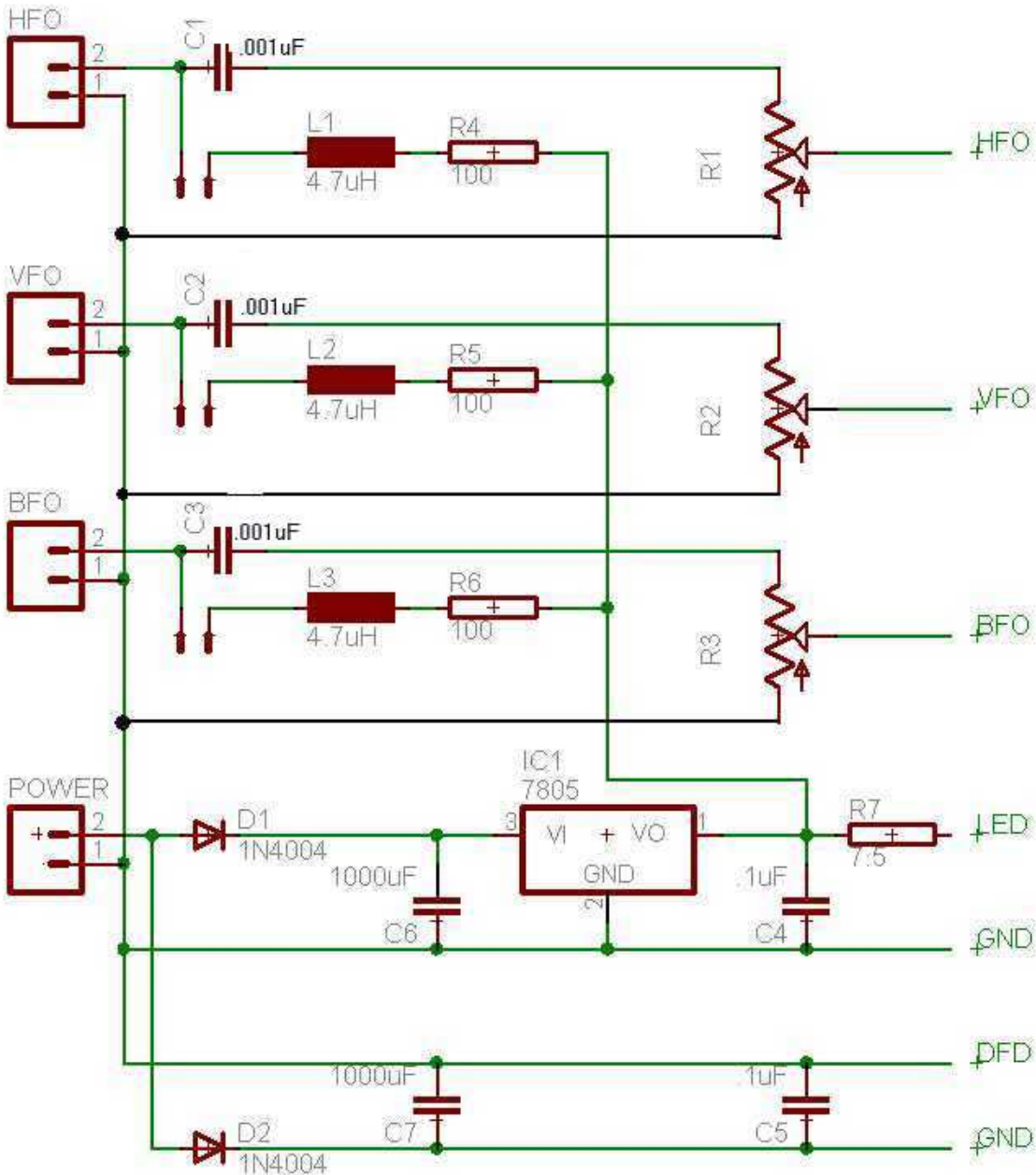


# Enclosure assembly instructions



**R7 may not be needed (replace with short circuit). See separate backlite instructions.**

Schematic of power module

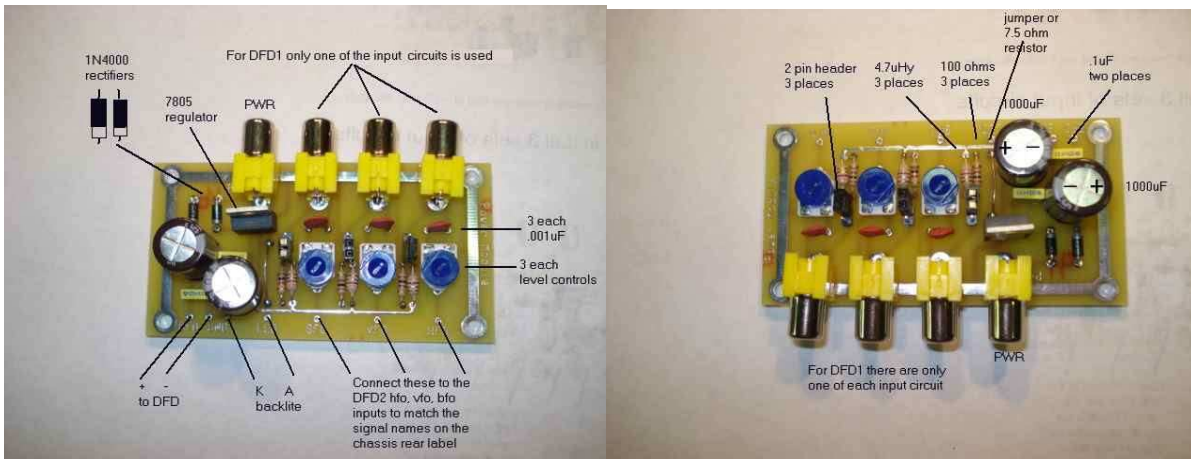
**IMPORTANT: POWER SOURCE SHOULD BE OFF BEFORE CONNECTING TO DIGITAL DISPLAY OR IT COULD BE SHORTED**

Begin by assembling the power module board as shown below.

The DFD1 and DFD2 versions are identical except for the number of input circuits.

The cathode end (striped end) of the diodes point to the 1000uF capacitors.

Note the polarity of the 1000uF caps with the negative terminals face to face.

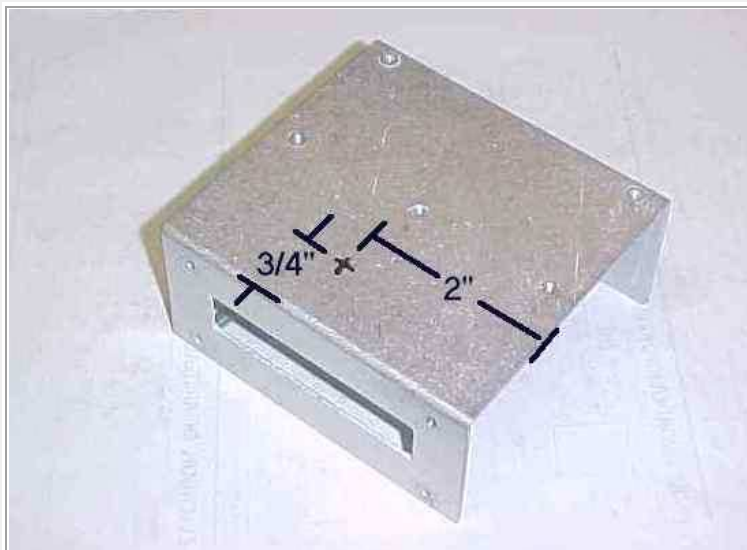


**Some backlit displays no longer need the 7.5 ohm resistor. Replace with a shorting wire.**

Attach wires (about 6" long) to the pads of the power module board to connect to the counter board after installation of both boards in the chassis.

**NOTE:** the 100 ohm resistors, 4.7uHy chokes and jumpers are not included with DFD2-520, DFD1-Swan, DFD1-Atlas or DFD1-Drake.

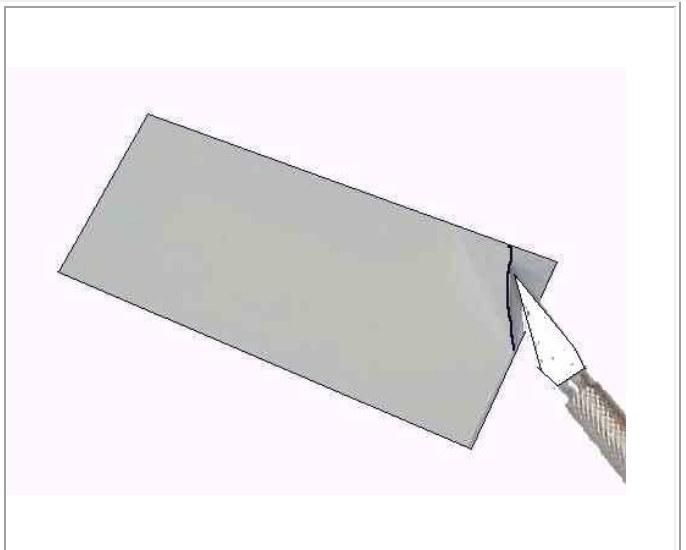
Prepare the chassis as shown below.



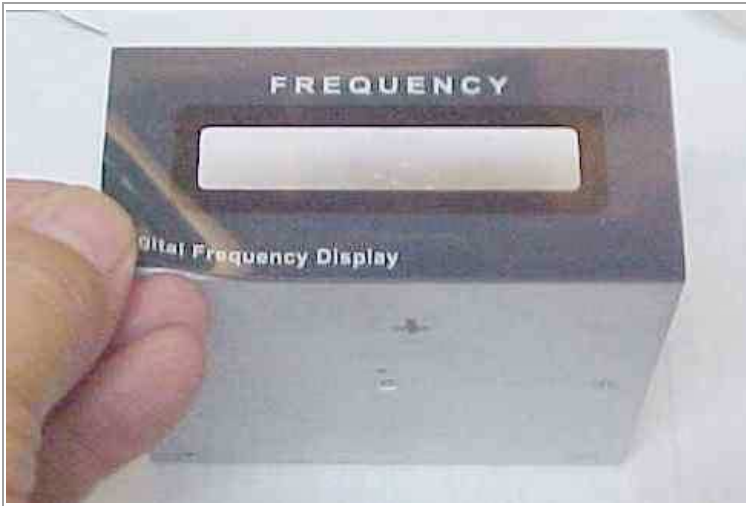
If for a DFD1 that has a one trimpot pointing down, drill a 1/4" hole 3/4" in from front 2" from side as shown above.

**HOLE IS NOT REQUIRED FOR DFD2**

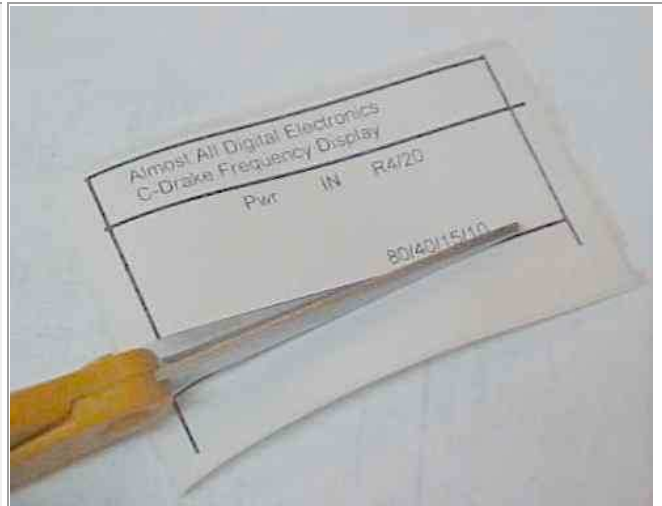
This provides access to the third trimpot of those counters.



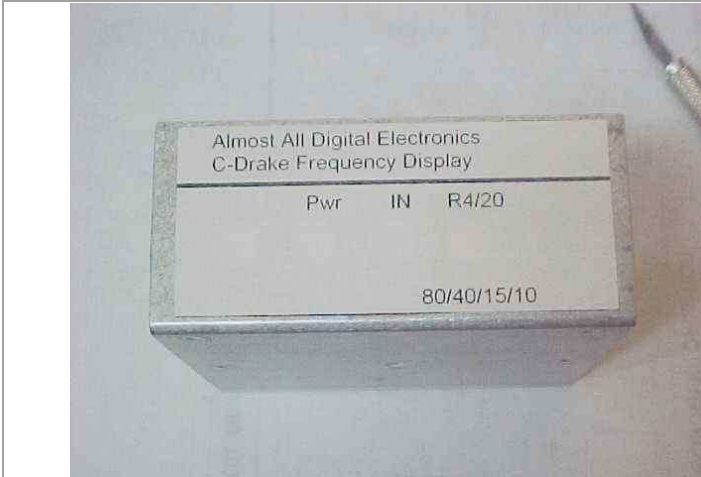
Using an Xacto knife lift on corner of the back of the panel decal and then peel off the backing sheet.



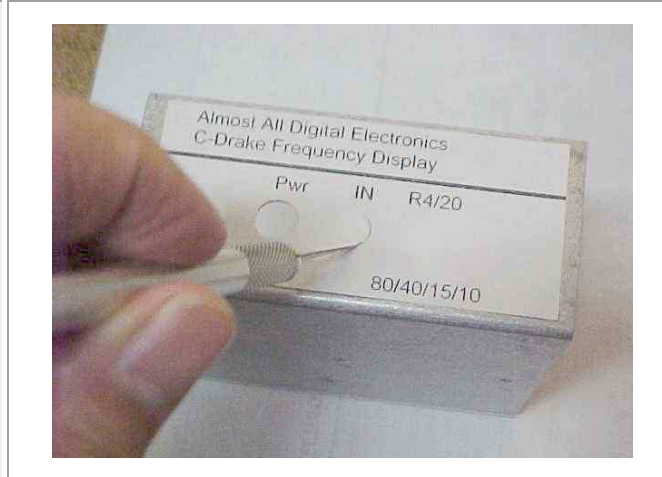
Carefully position the front panel decal and press in place. Wait until you have completed assembly to remove the protective sheet from the front of the decal.



Carefully cut out the rear panel decal. This will vary in appearance with the type counter board you have.



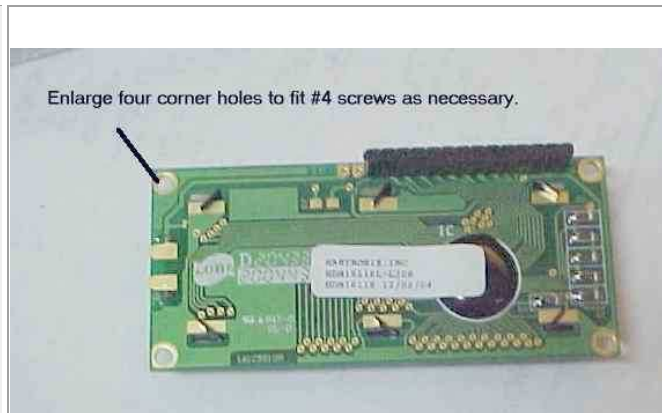
Remove its backing sheet similar to the way you did the front panel decal. Carefully position and press it in place centered on the rear of the chassis.



Using the Xacto knife, cut out the holes used for your counter using the holes in the chassis as a guide.



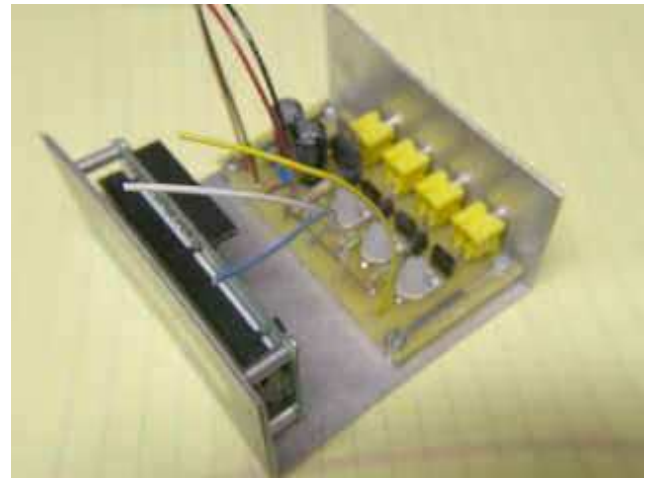
This could be anywhere from two to four holes depending on the type counter.



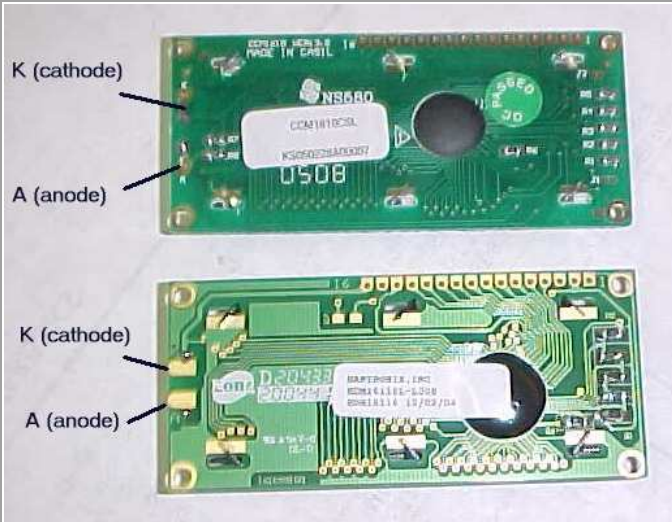
Enlarge the four corner holes to fit #4 screws as necessary. Solder the female connector on the LCD module and enlarge the four corner holes to pass a #4 screw (1/8")



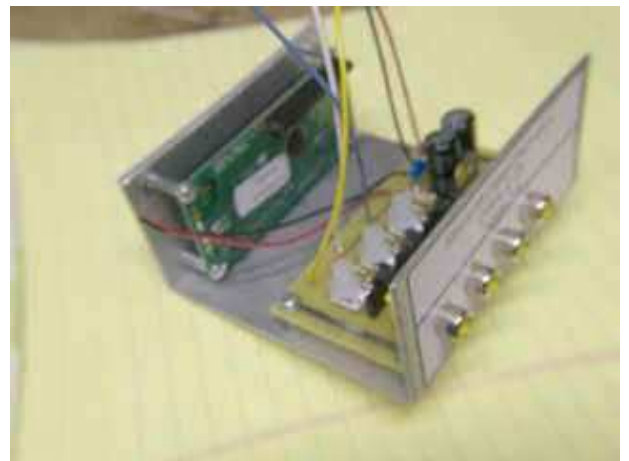
Remove the plastic scratch protective film from the front of the LCD and fasten it in the chassis using the four #4 x 1/2" screws.



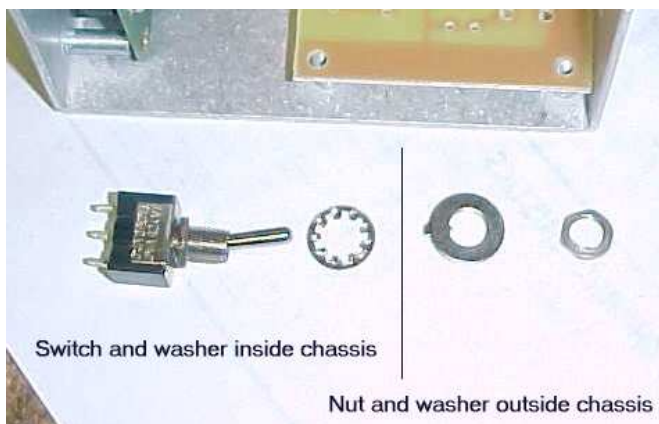
Install the prewired power module in the chassis using #4 x 1/4" screws.



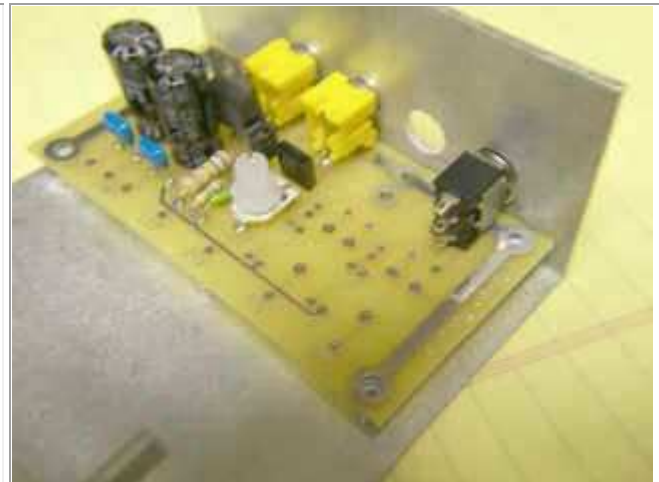
The anode, A, connection and cathode, K, connection may vary in appearance depending on the manufacturer of the LCD. They are marked A and K on most types.



Attach the LED and GND wires from the power module to the A and K terminals, respectively, of the LCD.



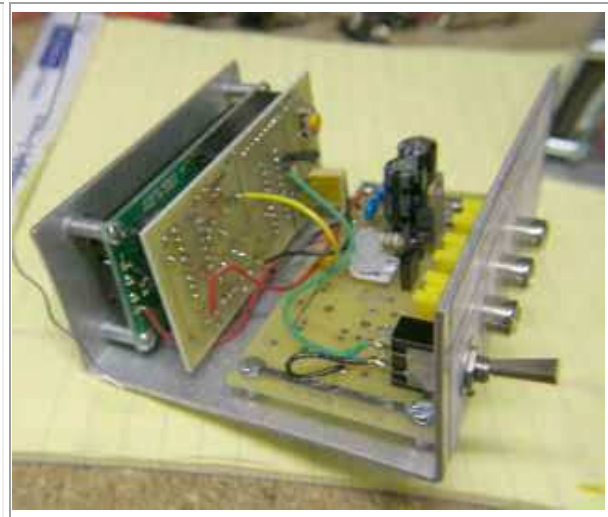
DFD1/A/B/Swan requires a switch to be installed.



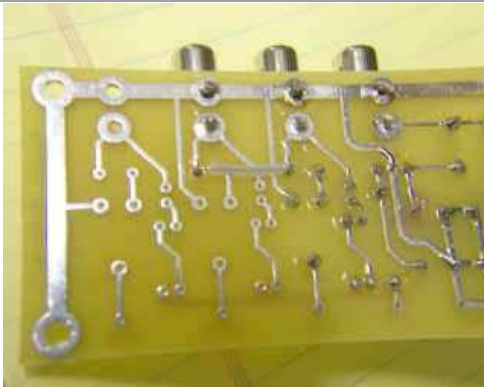
Mount the switch flush down against the Power module. This switch goes from the add/subtract jumper input of the counter to ground.



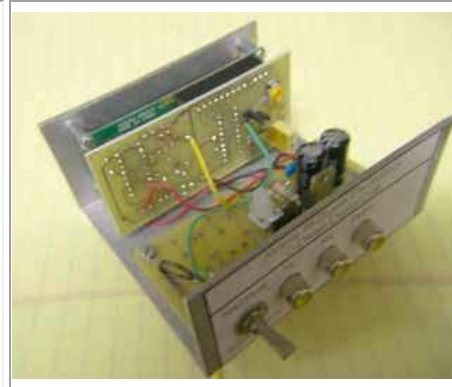
The hole will be oversized but it still works fine.



Use the middle and bottom (next to PCB) switch terminals. A ground connection can be made from the bottom terminal to an unused pad on the power module as shown above. The middle terminal goes to the add/subtract pad on the counter PCB (see counter instructions)



If a Y connection is desired to connect the counter to both a transmitter and receiver such as the DRAKE R4 / T4 solder a jumper to the center conductor of an additional RCA jack.



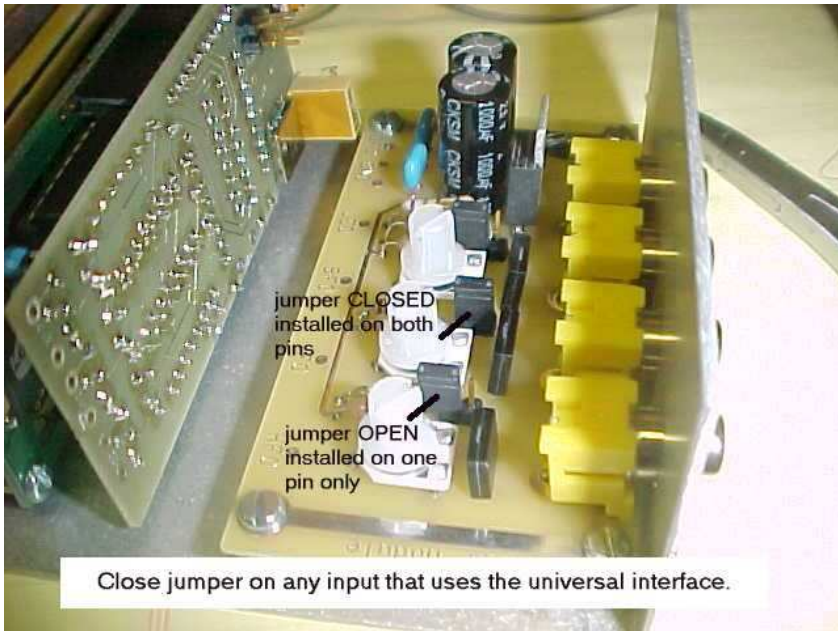
Connect the power (dfd and gnd of power board) to the battery + and - of the dfd. Connect the signal input leads from the counter board to the power module. There are three for a DFD2 but only one for a DFD1.



Slide the completed unit into it's cabinet.



Attach the four rubber feet and secure the chassis in the cabinet with a #4 x 1/4" screw



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