

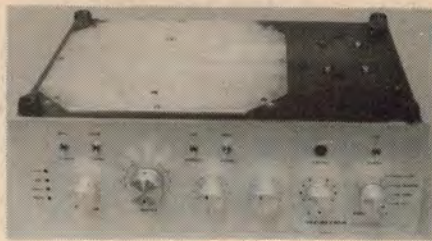
# Playmaster Mosfet Amplifier

I recently purchased a kit for the Playmaster Mosfet Amplifier and constructed same.

Before commencing construction however, I cut out a section on the underside of the chassis and this has proved invaluable. I am enclosing two photographs, which are self explanatory. It was quite a simple job; however, choosing a suitable material for the cover plate turned out making the chassis stronger and lighter, as I used 16G duralium. This material is light, will not bend, and adds strength to the job. I used nuts and bolts to secure the corners of the PC board, countersunk head, but this was not necessary as the section can be cut out to miss these holes. The cover plate is 10mm larger than the cut-out section.

I tried four self-tapping screws firstly, but settled for eight. There are also two stand-offs in the centre of the cover plate to give further support to the PC board.

I stated before that this innovation proved invaluable, and the reason for this is that I have had to change the BC549 transistors. It was a simple matter to carry out this work. After I had built the amplifier, I noticed that one channel was hissing, whereas the other was not so evident. From various tests it was evident that the trouble was with Q104 and 105, so I decided to remove them



and give them a gain test with a digital multimeter.

Q105 had a gain of 246, and Q104 had a gain of 506. As the gain of these types is rated at 200-800 I decided to purchase 20 of these and give them gain tests. When all tests were complete, I came up with six transistors with the gain figures between 500 and 530. I then replaced the six transistors at Q3, 103, 4, 104, 5

and 105 and this then gave me a very quiet amplifier.

I can honestly say that I have never heard my records, and tapes sounding so fine, and I "dips me lid to ya" for a really great amplifier. All who have heard the results to date have marvelled at the clarity and wish they had one.

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