

MY SLOT NOTES

RESULT = Robert E Sult
For the best reSULT conSULT SULT

COIN MECH - CC-16

CC-33



Coin Mech

When you find a Coin Mech that accepts everything. Sample: A Dollar game that takes quarters, nickels ETC.

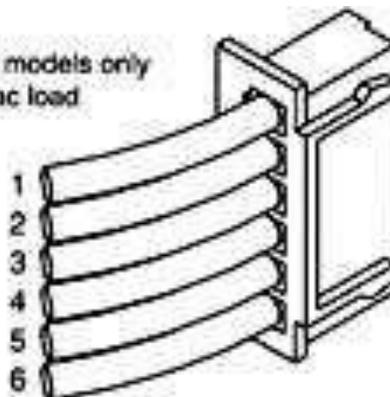
When you test the coin Mech you will notice that the Coil is always energized, keeping the rake pulled in.

SIMPLE FIX

Simply replace the Capacitor
(220 uF @ 35 v Axial)

Then, Drop a good range of coins or tokens to make sure most are accepted, fine tune as necessary to accept all good coins & Tokens but rejecting Slugs

1. Inhibit Input - 12VDC models only
All other models - Triac load
2. Sense output
3. 48 Volt
4. 24 Volt
5. 12 Volt
6. Ground



Installing the sample Coin:

Looking at the front of the Comparator, slide (without lifting) the sensor coil assembly to the right. Replace the sample Coin or chip with the desired coin and then carefully release. In most cases, the coin will automatically seat itself. When properly seated, the coin will rest parallel between the sensor coil assembly and between the ribs on the rail insert.

Wiring Instructions

the CC-16 PCB requires a 6 pin JST terminated interface. The connector diagram below denotes the typical voltage line pin outs to the PCB.

Operating Voltage:

There are various operating voltages available for the CC-16.

- 1. A multi-line unit allows for operating voltages ranging from a minimum of 15 Volts AC or DC through a maximum of 55 Volts AC.*
- 2. A separate model is used for 12 Volt DC only applications.*

POTENTIOMETER ADJUSTMENT

Each Comparator leaving the factory is adjusted to give excellent discrimination against slugs. However, some high quality slugs may need a finer adjustment; to do this follows these three easy steps:

- 1. Adjust potentiometer clockwise (CW) until high quality slug is rejected*
- 2. Drop good coins to ensure accurate acceptance.*

Repeat steps 1 and 2, if necessary. For further potentiometer adjustment procedures

AIR NULL BALANCE

Air Balance the sensor coils is one of the most important adjustments made to the coin comparator. Air Balance simply means to adjust the gap between the coins, to create an electrical field that is equal in both coin slots. It is Important to adjust both coils sensor screws to an equal depth into the sensor coil body. By following this procedure, a uniform chamber Gap will be maintained in the sensing area. Coin travel and sensing metal content of coins and tokens can be made more accurately.

Another Performance related adjustment is the selectivity potentiometer; proper Pot adjustment will improve Coin / Token acceptance vs. Slug rejection.

You would want to AIR BALANCE the sensor coils

1) After installing a New Sensor Coil or a Rebuilt Sensor Coil assembly into a comparator.

2) Typical <maintenance procedure for optimum performance

TOOLS that may be needed:

- A) Various diameters, Plastic Tokens**
- B) 1/16" hex Allen head**
- C) Coin Sticks, or Coins & Scotch tape**
- D) Universal test station, or Power Supply**
- E) Oscilloscope**



Connect scope test probe to the "Test Point" J2 pin 4

Ground the scope ground to the black wire on the CC-16 Comparator ground input (Pin 6) for common ground.

Use the plastic token chip provided with Comparator (Similar in diameter) to the actual coin or token to be used later as the sample coin and insert this chip into the sensor coils "SAMPLE HOLDER"

The plastic tokens positions the coils in their optimum location to simulate typical operating conditions

Using the 1/16" Allen head, back out the sensor coils (Counter clockwise) approximately 2 full turns. Check the mounting screw holding the sensor coils together, insure they are tight

AIR NULL BALANCE ADJUSTMENT

Start with top screw first and alternate between top and bottom screws in short intervals, with inward clockwise rotation, until achieving the smallest amplitude of the waveform possible. Typically 80 to 200 mv is considered to be a proper null.

RAIL INSERT ADJUSTMENT SETUP

Remove the plastic chip token from the "Sample Holder". Insert "Coin Sticks" into the coils, using the Allen screw driver turn the rail insert screw counter clockwise until rail insert is against the rail body.

If "Coin Sticks" are unavailable use the coin & tape method.

Insert into the "Sample Holder" remove slack, apply tape to second identical coin and lower it into the other coil gap, position the taped coin in parallel to the sample coin. Observe the waveform for lowest amplitude and tape coin in place onto the main plate.

RAIL INSERT ADJUSTMENT

Using the Allen screw driver turn screw slowly clockwise, observe the waveform it should lower in amplitude, keep adjusting clockwise until smallest amplitude can be achieved. Remove sticks or taped coin

SELECTIVITY ADJUSTMENT

Insert sample coin into "Sample Holder", Turn potentiometer fully counter-clockwise (Full accept position). Drop coins, all coins will accept

Turn potentiometer fully clockwise (Full Reject Position) Drop coins, all coins will reject.

To set for best performance for coin in residence which is the (Sample Coin), turn pot back (Counter Clockwise) in short increments, dropping coins frequently between turns, until coins begin to accept.

Drop a good range of coins or tokens to make sure all accept, fine tune as necessary to accept all good coins & Tokens but rejecting Slugs.

NOTE: TAKING COIN MECH OFF SHELF

The coin Mech, are cleaned and tested before being placed on the shelf.

Please remember, that when a coin mech is replaced in the game. It should be fine tuned at the game.

Drop a good range of coins or tokens to make sure all accept, fine tune as necessary to accept all good coins & Tokens but rejecting Slugs.

- 1) Position the taped coin in parallel to the sample coin**
- 2) Smallest amplitude can be achieved**

AFTER ADJUSTMENTS

