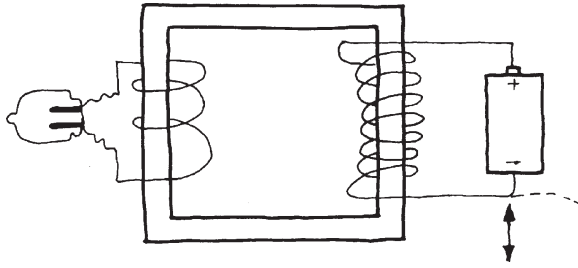


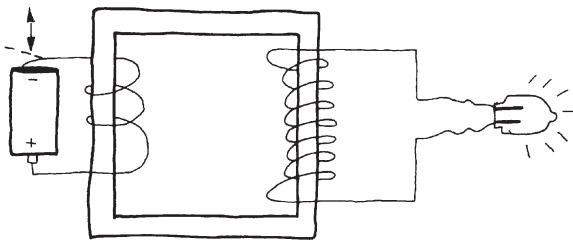
SHOCK OF YOUR LIFE

Light up a torch bulb with a AC transformer using a 1.5-volt DC torch battery. You can also shock your friends.



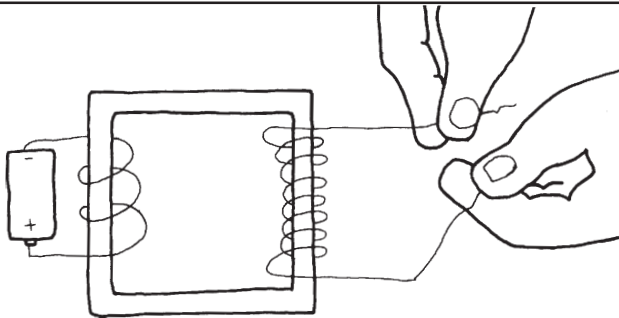
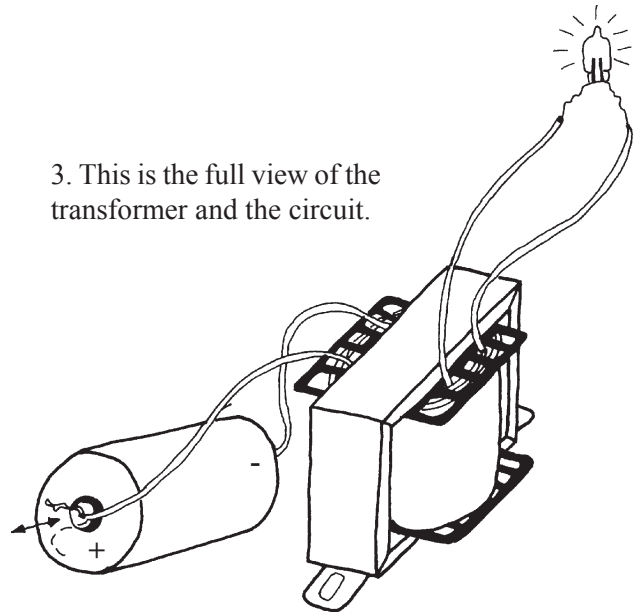
1. Normally electrical transformers works on AC. But you can make one work with a 1.5-volt DC torch battery. Take an ordinary transformer 220 volts to 3-volt (500 mA) used in many variable power supplies. Attach the Primary lead of the transformer to the battery. Attach the Secondary leads of the transformer to a 220-volt (25 W) ornamental / flickering bulb.

ON / OFF



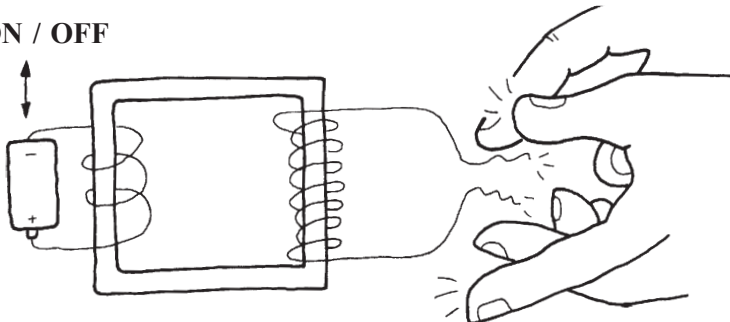
2. At this stage the 220-volt bulb will not light up. But as the battery contact is put ON / OFF the bulb lights up. We know that AC flows at 50 cycles/second. So by switching ON and OFF we are simulating an AC current.

3. This is the full view of the transformer and the circuit.



4. Now remove the bulb. Ask your friend to hold the two leads of the secondary coil with each hand. At this moment only one end of the battery is connected to the primary coil.

ON / OFF



5. Now connect the other end of the primary to the battery and remove. Your friend will get an instant SHOCK!