This stereo amplifier module uses the Samsung KA2209 8-pin IC. This is an equivalent IC to the TDA2822. It is designed for portable cassette players & radios. It has a wide operating supply voltage of 1.8V to 9V so it is suitable for battery operation. It can be connected in either a stereo or bridge pattern. The stereo connection is used in this kit. Feed the output from a preamplifier into this kit.

The kit is constructed on a single-sided printed circuit board (PCB) with a printed overlay and bottom solder mask. Protrax Autotrax and Schematic were used to produce it.

ASSEMBLY INSTRUCTIONS
Check off the components in the bag against the Component listing. It is generally easiest to solder the lowest height components first - the resistors. Then solder the IC socket & capacitors.

The main thing to watch is to get the electrolytic capacitors in the correct way. The negative terminal is marked on the body of the capacitor. And the positive is marked on the overlay of the PCB. Also make sure to get the IC around the correct way. The dot or marked end of the IC corresponds to the indent shown in the overlay.

Pads are provided for the stereo signal in, out and the power supply. Hook-up wire and speakers are for the user to supply. Speakers should be a minimum of 1W, 4 or 8 ohm.

CIRCUIT DESCRIPTION
This is the textbook circuit for this IC in stereo mode. It is ideal for battery powered operation. Power output depends critically on speaker resistance & supply voltage. At 3V into 4 ohm speakers the power is 0.1W. At 6V into 4 ohm speakers it is 0.65W. At 9V it is over 1W.

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