

# Notes and adjustments for OBA-4 \$1 \$5 \$10 \$20 system

Using update 270651-03 version 8.10 for new \$5,10,20 bills.

The following assumes a working system with a clean and lubricated acceptor. Make sure all grounds are connected including on the one on the OBA acceptor. Below you will find some new information given to us by Rowe and also the procedures I use to make the adjustments on the OBA-4 system. The acceptor must have a wired ground.

Adjust V3 to the point where V3 LED toggles ON and OFF, then turn the control clockwise 1 clock division. If Status LED ON/OFF point is 2PM, turn control to 3PM.

Rowe also gave us new V2 and Mag setpoints. Using 1999 \$5 bills V2 = 128 (127-129) and Mag = 28 (27-29).

Before attempting to make final adjustment of V2 and Mag, we want to select one standard 1990 \$5 bill for making adjustments. Get a mixture of ten 1990 average \$5 bills. On the pulser unit, turn on the ADJUST MODE switch. Adjust V2 and Mag with one of the bills close to the values of 128 for V2 and Mag at 28. Without touching any adjustments, read each bill and write down the values of V2 and Mag. Now scan the list and look for the bill values that is in the middle range of the bills scanned. The values may be higher or lower than 128 and 28 but that does not matter because you want to find the bill that falls in the middle range of the bills scanned. This bill becomes the standard setup bill for making V2 and Mag adjustments. Keep this bill in a safe place, make in the manual. Keep it flat ! Use this bill to set the target adjustment values of V2 = 128 and Mag = 28. In the real world, you may not be able to hit 128 and 28 right on the nose, but try to get them set close to these values.

With the pulser ADJUST MODE switch on, insert the test \$5 bill selected with the above procedure. V2 value will appear on the display. If the value is higher than 99, the 100's LED will be lit. If lit and value is 20, the real value is 120. Adjust V2 up or down so that you read ~ 128 after you insert the bill and read it . Push the button and to read the Mag value and adjust up or down to read ~ 28 after your insert the bill. Repeat the procedure making adjustments to V2 and Mag as needed. Insert test bill, read values, make adjustments, re-insert bill, take new reading. You may not be able to hit the 128 or 28 right on the nose, but get them near 128 and 28. Turn the ADJUST MODE switch off and test the acceptance of the types you have turned on, \$1, \$5, \$10, and/or \$20.

Keep repair costs down and get every bill put into the acceptor by cleaning and Magic Wanding the OBA acceptor every \$30,000 or at least once a year ( which ever comes first ). If you have problems always get and record the error number/s shown on the pulser unit's display. The error reporting system will also give you an error code with number/letter code which tells you why a bill is rejected so watch the display.

INTERFACES: Some interface interfaces need a diode (1N4004) to get reliable credit count to the unit. The pulser unit has a choice of short or long output pulses so try both of them.

