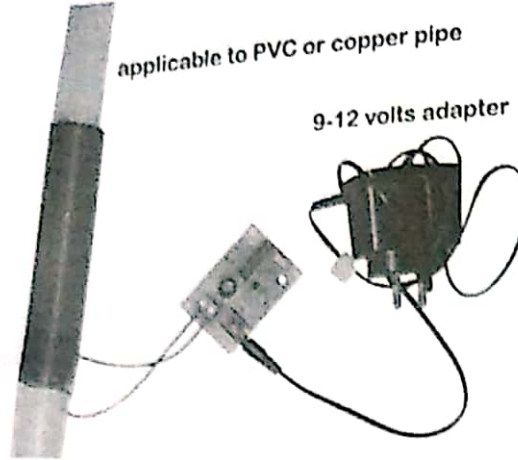


Using Manual

Product Parameters:

1. The +V is 8 to 10VDC. The current at 10V is 50mA. Any 9V universal power supply is powerful enough. Make sure the voltage does not exceeds 15V because it can damage the 4049B CMOS.
2. stripped back 1/8" before inserting into the J2 COIL screw terminals
3. The coil on the water pipe is made of 5 meter long insulated wire of 24 to 20 gage. The wire is turned around the copper or plastic water pipe (it can not be steel pipe) in a single layer. On a pipe of 20mm diameter it will form 55 turns. Since the wire is 5 meter long the number of turns will be different for different pipe diameter.
4. once both end of the wire connected the LED will be on (indicated its working)
5. The circuit is a 12KHz oscillator with a coil of 470uH at the output to limit the current through the water pipe coil to 300mA peak.
6. 33K resistor and 1000pF (1nF) capacitor determent the frequency.
7. 47nF cap. and 1K resistor are noise suppression, they can be omitted.
- 8 You can use equivalents for BC337 and BC327.
- 9 470uH can be any type that can carry 300mA.
- 10 1N4148, 680 ohm and LED are optional components to indicate output signal and coil are present.
- 11 All resistors are 1/4 watt, 5%

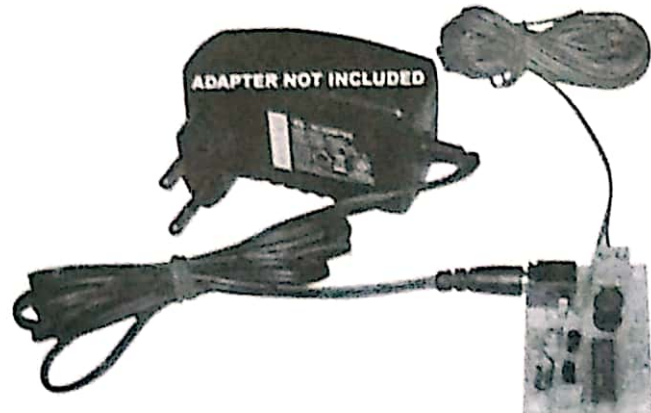
Wiring Picture



9-12 volts adapter



coil connecting terminal



Your attention please:
adapter needed connecting way:



(If the adapter is not connected like above, the led light will not come on, this descaler will not work)

