„BLUE DREAM“ in ‚Black Brilliance“ Case

This description explains the installation of the Universal Clock V1.08 board and the board V1.08d tube ‘Blue Dream’ in the Black Brilliance' housing.

What you get:

4 spacers, 31mm
4 top plate screw
7 flat lens screws
4 rubber feet
2 buttons
1 power jack
1 cleaning cloth
1 pair of cotton gloves
Complete acrylic case

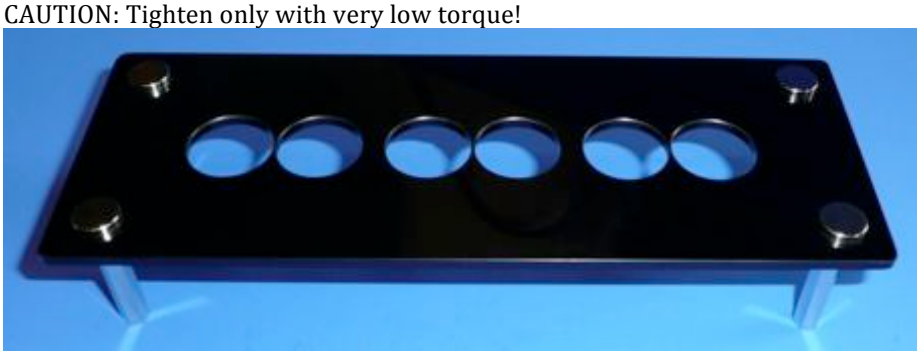
Optional:
LED Switch

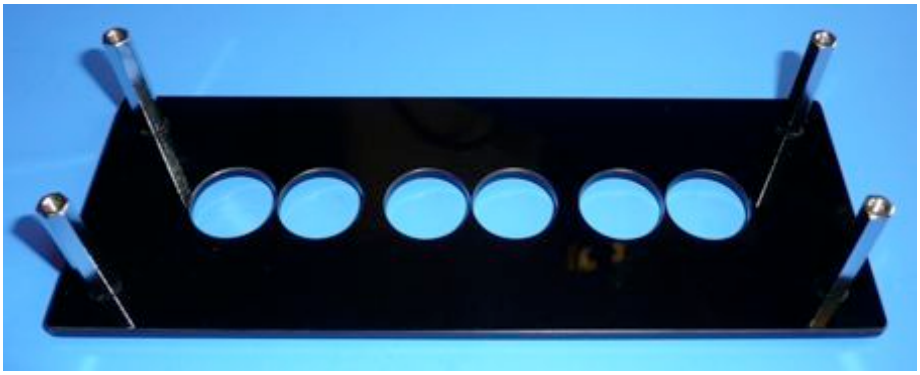
Housing assembly of the IN-8 board ‚Blue Dream'

Preparation of all parts:
If you wish, you can break all the edges slightly. Use a hard sanding block on the work bench, place on a 400 water sandpaper (The protective film should still be on the parts). Grind the parts very carefully in a 45° angle.
You can break the edges more or less. It is your decision.

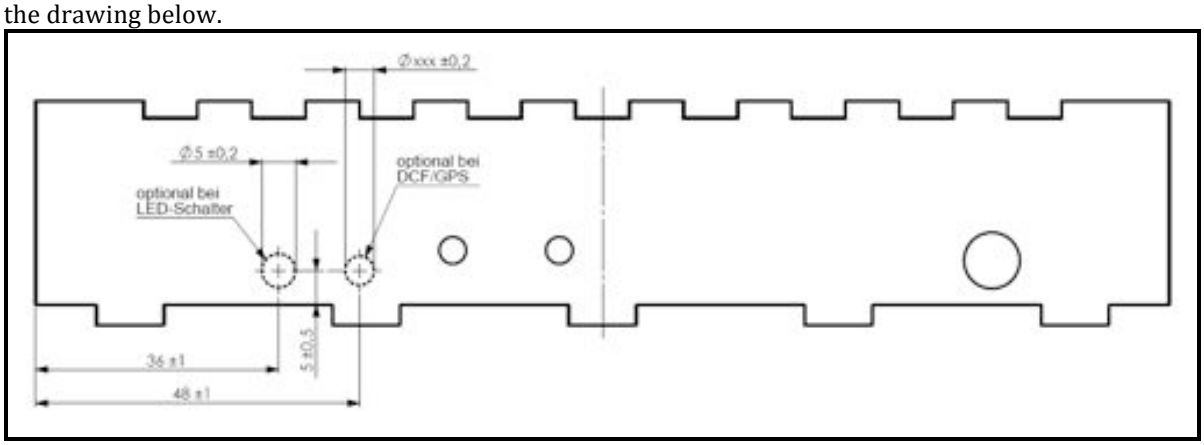
You can countersink the holes a little bit.
Use undiluted detergent as a lubricant. Now tighten the top plate and pull the protective foils from the top plate. Use the assembly gloves whenever you handle acrylic glass.
Screw the four standoffs 31 mm with the cover plate screws to the cover plate.

WARNING: The shallow cuts have to face downwards!
CAUTION: Tighten only with very low torque!

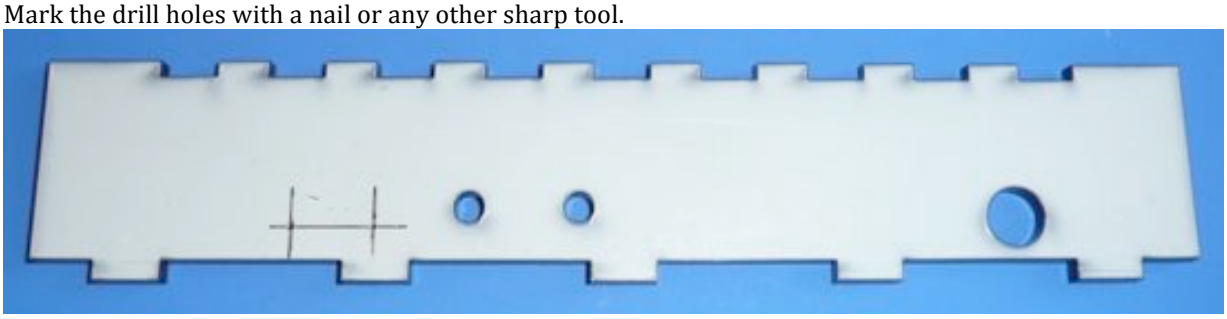




Preparation of the back plate:
If you use a DCF receiver, the GPS to DCF converter or the LED switch option, drill the holes according to the drawing below.



Mark the drill holes with a nail or any other sharp tool.



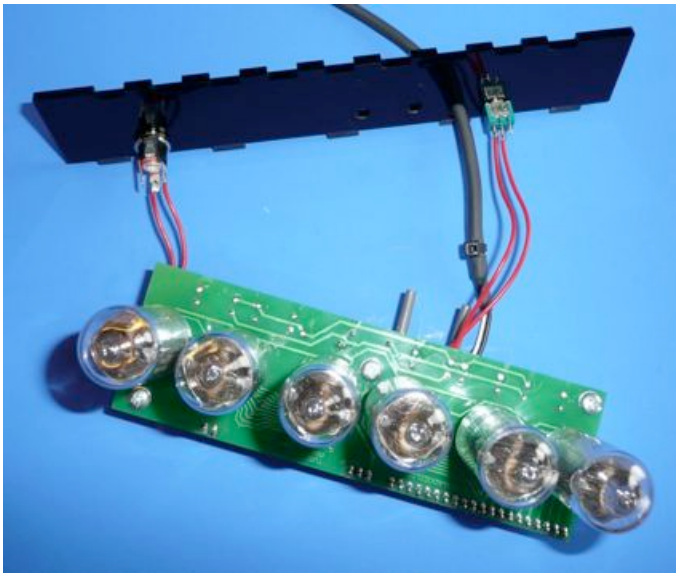
Leave the protective cover on the plate.

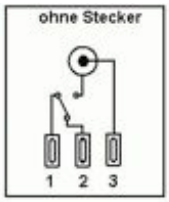
Measure the diameter for the cables, if you use this option. Fix the back part. Fix the back part in a vice using a bit of toilet paper to prevent scratches on the material.
Now drill holes:
- LED-Switch Option: Ø5mm for the switch
- DCF/GPS Option: drill the diameter you need for the cables

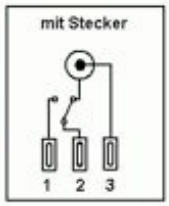
Now, cut all the holes in the back slightly and remove the protective foils from the back.
When cleaning, use the best isopropanol (isopropyl alcohol). Mount the power supply socket using a 3/8 nut – do not use pliers.
If you use the LED switch option, mount the switch.

If you use the GPS or DCF receiver, apply the cable through the hole and secure it with a cable binder from the inside of the case.

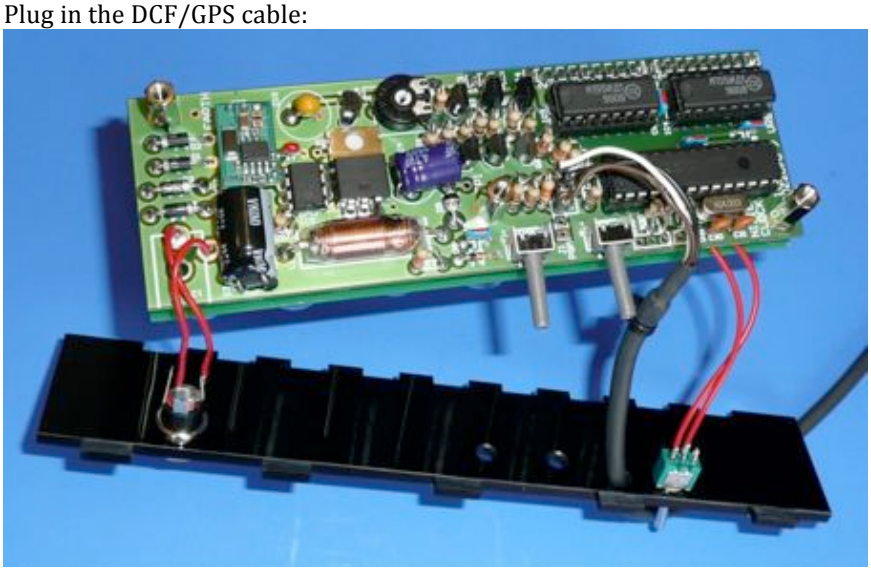
Attention:
The colours used in the picture are just an example. In your clock they can be different of course.
DCF brown, GND: black, VDD white.
Solder the cables as shown:





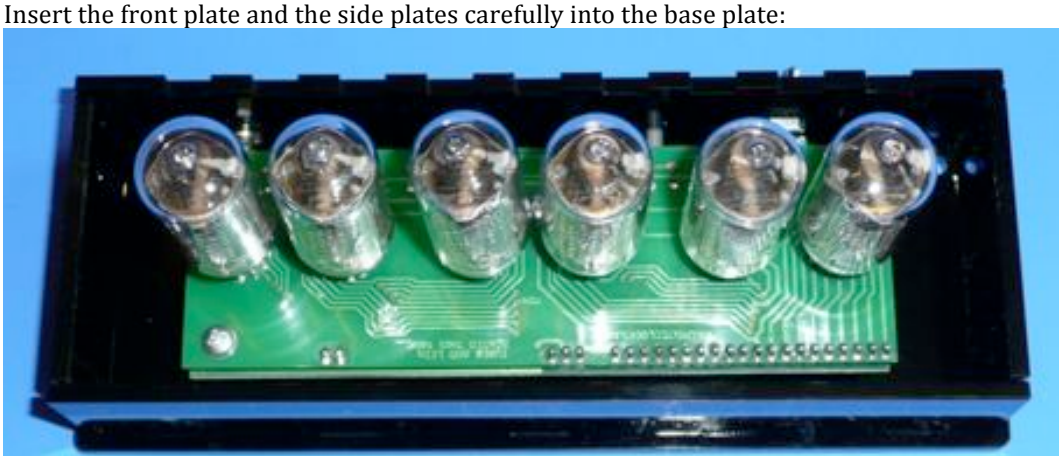


Plug in the DCF/GPS cable:



Final assembly:
Use your gloves and remove the protective foils from the base plate. Insert the back plate into the base plate:

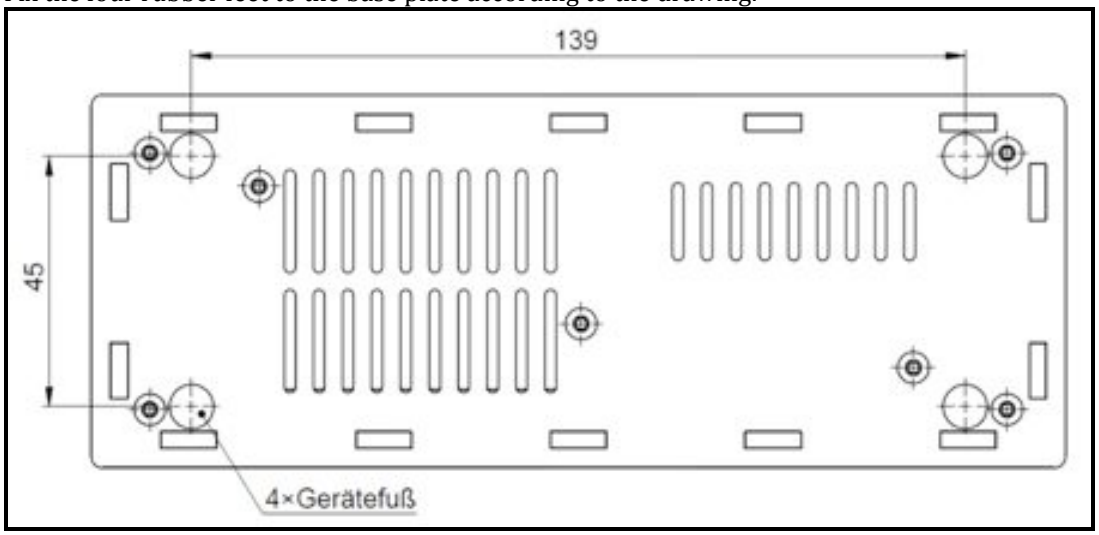
Mount the pcb to the bottom plate using the 3 M3×5 screws with low torque. Test the function of the socket, the switch and the GPS/DCF module.
Insert the front plate and the side plates carefully into the base plate:



Mount the top plate and fix it from the bottom plate with 4 M3×5 screws.

Attention:
Only use low torque otherwise the plates might bend!

Fix the four rubber feet to the base plate according to the drawing.



Test everything and enjoy the new 'Blue Dream' clock!

To clean your clock use the „Urbach/Nocrotec" cleaning cloth and Isopropanol (Isopropylalcohol).