

TICKET DISPENSER

OPERATIONS MANUAL

SERIES AC111/115/125

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*Coinco Authorized Service Centers are listed
at the end of this manual (pg. 26)*

Specifications

Operating voltage	120 Volts AC; 50-60 Hz.
Power consumption	Controller: 10W (add Validator and Ticket Dispenser)
Operating temperature	32 - 130 degrees Fahrenheit
Interface to Ticket Disp.	12 Vdc; 0.4A avg., 1.5A Max.
Interface to Validator	95-130VAC; 0.2A Stby - 0.75A Max

Warranty

The **CoinCo MAG50BAB** Validator is under warranty for two years from date of purchase.

The **Deltronic Labs DL-1275** Ticket Dispenser and the dispenser's Main Logic Board are under warranty for one year from date of purchase.

COVERED

¥ Defects in workmanship or materials

NOT COVERED

¥ Damage caused by physical abuse

¥ Misapplication

¥ Vandalism

¥ End user's attempt to repair item on his own

¥ Cleaning & Maintenance

It is the End User's responsibility to follow proper cleaning & maintenance procedures. Any unit coming in for repair requiring only a cleaning will be charged a flat rate of \$65.00 plus shipping and handling.

NOTE:

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

Attention Please:

To ensure the most trouble-free machine operation, we recommend plugging all our machines into a DEDICATED AC outlet. (This means there are no other machines on location plugged into the same AC line.) A simple way to check if this is true is to turn off the breaker at the fuse box associated with our machine. No other machines on location should lose power or turn off.

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 PROTECTOR.

AC _____ S/N# _____

Tested By _____

Date _____

**Thank You,
American Changer Corp.**

UNCRATING AND SET-UP

Remove your AC111/115/125 Series ticket dispenser from the shipping box. Open the door. (*The T-handle is a screw-in type and therefore, 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 dispenser will be inside the manila envelope along with this manual. To install the lock, insert the cylinder into the round hole in the middle of the T-handle and push until it stops. 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 dispenser, do a functional test to verify that there is no shipping damage to your new dispenser(s).

Plug the power cord into a *grounded 120VAC outlet*. The DIP Switches on the Main Logic Board are preset for a default payout of 4 tickets per dollar from the Ticket Dispenser (unless otherwise specified at the time of purchase), and the Bill Validator is ready to accept \$1, \$5, \$10, and \$20 bills.

If not already done, fill the ticket bin with tickets, and load the dispenser by following the instructions on pgs. 4-5. On the Main Logic Board turn the switch on the bottom right corner "ON". (See Fig. 2 on pg. 5) *The rocker switch has an "I" and an "O" printed on it. When the "I" is pressed down the ticket dispenser is "ON".* Wait at least 30 seconds after powering ON the unit before inserting any bills to allow it to finish its start-up procedure.

MOUNTING THE AC111 TO A WALL

IF YOU ARE UNSURE IN ANY WAY IN PROCEEDING WITH THE FOLLOWING STEPS, PLEASE HIRE A LOCAL PROFESSIONAL ELECTRICIAN TO MOUNT YOUR TICKET DISPENSER FOR YOU!

1. Disconnect any and all AC power going to the unit. (Unplug AC Line cord from the Main Logic Board and from the wall)
2. Remove the Ticket bin by sliding it up, then out and away from the door. Take off the DL-1275 Dispenser the same way, by pushing up until it 'clicks', then pulling it away from the door.
3. Note: You will need to verify with the building code to see if it is allowable to plug the dispenser into a 3 prong grounded outlet. If it is not, there must be 120VAC run through conduit or other means to the unit to meet local codes. If it is not required, proceed to step #6.
4. Let the electrician run the conduit, install the new breaker, wire and help decide how the wiring will enter the ticket dispenser (from the back or the bottom). This will affect the mounting location.

5. After the conduit has been installed, proceed with the mounting.
6. Locate the 4 punch-outs on the back of the cabinet. Using a screwdriver and hammer, knock the punch-outs out by hitting them from the inside of the dispenser.
7. Find an appropriate wall to bolt the ticket dispenser to. The wall should have studs or be constructed of concrete. Consult a professional with any questions you may have.
8. **NOTE: HANGING THE TICKET DISPENSER FROM LESS THAN THOSE HOLES PROVIDED MAY BE DANGEROUS. EACH HOLE NEEDS A BOLT THROUGH IT MOUNTED SECURELY TO THE WALL. MOUNTING THE DISPENSER IN ANY OTHER WAY MAY RESULT IN THE UNIT BEING TORN OFF OR FALLING OFF THE WALL RESULTING IN PERSONAL OR CUSTOMER INJURY ALONG WITH ELECTRICAL SHOCK.**
9. Choose a height to mount the dispenser keeping in mind that a handicapped person in a wheelchair should still be able to insert a bill into the bill validator. (We recommend no higher than 4 feet above the ground.)
10. Have someone hold the ticket dispenser against the wall while someone else marks the holes. **CAUTION: THE TICKET DISPENSER WEIGHS 35 POUNDS; DO NOT EXERT YOURSELF SO THAT YOU MAY CAUSE AN INJURY.**
11. **BEFORE DRILLING THE MARKED HOLES, ENSURE THAT THERE ARE NO ELECTRICAL WIRES, TELEPHONE LINES, GAS OR WATER LINES BEHIND THE WALL WHICH DISRUPTING MAY CAUSE A LOSS OF LIFE OR PERSONAL INJURY!**
12. Hold the dispenser back up to the wall. Thread and tighten bolts.
13. Verify that the machine is securely mounted.
14. If the dispenser is permanently connected through a conduit, proceed to step #16.
15. Feed the AC line cord out of the bottom or the back of the cabinet by moving the 'L' bracket if necessary, and then perform the following:
 - A. Plug the male end into the AC wall outlet. ***Do not use an extension cord unless allowed by the building electrical code.***
 - B. Installation is finished and you can proceed to the "Setting the Payouts" section.
16. In order to continue you will need to purchase numerous electrical components. We highly recommend HIRING a qualified electrician to perform the following!
 - A. Install the conduit box on the conduit entering the cabinet in the lower back or bottom of the cabinet.
 - B. Secure the 3 wires (hot, neutral, and ground) to the AC wall outlet and the ground wire should also be directly attached to the cabinet ground terminal.
 - C. Plug the male end into the AC outlet just installed.
 - D. Properly fold the line cord to avoid sharp corners and any other damage.Proceed to the "Setting the Payouts" section.

MOUNTING THE AC115/125 INTO A WALL

IF YOU ARE UNSURE IN ANY WAY IN PROCEEDING WITH THE FOLLOWING STEPS, PLEASE HIRE A LOCAL PROFESSIONAL ELECTRICIAN TO MOUNT YOUR TICKET DISPENSER FOR YOU!

1. Disconnect any and all AC power going to the unit. (Unplug AC Line cord from the Main Logic Board and from the wall)
2. Remove the Ticket bin by sliding it up, then out and away from the cabinet. Take off the DL-1275 Dispenser the same way, by pushing up until it 'clicks', then pulling it away from the interior cabinet wall.
3. Note: You will need to verify with the building code that it is allowable to plug the ticket dispenser into a 3 prong grounded outlet. If it is not, there must be 120VAC run through conduit or other means to meet local codes to the dispenser. If it is not required, proceed to step #6.
4. Let the electrician run the conduit, install the new breaker, wire and help decide how the wiring will enter the cabinet (from the side or the bottom). This will affect the mounting location.

Note: Feeding the AC line cord from the bottom may be required when banking two or more dispensers together. Simply remove the nuts that secure the 'L' bracket, then rotate it and re-secure with the same nuts.

5. After the conduit has been installed, proceed with the mounting.
6. Find an appropriate wall to bolt the ticket dispenser into. The wall should have studs (use a stud finder) or be constructed of concrete. Consult a professional with any questions you may have.
7. **NOTE: SECURING THE TICKET DISPENSER WITH LESS THAN 4 BOLTS OR WELDED ANGLE IRON MAY BE DANGEROUS. EACH HOLE NEEDS A BOLT THROUGH IT MOUNTED SECURELY INTO THE WALL. MOUNTING THE DISPENSER IN ANY OTHER WAY MAY RESULT IN THE UNIT BEING TORN OUT OR FALLING OUT OF THE WALL, RESULTING IN PERSONAL OR CUSTOMER INJURY ALONG WITH ELECTRICAL SHOCK.**
8. Choose a height to mount the ticket dispenser keeping in mind that a handicapped person in a wheelchair should still be able to insert a bill into the bill validator. (We recommend no higher than 4 feet above the ground.)
9. Have someone hold the dispenser inside the wall while someone else marks the holes from the inside of the machine. **CAUTION: THE TICKET DISPENSER WEIGHS 35 POUNDS; DO NOT EXERT YOURSELF SO THAT YOU MAY CAUSE AN INJURY.**
10. **BEFORE DRILLING THE FOUR MARKED HOLES ENSURE THAT THERE ARE NO ELECTRICAL WIRES, TELEPHONE LINES, GAS, OR WATER LINES BEHIND THE WALL WHICH DISRUPTING MAY CAUSE A LOSS OF LIFE OR PERSONAL INJURY!**
11. After drilling the holes, put the dispenser back into the wall. Thread and tighten bolts.
12. Verify that the machine is securely mounted.
13. If the ticket dispenser is required to be permanently connected through a conduit, proceed to step #16.
14. Plug the power cord back into the Main Logic Board and into an AC wall outlet. ***Do not use an extension cord unless allowed by the building electrical code.***

15. Installation is finished and you can proceed to the "Setting the Payouts" section.
16. In order to continue you will need to purchase numerous electrical components. We highly recommend hiring a qualified electrician to perform the following!
 - A. Install the conduit box on the conduit entering the cabinet in the lower left side of the cabinet.
 - B. Secure the 3 wires (hot, neutral, and ground) to the AC wall outlet and the ground wire should also be directly attached to the cabinet ground terminal.
 - C. Plug the AC line cord back into the bottom of the Main Logic Board.
 - D. Plug the male end into the AC outlet just installed.
 - E. Properly fold the line cord to avoid sharp corners and any other damage.Proceed to the "Setting the Payouts" section.

TICKET LOADING

It is not necessary to detach the Ticket Dispenser from the door (AC111) or cabinet (AC115/125) in order to load tickets.

1. If there are tickets remaining in the dispenser, remove them before proceeding, and empty the ticket bin. Loosen the grip of the Validation/Embossing rollers by pressing the metal plate and metal spacer toward each other, using your thumb and forefinger (apply pressure at the points indicated by the two white arrows in Fig. 1). While the rollers are being held apart, use your other hand to pull the tickets out of the mechanism.
2. Refill the ticket bin with a fresh box/pack of accordion-style folded tickets.

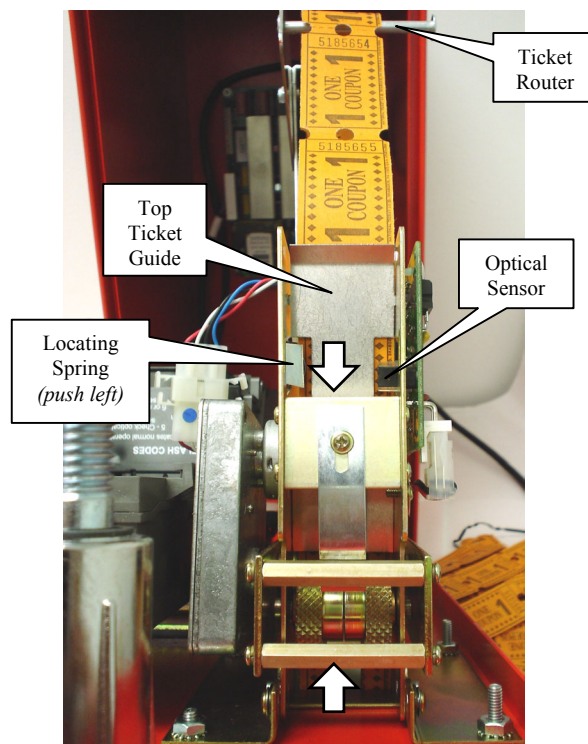


Fig. 1: DL-125 Ticket Dispenser, top view (AC111 Shown)

- Pull the top row of tickets up, directing them around the Ticket Router as seen in Fig. 1, and feed them face-up into the entrance of the ticket dispenser mechanism, between the top and bottom metal ticket guides. If necessary, gently push the Locating Spring out of the way with one hand while feeding the tickets with the other.
- Making sure the tickets pass through the channel in the Optical Sensor, continue to push them in until the front ticket reaches the Validation/Embossing rollers.
- Locate the Ticket Advance Switch on the DL-1275's Control Board situated on the right side of the dispenser (refer to diagram on pg. 16). Ticket loading is completed by pressing this switch and advancing the tickets until the first edge reaches the exit slot.

SETTING TICKET PAYOUTS

AC111/115/125 Series Ticket Dispensers are capable of many different payout options, including bonuses for different bill denominations. Ticket payouts can be as many as 15 tickets per dollar, with up to a 3 dollar bonus for \$5 bills, an *additional* 3 dollar bonus for \$10 bills, and an *additional* 7 dollar bonus for \$20 bills (one \$20 bill is the same as two \$10 bills or four \$5 bills; the bonuses carry over). The ticket dispenser's default factory-preset payout, unless otherwise specified at the time of purchase, is 4 tickets per dollar with no bonuses. This can be reset at any time using the two 8-way DIP Switches located in the upper-left corner of the Main Logic Board (see Fig. 2). DIP Switch #1 controls the base "per dollar" payout, while DIP Switch #2 controls the bonuses. Figure 3 shows a DIP Switch with the switch in slot #3 in the "UP" or "ON" position, and all others "DOWN" or "OFF". For DIP Switch #1, this would indicate a 4 ticket per dollar payout (see table 1). Use the following tables to make any changes to the DIP Switches.

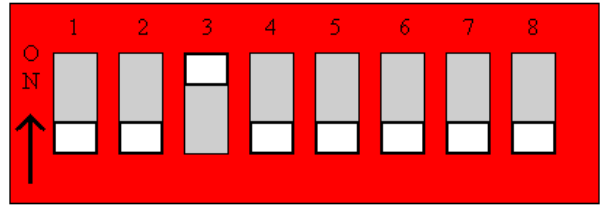


Fig. 3: DIP Switch Detail

BASE PAYOUT:

Table 1: DIP Switch #1 (Left) – This table shows the switch settings for controlling the number of tickets paid out per dollar. The switches in slots #5 - #8 are not used, and should be kept in the "OFF" position. *NOTE: SETTING THE PAYOUT TO 0 TICKETS PER DOLLAR (ALL SWITCHES OFF) DOES NOT NULLIFY THE BONUS PAYOUTS; THEY WILL STILL BE PAID FOR BILL DENOMINATIONS STARTING AT \$5. TICKETS COSTING MORE THAN \$1 EACH CAN BE SOLD BY SETTING DIP SWITCH #1 FOR A 0 TICKET PER DOLLAR PAYOUT, AND ADJUSTING THE BONUSES (SEE TABLE 2 FOR THE LIST OF POSSIBLE BONUS PAYOUTS).*

Payout – Tickets per \$	SW #1	SW #2	SW #3	SW #4	SW #5-#8
0	off	off	off	off	off
1	ON	off	off	off	off
2	off	ON	off	off	off
3	ON	ON	off	off	off
4	off	off	ON	off	off
5	ON	off	ON	off	off
6	off	ON	ON	off	off
7	ON	ON	ON	off	off
8	off	off	off	ON	off
9	ON	off	off	ON	off
10	off	ON	off	ON	off
11	ON	ON	off	ON	off
12	off	off	ON	ON	off
13	ON	off	ON	ON	off
14	off	ON	ON	ON	off
15	ON	ON	ON	ON	off

Example: To set the payout to 10 tickets per dollar, turn "ON" switches #2 and #4 of DIP Switch #1, while leaving #1, #3, #5, #6, #7, and #8 "OFF". Neglecting bonuses, the base payout would be 10 tickets for a \$1 bill, 50 tickets for a \$5 bill, 100 tickets for a \$10 bill, and 200 tickets for a \$20 bill (bonuses are shown in table 2).

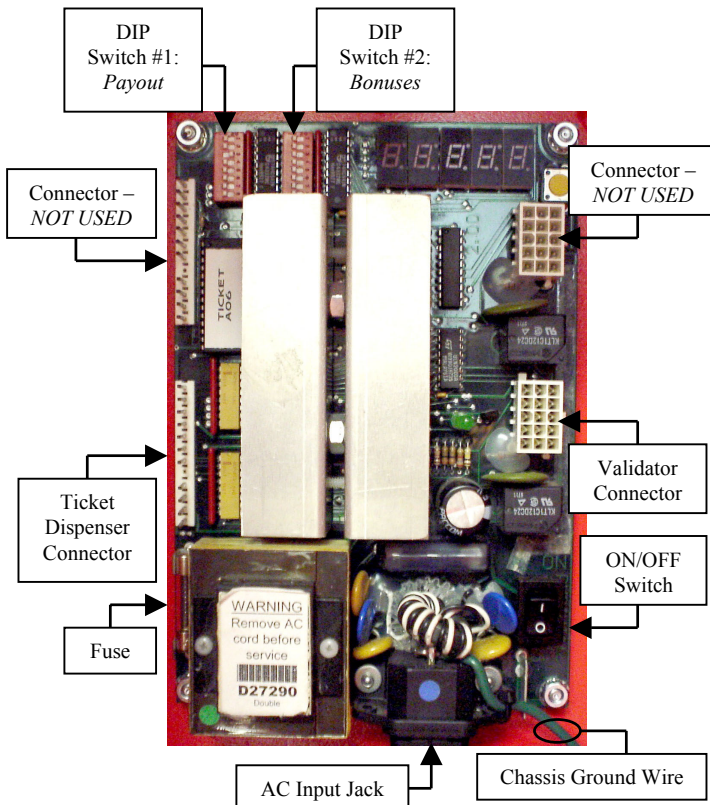


Fig. 2: AC111/115/125 Main Logic Board (MLB)

BONUS PAYOUT:

Table 2: DIP Switch #2 (Right) – This table shows the switch settings for the various bonus ticket payouts available in the AC111/115/125 series ticket dispensers. Bonus tickets are paid IN ADDITION TO the normal “per dollar” payout when a \$5, \$10, or \$20 bill is accepted. The bonuses in the table are shown in dollar values; the actual number of tickets dispensed is calculated using the “per dollar” ticket payout setting on DIP Switch #1 (refer to the “How to Use the Bonus Table” section for more information and an example). NOTE: IF DIP SWITCH #1 IS SET FOR A 0 TICKET PER DOLLAR PAYOUT, THEN THE BONUS VALUES LISTED IN THE TABLE SHOULD BE READ AS TICKET QUANTITIES, AND NOT DOLLAR VALUES. ALSO, THE SWITCH IN SLOT #8 IS NOT USED, AND SHOULD BE KEPT IN THE “OFF” POSITION.

Switches "ON" (all others off)	Total Bonus			Switches "ON" (all others off)	Total Bonus			Switches "ON" (all others off)	Total Bonus		
	\$5 bill	\$10 bill	\$20 bill		\$5 bill	\$10 bill	\$20 bill		\$5 bill	\$10 bill	\$20 bill
(none)	0	0	0	1-3-5-6	\$1	\$3	\$9	2-4-6-7	\$2	\$6	\$18
5	0	0	\$1	1-3-7	\$1	\$3	\$10	2-4-5-6-7	\$2	\$6	\$19
6	0	0	\$2	1-3-5-7	\$1	\$3	\$11	2-3-4	\$2	\$7	\$14
5-6	0	0	\$3	1-3-6-7	\$1	\$3	\$12	2-3-4-5	\$2	\$7	\$15
7	0	0	\$4	1-3-5-6-7	\$1	\$3	\$13	2-3-4-6	\$2	\$7	\$16
5-7	0	0	\$5	1-4	\$1	\$4	\$8	2-3-4-5-6	\$2	\$7	\$17
6-7	0	0	\$6	1-4-5	\$1	\$4	\$9	2-3-4-7	\$2	\$7	\$18
5-6-7	0	0	\$7	1-4-6	\$1	\$4	\$10	2-3-4-5-7	\$2	\$7	\$19
3	0	\$1	\$2	1-4-5-6	\$1	\$4	\$11	2-3-4-6-7	\$2	\$7	\$20
3-5	0	\$1	\$3	1-4-7	\$1	\$4	\$12	2-3-4-5-6-7	\$2	\$7	\$21
3-6	0	\$1	\$4	1-4-5-7	\$1	\$4	\$13	1-2	\$3	\$6	\$12
3-5-6	0	\$1	\$5	1-4-6-7	\$1	\$4	\$14	1-2-5	\$3	\$6	\$13
3-7	0	\$1	\$6	1-4-5-6-7	\$1	\$4	\$15	1-2-6	\$3	\$6	\$14
3-5-7	0	\$1	\$7	1-3-4	\$1	\$5	\$10	1-2-5-6	\$3	\$6	\$15
3-6-7	0	\$1	\$8	1-3-4-5	\$1	\$5	\$11	1-2-7	\$3	\$6	\$16
3-5-6-7	0	\$1	\$9	1-3-4-6	\$1	\$5	\$12	1-2-5-7	\$3	\$6	\$17
4	0	\$2	\$4	1-3-4-5-6	\$1	\$5	\$13	1-2-6-7	\$3	\$6	\$18
4-5	0	\$2	\$5	1-3-4-7	\$1	\$5	\$14	1-2-5-6-7	\$3	\$6	\$19
4-6	0	\$2	\$6	1-3-4-5-7	\$1	\$5	\$15	1-2-3	\$3	\$7	\$14
4-5-6	0	\$2	\$7	1-3-4-6-7	\$1	\$5	\$16	1-2-3-5	\$3	\$7	\$15
4-7	0	\$2	\$8	1-3-4-5-6-7	\$1	\$5	\$17	1-2-3-6	\$3	\$7	\$16
4-5-7	0	\$2	\$9	2	\$2	\$4	\$8	1-2-3-5-6	\$3	\$7	\$17
4-6-7	0	\$2	\$10	2-5	\$2	\$4	\$9	1-2-3-7	\$3	\$7	\$18
4-5-6-7	0	\$2	\$11	2-6	\$2	\$4	\$10	1-2-3-5-7	\$3	\$7	\$19
3-4	0	\$3	\$6	2-5-6	\$2	\$4	\$11	1-2-3-6-7	\$3	\$7	\$20
3-4-5	0	\$3	\$7	2-7	\$2	\$4	\$12	1-2-3-5-6-7	\$3	\$7	\$21
3-4-6	0	\$3	\$8	2-5-7	\$2	\$4	\$13	1-2-4	\$3	\$8	\$16
3-4-5-6	0	\$3	\$9	2-6-7	\$2	\$4	\$14	1-2-4-5	\$3	\$8	\$17
3-4-7	0	\$3	\$10	2-5-6-7	\$2	\$4	\$15	1-2-4-6	\$3	\$8	\$18
3-4-5-7	0	\$3	\$11	2-3	\$2	\$5	\$10	1-2-4-5-6	\$3	\$8	\$19
3-4-6-7	0	\$3	\$12	2-3-5	\$2	\$5	\$11	1-2-4-7	\$3	\$8	\$20
3-4-5-6-7	0	\$3	\$13	2-3-6	\$2	\$5	\$12	1-2-4-5-7	\$3	\$8	\$21
1	\$1	\$2	\$4	2-3-5-6	\$2	\$5	\$13	1-2-4-6-7	\$3	\$8	\$22
1-5	\$1	\$2	\$5	2-3-7	\$2	\$5	\$14	1-2-4-5-6-7	\$3	\$8	\$23
1-6	\$1	\$2	\$6	2-3-5-7	\$2	\$5	\$15	1-2-3-4	\$3	\$9	\$18
1-5-6	\$1	\$2	\$7	2-3-6-7	\$2	\$5	\$16	1-2-3-4-5	\$3	\$9	\$19
1-7	\$1	\$2	\$8	2-3-5-6-7	\$2	\$5	\$17	1-2-3-4-6	\$3	\$9	\$20
1-5-7	\$1	\$2	\$9	2-4	\$2	\$6	\$12	1-2-3-4-5-6	\$3	\$9	\$21
1-6-7	\$1	\$2	\$10	2-4-5	\$2	\$6	\$13	1-2-3-4-7	\$3	\$9	\$22
1-5-6-7	\$1	\$2	\$11	2-4-6	\$2	\$6	\$14	1-2-3-4-5-7	\$3	\$9	\$23
1-3	\$1	\$3	\$6	2-4-5-6	\$2	\$6	\$15	1-2-3-4-6-7	\$3	\$9	\$24
1-3-5	\$1	\$3	\$7	2-4-7	\$2	\$6	\$16	1-2-3-4-5-6-7	\$3	\$9	\$25
1-3-6	\$1	\$3	\$8	2-4-5-7	\$2	\$6	\$17				

HOW TO USE THE BONUS TABLE

Bonus tickets are paid IN ADDITION TO the normal “ per dollar” payout when a \$5, \$10, or \$20 bill is accepted. After choosing what you would like your base payout to be per dollar, select your bonuses, if any, for \$5, \$10, and \$20 bills in dollar increments. Then, set DIP Switch #1 using table 1, and DIP Switch #2 using table 2.

Example Payout #1: 10 tickets per dollar with a 2 dollar bonus for \$5 bills, a 6 dollar bonus for \$10 bills, and a 14 dollar bonus for \$20 bills. The ticket payout would be as follows:

\$1 = 10 tickets

\$5 = 70 tickets (10 x \$5 plus 10 x \$2 bonus)

\$10 = 160 tickets (10 x \$10 plus 10 x \$6 bonus)

\$20 = 340 tickets (10 x \$20 plus 10 x \$14 bonus)

Find the row in table 2 where \$5 bill = \$2, \$10 bill = \$6, and \$20 bill = \$14, and turn “ON” the proper switches. In this case, the row shows 2-4-6, so turn “ON” switches 2, 4, and 6 of DIP Switch #2, leaving the rest “OFF”.

Example Payout #2: 4 tickets for \$1, 24 tickets for \$5, 52 tickets for \$10, and 120 tickets for \$20. The bonuses for this are:

24 tickets = \$1 extra in tickets (4)

52 tickets = \$3 extra in tickets (12)

120 tickets = \$10 extra in tickets (40)

Find the row in table 2 where \$5 bill = \$1, \$10 bill = \$3, and \$20 bill = \$10. In this case, the row shows 1-3-7, so turn “ON” switches 1, 3, and 7 of DIP Switch #2, leaving the rest “OFF”.

NOTE: Always run tests using every accepted bill denomination once the ticket payouts have been set, to be sure they are correct and how you want them before final installation of the dispenser. The payouts can be set and reset as much as needed, and can be changed at any time to meet your requirements.

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 2-½ Amp, 250 Volt AS fuse only. ***REPLACING THIS FUSE WITH ANYTHING OTHER THAN A 2-½ AMP, 250 VOLT “AS” MAY RESULT IN A FIRE OR AN UNSAFE WORKING CONDITION!!*** (See Fig. 2 for the location of this fuse.)

OUT-OF-SERVICE CONDITIONS

Out-of-Service conditions occur in the AC111/115/125 Series ticket dispensers for the following reasons: blown fuse, validator fault, or out of tickets.

- 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 the fuse blows, the indication is the green LED on the main logic board will not light.
 - Replace the fuse. If the green LED now lights then there was a spike.
 - 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).
- 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 is not functioning. Therefore, the Out-of-Service LED on the front of the machine will not light for validator faults, and the validator’s LED should be checked (See page 14 for validator error codes.)

- Out of Tickets:** The ticket dispenser does not have specific sensors for monitoring when the tickets run out. Instead, the main logic board reads its optical notch sensor output and applies a time-out to determine when the ticket bin is out of tickets. During normal operation, the logic board turns on the dispenser and monitors the notch sensor output to turn it off when the correct number of tickets have been dispensed. If too much time passes before a notch is read, the bin is deemed to be out of tickets, so the logic board shuts down the dispenser and validator, and turns on the Out-of-Service LED.

INDICATOR LIGHTS

Main Logic Board:

- Green LED
 - ON: AC power applied to the logic board. Main fuse is good.
 - OFF: No power. Make sure the On/Off switch is in the “I” position; check the AC power cord connection; check the main fuse; check for shorts.
- Red LED display
 - Five 7-segment displays: The number shown on the Red LED display is the current total count, in dollars, that the unit has changed.
 - Decimal Point: The decimal point of the 7-segment display on the far left blinks a “heartbeat”, indicating that both 5V and 12VDC are present, and that the logic board is functioning properly.
Note: The decimal point does not indicate any error conditions.

Validator logic board:

- Red LED
 - ON Steady - Standby mode; waiting for bill to be inserted.
 - Flashing - Error mode; see page 14 for error code descriptions.
 - OFF - The Out-of-Service LED is lit and the Main Logic Board has shut down the validator, or the unit is not receiving power.

WIRE HARNESS COLOR AND DEFINITIONS

Validator harness:

- Red - Switched “Hot” - 120VAC Sw.
- White - AC Neutral
- Black - “Hot” - 120VAC
- Yellow - +5VDC credit pulse line
- Blue - Ground
- Orange - +24VDC (to Out-of-Service LED)
- Brown - Switched Gnd. (to Out-of-Service LED)

Ticket Dispenser Harness:

- Red - +12VDC Supply
- White - Motor Enable
- Black - Ground
- Blue - Notch Sensor

MAG BILL ACCEPTOR

Operation and Service Manual

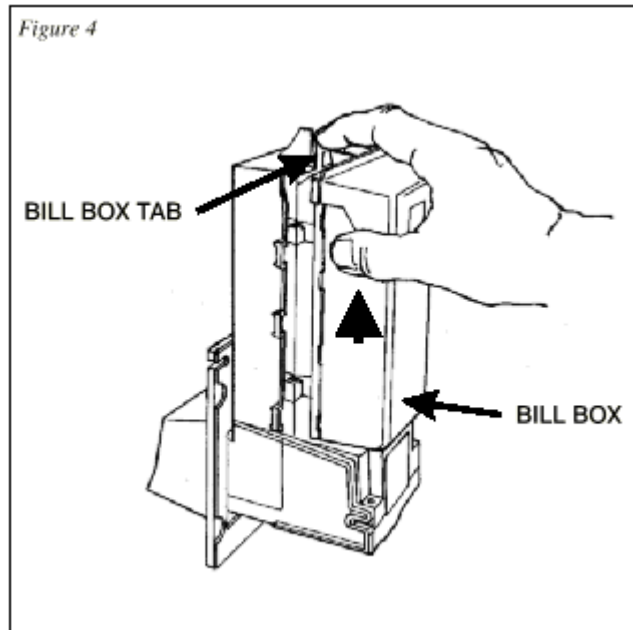


COINCO MAG50 VALIDATOR SECTION

	PAGE
Removing the Bill Box	9
Clearing a Bill Jam	9
Setting the Bill Types Accepted	10
Cleaning the Sensors	11
Cleaning a Salted Unit	12
Replacing the Belts	13
Troubleshooting & Error Codes	14

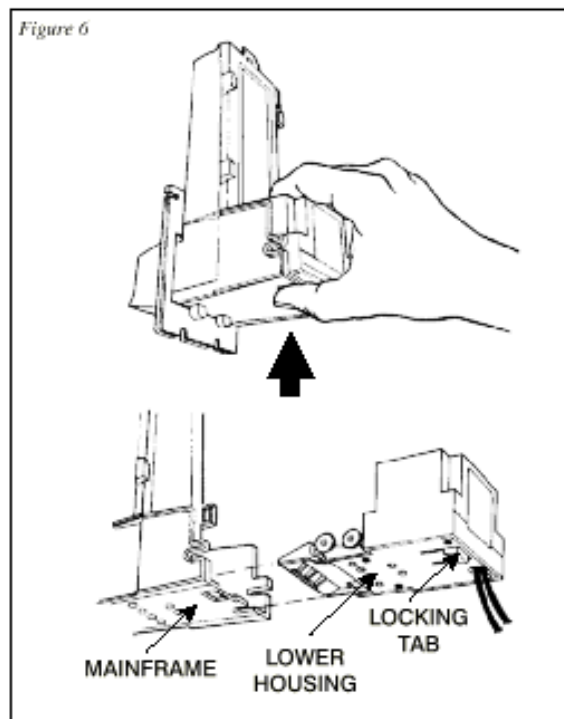
REMOVING THE BILL BOX

To remove the 500-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

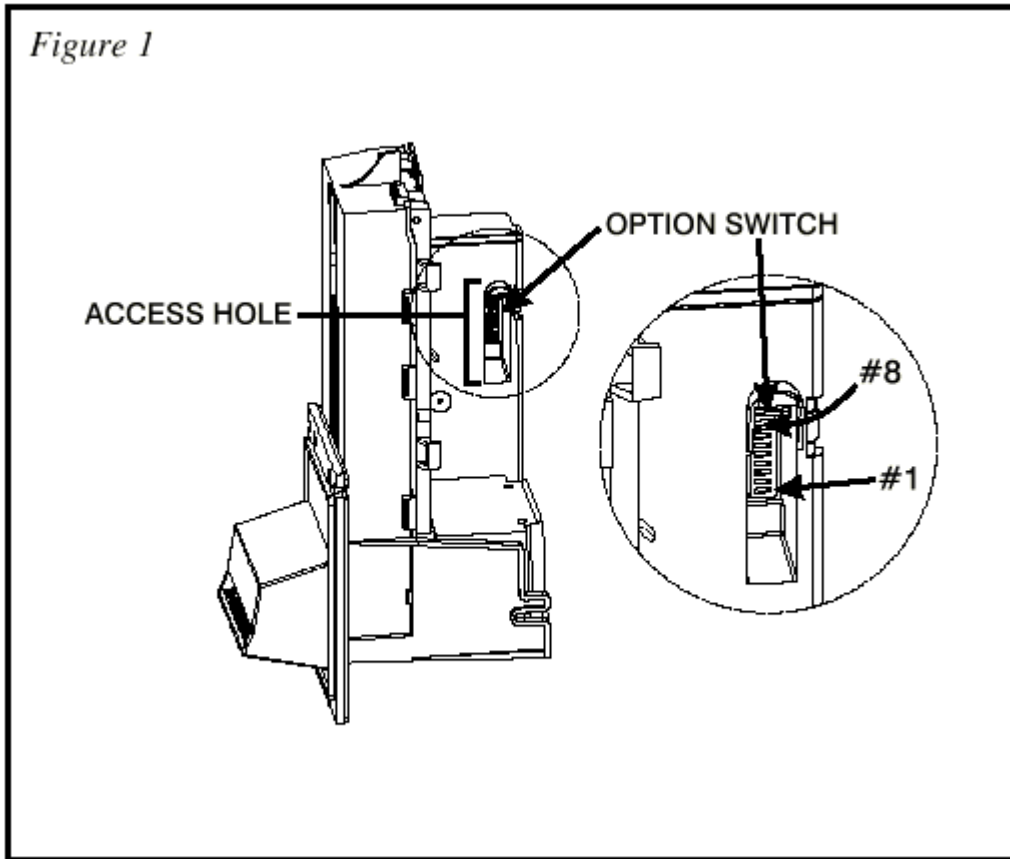
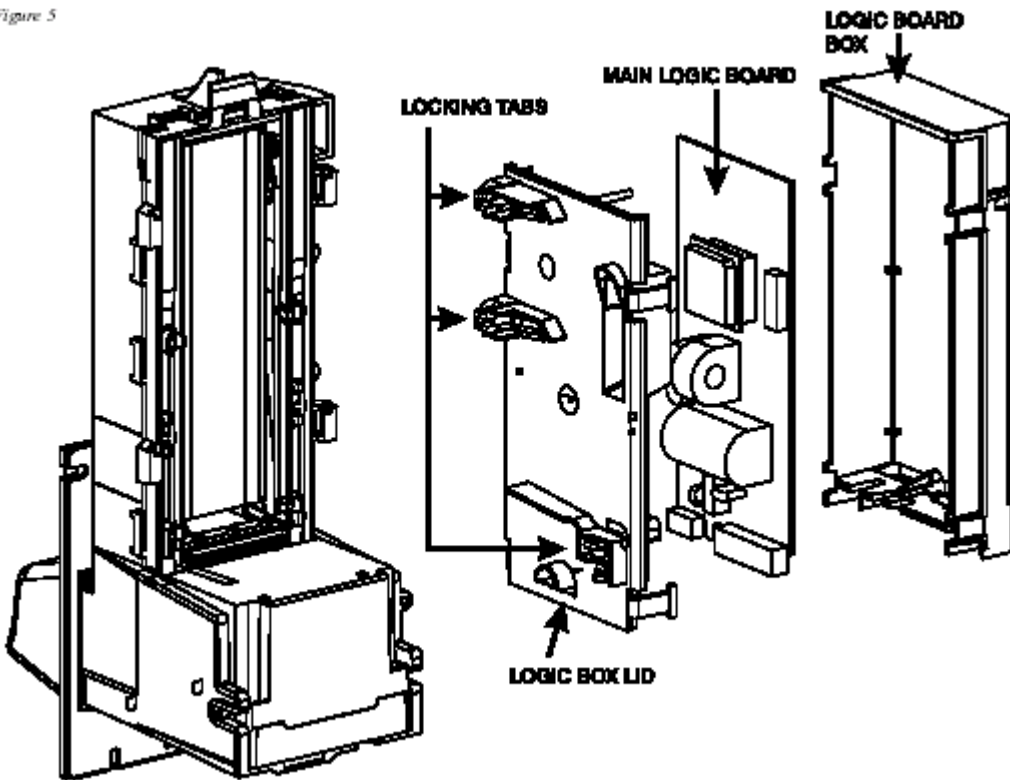
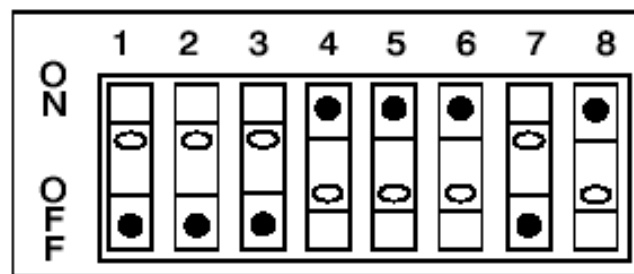


Figure 5

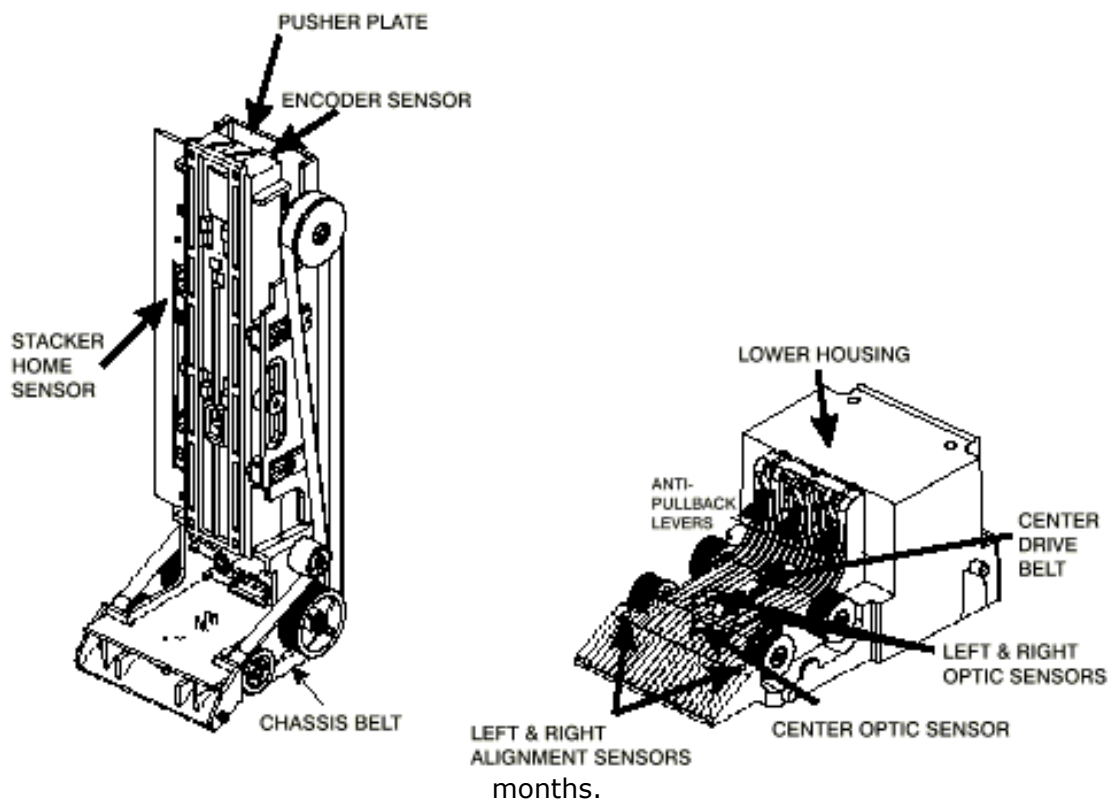


SWITCH	ON	OFF
1	High Security	Standard Acceptance
2	Accepts bills in one directions only (face up, green seal first)	Accepts bills in both directions (face up)
3	Standard credit pulse 150ms on 150ms off	Short credit pulse 50 ms on 50 ms off
4	\$20 Accept	\$20 Reject
5	\$10 Accept	\$10 Reject
6	\$5 Accept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



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.

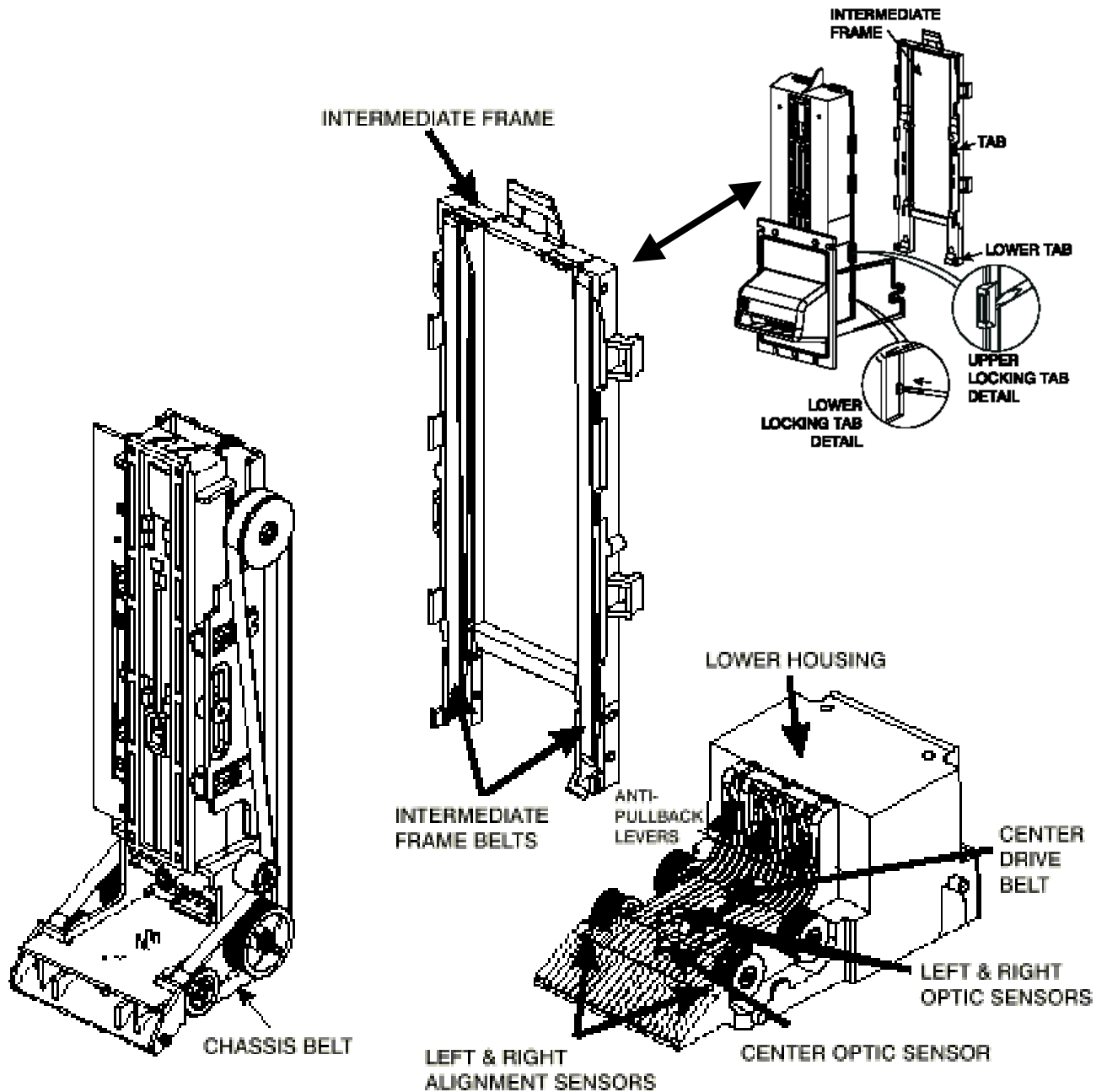
6 OR 7 ERROR CODE FLASHES

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 Ticket dispenser 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 dispenser's 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.
6. Replace the bill box.

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.



MAG50 TROUBLESHOOTING GUIDE

This Troubleshooting Guide is intended to help locate problems within the bill acceptor. If a bill acceptor cannot be repaired by following this guide, return the unit to American Changer or the nearest Coinco Service Center for repair along with a complete description of the problem you are having with the bill acceptor.

Logic troubleshooting minimizes the time spent in removing and replacing parts that are not defective. Some failures are caused by minor problems such as dirt or loose/faulty connections. Please check the following before replacing any parts:

- Clean any dirt or dust from the bill path.
- Connectors are inserted correctly.
- Connector pins are not bent or broken.
- All wires are properly secured.

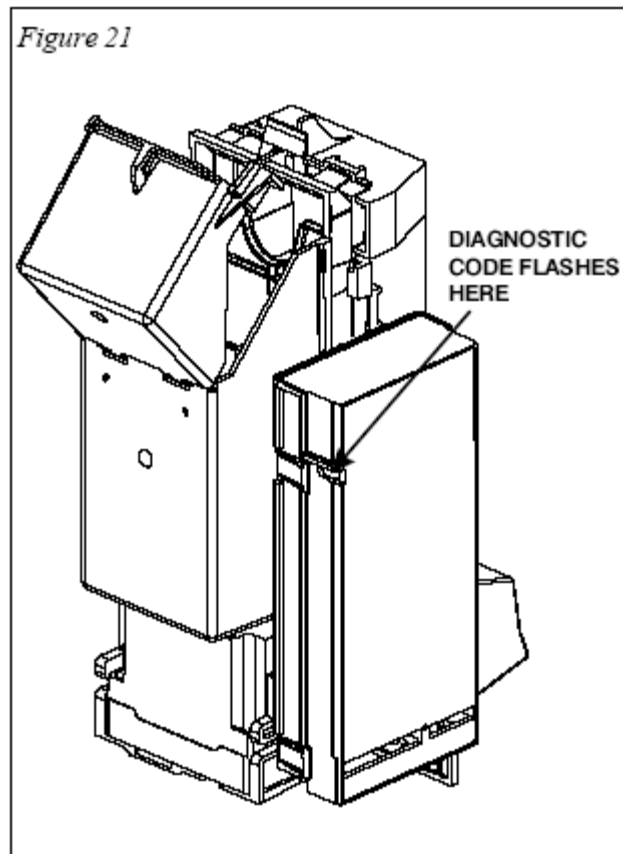
MAG50 DIAGNOSTIC CODES

Troubleshooting can be done by reading the number of flashes or blinks of light from the LED located inside the logic board cover. Since the red LED is normally ON steady, the number of flashes is the number of times it blinks OFF. These flashes can be seen on the side of the logic box.

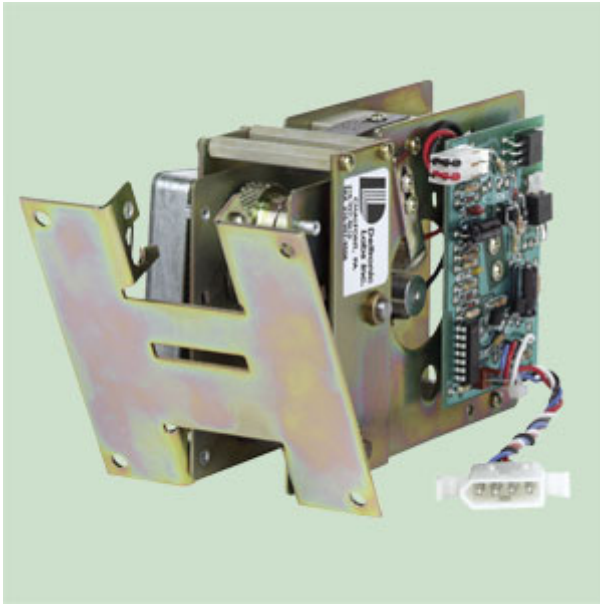
Diagnostic codes 2, 8, 14, and 18 are not used. Codes 1, 3, 4, 5, 15, and 16 may appear during normal servicing of the MAG50. If the MAG is flashing a #5 code, turn off power to the MAG for 10 seconds. Reapply power to the MAG50 and diagnostic codes 6, 7, 9, 10, 11, 12, 13, and 17 will appear for approximately 30 seconds. After 30 seconds these codes will revert back to the #5 code. If more than one error exists, the lower number code will appear until its condition is corrected. The left and right sensors referenced in the code descriptions are given viewing the MAG50 from the front.

# Of Flashes	Description of Diagnostic Codes
1	Bill Box Full
2	(Not Used)
3	Check Bill Path
4	All Bill Accept Switches Are Off
5	Check Optical Sensors
6	Stacker Motor/Home Sensor
7	Transport Motor/Encoder Sensor
8	(Reserved for Future Use)
9	EEPROM Check Sum Error
10	RAM or ROM Check Sum Error
11	Center Optic Sensor
12	Right Optic Sensor
13	Left Optic Sensor
14	(Not Used)
15	Right position Sensor
16	Left Position Sensor
17	Lower Board Anti-Pullback Lever Sensor
18	(Not Used)

Figure 21



DELTRONIC LABS, INC.



MODEL DL-1275 TICKET DISPENSER

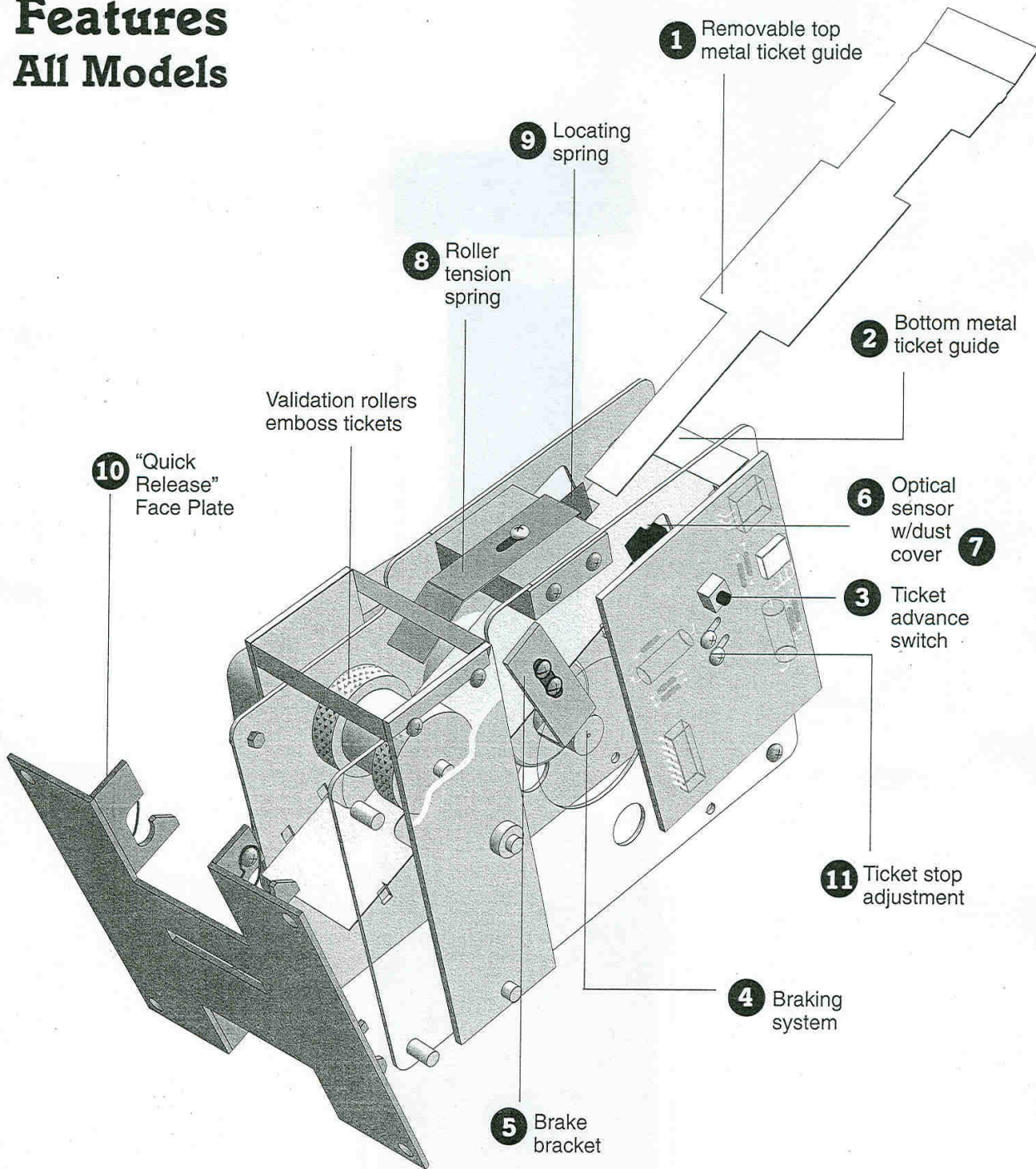
DELTRONIC LABS, INC. MODEL DL-1275 TICKET DISPENSER SECTION

	PAGE
Ticket Dispenser Diagram	16
Ticket Dispenser Feature Descriptions	17
Dispenser Specifications	17

“Quick Release” Ticket Dispenser

Features

All Models



DL-1275 TICKET DISPENSER FEATURE DESCRIPTIONS

- (1) TOP METAL TICKET GUIDE** – For servicing, the top metal ticket guide can be removed and replaced. With the unit facing you, gently spread side plates with thumb and index finger. Rotate guide to the right (clockwise, as viewed from the front of the dispenser) to a 45° angle, snapping the left side tab out of its slot, and pull straight back. When replacing, simply reverse these steps. Note there is no need to spread side plates while replacing guide. Tilt to right and insert right tab first. *Note: When PCB has opto-sensor cover, guide is inserted over sensor then directed down to right. Be sure guide is **BELOW** brake bracket screws when replaced.*
- (2) BOTTOM METAL TICKET GUIDE** – The longer, more durable ticket guide extends through the faceplate allowing for better guidance. Plus, a larger opening in the faceplate prevents curled tickets from catching.
- (3) LOADING OF TICKETS WITH TICKET ADVANCE SWITCH** – Tickets are inserted in the rear of the machine between the top and bottom ticket guides, and pushed forward to the rollers. If needed, gently push the locating spring (9) away from the ticket guides. Then push the ticket advance switch until you see the edge of the first ticket (refer to pgs. 4-5 for detailed instructions).
- (4) BRAKING SYSTEM** – Our impressive new braking system eliminates brake slippage allowing foolproof, accurate dispensing. The new design also reduces wear and tear on the dispenser.
- (5) BRAKE BRACKET** – The brake is easily accessible and can be adjusted to engage immediately when a ticket is pulled (Minimum of 1/8” from brake wheel).
- (6) OPTO-SENSOR** – Included as part of the controller is an opto-electronic beam sensor, which detects the notch between tickets. The output of the ticket sensing circuitry is an open collector transistor.
- (7) OPTO-SENSOR DUST COVER** – In addition, an optical sensor dust cover is also included to eliminate the possibility of ticket dust accumulating on the optical sensor. This increases the accuracy of the ticket count and reduces maintenance.
- (8) ROLLER TENSION SPRING** – The roller tension springs keep constant tension on tickets to insure proper delivery and to prevent the tickets from being “pulled through” when the dispenser is idle. To increase the tension, loosen the screw and move the spring forward. Tension is correctly adjusted when tickets cannot be pulled from the dispenser and the validation rollers lightly emboss the tickets.
- (9) LOCATING SPRING** – The ticket guide spring insures that the notches in the tickets pass through the opto-sensor. To decrease tension, loosen the screw and move the outer tension spring up. This changes the tension on the inner spring. The tickets should be snug between the spring and the side plate, but not deformed by the excess tension. The spring is adjusted at the factory for 1-5/32” wide tickets and positioned 1/8” from the ticket guides.
- (10) “QUICK RELEASE” FACE PLATE** – The dynamic new design allows the ticket dispenser to “quickly release” from its face plate on your cabinet or ticket door. This can be done manually and no tools are needed. This gives you complete access to the front of the rollers and to the ticket guides. Plus, you can “snap out” one ticket dispenser and immediately replace it with another in just seconds.
- (11) TICKET STOP ADJUSTMENT** – The ticket stop adjustment allows you to position the tickets while the machine is off. The tickets should protrude through the slot at least 1/16”. The ticket dispenser PC board is mounted on spacers with two screws and washers in two slotted holes. Loosening the screws and moving the board forward will allow the tickets to stop further out beyond the edge of the slot.

DISPENSER SPECIFICATIONS

The quick release faceplate greatly improves serviceability and reduces maintenance. Now standard on all Deltronic Labs Ticket Dispensers.

- Low voltage operations, only 12V DC
- Solid-state output allows interfacing with electronic games
- Compact size, only 3-1/8”W x 4”H x 5-1/2”L
- Weight: 2-1/4 lbs.
- Validation “diamond” mark identifies tickets that have been dispensed
- Adjustable ticket stop
- Dispenses 2”L x 1-5/32”W tickets (STANDARD)
- Dispenses 4”L x 1-5/32”W tickets
- One year warranty
- Standard faceplate: 4”H x 3-3/4”W
- 12V meter output
- CE (when requested)

TROUBLESHOOTING GUIDE

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

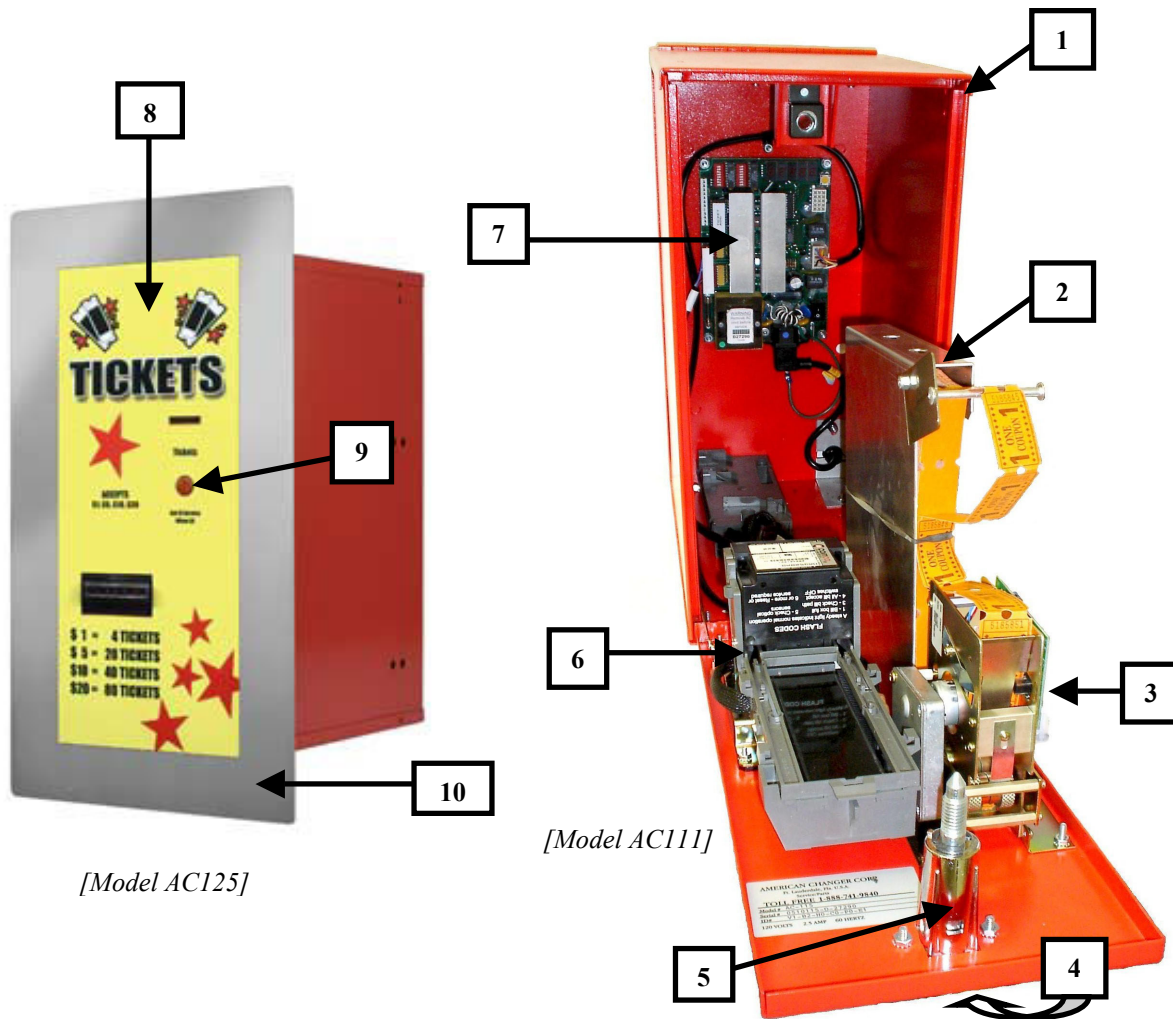
<i>Problem:</i>	<i>Solution:</i>
<p>A. The ticket dispenser is completely dead (The green LED on the main logic board is not lit)</p>	<ol style="list-style-type: none"> 1. Ensure the ticket dispenser is plugged in. 2. Ensure the ON/OFF switch is rocked to the "I" position (up). 3. Unplug the female end 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 the Main Fuse on the Logic Board. 7. Replace the main logic board. 8. Replace the line cord.
<p>B. The Out-of-Service LED is lit</p>	<ol style="list-style-type: none"> 1. Ensure the ticket dispenser has not run out of tickets. It is possible that the ticket bin has tickets, but that the string of them was broken due to a snag or misfeed. In either case, re-load the dispenser per the instructions on pgs. 4-5. 2. Clear any tickets or foreign material that may be jamming the Dispenser or its exit slot, preventing tickets from moving freely. 3. Check the Ticket Dispenser wiring harness. Ensure that the red 12-position connector is pushed all the way onto the Logic Board pins, and the two white 4-position connectors are fastened securely. If necessary, pull the connections apart and reattach them properly. 4. Replace the Ticket Dispenser wiring harness. 5. Replace the Ticket Dispenser
<p>C. The green LED on the main logic board is ON, but the red LED displays do not light</p>	<ol style="list-style-type: none"> 1. Bad 5V or 12VDC regulator on the main logic board. 2. The Ticket Dispenser is shorted. 3. Replace Main Logic Board. 4. Replace the Ticket Dispenser.
<p>D. Bill validator will not accept the bill, but the "Out-of-Service" LED is not lit</p>	<ol style="list-style-type: none"> 1. Ensure the Orange and Black wires going to the "Out-of-Service" LED are connected its Red (+) and Black (-) connectors, respectively. 2. Check for +24VDC between the Orange and Black wires. If voltage is present, replace the LED. 3. Verify that the validator is not flashing an error message. If it is, refer to pg. 14 for error code information. 4. The bill denomination may not be enabled. Check the validator's DIP Switches #4-#8 and make any necessary adjustments. 5. Replace the validator harness. 6. Replace the validator. 7. Replace the Main Logic Board.

TROUBLESHOOTING GUIDE

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

<i>PROBLEM:</i>	<i>SOLUTION:</i>
E. The validator pulls in the bill slightly, then rejects it	<ol style="list-style-type: none"> 1. Clean the validator (refer to pgs. 11-12 for instructions). 2. Remove the lower housing of the validator (see pg. 9). Ensure the center wheel spins freely. Push straight down on it gently to loosen. 3. Replace the bill validator.
F. The bill validator's red status LED is ON steady, but it still will not accept the bill	<ol style="list-style-type: none"> 1. Pull out the validator's lower housing (see pg. 9) and look for something obstructing the bill path, i.e. gum, paper, tickets, coins, foreign objects, etc. 2. Look inside the validator's plastic logic board box (see pg. 10) attached to the bottom of the cabinet. Ensure that all the logic board's wire harness connectors are plugged firmly into their white female sockets.
G. The validator's red status LED flashes a "5" error code	<ol style="list-style-type: none"> 1. Clean the validator's Optic LED sensors (see pgs. 11-12). 2. Look inside the validator's plastic logic board box (see pg. 10) attached to the bottom of the cabinet. Ensure that all the logic board's wire harness connectors are plugged firmly into their white female sockets. 3. Turn to the back page of this manual and check for a Coinco service center in your area to repair your bill validator.
H. The validator's red status LED flashes a "6" or "7" error code	<ol style="list-style-type: none"> 1. Take the bill stacker off the bill validator. Cycle the power ON / OFF using the switch on the main logic board to try to catch the plastic push-plate so that it stops in its fully extended position. Blow out the area behind the push-plate with high pressure or canned air. Concentrate on the encoder wheel in the area top center behind the push-plate. 2. Turn to the back page of this manual and check for a Coinco service center in your area to repair your bill validator.
FOR TECHNICAL SERVICE OR TO OBTAIN A RETURN MATERIAL AUTHORIZATION NUMBER CALL (888) 741-9840	<u>ANY REPAIR RETURNED WITHOUT A RETURN MATERIAL AUTHORIZATION NUMBER (RMA#) WILL BE REFUSED!</u>

AC111/115/125 CABINET PARTS LIST



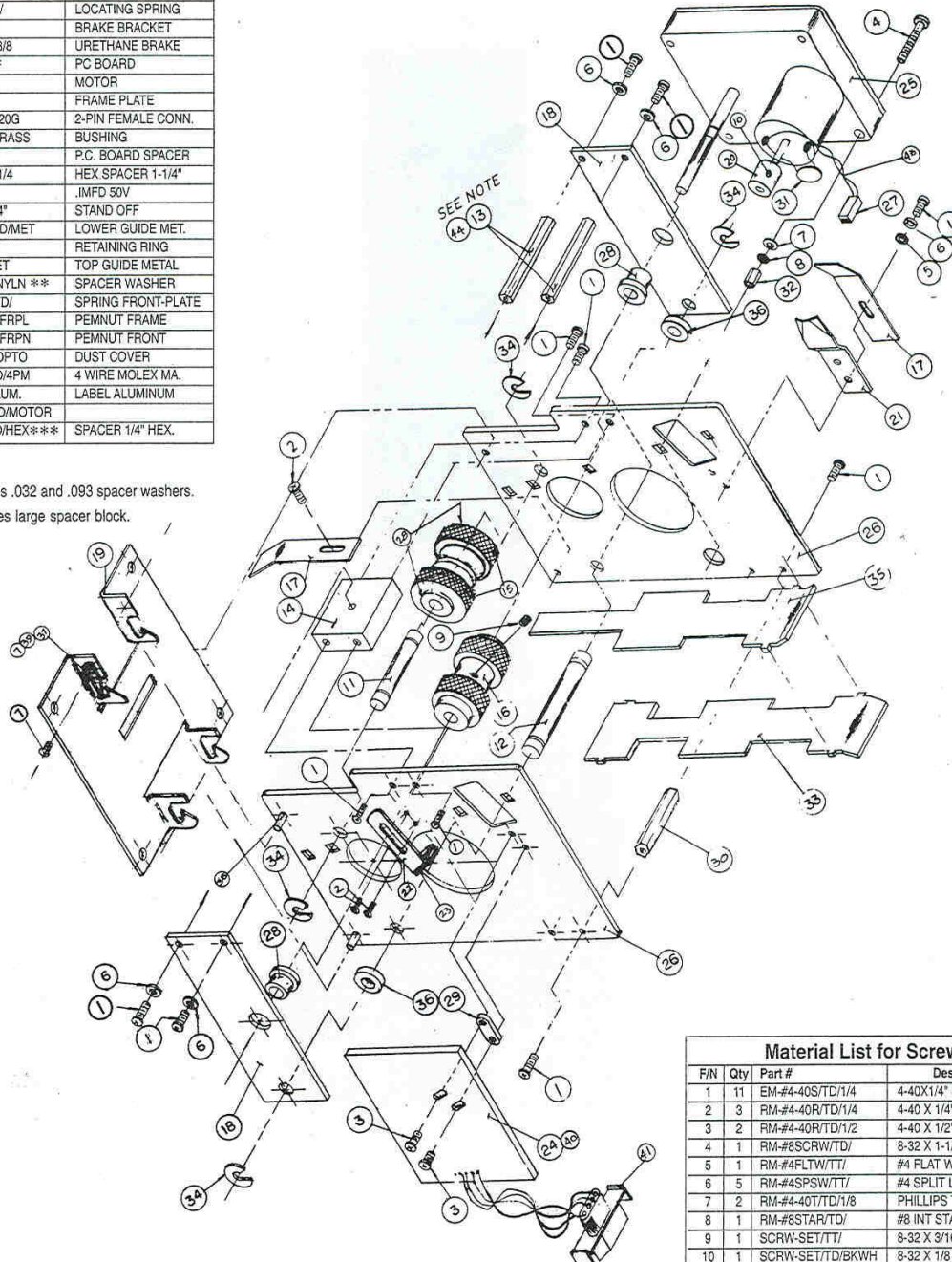
AC111/115/125 CABINET PARTS

#1	AC2210	CABINET FOR AC111 (FRONT LOAD)
	AC2210.1	CABINET FOR AC115 AND AC125 (REAR LOAD)
#2	AC6041.3	TICKET BIN
#3	AC6041	DELTRONIC LABS DL-1275 TICKET DISPENSER
#4	AC1093	LOCK & KEY
#5	AC5080	SCREW-IN "T" HANDLE ASSY.
#6	AC9001.1	COINCO MAG50BAB (PRO) BILL VALIDATOR
#7	AC6041.2	TICKET DISPENSER MAIN LOGIC BOARD
#8	AC1069	FULL-FACE LEXAN FRONT
#9	AC2060-20	LED LAMP
#10	AC6041.4	STAINLESS STEEL FRONT (AC125 ONLY)
	AC6041-H	TICKET DISPENSER WIRING HARNESS
	AC1061-H	COINCO VALIDATOR WIRING HARNESS
	AC2060-01	AC POWER CORD

DL-1275 TICKET DISPENSER ASSEMBLY PARTS

Details of Parts			
F/N	Qty	Deltronic Labs P/N	Name
11	1	SHFT-IDLR/LR/TD/	IDL. ROLLER SHAFT
12	1	RM-SFTMTR/TD/	MOTOR PIVOT SHAFT
13	1	SPAC PIVBLK/TD/4HOL	PIVOT BRACKET SPAC
14	1	RM-SPCPB/TD/	SPACER BLOCK
15	2	RM-RLRIDL/TD/VALD	IDLER ROLLER
16	1	RM-RLRDRV/TD/VALD	DRIVE ROLLER
17	2	SPRG-TENSN/TD/	TENSION SPRING
18	2	RM-BKTPVT/TD	MTR PIVOT BKT.
19	1	RM-PANLFT/TD/NOPM	FRONT PANEL
20	1	RM-WHLBRK/TD/	BRAKE WHEEL
21	1	SPRG-LOCAT/TD/	LOCATING SPRING
22	1	RM-BKTBRK/TD/	BRAKE BRACKET
23	1	RM-BKTTUB/TD/3/8	URETHANE BRAKE
24	1	PCBD-1275/TD/*	PC BOARD
25	1	RM MOTOR/TD/	MOTOR
26	2	RM-PLATFR/TD	FRAME PLATE
27	1	RM-CONN2P/TE/20G	2-PIN FEMALE CONN.
28	4	BRNG-F312/TT/BRASS	BUSHING
29	1	SPAC-PCBD/TD/	P.C. BOARD SPACER
30	1	SPAC-HEX/TD/1-1/4	HEX SPACER 1-1/4"
31	1	RM .1M/TT/50V	.1MFD 50V
32	1	SPAC-HEX/TD/1/4"	STAND OFF
33	1	GUID-BOTTOM/TD/MET	LOWER GUIDE MET.
34	4	RING-E25RT/TT/	RETAINING RING
35	1	GUID-TOP/TD/MET	TOP GUIDE METAL
36	2	PULY-SP212/TE/NYLN **	SPACER WASHER
37	2	SPRG FRONTP/TD/	SPRING FRONT-PLATE
38	4	RM-PEMNUT/TD/FRPL	PEMNUT FRAME
39	2	RM-PEMNUT/TD/FRPN	PEMNUT FRONT
40	1	COVR-H21A/TD/OPTO	DUST COVER
41	1	CONN MOLEX/TD/4PM	4 WIRE MOLEX MA.
42	1	RM-LABEL/TD/ALUM.	LABEL ALUMINUM
43	1	WIRE-REDBLK/TD/MOTOR	
44	2	SPAC-PIVBRK/TD/HEX***	SPACER 1/4" HEX.

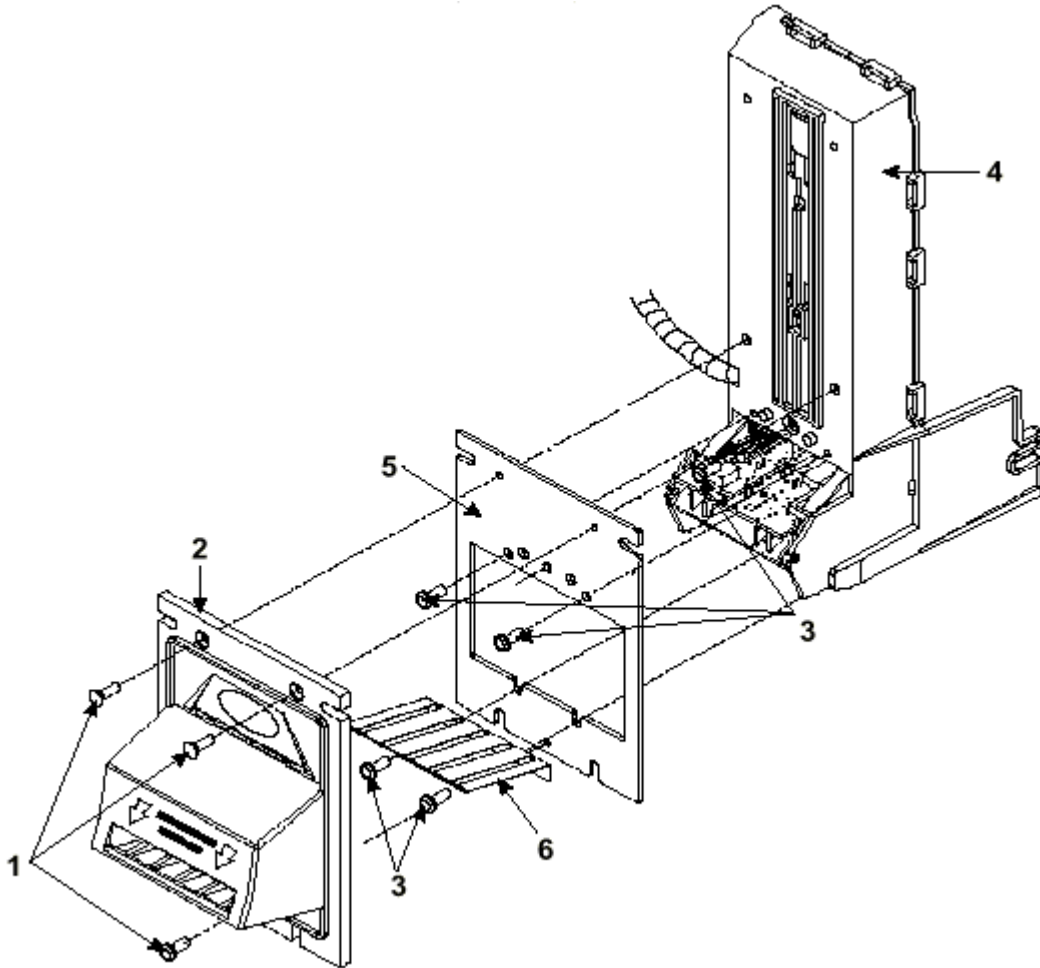
* Order by Model #
 ** Note: F/N #36 replaces .032 and .093 spacer washers.
 *** Note: F/N #44 replaces large spacer block.



Material List for Screws			
F/N	Qty	Part #	Description
1	11	EM-#4-40S/TD/1/4	4-40X1/4" SCREW
2	3	RM-#4-40R/TD/1/4	4-40 X 1/4" WASHER HE
3	2	RM-#4-40R/TD/1/2	4-40 X 1/2" WASHER HE
4	1	RM-#8SCRW/TD/	8-32 X 1-1/4"
5	1	RM-#4FLTW/TT/	#4 FLAT WASHER
6	5	RM-#4SPSW/TT/	#4 SPLIT LOC. WASHER
7	2	RM-#4-40T/TD/1/8	PHILLIPS TRUSSHEAD
8	1	RM-#8STAR/TD/	#8 INT STAR WASHER
9	1	SCRW-SET/TT/	8-32 X 3/16" SET SCREW
10	1	SCRW-SET/TD/BKWH	8-32 X 1/8 SET SCREW

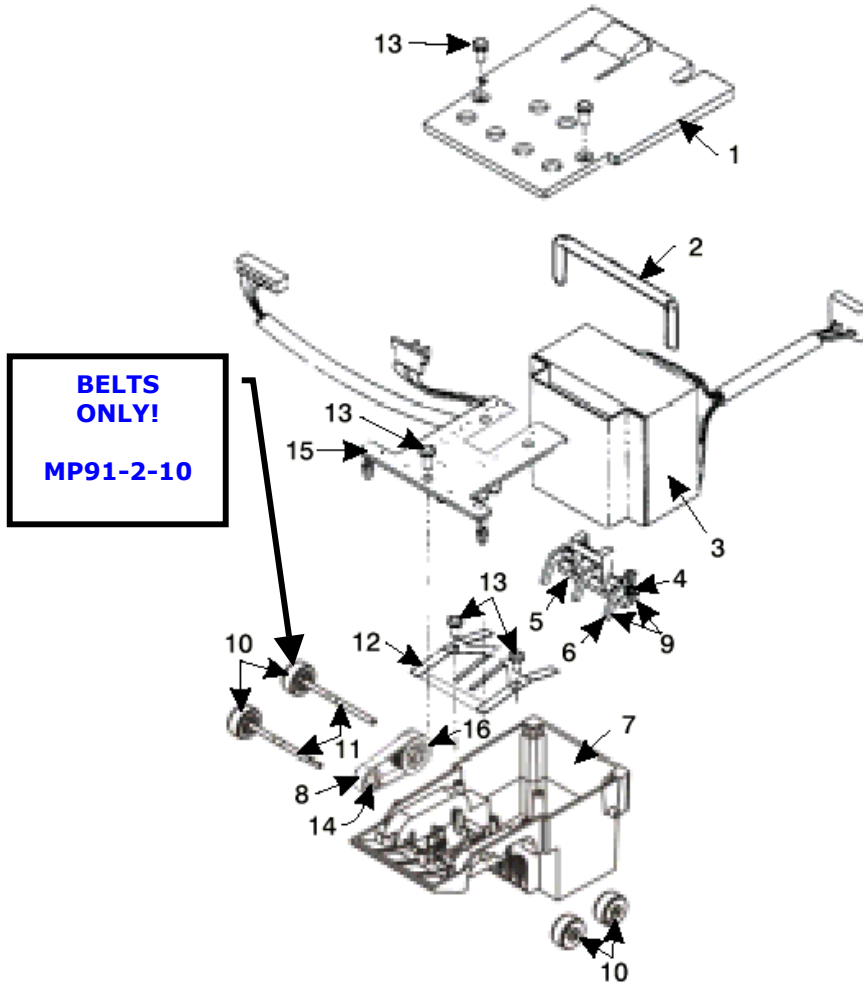
COINCO PARTS LIST

MOUNTING ASSEMBLY PARTS BREAKDOWN



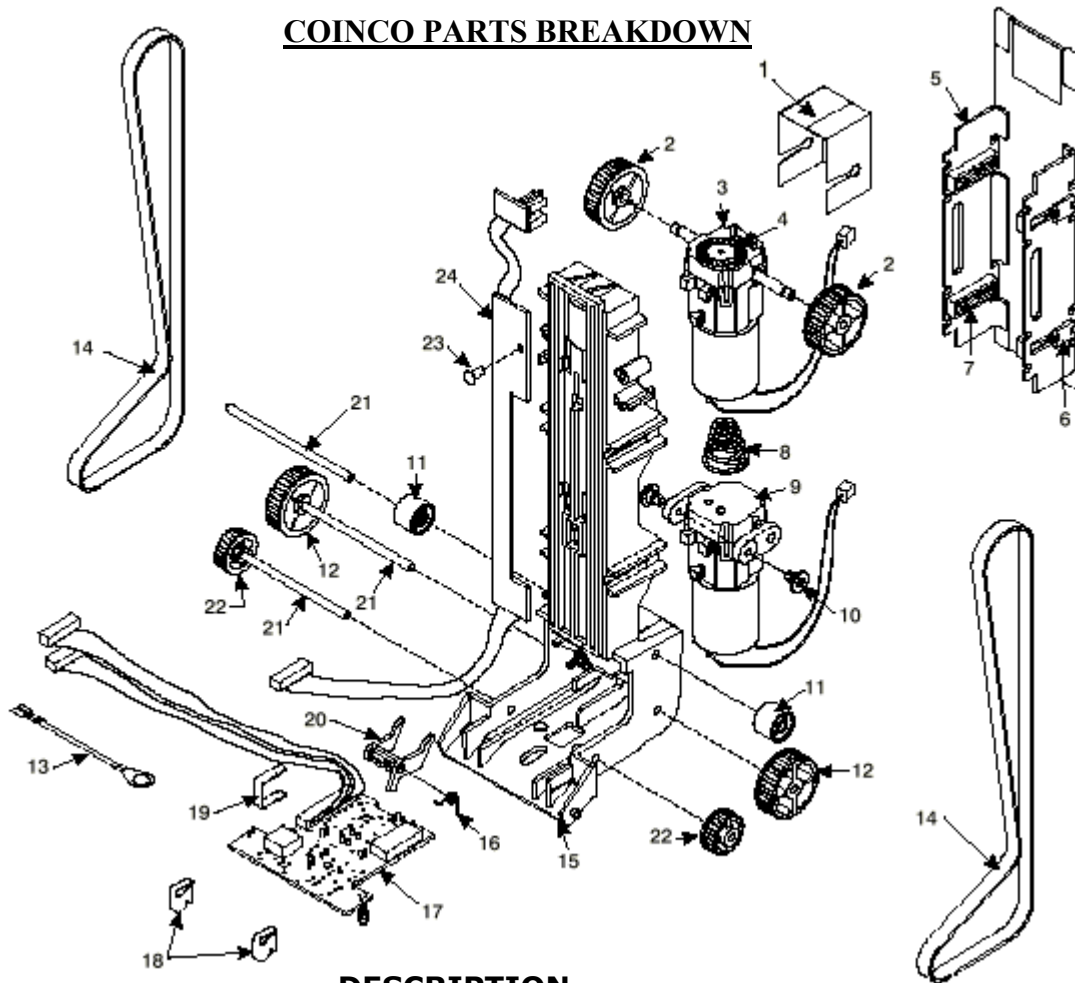
<u>PICTURE #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
#1	MP90-1-1	Machine Screw
#2	MP90-1-2	"Snack Mask" Black Plastic
#3	MP90-1-3	Machine Screw
#3	MP90-1-4	Main Frame, Plastic
#4	MP91-1-5	Mask Gold Mounting Bracket
#5	MP90-1-6	Bill grounding spring
#6	MP91-1-7	Machine Nut
#7		

COINCO PARTS BREAKDOWN



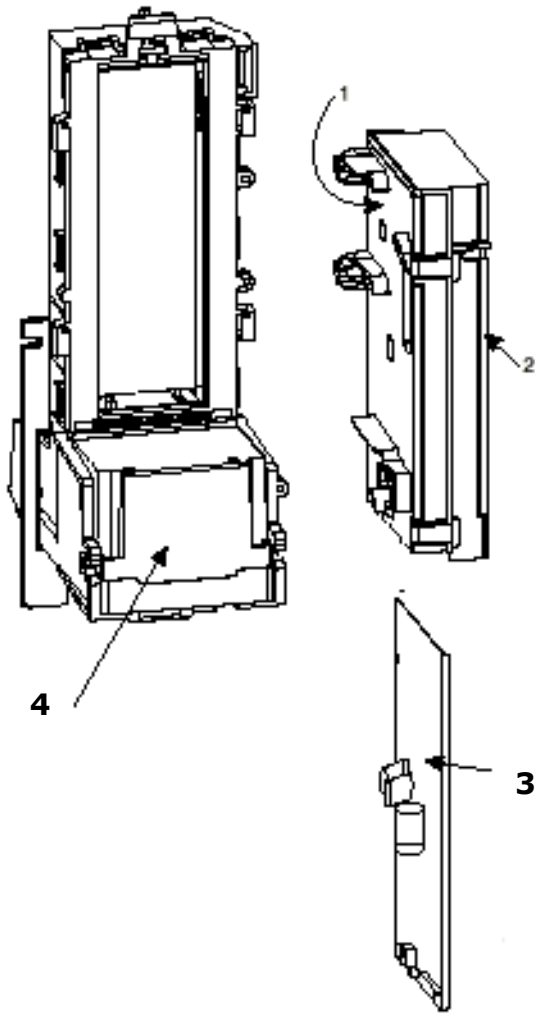
<u>PICTURE #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
#1	MP90-2-1	Bottom Lower Housing Cover
#2	MP90-2-2	Transformer holding hose
#3	MP90-2-3	120VAC Transformer
#4	MP90-2-4	Lower Spring, Anti-Cheat Lever
#5	MP91-2-5	Lower Mounting, Anti-Cheat Lever
#6	MP90-2-6	Lower Anti-Cheat Lever
#7	MP90-2-7	Lower Housing 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



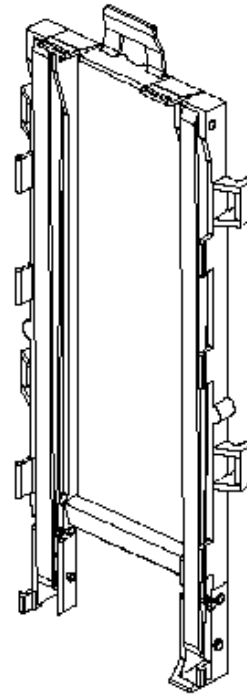
<u>PICTURE #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
#1	MP90-3-1	Dust Cover
#2	MP90-3-2	Upper Transport & Hub Assembly, Complete
#3	MP91-3-3	Motor, Transport & Gear Assembly Complete
#4	MP90-3-4	Wheel, Encoder
#5	MP90-3-5	Stacker, Push-Plate Assembly
#8	MP90-3-8	Spring, Belt Tension
#9	MP90-3-9	Motor, Stacker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

COINCO PARTS BREAKDOWN



INTERMEDIATE FRAME 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



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