

HAPP CONTROLS

Electric / Manual Coin Counter Part Number 80-1050-00 & 80-1050-PL Operations Manual



(happcontrols.com)

HAPP CONTROLS Electric/Manual Coin Counter

Congratulations on your purchase of the Happ Controls Coin Counter.

Please fully read these operating instructions prior to your first use of this product.

The Happ Controls Coin Counter is a high quality, rugged piece of equipment and if the instructions outlined in this manual are followed it will provide many years of trouble free operation.

After unpacking your new Happ Controls Coin Counter please verify that all items listed are enclosed.

See Figure 1 and the packing list following.



Figure 1

Packing List:

- | | | |
|----|---|-----------------------|
| 1: | 1 Piece Coin Counter | |
| 2: | Spare Parts Contents | |
| | 1 Piece Rubber Feed Wheel | Happ PN. 80-1076-569 |
| | 2 Pieces Pinion Gear | Happ PN. 80-1082-021 |
| | 1 Piece Planetary Gear | |
| 3: | 1 Piece Crank Handle for manual operation | Happ PN. 80-1099-1016 |
| 4: | 1 Piece Coin Outlet With Ring | Happ PN. 80-1087-137 |
| 5: | 1 Piece Coin Outlet Cover | |
| 6: | 1 Piece each three size coin tubes (\$0.25, \$0.10, \$0.05) | |
| 7: | 1 Piece AC Power cord | |
| 8: | This document (Not shown) | |

See pages 3 & 4 for exploded diagram and complete parts list.

If all items are not included please contact customer service at 1-888-BUY-HAPP(289-4277) or 847-593-6130 and ask for Customer Service. Please have your invoice number and customer number ready.

REPLACEMENT PARTS FOR HAPP CONTROLS COIN COUNTER

Ref. #	Part Number	Description	Ref. #	Part Number	Description
-	80-1066-00	Blue Coin Tube \$.05	147	80-0050-147	Plug Adapter
-	80-1064-00	Gray Coin Tube \$.01	148	80-1039-00	Toggle Switch
-	80-1065-00	Green Coin Tube & \$.10	149	80-1038-149	Power Cord
-	80-1055-00	Orange Coin Tube \$.25	161	80-0052-161	Screw
194	80-1209-00	Orange Coin Tube for Golden Dollar	175	80-1097-175	Condenser
004	80-1053-004	Cover	176	80-1092-176	Motor
005	80-1101-00	Plate Tooth	505	80-1100-505	Plate
006	80-1056-00	Handle	509	80-1106-509	Plate
010	80-1069-010	Hinge	519	80-1085-519	Feed Shaft
013	80-1059-013	Screw for Handle & Foot	520	80-1084-520	Reducer Gear
014	80-0057-014	Rubber Foot	522	80-1080-522	Gear
021	80-1082-021	Pinion Gear	532	80-1054-532	Drive Belt
028	80-0046-028	Cone	541	80-0051-541	Mounting Plate
029	80-1083-029	Rotation Bushing	543	80-0052-543	Guide Arm
031	80-1070-031	Bracket	547	80-0053-547	Protective Cover for Gears
033	80-1089-033	Roll pin	548	80-0053-548	Spring
039	80-1139-039	Shaft Pin	550	80-1090-550	Plate
045	80-1056-045	Guide Bracket Slide Arm	552	80-1137-00	Spring
046	80-1037-046	Knob	555	80-1078-555	Nut
054	80-1063-054	Bushing	563	80-1073-563	Shaft
082	80-1089-082	Upper Star Wheel	564	80-1074-564	Bushing
084	80-1102-084	Gear for Star Wheel	565	80-1138-565	Pin
088	80-1096-088	Star Wheel	567	80-1075-567	Large Washer
090	80-0065-090	Lever	568	80-1077-568	Rubber Wheel Washer
091	80-1098-091	Spacer Pivot for Lever	569	80-1076-569	Rubber Feed Wheel
092	80-0065-092	Bushing	572	80-1081-572	Bushing
093	80-0065-093	Pin	575	80-0052-575	Spring
094	80-0047-094	Spring	587	80-1056-587	Meter Cover
096	80-1058-096	Meter Old Style	625	80-0054-625	Housing Cover
113	80-1061-113	Count Stop Arm	628	80-0055-628	Shaft
116	80-0049-116	Adjustment Spring	667	80-0056-667	Adjusting Lock Nut
117	80-1061-117	Spring for Count Stop A	682	80-1051-682	Adjusting Screw
120	80-0065-120	Nut	1003	80-1069-00	Cover
123	80-0065-123	Screw	1006	80-1099-1006	Crank Handle
126	80-1053-126	Housing	1016	80-1095-1016	Shaft for Star Wheel
127	80-0059-127	Coin Guide	1017	80-1086-1017	Arm Entering for Star Wheel
129	80-0048-129	Knob	1018	80-1057-1018	Meter
132	80-1087-132	Screw	1028	80-1083-1028	Lever
137	80-1087-137	Coin Outlet w/ Ring	1035	80-1071-00	Gear Box
139	80-1087-139	Plastic Ring	2019	80-1086-2019	Gear
			2025	80-1053-2025	Complete Adjustment Assy
			2003	80-1053-2003	Cover With Hinge

GENERAL INFORMATION:

The Happ Controls Electric / Manual Coin counter is a quality rugged piece of equipment and will provide many years of reliable operation. The instructions in this manual should be followed to assure continued peak performance. This product is designed to operate at 120VAC 60Hz.

Features:

- Capable of counting a wide range of coin sizes.
- Heavy duty metal coin tray and base (Model 80-1050-00)
- Durable plastic coin tray and base (Model 80-105-PL)
- Programmable stops at 20,25,40,50,100,200 & infinity (Continuous).
- 5 Digit resettable counter.
- Reversible motor assists in clearing jams.
- Average speed counts between 1,200 - 1,500 coins per minute.

Controls:

Please refer to Figures 2 & 3 for the following.

- | | |
|-------------------------------|--|
| A: Diameter Set | - Sets diameter of coins to be counted |
| B: Thickness Adjust | - Adjusts for thickness of coins to be counted. |
| C: Feed Wheel Adjust | - Sets height of Feed Wheel from surface of Exit Ramp. |
| D: Feed Wheel Adjust Lock Nut | - Locks Feed Wheel Adjustment. |
| Five Digit Resettable Counter | - Total number of coins counted. May be reset to zero
By depressing button on left side of counter. |
| Feed Wheel | - Wheel that ejects coins out of counter. |
| Mode Select Switch | - Modes are ON (RUN) in left position, OFF is in center
position, REV (Reverse, used to Clear jams) in right
position. This is a momentary action switch to the
right. The switch will return to the center position
when released from the right most position. |

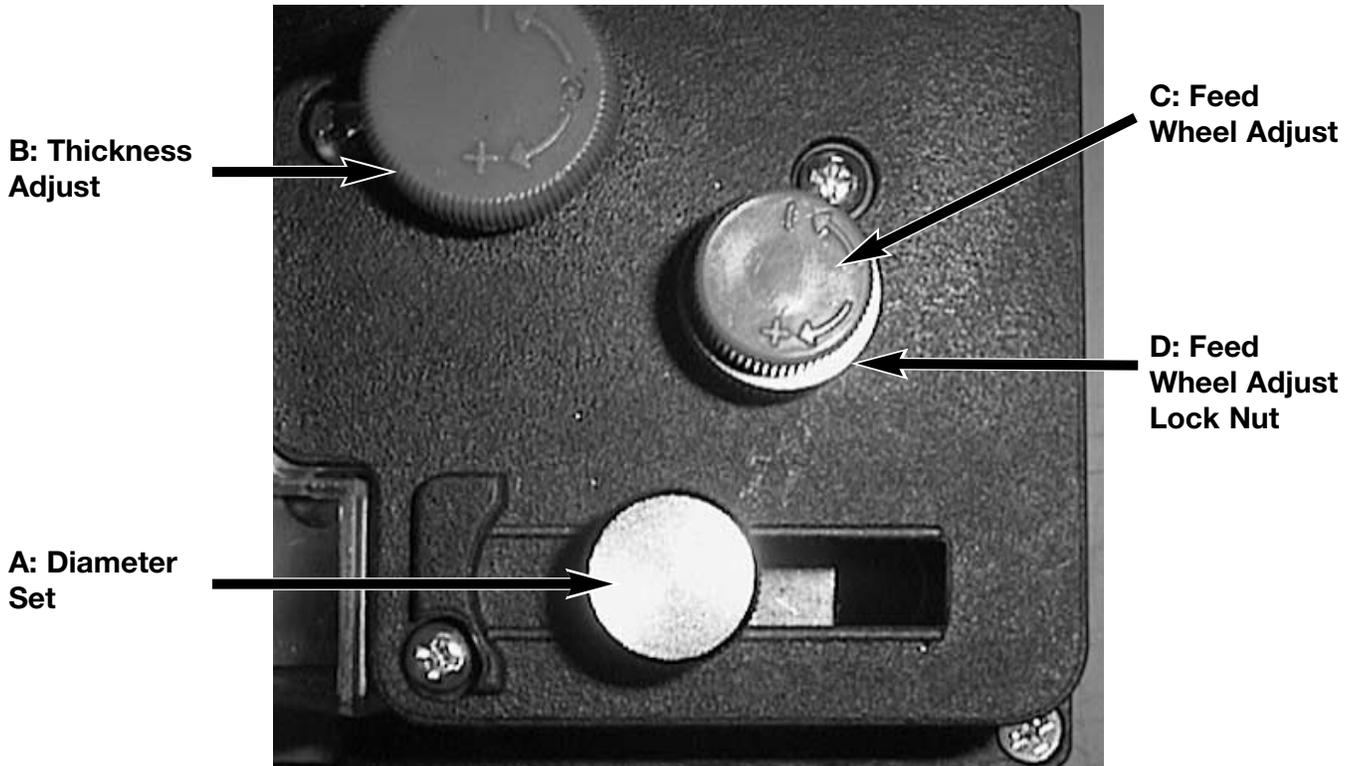


Figure 2

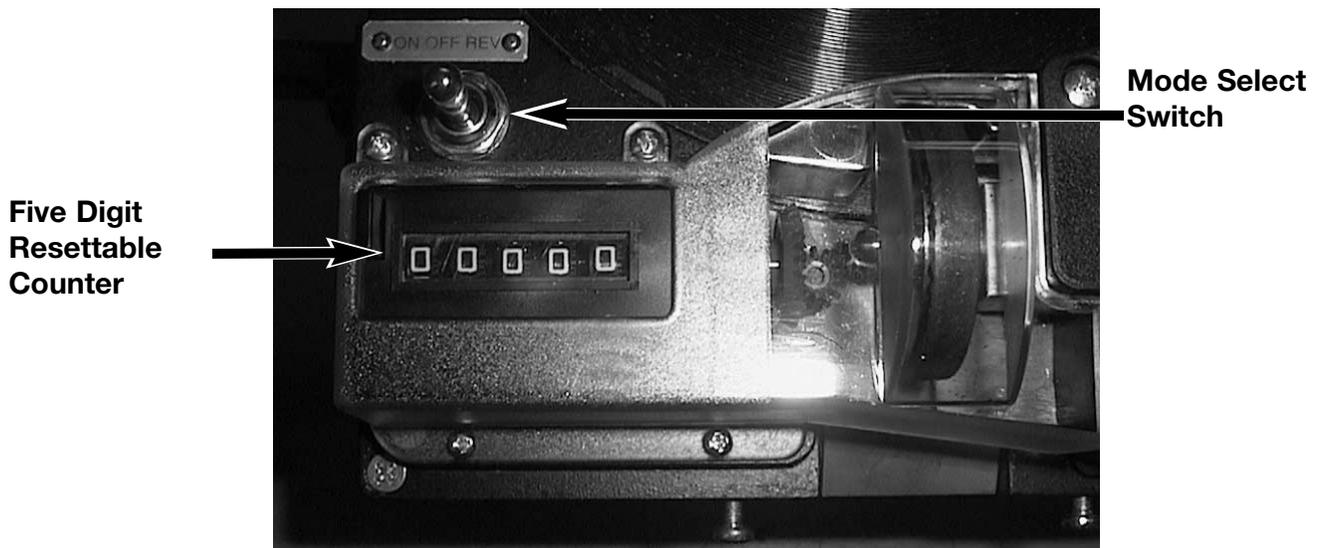


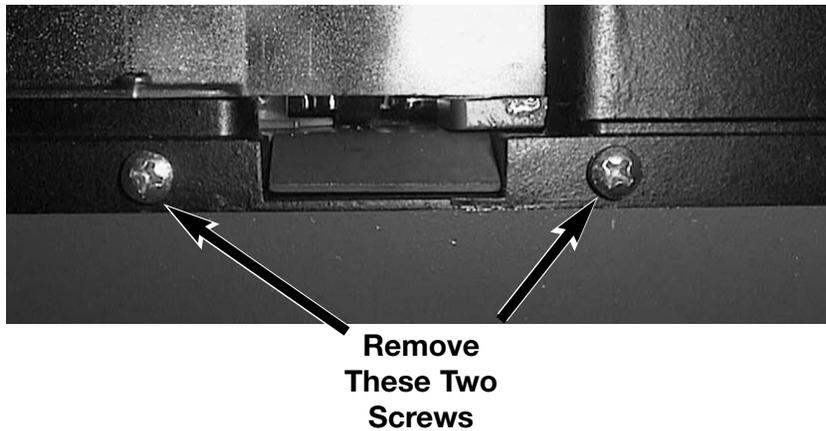
Figure 3

Setup:

Please note that this is a coin counter only, not a coin sorter/counter. If coins of different sizes are put into the counter at the same time you may have different denomination coins counted as the same coin (Smaller coins than counter is set for) or the machine may jam frequently (Larger coins than the counter is set for).

Attach the coin outlet with ring to the counter. This is accomplished by removing the two screws located on the front surface just below the coin exit ramp. See Figure 4.

Figure 4



After removing the screws position the Coin outlet w/ring and secure with the two screws removed above. See Figure 5.

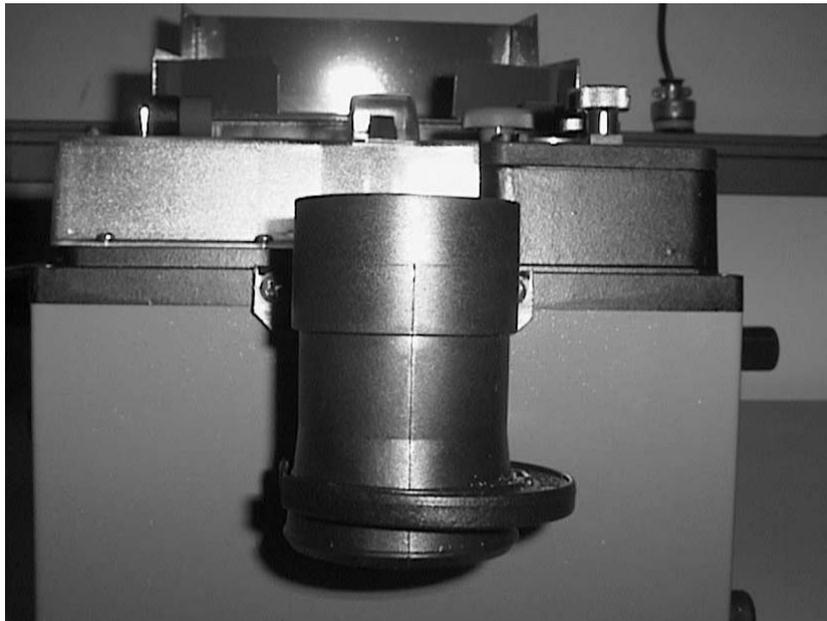


Figure 5

HAPP CONTROLS Electric/Manual Coin Counter

Next insert one coin of the type to be counted into the Diameter Set area. This is accomplished by loosening the Diameter Set knob (Turn counter clockwise), insert the coin type to be counted between the Diameter set knob and the Coin stop (Small raised area to the left of the Diameter Set knob with radius) and then allowing the Diameter Set knob to return to the left, it is spring loaded. Then simply re-tighten the Diameter Set knob by turning it clockwise. See Figure 6.



Figure 6

Next adjust for the thickness of the coin. To do this place one coin of the type to be counted in the Counter table area. There is an area of the coin hopper area that is shiny chrome. Slide the one coin you placed in the counter table area between the platter and the lower edge of this chrome area just before the point where the coin would be grabbed by the Feed Wheel. See figure 7. If the coin will not go under the chrome part of the wall surface then turn Thickness Adjust knob counter clockwise until the coin will slide under the Chrome section.



Figure 7

When making the Thickness adjustment, setting the gap too large will allow for more than one coin to get between the chrome piece and the platter on the coin counter and will cause a jam condition.

On the other hand if this adjustment is set too narrow then coins will not be able to pass under the chrome piece and thereby be ejected from the coin counter by the feed wheel. Optimum adjustment is where one coin can slide between the chrome piece and the platter but not enough that you can get two coins under the chrome piece either stacked or offset from each other (Shingled).

Next the Feed Wheel will need to be adjusted. Refer to Figure 8.



Figure 8

(Plastic Cover removed for clarity)

Plug the power cord into the receptacle on the back of the Coin Counter (Make sure mode select switch is in center OFF position). Set the Count Lever to Infinity (Sideways 8) by pressing the Count set lever down and then sliding it all the way towards the front of the coin counter see Figures 9 & 10.

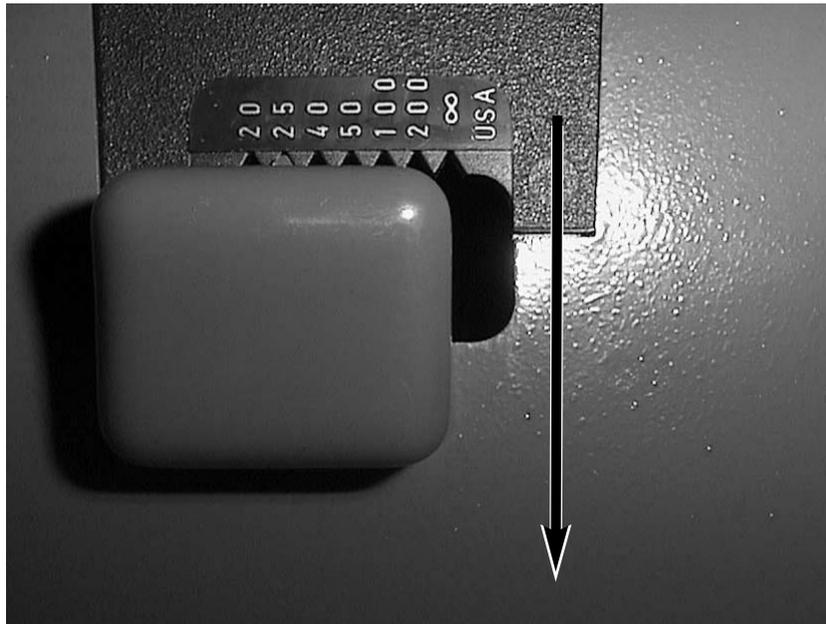
Loosen the Feed Wheel Adjust Lock Nut by turning it counter clockwise. Then turn the Feed Wheel Adjust knob all the way clockwise until the feed wheel is raised all the way up. Move the mode select to the RUN position and drop the coin into the platter area. Turn the Feed Wheel Adjust Knob counter clockwise until the coin is ejected from the Coin Counter. Do this a few times to make sure the coin is ejected consistently. Turn the Feed Wheel Adjust Lock nut clockwise until it is tight up against the Feed Wheel Adjust Knob. This locks the Feed Wheel Adjust knob into the set location.

If the Feed wheel height adjustment is not performed correctly the life of the Feed Wheel may be decreased (set down too far) or the coins may not be ejected properly (set too high).

This completes the setup for the type coin to be counted.

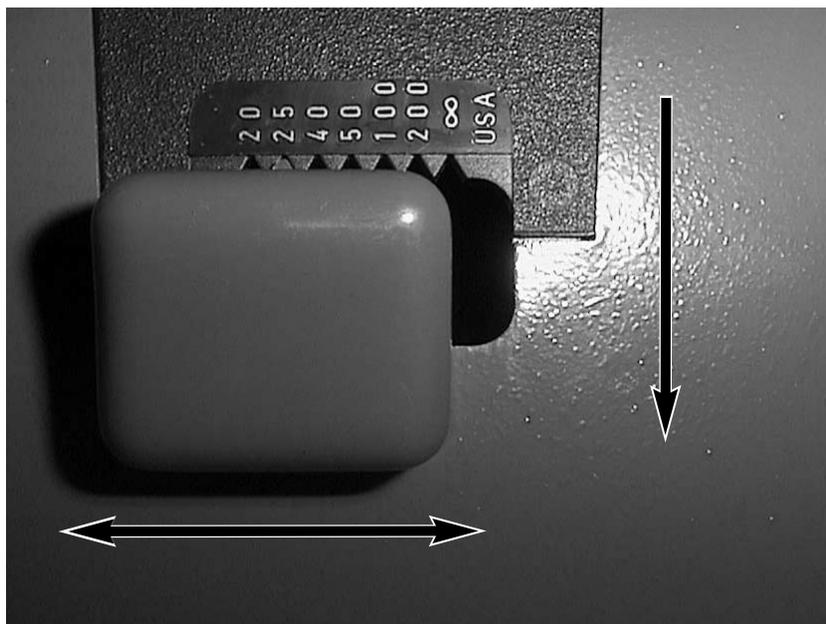
Use:

To use the coin counter Plug the power cord into the receptacle on the rear of the coin counter. Set the number of coins to be counted by means of the Count Lever. Push the lever down and then slide to desired count for each cycle of the coin counter. At the end of each count this lever needs to be pressed down again to enable the counter for the next cycle. See Figure 9 &10.



**To Start
Press Down**

Figure 9



**Push down
and slide to
set count**

Figure 10

NOTE: The Crank Handle must be removed to use the Coin Counter in electric mode. This is a safety feature to avoid injury from the Crank Handle being spun by the motor.

After setting the number of coins place the coins in the hopper (cover) and start the Coin Counter by moving the mode switch from the OFF to the RUN position. The Coin Counter should begin to run and eject the coins. If a coin jam does occur most times it may be cleared by moving the mode switch from the RUN position momentarily over to the REV position. This process may need to be repeated a couple of times to completely clear the jam. Once the jam is cleared return the mode switch to the RUN position and the Coin Counter will resume where it left off. To just do a bulk count move the Count Lever over to the infinity (sideways 8) position and once started the Coin Counter will run continuously.

To operate the Coin Counter manually disconnect the power cord. Install the Crank Handle. To install the Crank Handle. Slide the Crank Handle over the Crank Handle Shaft. Depress the chrome button in the center of the shaft part of the Crank Handle (See Figure 11 & 12). Slide the Crank Handle onto the Crank Handle shaft until it bottoms and then release the chrome button. To operate follow the same procedure as for electric operation.

To remove the Crank handle from the coin counter, reverse the steps outlined above for installation.



Crank Handle shaft located on right side of Coin Counter

Figure 11



Hand Crank Handle Installed

Figure 12

