

## D-rex M8577

### 27.145MHz TRANSMITTER OPERATIONAL DESCRIPTION

The D-rex radio control transmitter is a low powered, hand held unit for controlling the program of a D-rex Dinosaur toy. The transmitter is supplied by two 1.5 volt AAA batteries. It is designed to operate on a single fixed frequency in the 26.98---27.28MHz band. See the attached block diagram and schematic.

Input switches trigger IC(U701) which produces the digital control signals that will modulate the carrier signal. The carrier signal is generated by a crystal oscillator circuit which is comprised of a 27.145MHz crystal (X701) and IC .The stage is capacitive coupled (via C709 ) to the antenna through a “Pi” matching network comprised of L703, C711, L704, C712, and C713. The antenna is 12 inches long and permanently attached.

The transmitter just likes the “Bone” controller and it has 5 control functions Attack, Guard, Seek, Game, Yes/No. You can press each button of Bone controller to change D-rex play program, pls see the flow chart for reference

All tuning and verifications are performed by the manufacturer and there are no adjustments that can be made by the User .No external ground is required or used with this transmitter.