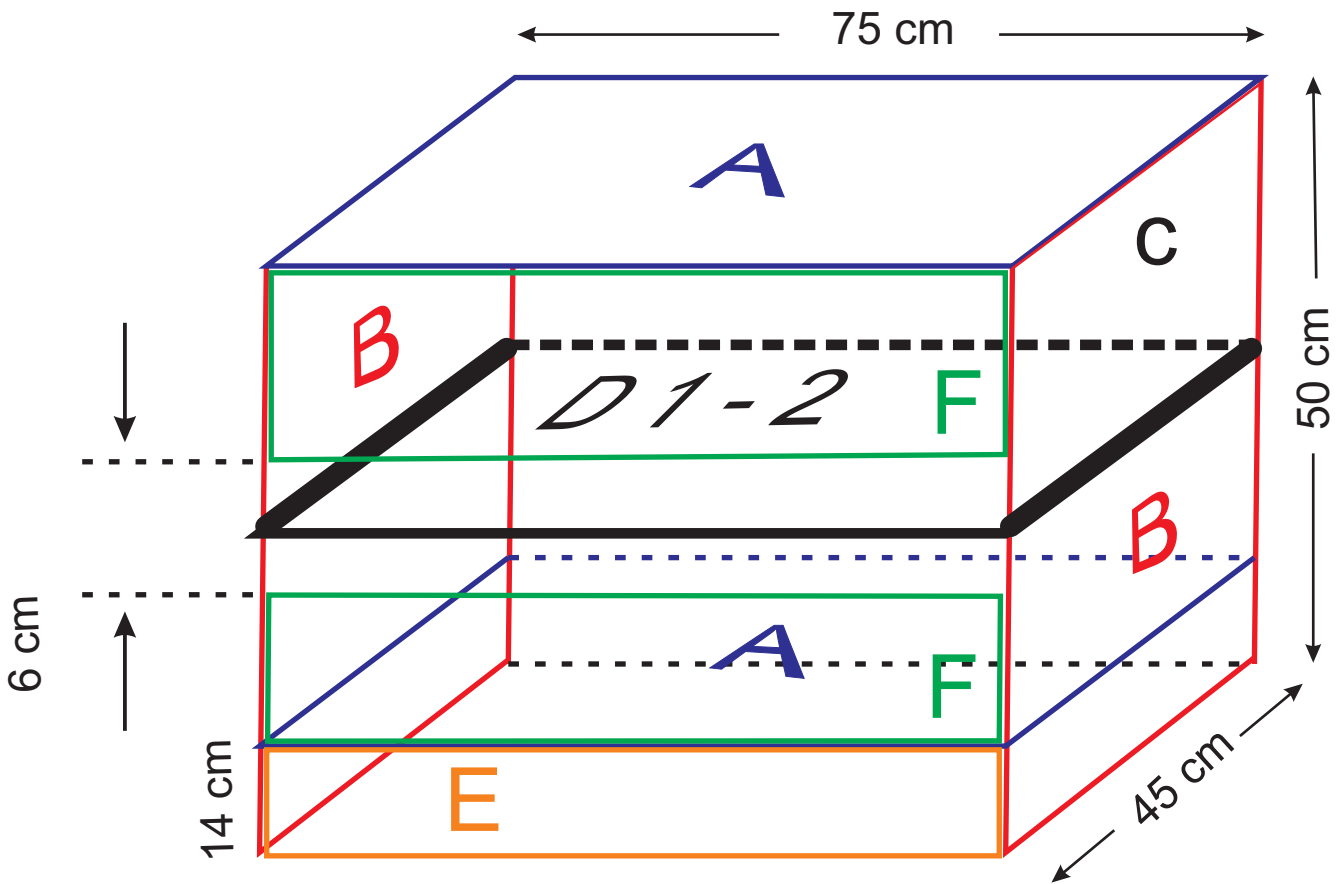


Blueprints

UV - Exposure Unit

Version 1.0 - 27/09/2011

Plywood Construction

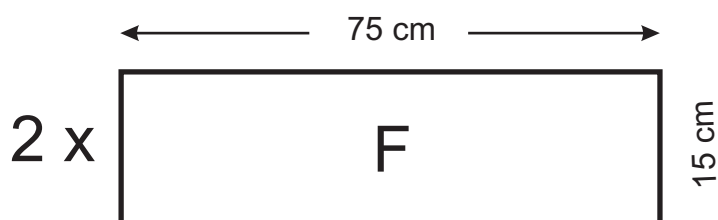
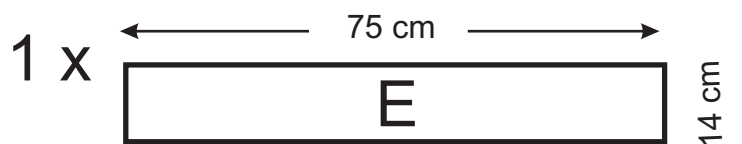
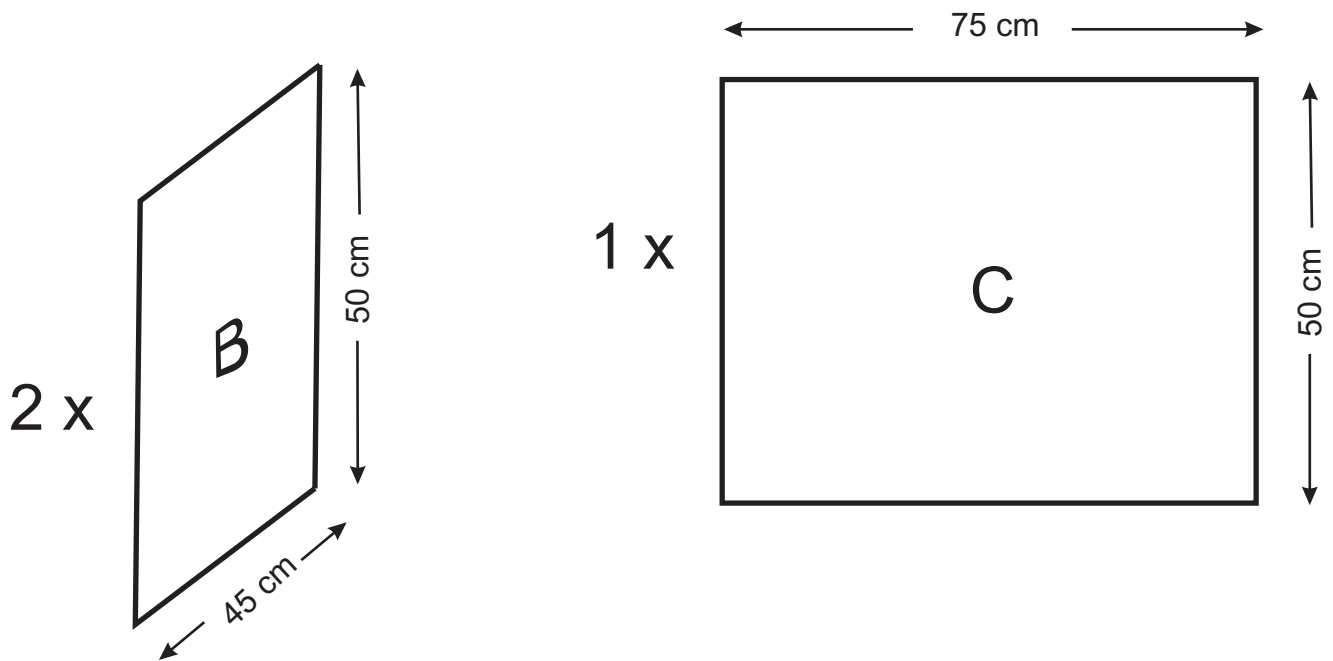
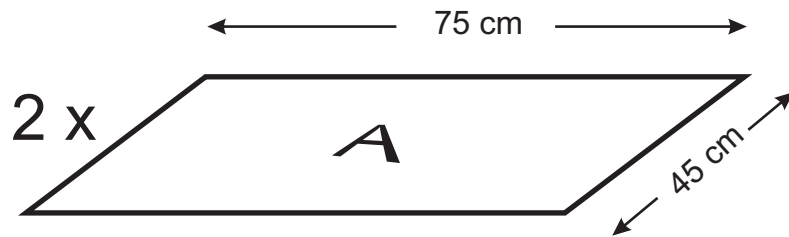


A, B, C, E, F: Plywood segments
 D: Glass drawer - (see page 4)

The PCB is placed on D. The UV- Lamps illuminate the top and the bottom surface of the PCB, simultaneously. Thus, they must be placed on the interior room of the construction - on the interior surface of A segments (refer to pages 6 & 9).

Tip: Mount C-cover using hinges in order to have access to the lamps (refer to page 6).

Plywood segments



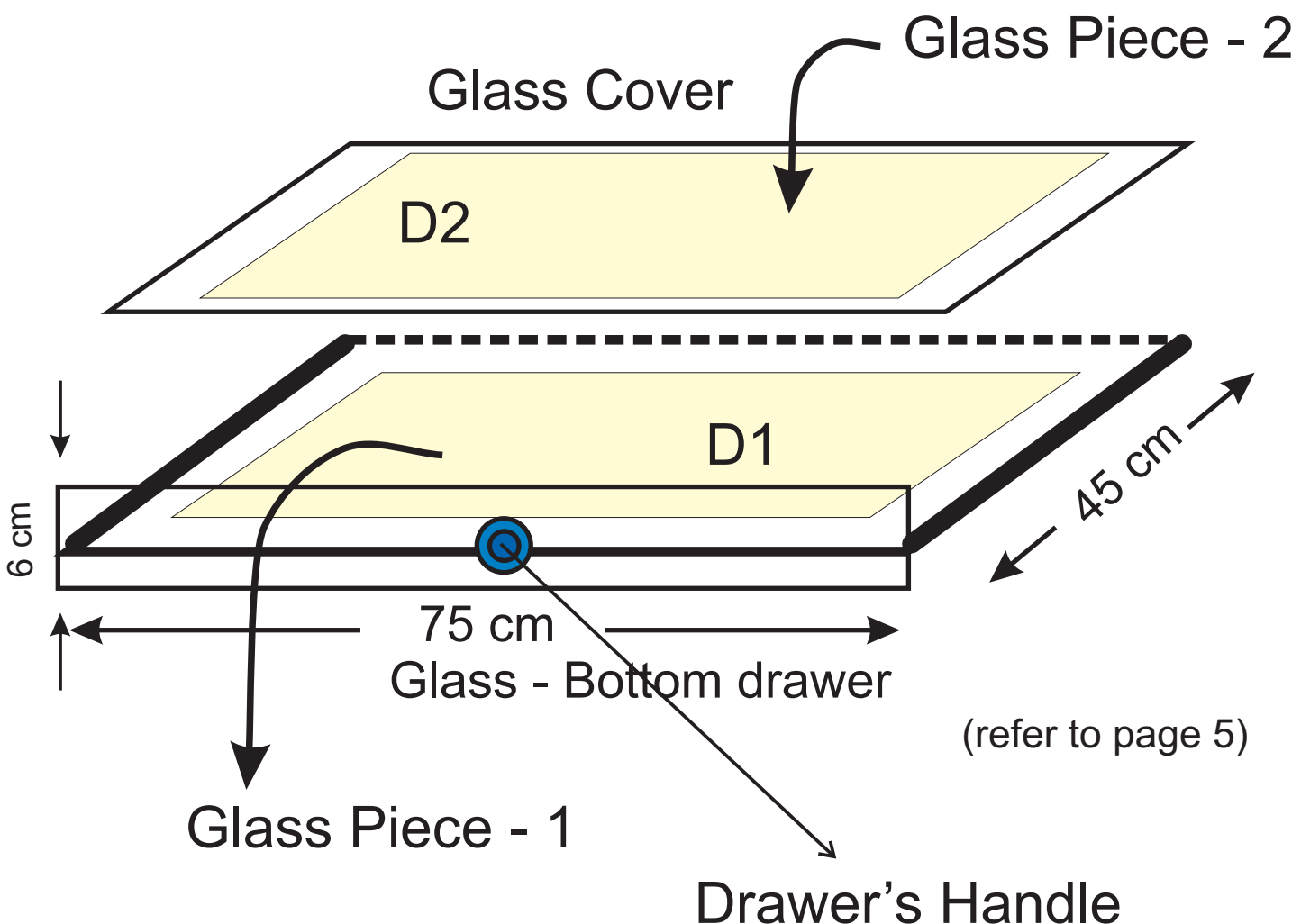
D1-2 drawer segments / details

(**Tip1:** Adjust the drawer to the plywood construction using rails.)

D1: Glass-Bottom drawer (here is placed the film for the bottom PCB layer)

D2: Portable Glass - Cover (below to this glass cover is placed the film for the Top PCB layer)

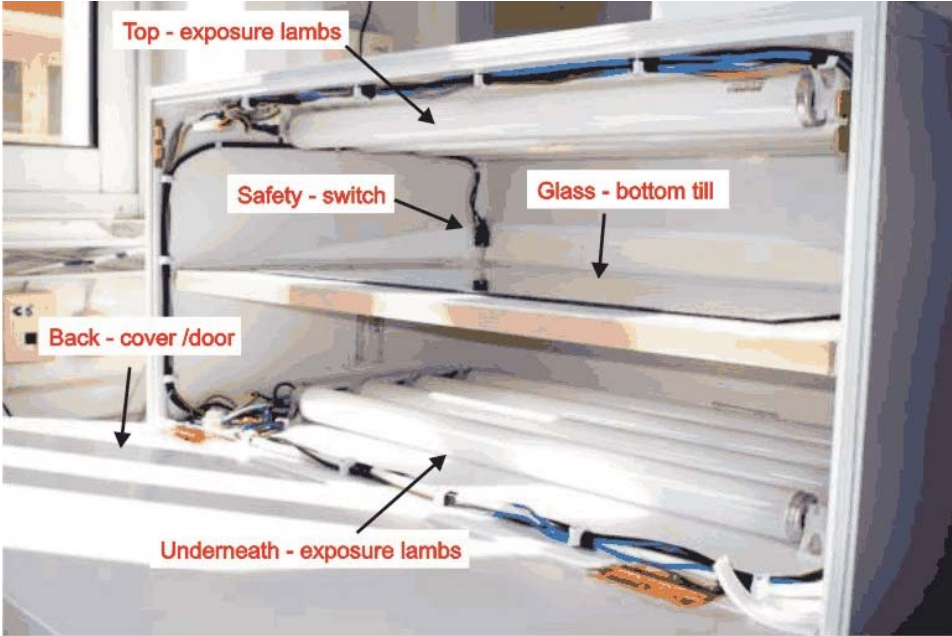
(The PCB is placed between the films)



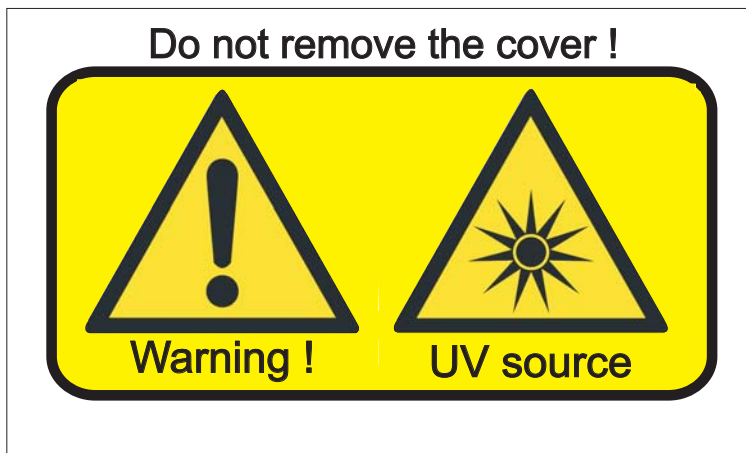
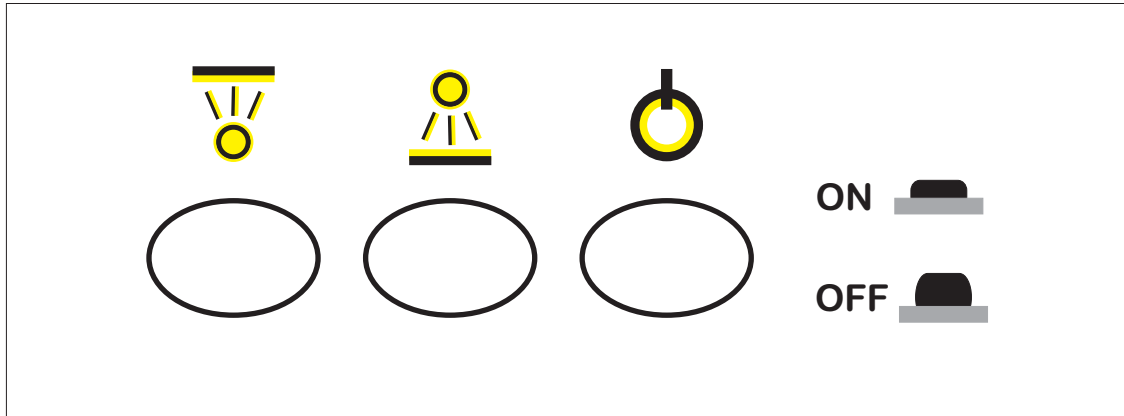
The UV-Exposure Unit / Snap - shots



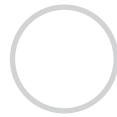
The UV-Exposure Unit / Interior Snap - shots (back cover door opened)



Labels (placed in the original design)



Labels (placed in the original design)



Start / Stop



Idle



Exposure

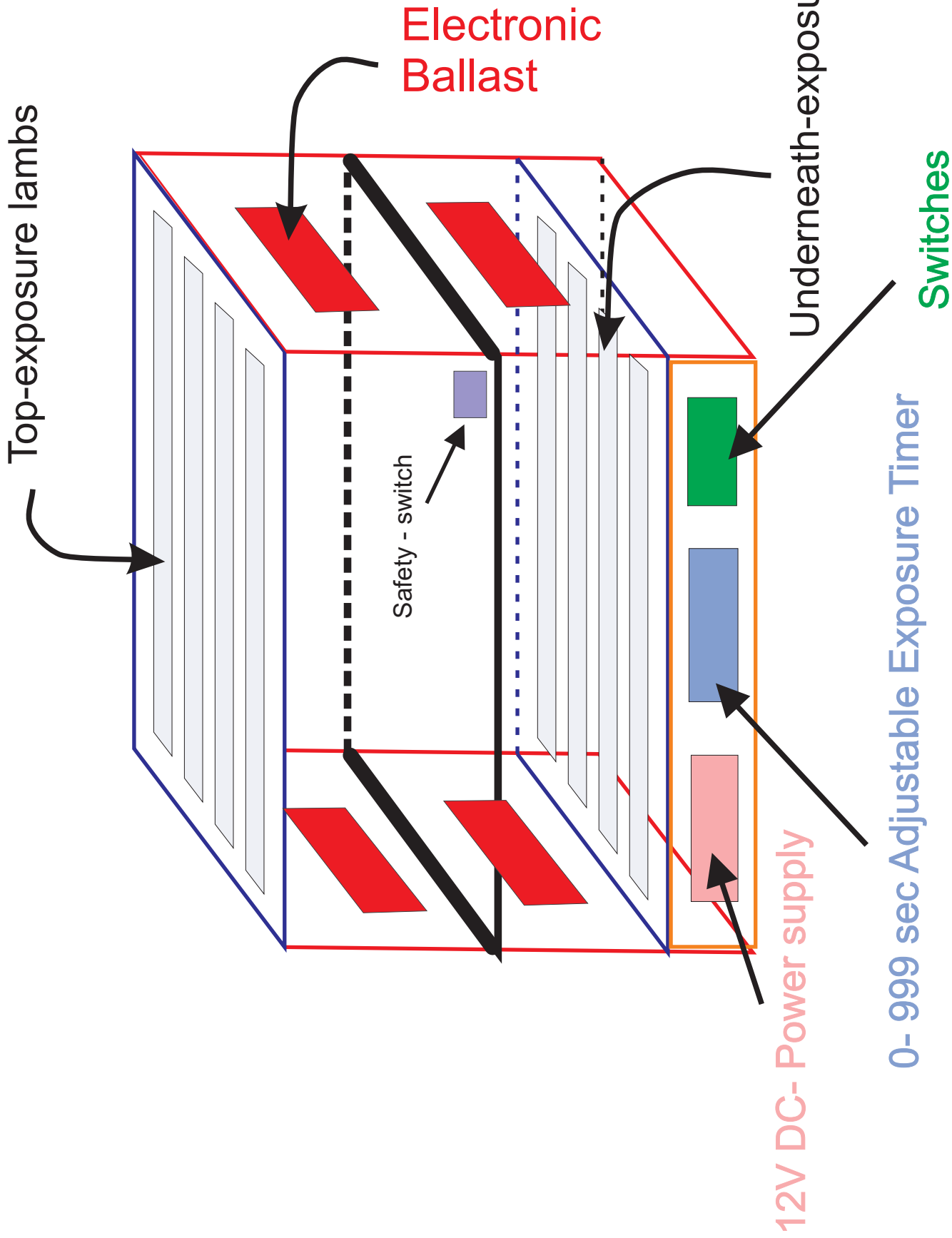


Set Timer

sec

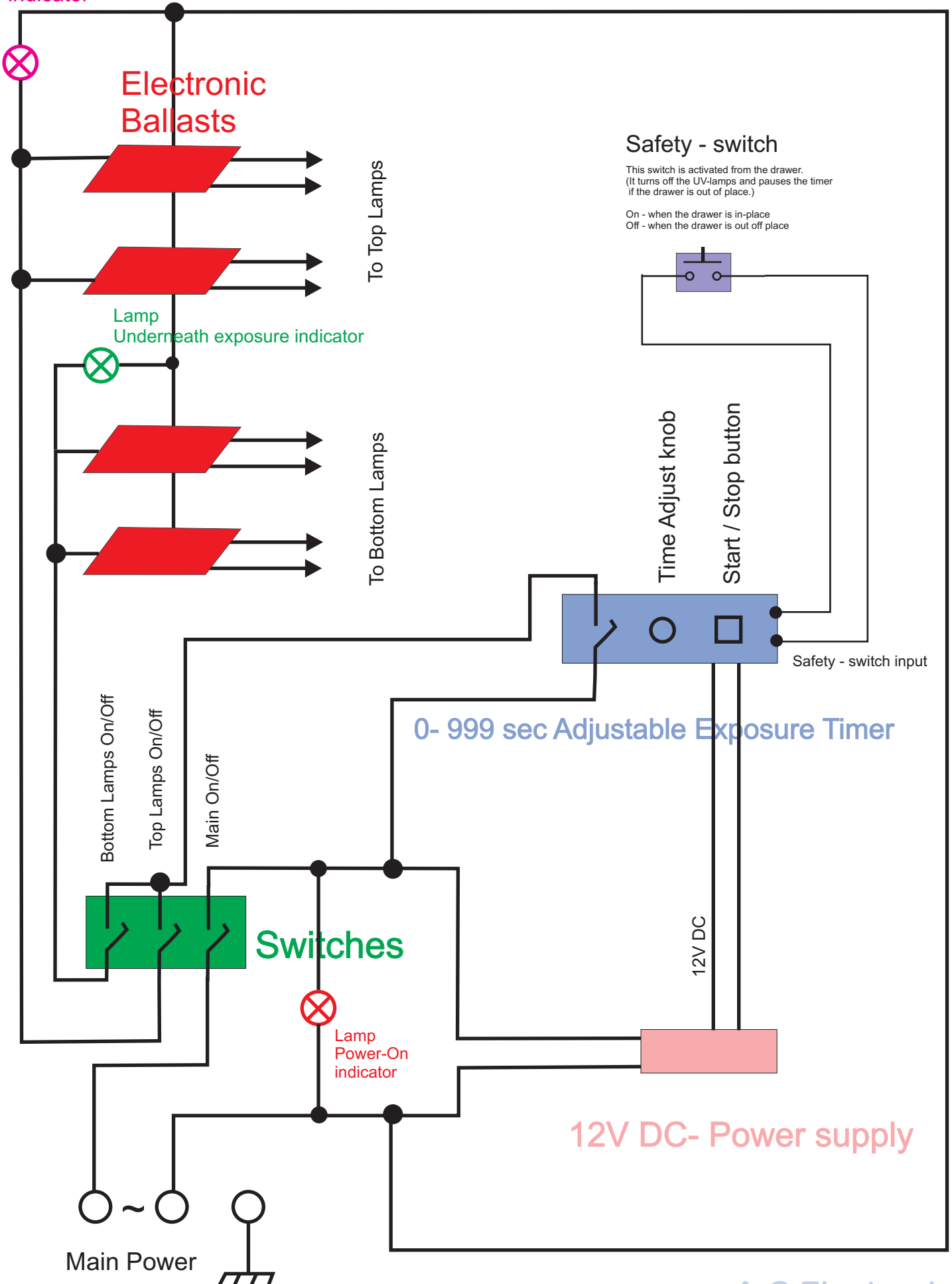


Electrical & Electronic Parts



Electrical Connections

Lamp
Top exposure
indicator



Safety - switch

This switch is activated from the drawer.
(It turns off the UV-lamps and pauses the timer
if the drawer is out of place.)

On - when the drawer is in-place
Off - when the drawer is out off place

0- 999 sec Adjustable Exposure Timer

12V DC

12V DC- Power supply

Main Power

Switches

Lamp
Power-On
indicator

To Top Lamps

To Bottom Lamps

Bottom Lamps On/Off

Top Lamps On/Off

Main On/Off

Time Adjust knob

Start / Stop button

Safety - switch input

Notes

Key Components placed in the original design:

8 x Fluorescent Blacklight Lamps:
SYLVANIA 350 BLACKLIGHT
F40W/350BL

(4 lamps used for top exposure and 4 for underneath exposure)

4 x Electronic Ballast for Fluorescent Lamps:
Lumen YZ-236AA T8/PLL

(each ballast is used to supply 2 Lamps)

1 x 0-999 sec Photo Timer with start / stop / pause and safety features:

CircuitLib, A.G Electronics / 0 -999 sec Photo Timer
www.circuitlib.com

1 x 12V/1A DC Power supply Pack

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