

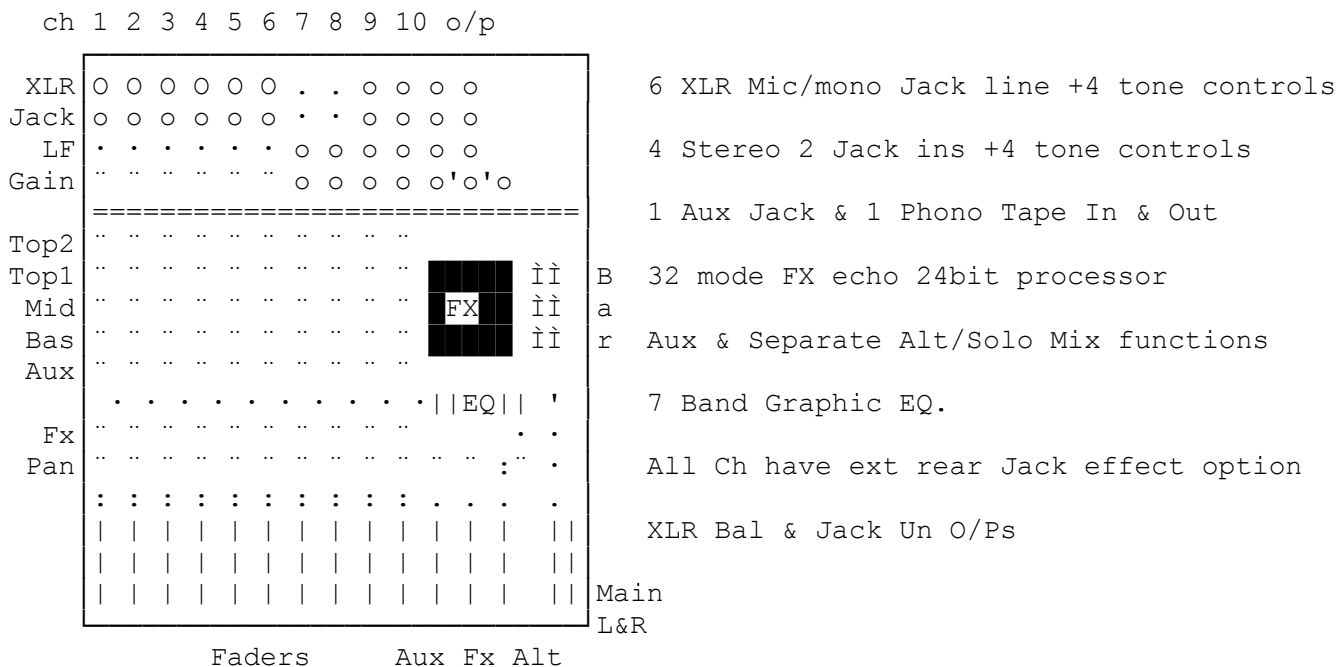
Mixer Eurorack1804X/ItMix PM184X

By G8MNY

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(8 Bit ASCII graphics use code page 437 or 850, Terminal Font)

I have worked on both of these Behringer 10ch AF Mixers, "T Mix PM184X" has a plastic carrying handle & a huge 375W/ch (4U) PA amp built in underneath. The "Eurotrack 1804X" is a mixer only & has a separate mains transformer.



The 1st Mixer+Amp was not working properly, it had a broken LS screw post & a very noisy mixer. On painstakingly opening it up, literally 100s of knobs jack nuts & screws, (1 needed drilling out) to release the large PCB. It soon became obvious that a CUP OF COFFEE had done it in. (Always power off/remove batts if this happens to you!)

I photographed the PCB to show up the many small corrosion points in detail on a PC screen & see all Surface Mount bits zoomed in to more easily check it out.

After much tinkering I found a SM dual Op amp IC with a completely corroded away +ve pin. At this point I gave up as un-reparable for a few years.

At a Ham rally I spotted the similar 1804X "mixer only" version, for £20 less its external transformer, so I bought it, & made up a box & transformer for it. The mixer had a very bad 1st ch Mic slider. So I stripped this mixer down too, unsoldered & removed the slider, opened it up, re-tensioned the wipers & put it all back together. All tested OK.

I did not want to wreck the now "good mixer", so I went back to the Mixer+Amp again. Removing the duff SM IC I had previously found, but the loud crackle noises were still there, & I also spotted an overload/PFL LED would not light. Testing further I found another SM dual Op amp IC with no +ve rail, or to the that ch LED. This I traced to a tiny plated through PCB track bridge failure under a component, so I pieced it out on the non component side with 2A fuse wire. All noise gone.

Now to the duff SM IC, filing it's corner off, I managed to expose enough metal (0.2mm) to tin & solder 2A fuse wire to it. Putting it back in, a steady hand was needed for SM ICs! Hey Presto it all worked too.

Back to the last bit, the PA Amp's broken dual post LS high current screw post, I made a replacement part from an old similar one & made it fit.

To stop this Mixer "coffee fault" in the future, to both mixers, I added felt rings (J Cloth washers) on each of the 79 pot shafts & glued a cloth to the cover for the 15 sliders holes & sloted them.

Before closing up, I drilled out & re-tapped the spot welded collar's seized screw I had had to drill off, & replaced the screw for a "Proper Job". Also all the screw threads were greased up to enable easier re-assembly & undoing next time!

Then it was just the matter of the 100s screws, nuts & washed clean the knobs, etc. Then do a good test out. A very hot 2x 4R large dummy load with the 375W/Ch amp. :=)

It has now been used at a function quite reliably, so eventually it was well worth all the hassle in the end.

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73 de John G8MNY @ GB7CIP