



C5200 A1943 TDA2030 Amplifier DIY Homemade

Posted on December 9, 2019 | By Tronicspro | 15 comments

In this video i am showing, how to make an ultra bass 100 watts mono class-AB powerful amplifier using C5200 A1943 TDA2030 transistors. Combination of C5200 A1943 Amplifiers are widely used for high gain. I demonstrated the circuit with 18 volts dc power supply of 2.5 amperes but you can use 12 volts to 18 volts dc. I used 4 ohms 80+ watts speakers which provided a greater sound.



Heavy Bass Powerful Amplifier of c5200 A1943 & TDA2030 with Volume Bass Treble – DIY Homemade class A

Circuit Diagram

Following is the Circuit Diagram of C5200 & A1943 Amplifier with the combination of TDA2030 IC.

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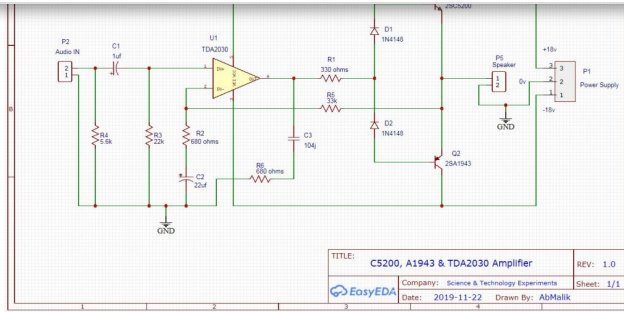


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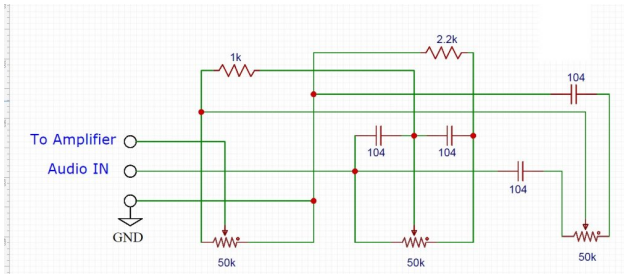


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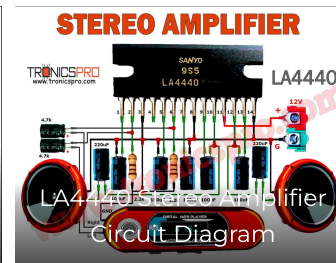
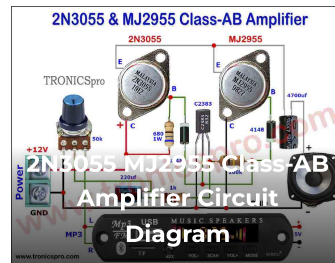
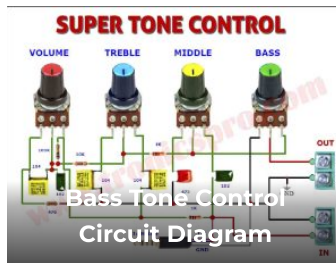




Following is the Circuit Diagram of Volume Bass and Treble.



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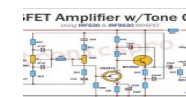


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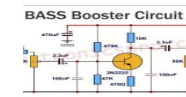
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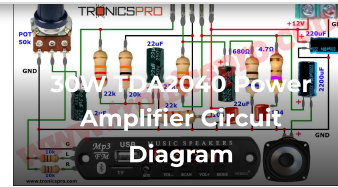
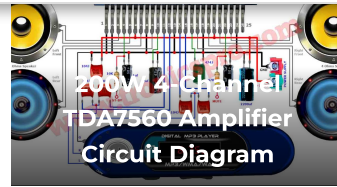
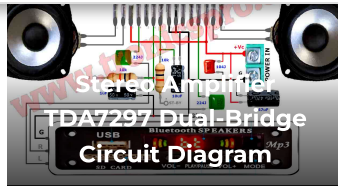
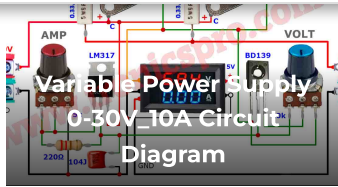
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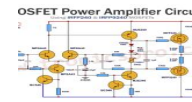
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TDA2030 Amplifier Circuit with Tone Control using 4558 IC

December 6, 2023



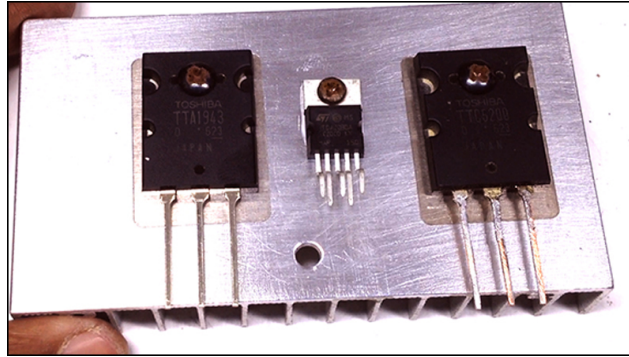
List of Components of C5200 A1943 TDA2030 Amplifier

- 2SC5200 Transistor x 1
- 2SA1943 Transistor x 1
- TDA2030 IC x 1
- 1uf / 50v Capacitor x 1
- 22uf / 50v Capacitor x 1
- 104J (100nf) Capacitor x 5
- 1N4148 Diode x 2
- 2.2 Ohms Resistor x 1
- 330 Ohms/1w Resister x 1
- 680 Ohms Resistor x 1
- 1k Ohms Resistor x 1
- 2.2k Ohms Resistor x 1
- 5.6k Oms Resistor x 1
- 22k Ohms Resistor x 1
- 33k Ohms Resistor x 1
- 2 Pole Terminal Block x 2
- 3 Pole Terminal Block x 1
- 50k Potentiometer x 3
- Heat Sink x 1
- Power Supply 12v to 18v
- Speakers 4 Ohms

Development Images used in C5200 A1943 TDA2030 Amplifier

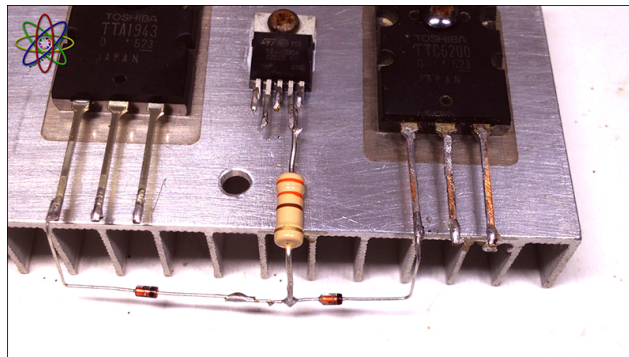


between transistors and heat sink. As the Collector pins of C5200 & A1943 are internally connected with the back plate of transistors for heat dissipation. Collector pins of both transistors will have plus & minus current which will cause short circuit if you will avoid insulation

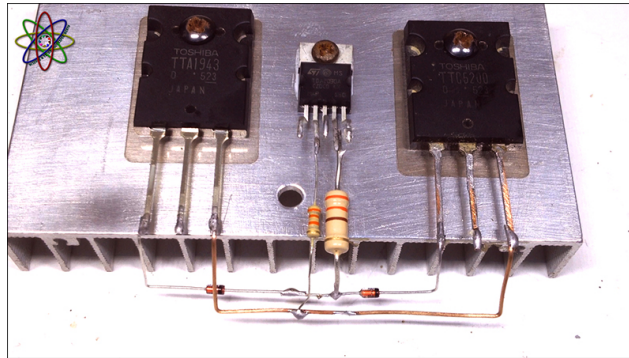


Step #2

Join plus & minus of two diodes 1N4148 together and solder the join. The positive side will go to right transistor C5200 base while the other end of negative side will go to left transistor A1943 base. Solder one end of 330 ohms/1w resistor to Pin.3 of TDA2030 and the other end solder to the center joint of both diodes 1N4148.

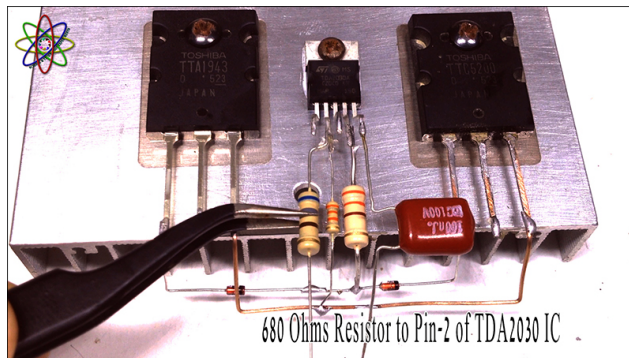


end of 33k resistor to Pin.2 of TDA2030 and other end solder to the junction of both emitters.



Step #4

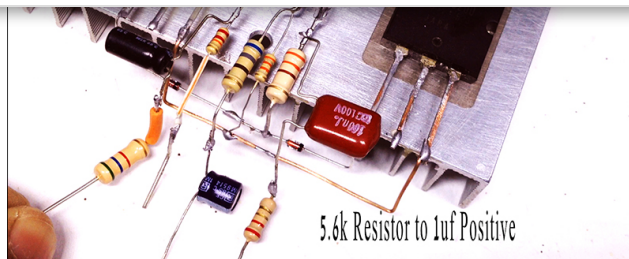
Solder one end of 100nf capacitor (104J) to Pin.4 of TDA2030 IC. Don't connect this capacitor to pin.5 as shown in the following image. I corrected it in later. Solder one end of 680 ohms resistor to Pin.2 of TDA2030 IC.



Step #5

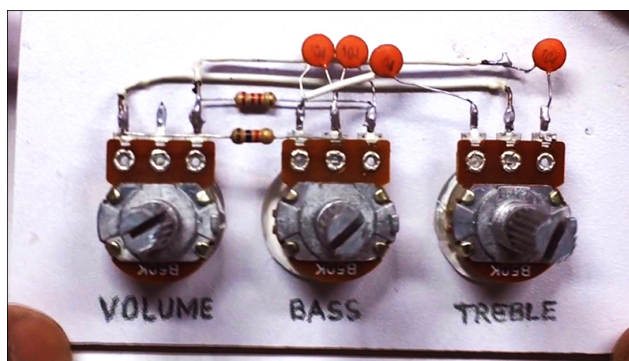
Connect 2.2 ohms resistor to 104J capacitor. Join 22uf capacitor's positive to 680 ohms resistor. Solder 22k to Pin.1 of TDA2030 IC. Solder 1uf Capacitor's Negative to Pin.1 of TDA2030 IC. Connect 5.6k resistor to 1uf capacitor's positive.





Step #6

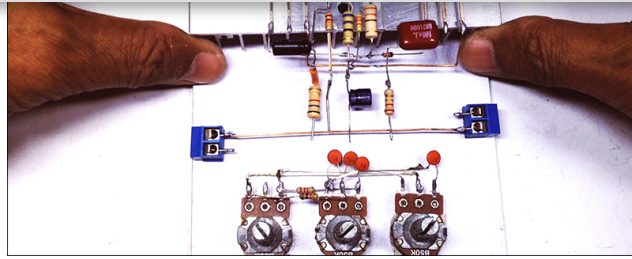
Following is a general purpose circuit of Volume-Bass-Treble which can be attached with almost all amplifiers. To see the construction of this project [\[Click Here\]](#).



Step #7

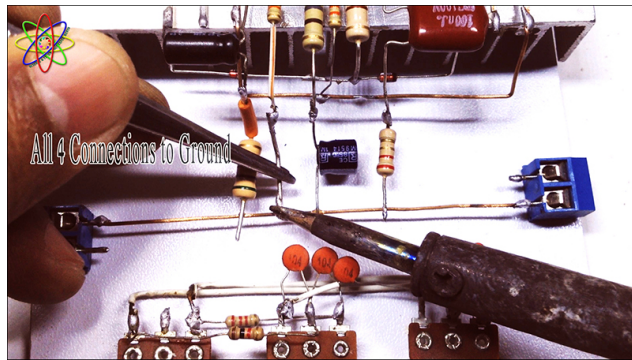
Place the heat sink with components on a piece of hard board sheet. I used two 2-pole terminal blocks for audio in and out. Both are connected together for ground connection.





Step #8

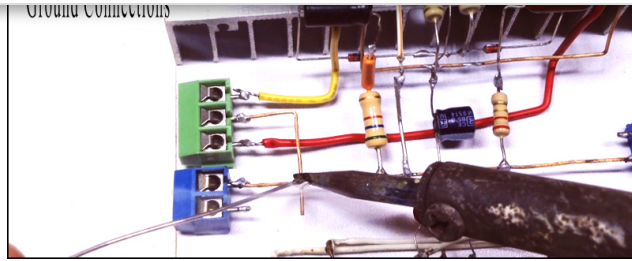
Now its time to connect all four loose connections to join them to ground. So, solder 2.2 ohms resistor, 22uf capacitor negative side, 22k resistor and 5.6k resistor to ground.



Step #9

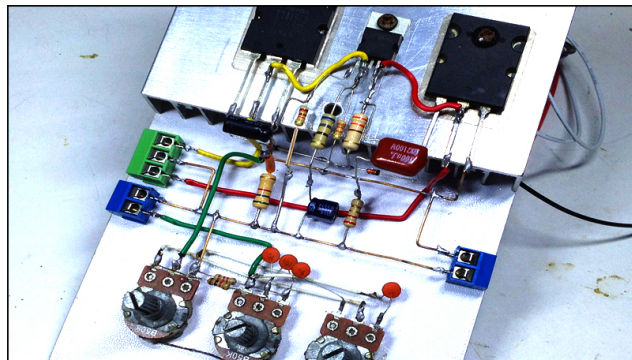
Connect Red piece of wire to Center Pin.2 of C5200 and Pin.5 of TDA2030 IC. Also connect Yellow piece of wire to Center Pin.2 of A1943 and Pin.3 of TDA2030 IC. Stick one 3-Pole Terminal Block on the board for dual power supply 18-0-18v. Connect a piece of red wire to Collector center Pin.2 of C5200 and the other end to 3-pole terminal block left channel. Now connect one more piece of yellow wire to Collector center Pin.2 of A1943 and the other end to 3-pole terminal block right channel. Connect center point of 3-pole terminal block to ground.





Step #10

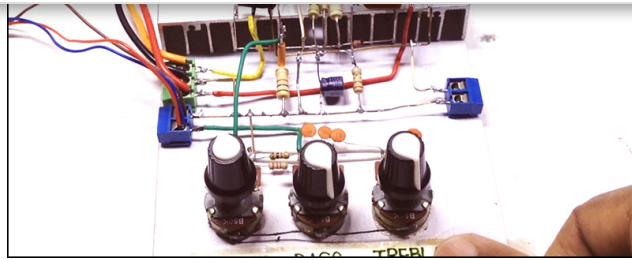
Connect the other point of right 2-pole terminal for speaker to Emitters junction for speaker output. Connect Pin.3 of volume controller to ground. Also connect Pin.1 of Bass Controller with a green piece of wire to the end end of 2-Pole terminal block. Also Connect center pin of volume controller with a green piece of wire to the positive of 1uf capacitor.



Step #11

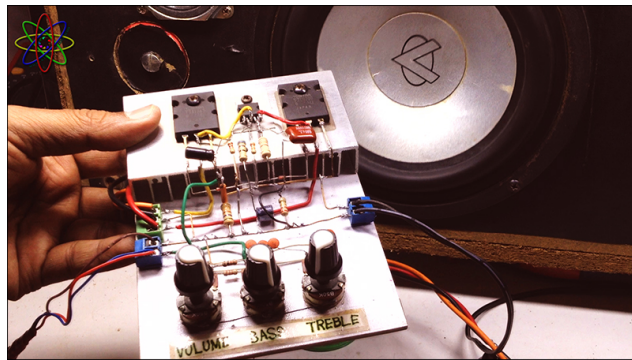
Insert 3 wires of dual power supply to 3-Pole terminal block. Red wire should +18v, Black should common and Yellow wire should -18v dc. Also insert audio jack 3 wire to left 2-pole block terminal. Ground to ground and other two wire to the other point.





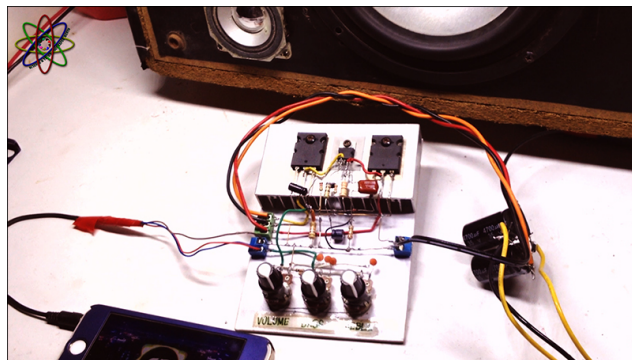
Step #12

Insert two wires of speaker to the right 2-pole terminal block. Speaker negative to ground and positive to the other point.



Step #13

All the connection are completed at this stage. Now insert audio jack pin to mobile and turn the power ON. Play music and enjoy it. Thank you so much for visiting the site.



Project Video

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15 comments on C5200 A1943 TDA2030 Amplifier DIY Homemade



Kio says:

December 18, 2019 at 12:36 am

Pregunta:

Tengo 3 parlantes al cual poseen mas ohmios que watts:

– 2 de 16 ohms & 5 watts

– 1 de 8 ohms & 2 watts

¿Es obligatorio que cada uno tengan menos 5 ohmios? o puedo usar lo que tengo?

Reply



Abdul Malik says:

December 18, 2019 at 6:30 am



de altavoz conectándolos en paralelo. Entonces, dos altavoces de 16 ohmios conectados en paralelo se convertirán en 8 ohmios. Entonces puede usar conectándolos en paralelo.

Reply



A) kareem says:

July 26, 2021 at 1:54 am

Mas, boleh saya minta di buat kan skema pembuatan amplifier mini dari transistor sanken 2sc2922 dan 2sa1216 yang super bass 🙏🙏

Reply



william says:

January 11, 2020 at 3:08 am

hello, good night I can't identify this ceramic capacitor, which one can I use instead

Reply



william says:

January 11, 2020 at 3:10 am

160njx 100w I can't identify

Reply



william says:



Reply



Tronicspro says:

January 19, 2020 at 9:20 pm

104J or 104 ceramic capacitors can be used.

Reply



wil says:

March 16, 2020 at 5:42 pm

hello, good morning the 22uf capacitor and how many volts

Reply



wil says:

March 16, 2020 at 5:44 pm

apologies are in the description, apologies

Reply



wil says:

March 16, 2020 at 5:44 pm



Reply



William says:

March 18, 2020 at 6:15 pm

hello good morning, how did you make this font for the project with c5200 / a1943 and the TDA 2030, could you explain

Reply



GD Singh says:

October 25, 2020 at 12:49 am

Very nice and easy project. Thanks

Reply



Tronicspro says:

December 26, 2020 at 4:01 am

Thank you.

Reply



David says:

June 19, 2021 at 5:38 pm



Reply



www.xmc.pl says:

May 16, 2022 at 12:31 am

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