

Slugbuster® II

Technical Information

Testing
Sample Coins

Programming
Adjusting Selectivity

Testing

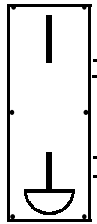
WARNING!!

**Failure to test your Slugbuster coin acceptor according to these instructions may result in conditions which can cause property damage, bodily injury and/or death.
Do not tamper with or turn any screws sealed in blue sealer; doing so will void your warranty.**

Testing Selectivity Adjustments, Crediting and DIP Switch Programming

1. Turn the power off
2. Be sure the sample holders contain a sample of each coin you want to accept (see 'Changing Sample Coins' on page 2)
3. Hook up a 24-volt AC power supply and coin counter or 24-volt AC pilot light as shown below
4. Turn the power on
5. Insert coins into the top coin slot in the faceplate, include batches made up of all combinations of actual coins your Slugbuster accepts, and some 'slugs' common to your area. You will need to repeat this several times, watching for the following:
 - As each good coin is inserted, the indicator light will flash once, or you coin counter will count up one;
 - In dual coin acceptors, for each good coin or token, the number of credits will be the same as the number programmed into the Pulse Multiplier DIP Switch (see 'Programming' on page 3). The flashes will be very rapid and you may not be able to count them accurately. For an accurate count, we recommend using a coin counter.
 - All good coins and tokens should be accepted and credited.
 - All 'slugs' should be rejected. Be sure to remove the rejected slugs from the return cup or they may jam your Slugbuster.
6. If the above events occur properly, the unit is ready for final installation.
If there are problems with good coins being rejected, slugs being accepted or coins being credited incorrectly, adjust the selectivity (see page 2). If there are problems with a large-value coins giving the wrong number of credit pulses, check the Pulse Multiplier Programming (see page 3).

Single or Dual
Coin/Token



P-35 & P-55 Series

Test Hook up

24-volt AC Stepdown Transformer

- Black Wire:** Common/ground from 24-volt AC supply to Slugbuster
- Yellow Wire:** "Hot" 24-volt AC supply to Slugbuster
- Purple Wire:** 24-volt AC out-going pulse for optional coin counter
- Blue Wire:** 8-volt DC out-going pulse for timer coin switch; provides direct hook-up for most timers (please call for compatibility details)

Do not allow bright light to shine into the coin path during testing or regular operation, your Slugbuster will not function properly. Cover the unit with cardboard or close the door while testing.

Sample Coins and Tokens

Read this section carefully before purchasing tokens or attempting to change the sample coins.

For proper operation, there must be a sample of the coins you want the unit to accept in the sample holders. Dual coin acceptors must have a different sample coin in each holder (see page 2 diagram). Your Slugbuster II comes standard from the factory with a US quarter in the sample holder marked 'Quarter', and in dual coin models, a .984" diameter token in the holder marked 'Token'.

All changes to the type of sample coins accepted must be approved by Parker Engineering and Manufacturing. For example, the Susan B. Anthony dollar coin is not currently compatible with P-55 Slugbuster models. Please call us for details at 800-752-0762.

You may use a dual coin model with a single coin, however, you must leave the larger coin sample in place. Simply turn the 'Token' trim pot fully clockwise to reject these coins. See 'Adjusting Selectivity' on page 2 for more information.

A variety of tokens can be used successfully in the Slugbuster II. Some combinations that have acceptable results are 75/25, 80/20, 85/15 and 90/10 copper/zinc alloy, with a diameter of .900" to 1.125".

- **Do not use a US quarter dated 1965 or 1974 as a sample.** The alloys used for these years do not make reliable samples.
- *The 70/30 copper/zinc alloy token is not recommended* since it is widely used in video games.
- *Do not use aluminum tokens*, as scrap aluminum is widely available and cannot be tuned out with selectivity adjustments.
- *Copper/nickel alloy tokens are not suitable.* Given their production variations, they cannot be reliably distinguished from nickels.

Before investing in tokens for your Slugbuster II, check your local area to be sure there are no other operators using similar size tokens of the same alloy.

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Please contact us with any questions

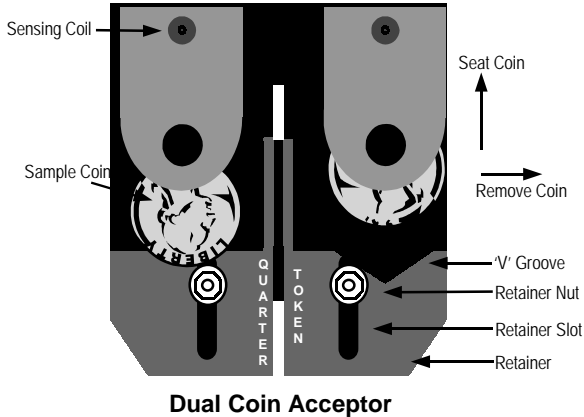
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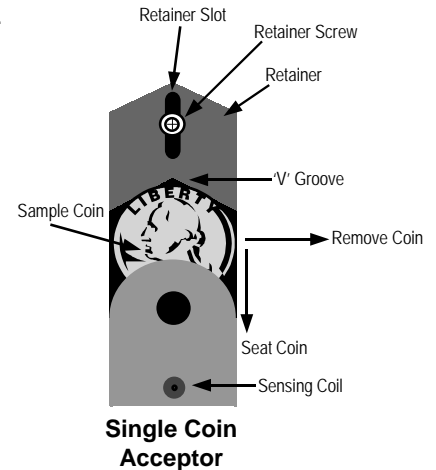
Changing Sample Coins and Tokens

Changing Samples

1. Loosen the retainer-screw nuts only enough to allow the coin retainer to slide (see diagram below)
2. From the side, remove the sample currently in the sample holder
3. Insert a new sample coin or token into the sample holder. In dual coin models, the smallest-value coin sample must be placed in the retainer marked 'Quarter'; the largest-value coin sample must be placed in the retainer marked 'Token'.
4. Slide the retainers toward the sensing coils to firmly seat the sample between them. The sample must be centered under the sensing coil, and seated in the 'V' groove of the retainer to work properly.
5. Secure the retainers in place by tightening the retainer screws or nuts – do not over tighten.



**Do not tamper with,
or turn any screws
covered with
blue sealer;
doing so will
void your warranty.**



Adjusting Selectivity

Adjust Selectivity ONLY IF YOUR UNIT MALFUNCTIONS as described in 'Testing' on page 1.

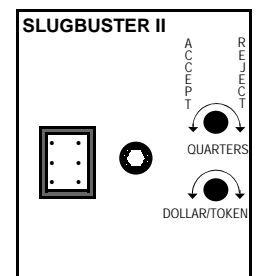
Your Slugbuster has been pre-set at the factory with the included samples to accept virtually all US quarters. Dual coin models are also pre-set to accept 85/15 copper/zinc alloy, .984 diameter tokens, like the one included in the sample holder marked 'Token'.

If you are using other samples, first insert them as described above, 'Changing Sample Coins and Tokens'. Then check the unit's performance as described in 'Testing' on page 1. Only after doing this can you determine if you need to adjust the selectivity.

The coin acceptor must be powered up to make these adjustments. Use caution when adjusting the Trim Pot (Potentiometer). The full range of movement is 240° (less than one turn); if the trim pot is turned too far either way, it will break and void your warranty. The trim pot is extremely sensitive and very little movement will cause a change in performance. Turn the setting counter-clockwise (accept) to accept more borderline coins or tokens; turn it clockwise (reject) to accept fewer coins. The selectivity adjustment for the small-value coin is separate from the large-value coin.

For best results, use the following procedure:

1. Locate the sample holders on your Slugbuster. There must be a different sample coin or token in each holder – single coin acceptors use one quarter or token in the sample holder; dual coin acceptors use a quarter in the holder marked 'Quarter' and a token in the holder marked 'Token'. Check to be sure the sample is centered in the sensing coil, is properly seated and secure.
2. On the opposite side of the coin acceptor, loosen the cover nut on the electronic box and spin the cover to expose the trim pots and Pulse Multiplier DIP switch, if present.
3. Locate the trim pot(s) in the round hole(s) exposed. The trim pot marked 'Dollar/Token' controls the large-value coin selectivity; the trim pot marked 'Quarter' controls the small-value coin selectivity.
4. With a plastic stylus, turn the trim pot fully clockwise (reject) to make the unit reject all coins & tokens.
5. Skip this step for single coin acceptors. On dual coin acceptors, begin by dropping your large-value coins or tokens into the acceptor, slowly turning the 'Dollar/Token' trim pot counter-clockwise (accept) until it begins to accept coins. Turn the trim pot an additional 2-5 degrees counter-clockwise and stop. This completes the large-value coin adjustment.
6. Begin dropping quarters into the acceptor, slowly turning the 'Quarter' trim pot counter-clockwise (accept) until it begins to accept coins. Turn the trim pot an additional 2-5 degrees counter-clockwise and stop. This completes the small-value coin adjustment.



After completing the selectivity adjustments, repeat 'Testing' procedure on page 1. When you are satisfied that the unit is adjusted properly, replace the cover over the trim pots and DIP Switch to protect the electronics from dirt and water damage. Installing the unit without the cover in place may void your warranty.

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Programming

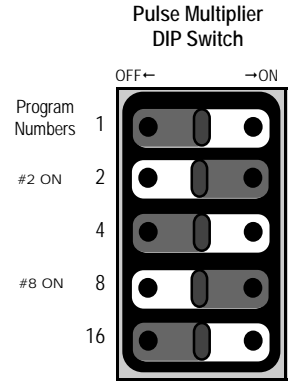
A five-position, Pulse Multiplier DIP Switch is provided for programming the value of the large-value coin sample, relative to the small-value coin sample. This allows the larger coin to be valued at up to 31-times the smaller coin.

Your Slugbuster has been programmed with a multiplier number of 4, so the Quarter is worth \$.25 and the token is worth \$1.00. If you wish to change the value of either or both coins, follow the instructions below.

To calculate the correct Multiplier number, first determine the value of the largest coin or token. Then, divide that value by the value of the smallest coin. Program the resulting multiplier number by turning 'ON' the switch positions whose program number add up to it. It must be possible to divide the larger value evenly by the smaller value in order to program the unit correctly.

Token Value	Multiplier Number	Program Numbers				
		1	2	4	8	16
\$0.25	1	ON	OFF	OFF	OFF	OFF
\$0.50	2	OFF	ON	OFF	OFF	OFF
\$0.75	3	ON	ON	OFF	OFF	OFF
\$1.00	4	OFF	OFF	ON	OFF	OFF
\$1.25	5	ON	OFF	ON	OFF	OFF
\$1.50	6	OFF	ON	ON	OFF	OFF
\$1.75	7	ON	ON	ON	OFF	OFF
\$2.00	8	OFF	OFF	OFF	ON	OFF
\$2.25	9	ON	OFF	OFF	ON	OFF
\$2.50	10	OFF	ON	OFF	ON	OFF
\$2.75	11	ON	ON	OFF	ON	OFF
\$3.00	12	OFF	OFF	ON	ON	OFF
\$3.25	13	ON	OFF	ON	ON	OFF
\$3.50	14	OFF	ON	ON	ON	OFF
\$3.75	15	ON	ON	ON	ON	OFF

Token Value	Multiplier Number	Program Numbers				
		1	2	4	8	16
\$4.00	16	OFF	OFF	OFF	OFF	ON
\$4.25	17	ON	OFF	OFF	OFF	ON
\$4.50	18	OFF	ON	OFF	OFF	ON
\$4.75	19	ON	ON	OFF	OFF	ON
\$5.00	20	OFF	OFF	ON	OFF	ON
\$5.25	21	ON	OFF	ON	OFF	ON
\$5.50	22	OFF	ON	ON	OFF	ON
\$5.75	23	ON	ON	ON	OFF	ON
\$6.00	24	OFF	OFF	OFF	ON	ON
\$6.25	25	ON	OFF	OFF	ON	ON
\$6.50	26	OFF	ON	OFF	ON	ON
\$6.75	27	ON	ON	OFF	ON	ON
\$7.00	28	OFF	OFF	ON	ON	ON
\$7.25	29	ON	OFF	ON	ON	ON
\$7.50	30	OFF	ON	ON	ON	ON
\$7.75	31	ON	ON	ON	ON	ON



This DIP switch is programmed to multiplier number 10, with switches #2 and #8 to the ON position.

To Change the Multiplier Programming:

1. On the coin acceptor make sure there is a different coin in each sample holder.
2. On the opposite side of the coin acceptor, loosen the cover nut on the electronic box and spin the cover, exposing the Pulse Multiplier DIP Switch and selectivity adjustment trim pots.
3. To the left of the Pulse Multiplier are the program numbers. The small numbers on the body of the switch case are the switch-unit position numbers, ignore them.
4. Turn all the switches off.
5. Look up the value you want to set for your token in the table above, in the Token Value column. The corresponding multiplier number is the number you must program into the switch. Turn on the switches corresponding to the Program Numbers listed in the table. Notice that adding the program numbers in the ON position, their sum is the same as the multiplier value.

Cleaning Your Slugbuster

Clean your Slugbuster with a soft cloth and warm water. DO NOT use oil or other corrosive liquids.

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