How to Build your own Jumbo 7 Segment Display **Basketball Counter**

Pat McMahon- V1- 1/5/2017

Design Brief - Using a Jumbo 7 Segment Display, build your own Lever Switch Activated Jumbo 7 Segment Display Basketball Counter, to run from Pat's 14M2 Picaxe PCB.

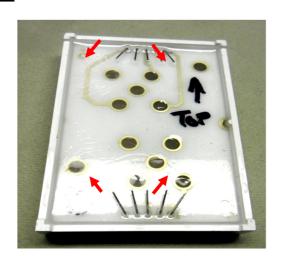
Note- As the Jumbo 7 Segment Display needs ~8Volts before it lights up, you need to use a battery snap & a 9V battery on Pat's 14M2 Picaxe PCB, not 6V.

Jumbo 7 Segment Display basketball Counter



Below are some of the Production Steps, Tick off each box as you complete a task and Document it.

Bend 7 Segment Jumbo legs over & out to separate. Tin the ends of each Leg.



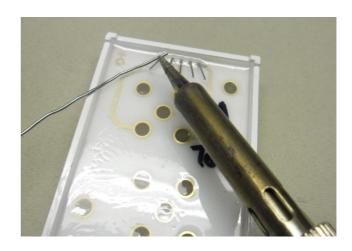


Black Purple White Brown





(When viewed from the back)

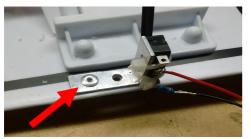


Strip, Twist, Tin and attach coloured wires as below. Populate Pat's 14M2 PCB and solder on back.





Position the microswitch under the Ring, drill one only 3.2mm hole and pop rivet it to the backboard.

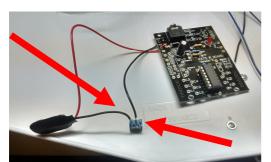








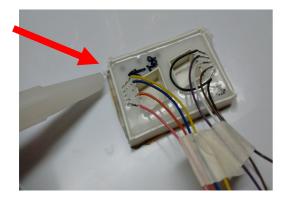
Solder cut wire to centre & outside of switch posts.



Place Masking tape on the front of the hole.



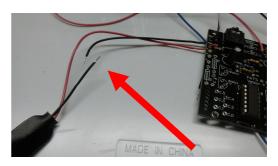
Using Silicone or a Glue Gun to fix the Display.



Drill the second 3.2 mm hole and insert the second pop rivet.

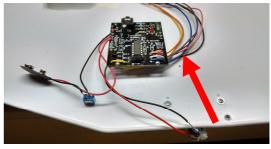


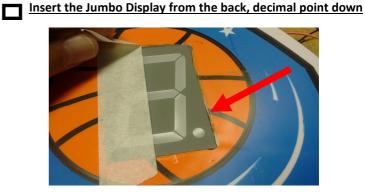
Cut the black negative battery snap wire.





Carefully File inside the marked rectangle, until the Jumbo Display fits snugly in the hole.





Use M2 x 12 screws or cable ties to fix the lever microswitch to the Aluminium Angle bracket.





Purchase a Plastic backed Basketball Backboard & Ball.



Mark with a pencil around the outside of Display.



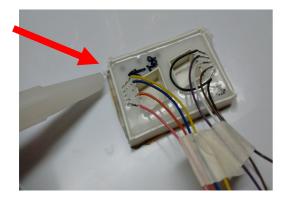
Using a Coping or Jigsaw, carefully cut inside the line.



Place Masking tape on the front of the hole.



Using Silicone or a Glue Gun, to fix the Display.



Decide where you want your Jumbo Display.



Carefully Drill inside the 4 corners with 6mm Drill.





Carefully File inside the marked rectangle, until the Jumbo Display fits snugly in the hole.



Insert the Jumbo Display from the back, decimal point down.



Use M2 x 12 screws or cable ties to fix the lever micro-switch to the Aluminium Angle bracket.

