

No.	Description	References	Value	Quantity
1	Unpolarized capacitor	C6 C15	100nf 63v	2
2	Unpolarized capacitor	C3 C5 C12 C14	100pf 50v	4
3	Polarized capacitor	C1 C8	10uf 63v	2
4	Unpolarized capacitor	C23 C24	220pf 50v	2
5	Polarized capacitor	C2 C11	220uf 16v	2
6	Polarized capacitor	C19 C20 C21 C22	4700uf 50v	4
7	Polarized capacitor	C4 C13	47uf 63v	2
8	Bridge Rectifier	D1	GBU1010	1
9	LED 5mm	D2 D3	RED LED	2
11	Transformer Connector	J3	24 0 24 VAC	1
12	Signal input Connector	J2	L G R in	1
13	Speaker Ground Conn.	J6	SPK GND	1
14	Speaker Connector	J4	SPK L	1
15	Speaker Connector	J1	SPK R	1
16	Wire Jumper	JP1 JP2 JP3	Wire Jumper	3
19	2SA1943 / NJW0302	Q7 Q15	2SA1943	2
20	2SC5200 / NJW0281	Q8 Q16	2SC5200	2
21	BC547	Q1 Q2 Q4 Q9 Q10 Q12 Q17 Q18	BC547	8
22	BD139	Q5 Q13	BD139	2
23	BD140	Q3 Q6 Q11 Q14	BD140	4
24	Resistor 5 Watt	R13 R14 R28 R29	0E22 5w	4
25	Resistor 1 Watt	R15 R30	10Ω	2
26	Resistor 1/2w	R9 R10 R24 R25	3K3	4
27	Resistor 1/4w	R1 R5 R7 R16 R20 R22	1K	6
28	Resistor 1/4w	R8 R23	220Ω	2
	Resistor 1/4w	R4 R19	22K	2
29	Resistor 1/4w	R2 R6 R17 R21	22K / 33K*	4
30	Resistor 1/4w	R11 R12 R26 R27	100Ω	4
31	Resistor 1/4w	R3 R18 R31 R39	470Ω	4
32	Preset	RV1 RV2	2K	2

\* - 22K - Default Gain, 33K - High Gain

### Instructions

**Use good quality Soldering Iron and Solder wire. after soldering components, please check for solder overflow / dry / Shorted solder joints or the amplifier will not work properly.**

Fit Power Transistors and Bridge Rectifier with insulator on suitable Heat sink.

Before powering on for the first time check for any short circuits between power supply, input, output and Ground with Multimeter.

Apply power without any output load (Speakers) and input signal connected.

If there is no Bang or Smoke and nothing is getting too hot or burning, Eureka.

Now connect the Speakers and power on, there should be no humming or Noise. if humming or noise is audible, recheck with circuit diagram.

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