

## BIRD REPEL IOI

Concept: The Bird Repel system is similar to electric fences used on ranches. The main difference is that the Bird Repel system uses two wires spaced one inch apart - one is the "output" wire, the other is the "return" wire.

Each wire is connected to one of the output terminals of the Bird Repel energizer. The Bird Repel energizer emits a memorable yet harmless intermittent output pulse that travels down the wires. When a bird makes contact with the wires, the output pulse shocks the offending bird in a way that is similar to a strong electrostatic shock experienced when touching a doorknob - it's not pleasant, but it won't harm you.

An electric shock is the most effective method of keeping animals away from unwanted areas. It presents a powerful psychological barrier rather than a physical (and unsightly) barrier.

## The Energizers:

The open circuit output voltages of the Bird Repel energizers are as follows (+/- 10%):
BR-2D 8,000 Volts
SS-5 4,700 Volts
BR-440 9,000 Volts

These voltages may initially appear to be very high. It's important to note that the output pulse has an extremely short "on time" or pulse width. For example, the on times of the BR-2D and BR-440 are 28 micro-seconds or 0.000028 second. The on time of the SS-5 is 212 micro-seconds or 0.000212 second. This means that the amount of energy imparted to the animal, while annoying, is very small. Additionally, the "off time" or time between pulses is between 1.0 second and 1.8 second. This gives the birds

ample time to flee so that they only receive a single pulse. We don't want to hurt the birds, just make them go away.

The SS-5 energizer is UL approved. The BR-2D (battery) and BR-440 (solar) are also designed to adhere to Underwriters Laboratories' strict guidelines for energizers but since they are not AC-powered, it is not required.

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