UK193

20W Bridged Amplifier

This is a compact, yet powerful audio amplifier using two TDA2003 monolithic Integrated Circuits connected in bridged configuration to achieve more output power at 12V DC supply. It can deliver up to 20W of music power into a 4 Ohm speaker.

Operating Instructions

1. Connect a 20W+ speaker to the points marked "SP".
2. Connect the output of an audio source to the points marked "IN". **Make sure you connect the negative or ground to the point marked "⏚".** (It is recommended to use shielded wire to make the connection between the audio source and the circuit, connecting the shield strands to the point marked "⏚").
3. Turn the volume potentiometer "P1" to its minimum position.
4. The circuit needs to be supplied by a DC voltage source to operate. The DC voltage should be within 12 to 18V / 1.5 to 2A (to obtain the maximum output power you should use an 18V regulated DC supply). Connect this voltage to the points marked "DC" on the PC board. **Make sure of the correct polarity of the connections.**
5. Once the supply voltage has been applied you can increase the volume to the desired level using potentiometer "P1".

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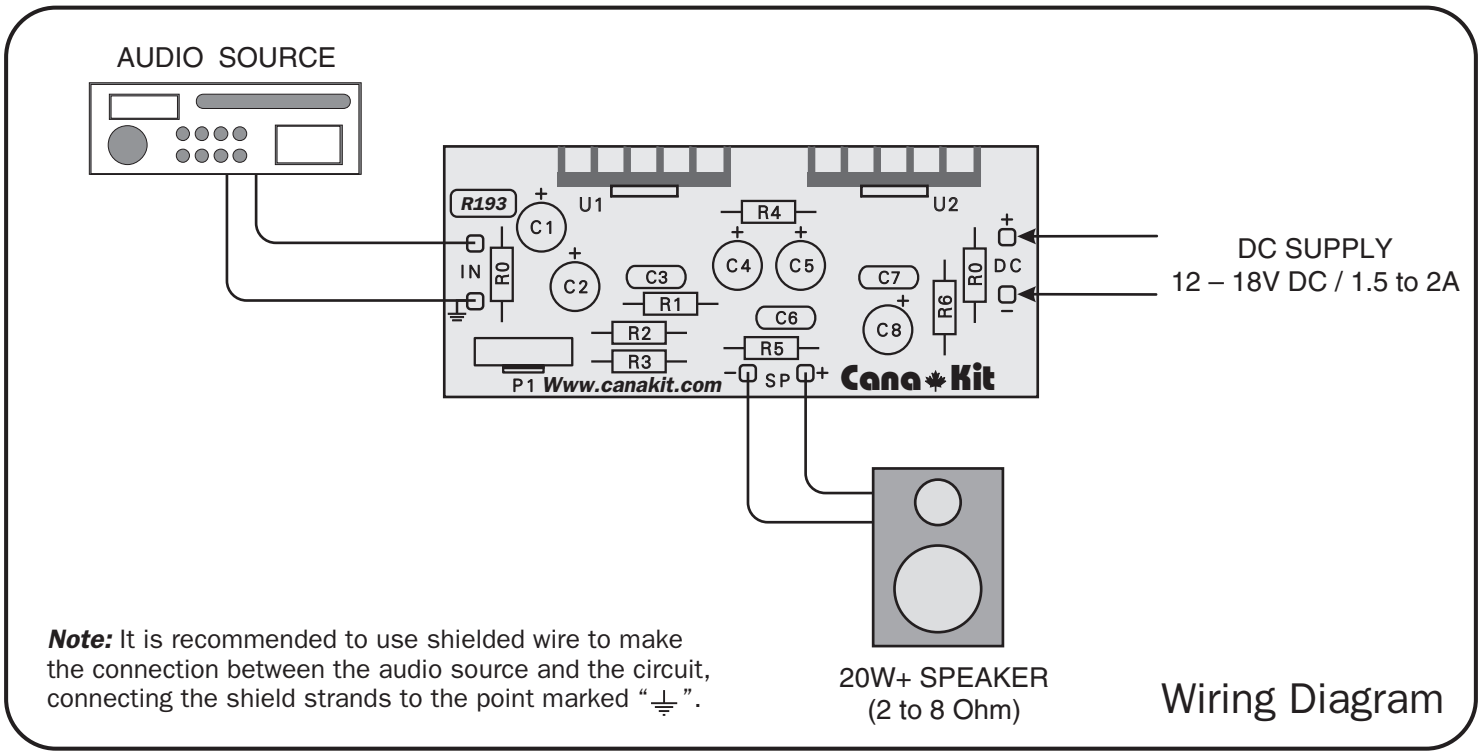

Note: It is recommended to use shielded wire to make the connection between the audio source and the circuit, connecting the shield strands to the point marked "⏚".

Wiring Diagram

Schematic Diagram

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