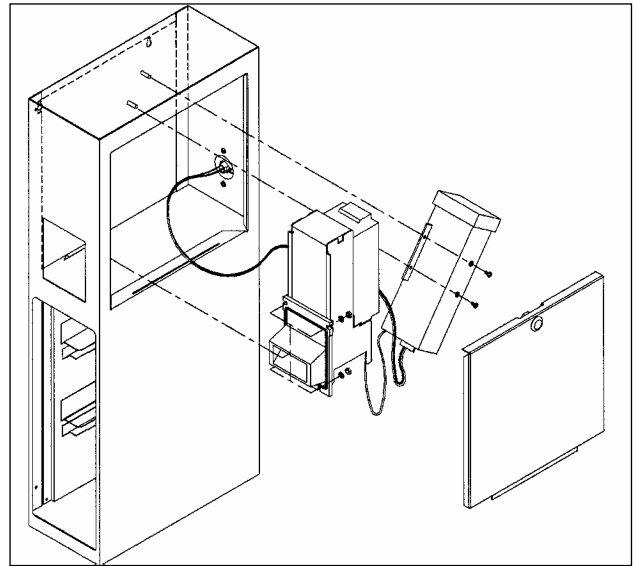
When you receive the bill acceptor, you will notice an electronic control circuit board mounted on the left side of the acceptor (the control board is encased in a tinted plastic housing). This control board and housing assembly is secured onto the bill acceptor by two clips. Unlock the clips to remove the control board housing from the bill acceptor. At this point, they should only be connected by a wiring harness. Separating the two is necessary so that the bill acceptor can fit properly in the box. Once this is done, follow the procedure outlined below.

1. Install the bill acceptor into the box.

- a) Slide the acceptor over the four weld studs around the opening on the front of the box.
- b) Secure it in place by using a washer and a hex nut on each of the weld studs.

2. Install the bill acceptor control board & housing into the box.

- a) There are two weld studs located on the left side panel inside the box.
- b) Align the board & housing assembly, and secure it in place using a washer and a screw on each of the weld studs.
- c) At this point, both the bill acceptor and the board & housing assembly should be installed, with a small wiring harness connecting the two together.



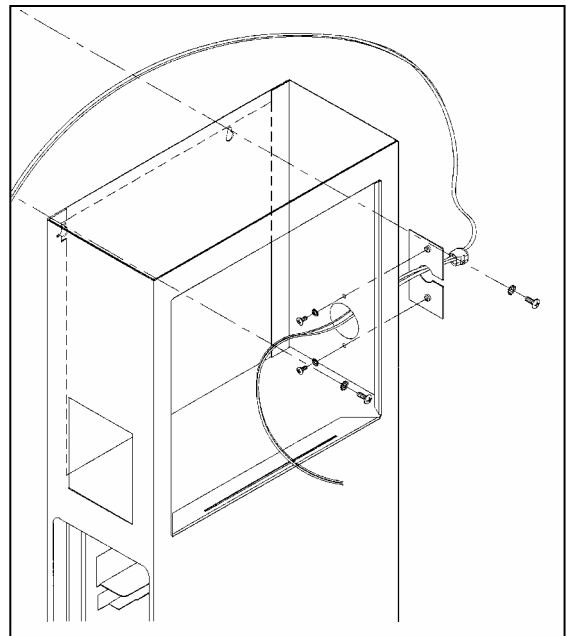
3. Add two screws to the clinch studs on the top right side of the machine. Do not tighten these screws as the bill acceptor box needs to be mounted on the screws beforehand. Tighten these screws only after the bill acceptor box has been installed onto the side.

4. Disconnect the service cord from the outlet before proceeding with any electrical connections.

5. Pass the end of the bill acceptor harness through the back of the bill acceptor box and connect it to the large connector on the bill acceptor control board.

6. Add the strain relief to the back of the bill acceptor box.

- a) Add a strain relief over the harnesses entering the rear of the bill acceptor box, and compress and clip the strain relief onto its mounting bracket.
- b) Secure the mounting plate using the two screws provided. The plate goes on the outside rear panel of the bill acceptor box, and the screws are passed from the inside (as illustrated on the right).

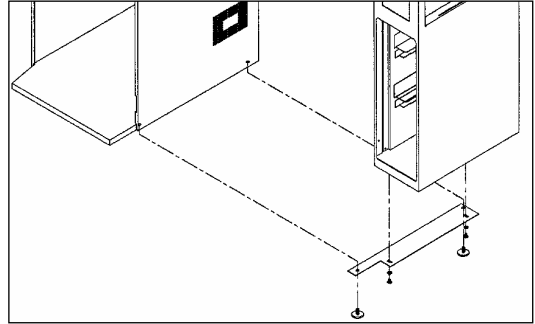


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SECTION IV - MOUNT THE COMPLETE BILL ACCEPTOR ASSEMBLY TO THE MACHINE

1. Install the lower mounting plate onto the bottom of the machine.

- a) Remove the two levelers on the bottom right of the machine.
- b) Align the holes on the mounting plate with the leveler holes on the bottom of the machine.
- c) Re-insert the levelers over the mounting plate to secure the plate to the bottom of the machine.



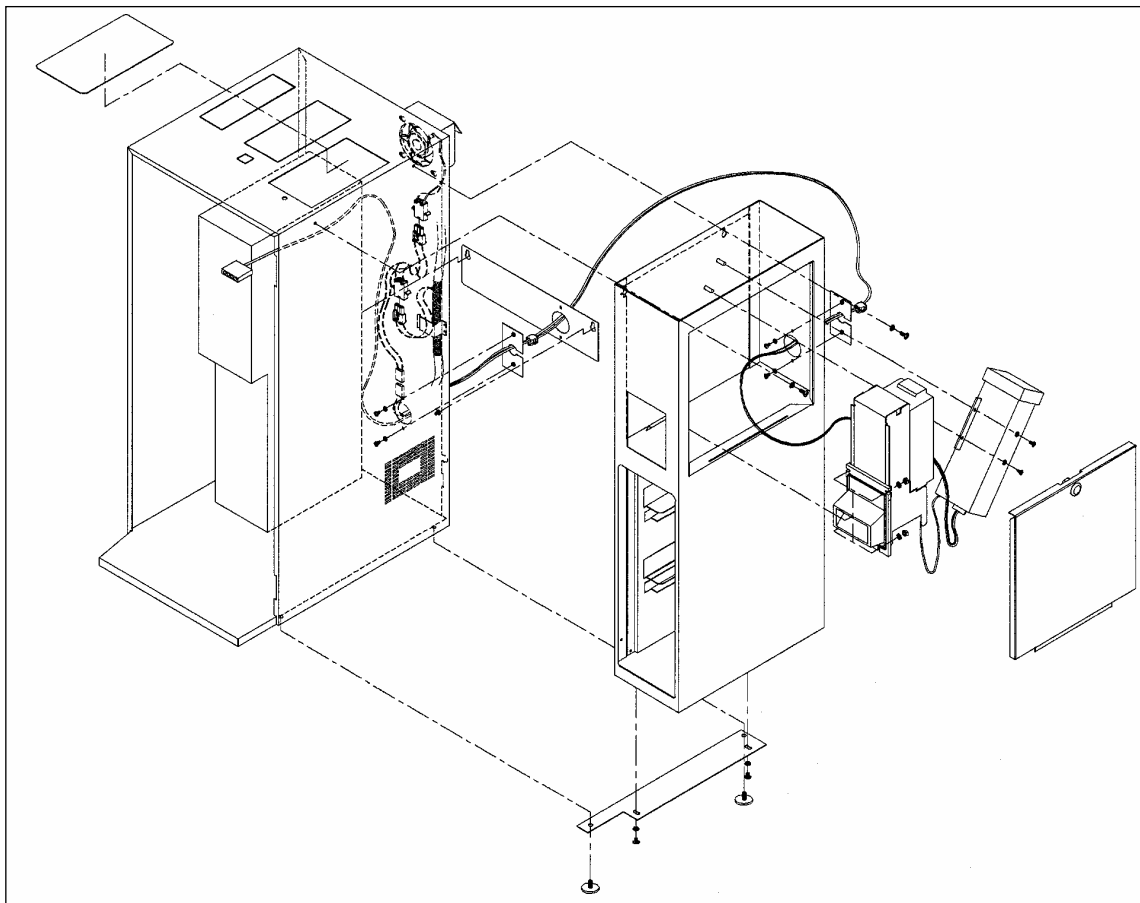
2. Secure the top of the bill acceptor box assembly to the machine.

- a) Add two screws into the clinch nuts on the top right side of the machine. Do not tighten the screws just yet.
- b) Lift the bill acceptor box assembly and slide it over the two screws.
- c) Tighten the two screws to secure the top of the assembly.

3. Secure the bottom of the bill acceptor box assembly to the machine.

- a) Using the two screws provided, secure the mounting plate from the bottom of the machine, to the bottom of the bill acceptor box.

NOTE: If using a bill acceptor AND an APP on the same machine, a different mounting plate is required to secure both accessories to the equipment. The part number for this plate is K021044.



Above - an exploded view of the complete bill acceptor assembly installation

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SECTION V - TESTING THE SYSTEM FOR PROPER OPERATION

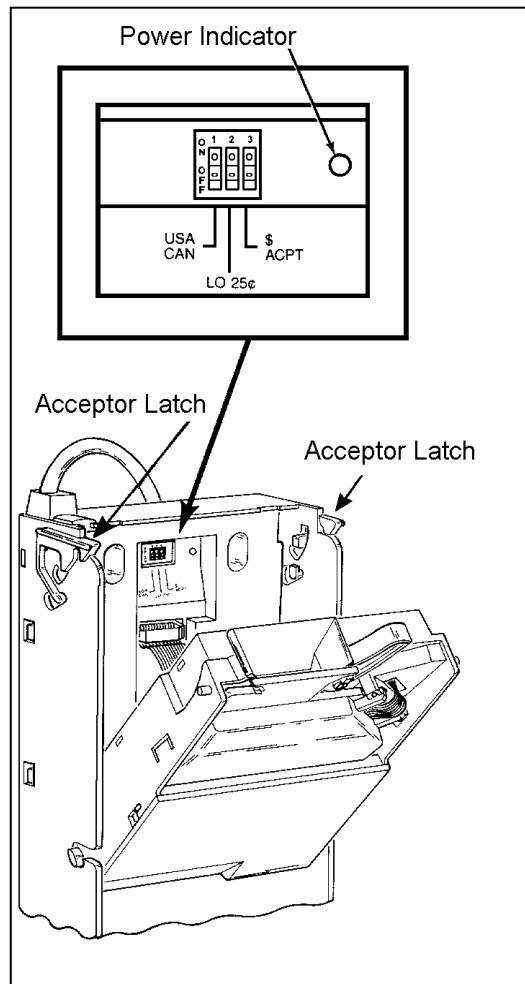
Configuring and Testing the 9340L Coin Changer

Before the complete system can be tested, first make certain that the 9340L coin changer is configured correctly and working properly. Use the following procedure to configure the 9340L coin changer.

1. Switch the machine power OFF.
2. Release the acceptor latches and pull the top of the acceptor forward.
3. Located in the upper portion of the changer is a single switch module with three rocker switches (as shown in the diagram below). When the top of the switch is pushed in, it is in the ON position. The switches should be set as follows:

Switch #1	USA / CAN	OFF - only U.S. coins will be accepted. Canadian coins will be rejected.
Switch #2	LO 25¢	OFF - all quarters go into change tube until the change tube is full.
Switch #3	\$ ACPT	ON - dollar bills and dollar coins will be accepted. This must be ON for bill acceptor to function.

4. Replace the acceptor to its original position.
5. Switch the machine power ON.
6. Test with a variety of coins to ensure proper operation.



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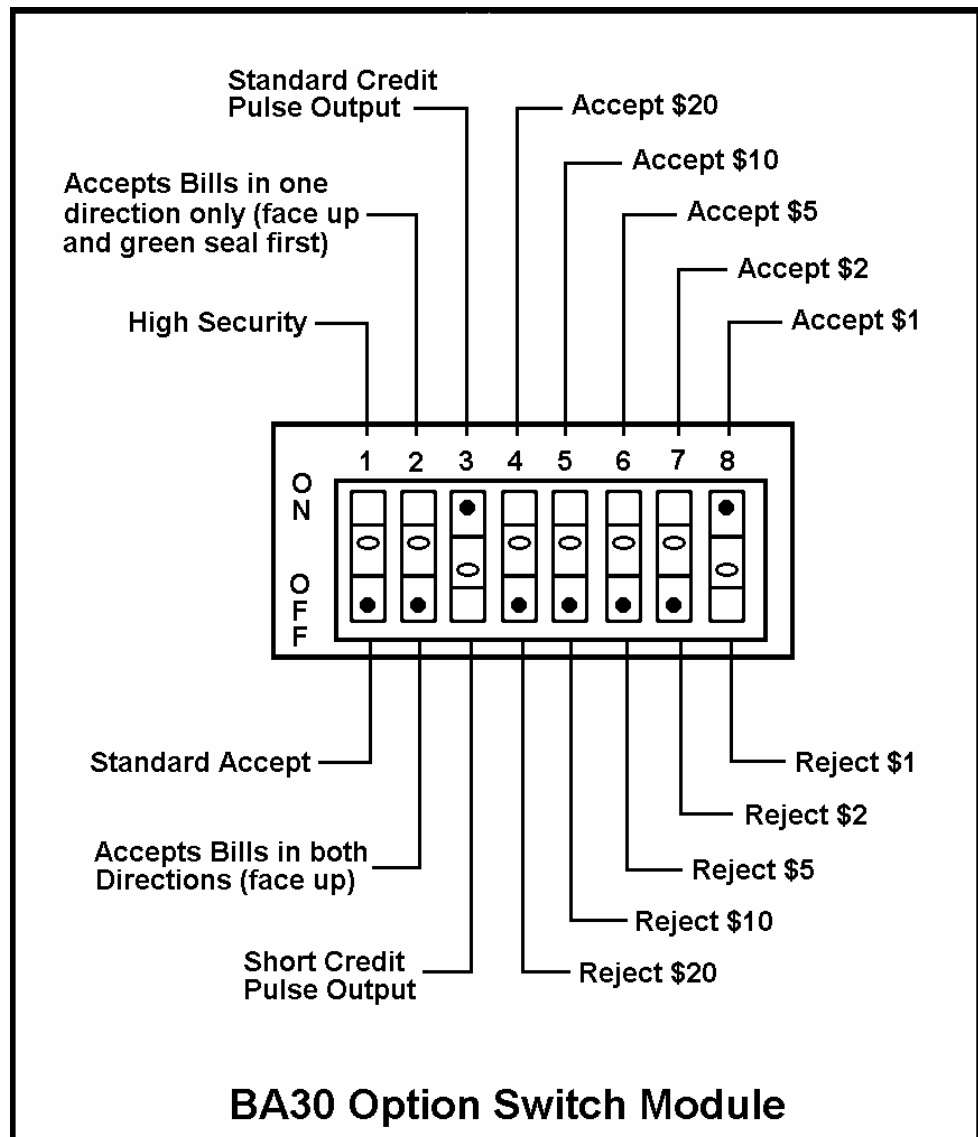
Configuring the Bill Acceptor (BA30B or MAG50B) Option Switches

The BA30B or MAG50B bill acceptor control board (board housing section) contains eight (8) option switches. These switches allow the unit to be customized to the installation requirements. The option switches are pre-set at the factory and shipped with switches #3 and #8 set to the ON position. This allows the unit to accept only \$1 bills, face up, and in both directions. All other switches are in the OFF position. The bill acceptor can be set to accept any and/or all bills up to the \$20 note. See the diagram below and to the right for option switch functions.

To set the option switches, the power must first be switched off. Remove the two screws that secure the control board housing to the bill acceptor (this should have already been done earlier in the installation process). Locate the dip switches, which are approximately in the middle of the board and to the right. The plastic board housing has a small access slot that allows easy access to the switches. This access slot has a strip of tape covering it. Remove the tape, and insert a small, thin screwdriver into the slot to set the option switches to the desired settings.

We recommend that you stay with the factory pre-set configuration for the bill acceptor (to accept only \$1 bills, face up, in both directions) as this setting will not require many coins to be dispensed as change. If you configure the system to accept notes higher than the \$1 bill, please make certain that the coin acceptor tubes are full (as they will empty very quickly), and that the LO 25¢ switch on the coin acceptor is in the OFF position.

For more details, please consult the Coinco literature provided with the bill acceptor.



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Testing the Bill Acceptor

For the bill acceptor to function, the 9340L coin changer must be working properly. Assuming that the coin changer was correctly configured and tested, the bill acceptor can now be tested. Use the following procedure to verify that the bill acceptor is functioning properly.

1. With the machine power switched OFF, load the coin changer tubes with a minimum of ten coins in each tube, making sure that all coins lie flat.
2. Switch the machine power ON. The bill acceptor stacker will cycle upon power-up.
3. Check that the power indicator light on the bill acceptor control board is ON continuously. If the light is OFF or blinking, check the following:
 - Power to the machine
 - Machine is in coin mode
 - No errors or faults are present
 - Electrical connections
 - Coin changer tube levels
 - Machine does not already have credit established

NOTE: *A list of bill acceptor flash codes (error codes) is provided on the diagram on the next page. If the power indicator light on the bill acceptor control board is flashing, these flash codes will help you to isolate and correct the problem.*

4. With the vend price set below one dollar, insert a one dollar bill as shown on the front of the bill acceptor.
5. The dollar bill will be accepted and stacked into the bill box.
6. Verify that a one dollar credit has been established by checking the credit amount on the display of the machine.
7. Vend a product and verify that the proper amount of change is returned.
8. Check the bill box to see that the one dollar bill is properly stored.

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Removing Accepted Bills

Accepted bills accumulate in the bill box of the acceptor. It is necessary to remove these accepted bills at least once a day. This can be done in one of two ways:

1. The bill box lid can be released by pulling the top of it back until it opens, exposing the bills for collection.
2. The bill box can be completely removed by pushing the tab on top of the assembly towards the front, then sliding the bill box in an upward direction.

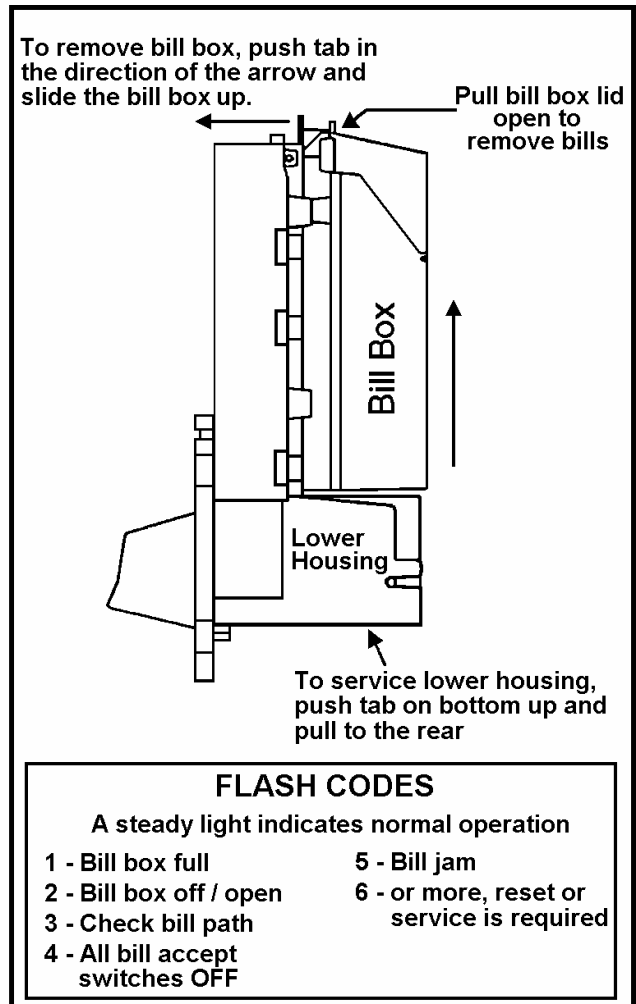
Please note that the system will be disabled if the bill box has not been re-installed, or if the bill box lid has been left open.

The diagram to the right illustrates the above procedures, as well as listing all the possible error codes that may be encountered.

For more details, please consult the Coinco literature provided with the bill acceptor.

Clearing Jams and Cleaning

Trapped bills, debris or dirt can result in poor bill acceptance or bill rejection. Remove the bill box and lower housing to access the bill path for cleaning trapped bills or debris. Clean the bill path plastic parts and belts with a cloth moistened with a mild soap and water solution. Clean the magnetic head and optic sensors using a cotton swab and isopropyl alcohol.



NOTE: Do not use any petroleum based cleaning solvents, scouring pads or stiff brushes for cleaning. These will damage the components inside bill acceptor. The bill acceptor requires no lubrication at any time.

BILL ACCEPTOR INSTALLATION INSTRUCTIONS FOR VISTA AND SUPREMA MODELS

COINCO BRANCHES AND SERVICE CENTERS IN THE U.S.

<p>HEAD OFFICE</p> <p>Coin Acceptors, Inc. 300 Hunter Avenue, St. Louis, Missouri</p> <p>(800) 325-2646 (314) 725-0100</p>	<p>MARYLAND</p> <p>Coin Acceptors, Inc. 8124 Philadelphia Rd. Baltimore, MD</p> <p>(301) 866-6440 / 6441</p>	<p>OHIO</p> <p>Coin Acceptors, Inc. 205 Corporate CT. Fairfield, OH</p> <p>(513) 874-4460</p>
<p>ARIZONA</p> <p>Coin Acceptors, Inc. 3222 S. Fair Lane Tempe, AZ</p> <p>(602) 431-0632</p>	<p>MASSACHUSETTS</p> <p>Coin Acceptors, Inc. 60 Prospect St. Waltham (Boston), MA</p> <p>(617) 894-4525</p>	<p>PENNSYLVANIA</p> <p>Coin Acceptors, Inc. 4573 Campbells Run Rd. Pittsburgh, PA</p> <p>(412) 787-7272</p>
<p>CALIFORNIA</p> <p>Coin Acceptors, Inc. 11618 E. Washington Blvd. Whittier, CA</p> <p>(800) 777-1361 (California only)</p>	<p>MICHIGAN</p> <p>Coin Acceptors, Inc. 10631 Dix Avenue Dearborn, MI</p> <p>(313) 843-1600</p>	<p>TENNESSEE</p> <p>Coin Acceptors, Inc. 2885 Democrat Rd. Suite A Memphis, TN</p> <p>(901) 362-5725</p>
<p>COLORADO</p> <p>Coin Acceptors, Inc. 6527 N. Washington Denver, CO</p> <p>(303) 289-6767</p>	<p>MISSOURI</p> <p>Coin Acceptors, Inc. 1236 Dielman Industrial Ct. St. Louis, MO</p> <p>(314) 997-0007</p>	<p>TEXAS</p> <p>Coin Acceptors, Inc. 9622 Chartwell Drive Dallas, TX</p> <p>(214) 341-1628</p>
<p>FLORIDA</p> <p>Coin Acceptors, Inc. 3902 Corporex Park Drive Suite 600 Tampa, FL</p> <p>(813) 621-5533</p>	<p>NEW JERSEY</p> <p>Coin Acceptors, Inc. 100 Jersey Ave. Suite 203 B Building B, Box 14 New Brunswick, NJ</p> <p>(908) 246-1588</p>	<p>TEXAS</p> <p>Coin Acceptors, Inc. 2001 Karbach Street Unit A Houston, TX</p> <p>(713) 683-6558</p>
<p>ILLINOIS</p> <p>Coin Acceptors, Inc. 862 Eagle Drive Bensenville (Chicago), IL</p> <p>(708) 860-2650</p>	<p>NORTH CAROLINA</p> <p>Coin Acceptors, Inc. 1921 I-85 South Charlotte Corporate Center Charlotte, NC</p> <p>(704) 394-0123</p>	<p>WASHINGTON</p> <p>Coin Acceptors, Inc. 881 Industry Drive Seattle, WA</p> <p>(206) 575-1999</p>

More information can be obtained at Coinco's web site – www.coinco.com