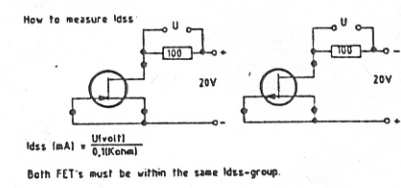
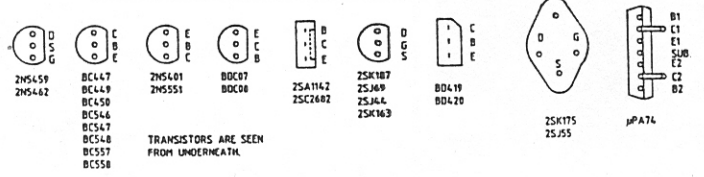


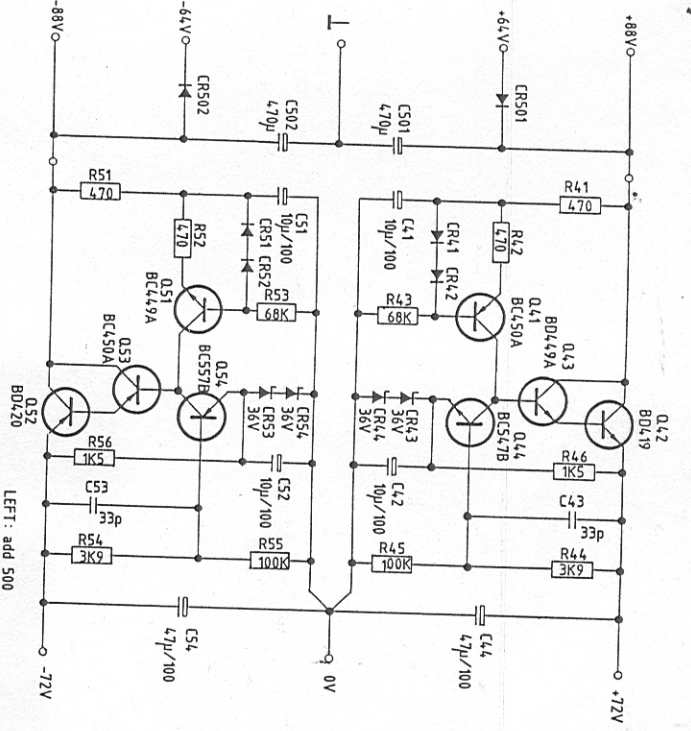
When Q103/104/203/204 have to be replaced, the following must be done. Use the table below to find the combination of the transistors' Idss groups and source resistors. Resistors marked * is dependent on Idss of the field-effect transistors.

Idss (mA)	2N5458, 2N5461	2N5457, 2N5462	2SK107 E
	R131/221* 1k	R124/224 R127/227	R131/231+220Ω R124/224 *
5-6	120 -	220	15 Ω
6-7	180 -	470	22 -
7-8	270 -	680	27 -
8-9	330 -	1k	33 -
9-10	390 -	1k2	39 -
10-11	470 -	2k2	47 -

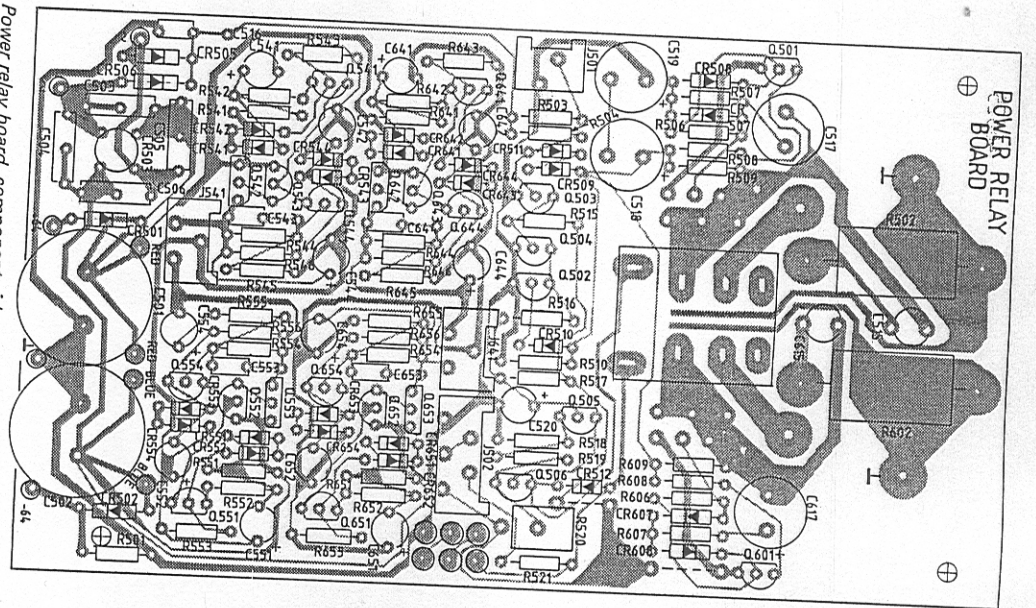
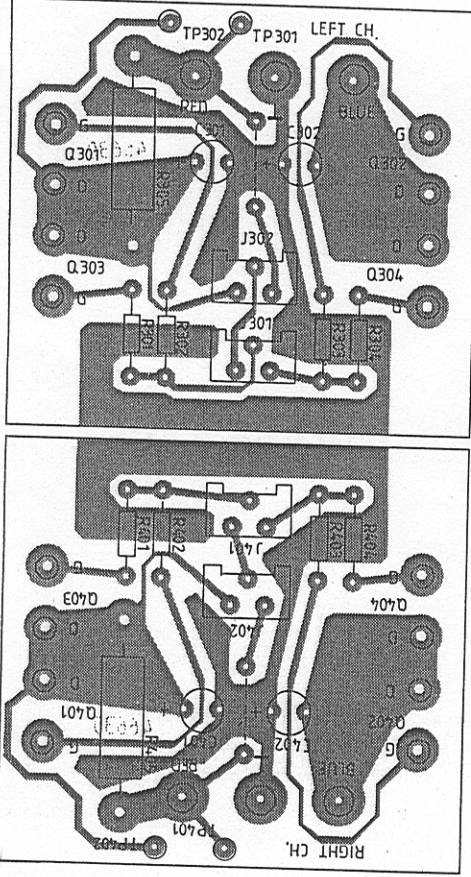


- ADJUSTMENTS**
- Adj. "Distortion unloaded", R131/231 to min. distortion, 12V output, 0.004% max. distortion. The voltage across R150/250 should be 2.65V ± 0.45V. All measurements must be made with a probe having minimum 5 kohms resistors in both terminals.
 - Connect two LED's in antiparallel to J206. Adj. "Zero DC" R115/215 until both diodes turns off. DC at speaker output should be within ± 50mV DC.
 - Adj. "Distortion loaded", R153/253 to min. distortion at 12V across 4Ω, 10Hz, 0.005% max.
 - Adj. "Quiescent current", R164/264 to 30 mV across R505/605.
 - Adj. "Peak clipping" R137/237 to min. light in LED at slight clipping.
- Check the adjustments after 15 min. warm-up time.
- * Components with this marking has 1% tolerance

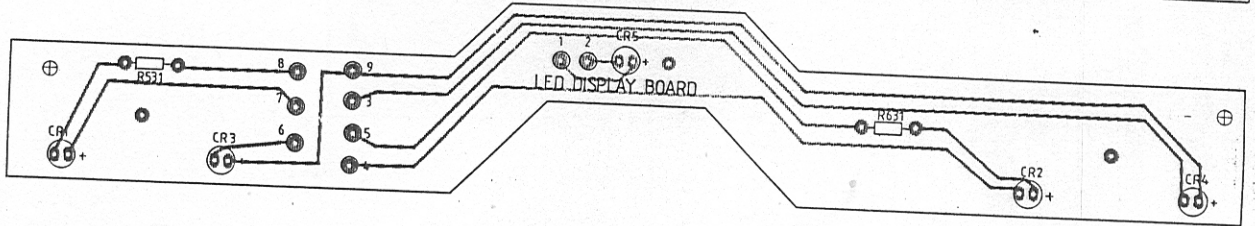




LEFT: add 500
RIGHT: add 600



Power relay board, component side



LED display board, component side