

Blade Runner PKD Interactive Sound and Light Board

Hyperdyne Labs, © 2002

OVERVIEW

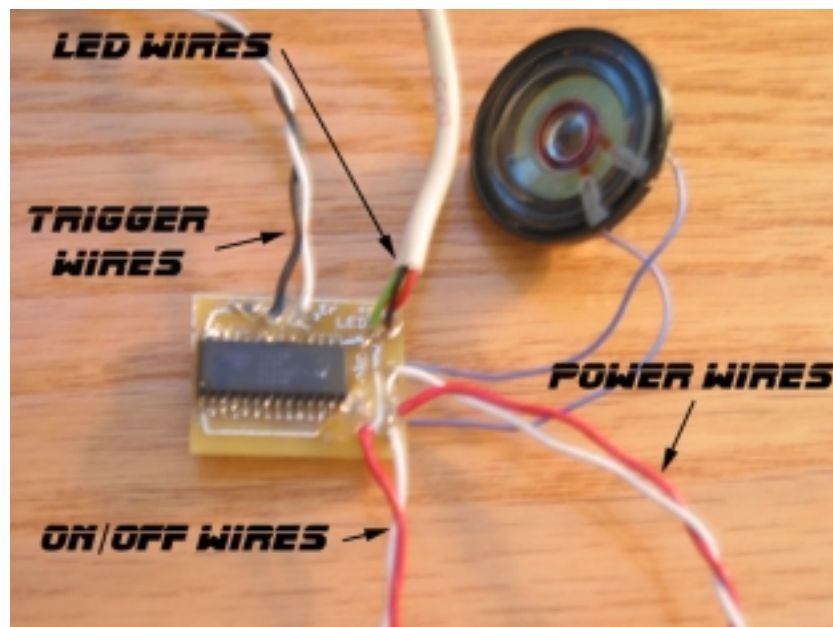
This board is for installing into a PKD or other non-working replica gun kits. It includes 4 LEDs for the PKD and a speaker to play out the sounds. When you apply power to the sound board, a powerup sound is played out and the LEDs fade in to simulate a powerup condition. When you touch the trigger wires together, a gun shot sound plays out. After 5 shots, an “out of ammo” warning sound plays out. Subsequent trigger pulls plays out an empty clack sound. When you fire each shot, the LEDs also strobe to let you know the gun can “fire” again. After the 5 shots, the LED briefly blink to let you know that the gun is “out of ammo”. This gives your replica some interactive play which gives that static prop an extra boost of “life”!!

The sound board comes with

- mini speaker
- assembled sound board
- on/off switch and wires.
- Power wires with battery springs attached.
- (4) 357 button batteries
- (4) red LEDs with hookup wire

WIRING DESCRIPTION

Here is a pic of the sound board:

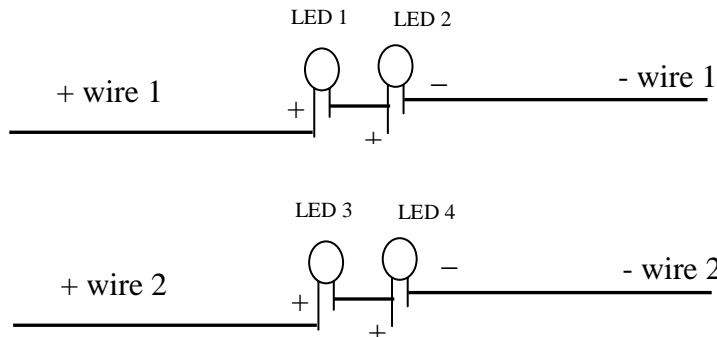


The 2 bottom wires shown coming off the sound board are for the on/off power switch. When these make contact, the board powers up automatically. You can solder these wires to the power switch you plan to use.

The 2 top wires coming off the sound board are the trigger wires. When these make contact, the board plays out the gun shot sound. You can attach these to the metal trigger so when you pull the trigger, the wires make contact. In one implementation, you can use a piece of foil on the inside of the trigger guard and attach one wire to this. Attach the other wire to the metal trigger. When the trigger touches the inside of the trigger guard, it will play out the gun shot sound.

The 4 other wires are the LED wires. The 4 LEDs must be connected up in a certain manner to work properly. There are 2 ground wires and 2 power wires. You hook up the LEDs positive side (**the positive end is usually the longer leg on most LEDs**) to the positive (+) side of the LED wires, and the shorter (negative) LED leg to the negative side of the LED wires.

It is suggested you connect 2 pairs of LEDs in series to get maximum brightness. This connection looks like this:



With the above setup, each LED will have the same brightness. You can connect the LEDs in parallel as well, but this will make all the LEDs dimmer.

INSTALLATION

The sound board will fit in the hollowed out handle of the PKD kit. You can run the wiring to the barrel for the LED connections. The battery springs can also be hot glued into the handle. The (4) 357 batteries are taped together and installed. NOTE the polarity of the batteries, the red wire is the + side for the batteries.

The speaker will fit in the metal butt plate on the grip. You can run the wire right up to the sound board.

The wires for the trigger can be run to the trigger area. Some dremeling might be needed to get the wires to the necessary place. You can drill holes for the trigger wires.

The wires for the on/off can be run to wherever you like. You can use any SPST on/off switch to turn the unit on and off. The below example runs the switch to the safety switch, which hides the switch.

Here is a picture of the board installed in a PKD II kit from Doppelganger productions.



And here is a picture of the finished prop with the LEDs lit.



Enjoy!!