

**OSCILLOSCOPE WAVEFORMS**

SET THE CO-2600 FRONT PANEL CONTROL AND SWITCHES AS FOLLOWS:

- INTENSITY: AS DESIRED.
- VERTICAL POSITION: TRACE CENTERED VERTICALLY.
- VERTICAL GAIN: FULLY COUNTERCLOCKWISE (CAL).
- HORIZONTAL POSITION: TRACE CENTERED HORIZONTALLY.
- TRACE LENGTH: TRACE FROM LEFT VERTICAL LINE TO HORIZONTAL LINE ON GRATICULE.
- PARADE: PUSHED-IN
- NUMBERED PUSHBUTTON #6: PUSHED-IN.
- PRIMARY SW: PUSHED-IN.
- RPM 1000: PUSHED-IN
- CYLINDERS 6: PUSHED-IN.
- SPECIAL: PUSHED-IN.
- CONNECT THE RED PRIMARY LEAD TO TP PIN ON SPECIAL FUNCTIONS CIRCUIT BOARD.
- ADJUST THE OSCILLOSCOPE TO CORRESPOND TO REFERENCE WAVEFORM #1. THE TIME OF WAVEFORMS 2 THROUGH 29 IS RELATED TO WAVEFORM #1.

NO.	TEST POINT(S)	WAVEFORM
1.	IC305 PIN 19.	
2.	IC305 PIN 2; IC301 PINS 13, 2, 3, 9, 10; IC302 PINS 2, 5, 9, 10; IC307 PINS 4, 5; IC304A PIN 13; Q309 EMITTER.	
3.	IC305 PIN 3; IC301 PIN 3.	
4.	IC305 PIN 3; IC301 PIN 4.	
5.	IC303 PIN 7; IC301 PIN 12.	
6.	IC303 PIN 11; IC302 PIN 15.	
7.	IC303 PIN 4; IC302 PIN 3.	
8.	IC303 PIN 5; IC302 PIN 6.	
9.	IC303 PIN 10; IC302 PIN 12.	
10.	IC305 PINS 2, 18; IC305B PIN 10.	
11.	IC305 PIN 7.	
12.	IC305 PIN 12.	
13.	IC305 PIN 13.	
14.	IC306C PIN 3.	
15.	IC306 PINS 5 AND 11.	
16.	IC306A PIN 12; IC307 PIN 12.	
17.	IC307 PINS 9, 10, 11.	
18.	P302-5; Q303 EMITTER	
19.	Q318 SOURCE.	
20.	Q325 COLLECTOR.	
21.	Q307 COLLECTOR, JUNCTION OF D2E2 AND R203.	
22.	Q201 COLLECTOR.	
23.	Q203 COLLECTOR.	
24.	Q204 COLLECTOR.	
25.	Q205 COLLECTOR.	
26.	Q206 BASE.	
27.	Q308 COLLECTOR.	
28.	Q211 BASE.	
29.	Q214 COLLECTOR.	
30.	Q103 COLLECTOR. FREQUENCY IS APPROXIMATELY 15KHZ. TIME NOT RELATED TO WAVEFORM 1.	
31.	-GLIP THE PARADE CABLE INDUCTIVE PICKUP AROUND THE RED YOKE LEAD. -WAVEFORM 32 BECOMES THE TIME REFERENCE FOR WAVEFORMS 34 AND 35. -WAVEFORM 33 IS EXPANDED TO SHOW WAVEFORM 32 IN DETAIL. -SUPERIMPOSE, PRESSED-IN.	
32.	COLLECTOR OF Q301.	
33.	COLLECTOR OF Q301.	
34.	IC304A PIN 13.	
35.	IC304B PIN 12.	

**SCHEMATIC OF THE HEATHKIT® 12" SOLID-STATE DELUXE IGNITION ANALYZER MODEL CO-2600**

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NOTES:

- CIRCUIT COMPONENTS ARE NUMBERED ACCORDING TO THE FOLLOWING CATEGORIES:  
1 - 99 PARTS ON CHASSIS, FRONT PANEL, AND PICK-UP ASSEMBLY.  
101 - 199 PARTS ON POWER SUPPLY CIRCUIT BOARD.  
201 - 299 PARTS ON TACH/VOLTS CIRCUIT BOARD.  
301 - 399 PARTS ON SPECIAL FUNCTIONS CIRCUIT BOARD.  
401 - 499 PARTS ON CYLINDER SHORTING CIRCUIT BOARD.  
500H-594H PARTS ON HORIZONTAL AMPLIFIER CIRCUIT BOARD.  
500V-595V PARTS ON VERTICAL AMPLIFIER CIRCUIT BOARD.
- RESISTORS ARE 1/2 WATT UNLESS MARKED OTHERWISE. RESISTOR VALUES ARE IN OHMS (Ω), 1000 (K), 1,000,000 (M).
- CAPACITORS VALUES LESS THAN 1 ARE IN μF. CAPACITOR VALUES 1 OR ABOVE ARE IN pF UNLESS MARKED OTHERWISE.

- VOLTAGE MEASUREMENTS WERE TAKEN USING A HIGH INPUT IMPEDANCE VOLTMETER FROM THE POINT INDICATED TO CHASSIS GROUND. VOLTAGES MAY VARY ±20%.
- ALL PARTS WITHIN THE DASHED LINE AREA ARE MOUNTED ON A CIRCUIT BOARD, EXCEPT Q303 WHICH DENOTES A PART MOUNTED ON THE CHASSIS BUT APPEARS WITHIN A CIRCUIT BOARD OUTLINE.
- THIS SYMBOL INDICATES A DC VOLTAGE MEASUREMENT FROM THE POINT INDICATED TO CHASSIS GROUND.
- THIS SYMBOL INDICATES A DC VOLTAGE FROM POINT INDICATED TO GROUND WITH "0" VOLTS AT P501-7V. VOLTAGES WILL VARY WITH SETTING OF VERT POS CONTROL.
- THIS SYMBOL INDICATES A DC VOLTAGE FROM POINT INDICATED TO GROUND WITH "0" VOLTS AT P501-7H. VOLTAGES WILL VARY WITH SETTING OF HORIZ POS CONTROL.
- THIS SYMBOL INDICATES CIRCUIT GROUND (COMMON POINT) ON CIRCUIT BOARD.
- THIS SYMBOL INDICATES CHASSIS GROUND.

