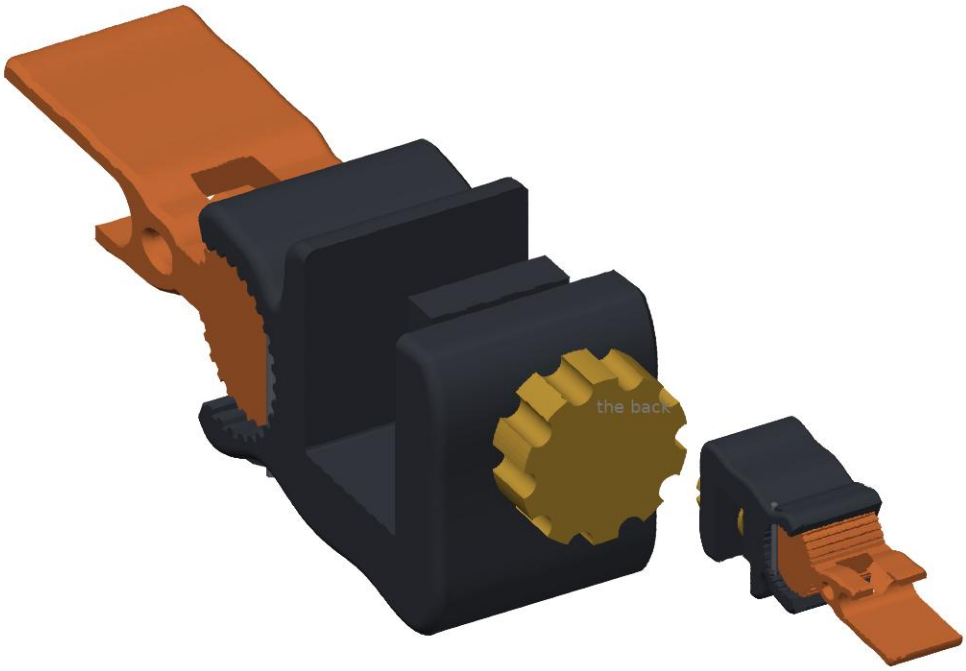
phone stand table clamp styled

assembly guide: 5 printed parts, 2 rods and pins to cut, 0 bought parts



TOOLS

- flush cutters or a small hacksaw and a fine file: cut the rods to length, square and chamfer the ends
- 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

- 5 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. Cut the rods (lay each on the sorting card to check its length)

- 44.0 mm: lock_rod (pin, 2 mm)
- 28.8 mm: pad_rod (pin, 2 mm)
- stock: 2 pieces of 2 mm rod, 73 mm in all; allow 75 mm (1 mm a cut). Cut each a hair long and file the ends square, then chamfer the edge lightly (a burr catches whatever slides onto the rod or into its hole).

☐ 3. 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 %

SORTING CARD (1:1): rods, pins, spacers, hardware

Print at 100 %: every outline is true size (check the 50 mm bar at the foot). Lay each rod, pin, spacer and screw on its outline before you start; label them with tape.



44.0 mm
lock_rod
1:1



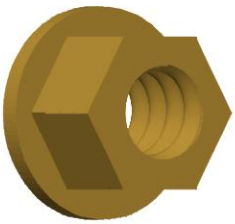
28.8 mm
pad_rod
1:1

PARTS SHEET: the printed parts

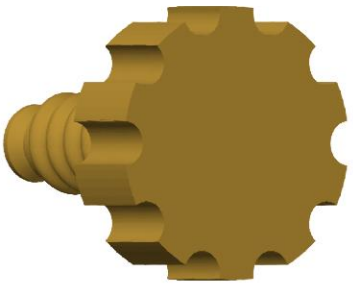
Each part from above, its side profile under it, the way it is installed. True size unless marked 1:2.



clamp
1:1, side view



nut
1:1, side view

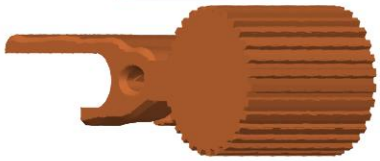


screw
1:1, side view



pad
1:1, side view





holder
1:2, top + side

50 mm at 100 %

1 clamp

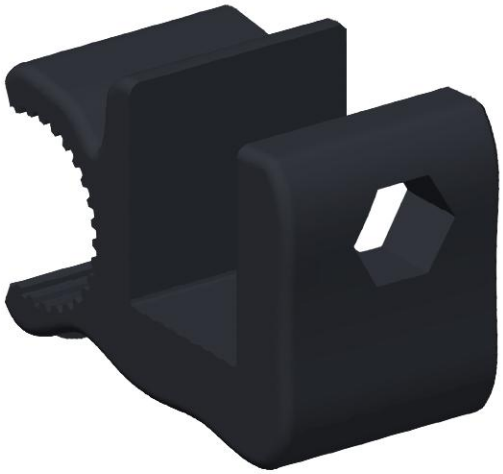
frame

PARTS



clamp

1:4, side view



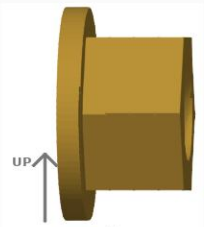
Lay clamp (frame) flat on the bench as drawn: everything else is fitted onto it.

- [x] CHECK: the socket teeth are clean all along (no strings), the hex pocket takes the nut

2 nut

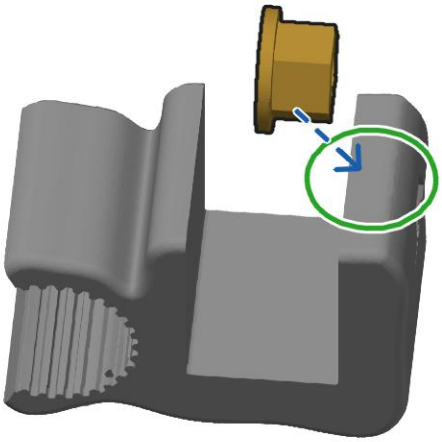
other

PARTS

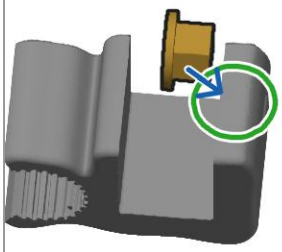


nut

1:1, side view



CLOSE-UP



Fit nut (other) down onto clamp.

- [x] CHECK: the screw turns in by hand all the way through

50 mm at 100 %

3 screw

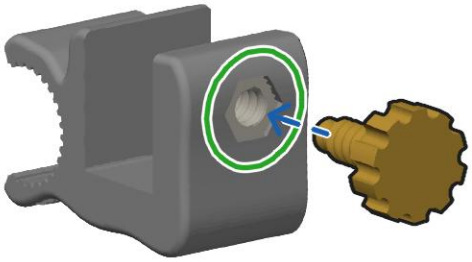
knob

PARTS



screw

1:2, side view



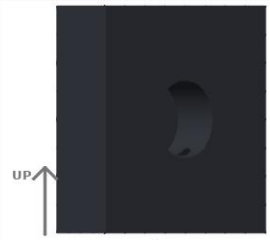
Fit screw (knob) onto nut (the way the arrow points).

CHECK: turns in the nut by hand; the pad turns freely on its tip

4 pad

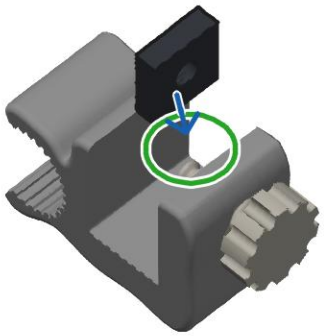
other

PARTS



pad

1:1, side view



Fit pad (other) down onto screw.

CHECK: sits flat under the table; turns on the screw tip, can't come off

50 mm at 100 %

5 pad_rod

pin

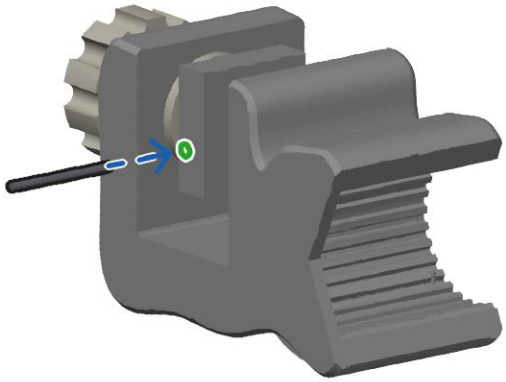
PARTS

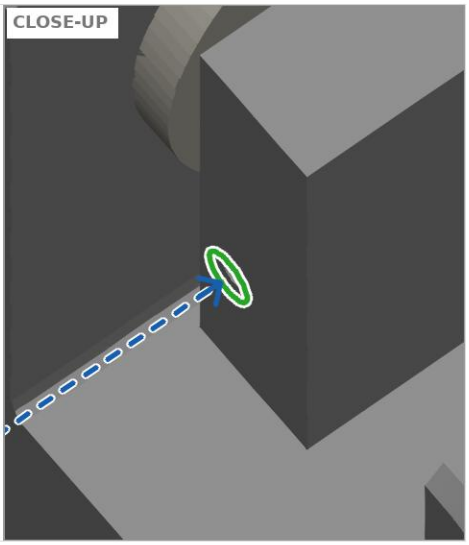


28.8 mm

pad_rod

1:1



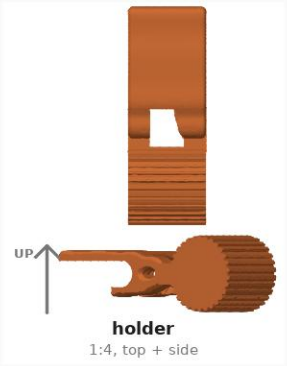


Push pad_rod (2 x 28.8 mm pin) into its hole in pad (the way the arrow points).

6 holder

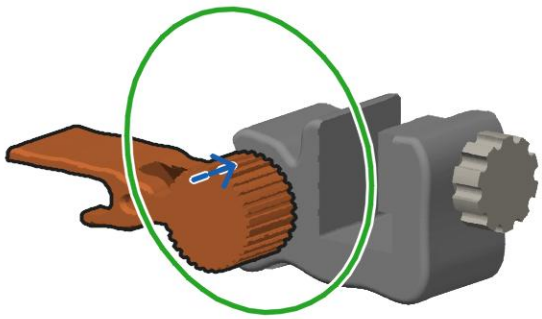
other

PARTS



holder

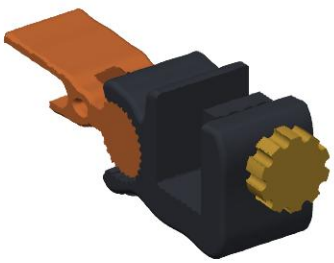
1:4, top + side

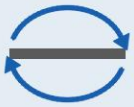


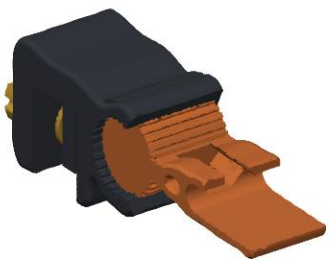
Fit holder (other) onto clamp (the way the arrow points).

CHECK: the hub slides into the socket at every angle with the teeth meshed; the phone stands in the cup with its charger plugged in down the middle slot

TURN THE WORK OVER: the back face up now





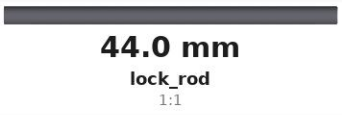


50 mm at 100 %

7 lock_rod

pin

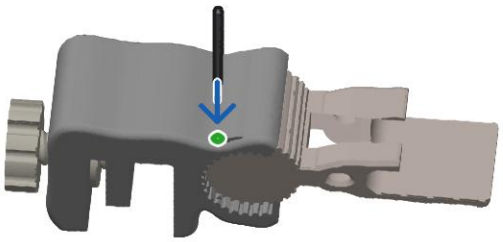
PARTS

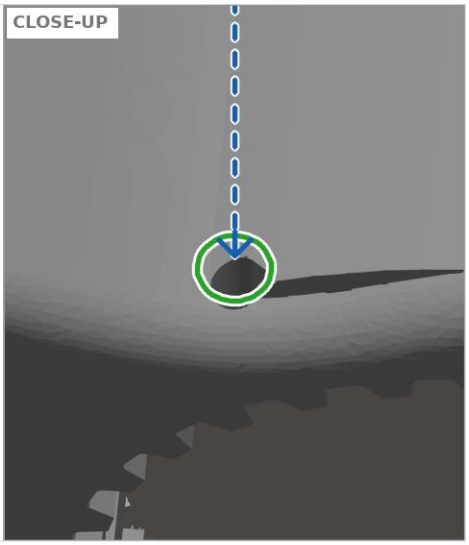


44.0 mm

lock_rod

1:1





Push lock_rod (2 x 44.0 mm pin) into its hole in clamp.

50 mm at 100 %

TROUBLESHOOTING

THE CHECK THAT FAILED	STEP	WHAT TO DO
clamp: the socket teeth are clean all along (no strings), the hex pocket takes the nut	**1**	re-seat the lever and the banking pins; check nothing rubs; teeth that slip past: stop and report it
nut: the screw turns in by hand all the way through	**2**	undo the step; check it is the right way up and fully seated
screw: turns in the nut by hand; the pad turns freely on its tip	**3**	undo the step; check it is the right way up and fully seated
pad: sits flat under the table; turns on the screw tip, can't come off	**4**	undo the step; check it is the right way up and fully seated
holder: the hub slides into the socket at every angle with the teeth meshed; the phone stands in the cup with its charger plugged in down the middle slot	**6**	re-seat the lever and the banking pins; check nothing rubs; teeth that slip past: stop and report it

50 mm at 100 %