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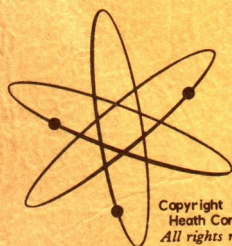
HEATH COMPANY • BENTON HARBOR, MICHIGAN

HEATHKIT® ASSEMBLY MANUAL



DC OSCILLOSCOPE

MODEL 10-10



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595-346-02

TYPICAL COMPONENT TYPES

This chart is a guide to commonly used types of electronic components. The symbols and related illustrations

should prove helpful in identifying most parts and reading the schematic diagrams.

<p>RESISTOR</p>	<p>CAPACITOR</p>	<p>TUBE</p>
<p>POTENTIOMETER (CONTROL)</p>	<p>ELECTROLYTIC CAPACITOR</p>	<p>TRANSISTOR</p>
<p>TRANSFORMER (IRON CORE)</p>	<p>VARIABLE CAPACITOR</p>	<p>RECTIFIER (DIODE)</p>
<p>TRANSFORMER (ADJUSTABLE POWDERED IRON CORE) ARROW INDICATES DIRECTION OF CORE MOVEMENT TO INCREASE INDUCTANCE</p>	<p>BATTERY</p>	<p>NEON BULB</p>
<p>TRANSFORMER (ADJUSTABLE CORE)</p>	<p>PHONO JACK</p>	<p>ILLUMINATING BULB</p>
<p>POWER TRANSFORMER</p>	<p>PHONE JACK</p>	<p>METER</p>
<p>INDUCTOR (COIL)</p>	<p>RECEPTACLE</p>	<p>SWITCH (TOGGLE)</p>
<p>PIEZOELECTRIC CRYSTAL</p>	<p>SPEAKER</p>	<p>SWITCH (ROTARY)</p>
<p>BINDING POST</p>	<p>MICROPHONE</p>	<p>FUSE</p>
<p>ANTENNA</p>	<p>EARTH GROUND</p>	<p>CONDUCTORS</p>



HEATH COMPANY

Phone 616-983-3961 • TWX-616-983-3897 • Benton Harbor, Michigan 49022

Dear Customer:

We have included a power transformer that enables you to wire your kit to operate from either a 120 volt or a 240 volt AC power source (50/60 cps). This transformer has two additional leads in its primary windings that are not mentioned in your Manual. The following steps will tell you how to combine these leads to produce the correct voltages in your kit.

NOTE: In the U.S.A. your power source (line voltage) is usually 120 volts AC, while in other countries it is more common to have a power source of 240 volts AC. Perform only one of the following two sets of instructions. **USE ONLY THE SET OF INSTRUCTIONS THAT AGREE WITH THE POWER SOURCE IN YOUR AREA!**

Transformer Prewiring for use with a 120 VOLT AC Power Source:

- () Locate the power transformer. Its part number starts with 54-....
- () Twist the black lead and the black-green lead together. Place insulating tape around this pair at 1-1/2" intervals.
- () Twist the black-red and the black-yellow leads together. Place insulating tape around this pair also at 1-1/2" intervals.

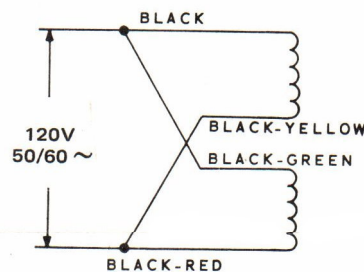


Figure 1

From this point on, please consider each of these taped pairs as one black lead. When, for example, a step in the Manual directs you to prepare, connect or solder a black transformer lead, use both of the leads in the taped pair.

Transformer Prewiring for use with a 240 VOLT AC Power Source:

- () Locate the power transformer. Its part number starts with 54-....
- () Cut the black-yellow and the black-green leads to a 1-1/2" length, measured from where the leads emerge from the transformer.
- () Remove 3/8" of insulation from the end of each of these leads.

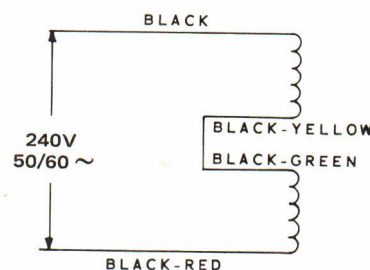


Figure 2

- () Twist the bared ends of the two leads together and solder the connection. Place insulating tape over the joint.

When your Manual directs you to work with the two black transformer leads, please consider the black-red lead as "the other" black lead.

E Transformer
597-497

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