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FCC ID: N8Q5326

Trade and Model: Coleman 5326-1201, 5326-750, 5327-750, 5328-723 and 5329-723

Part Name: Transmitter Unit

Technical Description

1. Power Supply

The power supply for the transmitter unit is a battery source with a nominal voltage of 3V DC (such as two AAA-cell batteries in series).

2. On/Off Tact Switch

When the tact switch is pressed, the transmitter circuit is energized and LED D1 lights up as power indicator.

With the tact switch pressed, capacitor C6 and resistor R4 change the state of the output signal of chip IC1, either from "on" to "off" or from "off" to "on." For example, if the initial state of the output signal from IC1 is "off", pressing the tact switch once will make the transmitter emit an "on" signal; pressing the tact switch again, the transmitter will emit an "off" signal, and so on. The result is a "push-on push-off" feature for the transmitter unit to remote control the receiver unit.

3. Signal Encoding

The output signal ("on" or "off") from chip IC1 is encoded by the address bits A0 to A7. The signal is encoded internally by chip IC1.

4. RF modulation and Transmission

After the signal is encoded by chip IC1, it will be modulated and then transmitted out by transistor Q1, inductor L1, capacitors C1, C2, C3, C4 and C5, and resistors R1 and R2. The variable capacitor C1 is for tuning the transmitter unit to transmit signals at the appropriate frequency.