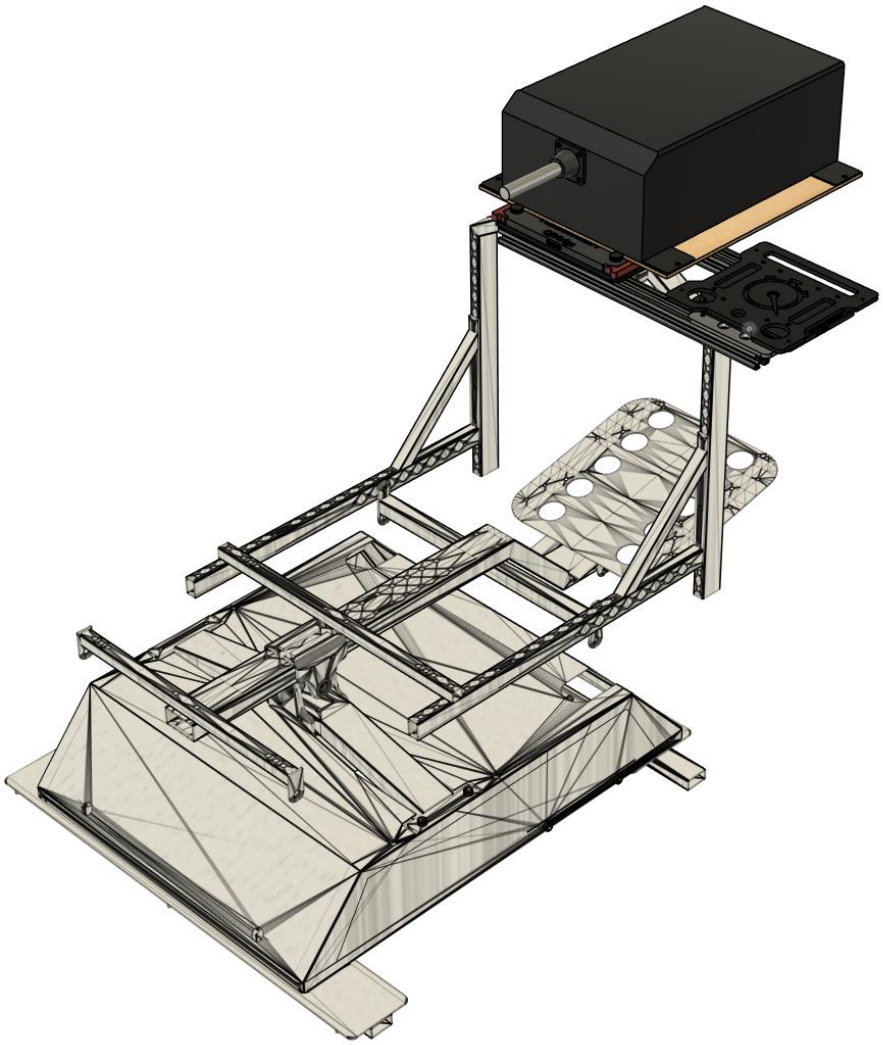
Quick Release Mounts for Sim Rigs

QR4rigs®

Change your rig in seconds, spend more time in the game!

Creating an extended Wheel/Yoke Table for your DOF Reality Rig

In this guide we 'suggest' a method of replacing your DOF Reality **RECTANGULAR** wheel table with **30-series aluminium extrusion** to be able to fully support a FFB Yoke with QR4rigs QRUHD Quick Release along with a Throttle Quadrant with a QR4rigs QRMax Quick Release.



The picture above shows a DOF Reality rig with the suggested extended Wheel table with:

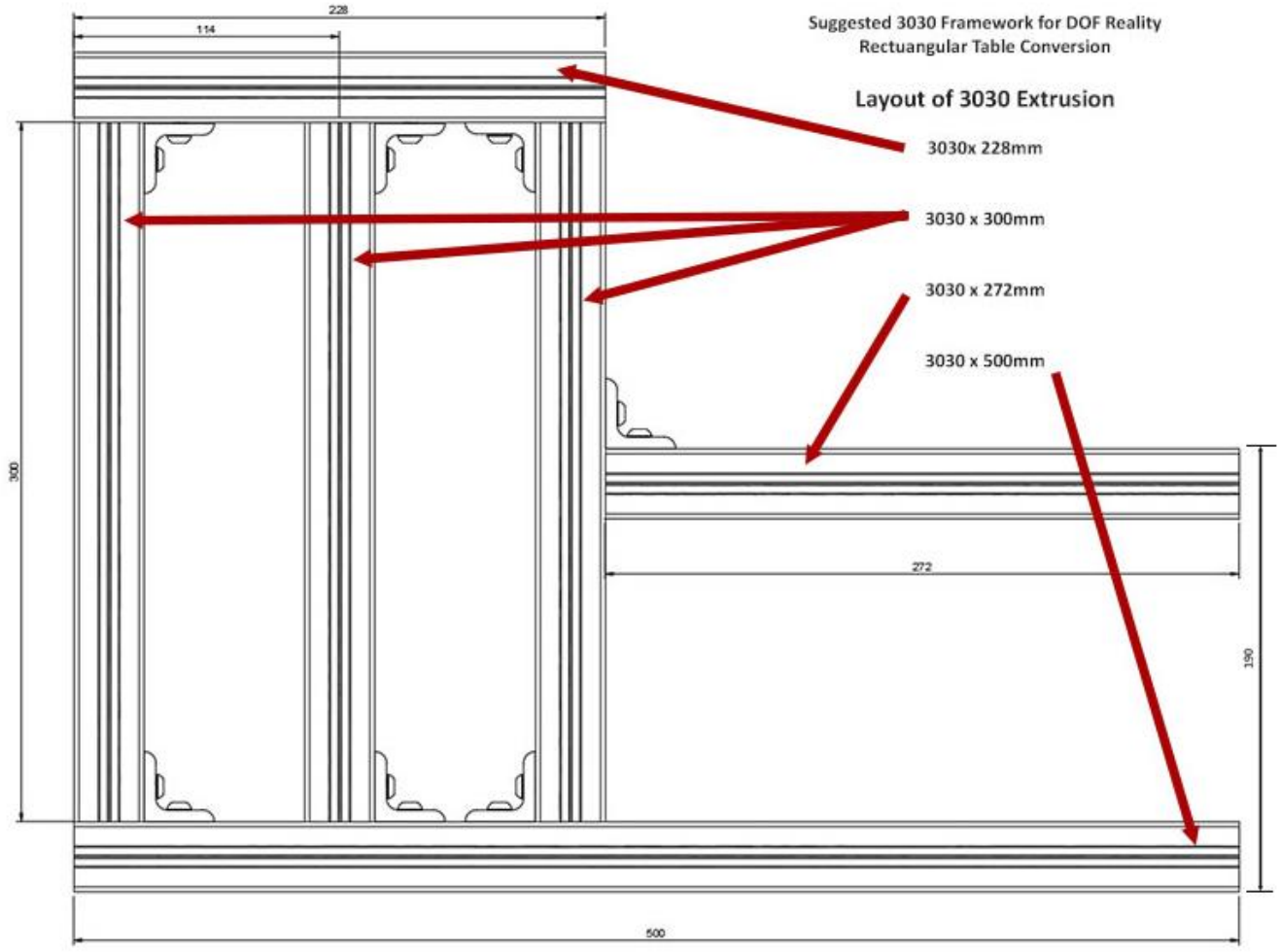
- QRUHD Base Mount & QRUHD FFB Yoke Kit under (DIY) Board with flitesim CLS-60 mounted to the top
- QRUHD / QRMax Base Support 40 with QRMax Base Mount 40 and QRMax Honeycomb Alpha/Bravo Quick Release Plate Kit (could be any QRMax supported Throttle)

3030 Framework

Shopping List 1

You will need to source the following products yourself as we do not provide them:

- 1x 500mm 3030[1] extrusion (cut to 228mm & 272mm see note[2])
- 1x 500mm 3030 extrusion (use full length)
- 3x 300mm 3030 extrusion (use full length)
- 7x 30mm 90° Angle Brackets
- 14x M6x14mm Button Head Allen Screws
- 4x M6x14mm CAP Head Allen Screws (to attach to the DOF Reality Table Uprights Framework)
- 4x M6 Washers (for the above)
- 18x M6 T-Nuts for 30-series extrusion (We would recommend Roll-In or Hammerhead T-Nuts as these can be inserted into the extrusion slots post assembly)



The layout of the components is shown above. Keeping the spacing accurate is crucial to be able to mount our QR components to the framework and for the framework to fit between the DOF Reality Table uprights.

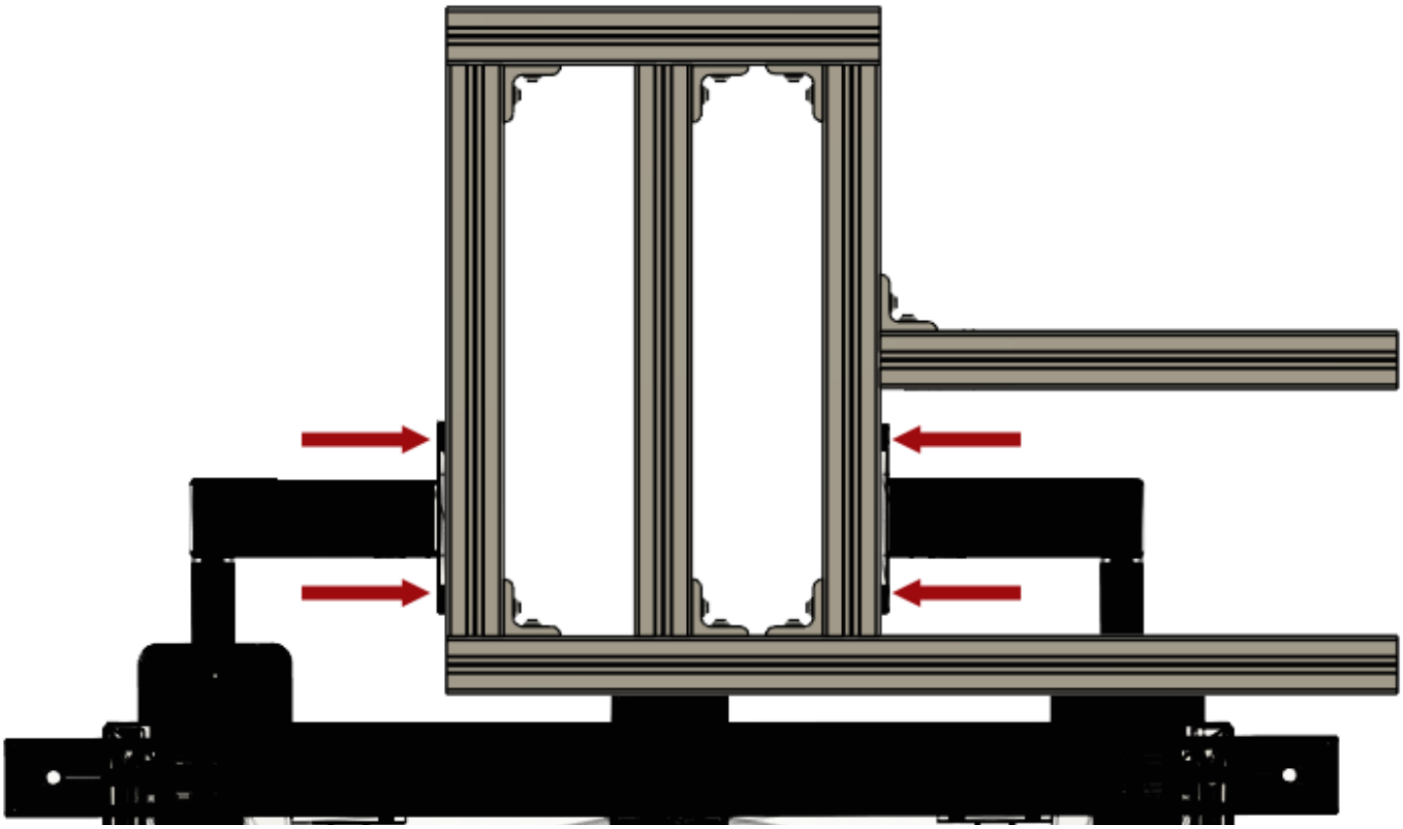
If you are using T-Nuts that need to be inserted before assembly, then take a note of the positions above of the screws for the Corner Brackets and the Wheel Table Brackets (shown on next page) and insert them first.

[1] 3030 extrusion requires 8mm slot width

[2] 228mm is the width of the DOF Reality Rectangular Table you are replacing with the framework. You could use pre-cut pieces at 230mm and 270mm for example as long as the 300mm pieces measure 228mm between the outer edges.

Attaching to the DOF Reality Rig

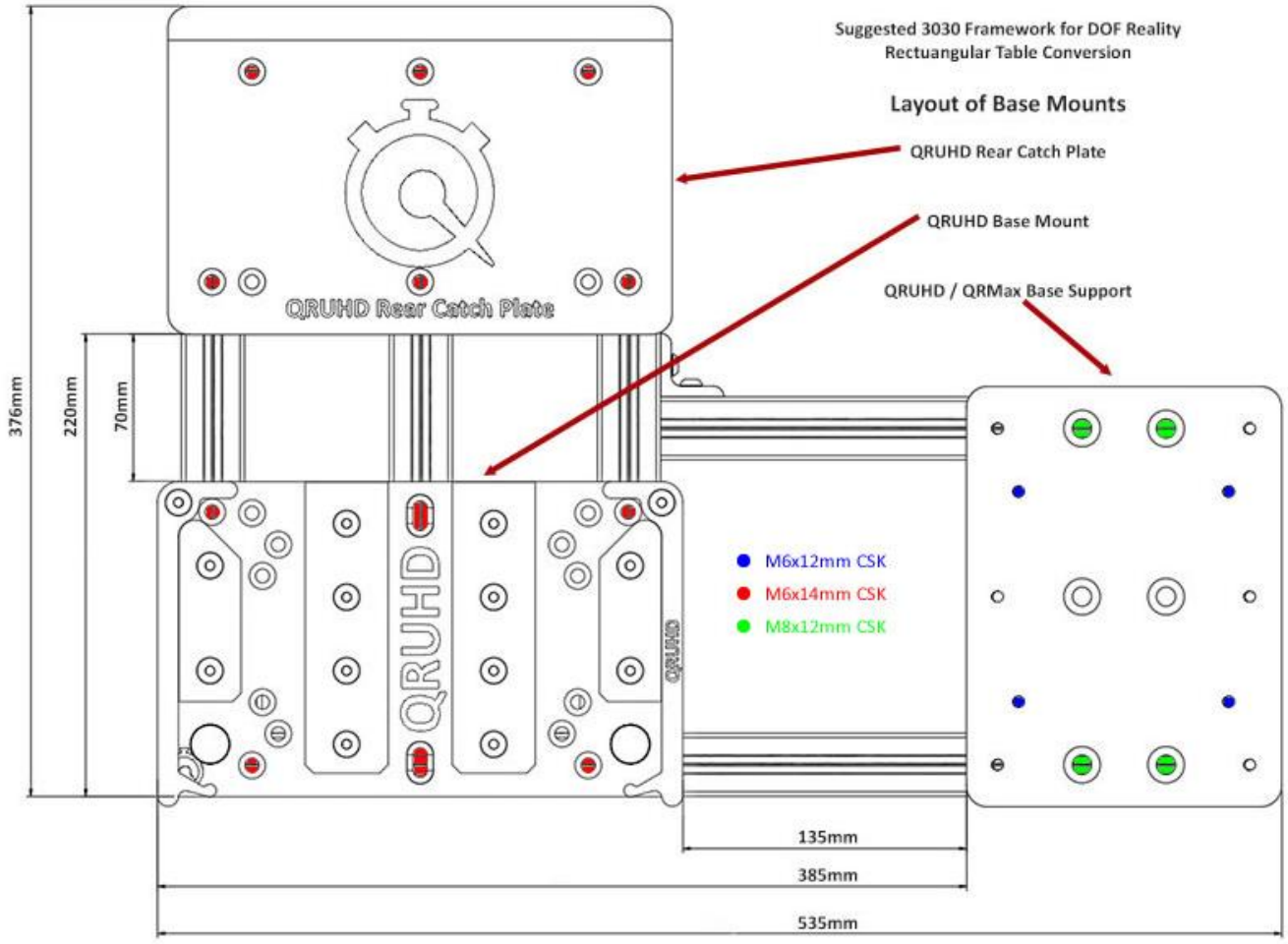
Once the Framework is constructed attach to the DOF Reality Rig where the Rectangular Wheel Table fitted previously, using the four M6x14mm CAP Head screws with washers into T-Nuts in the extrusion as shown by the red arrows below:



Shopping List 2

For this solution you will need the following parts from **QR4rigs**:

- 1x FFB Bundle Deal: QRUHD DOFR 30-Series Yoke & Throttle Kit (DIY) [3]
- 1x QRMax Throttle Quadrant QR Kit to suit your throttle quadrant



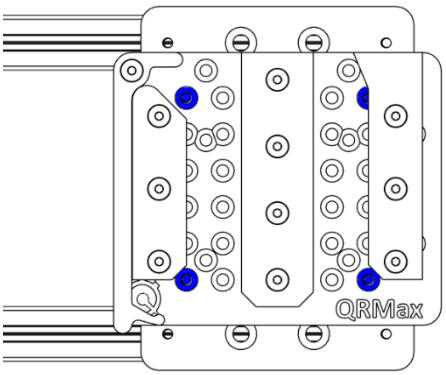
Refer to the diagram above for placement of each component on to the 3030 Framework.

Fix the QRUHD Base Mount and QRUHD Rear Catch Plate in place on to the extrusion using the M6x14mm CSK Screws and M6 T-Nuts provided.

Fix the QRUHD/QRMax Base Support in place on to the extrusion using the M8x12mm CSK Screws and M8 T-Nuts.

Fix the QRMax Base Mount to the Base Support using the M6x12mm CSK Screws provided (shown in blue).

You will have to remove the right-hand guide and calibrate the guides using the Calibration Tutorial



[3] Will NOT work with 40-series extrusion on a DOF Reality rig Wheel Table Extension due to hole spacings.

Spacing for QRUHD FFB Yoke QR Plate and rear Hook Plate

In order to use the QRUHD FFB Yoke QR Kit, you will need to mount your FFB Yoke on to a board of some sort. You will need to source this yourself. Refer to the individual drawings in the Appendix for suggested sizes of board for your Yoke.

A thickness of 6mm (1/4”) plywood or MDF will work for the fixing kit we supply with the QRUHD FFB Yoke Kit.

For 6mm Board, we supply M6x16mm Countersunk Screws that fix through your board and into captive nuts in the QR Plate kit. You will need to ensure when you drill your board, that you don’t countersink the holes too deep, just deep enough for the heads of the screws to be flush with the surface will be perfect.

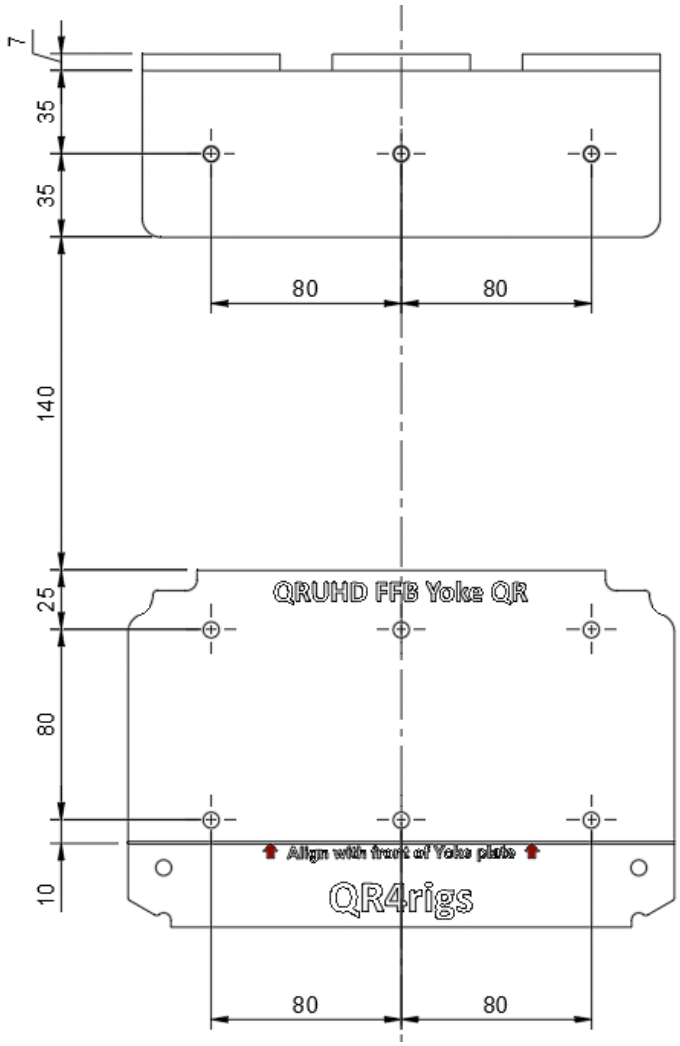
If you use a different thickness of board to mount your yoke to, you will need to source M6 Countersunk Screws of an appropriate length.

M6 Countersunk Screw Length = Board Thickness + 10mm

Hole spacing / Mounting dimensions are important for use with the suggested wheel table replacement/extension.

The required dimensions of the Countersunk holes you need to drill into your board are below.

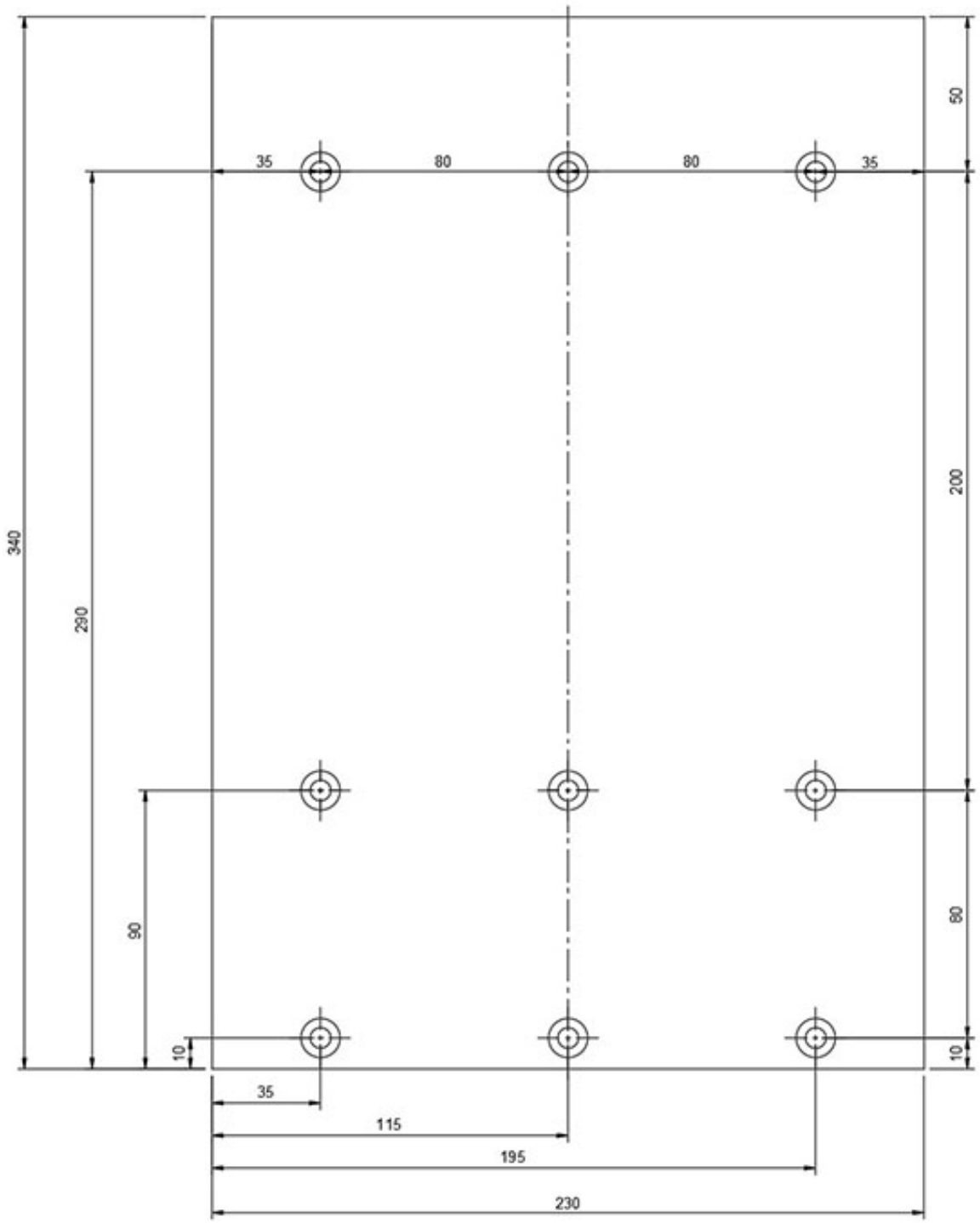
IMPORTANT. Align the edge of the board with the line on the QR Plate shown by the red arrows below. This will enable the use of the thumbscrews which will hold the QR Plate tightly in place once mounted.



Appendix

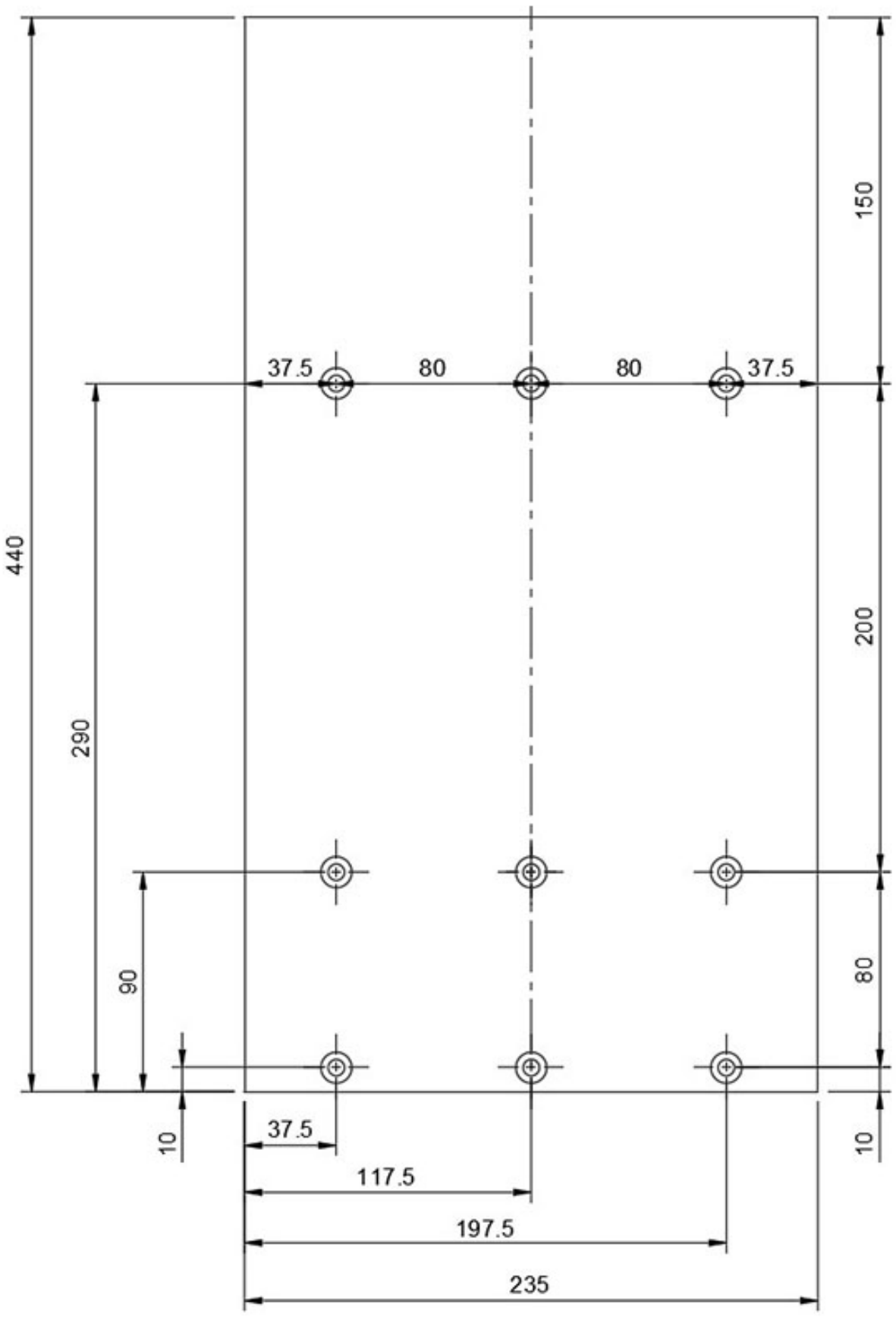
The following pages contain mounting diagrams and our recommendations for minimum board sizes for various yokes.

If your FFB or large format Yoke is not listed, please get in touch.



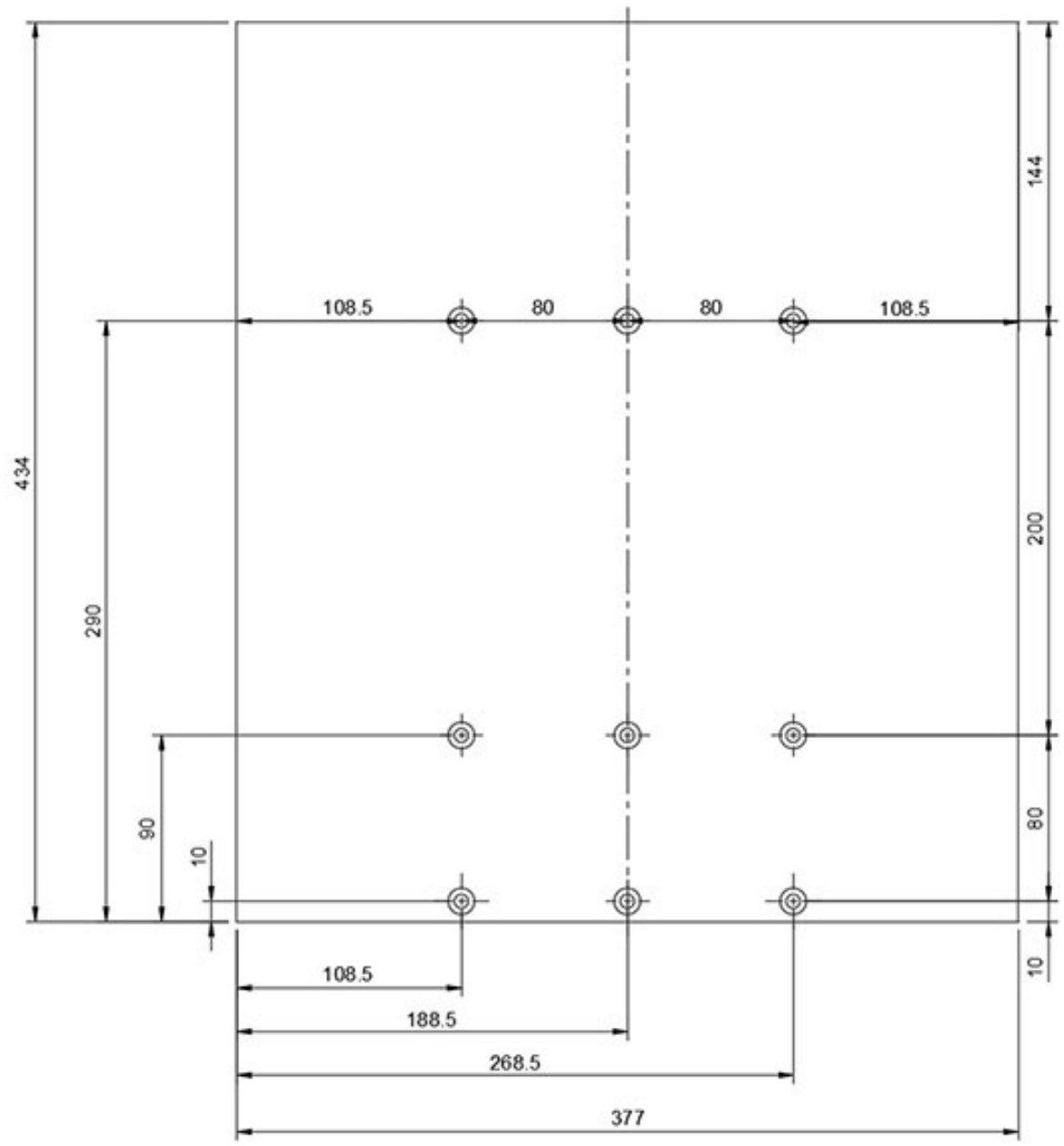
Brunner CSL-E NG

Suggested Minimum Board size = 340mm x 230mm



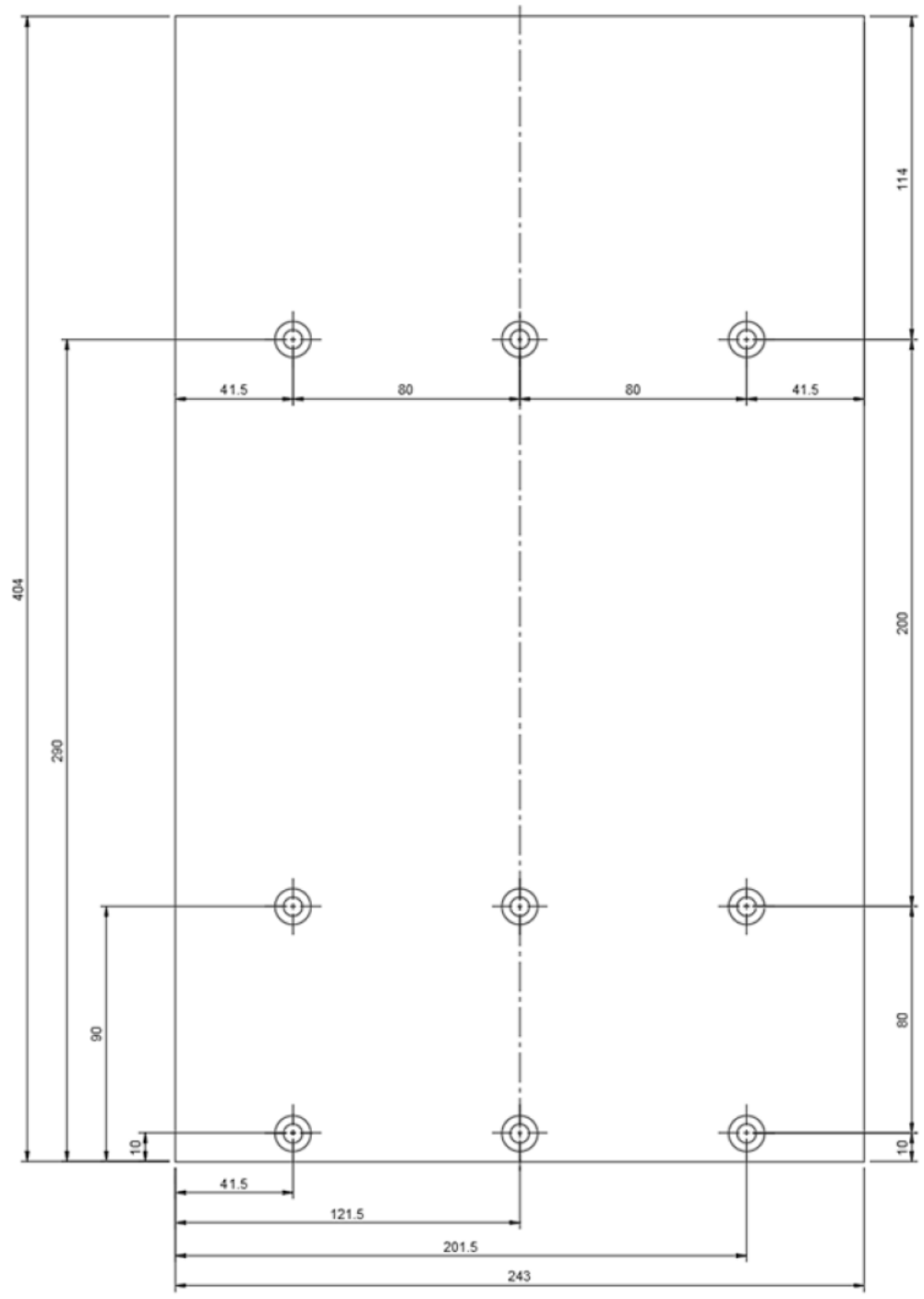
Brunner CSL-E MkII

Suggested Minimum Board size = 440mm x 235mm



Flitesim CSL-60/120

Suggested Minimum Board size = 434mm x 377mm



Moza AY210

Suggested minimum board size = 404mm x 243mm