

## EXHIBIT 3

Technical Description

Para. 2.1033(b)(4)



**Retlif Testing Laboratories**

Test Report No. R-7560-1  
FCC ID: CCT2085T

## FISHER PRICE TOY #2824 TRANSMITTER

### CIRCUIT DESCRIPTION:

The 2824 transmitter is an amplitude modulated pulse code system, operating at a carrier frequency of 27.145 MHz.

I.C.1 and I.C.2 along with associated components: R1, R2, R3, R4, D1, D2 and C1 comprise the pulse code generator. R1, R2, C1, R3 and related two inverters make up the master clock for the pulse timing. The CD 4017 BC (I.C.2) decade counter/ divider with 10 decoded outputs, and NOR gate (I.C.1) generate the pulse train. SW-3, SW-4, D1, D2 are the command selects. The pulse code is fed to the base of the modulation transistor Q3 by R10. Modulation depth is controlled by R7.

Q1, R5, C2, XTAL, R8, C4, C5, C4, T1 form the 3rd overtone 27.145 MHz R.F. oscillator. R.F. energy from the secondary of transformer T1 is coupled to the driver stage Q2. The output driver is comprised of R6, C6, Q2, C7, R7, T2. A modulated R.F. carrier is coupled to the antenna by matching network C8, and L1.

R9, C12, C13, C9, C15 are supply decoupling and filtering. The transmitter is powered up only during control commands by a 9 volt battery from PW-SW1-SW2 switch.

CD 4025 can substitute directly for CD 4000 for U1.