

4x4 - Three Transistor Headphone Amplifier - Class AB

The circuit diagram shows a 4-channel audio amplifier. It features two input channels, IN+ and IN-, each with a 4.7uF coupling capacitor (C1, C2) and a 100k potentiometer (R5) for volume control. The first stage uses BC547 transistors (T1, T2) in a common-emitter configuration. The second stage uses BC107 transistors (T3, T4) in a common-emitter configuration. The output stage is a push-pull arrangement using BC107 transistors (T5, T6). The circuit includes a 100-1000uF electrolytic capacitor (C3) for power supply filtering, a 220uF electrolytic capacitor (C4) for coupling, and various resistors (R1, R2, R3, R4) for biasing and load matching. The output terminals are labeled BAT+, HDPH+, HDPH-, and BAT-.

