

HUNTERS BUDDY HBTX-2 CIRCUIT DESCRIPTION

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 micro-controller, 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.