instruction sheet

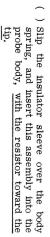
FOR THE HEATHKIT HIGH VOLTAGE PROBE MODEL NO. 336

331-6 595-490	341-1 341-2	438-3	258-3	258-2	260-1	250-6	2-47	476-2	432-1	
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Solder Instruction manual	Length black test lead Length red test lead	Phone plug	Body spring	Tip spring	Alligator clip	Hex collar screw	1090 megohm resistor	Probe body	Connector	PARTS LIST

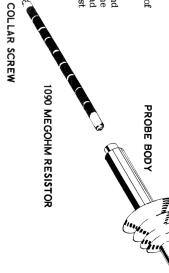
NOTE: HANDLE THE 1090 MEGOHMRESISTOR WITH CARE AS OUTLINED IN THE NOTE PACKED WITH THIS PART.

ASSEMBLY INSTRUCTIONS

) Remove the screw from one end of the spring onto the long part of the collar the collar screw. Now screw the body 1090 megohm resistor and replace it with



- Strip 1/4" of insulation from both ends of both test leads.
- () Unscrew the cap from the phone plug and insert one end of each test lead through the cap as shown. Solder the red test lead to the center lug, and solder the black test lead to the outside lug.
- Replace the cap on the phone plug.



USING THE HIGH VOLTAGE PROBE

IN EXCESS OF 30,000 VOLTS. CAUTION: HIGH VOLTAGES ARE EXTREMELY D GEROUS, NEVER MEASURE DC VOLTAGES

measurements to be made as safely as possible. This probe is designed to permit high voltage

CLIP IS CONNECTED TO THE CHASSIS OF THE UNIT UNDER TEST AND THAT THE PROBE IS CONNECTED TO THE VTVM. ALWAYS MAKE SURE THAT THE GROUND

by hooking the tip spring to the terminal under test. This should be done with the power turned off. Then without touching the probe, turn power on, take the reading, turn the power off, carefully discharge any high voltage capacitors which may be in the circuit, and remove the probe from the circuit. Wherever possible, contact the high voltage

the test lead assembly never carry more than 300 volts when the probe is properly connected, THESE PARTS WILL BE EXPOSED TO THE FULL 30,000 VOLTS, IF NOT CONNECTED While the conductors inside the handle

> a 30,000 volt range. 10,000 volt range, a 150 volt range becomes a 15,000 volt range, and a 300 volt range becomes all voltage ranges will be increased by a factor of X100. Thus a 100 volt range becomes a the standard input resistance of 11 megohms,

When the test probe is connected to a VTVM with

INSTALL TIP SPRING WHEN DESIRED

NOTE: Although multiplying a 500 volt range by 100 gives a range of 50,000 V, never use the probe on DC voltages above 30,000 volts.

a 500 volt range. the 1.5 volt range would become a 150 volt range, the 3 volt range would become a 300 can even be used with lower voltages by using a 1.5 volt, 3 volt, or 5 volt range of the VTVM; ments to be made in high resistance circuits with negligible loading. This high input resistance volt range, and the 5 volt range would become VTVM to 1100 megohms. This permits measure-This probe increases the input resistance of the

INSULATOR SLEEVE **BODY SPRING**

- Solder the alligator clip to the other end of the black test lead.
- Insert the other end of the red test lead nector, as shown. first) and solder it to the eyelet in the conthrough the tip spring (through the wide end

TIP SPRING

CONNECTOR

SOLDER

() Push the tip spring down tightly into the end of the connector, and then tighten the setscrew in the connector.

RED TEST LEAD

PHONE PLUG

Screw the test lead assembly to the probe sistor and tip, and between the spring and body, thus compressing the body spring, and insuring the proper contact between the retest lead assembly.

CAP

SOLDER

probe. This completes the assembly. Connect the prost to your VTVM in place of the regular DC test

BLACK TEST LEAD

ALLIGATOR CLIP

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