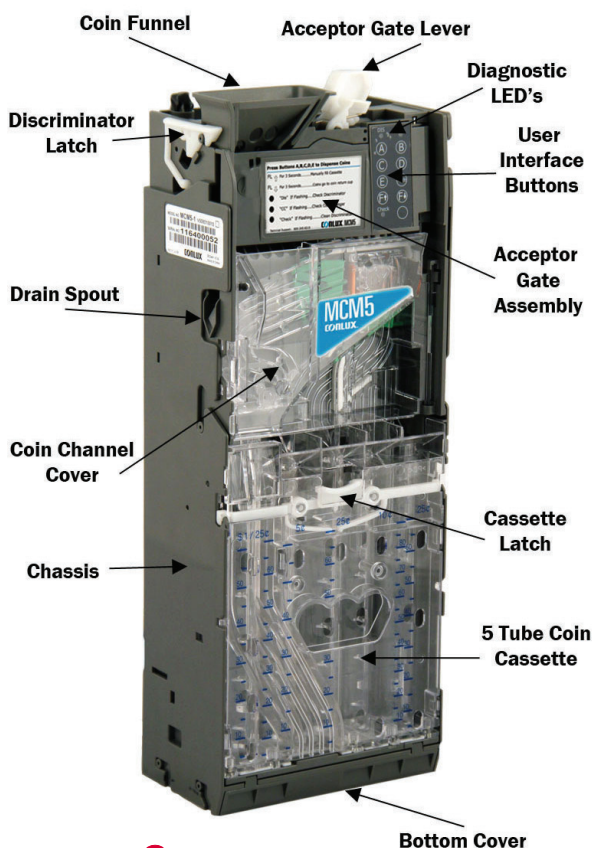


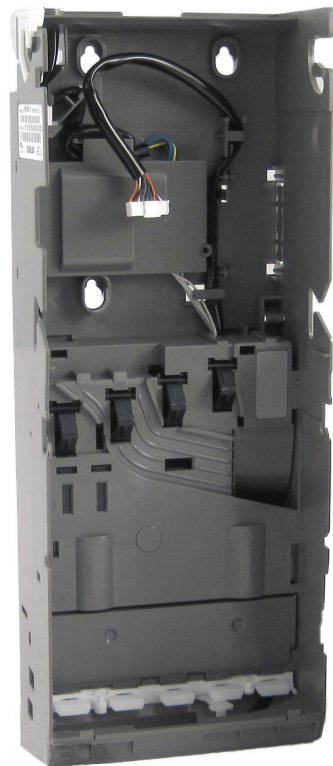
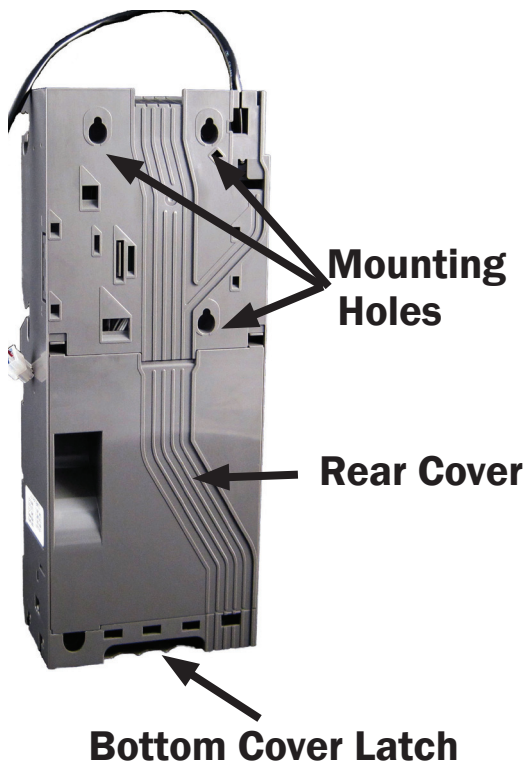
CONLUX[®]

MCM5

Installation Guide



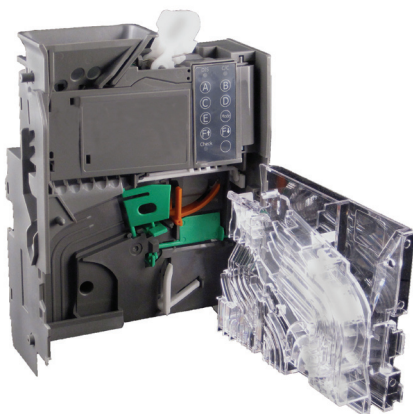
MEI
1301 Wilson Drive
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Customer Support 1(800)345-8215



Coin Dispenser

Discriminator Assembly

Coin Cassette



A B C D E

GENERAL INFORMATION

CONLUX MCM5

This document contains information for installing the MEI Conlux MCM5 coin mechanism.

The features of the Coin Mechanism include:

- MDB interface
- Disable coins by denomination
- Token supported
- Additional Float options
- Sturdier return lever

This product fits into the standard coin changer channel provided by vending machine manufacturers. It mounts on the existing three mounting studs/screws located in the vending machine.

INTERFACE

MEI Conlux MCM5 coin mechanism operates in machines that support the MDB interface*.

Rated Operating Voltage
Voltage: 34v d.c. 12W
0.92A at DC34V peak

The operating voltage of a MEI Conlux coin mechanism is stated on the label of each product. The label is located on the left side of the coin mechanism.

Weight 3.5 lbs.

Compliance UL standard, FCC standard

**Note: MDB (Multi drop bus) interface information can be found on*

NAMA's website located at www.vending.org

INSTALLATION INSTRUCTIONS

Before you begin...

- Remove the coin mechanism from the packaging material. Inspect unit for physical damage.

Tools Needed:

Phillips screw driver

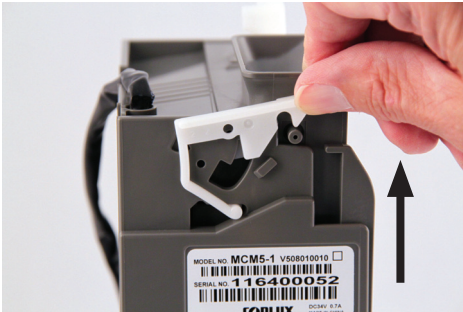
Wire Tie wraps

Wire Tie wrap adhesive anchors

Wire cutters

Mild detergent

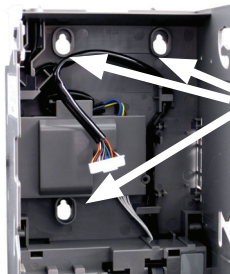
- Turn **OFF** the power supply to the vending machine.
- Lift up on the **White lever** on the top left side of the coin mechanism and tilt the Discriminator assembly forward.



PUSH UP



TILT OUT



**3 Mounting
Holes**

HANG SECURELY

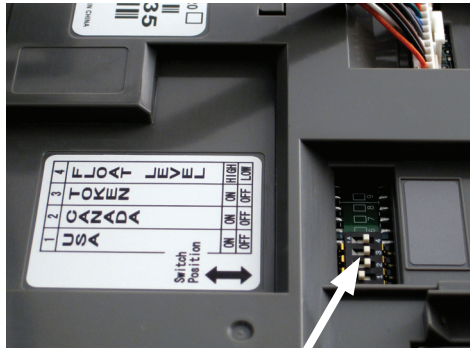
- Once open, the mounting holes are accessible. Hang the coin mechanism on the mounting studs/screws, ensuring that the coin mechanism is mounted vertically with no tilt on all three studs/screws
- Tighten the screws (if required),

Currency Switch

(Located on the back of the Discriminator Unit.)

1	2	3	4
U S A	C A N A D A	T O K E N	F L O A T L E V E L
ON	ON	ON	HIGH
OFF	OFF	OFF	LOW

Switch
Position



DIP SWITCHES

➔ Check / Set the **DIP** Switches. Close and latch the discriminator assembly.

Switch Number	Function
#1 USA On/Off	On - Accept United States Coins
#2 Canada On/Off	On - Accept Canadian Coins
#3 Token On/Off	On - Accept Tokens
#4 Float Low/High	Set Float either Low (\$34.00) or High (\$52.00)

Reading the Conlux Serial # 117400052

First two digits are the year - 2011

Second digit is the month - July

X = October

Y = November

Z = December

Ignore the rest of the numbers

ALIGNMENT

- Once the coin mechanism is installed, check that there is a small gap (2 mm) between the lever on the vending machine and the return lever on the coin mechanism.

Confirm that when you press the coin return lever on the machine door, it opens the acceptor gate on the coin mechanism enough to release the coin, then returns smoothly without holding the gate open.

- Check the alignment of the coin input chute and cashbox chute. Insert some coins to check that they enter the coin mechanism properly and exit into the return cup. Ensure that the coin chute does not rest on or open the acceptor gate.

Most machines allow you to adjust the return lever, coin chute, and the return cup to align with the coin mechanism. Align, adjust, and test as necessary to ensure coins are properly routed before continuing with these instructions.

CONNECTION

If the vending machine has a bill validator, connect the MDB harness coming from the coin mechanism to the bill validator's "Y" connector. If there is no bill validator, connect the coin mechanism harness to the harness coming from the vending machines control board.

Tuck any excess length of harnessing inside the machine. Make sure no harness is pinched or trapped when the coin return lever is pressed or when the vending machine door is closed.

- Now you may switch **"ON"** the power to the vending machine.

COIN CASSETTE

The coin mechanism can be ordered with one of two cassette configurations for both the USA and Canada. The USA and CANADA use the same cassettes.

- Remove cassette by using your thumb to depress the white latch and tilt the cassette forwards and lift upwards as shown.



COIN CASSETTE

The cassette type will be recognized automatically by the coin mechanism.

Types of cassettes and the denomination configurations

			Tube A	Tube B	Tube C	Tube D	Tube E
	Type	Feature					
1	US-1	Denomination	25 ¢	5 ¢	25 ¢	10 ¢	25 ¢
		Auto Storing	No	Yes	Yes	Yes	No
		Empty Qty (Note 1)	6	8	8	10	5
		Full Qty (Note 2)	71	64	71	97	71
2	US-4	Denomination	1 \$	5 ¢	25 ¢	10 ¢	25 ¢
		Auto Storing	Yes	Yes	Yes	Yes	No
		Empty Qty (Note 1)	5	8	8	10	5
		Full Qty (Note 2)	63	64	71	97	71

Note 1: If lower sensor detects coins, then there are coins to at least the Empty quantity.

Note 2: If the coins reach the upper sensor, the tube is considered full.

LOADING THE COIN CASSETTE

You can load the coin cassette using either of these two techniques: By manually removing the cassette, placing it front down on a firm surface, opening the latches and filling it or manually inserting coins from the front.

Loading Manually by Removing Cassette

1. Remove the cassette. Place it front down on a firm surface. Open the back by pinching the two tabs together and levering it open on the hinge. Fig 1.
2. It is recommended that you fill each tube (nickel, dime, quarter, and dollar) if available, with at least 15 coins. Each tube will hold 2 rolls of coins.

Note: Insure that coins are inserted into the proper tubes. Do not fill above the MAX FILL line. Fig. 2

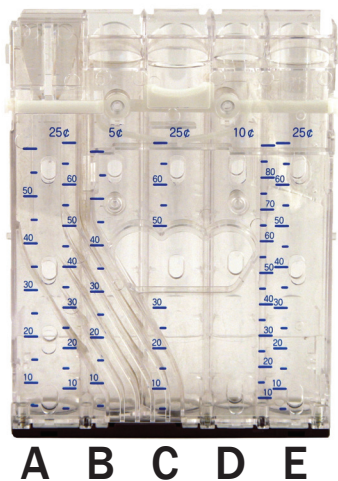


Fig. 1



Fig. 2

Loading Manually from the Front

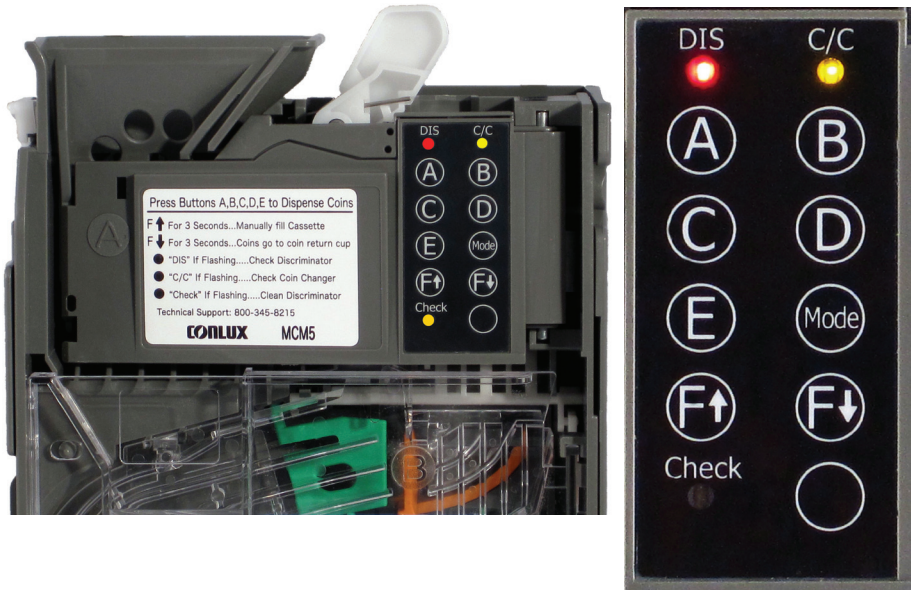
1. Press down on the white Cassette Latch in front and tilt the top of the cassette out until you can lift the cassette from the coin changer. Stand the cassette on a firm surface.
2. From the front, manually load the coins into tubes A, B, C, D, and E.

DIAGNOSTIC LED's
















Error status will be reported to the main controller, and LEDs will flash as below:

“DIS”: Error of discriminator (Upper part of body)

“C/C”: Error of coin changer (Lower part of body)



User Interface Buttons

DIS	C/C	Check Light	Status
			Ready
			Check Discriminator for ERROR
			Check Coin Changer for ERROR
			Check and CLEAN the Discriminator
OFF	ON	FLASHING	Press the unmarked button to clear the Check Light
			

TOKEN TEACH

Token teach mode is entered by pressing the Mode and B button simultaneously for longer than 2 seconds. When this mode is entered, the C/C LED will flash rapidly. The user must then drop 10 tokens with at least 1 second intervals between tokens. The mode will automatically end after the 10th token is dropped. If successful, the C/C LED will illuminate continuously.

REJECTION OF COINS

Coins will not be accepted under the following conditions:

- Power - off .
- During coin dispensing.
- If there is an Error. The DIS or C/C LED flashing.
- Boot-up status. (Approx. 2 seconds after power-on).
- The coin denomination is set to be rejected.
- There are not enough change coins in the tubes.

INVENTORY CONTROL

Float Down

The Float Down mode is entered by pressing the F↓ button for 3 seconds or longer. When active, the C/C LED will blink rapidly and the coin mechanism will automatically dispense coins from all the tubes until the float level for that tube is reached. If the number of coins in a tube is equal or less than the float level, no coins will be dispensed. When the float levels have been reached, the mode will exit automatically.

The coin mechanism will blink the C/C light slowly for 5 seconds on exit if one or more tubes have less than the float level and requires filling.

How to Utilize the Float/Par Factory Settings

The user must start with an empty cassette.

- The DIP switch should be set to either - Float High \$52.00 (ON) or Float Low \$34.00 (OFF) depending on which value will be utilized.
- Remove the empty cassette from the MCM5. Place it on a hard surface and fill it with the coins indicated on chart #1.
- Press and HOLD the “F↑” button for three (3) seconds. The C/C light will flash rapidly.
- Place the filled cassette back into the MCM5. The C/C light will continue to flash rapidly, then flash 3 times slowly and return to steady **ON**. You have successfully set the Float/Par.

AFTER A PERIOD OF OPERATION:

To empty excess coins from the changer and return it to the Float value, press and HOLD the “F↓” button for (3) seconds. The excess coins will be sent to the return cup. If a tube does not have coins up to the Float/Par level, no coins will be dispensed from that tube.

FLOAT / PAR

These Float / Par levels are pre-programmed in the factory to the following values:

Float 1 - \$34		<u>CHART #1</u>	Float 2 - \$52	
Switch Position Low (ON)			Switch Position High (OFF)	
Cassette US-1			Cassette US-1	
Tube A - 25¢	40 coins = \$10		Tube A - 25¢	60 coins = \$15
Tube B - 5¢	40 coins = \$ 2		Tube B - 5¢	60 coins = \$ 3
Tube C - 25¢	40 coins = \$10		Tube C - 25¢	60 coins = \$15
Tube D - 10¢	40 coins = \$ 4		Tube D - 10¢	60 coins = \$ 6
Tube E - 25¢	32 coins = \$ 8		Tube E - 25¢	52 coins = \$13
Cassette US-4			Cassette US-4	
Tube A - \$1	10 coins = \$10		Tube A - \$ 1	30 coins = \$30
Tube B - 5¢	40 coins = \$ 2		Tube B - 5¢	40 coins = \$ 2
Tube C - 25¢	40 coins = \$10		Tube C - 25¢	40 coins = \$10
Tube D - 10¢	40 coins = \$ 4		Tube D - 10¢	40 coins = \$ 4
Tube E - 25¢	32 coins = \$ 8		Tube E - 25¢	24 coins = \$ 6

USER FLOAT / PAR PROGRAMMING

The default Float /Par levels can be set to different values by a user. To set a user determined float level, follow this procedure:

- The user must empty the current cassette.
- The DIP switch must be set to either Float High (Off) or Float Low (ON) depending on which value will be re-programmed.
- Press the Mode and C buttons simultaneously. If one of the low level sensors is covered, the C/C LED will flash slowly for 5 seconds and the coin mechanism reverts to its normal operating mode. If all the low level sensors are uncovered, the C/C LED will blink rapidly and the next step can be performed.
- The user must insert coins through the coin funnel for discrimination purposes until the desired float level is reached.

The following conditions will apply:

- Unrecognized coins will be rejected.
- If the cassette contains coin tubes of an equal value, the coins will alternately be routed to each tube in turn.
- The mode will automatically exit if no coins are dropped for a period of 2 minutes.
-
- Coins will be reported on the MDB protocol as Manual Fill.
- The mode can be exited at any time without saving any data by pressing the Mode button for 2 seconds or longer.
- The cassette can be removed and replaced at anytime without affecting the current tube counts.
-
- When the cassette has been filled to the desired level, the user must press the Mode and C buttons simultaneously to save the tube levels.
- To return the float levels to the default factory programmed values, the User Par Programming mode may be entered as described above by pressing the Mode and C buttons simultaneously.

When the C/C LED is flashing rapidly, the user must press the F↓ button and the F↑ button simultaneously.

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