

THE CARD MASTER

Set up and Operation Manual

Your Machine Serial Number: _____



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THE CARDMASTER

SET UP AND OPERATION MANUAL

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SAFETY CONSIDERATIONS

1. Unplug the machine when servicing – failure to do this could cause serious injury.
2. If the power cord is damaged, the manufacturer, its service agent, or a similarly qualified person must replace it.
3. Permanent bypass of any safety switches may cause serious injury.
4. Refer to the “**Machine Mounting**” section of the manual for proper installation instructions.
5. A three prong grounded outlet must be used to power this machine.
6. Do not overload power circuits.
7. Do not use extension cords to run power to this machine.

UNPACKING

When the machine is received, it should be carefully unpacked and checked closely for any possible damage. If a freight company is involved and there is damage, please notify them immediately. They will need to thoroughly inspect the damage and fill out a report. Please **do not** install the machine until this has been done.

Please remove and save packing materials for later use.

STANDARD MACHINE PACKING LIST

| <u>QUANTITY</u> | | <u>DESCRIPTION</u> |
|------------------------|--------------------|---------------------------|
| <u>CM-2</u> | <u>CM-4</u> | |
| 1 | 1 | PHONE CARD MACHINE |
| 1 | 1 | Pushbutton bulb |
| 1 | 1 | 3 AMP fuse |
| 2 | 4 | Weights |
| 8 | 16 | Pushbutton labels |
| 4 | 4 | Machine Keys (2 per door) |
| 1 | 1 | Hex key (side of mech) |
| 1 | 1 | Card Hook |
| 1 | 1 | Warranty certificate |
| 4 | 4 | Lag Bolts |
| 1 | 1 | Operation Manual |

*If the machine is equipped with a modem, alarm, or printer an Options Manual will be included.

MACHINE MOUNTING

A few things to note before the Card Master Machine mounting takes place:

1. Tools needed:
 - a. Electric drill
 - b. 1/4" drill bit
 - c. 1/8" drill bit
 - d. Rubber mallet or hammer
 - e. 1/4" nut driver or flathead screwdriver
 - f. Ratchet
 - g. 7/16" socket
 - h. 7/16" wrench
2. Hardware included with the base:

| | |
|---------------------|------------------|
| 4 – 1/4" – 20 bolts | 4 – stud anchors |
| 4 – 1/4" washers | 4 – nuts |
| 4 – Spacers | 4 – washers |
3. It is recommended to mount the base to the floor before mounting the cabinet to the base.
4. The Optional Hardware is designed for locations where drilling into the floor is not practical. Consult your distributor or TMI sales representative for more information about the Optional Hardware.
5. It is always recommended to mount the cabinet to the base assembly. Mounting to either the wall or to the floor is also recommended but it is not necessary to mount to both. When using a base and your machine has a CSA sticker on it you must either mount the machine to a wall or the base to the floor. **If this is not done your machine is not CSA compliant.**

Decide whether you are going to mount the base to the floor or the cabinet to the wall.

1. Mounting the base assembly to the floor **without** the Optional Hardware.
 - a. Drill four 1/4" holes 3/4" deep using the Anchor Hole Pattern shown in the mounting diagram on page 5.
 - b. Hammer the four stud anchors into the holes that you have drilled.
 - c. Remove the front door of the base assembly (or access panels if your base does not have a door).
 - d. Place the base assembly on the 4 stud anchors.
 - e. Place a washer a spacer and a nut on each stud anchor and fasten securely.
 - f. Re-install the base front door (or access panels if your base does not have a door).
2. Mounting the CM cabinet to the base assembly.
 - a. Remove the front door on the base assembly (or access panels if your base does not have a door).
 - b. Run the power cord from the CM cabinet through the hole in the top of the base assembly.

- c. Finish running the power cord out the hole in the back of the base assembly.
 - d. Place the CM cabinet on top of the base assembly.
 - e. Place the 1/4-20 bolts and a 1/4" washer into each hole as shown in the diagram.
 - f. Re-install the front door on to the base assembly.
3. Mounting the CM Cabinet and Base Assembly to the wall.
 - a. Having already done step (2), drill four 1/8" holes in the wall using the Back Hole Pattern as shown in the mounting diagram on page 5.
 - b. Insert a Hex Lag Screw and a 1/4" washer into the holes in the CM cabinet through into the wall.
 - c. Remember that the CM cabinet will be held more securely if the lag Screws are going into the studs in the wall.
4. Mounting the base assembly to the floor **with** the optional hardware
 - a. Place the tape strips underneath the base mount as shown in the mounting diagram on page 5.
 - b. Set the base on the base mount.
 - c. Remove the front door from the base assembly (or access panels if your base does not have a door).
 - d. Place a 1/4" washer and a 1/4-20 nut on each stud and fasten securely.
 - e. Remove the protective paper that is on the tape strips.
 - f. Place the base assembly in its desired location.
 - g. Re-install front door on the base assembly (or access panels if your base does not have a door).

CM2N / CMV4 MOUNTING DIAGRAM

CM2N / CMV4 MOUNTING INSTRUCTIONS

(1.500 TO FRONT OF MACHINE)

BOTTOM OF BASE ASSEMBLY HOLE PATTERN

(1.500)

(8.028)

(12.060)

(ϕ .375(4))

BACK OF MACHINE HOLE PATTERN

(9.375)

(15.089)

(5.000)

(3.073)

(ϕ .275(4))

BASE ASSEMBLY (OPTIONAL)

| ITEM NO. | QTY. | PART NO. | DESCRIPTION |
|----------|------|----------|------------------------|
| 4 | 1 | 408-000 | CM NARROW CABINET |
| 11 | 1 | 408-052 | CM NARROW BASE CABINET |
| 17 | 4 | 500-186 | LAG SCREW |
| 18 | 4 | 052-013 | 1/2" SPACER |
| 19 | 4 | 050-136 | 1/4-20 X 1.5" |
| 20 | 4 | 069-026 | STUD ANCHOR |
| 21 | 4 | 014-006 | 1/4-20 NUT |
| 22 | 4 | 014-007 | 1/4 ID WASHER |

BTMI
TECHNIK MFG. INC.
COLUMBUS, NEBRASKA

NAME:
CM NARROW CABINET MOUNTING INSTRUCTIONS

PART # CM-2N
DATE: 3/6/2001
REV # A
SHEET: 1 OF 1
SCALE: NONE

DRW'N BY: KEC
CHK'D BY:
APPV'D BY:

FILE #CM-2N
MAT'L
FINISH:

CM2 / CM4 MOUNTING DIAGRAM

REVISION HISTORY

CM2 / CM4 MOUNTING INSTRUCTIONS

CM2 OR CM4 MACHINE

BACK OF MACHINE HOLE PATTERN

(16.000)

(2.940)

(16.000) (C/L)

BOTTOM OF BASE ASSEMBLY

(10.000)

(1.470 TO FRONT OF MACHINE)

(17.125)

BASE ASSEMBLY (OPTIONAL)

| ITEM NO. | QTY. | PART NO. | DESCRIPTION |
|----------|------|----------|--------------------|
| 32 | 4 | 052-013 | 1/2" SPACER |
| 33 | 12 | 014-007 | 1/4" ID WASHER |
| 34 | 4 | 050-136 | 1/4-20 X 1.5" BOLT |
| 35 | 1 | 069-025 | BASE MOUNT |
| 36 | 4 | 014-006 | 1/4-20 NUT |
| 37 | 4 | 500-186 | LAG SCREW |
| 38 | 4 | 069-026 | STUD ANCHOR |

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COLUMBUS, NEBRASKA

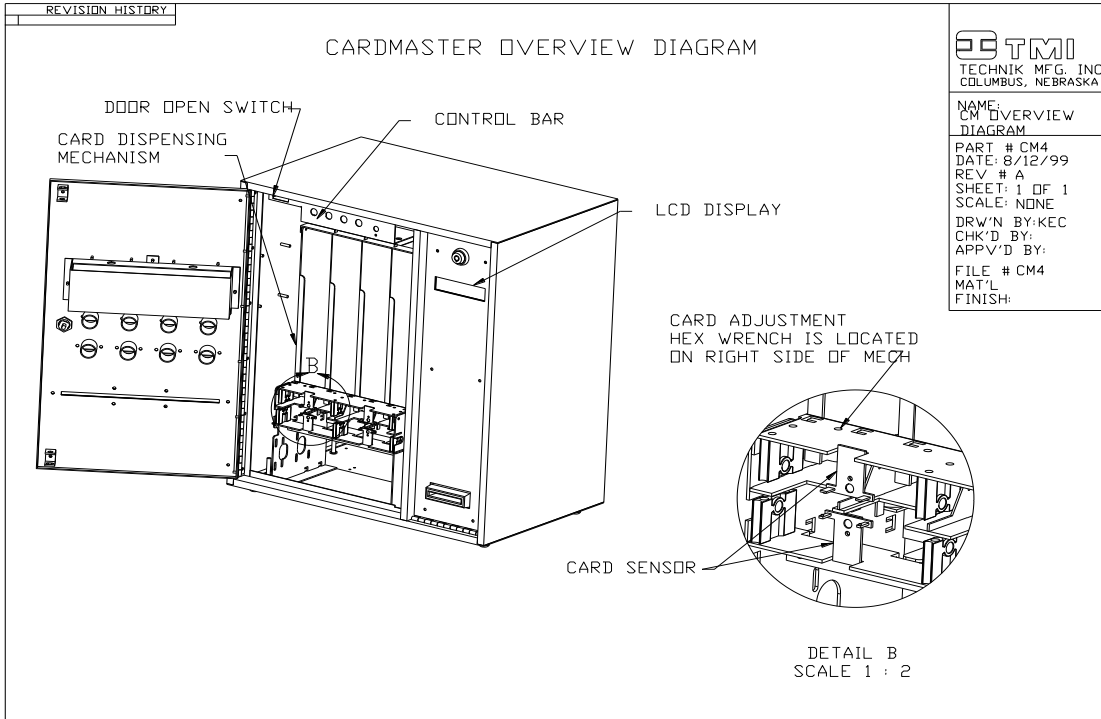
NAME:
CM2 / CM4 INSTALLATION INSTRUCTIONS

PART # CM2_CM4 INST
DATE: 8/12/99
REV # A
SHEET: 1 OF 1
SCALE: NONE

DRW'N BY: KEC
CHK'D BY:
APPV'D BY:

FILE # CM2_CM4 INST
MAT'L
FINISH:

MACHINE COMPONENTS DIAGRAM



AUTOMATIC SEQUENCING

The power switch is located on the main control bar inside the dispensing side of machine. When the machine is first turned on, it will start its automatic sequencing. The sequence starts with three audio “beeps”. The LCD will display important information (software version information, and the number of columns it has been initialized for). The machine will cycle through each row’s solenoid (lifting) and lighting its pushbutton at the same time. This automatic sequencing is intended to be used as an aid to ensure that the electronics and moving parts are working properly.

MODES OF OPERATION

As you are facing the front of the machine with the product door open, you will see the control bar in the dispensing side of the machine (CM8 the control bar is located in the left mech side). The selector knob allows you to select either **VEND, PRICE, COUNT, MOTOR, OR SERVICE**.

To change modes of operation use the selector switch located on the control bar.

VEND MODE: This mode is what the machine should be in during normal operation.

PRICE MODE: This mode is used to price the individual columns.

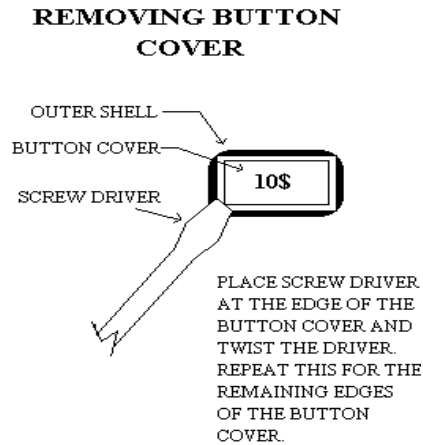
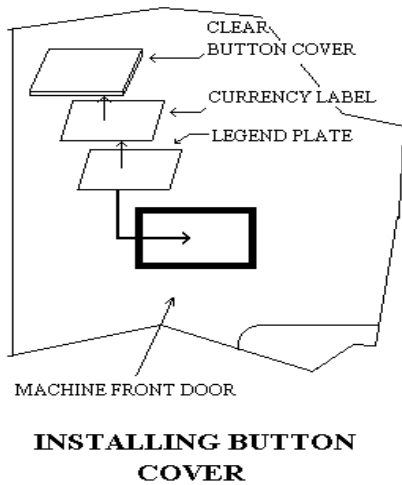
COUNT MODE: This mode is used to check and clear accounting information.

MOTOR MODE: This mode is used to count inventory, clear a jammed card, adjust card thickness, and troubleshooting.

SERVICE MODE: This mode is used for assisting in troubleshooting and adjustments. All normal vend mode functions are available except money accepted and cards dispensed are not recorded into the accounting information. When in the service mode the audible alarm will sound briefly every 15 seconds to serve as a reminder that you are in the service mode.

INSTALLING PUSHBUTTONS

The pushbutton assembly includes the clear top cap, the pushbutton label, the white plastic back, and the pushbutton itself. Insert the currency legend into the clear top cap so that when looking at the front of it, it reads correctly. Place the white plastic back in next, and then simply snap into the pushbutton fixture. To remove the cover, use a thin screwdriver and pry it loose between the clear cap and the outer shell. Note the following illustration.



IMPORTANT: BE SURE TO GO THROUGH THE “**PRICING THE MACHINE**” SECTION OF THIS MANUAL AFTER CHANGING THE CURRENCY LABELS!!!

PRICING THE MACHINE

As you are facing the front of the machine with the product door open, you will see the control bar in the dispensing side of the machine. The selector knob allows you to select either **VEND, PRICE, COUNT, MOTOR, OR SERVICE**.

For the pricing mode, you must turn the selector knob to the “**PRICE**” position. Notice the display on the front of the machine is reading, “**Price column A**”. Below that a dollar amount is displayed. To change to the price of the card you are selling:

1. Press the “**CLEAR**” or “**SET**” button to select a desired price.
2. Press the “**SELECT**” or “**NEXT**” button to change rows and repeat step one.
3. Repeat this procedure for all rows of the machine so that they are priced at the denomination given on the front of the machine.

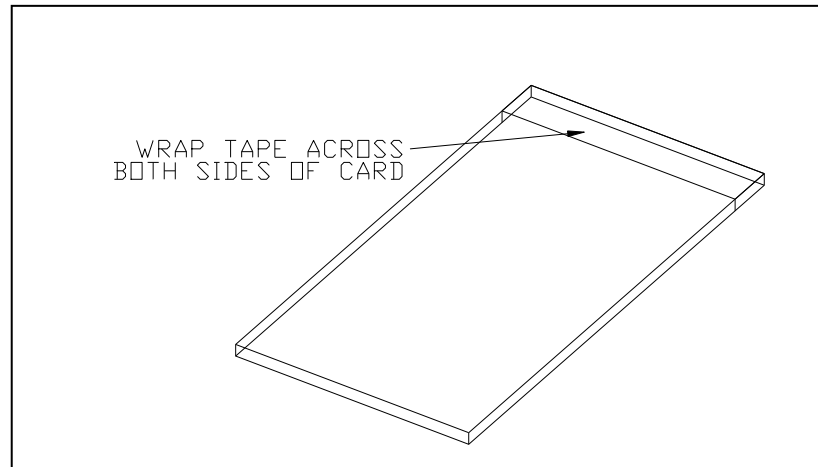
Pricing is completed when the selector knob is in the “**VEND**” position. The machine is now ready to vend cards.

CARD THICKNESS ADJUSTMENT PROCEDURE

20 TO 30 MIL CARD ADJUSTMENT

1. With a hex wrench, turn the adjustment screw on the dispensing mechanism counter-clockwise until a card will not pass the adjustment mechanism.
2. To make a "test card" place (2) pieces of clear tape or (1) piece of electrical tape as shown below.
3. Place a "test card" tape first, in the bottom of the column you wish to adjust.

TEST CARD



4. Place the adjustment weight on top of the card
5. Add some money to the machine.

BEFORE GOING ANY FURTHER, READ THE INSTRUCTIONS BELOW!!!

6. Place the hex head wrench into the adjustment screw.
7. With the door open, you must temporarily bypass the door open switch to run the motor. With the motor running, turn the adjustment screw clockwise until a card is dispensed. It may take a few tries before a card is dispensed.
8. Once a card is dispensed, the column is properly adjusted.
9. Follow the procedure on the other columns.

10 MIL CARD ADJUSTMENT

1. Follow the procedure described above (20 to 30 MIL CARD ADJUSTMENT) except use a standard 10 mil card (without the tape) for testing.

LOADING / UNLOADING CARDS

You are now ready to start loading your cards. Once the cards are in the rows, place a weight on top of the stack. The weight should be in so that the word “front” is facing you, right side up.

In “**SERVICE**” mode, insert cash in the bill acceptor to make sure the correct number of cards are dispensed and the mechanism is functioning properly.

For unloading cards, a card hook is provided that allows for easy removal of the bottom-most cards.

SOLD OUT LAMPS

The Card Master Machine has the following features so that it may be easier to determine “sold out” conditions and remaining inventory cycle count.

The “**sold out**” light will indicate either the column is out of cards or a dispensing problem has occurred.

- If the “**sold out**” light is on **solid**-the column is out of cards
- If the “**sold out**” light is **blinking**- a card was not dispensed when the column was selected.

CHECKING THE COUNTS

The Card Master machine has “**re-settable**” and “**non re-settable**” accounting information. When the select knob is on “**COUNT**”, this information can be viewed on the display on the front of the machine.

The “**SELECT**” or “**NEXT**” button is used to view the counts for cash and cards. The “**SELECT**” or “**NEXT**” button will go through all the information of total and period counts. The cash and cards titled “**PERIOD**” are **re-settable counts**. The re-settable counts can be cleared by pressing the “**CLEAR**” or “**SET**” button. The cash and cards titled “**TOTAL**” are non re-settable. The non-resettable counts will keep lifetime total until the machine is re-initialized.

Returning the selector knob to “**VEND**” will set the machine to normal operations.

MOTOR MODE / COUNTING FEATURE

For inventory purposes, the Card Master machine will electronically count the remaining cards in each column.

- Place the selector knob in the “**MOTOR**” position. The motor will run constantly.
NOTE: The product door must be open, and the “**motor kill switch**” must be bypassed. This is done by taking the brown cap off of the on/off switch and inserting it into the slot, directly to the left. The motor will run continuously when this cap is in the slot.
- To count the remaining cards in a column, press the pushbutton for that column. The machine will then dispense the cards from that column. The machine will count each card dispensed.
- To stop the column from dispensing before empty, press the push button for that row for one second. Note that the cards will stop dispensing, and the count on the credit display will indicate the number of cards dispensed. This count will reset to zero when the pushbutton is pressed again.

INITIALIZING PROCEDURE

This procedure allows automatic reprogramming of the entire system. All pricing and re-settable counts may be lost.

This procedure is as follows:

1. Position the selector knob to the “**PRICE**” position.
2. Hold down the “**CLEAR**” or “**SET**” button
3. Turn the machine off and back on.
4. Wait for the audible signals (beeps)
5. Release the “**CLEAR**” or “**SET**” button

RESET PROCEDURE

If this machine malfunctions, it will automatically shut down. Once a card jam is cleared, the machine must be reset. Simply move the power switch to the off position for about 3 seconds, and then back on. The machine is reset. The machine has a battery back up for memory; so shutting the power off and on again does not cause the machine to lose its count or program.

TROUBLESHOOTING

WARNING!!!! WARNING!!!! WARNING!!!! WARNING!!!! WARNING!!!!
ALWAYS UNPLUG THE MACHINE PRIOR TO
SERVICING THE MACHINE

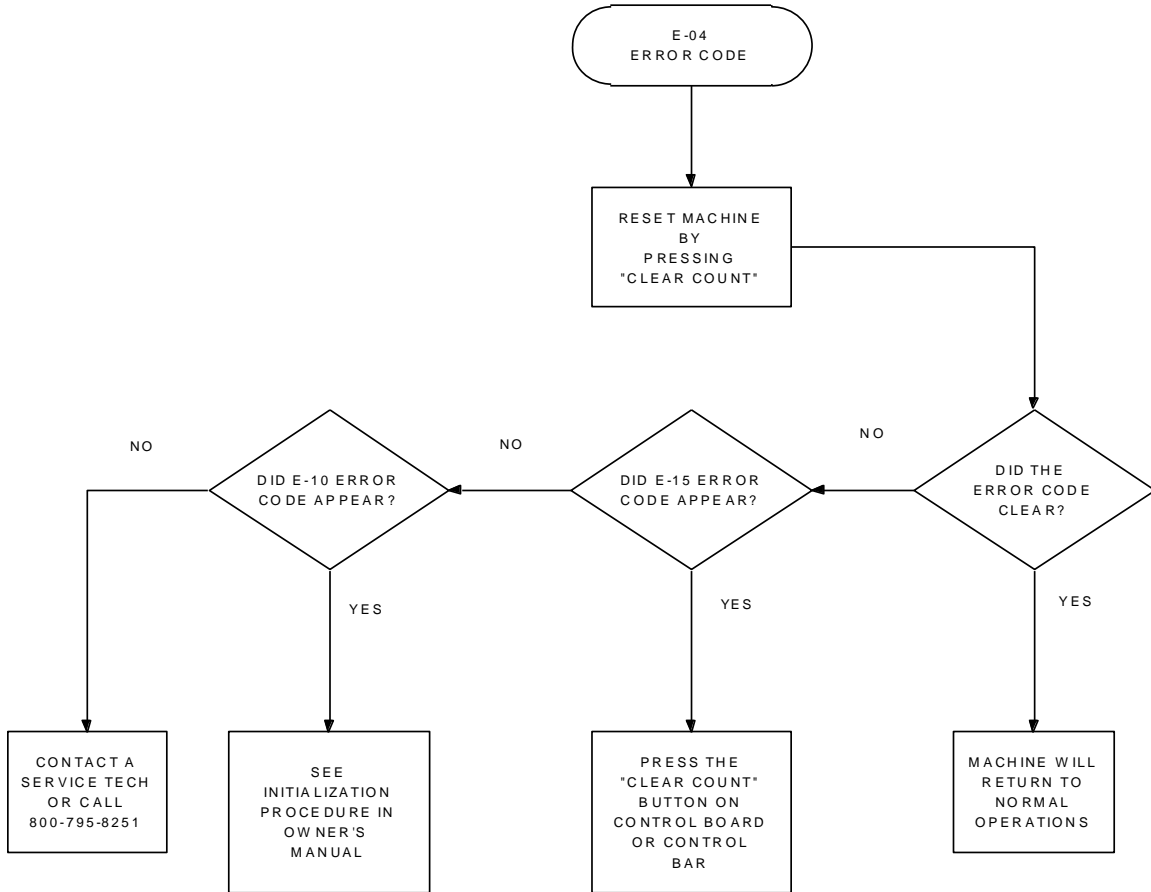
ERROR CODES

Diagnostic flow charts follow for each error code

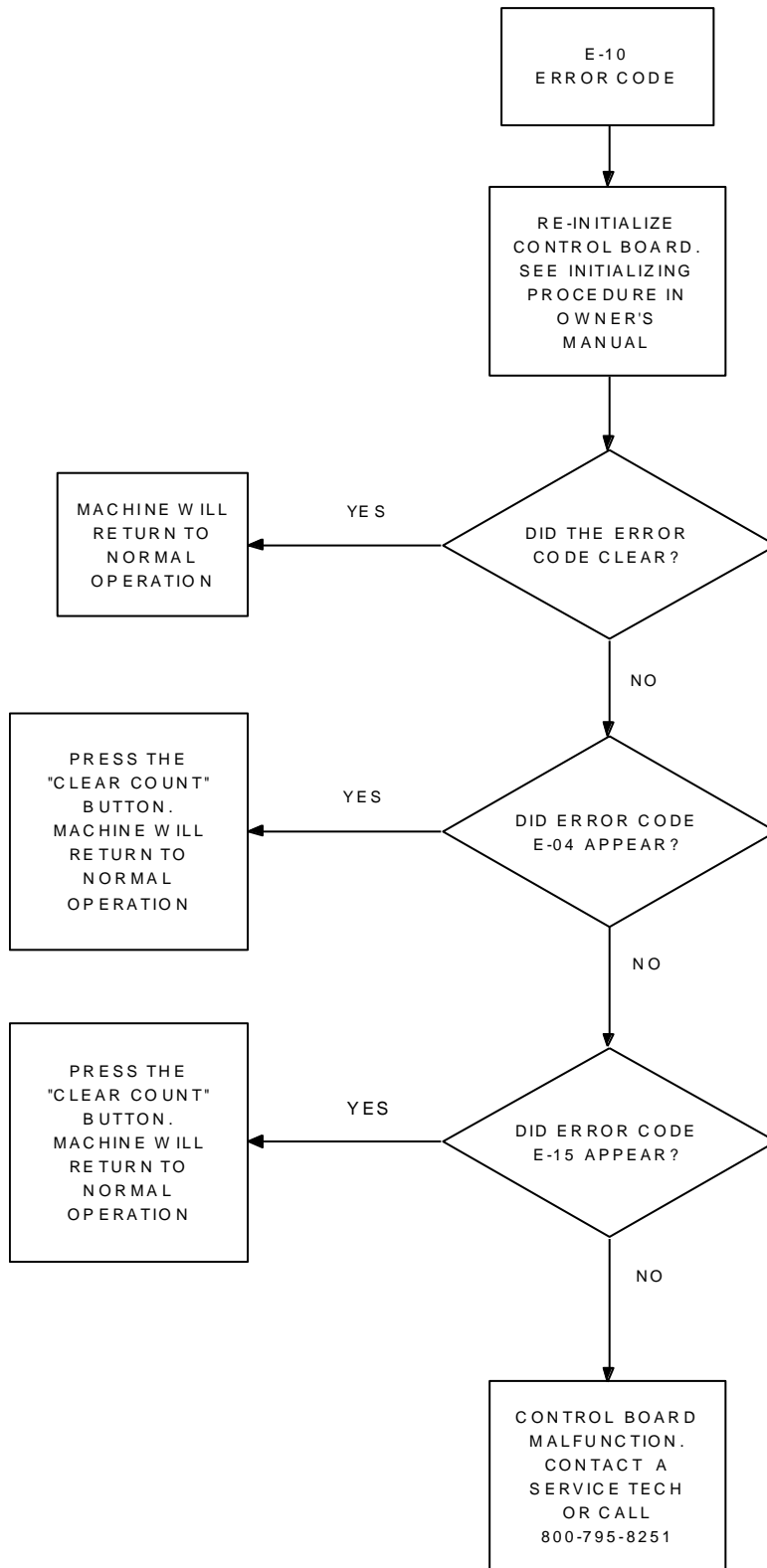
The machine has the ability to determine its own reason for not functioning. It has several error codes that tell you where the problem is occurring. The codes will appear on the display, located on the cash door. The codes that may be encountered are as follows:

- E-04** This means that a power interruption occurred while a card was being dispensed. To clear this error code, push the “**CLEAR**” or “**SET**” button on the control bar with the power on.
- E-10** This means that the machine has lost its memory, the row denominations will default to the default pricing and the counts will be cleared. This indicates the machine needs to be re-initialized – see the “**Initializing Procedure**” section of this manual.
- E-11** This means that the bill acceptor pulse was too short in duration. Turn the machine off, and then back on. This error code will clear itself.
- E-12** This means the bill acceptor pulse was too long in duration. Turn the machine off, and then back on. This error code will clear itself.
- E-13** This means the selected ticket took too long to dispense. Remove the ticket from that row. To clear, turn the machine off, and then back on.
- E-14** This means that an unexpected card or foreign object was sensed. Physically remove the card or foreign object. To easily remove a card turn the selector switch to the motor position (the door open switch must be bypassed).
If **E-14** error codes are frequent, then, with the selector knob in “**VEND**”, press the “**CLEAR**” or “**SET**” button. The pushbutton light will indicate the column that is causing the error code. When a column’s pushbutton light is lit, this is the column that may have a bad sensor. **Contact a service technician.**
- E-15** This means the non re-settable counters are corrupt. The non re-settable counts have cleared to zero. With the selector switch in the “**PRICE**” position, press the “**CLEAR**” button on the control bar to clear this code. Please note that other error codes may occur after clearing the E-15, usually E-11 and E-04.

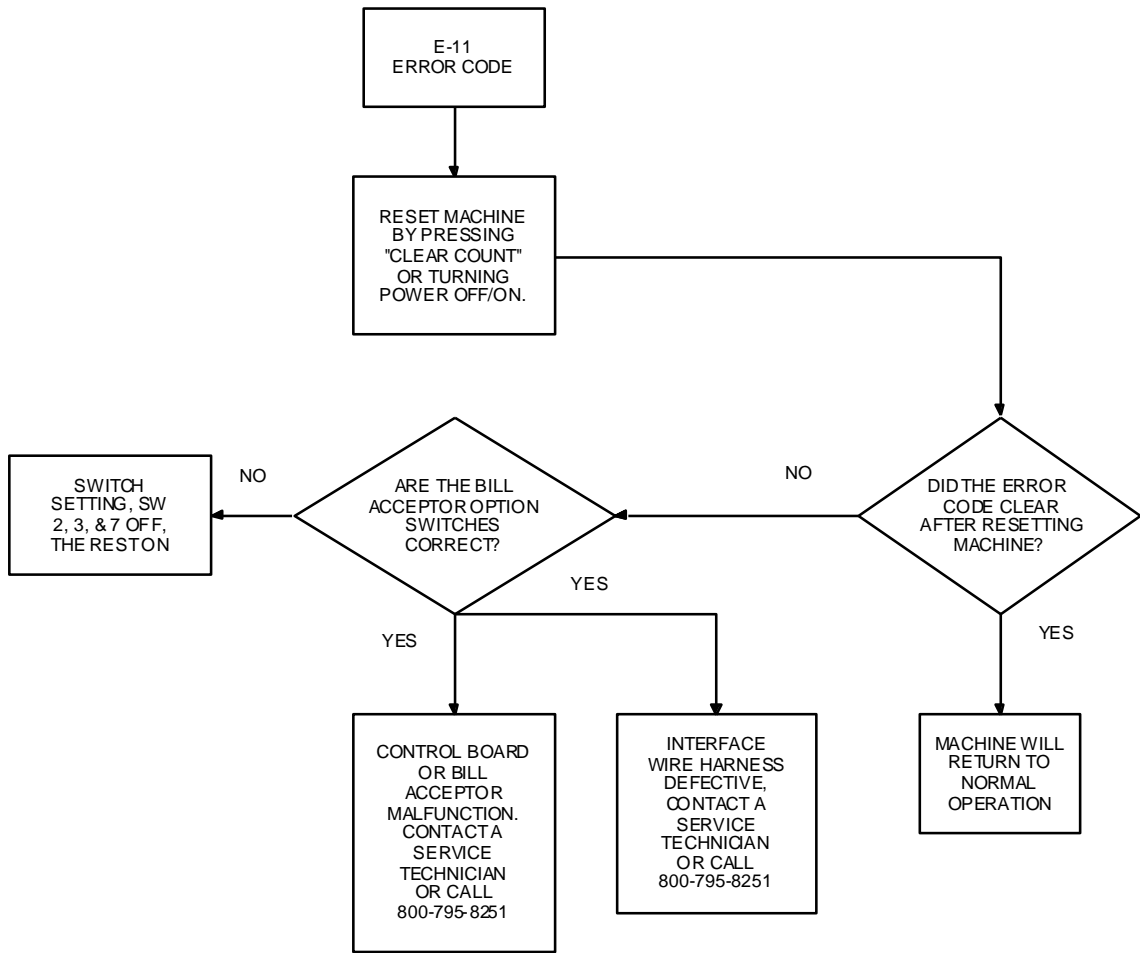
ERROR CODES FLOW CHART



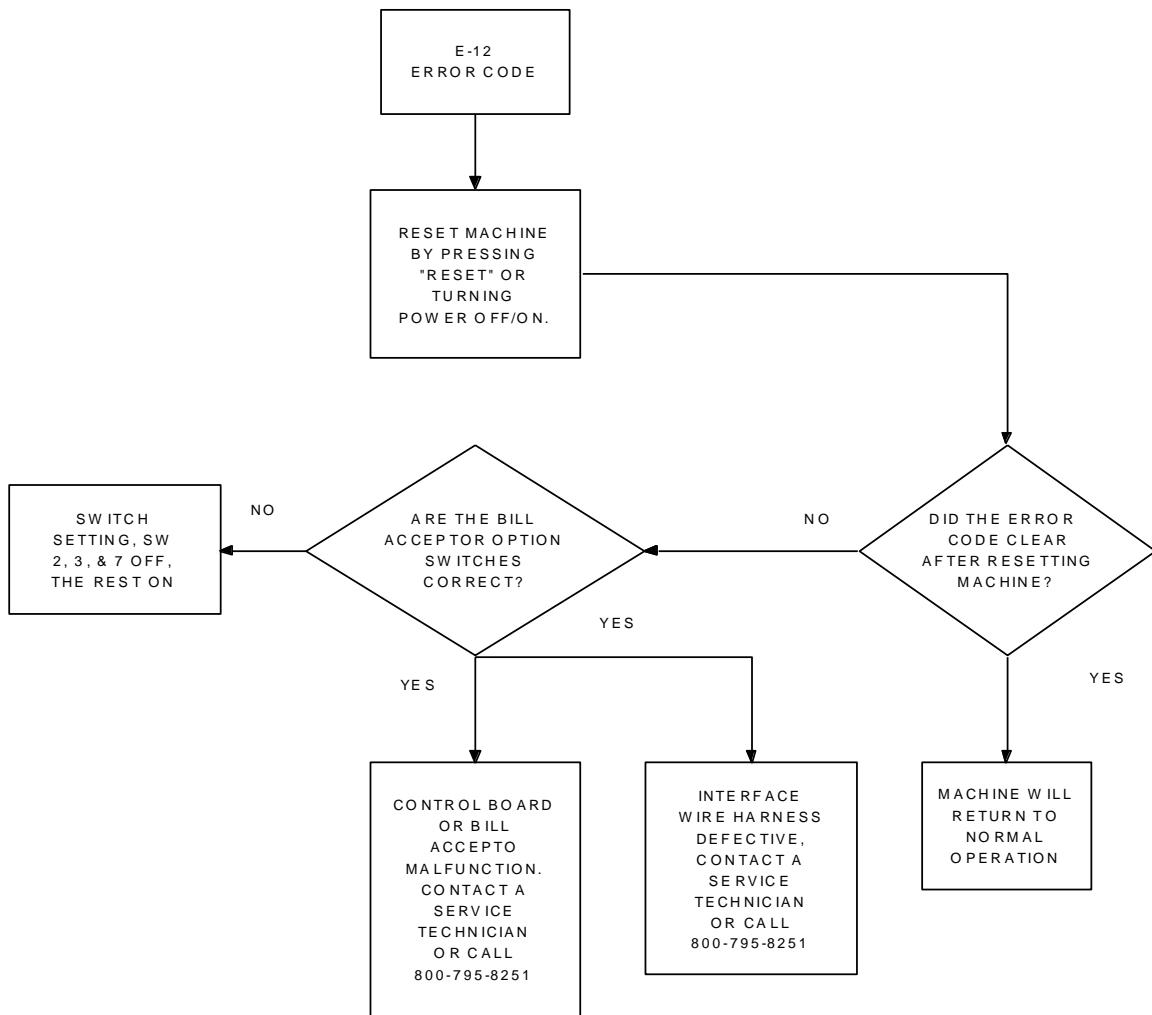
ERROR CODES FLOW CHART



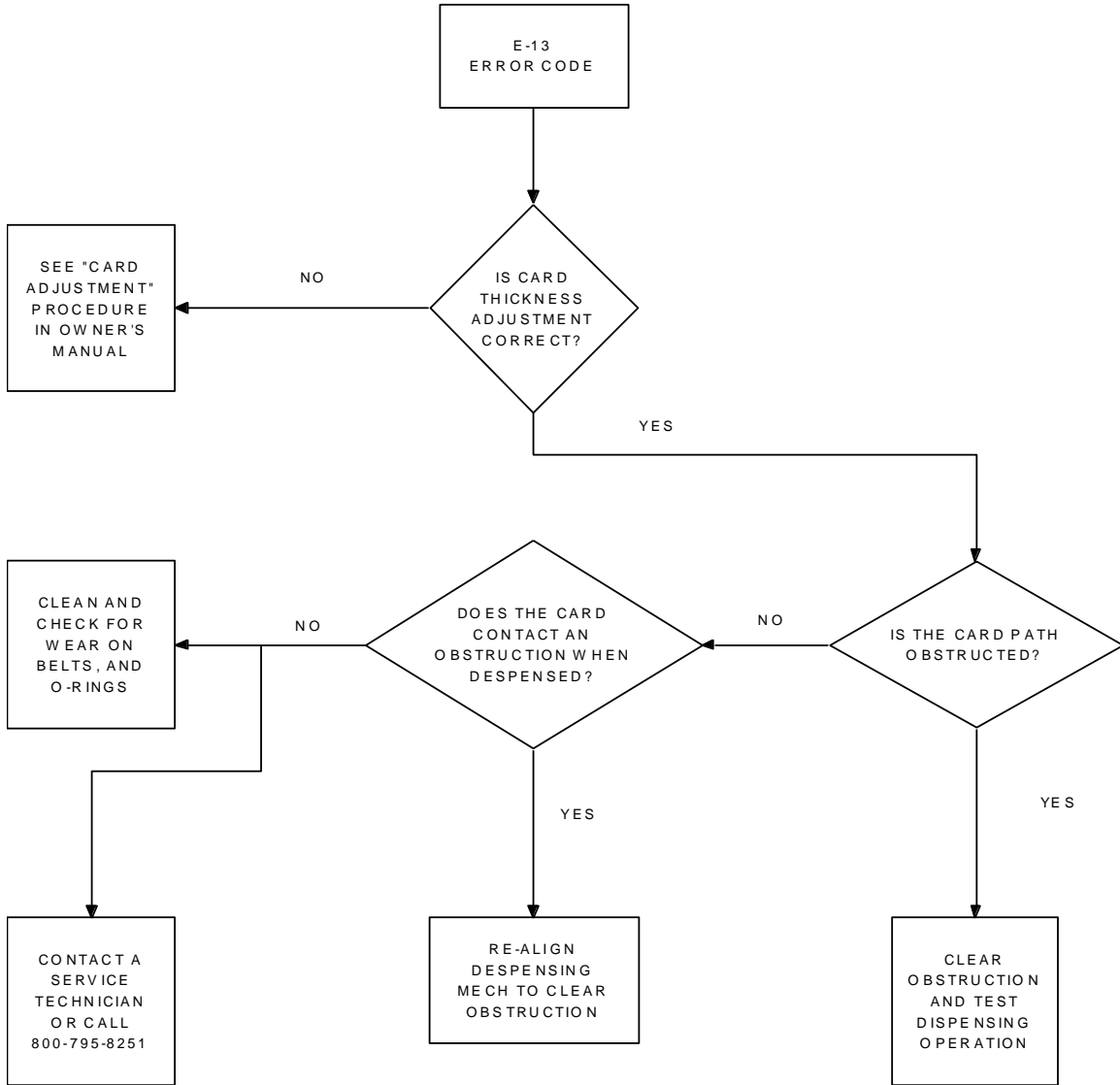
ERROR CODES FLOW CHART



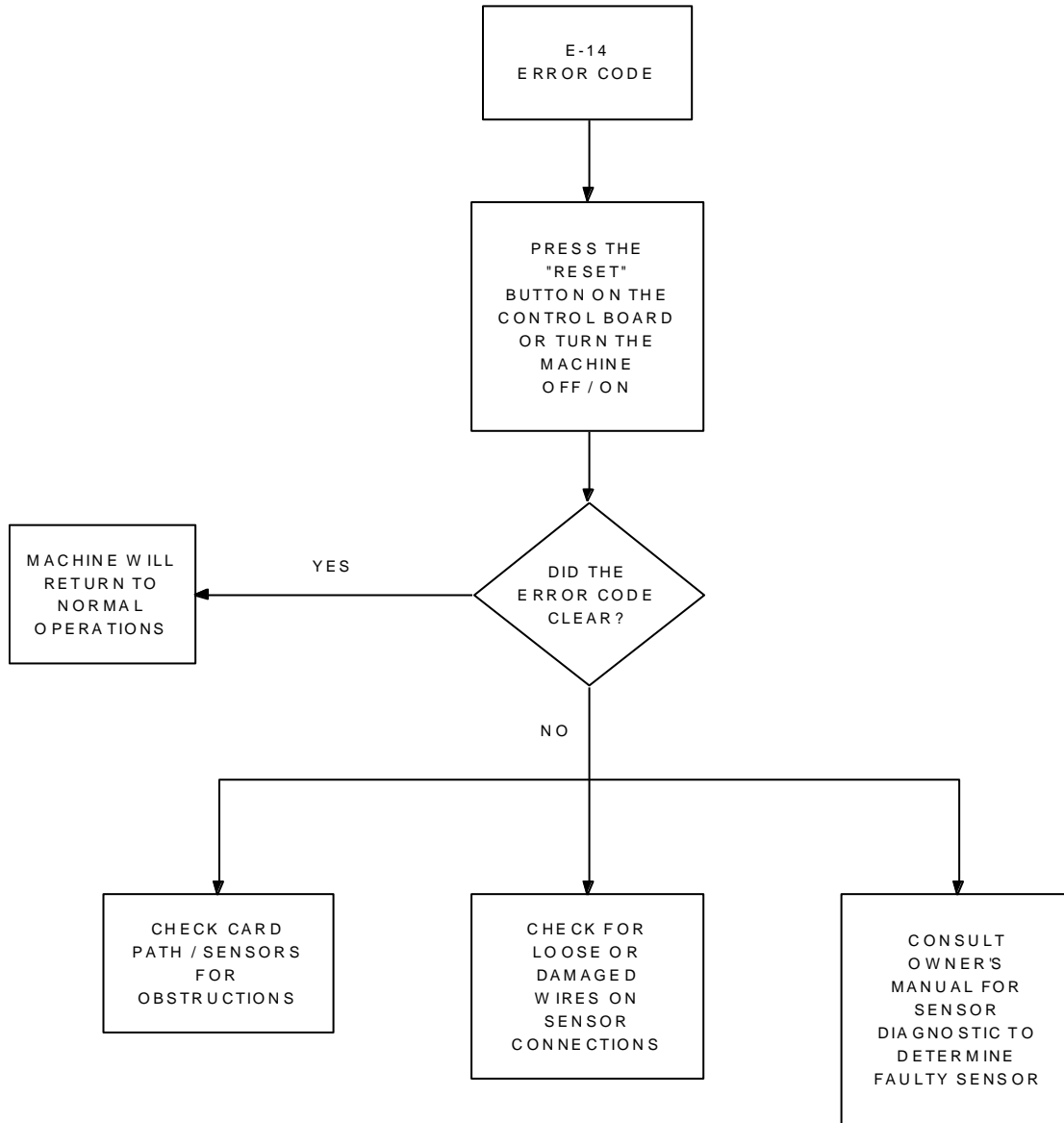
ERROR CODE FLOW CHART



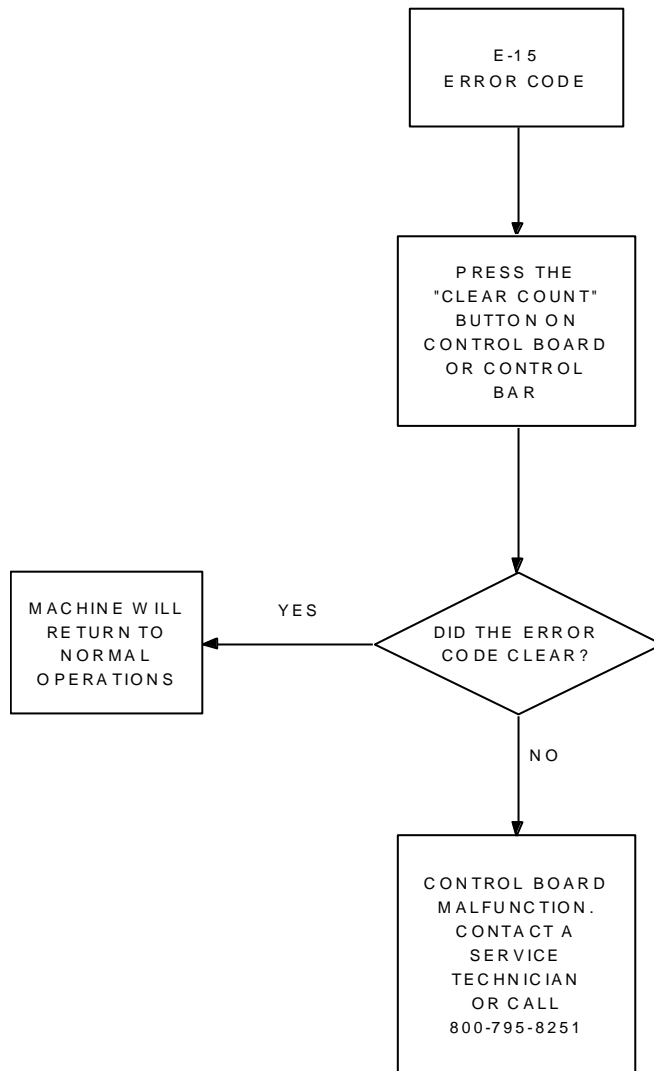
ERROR CODES FLOW CHART



ERROR CODES FLOW CHART



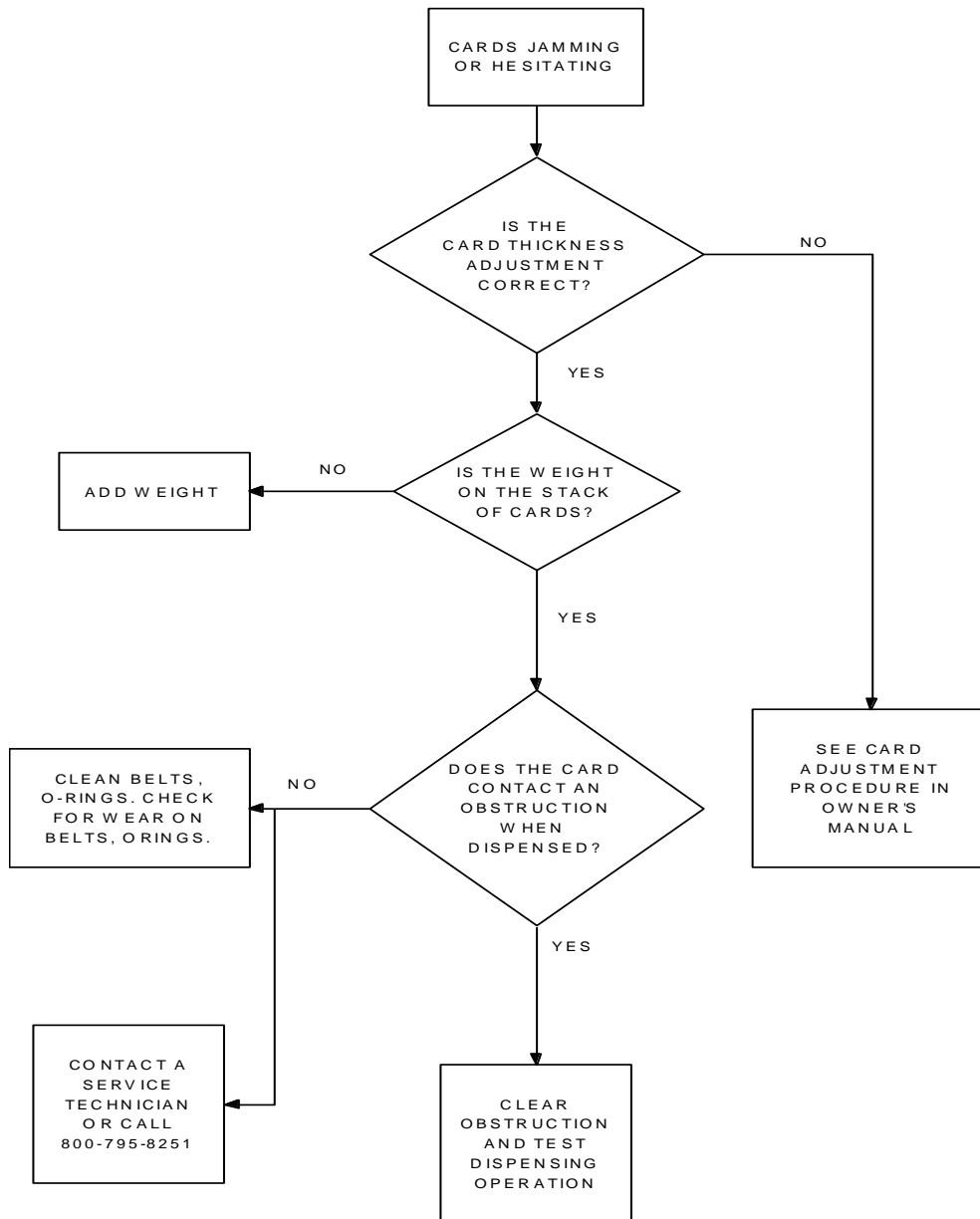
ERROR CODES FLOW CHART



CARDS JAM OR HESITATE DURING DISPENSING

1. Cards may be too thick or too thin. See “**Card Thickness Adjustment Procedure**” section of this manual.
2. Cards may be damaged. Remove damaged card and try again.

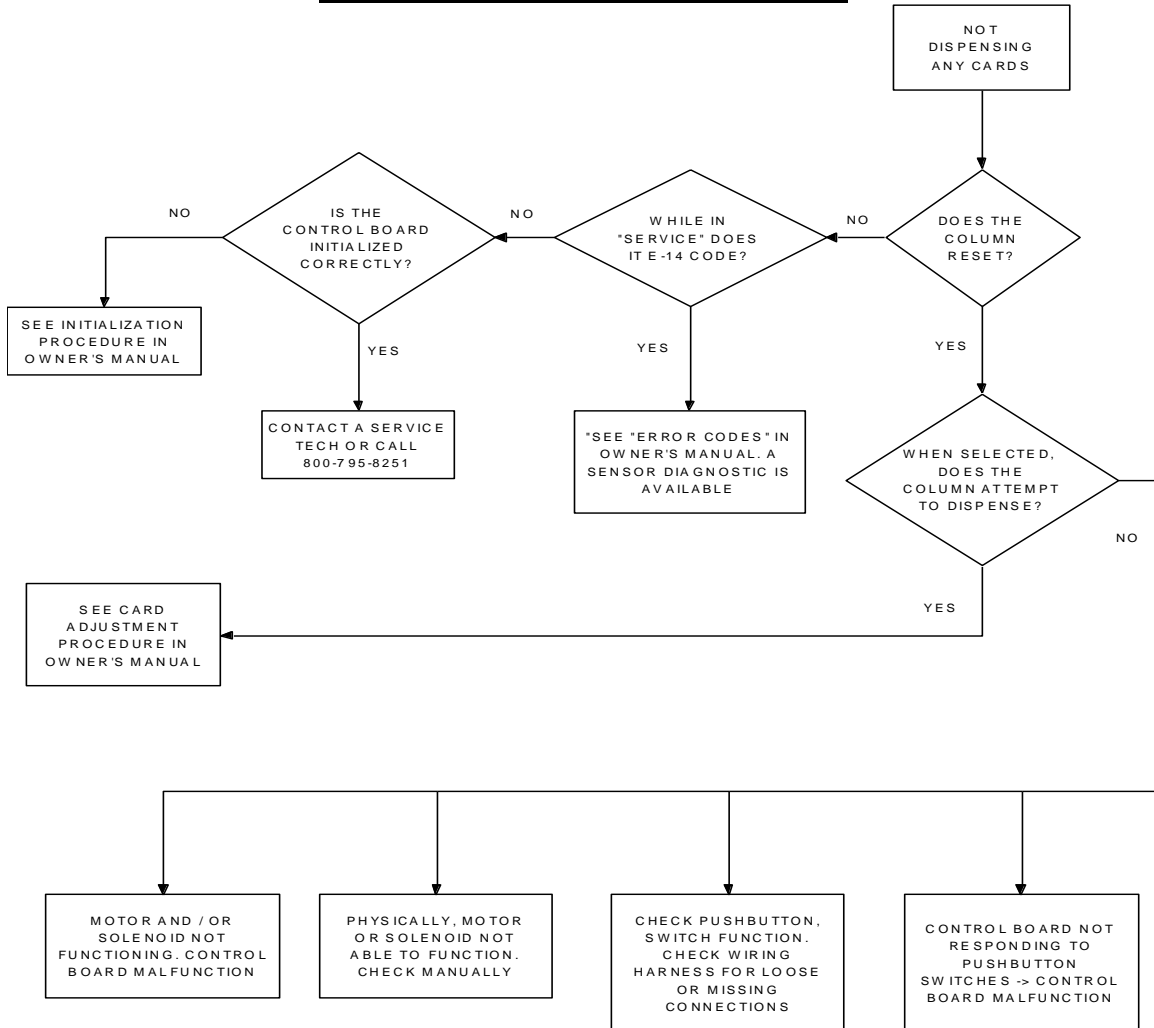
CARDS JAMMING OR HESITATING FLOW CHART



ODD COUNTS OR DISPENSING ERRORS

1. Static electricity is a major contributor to this and all other electronic equipment. You must use a 3-prong receptacle.
2. At times, usually in the winter, static problems can occur. The carpet around the machine may need sprayed with a diluted mix (10:1) of Downy softener and water (once every two weeks.) **DO NOT SPRAY MACHINE.**
3. Low voltage causes many electronic problems. If your unit is plugged into an extension cord, or is on the same line with refrigeration equipment, etc., the 115-volt supply may be less than 100 volts. Have an electrician check the voltage supplied to the machine and repair as needed.
4. The sensors may be dirty. The sensors are located along side the drive wheels. Should this sensor get filled with debris, it may not be able to function. Simply blow air on it, or use a cotton swab to clean this area.
5. Total re-programming may be needed. See the **"INITIALIZING"** procedure. This procedure erases all settings and re-settable counts. The machine must now be re-programmed

CARDS NOT DISPENSING



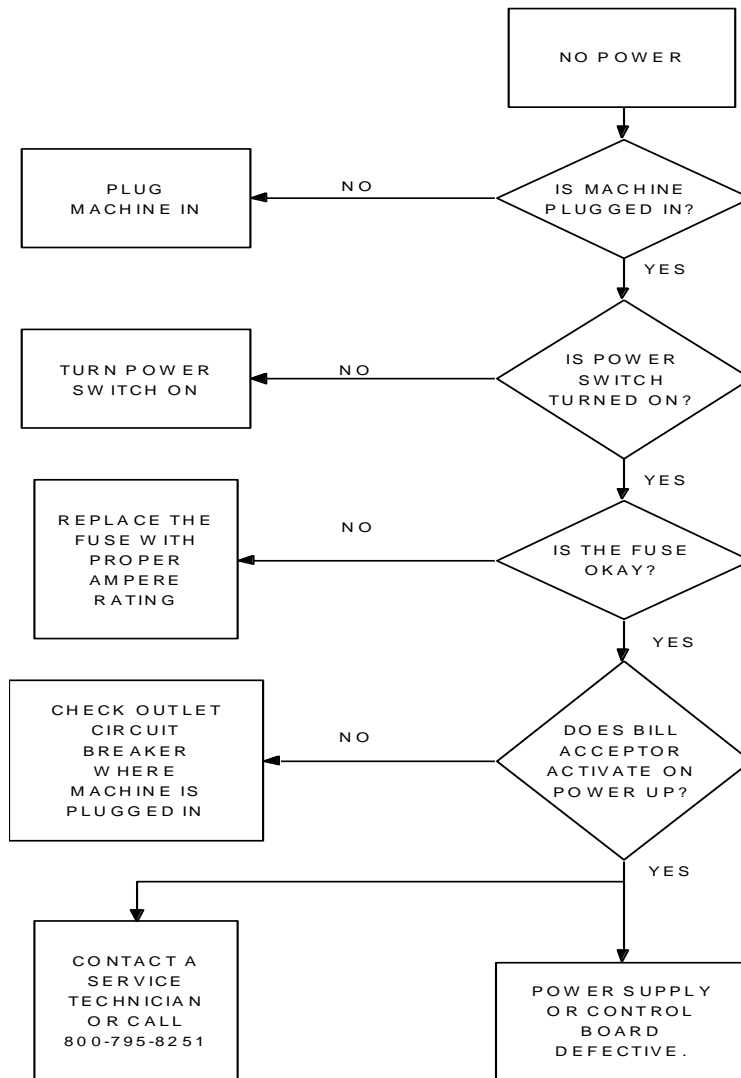
FUSE BLOWN

If the machine shuts down and nothing works, check the fuse. The machine uses a 3 AMP fuse.

POWER INTERRUPTION

It is possible that if the power dies at the same moment a card is being dispensed, the card will stop and not be dispensed. The machine recognizes this situation by displaying an **E-04** error code. The machine will not operate until reset. The single card that was dispensed will not be counted in the money or card count. To correct counts if they are off, the owner of the machine can dispense one additional card and return it to the stack.

NO POWER FLOW CHART



CALLING A SERVICE TECHNICIAN

Service is available at your fingertips. Simply call the number shown on the front of this manual or on the label placed on the inside of your machine.

WHEN CALLING FOR SERVICE, PLEASE HAVE YOUR MACHINE SERIAL NUMBER READY.

SERIAL NUMBER LOCATION

The machine serial number is located in three different places. They are inside the front of door of the machine, on the inner left side of the cabinet, and on the front of this manual.

REGULAR MAINTENANCE

Cleaning windows:

This should be done with care. Use a soft cloth with plastic cleaner. **Do not use a dry towel of any type**, this will leave scratches on the machine.

Machine Lubrication:

This should not be necessary. Improper lubrication can result in machine malfunction.

COINCO BILL ACCEPTOR

OPTION SWITCHES

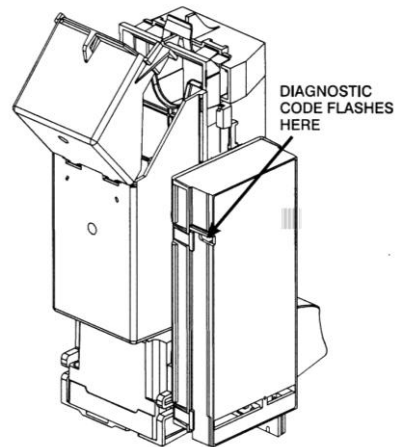
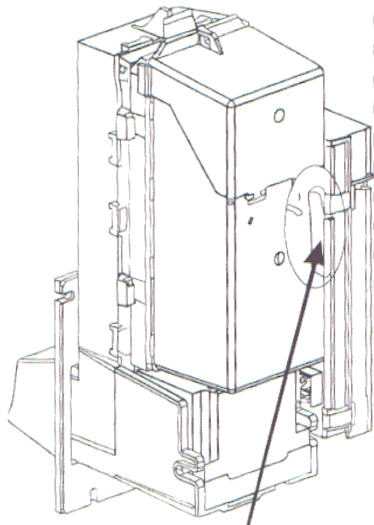
The MAG50SA control has an option switch module containing eight switches. These switches allow the unit to be customized and are normally set at Technik with positions 1, 2, 3, & 7 off.

REMOVING ACCEPTED BILLS

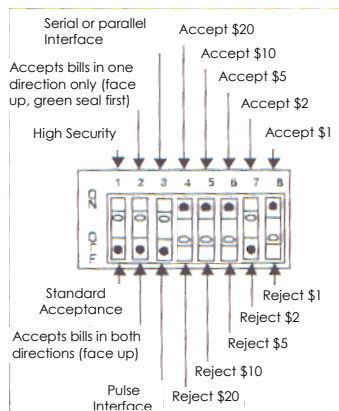
As shown in the right figure below, bills are removed by releasing bill box lid exposing bills or removing the bill box entirely from the acceptor unit.

CLEARING JAMS & CLEANING

Trapped bills or debris will result in poor bill acceptance or bill rejection. Remove bill box and lower housing to access bill path for clearing trapped bills or debris. Clean bill path plastic parts with a cloth moistened with a mild soap and water solution. Clean the magnetic head and optic sensors using a swab and isopropyl alcohol. **Do not use any petroleum based cleaning solvents, scouring pads or stiff brushes for cleaning. The Acceptor requires no lubrication at any time. ANY ATTEMPT TO REPAIR INTERNAL MECHANISM WILL VOID WARRANTY AND THERE WILL BE CHARGES FOR REPAIRS.**



Option Switch

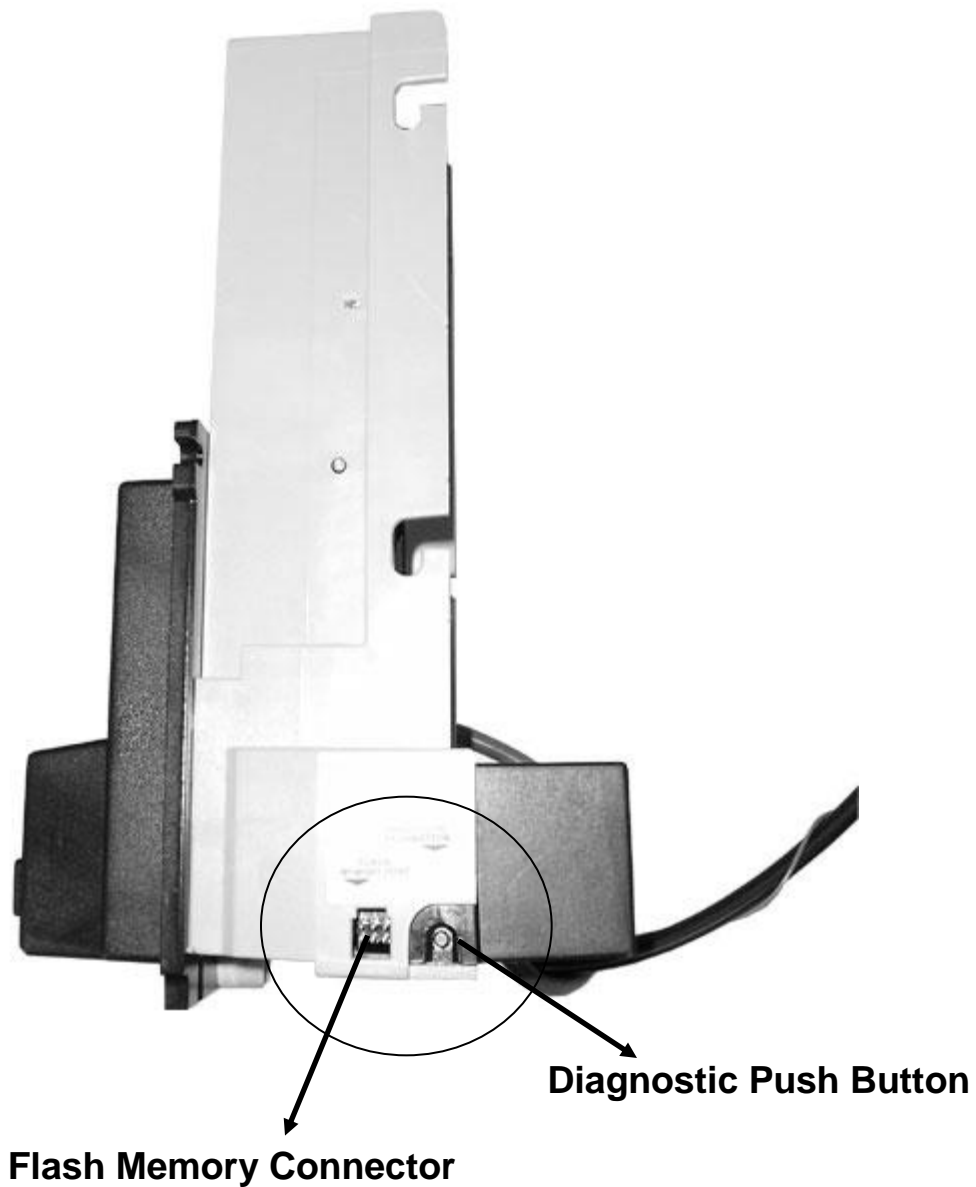


| # Of Flashes | Description of Codes | # Of Flashes | Description of Codes |
|--------------|--------------------------------|--------------|---------------------------------------|
| 1 | Bill Box Full | 11 | Center Optic Sensor |
| 2 | ----- | 12 | Right Optic Sensor |
| 3 | Check Bill Path | 13 | Left Optic Sensor |
| 4 | All Bill Accept Switches Off | 14 | ----- |
| 5 | Check Optical Sensors | 15 | Right Position Sensor |
| 6 | Stacker Motor / Home Sensor | 16 | Left Position Sensor |
| 7 | Transport Motor/encoder Sensor | 17 | Lower Board Ant-Pullback Lever Sensor |
| 8 | ----- | 18 | ----- |
| 9 | EEProm Checksum error | | |
| 10 | AM or ROM Checksum Error | | |

PYRAMID BILL ACCEPTOR

Acceptor Diagnostics

Use the Diagnostic Pushbutton on the side of the acceptor (toward the rear) as shown.



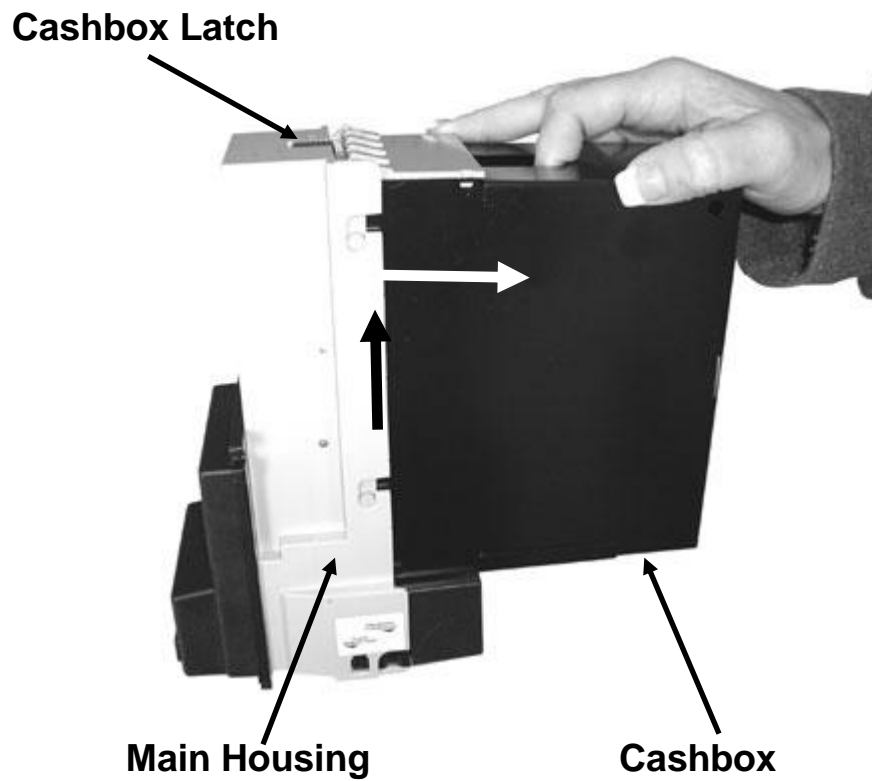
Front Bezel Lighting Flash Codes

The flash codes shown correspond to the Apex bill acceptor error. The acceptor will flash the error code, then wait 3 seconds and flash it again.

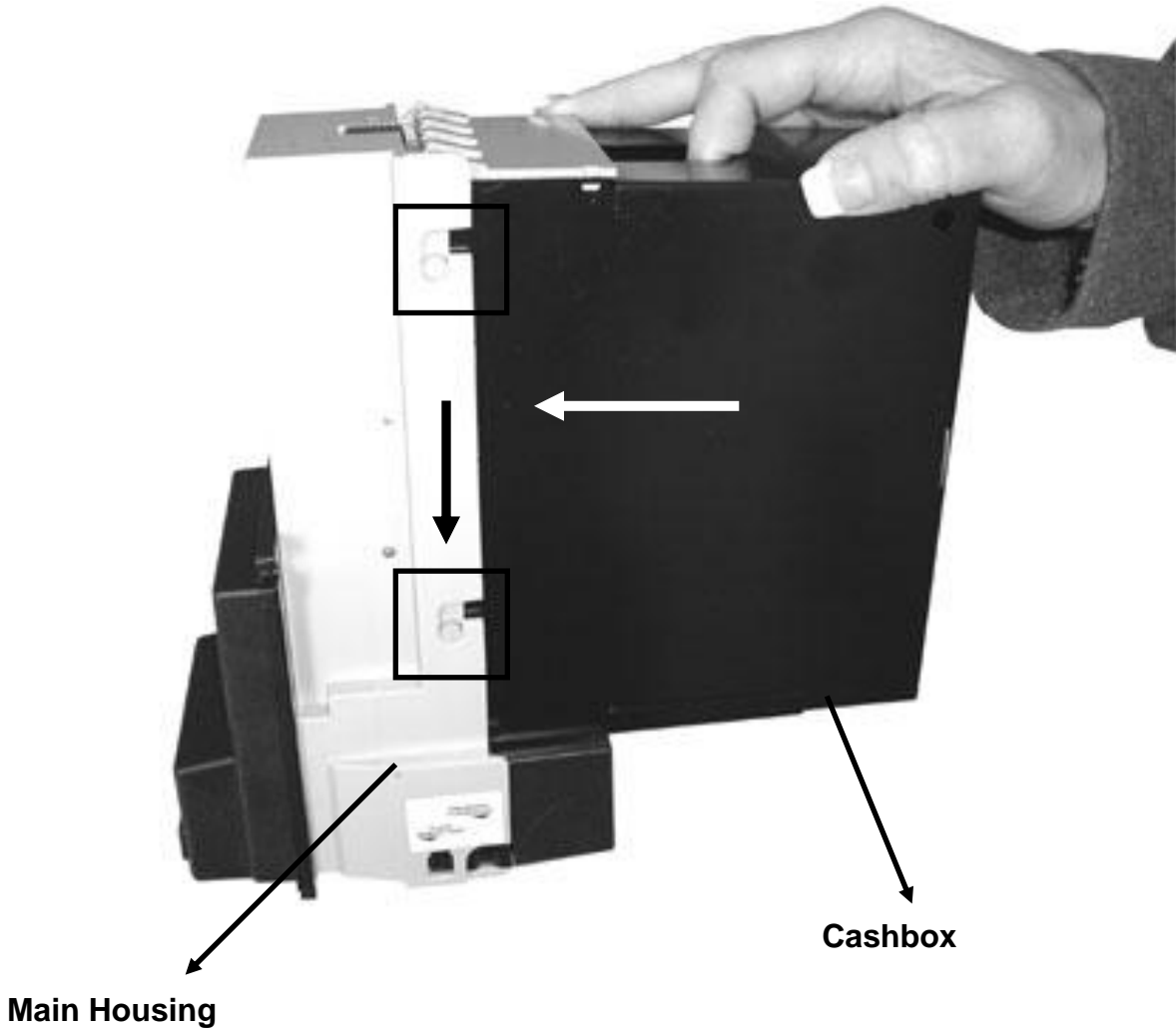
| Flashing Code | Meaning of Flashing Code | Corrective Action |
|----------------------|---------------------------------------|--|
| LED's always OFF | The acceptor has no power. | Check that power has been applied. |
| LED's always ON | No error exists – acceptor is OK. | None. |
| 1 Flash | Something is in the bill path | Remove the cassette and Lower Sensor Plate to inspect for foreign objects. Clean if necessary. |
| 2 Flashes | Something is obstructing the stacker. | Remove the cassette and Lower Sensor Plate to inspect for foreign objects. Clean if necessary. |
| 3 Flashes | The cassette is full of currency. | Remove the cassette and empty it. |
| 4 Flashes | The cassette has been removed | Replace the cassette. |
| 5 Flashes | The acceptor is defective | Replace the acceptor. |
| 6 Flashes | The acceptor is not enabled | Verify that the host has enabled the acceptor. |
| 10 Flashes | Configuration Mode has been entered. | Configuration Card must be inserted into the acceptor or cycle power to the acceptor to exit this mode. See Configuration Section for details. |

Removing the Cashbox

To remove the stacker, push back the Cashbox Latch toward the front of the acceptor. Then pull the Cashbox upward, and then pull back to remove.



Installing the Cashbox



NOTE: WHEN INSTALLING THE CASHBOX MAKE SURE THE TABS ARE PUSHED FORWARD INTO THE SLOTS ON THE MAIN HOUSING AND THEN PUSH DOWN MAKING SURE THEY CLICK INTO PLACE. IF THE CASHBOX IS NOT PROPERLY INSTALLED THE BILL ACCEPTOR WILL NOT FUNCTION.

Removal of the Lower Sensor Plate

Removal of the Lower Sensor Plate is done by pressing the locking tab in and pulling the plate back. **NOTE:** Before removing the Lower Sensor Plate make sure you unplug the 18 pin connector from the other side of the bill acceptor. It is not shown in the picture.

