

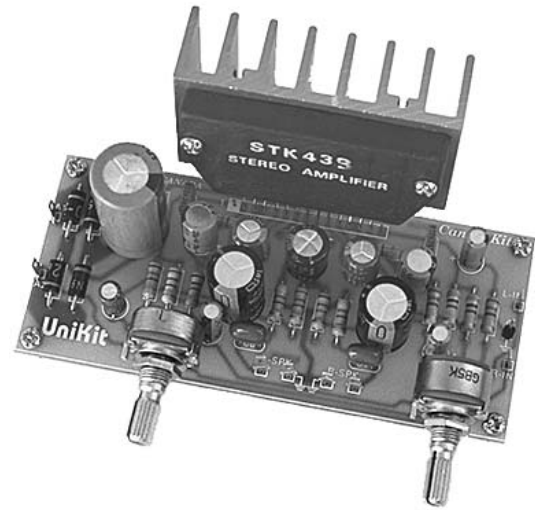
CK260

50W Hybrid Stereo Power Amplifier

Canakit

www.canakit.com

Manufacturer of High Quality Electronic Kits



Should you like to enjoy a low noise power amplifier, this kit is made for you. It incorporates power supply, volume and balance controls.

Step-by-step Assembly

Refer to the **General Assembly Guide** included with the kit for detailed instructions on installation of each component.

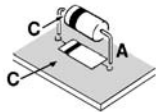
1 Resistors:

<input type="checkbox"/> R1, R8, R9, R14	220 K Ω	Red, Red, Yellow
<input type="checkbox"/> R2, R13	390 K Ω	Orange, White, Yellow
<input type="checkbox"/> R3, R12	220 Ω	Red, Red, Brown
<input type="checkbox"/> R4, R15	1 K Ω	Brown, Black, Red
<input type="checkbox"/> R5, R11	12 K Ω	Brown, Red, Orange
<input type="checkbox"/> R6	100 Ω	Brown, Black, Brown
<input type="checkbox"/> R7, R10	4.7 Ω	Yellow, Violet, Gold



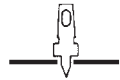
2 Rectifier Diodes:

<input type="checkbox"/> D1, D2, D3, D4	PS202
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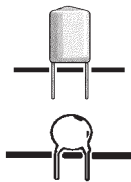
3 Terminals:

- Install the terminals at locations marked "A1", "A2", "L-SPK", "R-SPK", "R-IN", "G", and "L-IN".



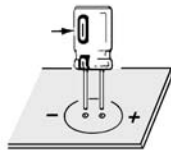
4 Ceramic Disc & Polyester Capacitors:

<input type="checkbox"/> C3, C14	121 / 120 pF
<input type="checkbox"/> C8, C11	224 / 0.22 μ F / 220nF



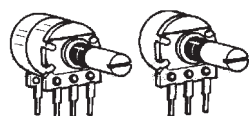
5 Electrolytic Capacitors:

<input type="checkbox"/> C2, C16	1 μ F / 50V
<input type="checkbox"/> C4, C13	220 μ F / 16V
<input type="checkbox"/> C5, C15	10 μ F / 50V
<input type="checkbox"/> C7, C10	47 μ F / 25V
<input type="checkbox"/> C9	330 μ F / 50V
<input type="checkbox"/> C6, C12	1000 μ F / 25V
<input type="checkbox"/> C1	2200 μ F / 50V



6 Potentiometer:

- Install the two potentiometers at locations marked "P1" and "P2".



P2

P1

7 Hybrid Integrated Circuit:

- Mount the STK4432 Hybrid IC on the heat sink so that the metallic back of the Hybrid faces the heat sink using the two screws provided. Then install the Hybrid on the PC board at location marked "U1". Make sure that pin 1 of the Hybrid (indicated with a dot on the body) is inserted in the hole marked "1" on the PC board.

Testing

Before testing the kit, It is highly recommended to inspect the PC board carefully as explained below:

- Check for proper placement of all components.
- Check for proper orientation of electrolytic capacitors and diodes.
- Check for proper orientation of the Hybrid.
- Check for protruding leads which could touch other leads or adjacent pads.
- Check all solder connections for cold solder joints.
- Examine the PC board solder side to see that there are no solder bridges causing shorts between tracks.

Once you are satisfied that everything is correct, proceed to do the test as follows: **(Refer to wiring diagram.)**

1. Connect the right and left inputs to the LINE-OUT of your audio system.
2. Connect two 20W+ speakers to the points marked "L-SPK" and "R-SPK". **Note that you must connect the negative terminals of your speakers to the terminals marked "⊥".**
3. Put the volume control potentiometer "P2" on its minimum position and the balance control potentiometer "P1" on its middle position.

4. Connect a 24 to 30V AC / 1.5A transformer to the points marked "A1" and "A2".
5. Now increase the volume control ("P2") to your desired level.

Manufactured by:
Cana Kit Corporation
 (Unikit is a division of Cana Kit Corporation)
 #121 - 3823 Henning Drive
 Burnaby • BC • V5C 6P3 • Canada
 Email: info@canakit.com
 Web Site: www.canakit.com

