

100W Audio amplifier

The schematic diagram illustrates a 100W Audio amplifier circuit. The circuit is powered by a dual-polarity supply, $+U_s = +35\text{VDC}$ and $-U_s = -35\text{VDC}$, with a 4A fuse (F1, F2) and a 100V capacitor (C15). The input stage uses a 2N5401 transistor (T1) and a 1.85VDC bias. The output stage uses a push-pull configuration with 2N5551 (T7, T8) and 2SA1943 (T9, T10) transistors. The circuit includes various resistors (R1-R31), capacitors (C1-C15), and diodes (D1-D3). The output is connected to a speaker (Sp1) through a 100V capacitor (C15) and a 100V fuse (F3).

Figure 1.