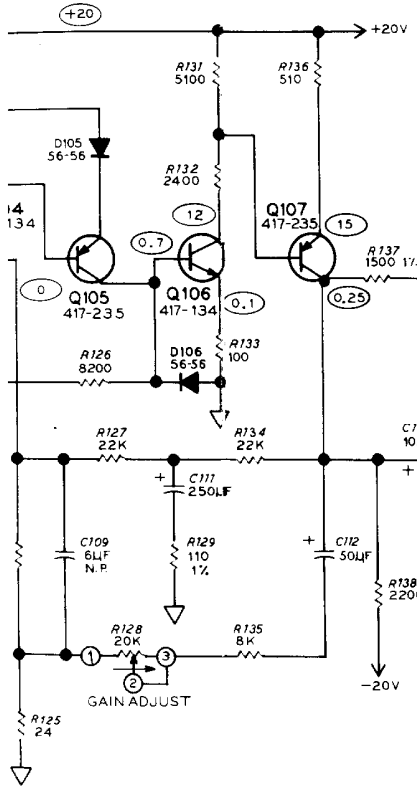
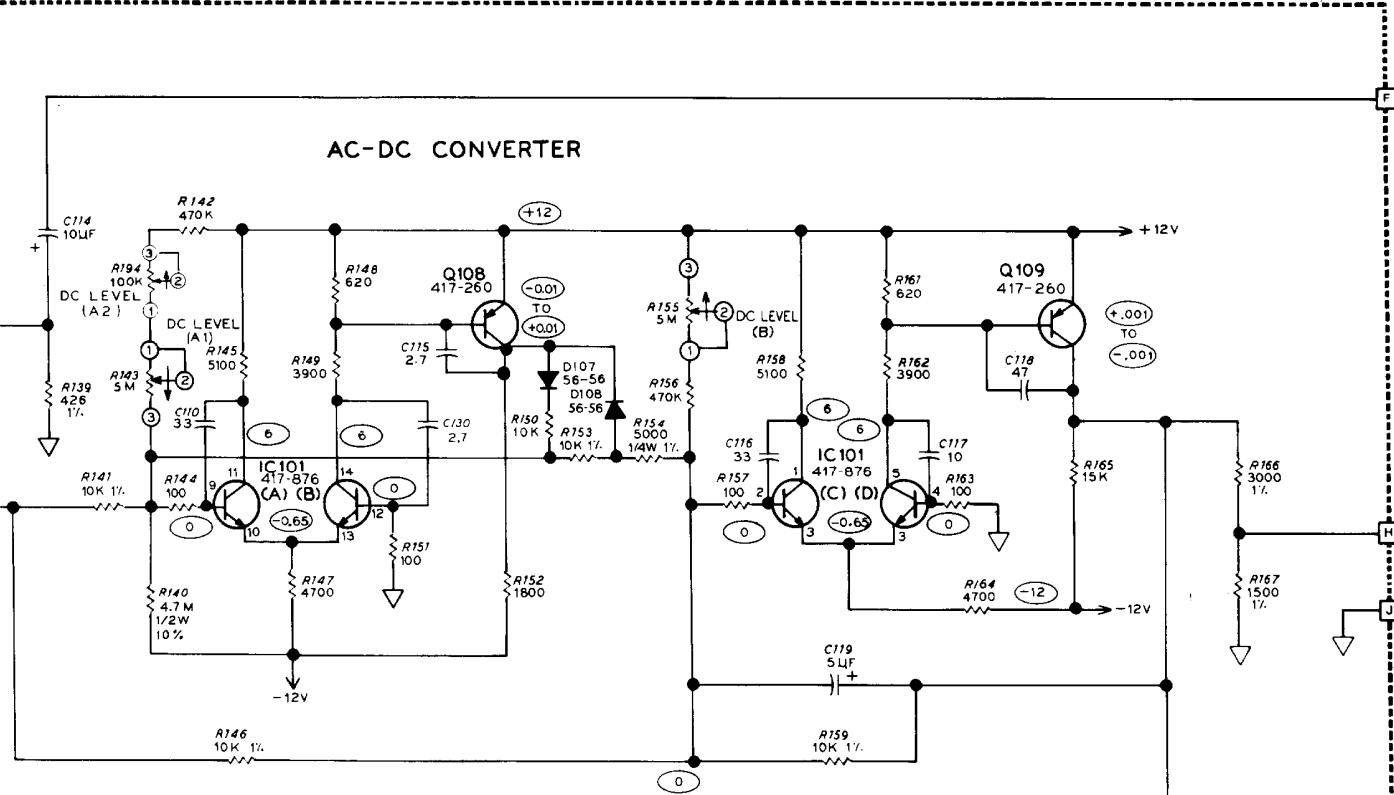


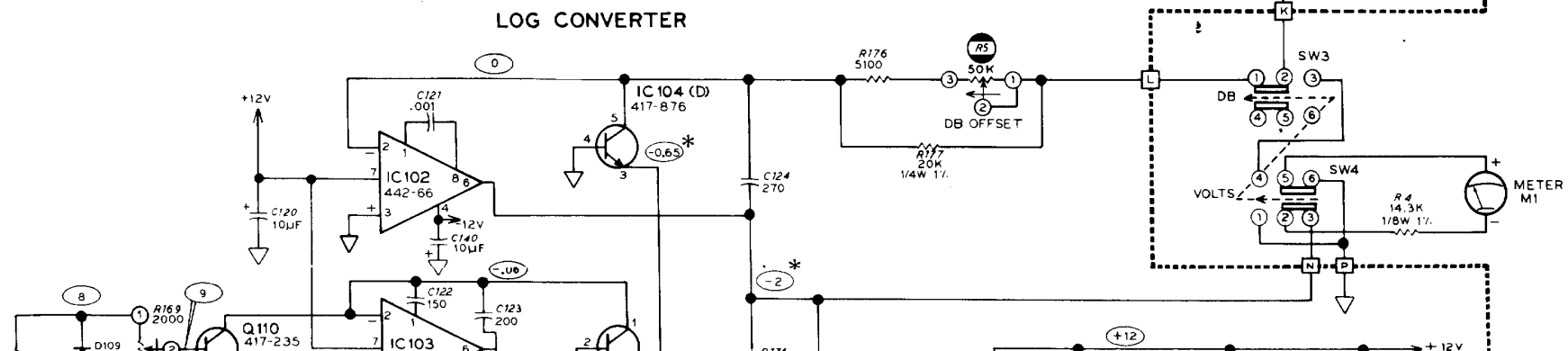
**AMPLIFIER**



**AC-DC CONVERTER**



**LOG CONVERTER**



J3 AC OUT

J4 GND

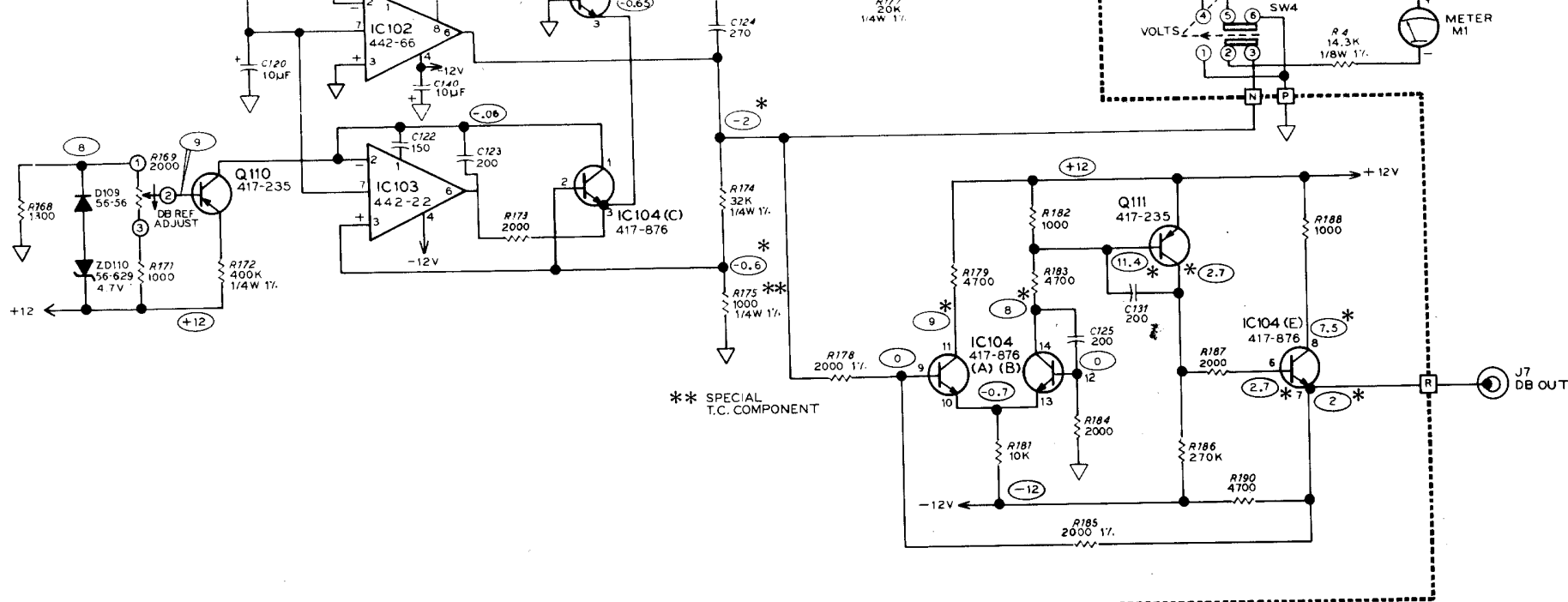
J5 D.C. VOLT OUT







J6 GND

VOLTS

METER M1

+12V



7.  INDICATES A DC VOLTAGE WITH A 1KHz, 0.775-VOLT SIGNAL APPLIED TO THE VOLTMETER INPUT. "0" dB RANGE, dB FUNCTION.
8.  INDICATES CIRCUIT BOARD GROUND.
9.  INDICATES A CHASSIS GROUND.
10.  INDICATES CLOCKWISE ROTATION OF A CONTROL.
11.  INDICATES A CIRCUIT BOARD CONNECTION POINT.
12.  INDICATES A COMPONENT MOUNTED TO THE CHASSIS AND TO THE CIRCUIT BOARD.
13. SEMICONDUCTOR IDENTIFICATION CHARTS ARE ON PAGES 55 AND 56.
14. X RAY VIEW IS IN THE ILLUSTRATION BOOKLET.

# SEMICONDUCTOR IDENTIFICATION CHARTS

## DIODES

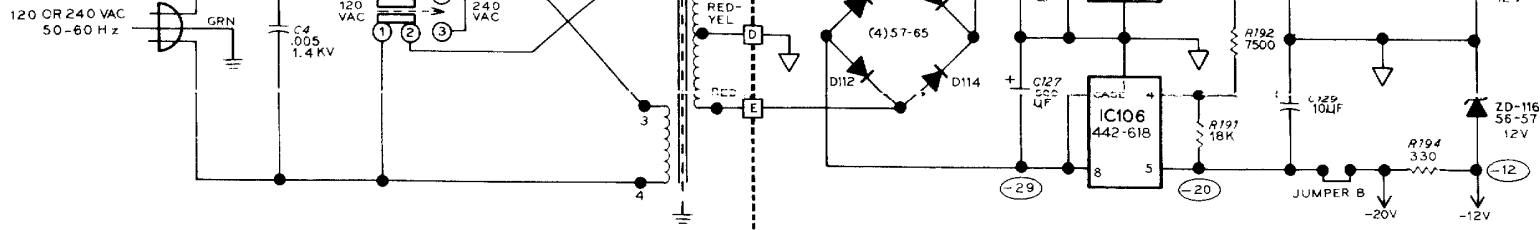
COMPONENT	HEATH PART NO.	MANUFACTURER'S NUMBER	IDENTIFICATION
D101 THROUGH D109	56-56	1N4149	<p>IMPORTANT: THE BANDED END OF DIODES CAN BE MARKED IN A NUMBER OF WAYS.</p> <p>BANNED END</p>
ZD110	56-629	BZX83C3V	
D111 THROUGH D114	57-65	1N4002	
ZD115, ZD116	56-57	1N716A	

## TRANSISTORS

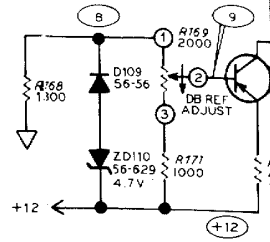
COMPONENT	HEATH PART NO.	MANUFACTURER'S NUMBER	IDENTIFICATION
Q101	417-802	E304	
Q102, Q105, Q107, Q110, Q111	417-235	2N4121	
Q103, Q104, Q106	417-134	MPS6520	
Q108, Q109	417-260	2N4258A	

**INTEGRATED CIRCUITS**

COMPONENT	HEATH PART NO.	MANUFACTURER'S NUMBER	BASE DIAGRAM (TOP VIEW)
IC101, IC104	417-876	CA3046	
IC103	442-22	741	
IC102	442-66	308	
			IDENTIFICATION
IC105	442-617	78MGC	
IC106	442-618	79MCC	



POWER SUPPLY



**SCHEMATIC OF THE  
HEATHKIT®  
AC VOLTMETER  
MODEL IM-5238**

Part of 595-1868-04

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NOTES:

1. THE COMPONENT IDENTIFICATION NUMBERS ON THE AC VOLTMETER ARE IN THE FOLLOWING GROUPS:  
 1-99 CHASSIS-MOUNTED PARTS  
 101-199 CIRCUIT BOARD PARTS
2. RESISTOR VALUES ARE IN OHMS ( $\Omega$ ): K=1000, M=1,000,000.
3. RESISTORS ARE 1/4-WATT, 5% TOLERANCE UNLESS OTHERWISE NOTED.
4. CAPACITOR VALUES LESS THAN 1 ARE IN  $\mu$ F (MICROFARADS); CAPACITOR VALUES OF 1 OR GREATER ARE IN pF (PICOFARADS), UNLESS OTHERWISE NOTED.
5. THE RANGE SWITCH IS SHOWN IN ITS COUNTERCLOCKWISE (1mV) POSITION.
6. INDICATES A DC VOLTAGE MEASUREMENT TAKEN WITH A HIGH-INPUT IMPEDANCE VOLTMETER FROM THE POINT INDICATED TO CHASSIS GROUND. TOLERANCE;  $\pm 20\%$ .

7. INDICATES A DC VOL APPLIED TO THE VOL
8. INDICATES CIRCUIT
9. INDICATES A CHASS
10. INDICATES CLOCKWI
11. INDICATES A CIRCU
12. INDICATES A COMPO AND TO THE CIRCUIT
13. SIMICONDUCTOR IDENT
14. X-RAY VIEW IS IN THE