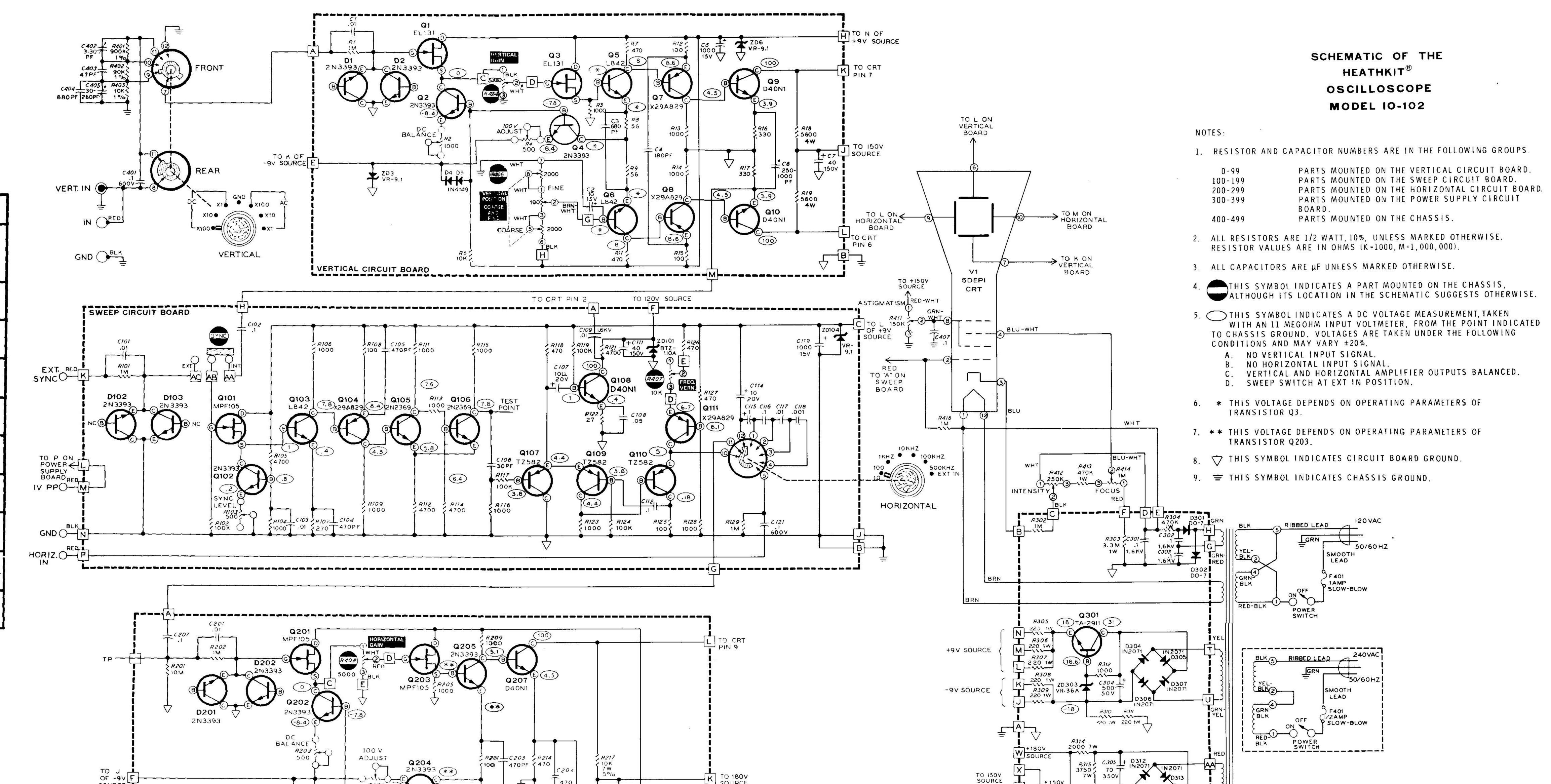
IDENTIFICATION CHART

HEATH PART NUMBER	MANUFACTURER'S NUMBER	BASING
417-83 417-118 417-201 417-221	L842 2N3393 X29A829 TZ582	COLLECTOR
417-154	2N2369	EMITTER BASE COLLECTOR
417-241 417-169	EL131 MPF105	GATE O DRAIN O SOURCE
417-175	2N 5 2 9 4	COLLECTOR BASE
417-245	D40N1	COLLECTOR OBASE OEMITTER
56-19	VR-9.1, 9.1V, 25mA ZENER	
56-55	VR-36A, 36V, 4mA ZENER	
56-56	1 N 41 49	
57-27	1N2071	
57-52	DO-7	

HORIZONTAL CIRCUIT BOARD



100K

IDENTIFICATION CHART

HEATH PART NUMBER	MANUFACTURER'S NUMBER	BASING
417-83 417-118 417-201 417-221	L842 2N3393 X29A829 TZ582	COLLECTOR
417-154	2N2369	EMITTER BASE COLLECTOR
417-241 417-169	EL131 MPF105	GATE O DRAIN O SOURCE
417-175	2N 5 2 9 4	COLLECTOR BASE
417-245	D40N1	COLLECTOR OBASE OEMITTER
56-19	VR-9.1, 9.1V, 25mA ZENER	
56-55	VR-36A, 36V, 4mA ZENER	
56-56	l N 41 49	
57-27	1N2071	
57-52	DO-7	

SCHEMATIC OF THE HEATHKIT® OSCILLOSCOPE MODEL 10-102

NOTES:

1. RESISTOR AND CAPACITOR NUMBERS ARE IN THE FOLLOWING GROUPS.

0-99	PARTS MOUNTED ON THE VERTICAL CIRCUIT BOARD.
100-199	PARTS MOUNTED ON THE SWEEP CIRCUIT BOARD.
200-299	PARTS MOUNTED ON THE HORIZONTAL CIRCUIT BOARD.
300-399	PARTS MOUNTED ON THE POWER SUPPLY CIRCUIT
	BOARD.
400-499	PARTS MOUNTED ON THE CHASSIS.

- 2. ALL RESISTORS ARE 1/2 WATT, 10%, UNLESS MARKED OTHERWISE. RESISTOR VALUES ARE IN OHMS (K=1000, M=1,000,000).
- 3. ALL CAPACITORS ARE UF UNLESS MARKED OTHERWISE.
- 4. THIS SYMBOL INDICATES A PART MOUNTED ON THE CHASSIS, ALTHOUGH ITS LOCATION IN THE SCHEMATIC SUGGESTS OTHERWISE.
- THIS SYMBOL INDICATES A DC VOLTAGE MEASUREMENT, TAKEN WITH AN 11 MEGOHM INPUT VOLTMETER, FROM THE POINT INDICATED TO CHASSIS GROUND. VOLTAGES ARE TAKEN UNDER THE FOLLOWING CONDITIONS AND MAY VARY ±20%.
 - A. NO VERTICAL INPUT SIGNAL.
 - B. NO HORIZONTAL INPUT SIGNAL.
 - C. VERTICAL AND HORIZONTAL AMPLIFIER OUTPUTS BALANCED.
 - D. SWEEP SWITCH AT EXT IN POSITION.
- 6. * THIS VOLTAGE DEPENDS ON OPERATING PARAMETERS OF TRANSISTOR Q3.
- 7. ** THIS VOLTAGE DEPENDS ON OPERATING PARAMETERS OF TRANSISTOR Q203.
- 8. THIS SYMBOL INDICATES CIRCUIT BOARD GROUND.
- 9. = THIS SYMBOL INDICATES CHASSIS GROUND.

