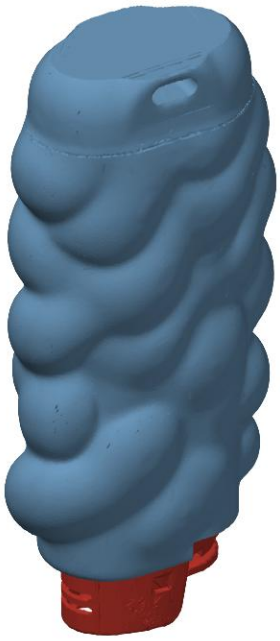
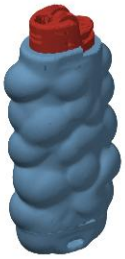
lighter sleeve

assembly guide: 2 printed parts, 0 rods and pins to cut, 3 bought parts



the back



TOOLS

- tweezers (small parts and springs)
- craft knife or deburring tool: the elephant's foot (the squashed first layer) off every printed part
- this booklet printed at 100 % (actual size)

HOW TO READ THE STEPS

- grey: already in
- colour, outlined: the new part
- green ring: where it goes
- dashed blue arrow: the way it goes in
- it can go in the wrong way up: read WAY UP
- glue here (never in a bore)
- CHECK: test it before going on
- turn the work over
- **1:1** PARTS tray: true size (1:1) when printed at 100 %

50 mm at 100 %

BEFORE STEP 1: do this first

☐ 1. Clean every printed part

- 2 printed parts: peel the brim, scrape the elephant's foot (the squashed first layer) off the bed-side edge, and trim stringing out of every hole.

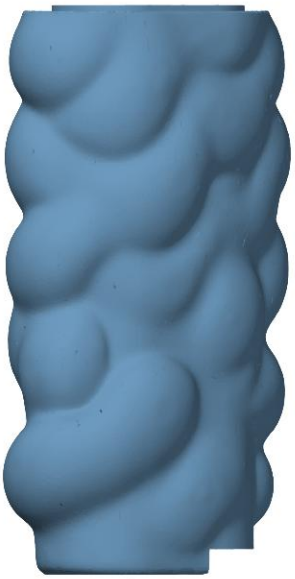
☐ 2. Sort

- Lay every rod, pin and spacer on its outline on the sorting card, and every printed part on the parts sheet: a part left over or missing shows at once.

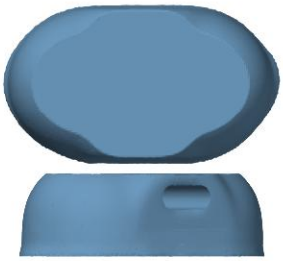
50 mm at 100 %

PARTS SHEET: the printed parts

Each part from above, its side profile under it, the way it is installed. True size unless marked 1:2.



sleeve
1:1, side view



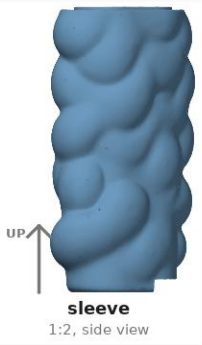
cap
1:1, top + side

50 mm at 100 %

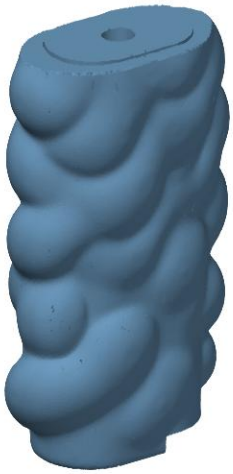
1 sleeve

frame

PARTS



sleeve
1:2, side view



Lay sleeve (frame) flat on the bench as drawn: everything else is fitted onto it.

- Print it standing on its floor: the bubbles have 45 deg undersides, no supports.

CHECK: the lighter pushes in from the top against the six ribs and stays; the magnet presses in flush

2 magnet_sleeve

magnet

PARTS



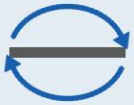
magnet_sleeve
1:1, top + side

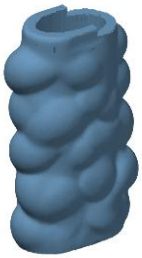


Fit magnet_sleeve (magnet) down onto sleeve.

TURN THE WORK OVER: the back face up now





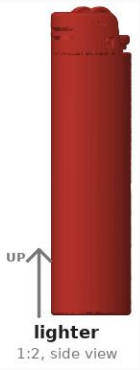


50 mm at 100 %

3 lighter

other

PARTS





Fit lighter (other) down onto sleeve.

4 magnet_cap

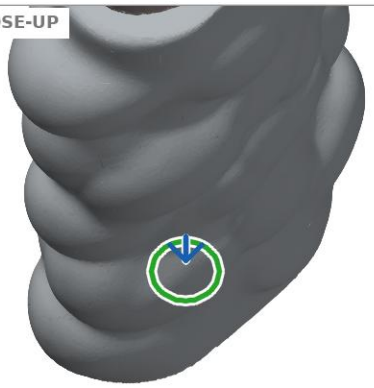
magnet

PARTS





CLOSE-UP



Fit magnet_cap (magnet) down onto sleeve.

TURN THE WORK OVER: the front face up again





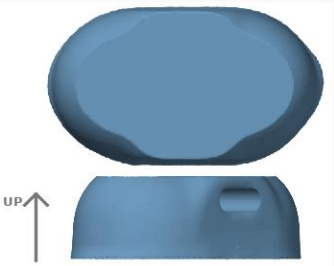


50 mm at 100 %

5 cap

other

PARTS



cap
1:1, top + side



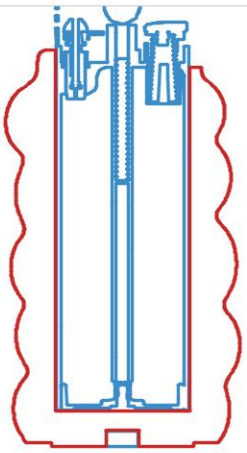
Fit cap (other) down onto magnet_cap.

WAY UP: print it standing on its flat foot, recess up.

CHECK: it seats on the sleeve's floor inside its rim and the magnets pull it home; a key ring passes the hole

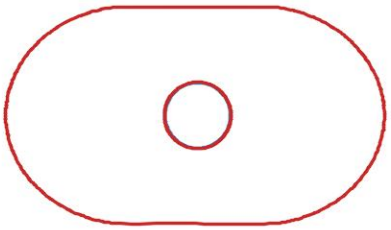
50 mm at 100 %

Details: cut straight through. Red = the part, blue = what holds it, grey = rod



5 mm

step 1: sleeve. print it standing on its floor: the bubbles have 45 deg undersides, no supports



5 mm

step 5: cap. print it standing on its flat foot, recess up

50 mm at 100 %

TROUBLESHOOTING

THE CHECK THAT FAILED	STEP	WHAT TO DO
sleeve: the lighter pushes in from the top against the six ribs and stays; the magnet presses in flush	**1**	undo the step; check it is the right way up and fully seated
cap: it seats on the sleeve's floor inside its rim and the magnets pull it home; a key ring passes the hole	**5**	take it off and re-seat it the right way up (the step's WAY UP note), pressed flat

50 mm at 100 %