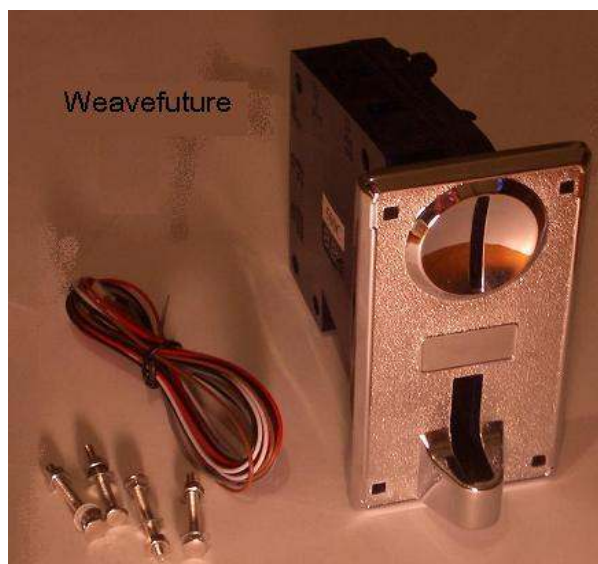


Weavefuture Coin Acceptor AC5



Version: 1.0
Date: 11/17/2005 9:45:00 PM



Table of Contents

1	3
2	WEAVEFUTURE COIN ACCEPTOR AC5 FEATURES	3
	● MULTIPLE COINS	3
	● SETUP COINS BY TRAINING	3
	● ADJUSTABLE THE RECOGNIZED ACCURACY	3
	● ALARM GUARD SYSTEM.	3
	● CAN CONNECT THE COUNTER	3
	● WORK WITH VARIES CAR WASH TIMER.	3
	● WORK WITH VARIES MAME.	3
	● OPERATE WITH THE ARCADE GAME MACHINE'S STANDARD.....	3
3	SPECIFICATIONS	3
4	OUTPUT PULSE SIGNAL	5
5	PROGRAMMING PROCEDURE	5
5.1	ERASE THE PREVIOUS ALL COIN GROUP VALUES SETTING.....	5
5.2	ERASE THE PREVIOUS ONE COIN GROUP VALUES SETTING	5
5.3	ERASE THE PREVIOUS COIN VALUE FACTOR SETTING.....	5
5.4	SET COIN GROUP VALUES	6
5.5	EXAMPLE A : SETUP FOR CANADIAN QUARTER(0.25), LOONY(\$1.00), TOONY (\$2.00).....	6
5.6	EXAMPLE B : SETUP FOR CANADIAN NICKEL(0.05), DIME (0.10), QUARTER(0.25), LOONY(\$1.00), TOONY (\$2.00) OUTPUT PULSE ONLY UP TO 0.25.	6
5.7	EXAMPLE C: SETUP FOR US QUARTER OUTPUT 8 PULSE SIGNAL	7
5.8	EXAMPLE D : SETUP FOR US\$ NICKEL(0.05), DIME (0.10), QUARTER(0.25), OUTPUT 1 PULSE ONLY UP TO 0.25.	7
5.9	EXAMPLE E : SETUP FOR DROP 4 QUARTER(0.25), OUTPUT 1 PULSE.....	7
6	SETUP FOR MAME	7
6.1	SEE THE PICTURE BELOW FOR HOW TO CONNECT MAME KEYBOARD ENCODER.	8
6.2	CONNECT HACKED KEYBOARD, YOU CAN CONNECT THE SIGNAL LINE AND GND LINE INTO KEY 1 WHICHEVER MAME COIN KEY CONNECT TO.	8
7	SETUP FOR ARCADE	8
7.1	SEE THE PICTURE BELOW FOR HOW TO CONNECT MAME KEYBOARD ENCODER. WHEN THE GAME BOARD IS POWERED, USE VOLTAGE METERS TO CHECK WHICH LINE IS POSITIVE, THE POSITIVE LINE WILL CONNECT TO COIN ACCEPTOR AC5'S SIGNAL LINE, THE OTHER WILL CONNECT TO COIN ACCEPTOR AC5'S GND LINE.	8
8	SETUP FOR CAR WASH TIMER	9
9	SETUP FOR WATER DISPENSER TIMER BOARD	9
10	SETUP FOR WEAVEFUTURE GENERAL TIMER BOARD	9



1

2 Weavefuture Coin Acceptor AC5 Features

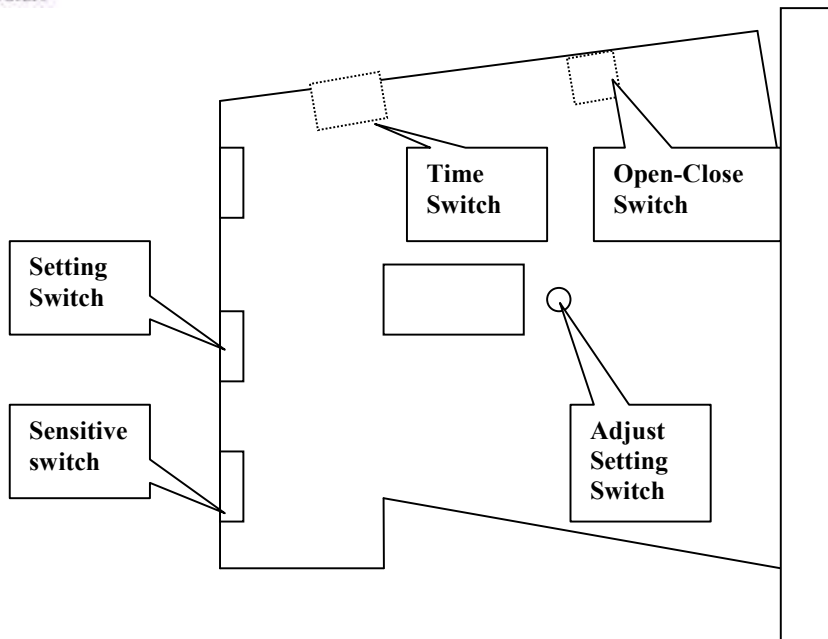
Armed with the powerful electronic microcontroller, (like a small computer system) the AC5 can automatically identify the coin by material, thickness and diameter. AC5 is designed as simple and stupid as possible.

- **Multiple coins**
It designed to set 5 different output value groups at the same time; every output value set can program 10 types coins.
Different output values mean number of output pulse.
- **Setup coins by training**
Programming the type of coin by training, When AC5 is in programming mode it memorize the data of material, thickness and diameter of the coins. When AC5 is in working mode it will recognize the coins by a complicated calculation and process these memorize data.
- **Adjustable the recognized accuracy**

There is a switch in the AC5 can adjust the accurate degree of recognizing sensitive.
- **Alarm guard system.**
The AC5 has software guard system; this guard system has alarm, which prevent opportunistic behaviors.
- **Can connect the counter**
- **Work with varies Car wash timer.**
- **Work with varies MAME.**
- **Operate with the Arcade game machine's standard.**

3 Specifications

- Apply to coin's diameter = 18m/m - 29m/m
- Apply to coin's thickness = 1.2m/m - 3.0m/m
- Work voltage = DC12V \pm 20%
- Current in 50MA in power saving mode, wake up mode 500MA
- Temperature = -20C~50C



- **Open Close Switch** to the correct mode with Normal Open (N.O) and Normal Close (N.C.) usually use Normal Open.
- **Time Switch** set the correct time length of the output pulse signal
 - FAST :25ms(short pulse signal)
 - MEDIUM:45ms(medium pulse signal)
 - SLOW:65ms(long pulse signal by TIMER SWITCH for synchronizing with your arcade game machine, or car wash timer)
- **Setting Switch** set the AC5 to working mode (switch to **start**) or set the programming mode (switch to **set**)
- **Adjust Setting Switch**, which for adjusting the coin's value, can set the coin value, when the AC5 in programming mode (**Setting Switch** switch to **set**)
 - When the **Sensitive Switch** also switch to **NOM**, "00-99" means how many times of the output pulse signal will be sent when the programmed coin was deposited,. "01" means this group may output 1pulse.
 - When the **Sensitive Switch** also switch to **MGN**, "00-99" means how many values needed to output 1 signal. (this for model which sold after Oct 1)
- **Sensitive Switch** when the AC5 in working mode, it is for accepting the coin's sensitive degree, it detects the difference between real/fake coins when inserted. when AC5 in programming mode, it also help the setup the coin output value
- Please turn on power about 10 minutes before using or setting you can get the optimal effect.
- Connecting instructions of connector:

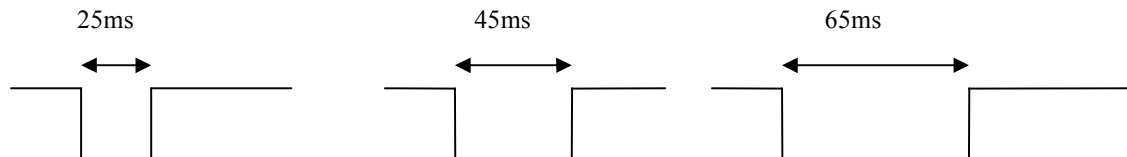
Gray line—————Coin Counter +
 Red line ——DC+12V
 White line——COIN Signal counter
 Black line ——GND(Ground)
 Gray line—————Coin Counter -



4 Output Pulse Signal

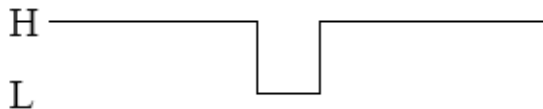
A. The output signal is one or several pulse signals. For Example, you can set that one coin of 1 dollar coin comes out one PULSE signal, or one coin of 5 dollar coin comes out five PLUSE signals.) Typical settings are Canadian Quarter 1pulse, Loony 4 pulse, Toony 8 pulse.

B. Three kinds of time length of PULSE: 25ms, 45ms, 65ms. (Selected by the switch of Fast, Medium and Slow).

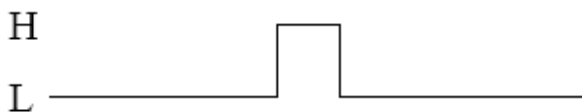


C. The **Open-Close Switch** Adjust the output signals.

Use N.O. (Normal Open), the valid output pulse signal is low.



Use N.C. (Normal Close), the valid output pulse signal is high.



5 Programming Procedure

5.1 Erase the previous all coin group values setting

- Turn the **sensitive switch** to stir to the “NOM” position
- Turn the **setting switch** to stir to the “SET” position enter programming mode, LED display “00”
- Keep press the **coin adjust switch** more than 5 seconds until you will be hear a “BI” sound and LED will display “C”, this moment is all the coin value setting is erased
- Turn the **setting switch** to stir to the “START” position exit programming mode

5.2 Erase the previous one coin group values setting

This is only for advance user.

- Turn the **sensitive switch** to stir to the “NOM” position
- Turn the **setting switch** to stir to the “SET” position enter programming mode, LED display “00”
- Press the **coin adjust switch** to adjust the coin value in turn and let the LED display the value, which you want to erase.
- Keep press the **coin adjust switch** for more than 5 seconds until you will be hear a “BI” sound and LED will display “C”, this moment is this coin group value setting is erased
- Turn the **setting switch** to stir to the “START” position exit programming mode

5.3 Erase the previous coin value factor setting

- Turn the sensitive switch to stir to the “MGN” position
- Turn the **setting switch** to stir to the “SET” position to enter programming mode, LED display “00”



- Keep press the **coin adjust switch** for 10 seconds until you will be hear a “BI” sound and LED will display “C”, this moment is the coin value setting is erased
- Turn the **sensitive switch** to stir to the “NOM” position
- Turn the **setting switch** to stir to the “START” position to exit programming mode

5.4 Set coin group values

- Turn the **sensitive switch** to the “NOM” position
- Turn the **Setting Switch** to the “SET” position enter programming mode, LED display “00”
- Press the **Adjust Setting Switch** to adjust the coin value in turn and let the LED display the value, which you needed, for example “01” or “02”. The value increase 1 upon 1 press. If you passed the value you want to set, just turn the **setting switch** to stir to “START” then turn back to “SET” again the LED will display “00”, so you can select the value again.
- Deposit the coins in turn, you can program up to 10 coins .If less than 10 coins can add and store later. For example you can prepare 10 quarters as different condition as possible. Or you can deposit 10 same or different tokens.
- Repeat above two steps to set other coin group values.
- Turn the **setting switch** to stir to the “START” position to exit programming mode

5.5 Example A : Setup for Canadian Quarter(0.25), Loony(\$1.00), Toony (\$2.00)

1. Clear all the settings. Do the **4.1** and **4.3** to erase previous settings.
2. Prepare 10 Canadian Quarters, 10 Loonies, 10 Toonies.
3. Turn the **sensitive switch** to **NOM**
4. Turn the **Setting Switch** to **SET** going to Programming mode, the display will show “00”
5. press **Adjust Setting Switch** once, the display will show “01”, drop the 10 quarters in sequence, when you drop the 10th quarter, the display will show “F” means the setting is done.(if you accident press more times, for example the display show “01” or “02”, then turn the **Setting Switch** to **START**, then turn **Setting Switch** to **SET** again the display will show “00”. So you can do the this step)
6. Press **Adjust Setting Switch** 3 times until the display show “04”, drop the 10 Loonies in sequence, when you drop the 10th quarter, the display will show “F” means the setting is done.
7. Press **Adjust Setting Switch** 4 times until the display show “08”, drop the 10 Toonies in sequence, when you drop the 10th quarter, the display will show “F” means the setting is done.
8. Turn **Setting Switch** to **START**, then your AC5 is ready to use.
9. When you drop 1 quarter, it will output one pulse signal, drop 1 Loony it will output 4 pulse signal, drop 1 Toony it will output 8 pulse signal

5.6 Example B : Setup for Canadian Nickel(0.05), Dime (0.10), Quarter(0.25), Loony(\$1.00), Toony (\$2.00) output pulse only up to 0.25.

1. Clear all the settings. Do the **4.1** and **4.3** to erase previous settings.
2. Prepare 10 Nickels, 10 Dimes, 10 Canadian Quarters, 10 Loonies, 10 Toonies.
3. Turn the **sensitive switch** to **NOM**
4. Turn the **Setting Switch** to **SET** going to Programming mode, the display will show “00”
5. press **Adjust Setting Switch** once, the display will show “01”, drop the 10 nickels in sequence, when you drop the 10th nickel, the display will show “F” means the setting is done.(if you accident press more times, for example the display show “01” or “02”, then turn the **Setting Switch** to **START**, then turn **Setting Switch** to **SET** again the display will show “00”. So you can do the this step)
6. press **Adjust Setting Switch** once, the display will show “02”, drop the 10 dimes in sequence, when you drop the 10th dime, the display will show “F” means the setting is done
7. press **Adjust Setting Switch** 3 time, the display will show “05”, drop the 10 quarters in sequence, when you drop the 10th quarter, the display will show “F” means the setting is done
8. Press **Adjust Setting Switch** 15 times until the display show “20”, drop the 10 Loonies in sequence, when you drop the 10th quarter, the display will show “F” means the setting is done.



9. Press **Adjust Setting Switch** 20 times until the display show “40”, drop the 10 Toonies in sequence, when you drop the 10th quarter, the display will show “F” means the setting is done.
10. Turn the **sensitive switch** to **MGN**
11. Press **Adjust Setting Switch** 5 times until the display show “05”
12. Turn **Setting Switch** to **START**, then your AC5 is ready to use.
10. When you drop 1 quarter, it will output one pulse signal, drop 1 Loony it will output 4 pulse signal, drop 1 Toony it will output 8 pulse signal, and only when you drop 5 nickels = 1 dime and 3 nickels = 2 dimes and 1 nickles ≥ 0.25 then it will output 1 pulse signal.

5.7 Example C: Setup for US quarter output 8 pulse signal

1. Clear all the settings. Do the 4.1 and 4.3 to erase previous settings.
2. Prepare 10 Nickels, 10 Dimes, 10 Canadian Quarters, 10 Loonies, 10 Toonies.
3. Turn the **sensitive switch** to **NOM**
4. Turn the **Setting Switch** to **SET** going to Programming mode, the display will show “00”
5. press **Adjust Setting Switch** 8 time, the display will show “08”, drop the 10 quarters in sequence, when you drop the 10th quarter, the display will show “F” means the setting is done
6. Press **Adjust Setting Switch** 15 times until the display show “20”, drop the 10 Loonies in sequence, when you drop the 10th quarter, the display will show “F” means the setting is done.
7. Turn **Setting Switch** to **START**, then your AC5 is ready to use.
8. When you drop 1 quarter, it will output one pulse signal, drop 1 quarter it will output 8 pulse signals

5.8 Example D : Setup for US\$ Nickel(0.05), Dime (0.10), Quarter(0.25), output 1 pulse only up to 0.25.

1. Clear all the settings. Do the 4.1 and 4.3 to erase previous settings.
2. Prepare 10 Nickels, 10 Dimes, 10 Canadian Quarters, 10 Loonies, 10 Toonies.
3. Turn the **sensitive switch** to **NOM**
4. Turn the **Setting Switch** to **SET** going to Programming mode, the display will show “00”
5. press **Adjust Setting Switch** once, the display will show “01”, drop the 10 nickels in sequence, when you drop the 10th nickel, the display will show “F” means the setting is done.(if you accident press more times, for example the display show “01” or “02”, then turn the **Setting Switch** to **START**, then turn **Setting Switch** to **SET** again the display will show “00”. So you can do the this step)
6. press **Adjust Setting Switch** once, the display will show “02”, drop the 10 dimes in sequence, when you drop the 10th dime, the display will show “F” means the setting is done
7. press **Adjust Setting Switch** 3 time, the display will show “05”, drop the 10 quarters in sequence, when you drop the 10th quarter, the display will show “F” means the setting is done
8. Turn the **sensitive switch** to **MGN**
9. Press **Adjust Setting Switch** 5 times until the display show “05”
10. Turn **Setting Switch** to **START**, then your AC5 is ready to use.
11. When you drop 1 quarter, it will output one pulse signal, and only when you drop 5 nickels = 1 dime and 3 nickels = 2 dimes and 1 nickels ≥ 0.25 then it will output 1 pulse signal.

5.9 Example E : Setup for drop 4 Quarter(0.25), output 1 pulse

1. Clear all the settings. Do the 4.1 and 4.3 to erase previous settings.
2. Prepare 10 Quarters
3. Turn the **sensitive switch** to **NOM**
4. Turn the **Setting Switch** to **SET** going to Programming mode, the display will show “00”
5. press **Adjust Setting Switch** 1 time, the display will show “01”, drop the 10 quarters in sequence, when you drop the 10th quarter, the display will show “F” means the setting is done
6. Turn the **sensitive switch** to **MGN**
7. Press **Adjust Setting Switch** 4 times until the display show “04”
8. Turn **Setting Switch** to **START**, then your AC5 is ready to use.
9. Only when you drop 4 quarter, it will output one pulse signal,



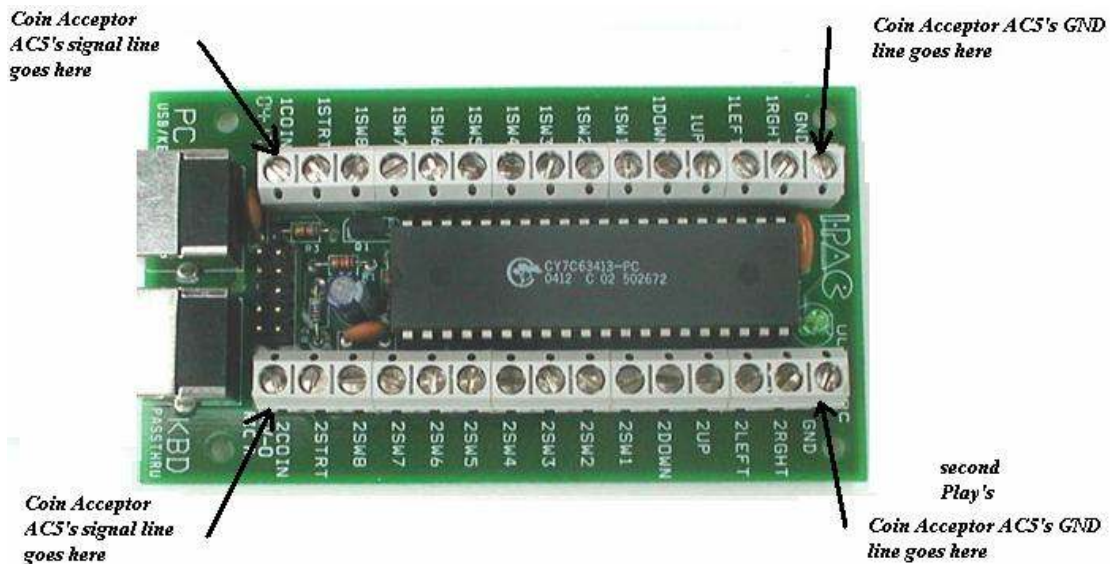
5.10 Example F : Setup for drop US Quarter(0.25), Canadian Quarter, Canadian Loonie, Canadian Toonie, all output 1 pulse signal

1. Clear all the settings. Do the 4.1 and 4.3 to erase previous settings.
2. Prepare 3 US Quarters, 3 Canadian Quarters, 2 Canadian Loonies, 2 Canadian Toonies
3. Turn the **sensitive switch** to **NOM**
4. Turn the **Setting Switch** to **SET** going to Programming mode, the display will show “00”
5. press **Adjust Setting Switch** 1 time, the display will show “01”, drop the all above coins in sequence, when you drop the 10th coin, the display will show “F” means the setting is done
6. Turn **Setting Switch** to **START**, then your AC5 is ready to use.
7. Only when you drop one of any above coins, it will output one pulse signal,

6 Setup for MAME

6.1 See the picture below for how to connect MAME keyboard encoder.

The Coin Acceptor AC5's Open-Close Switch set to Open



6.2 Connect hacked keyboard, you can connect the signal line and GND line into Key 1 whichever MAME coin key connect to.

7 Setup for ARCADE

7.1 See the picture below for how to connect MAME keyboard encoder. When the game board is powered, use voltage meters to check which line is positive, the positive line will connect to Coin Acceptor AC5's signal line, the other will connect to Coin Acceptor AC5's GND line.

The Coin Acceptor AC5's Open-Close Switch set to Close



*Find the microswitch which have 2 lines connect to Arcade Game board
Use the meter to measure which line is positive. connection the positive line to
the Coin Acceptor AC5's signal line. the other connect to Coin Acceptor AC5's
GND line*



8 Setup for Car Wash Timer

Check the Weavefuture Car Wash Timer Board for more information.
The other Car Wash Timer Board, you have to check their manual

9 Setup for Water Dispenser Timer Board.

Check the Weavefuture Water Dispenser Timer Board for more information.
The other Car Wash Timer Board, you have to check their manual

10 Setup for Weavefuture General Timer Board.

Using Weavefuture's cable for Timer Board, just connect both the Coin Acceptor AC5 and General Timer Board.

