

**FOX2 TDA2030 Stereo Amplifier Bill of Materials**

No.	Description	References	Value	Quantity Per PCB
1	Unpolarized capacitor	C5 C6	104J 50v	2
2	Polarized capacitor	C3 C4	1uf 50v	2
3	Polarized capacitor	C1 C2	2200uf 25v	2
4	Unpolarized capacitor	C9 C10	224J 50v	2
5	Polarized capacitor	C7 C8	22uf 50v	2
6	3A Rectifier Diode	D1 D2 D3 D4	1N5408	4
7	Screw terminal, 01x03	J1	AC - 0 - AC	1
8	Screw terminal, 01x03	J2	Lin - G - Rin	1
9	Screw terminal, 01x03	J3	Lout G Rout	1
10	Wire Jumper	JP1, JP2, JP3	Wire	1
13	Resistor	R7 R8	1R	2
14	Resistor	R1 R2 R5 R6	22k	4
15	Resistor	R3 R4	680R	2
16	TDA2030, TDA2050, LM1875	U1 U2	TDA2030	2

**Note - Working Voltage of all capacitors should be greater then Power Supply.**

- Always use good quality 25 - 35 watt soldering iron. High heat / high wattage soldering iron
- Start by first soldering small components like Resistors, diodes, Jumpers, capacitors.
- After soldering all the components recheck them with circuit diagram.
- Check for any dry solder joints and any non connections.
- Make sure Correct polarity of all Polar Capacitors and Semiconductors.
- Securely mount Power Amplifier IC with insulator on suitable Heat sink.
- Always use good quality heat sink paste or thermal pads between Components and heat sink.
- Before powering on for the first time check for any short circuits between power supplies, ground and output.
- 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 load ( Speakers ) and power on, there should be no Noise or Hum without input signal, if there is power down and recheck.
- Now apply the Input signal and enjoy

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