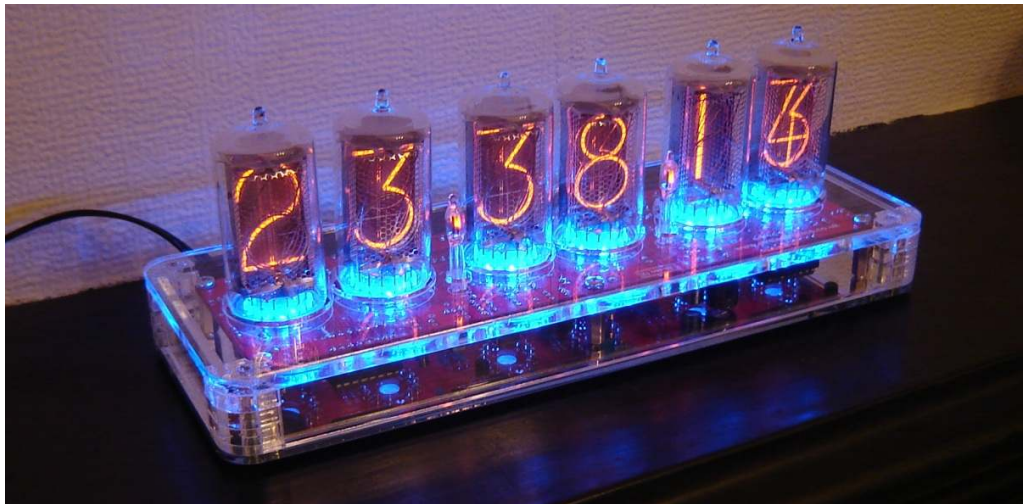


# Assembly Notes

## Plexiglass Case For Nixie Clock Type LTC



## REVISION HISTORY

Issue Number	Date	Reason for Issue
1	12 April 2012	New document








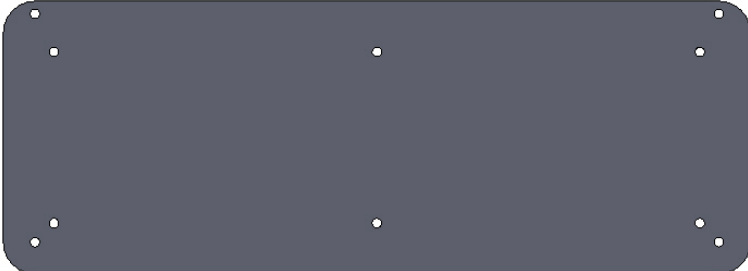
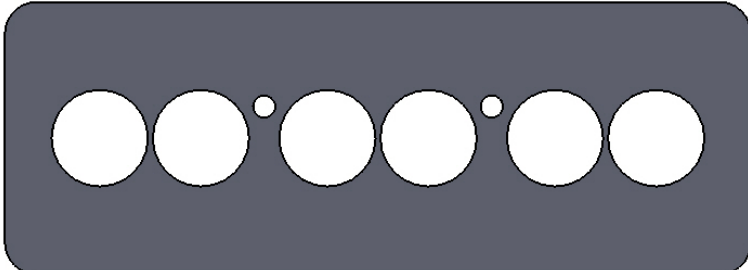


### 1. APPLICABILITY

This case is suitable for the following versions of the Large Tube Clock (LTC) Nixie clock:

LTC18 – Clock for IN-18 tubes: PCB date 20 Oct 2011

LTC1040 – Clock for ZM1040 tubes: PCB Date 28 Jan 2012

## 2. PACK CONTENTS

Component	Qty	Further info
Front connector (3mm)	2	
Front connector (5mm)	4	
Rear connector (3mm)	2	
Rear connector (5mm)	4	
Case side	2	
Case front	1	
Case back	1	
Case base (mirror finish)	1	
Case top	1	
M3 X 6mm screw	12	
M3 X 20mm screw	4	
M3 X 11mm hex threaded spacer	6	
2mm plastic washer	6	
Polyurethane rubber feet	6	

### 3. ASSEMBLY NOTES

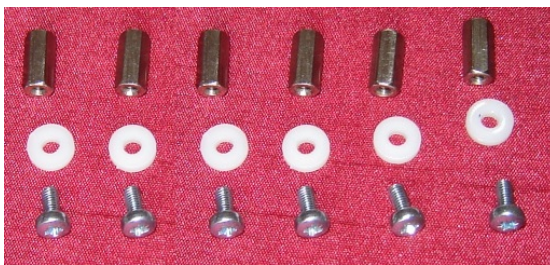
#### 3.1 Prepare the PCB

Ensure that the tube side of the PCB has all the component leads trimmed as short as possible, and in all cases less than 2mm.

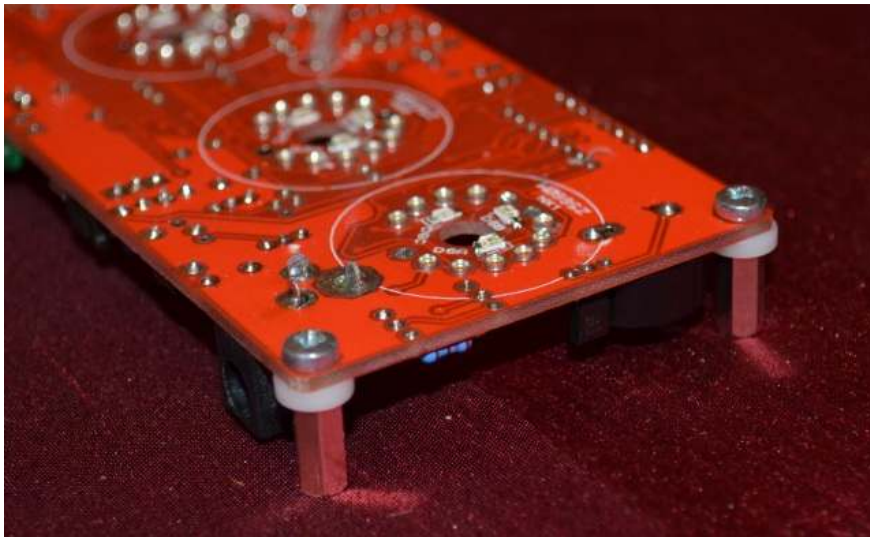
On the component side, ensure all components are mounted CLOSE to the PCB, so that the maximum height of any component is 13mm above the PCB

#### 3.2 Mount the PCB spacers on the PCB

Select the components as shown below:



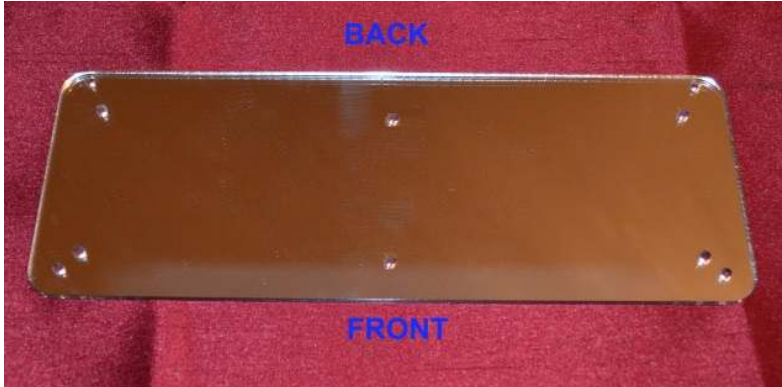
Mount the components onto the PCB as shown below. Do this for all six PCB mounting holes:



### 3.3 Mount the PCB on the Mirror base:

First, remove any protective film from the mirror base and also from all other plexiglass components.

Pay attention to the front and back of the mirror base:

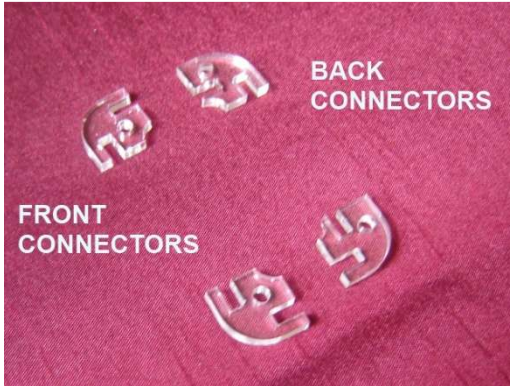


Using six M3 X 6mm screws, screw the PCB to the mirror base as shown below:



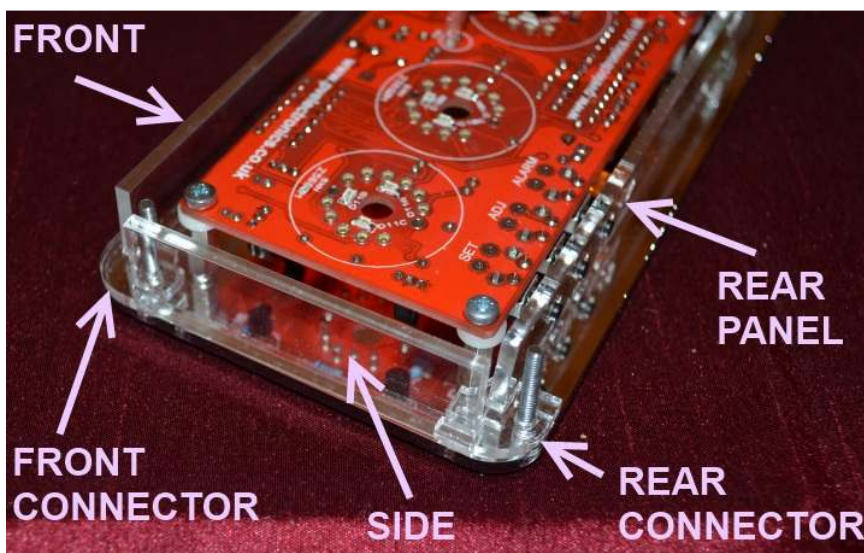
### 3.4 Identify the 3mm connectors

Find the four 3mm connectors, and note the different shape of the front and back connectors. Ensure any protective film has been removed:



### 3.5 Assembling the case (1)

Insert the 20mm M3 screws into the case base. Place the back panel in position then slide the two 3mm rear connectors into place over the 20mm screws to secure the back panel. Also place the two 3mm front connectors and front and side panels.

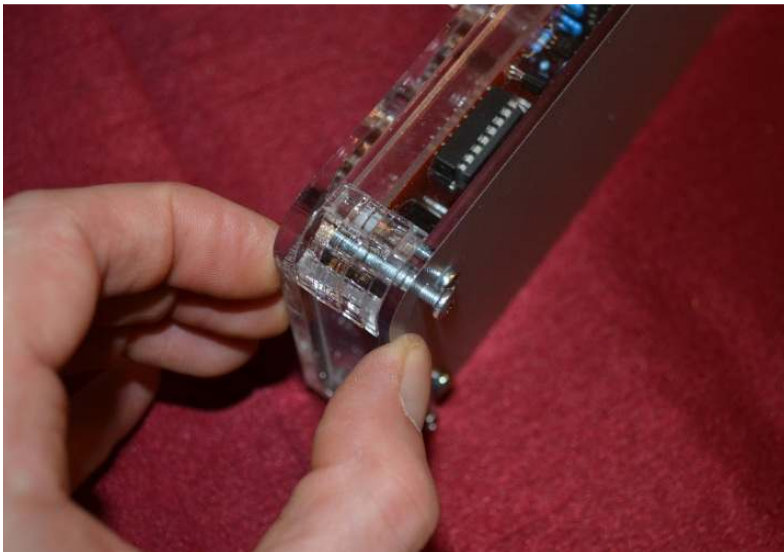


### 3.6 Assembling the case (2)

It is now possible to add the eight remaining 5mm thick connectors. Slide each connector over the 20mm screws to secure the front, side and back panels.

### 3.7 Assembling the case (3)

Now place on the top cover, and press down GENTLY to ensure the side, front and back components have engaged in the slots in the top cover. Invert the case and allow the 20mm screws to be pushed out as the top cover is pushed into place.



### 3.8 Final Assembly

Tighten the 20mm screws very gently. They do not need to be very tight – just tight enough to feel a slight resistance from the screwdriver.

Finally, place the six rubber feet symmetrically on the base.

