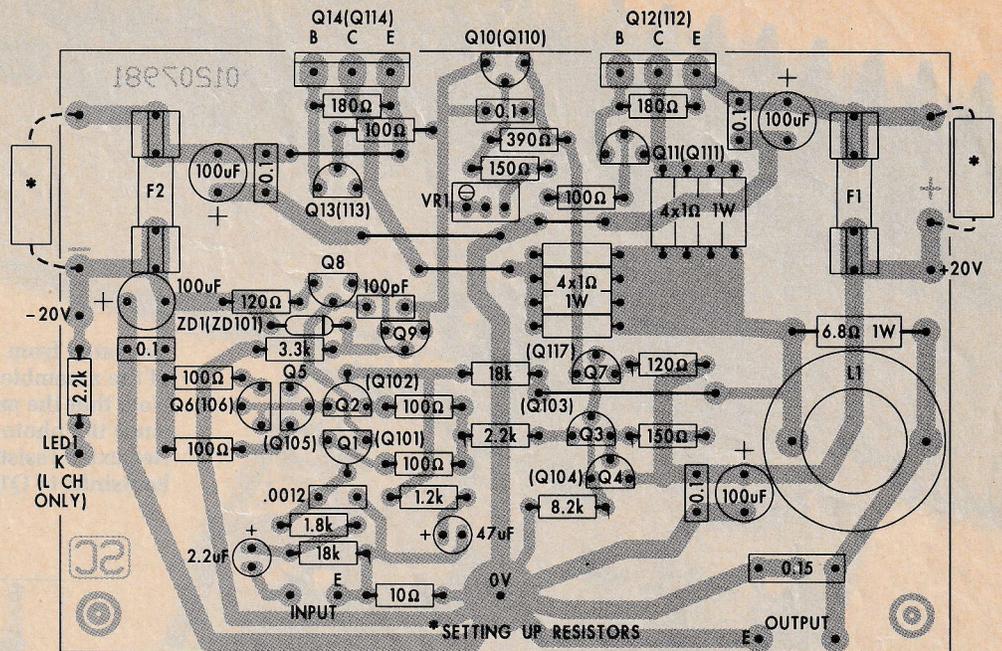


Fig.8: this is the amended PC component overlay for the amplifier module. Take care to ensure that all transistors are correctly oriented and note that transistors Q11 and Q13 should be fitted with finned heatsinks to keep them cool.



be drilled and cut as necessary.

Fig.7 shows the wiring of the power supply. All the mains supply wiring must be run in 250VAC-rated hookup wire and all wiring terminals should be sleeved with heatshrink sleeving to prevent accidental contact.

The three-way DC output cable was run in a short length of 250VAC three-core cable, terminated directly to the PC board at the power supply end. The other end of the cable was fitted with a 4-way plug which mates to a socket on a cable from the power amplifier.

Once all your assembly work is finished, check it carefully against the diagrams of Fig.3, Fig.4 and Fig.7. Then apply power and check that the

outputs are +20V and -20V DC. Then you can turn your attention to the amplifier chassis.

Amplifier assembly

Last month we discussed the assembly of the amplifier PC boards. In Fig.8 we show the amended PC board layout which includes the 10Ω input earthing resistors referred to above. Finned heatsinks must be fitted to the TO-92 driver transistors, Q11 & Q13.

Fitting these heatsinks is not easy. They are made of springy beryllium-copper to fit TO-18 metal can transistors but they will fit TO-92 transistors provided they are opened-up a little as they are fitted over the plastic encapsulation. We were able to do this

Table 2: Capacitor Codes

Value	IEC Code	EIA Code
0.15μF	150nF	154
0.1μF	100nF	104
.0012μF	1.2nF	122
100pF	100p	101

with the aid of a pair of long-nosed pliers. The devices we used are supplied by Farnell Electronic Components Pty Ltd (Cat No. 170-061).

Fig.10 shows the chassis wiring diagram for the amplifier. It must be followed exactly, in order to obtain the claimed performance. You should look

Table 1: Resistor Colour Codes

No.	Value	4-Band Code (1%)	5-Band Code (1%)
4	18kΩ	brown grey orange brown	brown grey black red brown
2	8.2kΩ	grey red red brown	grey red black brown brown
2	3.3kΩ	orange orange red brown	orange orange black brown brown
3	2.2kΩ	red red red brown	red red black brown brown
2	1.8kΩ	brown grey red brown	brown grey black brown brown
2	390Ω	orange white brown brown	orange white black black brown
2	330Ω	orange orange brown brown	orange orange black black brown
4	180Ω	brown grey brown brown	brown grey black black brown
4	150Ω	brown green brown brown	brown green black black brown
4	120Ω	brown red brown brown	brown red black black brown
12	100Ω	brown black brown brown	brown black black black brown
2	10Ω	brown black black brown	brown black black gold brown
16	1Ω	brown black gold gold	brown black black silver brown