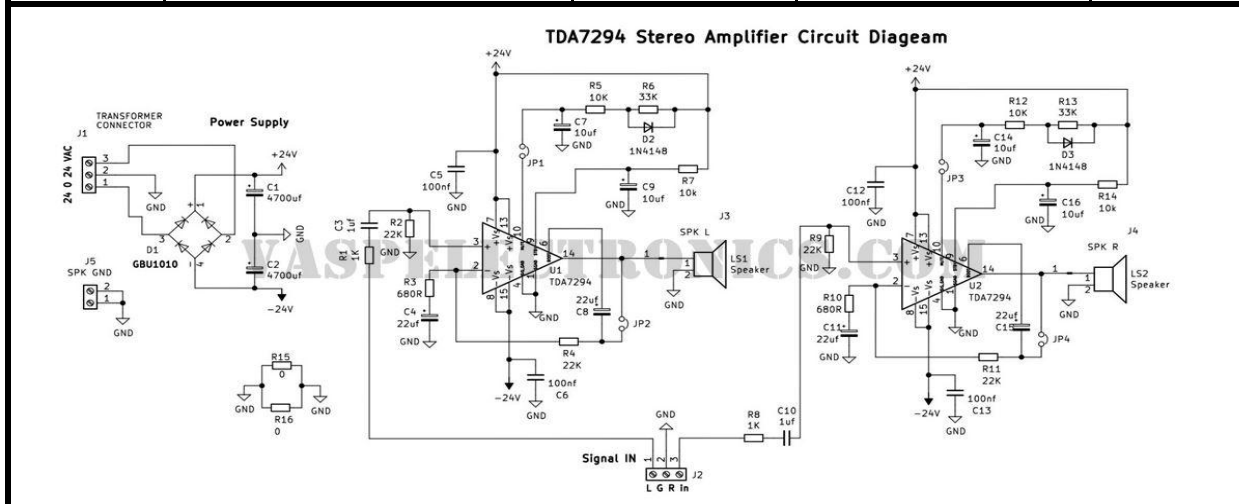


TUSKER-X2 TDA7294 Stereo Amplifier List of Parts (BOM)

Sr.no.	Description	References	Value	Quantity Per PCB
1	Unpolarized capacitor	C5 C6 C12 C13	100nf / 100v	4
2	Unpolarized capacitor	C3 C10	1uf / 50v	2
3	Polarized capacitor	C7 C9 C14 C16	10uf / 50v	4
4	Polarized capacitor	C4 C8 C11 C15	22uf / 50v	4
5	Polarized capacitor	C1 C2	4700uf / 50v	2
6	Diode - 1N4148	D2 D3	1N4148	2
7	Bridge Rectifier 10 Ampere	D1	GBU1010	1
8	Transformer Connector	J1	24 0 24 VAC	1
9	Signal Input Connector	J2	L G R in	1
10	Speaker - Connector	J5	SPK GND	1
11	Speaker + Connector	J3 J4	SPK L / SPK R	2
12	Wire Jumper / 0 Ω Resistor	JP1 JP2 JP3 JP4	Wire / 0Ω	4
14	Wire Jumper / 0 Ω Resistor	R15 R16	Wire / 0Ω	2
15	Resistor, small symbol	R3 R10	680R	2
16	Resistor, small symbol	R1 R8	1K	2
17	Resistor, small symbol	R5 R7 R12 R14	10K	4
18	Resistor, small symbol	R2 R4 R9 R11	22K	4
19	Resistor, small symbol	R6 R13	33K	2
20	TDA7294 / TDA7293	U1 U2	TDA7294	2



Instructions

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

Securely fit amplifier IC with insulator on suitable Heat sink.

Before powering on for the first time check for any short circuits between power supply, ground input and output 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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