

# Pre-Production

SLQ Wiki Fabrication Lab 2026/01/18 06:23

## Pre-Production

These materials are per participant if not specified otherwise:

- 1 x A3 corrugated cardboard sheet, 3mm
- 2 x A3 corrugated cardboard sheets, 6mm
- 1 x A3 coated acrylic 3mm (for picks, plug support chamber support 10 - per sheet)
- 1 x A3 Coated acrylic, 6mm (for tension wrenches - 30 per sheet )
- 1 x Postage tube, 51mm (O/D:60mm)
- 3 x 45mm metal pipe (I/D: 7-9mm O/D: 10mm)
- 3 x Retractable Ballpoint pen (for spring)
- 3 x Skewers (3mm diameter)
- 3 x 30mm Dowel (Diameter: 6mm)
- 3 x 25mm Dowel (Diameter: 6mm)
- 3 x O-ring (I/D: 4.1mm O/D: 7.3mm), Nitrile rubber
- 2 x strong mini magnets
- Electrical tape
- 2 x Rubber bands (fit around the hull)
- Sandpaper (not too rough)

### Notes - 28 Nov 2016

Andrei and I looked out files for cutting and a hard copy prototype of the latest Lock as per Phil's instructions

[20161106\\_lock\\_prep\\_woodford\\_pg\\_1\\_.pdf](#)

We built the prototype from these parts and have got it working fairly well.

There are a couple of design files that need to be found or drawn up for:

- the back plate of the hull
- front Plate of the Hull (possibly with some branding- if we have time)
- front cover for the plug (to hide the tape)

Here's the finished product without the Plug front and hull front



We'll cut one of these from scratch and assemble as a test before prepping boxes

Here's the exploded view of all parts without the three parts mentioned above





## Notes - 01 Dec 2106

Found that the 3mm cardboard (which is actually 3.5mm) is too thick to cut plug parts have moved to 2.7mm pallet pad

## Packing Instructions for Woodford

The Packing process has been designed to ensure the kits are presentable, parts are easy to find and in a logical order (to assist in delivery in the dark at Woodford) and can be easily check that all parts are in each kit



## List of parts

### Hull

6x standard hull plates 1x Front cover plate 1x back cover plate 1x Hasp plate

**Plug/ barrel**

7 x Key hole plates (#17 spare, 16, 12, 11, 7 & 6) 6x plug support plates (#15, 14, 13, 10, 5 & 4) 2x Plugsupport/magnet plates (#9 & 8) 1x Back plug plate 1x front plugg plate (6mm double ply card) 1x plug cylinder (postage tube) 2x desiccant satchel

**Timber parts**

3x skewers cut in half (6x 1/2 skewers) 3x Top Pin (Dowel 30 mm) 3x Key Pins (Dowel 24mm with seat) 3x Orings

**metal Parts**

2x magnets 3x chamber 3x camber spring



### Plastic parts

1x Chamber support (small holes) 2x Chambers support (regular holes) 1x Lock Pick 1x Tension Bar (6mm) 18x Plug supports 2x plug support spare



### Files

This is where you put files for laser cutting etc..

[20161128\\_lock\\_wf\\_2016-17.zip](#)

Barrel/ Plug laid out on 280x730 for 2.5mm pallet pad

[backup\\_of\\_barrelmb01122016.cdr](#)

[acrylic\\_parts\\_x\\_8\\_on\\_template.cdr](#)

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[frontplatehull.cdr](#)

hull\_v.101.cdr

lock\_barrel-1.cdr

acrylic\_parts\_x\_8\_on\_template\_v1.cdr