Cosmo65 Build Guide

Required Tools

- M1.3 Hex Key
- Flathead screwdriver (optional)
- Some patience

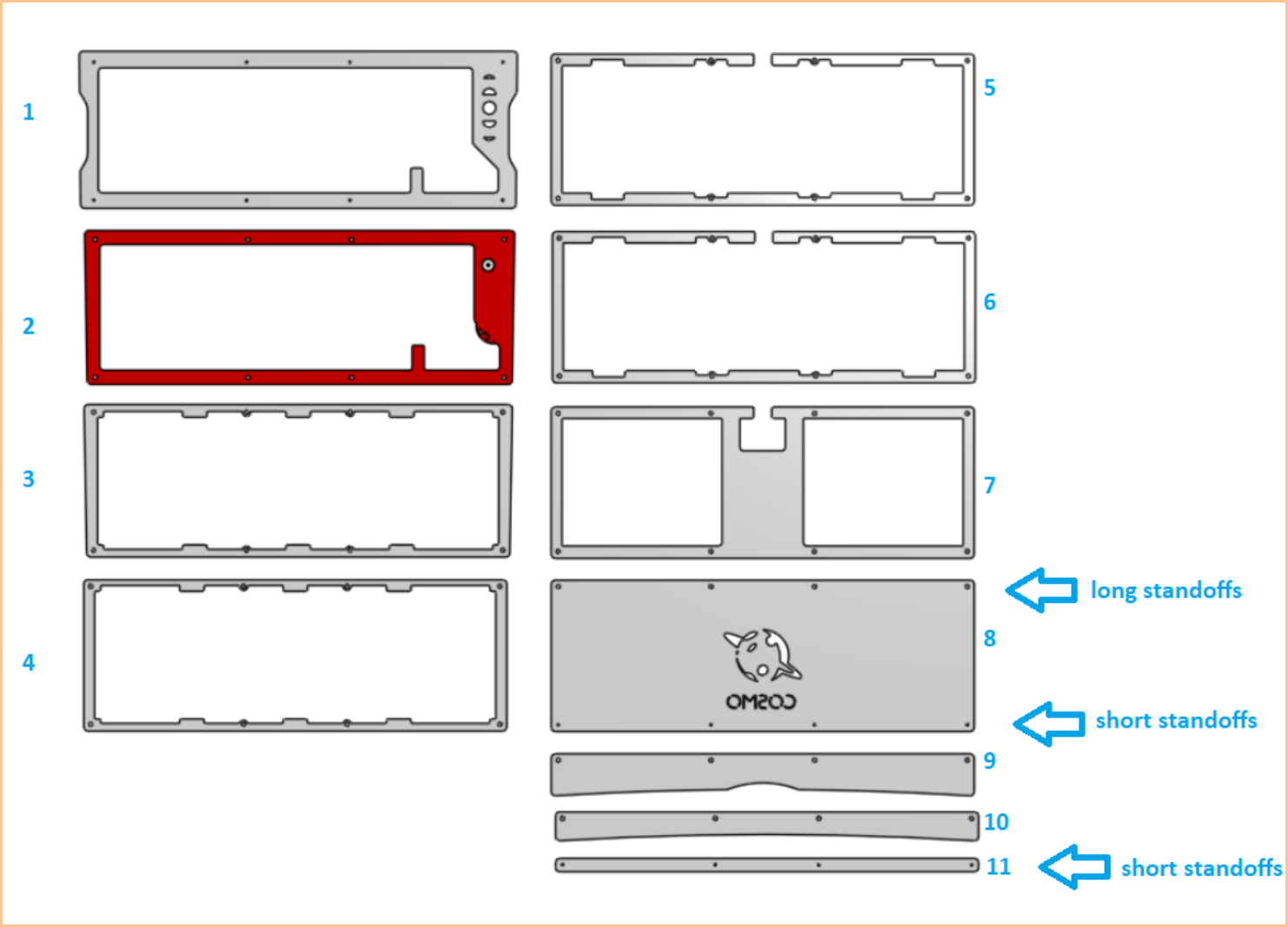
Pieces in Base Kit

- x8 case pieces
- x3 riser pieces
- x4 long standoffs
- x4 short standoffs
- x16 M2 screws
- x32 gaskets
- x1 pcb
- x1 FR4 plate

Installation (8 steps)

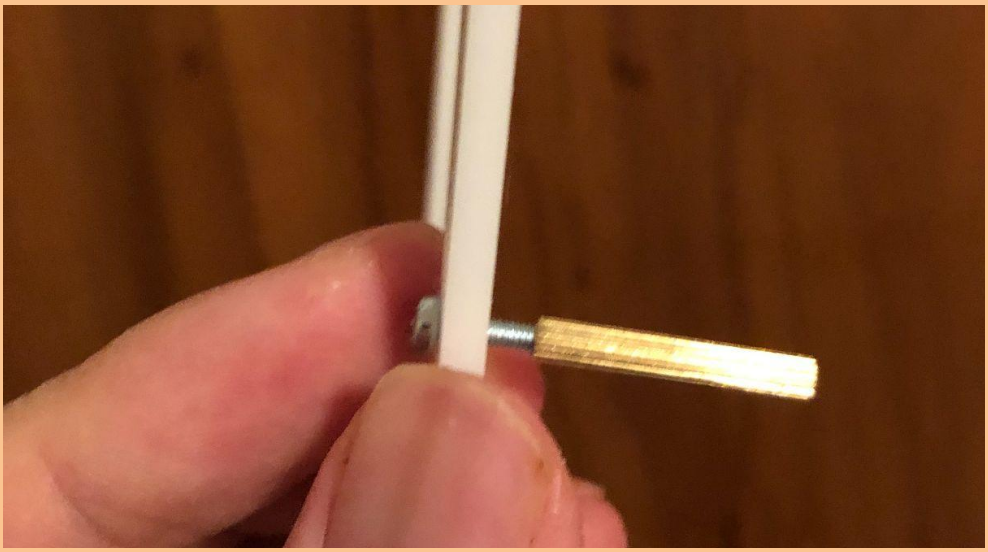
PIECES 6 to 11 INSTALLATION

1. Gather the case and feet pieces and lay them out according to this order. Peel off the protective tape layer on the acrylic pieces using your fingernails or a small flathead screwdriver.



2. Gather 4 short standoffs, screws, and piece 8. Run a screw through the bottom four holes of piece 8, then partially screw in a standoff on the other side as shown in the picture.

Note: Do not screw in the screw too much; just enough so that the standoff doesn't come off is good.

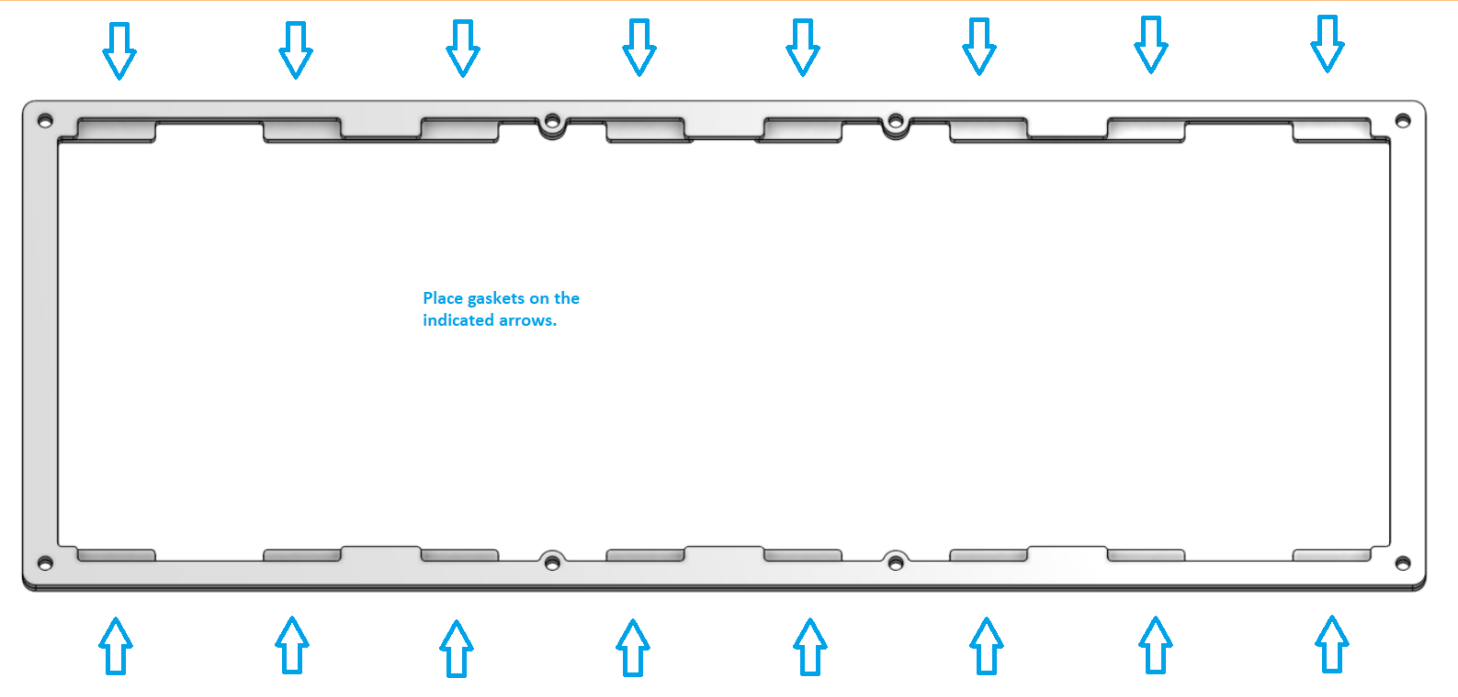


3. Repeat step 2 with piece 11, this time using the long standoffs .

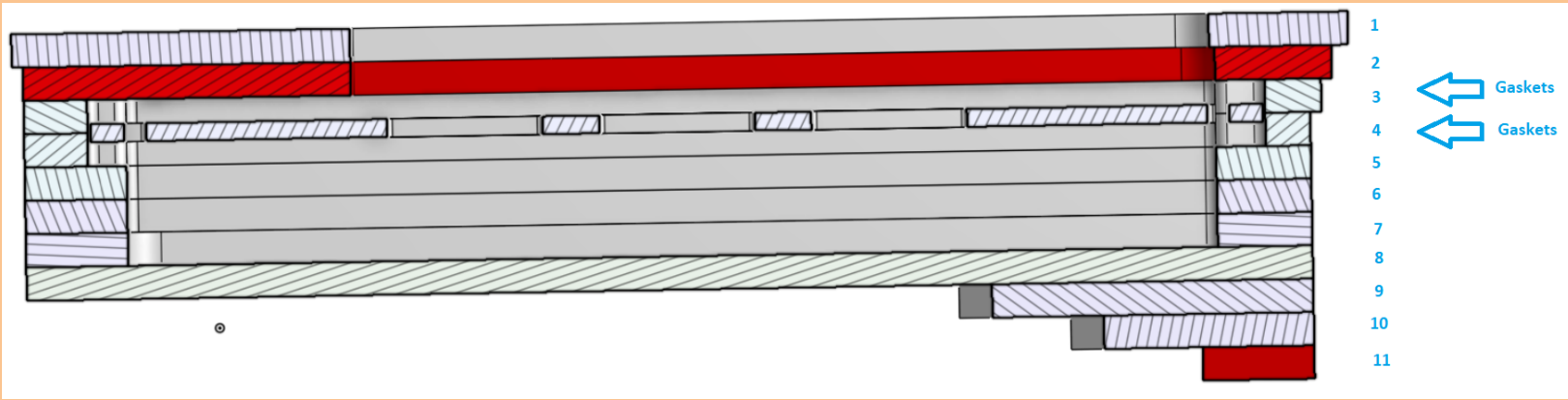
4. Stack piece 10 onto piece 11 aligning the pieces using the long standoffs. Then stack pieces 9, 8, 7, and 6 on top of assembly. Place the entire assembly aside for now.

GASKET INSTALLATION

5. Stack pieces 4 and 5 on top of one another, which should form an outline for the gaskets. Place 16 gaskets on piece 5 as indicated in the picture.



(Gasket assembly on Piece 4 and 5)



(gaskets lay below the 2nd piece and above the 5th piece)

6. Repeat step 5 with pieces 2 and 3.
    - Lay your installed plate-pcb assembly onto the 6th layer from the top as shown in the picture.

7. Now stack pieces 2, 3, 4 and 5 on top of piece 6 according to their order. Note that

the standoffs do not need to reach all the way through to piece 2.

TOP PIECE INSTALLATION

8. Place piece 1 on top of the assembly, align the holes, and using your hex key, screw in the 8 top screws.

Note: If your top screws are loose even after screwing, you've screwed in the bottom screws too tightly to the standoffs. Loosen them so that the standoffs can reach further up.

9. Plug in the keyboard and navigate to VIA's web app. The board should be automatically recognized and you can remap the keyboard there if needed.

10. You are done! We hope you enjoy your newly built Cosmo65. If you have any questions about the build process, contact us at ask.bentoboxstudios@gmail.com or reach out to us on our discord server.

[OPTIONAL] Keymapping Using QMK/VIA

The Keyboard is programmable using QMK or VIA. In order to use QMK, head on over to the qmk configurator and search up the cosmo65 board. Make the keymap that you want and then hit "compile" (near the top right of the window). Once the hex file is obtained, use the QMK toolbox software to flash the .hex file to the board.

The boards come pre-flashed with VIA firmware. In order to use the VIA firmware, if not flashed with VIA firmware already, obtain the VIA .hex file from our discord server and then flash the keyboard with it. From there, navigate to VIA's web interface and authorize the cosmo65 keyboard in VIA. If the VIA .json file hasn't been merged to the main VIA github repository yet, you might need to manually add the VIA .json file in the webpage. To do this, go to the "design" tab and click "load draft definition". From there, add the cosmo65 VIA .json file (found in the discord server), and proceed to use the keyboard.