



ART FOR THE EARS

Instruction Manual M2 Boats & Cheeks

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M2 BOAT KIT - FROM LEFT TO RIGHT: 2 front and back plates, 4 rails (2 w/inserts + 2 w/o inserts), 2 side mounting plates, screws & hardware and bottom plate



FRONT AND BACK PLATES



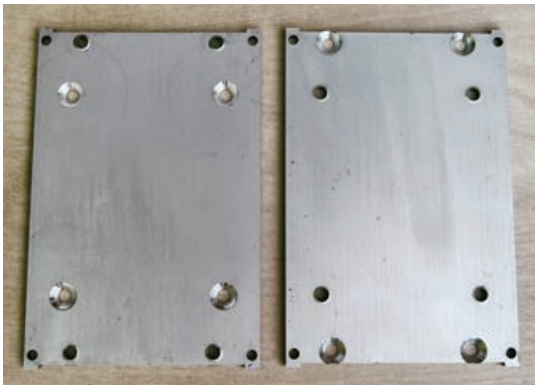
2 RAILS WITH THREADED INSERTS



2 RAILS WITHOUT THREADED INSERTS



BOTTOM PLATE



SIDE MOUNTING PLATES



M5mm SCREW



M2.5 X 6mm LONG SCREW



10-24 1/2" MACHINE SCREW



SQUARE NUT WITH M2.5 HOLE



BASIC TOOLS FOR INSTALLATION (LEFT TO RIGHT)

#2 robertston screwdriver (NA only)

Large Philips head screwdriver

Small Philips head screwdriver

Small pointy tool

ATTACHING THE FOUR RAILS ONTO THE SIDE MOUNTING PLATES

Assemble the four rails to one of the mounting plates.

Make sure the 4 recessed center holes on the mounting plate face inward

Attach the front rails of the boat first – these are the rails that modules screw into

Line up the countersunk hole with the 3rd t-slot (see profile of rail close up)

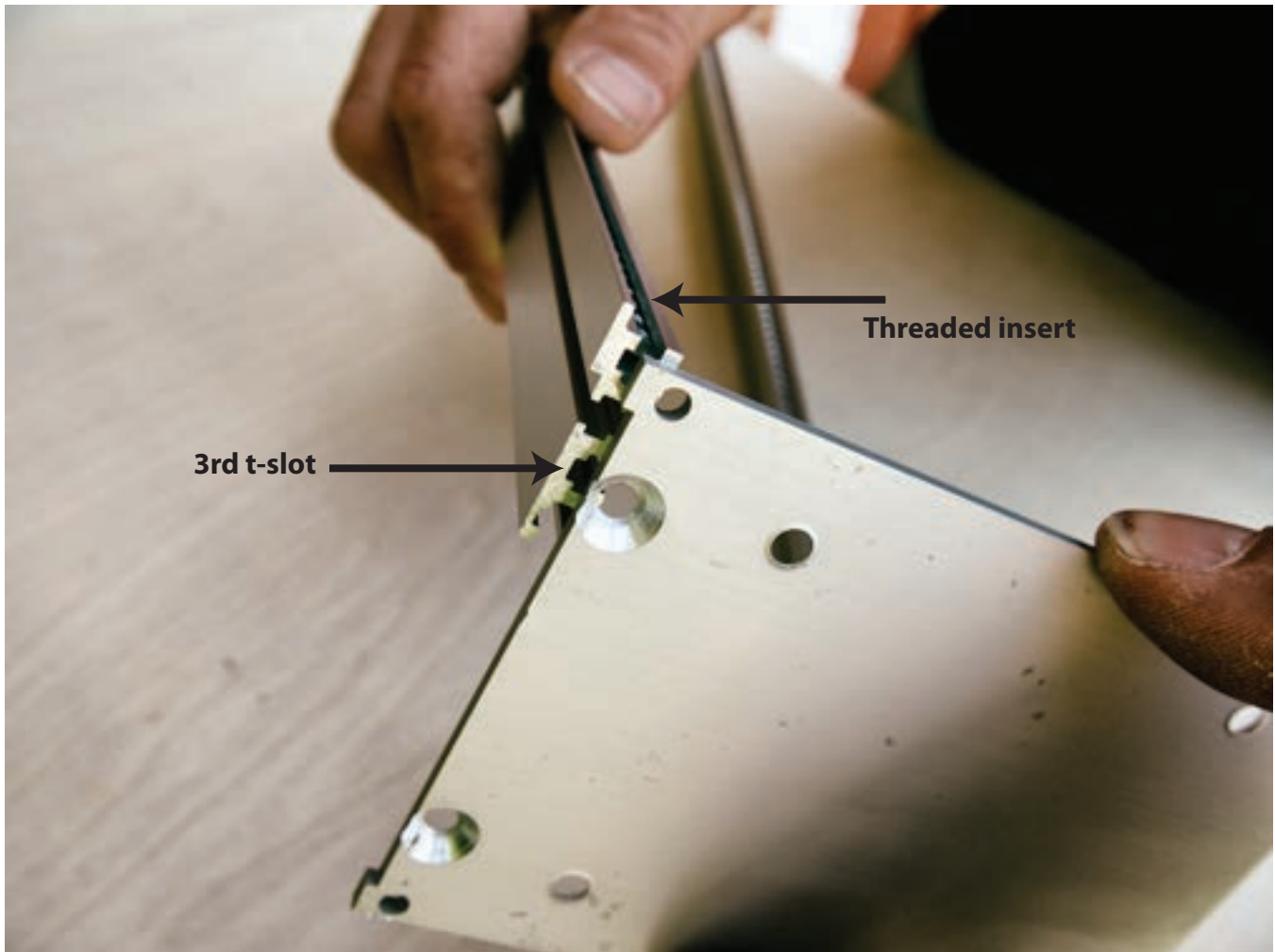
3rd t-slot



The ridges of the side mounting plate match the lip of the rail (see close up)

3rd t-slot

Threaded insert



Screw the plate to the rail using the robertson 10-24 screw (North America) & M5 philips screw (Europe). Keep attachment a bit loose until all assembly into side mounting plates is completed.

Rails do not come pre-threaded. Screws will cut threads upon first insertion.

DO NOT OVERTIGHTEN OR YOU WILL STRIP RAILS.

Attach the second front rail to the mounting plate – follow the instructions for the first rail.



STEP ONE

Attach the back two rails – these are the rails that do not have threaded inserts in them.



Four rails attached to the side mounting plate.
DO NOT ATTACH OTHER SIDE PLATE YET



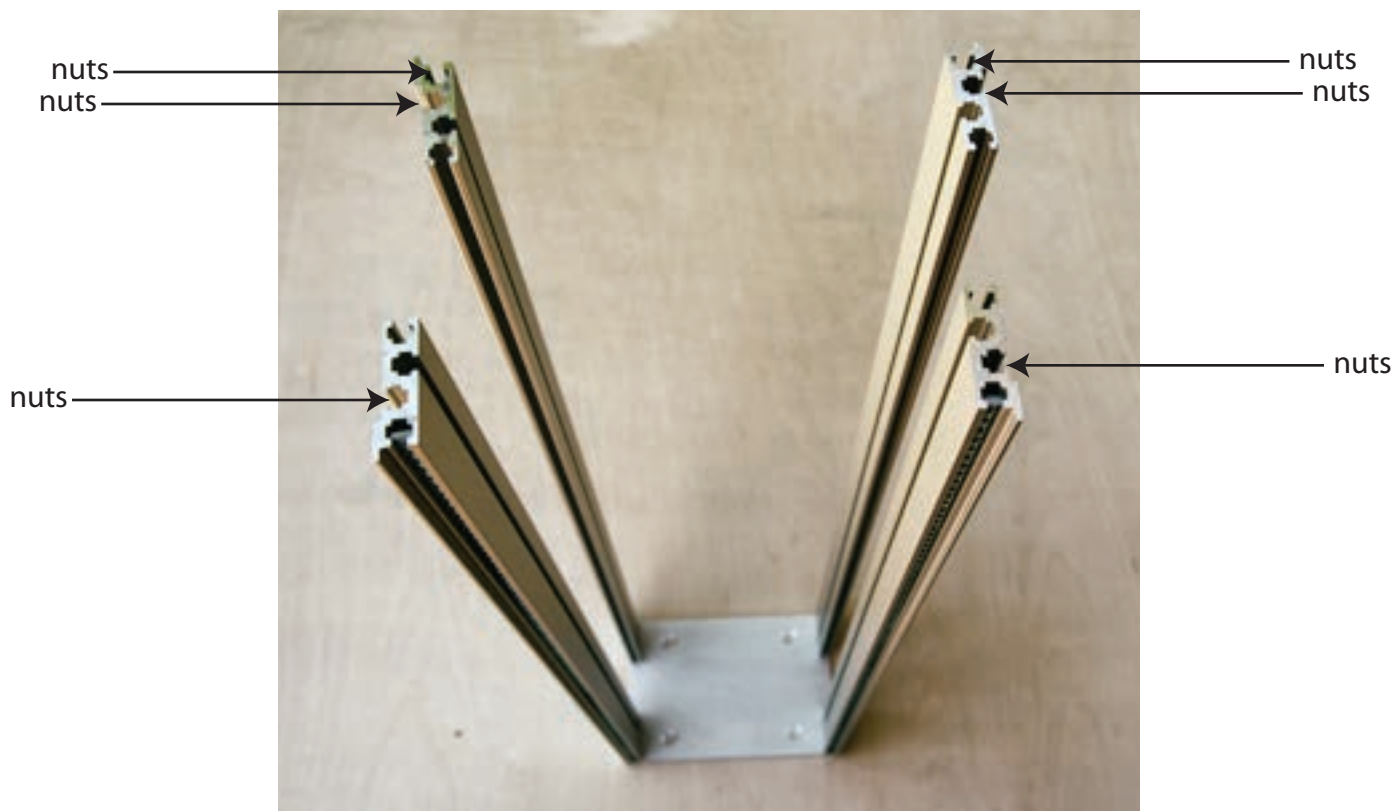
INSERTING THREADED NUTS INTO THE EMPTY T-SLOT.

Loading the square nuts into the empty t-slot rails. These nuts receive the screws so that you can mount the side and back panels onto the boat. There are 6 screws per side to match the 6 holes on each panel. Stand the half built frame up, so the mounted side plate is on the table and the rails are sticking up into the air ready to receive the nuts.



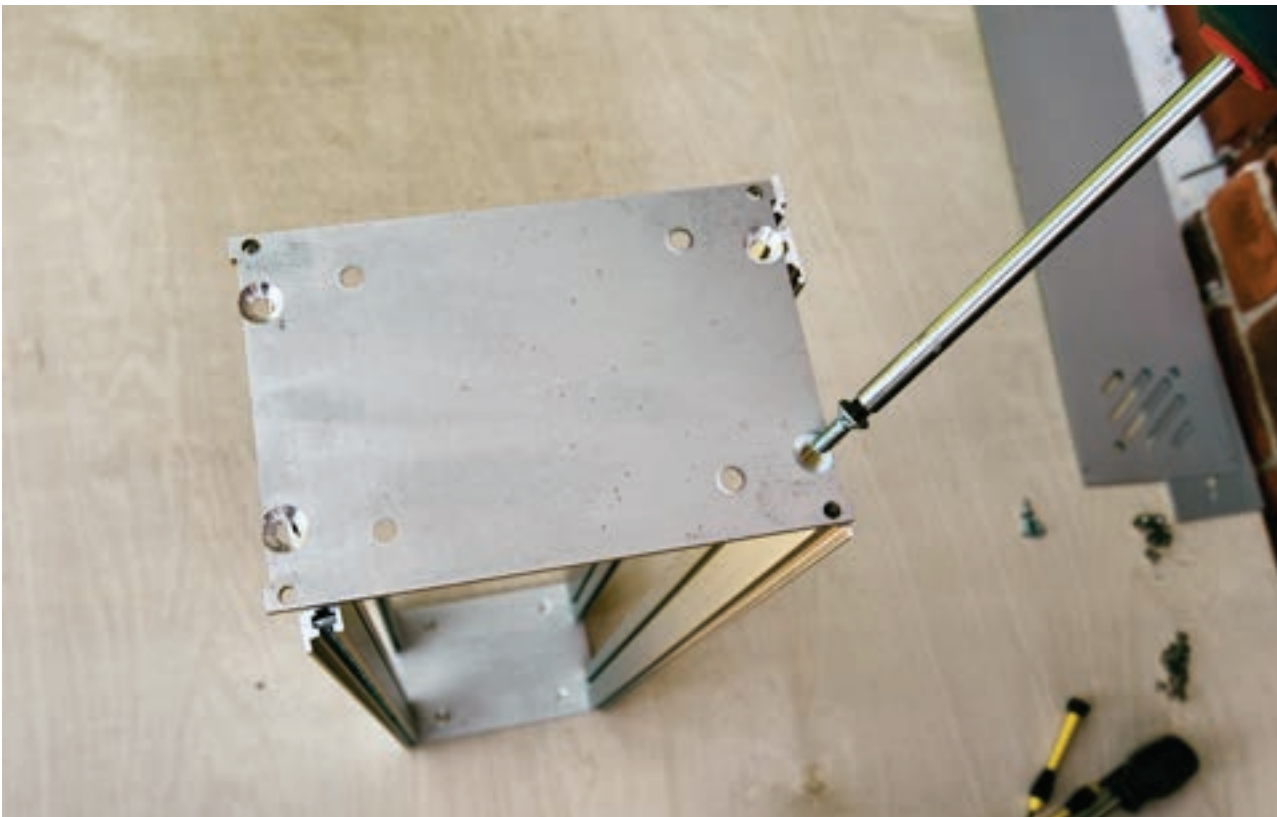
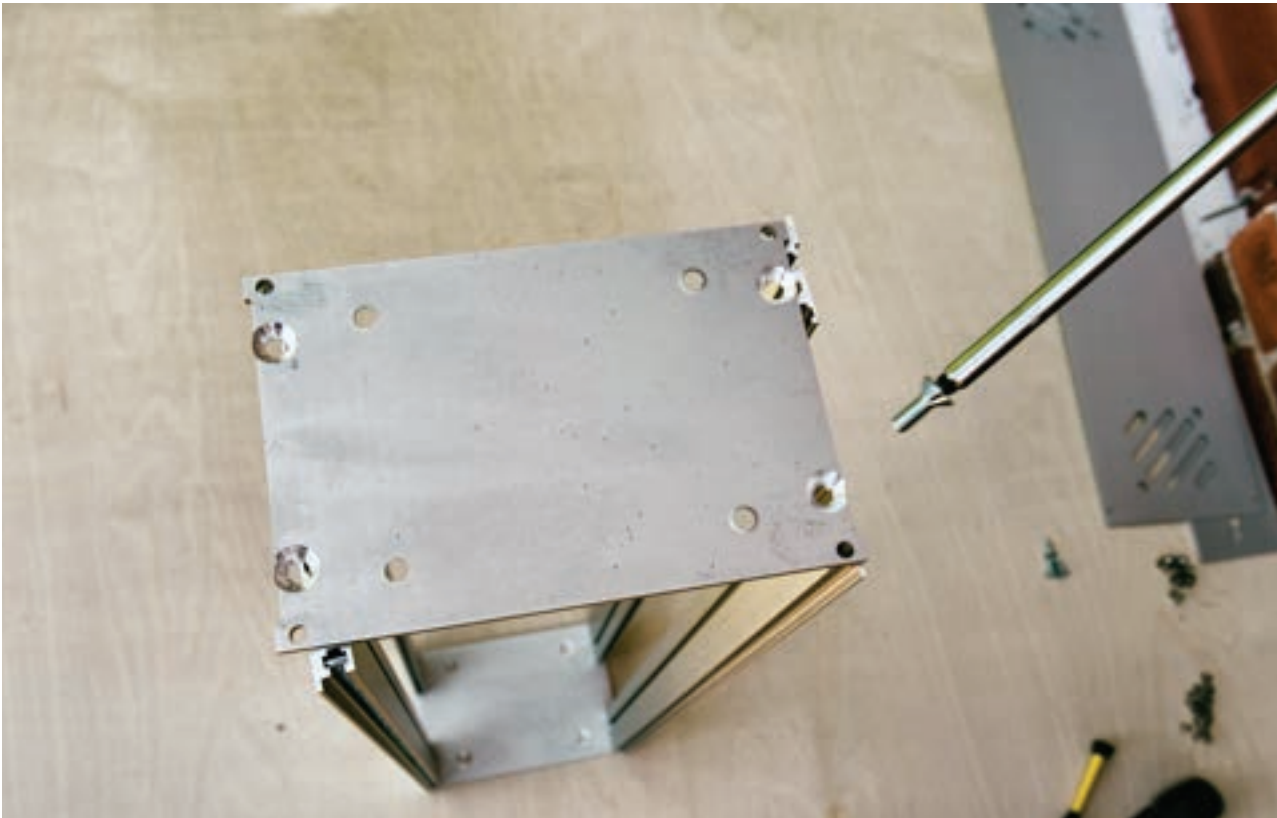
Each exterior t-slots gets 3 nuts. Drop these nuts down the slots that face out and let them slide to the bottom.

Each side that receives the bottom and side plates should look like this with 3 nuts facing out.



ATTACHING THE SECOND SIDE MOUNTING PLATE

Once all the nuts are in place the next step is to attach the second side mounting plate. Attach exactly as you did the first one being extremely careful to not let the nuts fall out.



ALIGNING THE NUTS WITH THE BACK PLATE HOLES.

Place the bottom plate onto the frame, so that its ends line up, but leaving one T-slot fully exposed so that you can see the three nuts that were inserted. Using your small pointy tool, slide each of the three nuts in line with the corresponding hole on the plate. Be very careful not to bump or shake the unit while doing this, as jarring movements will knock the carefully aligned nuts out of place.



ALIGNING THE NUTS WITH THE BACKPLATE HOLES

When all three nuts are in line with its respective hole, position plate so that the other T-slot is exposed and do the same with the other three nuts.



SCREWING SCREWS INTO THE HOLES TO ATTACH BACK AND SIDE PLATES

Once all six nuts have been lined up with its hole, lay panel in place so that all holes in plate are directly above the 6 nuts that were just set in place. You are now ready to insert 6 m2.5 screws per panel. **DO NOT FULLY TIGHTEN SCREWS** until all screws have been treaded into its corresponding nut. If you notice that a screw is slightly off center below its hole in panel, you can slide the whole panel carefully over the nut so that the hole will now align and get thread partially screwed into nut. then slide panel back into its place being centered on frame and remain placing screws into the nuts.



Once all screws have been threaded into their nuts, you can now fully tighten each screw.





ATTACHING THE BOAT TO THE CHEEKS

These directions are universal for the 3u, 6u & 9u cheeks.

Attaching end cheeks using the Philips M5 screws.
Lay the cheek on the table with it's holes facing up.



Carefully screw in the M5 screws into each threaded insert of the cheek*, making sure it remains loose for maximum ease of alignment, and wait until both boats are attached before tightening screws fully. Repeat the same process with the second boat onto the cheek using the other four holes which remain. Once all the screws are loosely in place for both boats, you can tighten up the cheek to the boats. *be careful not to 'crosstread' screw into the insert. If the screw seems difficult to spin re-adjust the alignment until it spins in naturally.



Repeat these steps for for the second cheek, standing the two boats at the same time, onto the cheek.



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This is what a completed 6u case looks like and there are many ways power can be arranged into case, with panel mounted power supplies are the easiest option. As well there are holes on the back of case which will receive a barrel connector if you choose to run your power through the back of the case.

If you decide you need a larger case you won't have to purchase a whole new one. Purchase one or more new boats and a cheek set that will accommodate the boats that you have. At the moment our maximum cheek accommodation is our 12u system which holds 4 boats.

Thanks for purchasing our product. We hope you have as much fun using it as we had making it!

