

To : Timo-Gerhart

From : Libranee - Mandy



Early Light Industrial Co., Ltd

TEL: 852-29448866 EXT 354

FAX: 852-24136147

Item No. : #51620
 Model Name : Night Blazer
 Frequency : 27.145 & 49.860MHz
 Date : 28 APRIL,2003
 Prepared By : S. W. Mok
 REV : 00

Electronics Department

(CIRCUIT DESCRIPTION)

CIRCUIT DESCRIPTION:

IN TRANSMIT MODE:

WHEN TX UNIT IS TURNED ON, A CW SIGNAL IS TRANSMITTED. THE FREQUENCY OSCILLATED BY Y101 AND MODULATED RF SIGNAL OUTPUT FROM IC 101 PIN 5(RFO) IS COUPLED THROUGH T1 TO ANTENNA.

THE LOW PASS FILTER MADE UP OF C106,T1101, & C107, WHICH IS CONNECTED TO THE ANTENNA.THE MODULATION IS PROVIDED BY IC101. THE MODULATED RF SIGNAL WILL BE SEND OUT IF EITHER SW101,102,103,104 OR 105 IS PRESS.

A 9V ALKALINE BATTERY SUPPLIES ENERGRY .

IN RECEIVE MODE:

Q1 IS THE SUPERREGENERATOR & DETECTOR. ZD1 IS THE PRECISION VOLTAGE REGULATOR IC1 IS THE SIGNAL DECODER. Q4, 5 10 & 11 IS THE TUNNELS OF THE MOTORS DRIVR. Q2, 3, 6, 7, 8, 9, 12 & 13 ARE THE CURRENT DRIVER OF THE TWO MOTORS. ENERGRY IS SUPPLIED BY 4x1.5V AA SIZE ALKALINE BATTERY.

ANTENNA AND GROUND CIRCUITRY.

THIS UNIT MAKES USE OF AN EXTENAL 8-INCH ANTENNA, THE ANTENNA IS INDUCTIVELY COUPLED, THE UNIT RELIES ON THE GROUND TRACE OF THE PRINTED CIRCUIT BOARD. NO EXTERNAL GROUND IS PROVIDED.

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