



COINCO **FOUR** **TUBE** **700** **SERIES**
OPERATION **AND** **SERVICE**
MANUAL

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SECTION 1: GENERAL INFORMATION

Introduction

This manual contains information on installing, operating and maintaining your COINCO FOUR-TUBE coin changer. This manual is intended for owners, route operators and shop-level technicians as a primary source of information. Taking time to read this manual and becoming familiar with this information will help you obtain the best performance from your COINCO FOUR-TUBE coin changer.

COINCO FOUR-TUBE 700 Series Changers can accept and validate up to 16 different coins or tokens ranging in diameter from 15.5 to 32.5 mm and 1.07 to 3.10 mm in thickness.

- For the United States, USD models are factory tuned to accept U.S. nickles, dimes, quarters, and dollar coins.
- For Canada, CAD models accept U.S. and Canadian nickles, dimes, quarters, one dollar and Canadian two dollar coins.

700 Series COINCO FOUR-TUBE Changers are available in the following models:

___-G___**MDB**, For electronic vending machines using Multi-Drop Bus

___-S___**Single Price**, For electromechanical vending machines.

___-L___**Logic Price**, For four price and single price vending machines.

For You Records

A label indicating the changer's model number and serial number can be found on the side of the coin changer. Refer to the model number and serial number whenever you call your Coinco Service Center for information or service.

The first four digits of the serial number indicate when the unit was built which is also the beginning of the warranty period. The first two digits indicate the week of manufacture; the third and fourth digits indicate the year of manufacture. For example, Serial Number 249807053 would indicate the unit was manufactured in the 24th week of 1998.

The model number indicates the country, currency, interface type and payout configuration of the coin changer.

The first three letters of the model number indicate the Country Banking Code (USD = United States / Dollar, CAD = Canada / Dollar). The fourth letter indicates the changer model (G = MDB, S = Single Price, L = Logic, F = Four Price / Single Price).

The first digit of the model number indicates the series of changer (7 = 700), and the last two digits represent the changer's payout configuration.

SECTION 1: GENERAL INFORMATION

Payout Configuration	Tube Location			
	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>
01	\$1.00	.10	.05	.25
02	.25	.10	.05	.25
03	\$1.00	.10	.05	\$1.00
04	.25	.25	.25	.25
05	\$1.00	.25	.25	\$1.00
06	.05	.10	.10	.05
07	.05	.10	.10	.10
08	.25	.10	.10	.05
09	.25	.05	.05	.25
10	.05	.05	.05	.05
11	\$1.00	.10	.10	.05
12	.25	.10	.05	.05
13	.25	.05	.25	.25
14	\$1.00	.05	.05	.25
15	.05	.10	.05	.05
16	\$1.00	.25	.25	.25
17	\$1.00	.10	.10	.25
18	\$1.00	.10	.05	.05

Example: USD-G706 = United States Dollar, MDB 700 series, 5-10-10-5 payout

CAD-L701= Canadian Dollar, Logic 700 series, \$1-10-5-25 payout

NOTE: “L” model changers should only be configured as 701, 702, or 708.

SECTION 1: GENERAL INFORMATION

Features

- Programmable acceptor allows for easy reconfiguration of coin tubes in the field.
- The COINCO GLOBAL® coin changer has a modular design for easy service.
- Individual tubes snap in and out of housing for easy customization of your changer.
- Programmable acceptor allows for easy reconfiguration of coin tubes in the field.
- Pays out change from self-loading, high capacity change tubes.
- Two motors provide fast, accurate payout.
- Programmable tube floats allow variable tube level adjustment.
- State-of-the-art electronic logic system is designed for reliability and performance.
- Lightweight, rugged plastic construction.
- All models equipped with the MDB protocol.
- Lockable coin loading door allows easy hand-loading of coin tubes while keeping dirt and debris out of the changer.

After Unpacking

After unpacking the unit, inspect it for any possible shipping damage. If the unit is damaged, notify the shipping company immediately. Only the consignee (the person or company receiving the unit) can file a claim against the carrier for shipping damage. We recommend that you keep the original carton and packing materials to reuse if you need to transport or ship your changer in the future.

If the coin changer is being stored or used as a spare, always keep it in its shipping carton when not in use. This will keep it clean and offer the best protection for the unit.

Specifications

Power Requirements (by model)

MDB-(G) 34V DC

Single Price-(S) 120VAC, 60Hz
(95 to 130 VAC, 60Hz)

Logic-(L) 15 pin, 24 VDC
(20 to 30 full wave rectified)
@ 1.5Amax

Four Price-(F) 120 VAC, 60 Hz
(95 to 130 VAC, 60Hz)

Operating Temperature

0 to 150 Degrees Fahrenheit

-18 to 65 Degrees Celsius

Storage Temperature

-22 to 160 Degrees Fahrenheit

-30 to 72 Degrees Celsius

Relative Humidity

20% to 98% Noncondensing

Operating Attitude

Vertical ± 3 degrees

Physical Dimensions

Height: 14.93 inches (base to top of coin
return lever)

Width: 5.47 inches

Depth: 3.25 inches (gate open)
3.00 inches (gate closed)

Shipping Weight

Approximately 7 pounds

SECTION 2: INSTALLATION

Installing The Changer

1. Remove power from vendor.
2. Remove the acceptor from the changer by pressing down and releasing the acceptor latch, releasing the acceptor. Rotate the top of the acceptor forward, away from the changer (see figures 1 and 2). Unplug the ribbon cable from changer. Free the lower acceptor studs from changer housing. Place the acceptor in a clean area.
3. With the acceptor removed, set the mounting holes in the back of the changer housing over the mounting screws in the vendor. Tighten snugly (see Figure 3).
4. Re-install the acceptor by inserting the lower acceptor studs into the changer housing guides. Plug the ribbon cable into the changer (see Figure 2).
5. On Single-Price units using the DEX/UCS Hand-Held Computer, attach the DEX plug ground connector to the vending machine frame (see Figure 1).
6. Plug changer into vendor socket.
7. For Single-Price units and Canadian Four-Price units, set the desired vend price and options on the changer (refer to "Setting the Vend Price" and "Option Switch Settings").
8. Press top of the acceptor into the changer housing until the acceptor latch locks.
9. Load the tubes with coins (see "Hand Loading" and "Loading Through the Acceptor").
10. (Optional) Set the coin tube float levels (refer to "Setting The Float Mode Levels").
11. Check to make sure the front cover, tube shield and acceptor are properly installed.
12. Test the changer with a variety of coins to ensure proper operation.

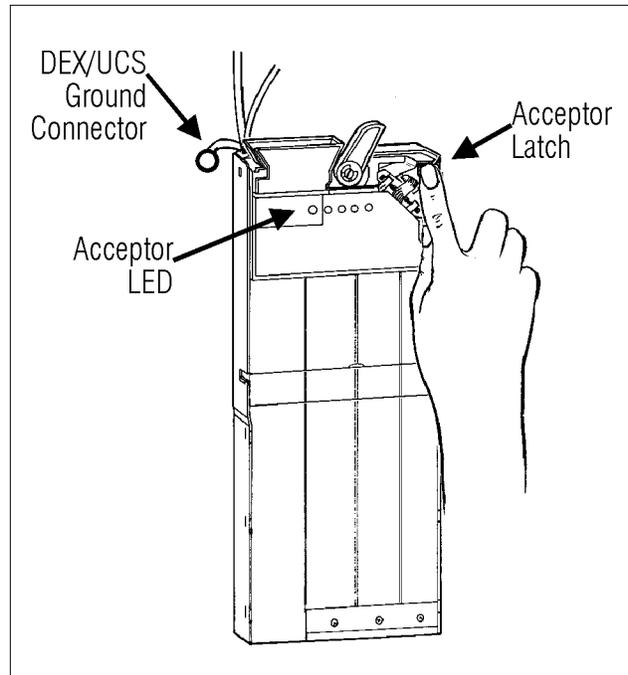


Figure 1

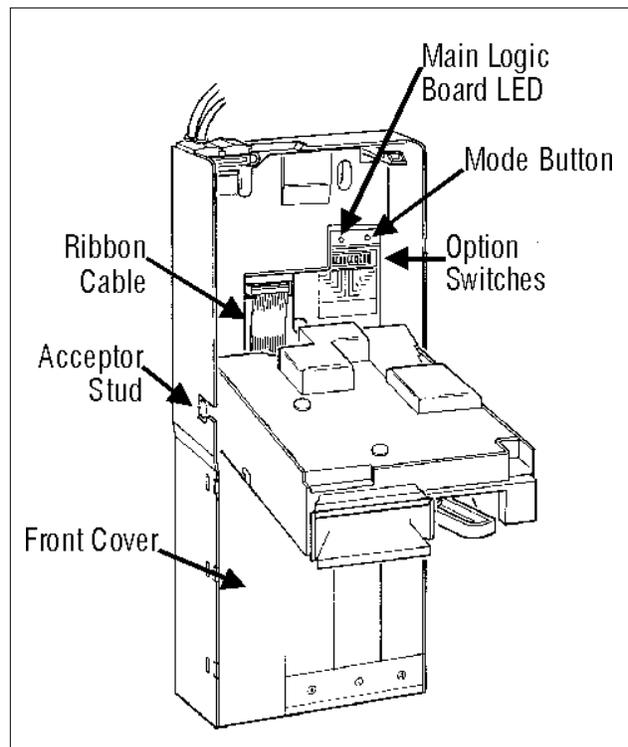


Figure 2

SECTION 2: INSTALLATION

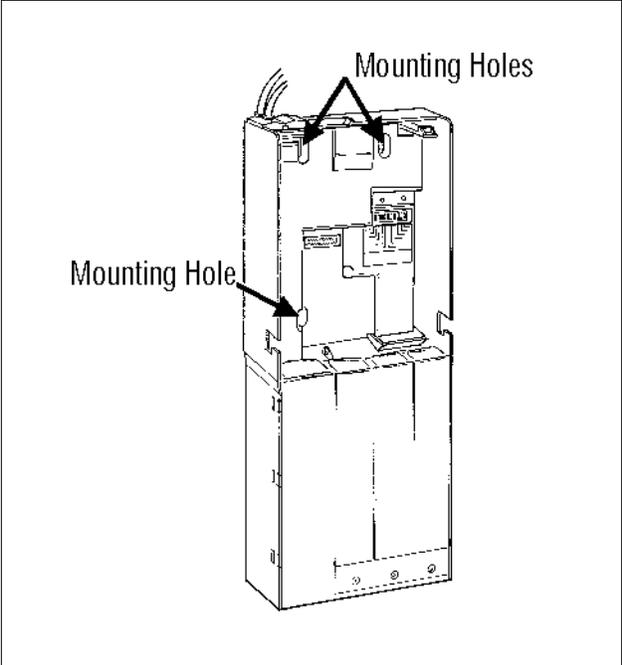


Figure 3

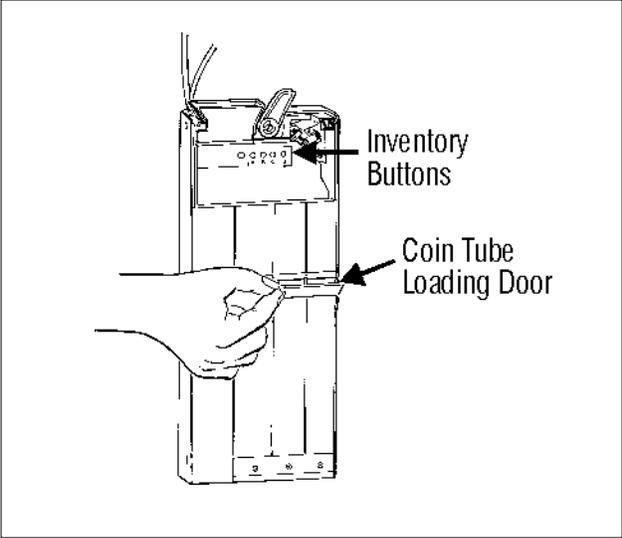


Figure 4

SECTION 3: CONFIGURATION

Single Price “S” Models

SETTING THE VEND PRICE/OPTION SWITCH

Located behind the acceptor in the middle right hand side of the changer housing are twelve switches (see figure 2). The vend price is set using the first eight switches, the last four switches are used to enable or disable different options.

VEND PRICE

The vend price is set in single increments up to 255 times the lowest denomination coin accepted by the changer and routed to a coin tube. In most cases this will be a nickel.

Example: If the lowest denomination coin accepted to a tube for payout is a nickel, the highest vend price setting would be 255 (times) .05 or \$12.75, in this case the value of the price switches are: 1=.05, 2=.10, 3=.20, 4=.40, 5=.80, 6=1.60, 7=3.20, 8=6.40.

When the top of the rocker switch is pushed in, it is in the ON position. If switches 1, 3 and 4 are ON, the vend price would be \$.65, if the lowest denomination coin accepted to a payout tube is a nickel.

OPTIONS

SWITCH A (SWITCH 9)

Controls the escrow feature of the changer.

ON Escrow inhibited

OFF Escrow enabled

SWITCH B (SWITCH 10)

Not used.

SWITCH C (SWITCH 11)

Vend signal length.

ON Vend is held until a selection is made

OFF Vend is pulsed (300 msec)

SWITCH D (SWITCH 12)

When to enter “Use Correct Change” condition.

ON The changer will use the vend price plus the largest denomination coin accepted (U.S. = \$1.00). This is the amount of money reported in the tubes to the logic board to shut the correct change light off.

Example: \$.50 vend price plus \$1.00 coin = \$1.50

OFF The changer uses the factory settings.

U.S. = \$1.00, Canada = \$2.00

SAVING THE VEND PRICE

To save the vend price and option switch setting (in the coin changer’s memory), press and release the Mode Button located above the price switch. The Main Logic Board LED and the “Use Correct Change” light on the vendor will flash once, indicating that price was recorded.

The vend price must be set to an amount greater than zero for the changer to accept coins.

Note: If a Single Price Changer is used in an MDB machine, set the vend prices on the machine controller board, NOT in the coin changer.

SECTION 3: CONFIGURATION

Canadian Four Price Changers

SETTING THE VEND PRICE

Located behind the acceptor in the middle right hand side of the changer housing are twelve switches (see Figure 2). The vend price is set using the first eight switches, the last four switches are used to enable or disable different options.

VEND PRICE

The vend price can be set in single increments up to 255 times the lowest denomination coin accepted by the changer and routed to a coin tube. In most cases this will be a nickel.

EXAMPLE: If the lowest denomination coin accepted to a tube for payout is a nickel, the highest vend price setting would be 255 (times) .05 or \$12.75. In this case the value of the price switches are:

1	= .05	5	= .80
2	= .10	6	= 1.60
3	= .20	7	= 3.20
4	= .40	8	= 6.40

When the top of the rocker switch is pushed in, it is in the ON position. If switches 1, 3, and 4 are ON, the vend price would be \$.65, if the lowest denomination coin accepted to a payout tube is a nickel.

OPTIONS

SWITCH A (SWITCH #9)

Controls the escrow feature of the changer.

- ON Escrow inhibited
- OFF Escrow enabled

SWITCH B (SWITCH 10)

Selects the operation mode of the changer.

- ON The unit will operate as a Four-Price changer
- OFF The unit will operate as a Single-Price changer

SWITCH C (SWITCH #11)

Vend signal length

- ON Vend signal is held until a selection is made
- OFF Vend signal is pulsed (300msec)

SWITCH D (SWITCH #12)

When to enter "Use Correct Change" condition

- ON The changer will use the vend price plus the largest denomination coin accepted (U.S. = \$1.00). This is the amount of money reported in the tubes to the logic board to shut the correct change light off. *Example: \$.50 vend price plus \$1.00 coin = \$1.50*
- OFF The changer uses the factory settings. U.S. = \$1.00, Canada = \$2.00

SAVING THE VEND PRICES

Set the vend price and option switch as desired, press and release the Mode Button located above the price switch. The main logic board LED and "Use Correct Change" light will begin flashing. Within 30 seconds, press and release any one desired selection switch on the front of the machine. The present setting on the price switch is now set for all selections on that price line. Repeat this procedure for the remaining three price lines. *Note: If a price is set to zero, that selection will vend for free.*

MDB & Logic Changers

SETTING THE VEND PRICE

Vend prices for MDB and Logic coin changers are set through the vending machine controller (VMC). See vending machine manual for details.

SECTION 3: CONFIGURATION

Setting The Vend Price On A Four-Price Changer

The vend price may be set on a four-price changer in two ways:

- via the first eight Option Switches;
- via Global Support Tools.

VIA OPTION SWITCHES

Located directly above the Option Switch Module is the Main Logic Board LED and the Mode Button (see Figure 2).

1. Set the vend price by adding the amount of the appropriate switches and setting them to the ON position (see Figure 5).
2. Set Option Switches A, C and D to the desired configuration (see “Option Switch Module” section of this manual). Switch B must be ON in a four-price changer.
3. After setting the desired vend prices and options on the Option Switch Module, PRESS AND RELEASE the Mode Button. The Main Logic Board LED and “Use Correct Change” light will begin flashing.
4. Within 30 seconds, press and release any one desired product selection switch on the front of the machine. The present price on the switch module is now set for all selections on that price line and the Main Logic Board LED and “Use Correct Change” light will stop flashing.
5. Repeat Steps 3 and 4 until the remaining three price lines have been assigned a vend price.

EXAMPLE: If the first, fourth and fifth price setting switches are in the UP position, the vend price setting would be 25 x 1 or 25 (assuming the lowest denomination coin accepted is 1).

NOTE: If the price for one or more of the selections is set to zero, that selection is a free vend.

VIA GLOBAL SUPPORT TOOLS

Consult Global Support Tools manual for price setting instructions.

Setting The Vend Price On L/L+ and MDB Changers

Vend prices for L and MDB changers are set through the vending machine controller (VMC). See vending machine manual for details.

Manual Fill Mode

When Float Mode is OFF (see “Float Mode” section of this manual), the acceptor LED will be constantly ON and all coin tube levels are set to the high tube sensor. Pressing and releasing acceptor buttons C & D will enter the Manual Fill Mode and the acceptor LED will

Filling the Coin Tubes

HAND LOADING

To hand load the coin tubes, tilt the coin tube loading door open, load the four tubes with appropriate coins. **Make sure all coins lay flat** and that each tube is filled at least to the 20% mark (\$.05 = 15-16 coins, \$.10 = 23-24 coins, \$.25 = 18-19 coins, \$1.00 = 15-16 coins). Payout at least two coins from each tube to verify tubes are loaded correctly.

Note: If your Four Tube coin changer does not have a quarter or dollar payout tube, it is best to load one nickel tube and/or one dime tube all the way to the top (to cover the upper tube sensors) rather than filling multiple similar tubes part way full. This will ensure the bill acceptor stays enabled for a longer period of time.

SECTION 3: CONFIGURATION

Example: A USD-G710 has four nickel tubes. If you are hand loading the payout tubes and do not have enough nickels to completely fill all four tubes, load each tube with approximately 15 coins. Then with the remaining coins, fill at least on nickel tube to the top.

LOADING THROUGH THE ACCEPTOR

Hand loading coins directly into the coin tubes and making sure they lay flat is one way to fill the Four Tube changer with coins. If you are keeping track of the DEX information for accounting purposes, the coins loaded into the tubes need to be counted by the acceptor.

- “MDB” and “L” changers use the vending machine controller board’s “Tube Fill” or “Coin Fill” mode. Refer to the vending machine manual for details.
- For Single Price and Four Price changers, use the coin changer’s “Manual Fill Mode”.

MANUAL FILL MODE

Manual fill mode can be used to fill the tubes of the coin changer, through the acceptor, without accumulating credit and having to vend the credit away. The advantage of this is that coins are accounted for in the DEX fields of a Single-Price and Four-Price changer.

To enter the Manual Fill Mode, press inventory buttons C and D at the same time. The acceptor LED will flash an equal pattern of ON and OFF to indicate the Manual Fill Mode is active. Coins inserted through the acceptor will be routed to their proper tubes. When the high sensor is reached, coins will be directed to the cash box. The changer will automatically exit Manual Fill Mode after 45 seconds of no activity, or if the coin return lever is pressed and released.

Float Mode

Float Mode is used to reduce the number of coins kept in a tube to a level anywhere between the upper and lower tube sensors.

The COINCO FOUR-TUBE changer supports one of two factory programmed Float Mode operations. They are Float Level and Float Pay-Down..

FLOAT LEVEL (STANDARD ON USD MODELS)

In Float Level, coins are filled to a chosen level between the upper and lower tube sensors. Once the Float Level is set, coins will only be routed to the tube if a coin was paid out for change. Accepted coins normally routed to that tube will be sent to the cash box.

FLOAT PAY-DOWN (OPTIONAL, HAS TO BE SET AT THE FACTORY)

In Float Pay-Down, coins are filled to a chosen level between the upper and lower tube sensors. Once the level is set, coins will continue being routed to the tube until the upper sensor is covered, then they will be routed to the cash box. Activating the Float Pay-Down by pressing inventory buttons A and B simultaneously will pay down any coins above the level you previously set. After the coins are paid down, the acceptor will automatically go into manual fill mode. In manual fill mode, the acceptor will only route coins to tubes that are below the set level. Once the level is reached, the coins will be rejected.

SECTION 3: CONFIGURATION

SETTING THE FLOAT MODE LEVELS

The Float Mode Levels for both Float Level and Float Pay-Down are set for all four tubes using the acceptor inventory buttons.

1. Using “Tube Fill”, “Coin Fill”, or Manual Fill mode, fill the four tubes to the float level you want the changer to maintain.
2. Press and release the A and D inventory buttons simultaneously. The acceptor LED will flash an equal ON and OFF pattern.
3. Within two seconds, press and release inventory buttons B and C at the same time to store the tube levels and turn the Tube Float Mode ON. The acceptor LED will now display a flash pattern of 10% ON and 90% OFF to indicate the levels are set.

Note: To turn off the Float Mode, repeat steps 2 and 3.

ACTIVATING FLOAT PAY-DOWN

Press and release acceptor inventory buttons A and B simultaneously. After the tubes pay down, Manual Fill Mode is automatically entered to allow low tubes to be replenished through the acceptor. When the float levels are reached, coins are directed to the coin return. The changer will automatically return to operating mode after 45 seconds of no activity or if any inventory button is pressed and released.

Changing the Coin Tubes REMOVING/REPLACING THE TUBES

To change the coin tubes, remove the acceptor and tube shield from the changer housing. Next, remove the front cover by spreading the sides of the changer housing apart and pulling forward on the front cover just enough to disengage its taps. Remove the four inventory tubes one at a time (starting from the left side and working to the right) by pulling upward.

Replace the tube and shim assemblies by inserting the tube’s dovetails into the guides in the housing and push down.

Coin tubes should be arranged in the order specified on page 2.

If a U.S. \$.25 tube is installed in location “A”, Coinco pad # 923361 needs to be added to the payout base.

TUBES AND SHIMS

The coin tubes for your COINCO FOUR-TUBE changer are different sizes to accommodate the different diameter coins.

Each coin tube has a removable, color-coded shim which adjusts the tube for the coin’s thickness.

For **USD** coin changers, the COIN/TUBE/SHIM combinations are:

COIN	TUBE#	PART#	SHIM	PART#
\$.05	#7	921816	(Blue)	921462
\$.10	#10	921791	(Red)	921800
\$.25	#5	921795	Blue	921462
\$1.00	#4	921794	(Lt. Gray)	921802

For **CAD** coin changer, the COIN/TUBE/SHIM combinations are:

COIN	TUBE#	PART#	SHIM	PART#
\$.05	#7	921816	(Blue)	921462
\$.10	#10	921791	(Gold)	921856
\$.25	#6	921789	(Black)	921801
\$1.00	#4	921794	(Lt. Gray)	921802

NOTE: For CAD units, if a \$.25 tube is installed in the “A” tube location, use tube #5 with a black shim.

The shims are removed and replaced by sliding them in or out of the bottom of the tube. Do not reuse shims. Continuous installation and removal can stress the plastic, causing the shims to lose their ability to stay firmly in place.

SECTION 3: CONFIGURATION

Rerouting the Coins

Whenever the coin tubes are rearranged, the programmable acceptor has to be reconfigured to route accepted coins to either the correct tube or vendor cashbox.

To reconfigure the acceptor, apply power to the Four-Tube Changer.

- Press inventory buttons A B and D simultaneously for 2 seconds (until the acceptor LED goes out).
- Release the inventory buttons, and the LED will flash an alternating pattern of 1-second ON/ 1second OFF, then 2 seconds ON/ 2 seconds OFF. This indicates the rerouting process is waiting for a coin destination (coin tube or cashbox) to be selected.
- To select a coin tube, press and release its inventory button. Once the coin destination has been selected, the LED will flash a 1-second- 50% ON / 50% OFF sequence.
- Drop the appropriate coin for the tube you have chosen into the acceptor. An accepted and validated coin will be routed and assigned to the tube you've chosen.

Example: For a payout configuration of 25 – 10 – 10 – 05 (USD-_ 708)

- Press and release inventory button A, insert a quarter through the acceptor.
- Press and release inventory button B, insert a dime through the acceptor.
- Press and release inventory button C, insert a dime through the acceptor.
- Press and release inventory button D, insert a nickel through the acceptor.

Any coin dropped through the acceptor before a coin tube is selected will be routed to the vendor's cashbox. Valid coins not assigned to a tube will also be routed to the cashbox.

- To save the new routing information and exit the rerouting mode, hold the coin return lever down for 4-5 seconds (until the acceptor LED returns to its normal pattern) or wait 45 seconds and the Four-Tube changer will automatically save the routing information and exit this mode.

NOTE: If power is removed from the changer before the rerouting information is saved, all new routing information will be lost.

SECTION 4: MAINTENANCE

Routine Maintenance

Routine maintenance will improve performance and extend the life of your COINCO FOUR-TUBE changer and reduce the need for more involved repairs. Frequency of maintenance will depend on environment and number of transactions.

The coin changer should be kept in its original shipping carton when not in use. This will keep the changer clean and offer the best protection for the unit.

Cleaning

The majority of your COINCO FOUR-TUBE changer is manufactured from a high-quality plastic, which should be cleaned with a warm water and mild detergent solution.

- CAUTION:**
- Never submerge changer in water.
 - Do NOT use petroleum solvents, steel wool, scouring pads, or metal brushes for cleaning.
 - Do not spray any part of the changer with any type of lubricant.

Since all coins share a common coin ramp, heavy usage or a dirty environment can result in dirt build-up in the acceptor. To clean the coin ramp, lift the acceptor gate upward and diagonally to the right. Hold the gate to prevent it from snapping back. Wipe the exposed coin ramp and inner surfaces with a damp cloth. Be cautious not to harm the coin stabilizer (clear, thin piece of film). If the coin stabilizer looks buckled, wrinkled, or is peeling off, replace it at this time.

For excessively dirty units, use a damp cloth with a mild detergent. *DO NOT SUBMERGE UNIT IN WATER.*

For more detailed cleaning of the acceptor, remove the front cover by opening the coin tube loading door and wedge your thumb underneath the front cover. To remove the cover, push out and up. Next, remove the intermediate cover using a small screwdriver to release tab on the right side of the acceptor. Pivot the intermediate cover out towards the left. Lift the metal debounce rail out of the acceptor. You are now able to fully clean the interior coin rail, gates and the intermediate cover (pay attention to the mirrored surface on the intermediate cover).

Reassemble the acceptor in the reverse order.

NOTE: When installing the intermediate cover, make sure the metal debounce rail is in place and raise the anti-stringing door on the accept/reject gate before snapping the cover in place.

Removing/Replacing Individual Assemblies

ACCEPTOR

To remove the acceptor, press down on the acceptor latch and pull the top of the acceptor forward and away from the changer housing. Unplug the ribbon cable from the changer. Raise the acceptor and pull outward until the acceptor clears the housing slots.

FRONT COVER AND TUBE SHIELD

Remove the front cover by gently pulling forward on the front cover while spreading the sides of the changer housing apart. There are 3 tabs on each side of the front cover that hold it in place. Lift the tube shield off the top of the coin tubes.

REMOVING THE TUBES

The tubes are held in place by 3 sets of tabs that secure it to the payout base.

To remove the tubes, start with the tube on the left side and pull it straight up. Working your way to the right, remove all four tubes.

SECTION 4: MAINTENANCE

REMOVING THE LOGIC BOARD COVER

To remove the logic board cover, first remove the strain relief bracket and screw. Next, remove the screw in the lower center portion of the logic board cover. Lift the cover out.

REMOVING THE UPPER TUBE SENSOR BOARD

Connected to the bottom of the main logic board is the upper tube sensor board. To remove the sensor board, release the locking tab and gently pull the sensor board out. As you pull the sensor board out, hold the main logic board in place and the sensor board will unplug from the main logic board.

REMOVING THE LOGIC BOARD

Unplug the remaining harnesses from the main logic board and lift it out of the housing.

REMOVING THE PAYOUT BASE ASSEMBLY

With the harnesses disconnected from the main logic board, remove the two screws (one on each side) from the changer housing. Lay the changer on its back and spread the sides of the housing apart. Pull up and out on the payout base assembly.

REMOVING THE CASHBOX CHUTE

From the backside of the changer housing, remove the tape seal from the cashbox chute. Lift the bottom of the chute up and slide the cashbox chute out.

REMOVING THE CASHBOX CHUTE

From the backside of the changer housing, remove the tape seal from the cashbox chute. Lift the bottom of the chute up and slide the cashbox chute out.

Clearing Coin Jams

Should a coin jam occur in the cash box chute area, use the following steps to help dislodge coins:

1. Remove changer from vendor.
2. Keeping changer in an upright position, remove cash box chute (located on the back of the changer) by pulling lower edge out and down at the same time.
3. Remove any lodged coins.
4. Replace the cash box chute by pressing in and up to snap into place.

SECTION 5: TROUBLESHOOTING

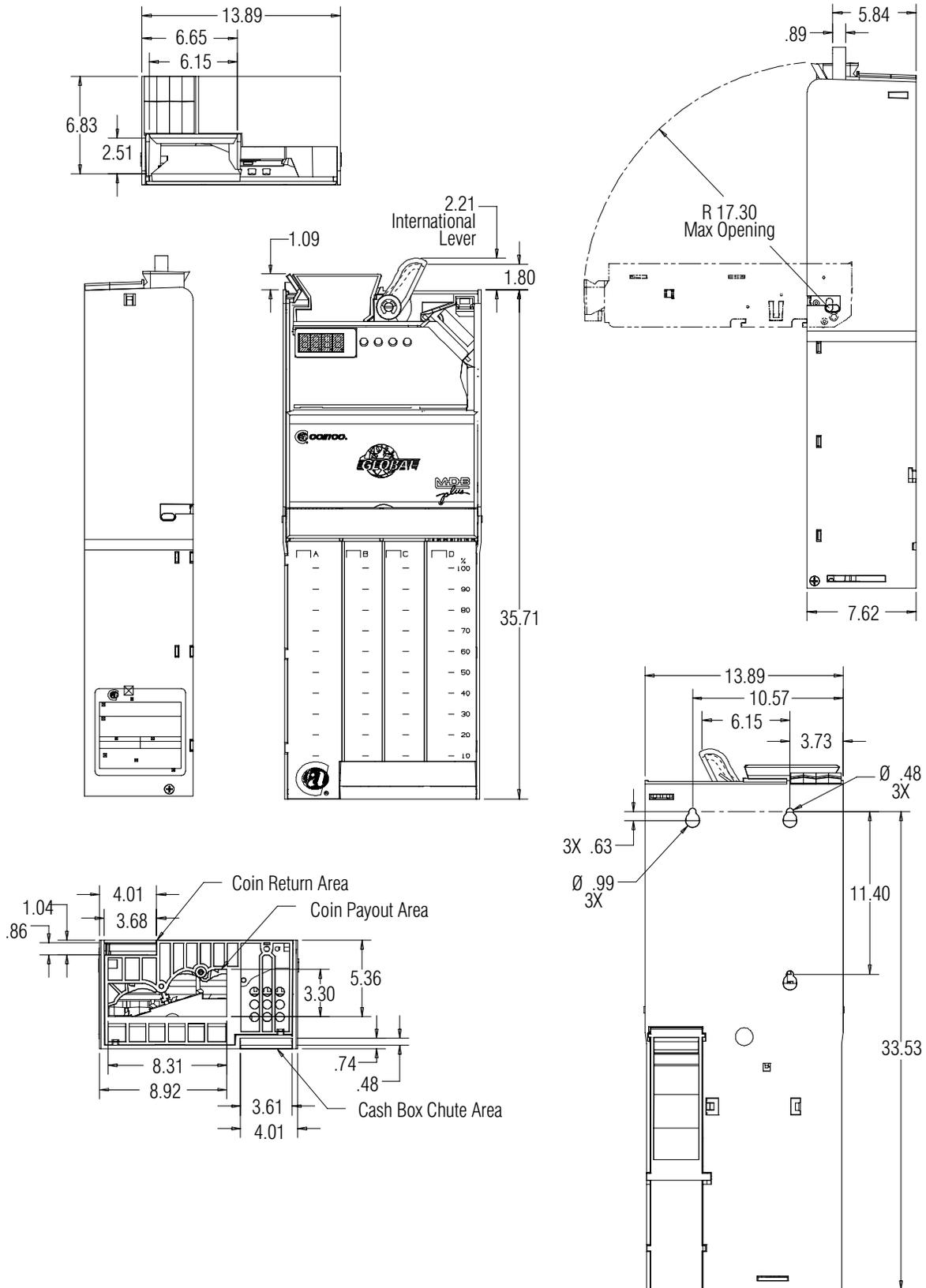
TROUBLESHOOTING GUIDE

TROUBLE	POSSIBLE CAUSE	PROCEDURE	REMEDY
Accepted Coins Always Go to Cashbox	Front Cover	Check front cover for proper installation, check the mirrors	Clean or replace front cover.
	Acceptor	If coin still goes to cashbox, replace acceptor with good acceptor and test to see if changer functions properly. If coin still goes to cashbox,	Reprogram acceptor coin routing. Replace acceptor.
	Tube Sensor Board	Check the sensor board for loose components. Make sure tube sensor board is properly secured to main logic board. Check cable from sensor board for damage or improper connection. If coin still goes to cashbox,	Replace tube sensor board. Replace changer's main logic board
Accepted Coins Always Go To Coin Tubes	Coin tube gate is in the open position	Remove acceptor back cover and check solenoid for free operation.	Replace acceptor.
	Tube Sensor Board	Replace tube sensor board with good board and test to see if changer functions properly. If coins still go to tubes,	Replace tube sensor board. Replace changer's main logic board.
Changer Credits Coins But Does Not Escrow	Coin return lever	Make sure changer is mounted correctly and acceptor gate opens when vendor coin return lever is operated.	Reposition changer and/or vendor coin return lever.
	Acceptor	Replace acceptor with good acceptor and test to see if changer operates correctly.	Replace defective acceptor.
	SINGLE PRICE ONLY Switch 9 is ON-escrow is inhibited	Uninhibit the escrow feature.	Turn Switch 9 OFF and press the Mode Switch.
No Payout	Payout Motor	Make sure motor wires are properly connected to changer's main logic board.	Plug motor wires into main logic board.
		If still no payout, replace motor with good motor and test to see if changer operates properly.	Replace defective payout motor.
		Make sure coin is routed to that tube.	

SECTION 6: EXPLODED VIEWS

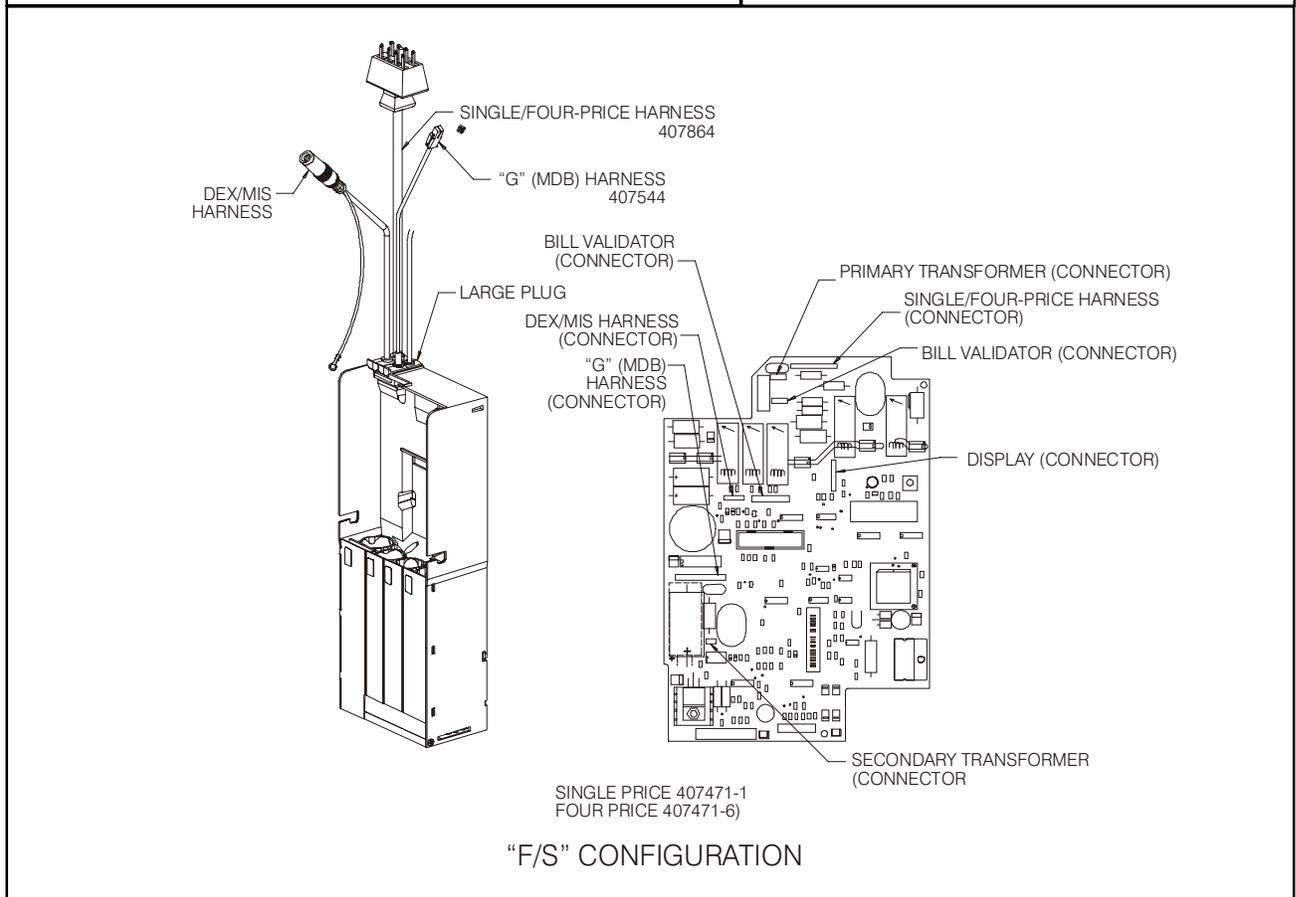
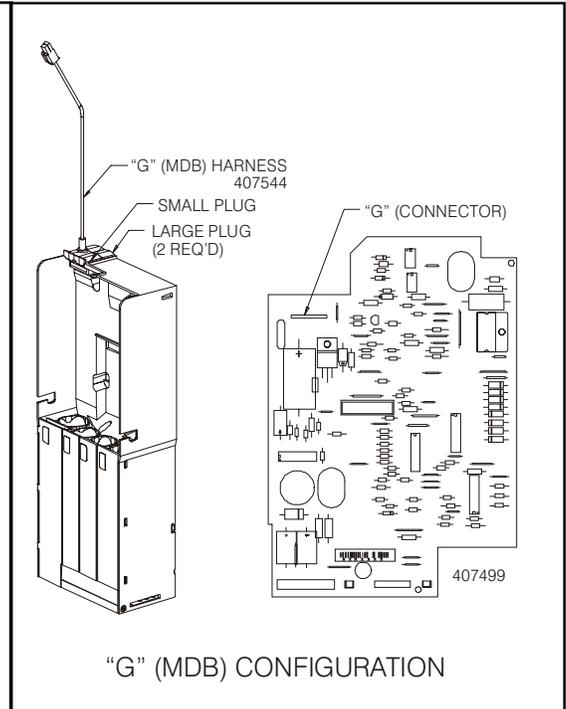
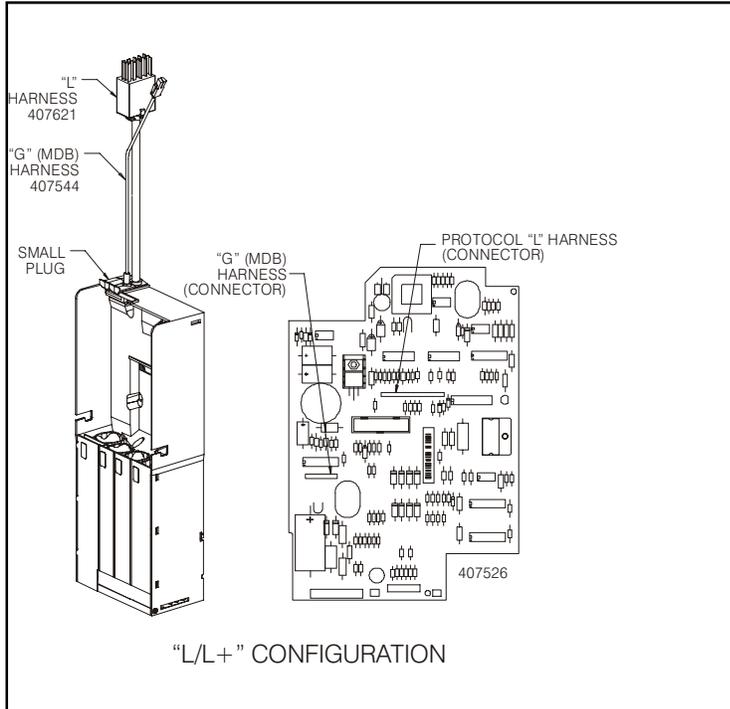
700 Series Dimensional View

ALL MEASUREMENTS ARE SHOWN IN CENTIMETERS



SECTION 6: EXPLODED VIEWS

700/800 Series Harness and Logic Board Configuration



COIN ACCEPTORS, INC. PRODUCTS ARE PATENTED, AND PATENTS ARE PENDING,
IN THE UNITED STATES AND THROUGHOUT THE WORLD.



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