

HUNTERS BUDDY HBTX-2 CIRCUIT DESCRIPTON

Referring to the schematic:

Power is provided by B1, a standard 9 volt, zinc-carbon or alkaline battery. Voltage from the battery is directly connected to regulator, U3, which is disabled in the quiescent state. Current in the quiescent state is $<1\mu\text{A}$.

Engaging any of the membrane switches, S1–S4, will pull resistor, R3, high, enabling the regulator output providing power to the microcontroller, U2, and to the transmitter hybrid, U1. The output of the regulator is 3.3 volts, nominal.

The encoded control signals are output at pin 7 of U2, and applied to the modulation/data input, pin 8 of U1, through resistor, R1. The rf output from U1 appears at pin 20 and is coupled to the antenna through the matching network, L1, L2.