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ENGINEERING DEPARTMENT**ITEM NO:****MODEL NAME:-****RAD4.0****FREQUENCY :-****49.860 MHZ****DATE :-****5 TH DEC 2001****BY:****NELSON WAN****(TX CIRCUIT DESCRIPTION)****** CIRCUIT DESCRIPTION :- (TX)**

WHEN THE UNIT IS TURNED ON A CW SIGNAL IS TRANSMITTED. THE DC REGULATOR Q1 AND ELECTRIC SWITCH Q3, Q4 WILL CONTROL THE POWER FOR THE CIRCUIT. THE CRYSTAL CONTROLLED OSCILLATOR Q7 OUTPUT IS COUPLED THROUGH C5 TO THE BASE OF Q8. FROM Q8 THE SIGNAL IS FED THROUGH C8 TO THE LOW PASS FILTER MADE UP OF C7, C10, L3 & L4 WHICH IS CONNECTED TO RELAY TO THE ANTENNA. THE U1 ALSO THROUGH ELECTRIC SWITCH Q5, Q6 TO SELECT THE CONTROL UNIT Q12 (PROCEED TRANSMIT SIGNAL) OR CONTROL RELAY UNIT Q11 (RECEIVE THE AUDIO SIGNAL). THE AUDIO SIGNAL WILL THROUGH RELAY "REC / TRA ANT SWITCH" TO Q9 "DEMODULATION" AND AUDIO AMP Q10/U2 TO SPEAKER. THE MODULATION IS PROVIDED BY U1 WHEN ONE OF THE SWITCHES ARE PUSHED. THE UNIT IS POWERED BY A 9.0V BATTERY AND IS SELF CONTAINED.

**** ANTENNA AND GROUND CIRCUITRY. (TX)**

THIS UNIT MAKES USE OF AN EXTERNAL 5" ANTENNA. THE ANTENNA IS INDUCTIVELY COUPLED. THIS UNIT IS POWERED FROM A 9.0V BATTERY.

**** NO GROUND CONNECTION IS PROVIDED. THE UNIT RELIES ON THE GROUND TRACK OF THE PRINTED CIRCUIT BOARD. (PCB)**