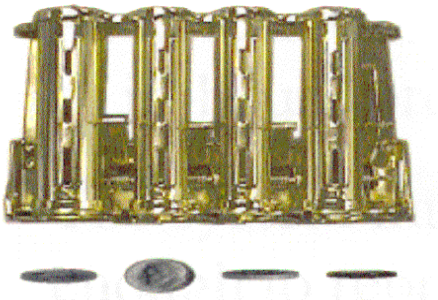


SINGLE
PHONE CARD DISPENSER
OPERATIONS MANUAL
SERIES AC501-(V)

American Changer Corp.
1400 NW 65th Place
Ft. Lauderdale, FL 33309

***Parts & Service*:(888)741-9840**
***Sales*:(800)741-9840**
***Fax*:(954)917-5204**

Internet Address: www.americanchanger.com

Table of Contents

CoinCo branches and Service centers are on the back cover of this manual.

Rev. Mono Debit A-18 Jan.'04

Specifications

Operating voltage 120 VAC +10/-15 %
Power consumpt.(controller only, add hopper and validator) 10w
Operating temperature 32 - 130 degrees Fahrenheit
Interface to Hoppers 24vdc & 12vdc 1.5 amps max.
Interface to Validators 120vac .5 amps max.

Warranty

CoinCo MAGPRO 00 BAB Validator is warranted for two years from date of purchase.

COVERED
¥ Defect in workmanship or material.
NOT COVERED
¥ Damage caused by physical abuse.
¥ Misapplication
¥ Vandalism
¥ End users attempt, on his own to repair item
¥ Cleaning maintenance

It is the End User's responsibility to follow cleaning maintenance procedure outline on page 11. Any unit coming in for repair requiring only a cleaning will be charged a flat rate of $65.00 plus shipping and handling.

Dispensing System and Logic Board

The dispenser and logic board is warranted for one year from date of purchase.

COVERED
¥ Defects caused by material or workmanship.
NOT COVERED
¥ Damage caused by physical abuse.
¥ Misapplication
¥ Vandalism
¥ End Users attempt, on his own to repair.

A Return material authorization number (RMA #) must be obtained before returning a unit for repair. A copy of invoices must accompany any and all warrantee work.

Attention Please:

American Changer is now building in a Surge Suppressor on every main logic board made after September 1st, 1998. This will help eliminate power related noise problems for our customers. It will not protect you from large voltage spikes or lightning strikes over 150VAC.

If this is a concern for your area of business, we recommend purchasing a surge protector locally.

NOTE: A POWER STRIP IS NOT A SURGE & NOISE SUPPRESSOR!

AC _____ S/N# _____

Tested By _____

Date _____

Thank You,
American Changer Corp.

UNCRATING AND SET-UP

Remove your Series AC501 phone card machine from the shipping box. Open the door. ***(The T-handle is the screw-in type and therefor, must be turned at least 10 times counter-clockwise until it opens.)*** Inspect for any connectors or components that may have been dislodged during shipping. The lock and keys for your phone card machine will be inside the manila envelope along with this manual. To install the locks, insert the cylinders into the round hole in the middle of the T-handle and push until they stop. Now turn the key and lock until you hear it "snap." Turn the key counter-clockwise ¼ turn and remove the keys.

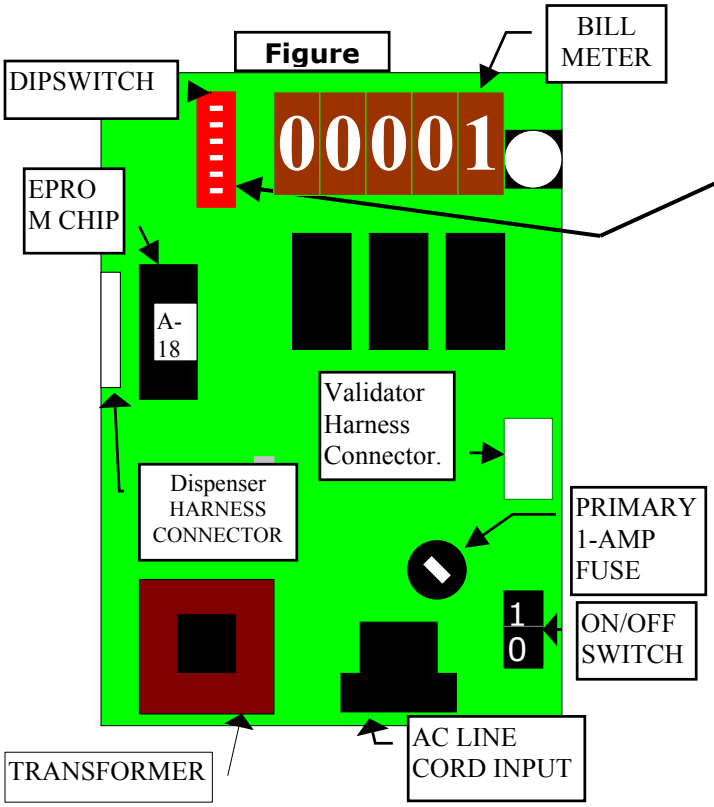
NOTE: The only way to get a duplicate set of keys made is to save the red tag that comes between the keys. This ID # starts with "ACC ####".

TEST:
Before permanently installing the phone card machine, do a functional test to verify that there is no shipping damage to your new phone card machine(s).

Extend the power cord through the hole in the back of the phone card machine or the bottom and plug it into a ***grounded 120vac outlet***. **The dip switches are already set to dispense a $10.00 card. The dollar bill acceptor is ready to accept $1-$5-$10-$20 dollar bills.**

Fill the card dispenser with at least 3 cards. On the main logic board turn the switch on the bottom right corner "ON". **(SEE FIG. 1 ON PG.3)** *The rocker switch has a "1" and "0" printed on it. When the "1" is pressed down the phone card machine is "ON".*

Figure



FILLING THE DISPENSER WITH CARDS

When the card dispenser has less than 1 card left in it the red "Empty" LED will light on the front of the phone card machine. If you have disconnected your LED make sure the orange wire is going to the terminal on the LED that has the red positive mark next to it. Whenever the "Empty" LED is "ON" the validator is disabled and it will no longer accept bills.

1. Turn OFF the power on the main logic board.
2. Cut the tie-wrap holding the "I" weight and slide it out of the dispenser through the opening on the top.
3. Place the 3 phone cards face up into the opening. (Make sure they are flat and stacked neatly.)
4. Fill up the rest of the dispenser with the remaining cards.
5. Place the "I" weight on top of the cards.
6. Turn "ON" the power switch. The "Empty" LED is now off and the dollar bill acceptor is ready to accept bills.

SETTING THE CARD PRICE

The AC501 phone card machine is capable of dispensing from a $1 to $63 card in $1 increments. Setting the cards out per dollar is controlled by which Dipswitches turned "ON." (Refer to figure 1 for their location.) For example, switch #2 & #4 is "ON"; therefor the card price is $10 per card.
The following table shows how to set the dip switches for the most common card costs.

"ON"	" COST PER CARD"
#1 & #3	$5
#2 & #4	$10
#1 & #2 & #3 & #4	$15
#3 & #5	$20
#1 & #4 & #5	$25
#2 & #5 & #6	$50

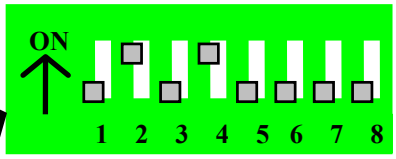


FIGURE 2

(THIS IS NOT THE DIPSWITCH BANK FOR SETTING THE BILL DENOMINATIONS.
(For those dip switches go to page 9.)

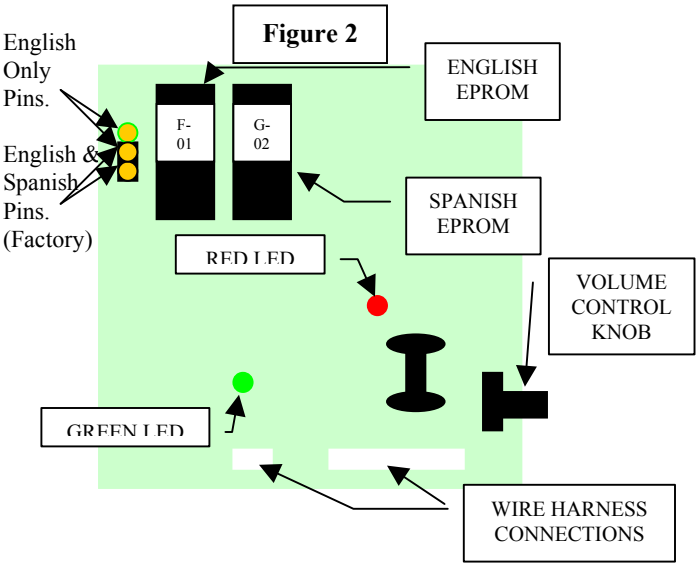
AC501-V CUSTOMERS ONLY!

Dipswitches #7 and #8 are for the voice interval for those who purchased the **AC501-V.** If you did not purchase the voice option for your machine dipswitches #7 & #8 do not apply to you and should be turned OFF. These are the voice timing intervals for the AC501-V.

"ON"	**" Voice speaks every…"**
#7	1 minute
#8	2 minutes
#7 & #8	3 minutes

AC 50V-V VOICE BOARD

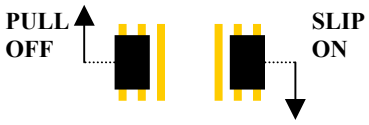
Figure 2



SETTING THE VOICE BOARD FOR ENGLISH SPEAKING ONLY.

On the right sidewall of the AC501-V there is a voice board. In the upper left corner of the voice board there are 3 gold pins that stick straight out of the voice board. They are hard to see without a flashlight. There is a black plastic cover slipped over the bottom two pins shorting them together. To make the phone card machine speak in English only, carefully pull the black plastic jumper off the bottom two pins. Now, carefully slip it over the top two gold pins (see figure 3).

FIGURE 3



FUSE

High voltage fuse: This is the primary transformer AC fuse for the main logic board and the validator. Any direct short of the Transformer or validator will cause this fuse to blow. Replace this fuse with a 1-amp GDC fuse only. ***REPLACING THIS FUSE WITH ANYTHING OTHER THAN A ½ AMP MAY RESULT IN A FIRE OR AN UNSAFE WORKING CONDITION!!*** (See fig. 1 for location of this fuse.)

Indicator Lights

Main Logic Board:

1. Green LED on: AC power applied to the logic board. All fuses are good.
2. Red LED
   - A. Heartbeat - 5 and 12vdc present. The phone card machine is in standby waiting for a bill pulse.
   - B. On Steady - Out of service, card dispenser error detected.

Validator logic board:

1. Red LED
   - A. On Steady - Standby Mode, waiting for bill insertion.
   - B. Flashing - Error mode, go to page for error code information.

   Off - The phone card machine "Empty" LED is lit.

WIRE HARNESS COLOR AND DEFINITIONS

Validator harness:

Red - Switched Hot 120VAC.
White - Neutral 120VAC.
Black - 120VAC Low current validator enable.
Yellow - +5vdc credit pulse line.
Blue - -5vdc credit pulse line.
Orange - +12vdc Empty LED.
Brown - -12vdc Empty LED.

Hopper Harness

Gray - Coin counting optic status line.
White - Low coin sense (+5vdc).
Green - Coin counting optic pay out feedback line.
Yellow - Raw sensor output line.
Purple - Hopper pay out line from main logic board (+),
Brown - Hopper pay out line from main logic board (-).
Red - +12vdc logic board supply voltage.
Black(s) - 12v, 24v low coin sense ground.
Orange - +24vdc Motor supply voltage.

Functional Description of the Series AC501 Phone Card Dispenser

To follow along with this walk-through of your phone card machine, fill the card dispenser with cards and turn the phone card machine on.

1. When power is applied the validator will cycle twice. The out-of-service LED flashes then goes out. The green LED on the main logic board comes on steady, and the red LED on the main logic board will light then go off then flicker on once per second in the standby mode.
2. During the power-up mode the main logic board relay clicks twice enabling power (120vac) to the validator. When this relay is not enabled it routes 12vdc ground to the out-of-service LED. Without power to the validator, the phone card machine cannot accept bills. Since we are not in the "Empty" mode, the red LED on the validator logic board is on steady.
3. When a bill is inserted into the validator bill slot, the bill will be pulled inside. The validator then compares what the bill looks like to its memory. After the bill is validated it grounds the 5vdc lines causing a pulse along the yellow and blue validator harness wires to pins 5 and 6 of the main logic board. Each pulse stands for the amount of the denomination validated. (i.e. 1 pulse for $1, 5 pulses for $5).
4. The 5vdc pulse then travels from pins 5 and 15 to the EPROM chip (ver. Mono A-18) pin #25. The EPROM sends a 12vdc pulse to the meter chip (U5) out pins #21 & 22 (one pulse per denomination validated). The EPROM also divides the bill pulse by the DipSwitch settings (The EPROM reads the DipSwitch settings during the power up mode and stores them into memory.)
5. The EPROM then sends the card dispenser pulses out pin #23 to pins 6 and 7 of the red 12-pin card dispenser plug. These pulses travel through the purple and brown wires of the card dispenser wire harness to the card dispenser pins 8 and 12.
6. The card dispenser turns itself on with the first card dispenser pulse. The card dispenser counts the card dispenser pulses sent from the EPROM chip on IN3 (pin 12) while dispensing the card at the same time. When the amount of card dispenser pulses in equals the cards dispensed through the coin counting optical sensor the card dispenser turns itself off.
7. The Changer returns to the standby mode with the red LED flashing once per second until another bill is inserted.

NOTE: THE METER ON THE MAIN LOGIC BOARD CANNOT BE RESET TO ZERO!!!

Functional Descriptions of Out-of-Service Conditions

Out-of-Service conditions occur for the Series AC501 phone card machine for the following reasons: low cards, card dispenser fault error, validator fault, or a blown fuse.

1. **Blown Fuse**: an AC power spike in line voltage or a bad transformer on the main logic board can cause A blown fuse on the main logic board. If either fuse blows the indication is the green LED on the main logic board will not light.
   A. Replace the fuse. If the green LED now lights then there was a spike.
   B. If it does not and the fuse blows again the power transformer is shorted. To test the transformer use a voltmeter set for ohms and measure across the primary (40ohms) and the secondary (1.5ohms).
2. **Dispenser Fault**: card dispenser faults can either be a jammed card dispenser, a blocked card counting optic or a bad dispenser logic board.
   1. Indications for a jammed dispenser, bad dispenser logic board or blocked card counting optic are the phone card machine's "empty LED is ON and the red LED on the main logic board is on steady.
   2. At this point the three options open are to attempt repair on your own, call your distributor, or return the card dispenser to American Changer.
3. **Validator Fault**: When a validator fault occurs the validator's EPROM shuts down the validator and flashes an error code via the red LED on the validator logic board. When there is no error this LED is on steady. The validator only gives bill pulses to the main logic board so the main board never knows if the validator isn't functioning. Therefore the out-of-service-LED will not light. (Seepage 6 for validator error codes.)
4. **Low Cards**: The low card condition is probably the most common fault. The EPROM on the main logic board is constantly checking for low cards in the card dispenser. This is done with a low current 5vdc signal on pin #3 of the card dispenser output connector. The voltage then travels down the card dispenser wire harness on the white wire to pin #7 of card dispenser plug. The signal is applied to micro switch. The 5v travels through the switch. It then goes through the black wire in the card dispenser harness to pin #10 on the main logic board.
   A. Check continuity, (0 ohms) resistance, from pins 3 (white) and 10 (black) of the red card dispenser harness. Make sure the card dispenser is full and the phone card machine turned off.
      1. If the continuity is 0 ohms, replace the main logic board.
      1. If the continuity is infinity, then replace the dispenser's switch.

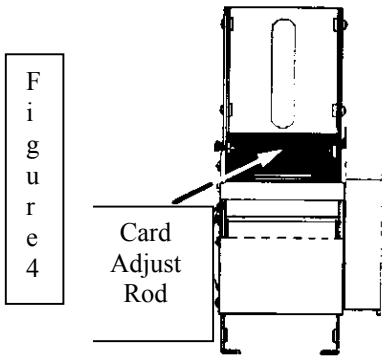
MONEY CONTROLS DCD-200 CARD DISPENSER

The DCD-200 card dispenser can dispense 3.375” X 2.125” cards between .010” to .040” in thickness.

The card capacity of the DCD-200 is 130 cards, based on .030” thickness.

Readjusting the card thickness of the DCD-200.

1. The DCD-200 comes adjusted to .030” - .040” cards unless specified otherwise while placing your machine order.
2. Remove AC power from the AC501 machine.
3. Refer to figure 4.



4. Using a #1 Phillips screwdriver, Turn the card adjustment rod located between the dispenser and the door. Clockwise to make the card size smaller, Counter-clockwise to make the card size thicker.
5. Do not over tighten, as this may force the rod through the bottom plate.
6. Vend 25 cards manually by turning the white gears to ensure adjustment is correct.

CoinCo MAG Series Flash Codes

Flash codes 1-18 may appear during normal servicing of the BA30. If more than one error or condition exists, the lower number flash code will appear until its respective error or condition is corrected. The left and right sensors referenced below are given viewing the BA30 from the front.

# of Flashes	Description of Flash Codes
1	Bill box full
2	N/A
3	Check bill path
4	All bill accept switches are off
5	Bill jam or sensor error
6	Stacker motor/home sensor
7	Transport motor/encoder sensor
8	N/A
9	EPROM Has Failed
10	EPROM Has Failed
11	Center Optic Failed
12	Right Optic Failed
13	Left Optic Failed
14	Bill Position Sensor Error
15	Right Bill Position Sensor Error
16	Left Bill Position Sensor Error
17	Lower Anti-Stringing Armature out of place
18	Upper Anti-Stringing Armature out of place

MAG
BILL ACCEPTOR

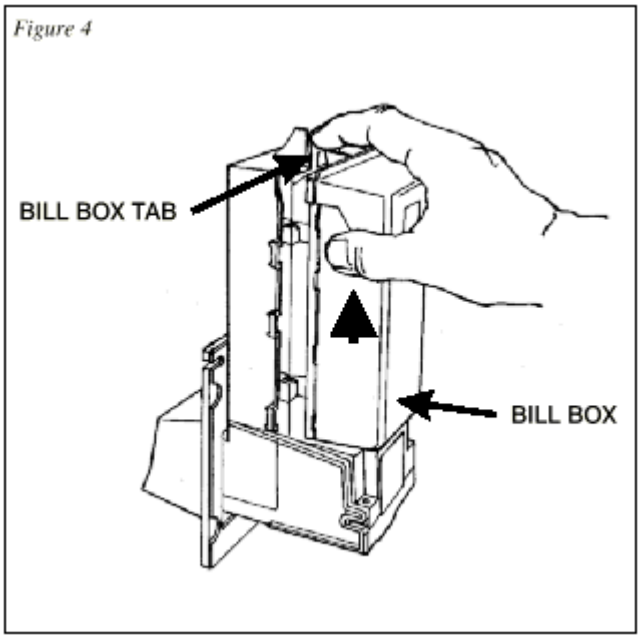
Operation and Service Manual

coinco

COINCO MAG50B VALIDATOR SECTION

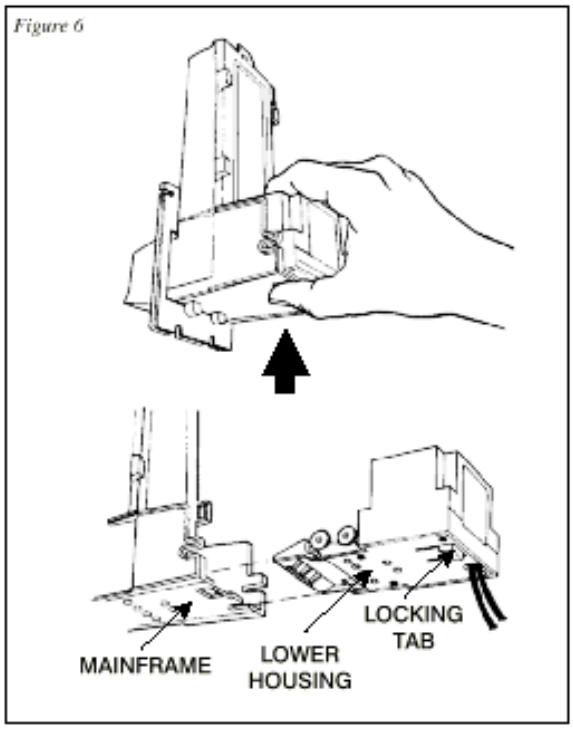
Removing the bill box.

To remove the 1000 bill stacker from the CoinCo validator follow the picture below.



REMOVING A BILL JAM

From time to time a foreign object or ripped bill will become caught in the validator. Follow the picture below to remove the item.



SETTING THE BILL ACCEPT DIP SWITCHES

Figure 1

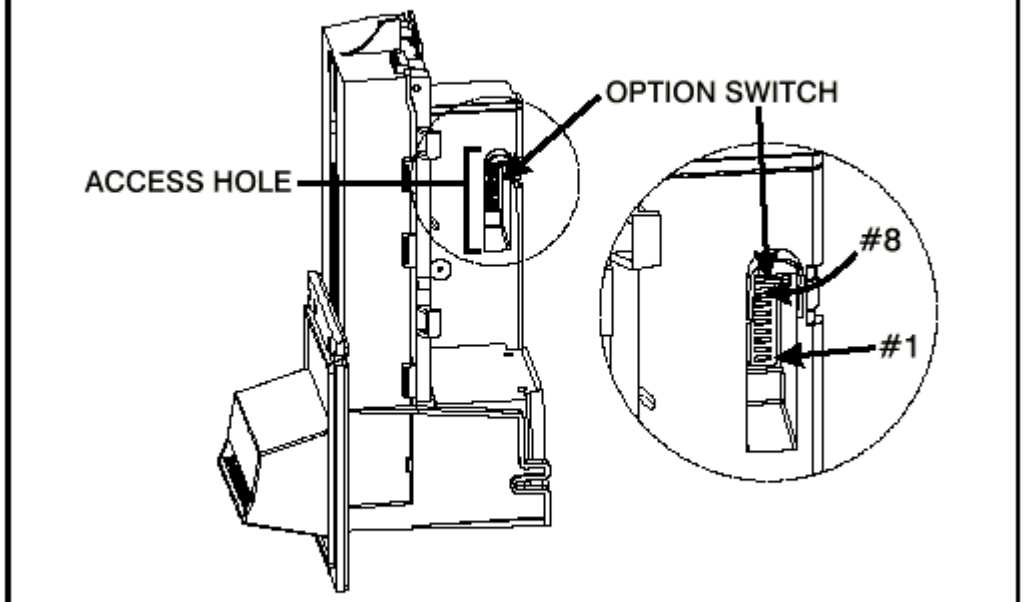
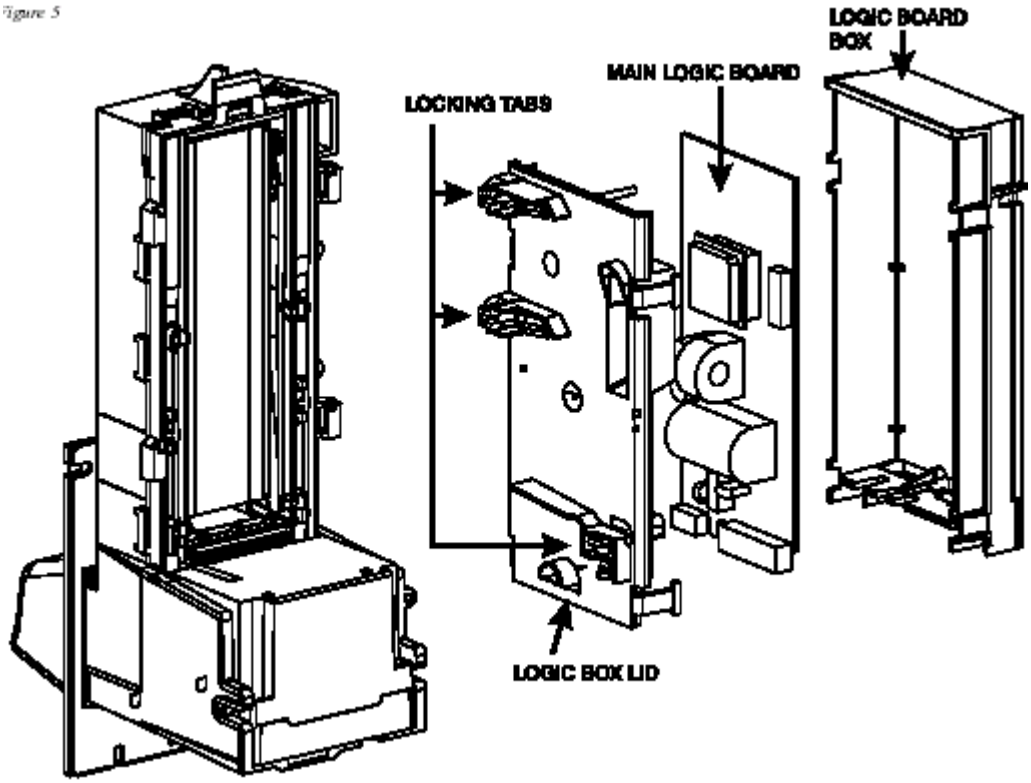
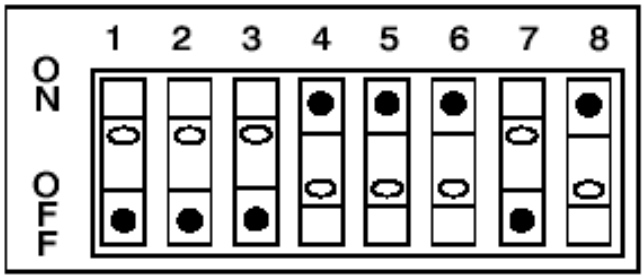


Figure 5

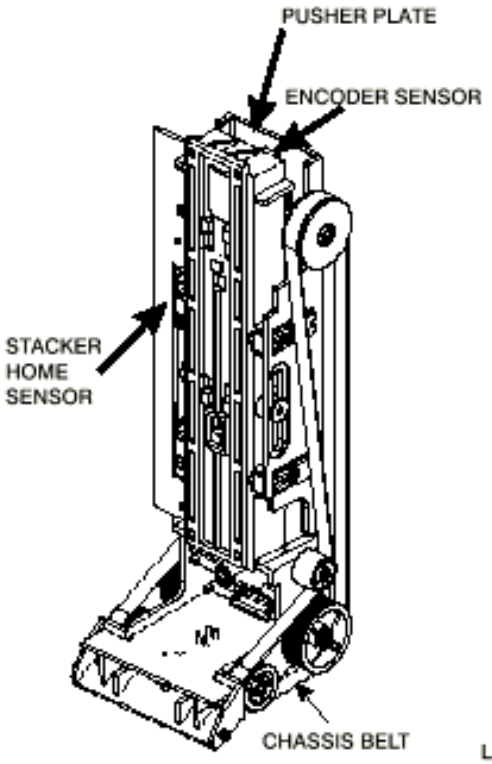


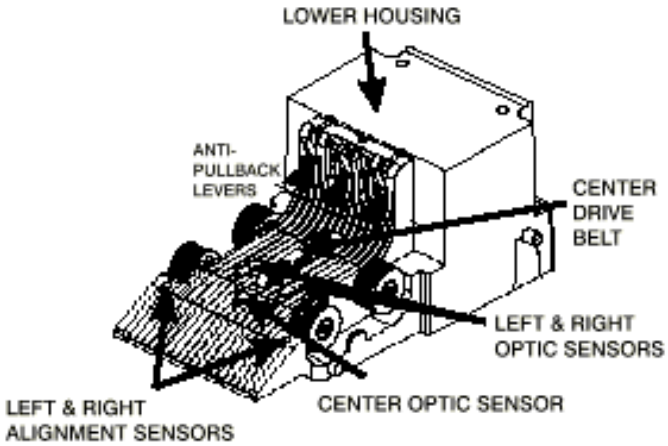
SWITCH	ON	OFF
1	High Security	Standard Acceptance
2	Accepts bills in one directions only (face up, green seal first)	Accepts bills in both directions (face up)
3	Standard credit pulse 150ms on 150ms off	Short credit pulse 50 ms on 50 ms off
4	$20 Accept	$20 Reject
5	$10 Accept	$10 Reject
6	$5 Accept	$5 Reject
7	$2 Accept	$2 Reject
8	$1 Accept	$1 Reject



CLEANING THE BILL VALIDATOR

Refer to the pictures and the procedure on the next page to clean the bill validator every 4-6 months.





MAGPRO CLEANING: IF ANY OF THESE PROCEDURES ARE PERFORMED TO YOUR VALIDATOR AFTER IT IS RETURNED UNDER A WARRANTY REPLACEMENT, YOU WILL BE SUBJECTED TO A $65.00 LABOR FEE.

CLEANING AND MAINTENANCE:

Note: *Petroleum-based cleaners and freon-based propellants can damage plastic and some electronic components. Scouring pads and stiff brushes may harm the protective conformal coating on the circuit boards and can mar the plastic. These items should never be used when cleaning the MAGPRO bill acceptor.*

The MAGPRO should be cleaned every 7,000 bills or every 4 -6 months (or as needed, depending on the environmental conditions of the location). Dust can be removed with a soft brush or cloth or it can be blown out using compressed air.

Procedure:

1. Disconnect power from the bill acceptor.
2. Remove the bill box and use a soft cloth to wipe the dust from around the intermediate frame and stacker plate.
3. Remove the lower track.
4. Using compressed air or a soft brush, blow or brush the dust off of the optic sensors and out of the recessed sensor openings.
5. Remove dust from around the belts and wheels on the lower housing and the sensors on the upper sensor board. The upper sensors are located directly above the lower housing sensor when the lower housing is installed.
6. The bill path can be cleaned to remove further dirt and oil using a soft cloth moistened with a mild soap and water solution.
7. Clean the magnetic head using a swab and isopropyl alcohol.
8. Once the lower housing is dry, place it back into the mainframe so that the tab on the bottom locks into place.
9. Blow the dust out of the encoder wheel and its sensors. (It may be necessary to extend the stacker plate to access the encoder wheel. Supplying power to the unit momentarily can do this, so that the stacker plate extends.)
10. Remove dust from the transport belt areas and from any other places of build up.
11. Remount the bill box.
12. Apply power and insert bills to verify that the unit is functions property.

MAGPRO CLEANING PROCEDURE FOR SALT WATER POLLUTED UNITS:

Note: *Petroleum-based cleaners and freon-based propellants can damage plastic and some electronic components. Scouring pads and stiff brushes may harm the protective conformal coating on the circuit boards and can mar the plastic. These items should never be used when cleaning the BA30 bill acceptor.*

Procedure:

1. Remove power from the bill acceptor.
2. Remove the bill acceptor from the vending machine.
3. Open the bill box lid and verify that the stacker plate is in the stand-by/home position. If it is not in the home position, apply power and observe that the stacker plate returns home.

Warning: *If moisture is present, allow the unit to dry thoroughly before applying power to avoid possible shock hazard. If the stacker plate does not return to the home position, remove power and carefully remove the bill box to avoid damaging the bill box and/or stacker plate.*

4. Remove the lower housing.
5. Remove the bottom cover from the lower housing.
6. Run hot water (1101/4-1401/4F) over the lower housing from the top and bottom. Using a soft brush, gently clean any residual salt. Use a soft absorbent cloth to clean any residue off the lower housing. If the transformer gets wet, allow the unit to dry for 24 hours before applying power.
7. Remove the front mask. Using hot water and a soft brush, clean the front mask, upper sensor board, main frame anti-pullback levers and position sensor mount.

Caution: The motors are not protected from water, therefore the unit must be held in a manner that prevents water from running over the intermediate frame crossbar.

8. Remove the position sensor cover on the crossbar and carefully lift the LED from its mount. (Early models only.)

Caution: Protective coating on the LED leads should not be damaged. Clean all salt residue from the mount, sensor hole and detector area.

The detector can be seen through the sensor hole, and is located in the chassis. Replace the position sensor cover. (Early models only.)

9. Verify that the anti-pullback levers move freely and that the spring returns them to their open position.
10. Allow the unit to dry thoroughly.
11. Clean the magnetic head using a swab and isopropyl alcohol.
12. Replace the front mask
13. Replace the lower housing cover.
14. Replace the lower housing into the main frame.
15. Remount the bill box.
16. Apply power and insert bills to verify that the unit is functioning properly.

6 OR 7 ERROR CODE FLASHES

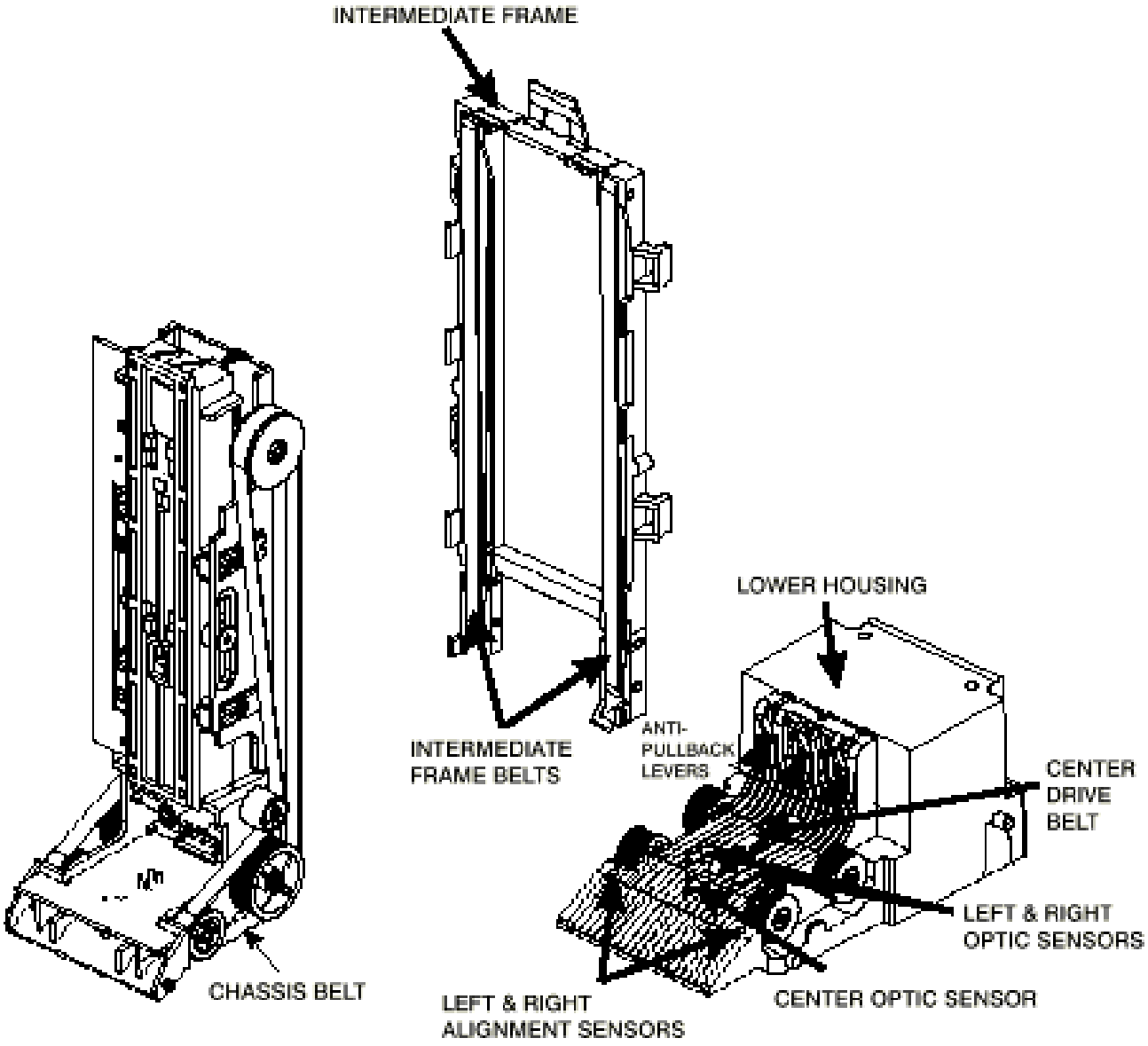
The cleaning procedure for this common occurrence is listed below. Just follow these steps.

1. If this code has occurred on a new machine or one that the validators DIP switches were just changed, Ensure that all the white plugs on the side of the validator board away from the red LED are plugged in securely.
2. Remove the bill box.
3. Turn the Changer ON then OFF in an attempt to stop the metal push plate so that it COASTS into the fully outward position.
4. Using an air compressor or a can of compressed air blow out the area behind the push plate until it is completely free of all dust and lint.
5. Turn the changer power back on so that the push plate returns to the inward position. If the same error code persists, repeat steps 1 - 3 concentrating on the top center area behind the plate.
2. Replace the bill box.

6.

REPLACING THE BELTS

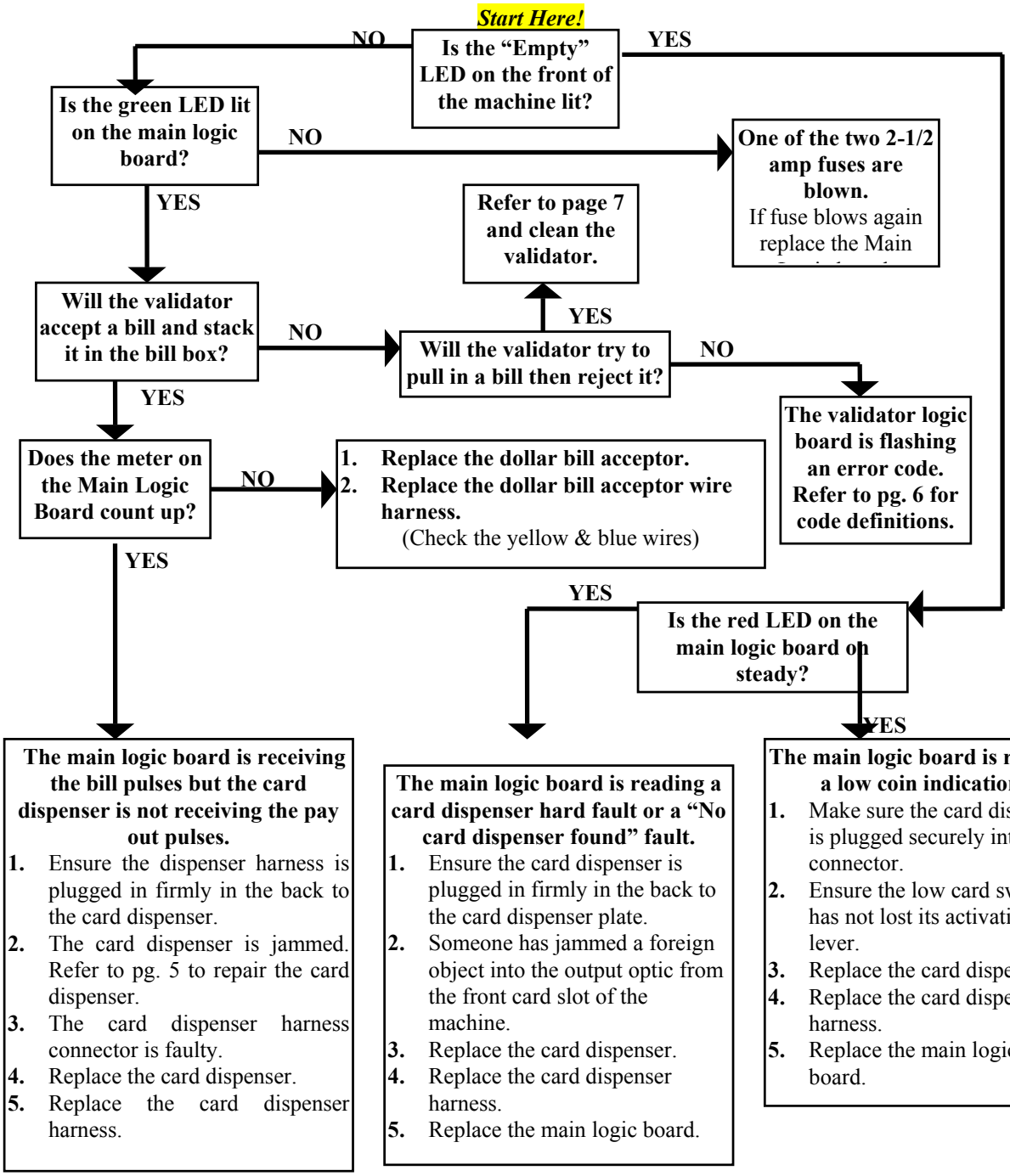
Every 2-3 years the belts on the CoinCo will wear out. To replace them, remove the validator components down to the picture show. Refer to the parts diagram at the end of the manual for help getting to this point.



TECHNICAL FLOW DIAGRAM FOR THE AC501 SERIES

NOTE: Before starting this procedure ensure the phone card machine is plugged in, the ON/OFF switch is on, The card dispenser is full of cards, and all wire harnesses are connected securely and correctly.

The wires exiting the red connectors should point away from the board!



For a more detailed trouble shooting information proceed to the next section!

ANY REPAIR RETURNED WITHOUT A RETURN AUTH. # WILL BE REFUSED!

TROUBLESHOOTING GUIDE

TO USE THE TROUBLESHOOTING GUIDE, MATCH UP THE PROBLEM, THEN FOLLOW THE SOLUTION SUGGESTIONS. After every step re-try operating the changer to see if the problem has been solved.

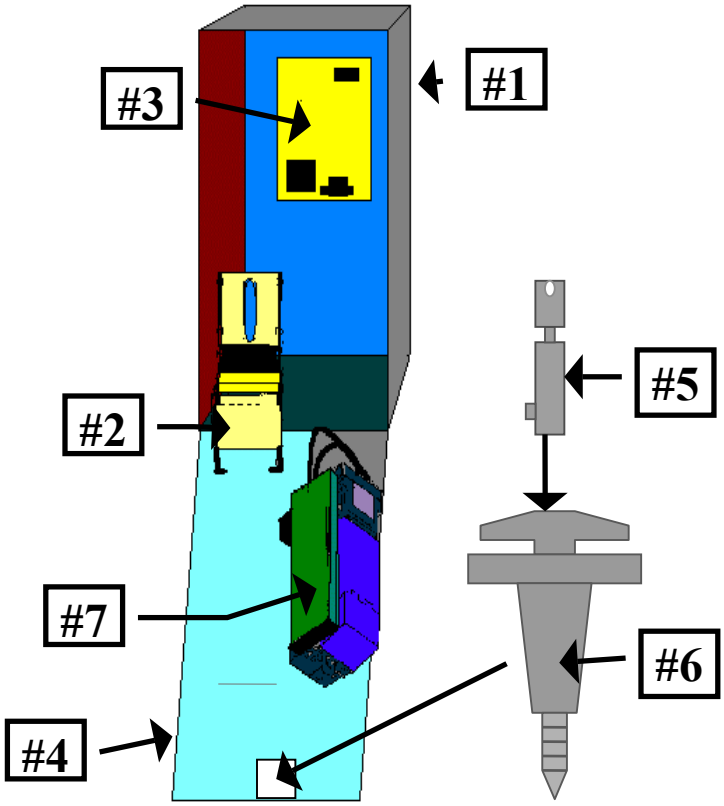
Problem:	***Solution:***
A. **The phone card machine is completely dead.** (The green LED on the main logic board is not lit.)	1. Ensure the phone card machine is plugged in. 2. Ensure the on/off switch is rocked to the (1) position (down). 3. Unplug the female end of the line cord from the main logic board AC connector and plug it in again tightly. 4. Measure the AC voltage at the outlet or check the breaker/fuse box. You can also plug another item into the AC wall outlet to ensure there is power present at the outlet. 5. Inspect the AC line cord for cuts or abrasions. 6. Check both fuses on the Main Logic Board. 7. Replace the main logic board. 8. Replace the line cord.
B. **The "Empty LED is lit.**	1. Ensure the card dispenser is not out of cards. 2. Check the card dispenser wire harness that extends from the back of the card dispenser to ensure it is plugged in firmly. 3. Check the card output slot for foreign material. 4. Replace the card dispenser. 5. Replace the card dispenser wire harness.
C. The green LED on the main logic board is lit but the red LED never lights.	1. Bad 5 or 12vdc regulator on the main logic board. 2. The card dispenser is shorted. 3. Replace main logic board. 4. Replace card dispenser.
D. The dollar bill acceptor accepts and stacks the money but the bill meter never counts up.	1. Check continuity and for pin damage to the blue and yellow wires on the validator harness. 2. Replace the validator wire harness. 3. Replace the validator.
F. The dollar bill acceptor stacks the bills, the meter counts up, but the card dispenser does not pay out.	1. Ensure the dip switch settings are still correct. (#2 & "4" "ON" only) 2. Check the continuity of the brown and purple wires on the card dispenser wire harness. 3. The card dispenser is jammed. Go to pg. 6. To unjam the card dispenser. 4. Replace the card dispenser wire harness.

TROUBLESHOOTING GUIDE

TO USE THE TROUBLESHOOTING GUIDE, MATCH UP THE PROBLEM, THEN FOLLOW THE SOLUTION SUGGESTIONS. After every step re-try operating the changer to see if the problem has been solved

PROBLEM:	*SOLUTION:*
H. The dollar bill acceptor pulls in the bill slightly then rejects it.	1. Clean the validator. (pg. 9) 2. Remove the lower housing (pg. 11) of the dollar bill acceptor. Ensure the center wheel spins freely. Push straight down on it slightly to loosen.
I. The dollar bill acceptor red status LED flashes a "5" error code.	1. Clean the validator optic LED's. (See pg. 7) 2. Ensure that all the wire harness plugs are plugged firmly into their white female sockets. 3. Turn to the back page of this manual and check for a Coin Acceptors branch in your area to repair your dollar bill acceptor.
J. The dollar bill acceptor red status LED flashes a "6 or 7" error code.	1. Take the bill stacker off the dollar bill acceptor. Cycle the power on / off using the switch on the main logic board and coast the silver push bar so that it stops in its fully extended position. Blow out the area behind the push bar with high pressure or canned air. Concentrate on the encoder wheel in the area top center behind the push bar. 2. Turn to the back page of this manual and check for a Coin Acceptors branch in your area to repair your dollar bill acceptor.
K. The dollar bill acceptors red status LED is on steady but it still will not accept the bill.	1. Pull out the lower housing, see page 8, and look for something obstructing the bill path. (I.e. gum; paper tickets, cards, etc.) 2. Look inside the Plexiglas case on the side of the dollar bill acceptor. Ensure that all the wire harness plugs are plugged firmly into their white female sockets.
L. The red "empty" LED on the outside of the phone card machine is on, the red status LED on the main logic board is flickering on and off normally, and the card dispenser is full of cards.	1. Ensure the card dispenser is not out of cards. 2. Check the card dispenser wire harness that extends from the back of the card, ensure it is plugged in firmly. 3. Ensure the silver armature lever below the cards has not broken off. 4. Replace the card dispenser. 5. Replace the card dispenser wire harness.
	ANY REPAIR RETURNED WITHOUT A RETURN AUTH. # WILL BE REFUSED!

PARTS LIST FOR THE AC501



AC501 PARTS LIST
(SHOWN ABOVE)

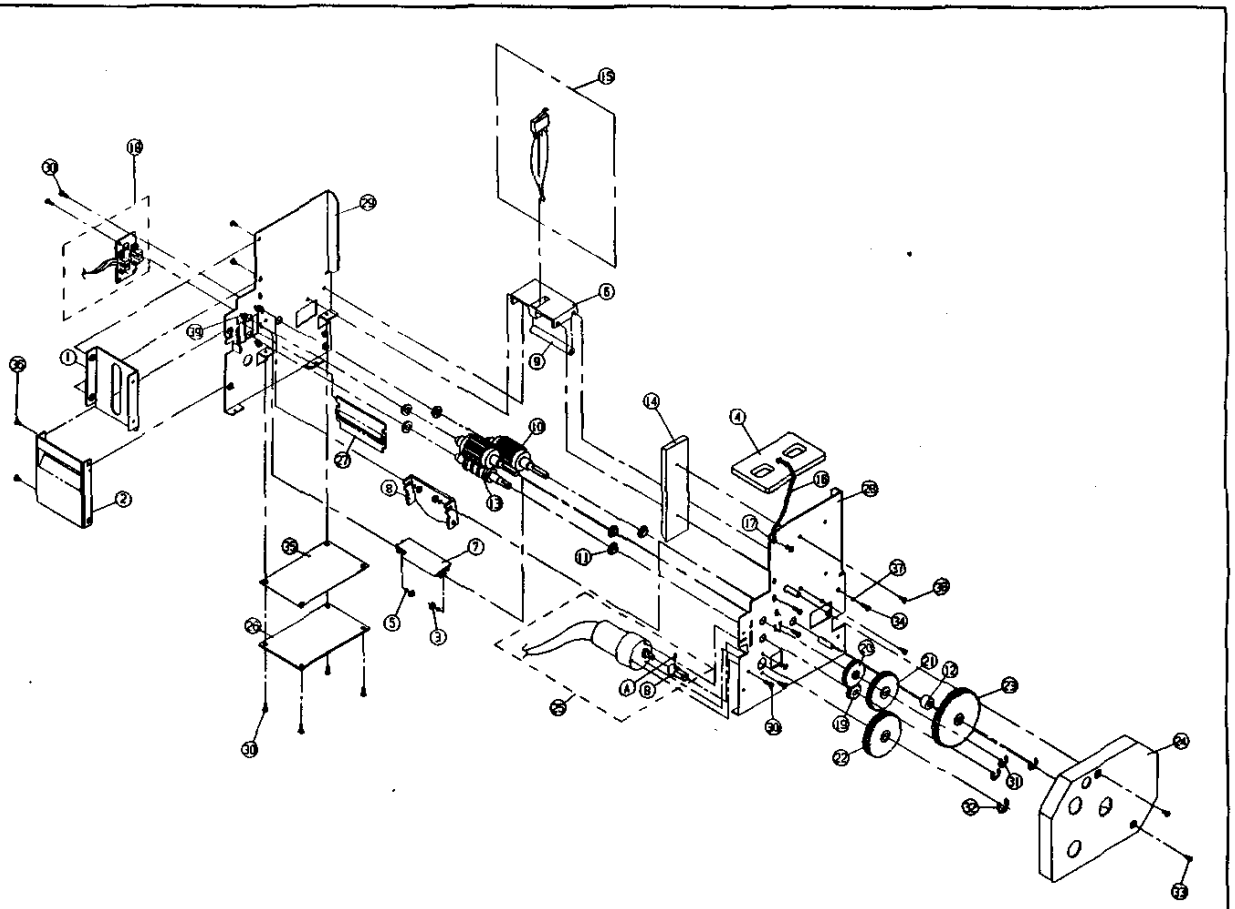
1. **AC5010** - CABINET COMPLETE W/ COIN CUP (#2) & LOCK BRACKET (#3).
2. **AC5041.1** - COIN CONTROLS DCD200 CARD DISPENSER.
3. **AC1063** - MAIN LOGIC BOARD.
4. **AC1082** - FULL FACE LEXAN FRONT.
5. **AC1093** - LOCK AND KEY
6. **AC5080** - SCREW-IN T-HANDLE.
7. **AC9001.1** - COINCO BILL VALIDATOR.

AC501 OPTIONAL PARTS LIST
(ITEMS NOT SHOWN.)

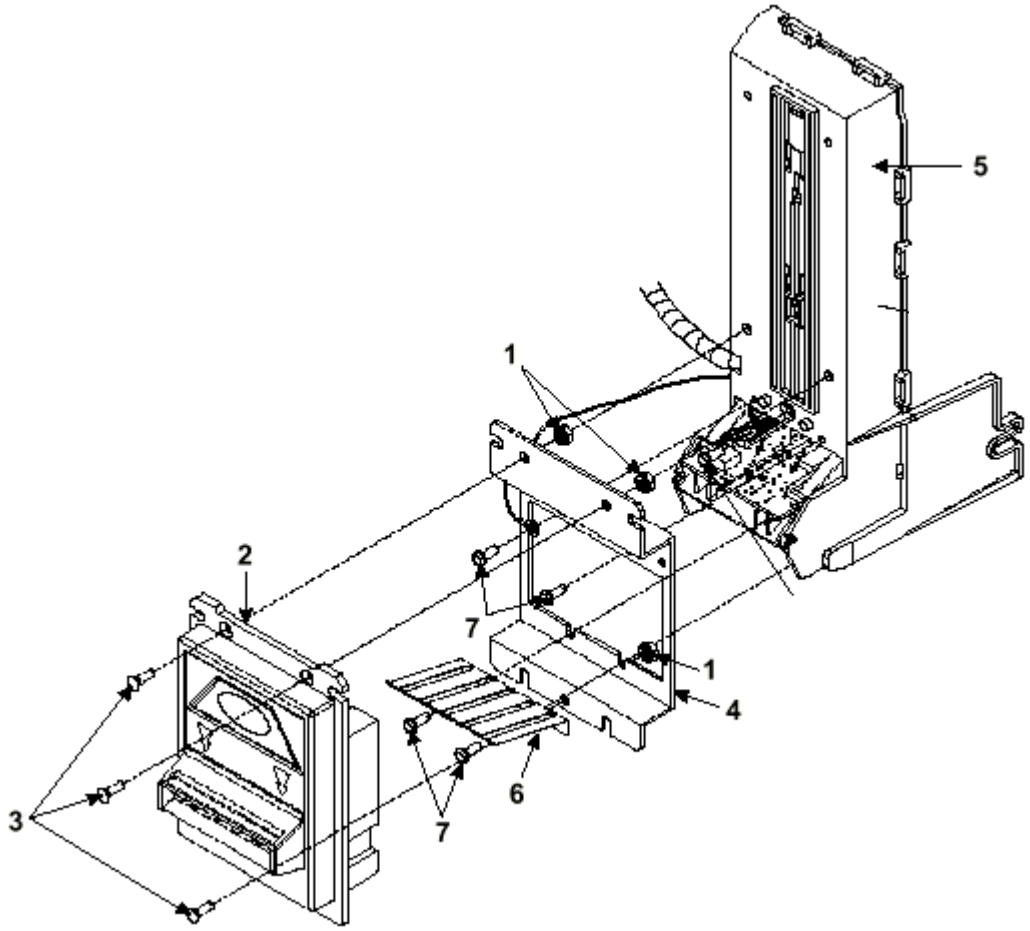
AC5043.1- CARD EXTENSION (170 CARDS)
AC1043 - 450 BILL STACKER
AC1051 - 2 OUTLET SURGE PROTECTOR
AC1052 - 4 OUTLET SURGE PROTECTOR
AC5015 - LIGHT-UP DOME TOP
AC1091 - TILT ALARM ONLY
AC5070.1- BASE (PEDESTAL)
AC5071.1- BASE PLATE
AC5061 - VOICE BOARD W / SPEAKER

COIN CONTROLS DCD-200 DEBIT CARD DISPENSER

#	C.C.L. PART #	DESCRIPTION	QTY
1	69-1000-03	UPPER PLATE	1
2	69-1000-44	LOWER FRONT PLATE	1
3	92-0100-18	M3.5 NUT	4
4	69-1000-07	CARD WEIGHT	1
5	92-0100-09	M3.5 LOCKWASHER, EXT. TOOTH	4
6	69-1000-10	REAR SUPPORT PLATE	1
7	69-1000-11	FRONT SUPPORT PLATE	1
8	69-1000-12	CARD ADJUST PLATE	1
9	69-1000-13	FRAME SPACER	1
10	69-1000-15	UPPER ROLLER	2
11	69-1000-17	BEARING	6
12	69-1000-18	SPACER	1
13	69-1000-52	LOWER SHAFT ASSY	1
14	69-1000-20	CARD POSITIONER	1
15	69-1000-51	MICROSWITCH ASSY	1
16	69-1000-22	RETAINING CHAIN	6"
17	69-1000-23	CONNECTOR CLIP	2
18	69-1000-53	OPTICAL SWITCH ASSY	1
19	69-1000-25	GEAR #1	1
20	69-1000-26	GEAR #2	1
21	69-1000-27	GEAR #3	1
22	69-1000-28	GEAR #4	1
23	69-1000-29	GEAR #5	1
24	69-1000-45	COVER PLATE	1
25	69-1000-50	24 VDC MOTOR ASSY	1
25A	92-0100-11	SOCKET HEAD SET SCREW ONLY	1
25B	69-1000-30	MOTOR SHAFT ONLY	1
26	69-1000-32	PCB	1
27	69-1000-49	GUARD PLATE	1
28	69-1000-46	RIGHT SIDE PLATE	1
29	69-1000-48	LEFT SIDE PLATE	1
30	92-0100-13	M3 X 8MM SCREW	10
31	91-1008-40	SMALL "E" RING	3
32	91-1008-41	LARGE "E" RING	1
33	92-0100-19	M3 X 8MM FLAT HEAD SCREW	2
34	92-0100-12	M3.5 X 8MM SCREW	6
35	69-1000-39	PCB INSULATOR	1
36	92-0100-14	M3.5 X 6MM SCREW	9
37	92-0100-15	M3.5 LOCKWASHER	3
38	92-0100-16	M3 X 6MM TAP-FITE SCREW	2
39	92-0100-17	M3 ELASTIC SLEEVE NUT	3

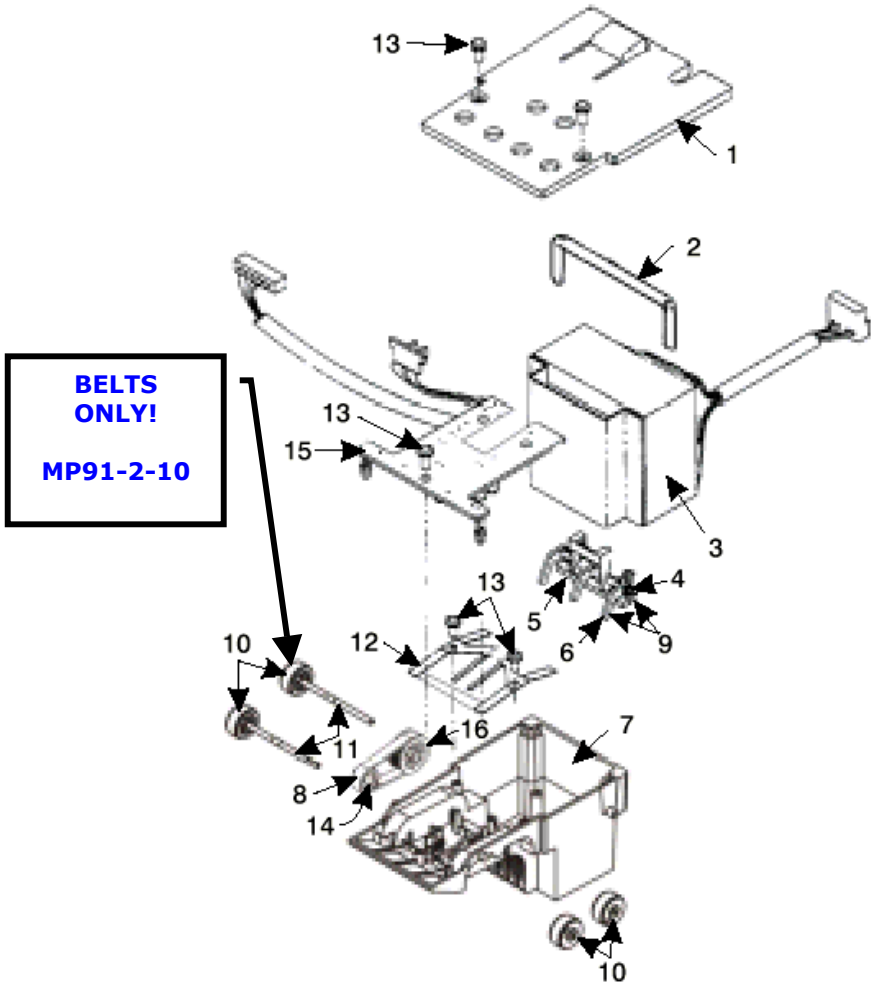


COINCO PARTS LIST



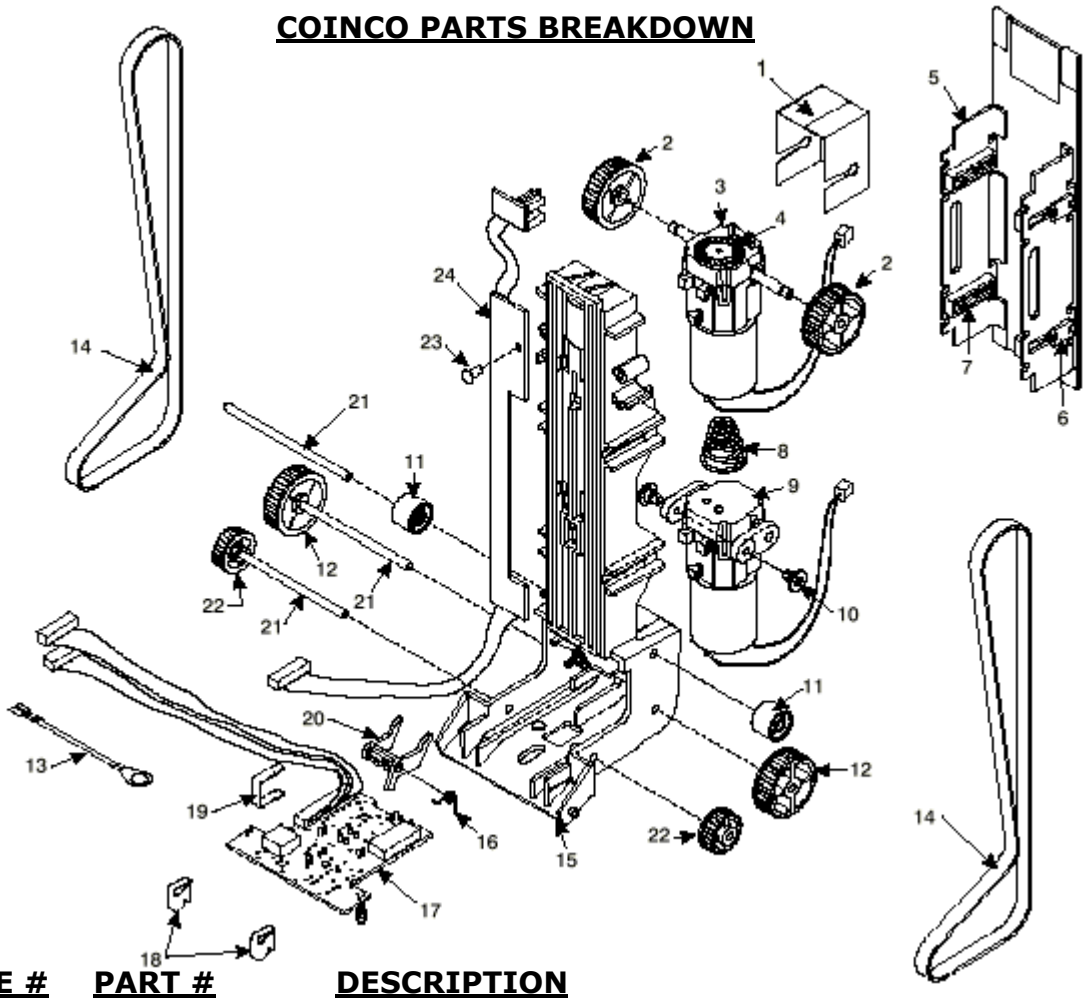
PICTURE #	PART #	DESCRIPTION
#1	MP90-1-1	Machine Screw
#2	MP91-1-2	"Snack Mask" Black Plastic
#3	MP90-1-3	Machine Screw
#4	MP90-1-4	Main Frame, Plastic
#5	MP91-1-5	Mask Gold Mounting Bracket
#6	MP90-1-6	Bill grounding spring
#7	MP91-1-7	Machine Nut

COINCO PARTS BREAKDOWN



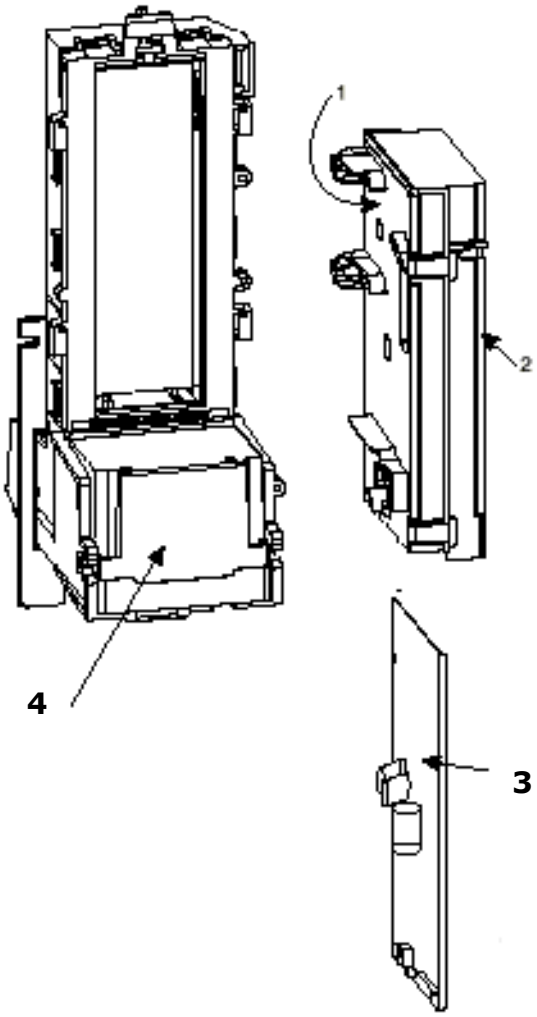
PICTURE #	PART #	DESCRIPTION
#1	MP90-2-1	Bottom Lower Housing Cover
#2	MP90-2-2	Transformer holding hose
#3	MP90-2-3	120VAC Transformer
#4	MP90-2-4	Lower Spring, Anti-Cheat Lever
#5	MP91-2-5	Lower Mounting, Anti-Cheat Lever
#6	MP90-2-6	Lower Anti-Cheat Lever
#7	MP90-2-7	Lower Housing Assembly, Complete
#8	MP90-2-8	Belt, Center
#9	MP90-2-9	Lower Anti-Cheat Assembly, Complete
#10	MP90-2-10	Plastic Wheels & Rubber Belts
#10	**MP91-2-10**	**Rubber Belts ONLY (Each)**
#11	MP90-1-11	Shaft, Drive
#12	MP90-2-12	Spring, MAG
#13	MP90-2-13	Screw, #4, Plastic
#14	MP90-2-14	Roller, Idler
#15	MP91-2-15	Sensor Board, Lower
#16	MP91-2-16	Pulley & Hub Assembly, Complete

COINCO PARTS BREAKDOWN



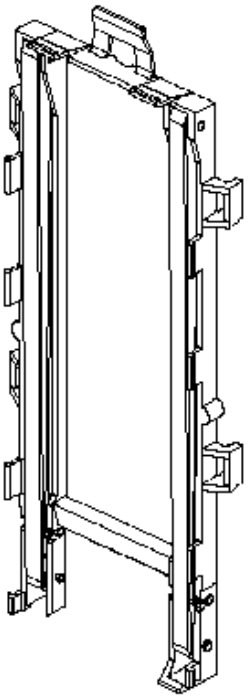
PICTURE #	PART #	DESCRIPTION
#1	MP90-3-1	Dust Cover
#2	MP90-3-2	Upper Transport & Hub Assembly, Complete
#3	MP91-3-3	Motor, Transport & Gear Assembly Complete
#4	MP90-3-4	Wheel, Encoder
#5	MP90-3-5	Stacker, Push-Plate Assembly
#8	MP90-3-8	Spring, Belt Tension
#9	MP90-3-9	Motor, Stacker Assembly Complete
#10	MP90-3-10	Pulley, Idler
#11	MP90-3-11	Lower Transport Pulley & Hub Assembly
#13	MP90-3-13	Belt, Upper Housing
#14	MP90-3-14	Frame, Upper Housing
#15	MP91-3-15	Sensor Board, Upper Housing
#16	MP90-3-16	Upper Board Clip
#17	MP90-3-17	Wire Clip
#18	MP90-3-18	Shaft, Pulley
#19	MP90-3-19	Shaft, Wheel
#21	MP90-3-21	Board, Stacker

COINCO PARTS BREAKDOWN



INTERMEDIATE RAME ASSEMBLY

MP90-4-IF



PICTURE #	PART #	DESCRIPTION
#1	MP90-4-1	Lid, Logic board Box
#2	MP91-4-2	Body, Logic board Box
#3	MP90-4-3	Main Logic Board
#4	MP90-4-4	Sticker, Serial Number / Warranty
#5	MP90-4-IF	Intermediate Frame with Bearings

CoinCo Authorized Service Centers

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3226 S. Fair Lane
Tempe, AZ 85282
Phone: 602-431-0632
Chris Mattingly

California
11618 E. Washington Blvd.
Suite # J
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Phone: 562-692-3059

FLORIDA
Tampa
6704 Benjamin Road
Suite 200
Tampa, FL 33634
Phone: 813-249-7338
Bob Wilcox

Ft. Lauderdale
American Changer
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Ft. Lauderdale, FL 33309
888-741-9840
RMA# Needed

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Carl Goodson