

PARTS LIST

Check each part against the following list and the "Parts Pictorial" (Illustration Booklet, Page 1 and 2). The key numbers correspond to the numbers on the "Parts Pictorial." Return any part that is packed in an individual envelope, with the part number on it, back into its envelope until that part is called for in a step. Do not throw away any packing material until you account for all the parts.

To order a replacement part, always include the PART NUMBER. Use the Parts Order Form furnished with this kit. If a Parts Order Form is not available, refer to "Replacement Parts" inside the rear cover of this Manual. For prices, refer to the separate "Heath Parts Price List."

KEY No.	HEATH Part No.	QTY.	DESCRIPTION	CIRCUIT Comp. No.
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RESISTORS

NOTE: The following resistors are 1/4-watt and have 5% tolerance (gold fourth band) unless stated otherwise.

A1	6-189-12	2	1.8 Ω (brn-gray-gld)	R105,R115
A1	6-470-12	1	47 Ω (yel-viol-blk)	R8
A2	6-221-1	2	220 Ω , 1-watt (red-red-brn)	R102,R112
A1	6-561-12	1	560 Ω (grn-blu-brn)	R14
A1	6-392-12	1	3900 Ω (org-wht-red)	R15
A1	6-182-12	1	1800 Ω (brn-gry-red)	R101
A1	6-222-12	1	2200 Ω (red-red-red)	R13
A1	6-472-12	1	4700 Ω (yel-viol-red)	R12
A1	6-512-12	1	5100 Ω (grn-brn-red)	R3
A1	6-103-12	3	10 k Ω (brn-blk-org)	R1,R2,R11
A1	6-303-12	1	30 k Ω (org-blk-org)	R7
A1	6-473-12	1	47 k Ω (yel-viol-org)	R6
A1	6-563-12	2	56 k Ω (grn-blu-org)	R113,R103
A1	6-154-12	1	150 k Ω (brn-grn-yel)	R10
A1	6-334-12	1	330 k Ω (org-org-yel)	R4

CAPACITORS

B1	20-198	1	5 pF mica	C2
B1	20-103	2	150 pF mica	C1,C7
B2	21-163	2	.001 μ F ceramic	C104,C114
B2	21-192	2	.1 (104M) μ F ceramic	C102,C112
B3	27-70	2	.0022 μ F Mylar	C5,C6
B3	27-137	2	.02 μ F Mylar	C3,C4
B4	25-865	2	10 μ F electrolytic	C103,C113
B4	25-876	2	1000 μ F electrolytic	C101,C111

CONTROLS

C1	10-1054	1	1000 (1k) Ω	R122
C1	10-1053	2	3000 (3k) Ω	R104,R114
C1	10-1055	1	100 k Ω	R121
C2	12-184	1	200 k Ω /5 k Ω dual	R5/R9

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DIODES

D1	56-56	4	1N4149	D1,D2, D106,D116
D1	56-99	2	1N5223B	ZD1,ZD2
D1	56-620	2	1N4744A	ZD101, ZD111
D1	57-65	4	1N4002	D101,D102, D103,D104
D2	412-640	1	LED LST5053 (red)	V101

TRANSISTORS — INTEGRATED CIRCUIT (IC)

NOTE: Transistors and the integrated circuit are marked for identification in one of the following four ways:

1. Part number.
2. Type number. (On the integrated circuit, use only the numbers. The letters may be different or missing.)
3. Part number and type number.
4. Part number with a type number other than the one listed.

D3	417-235	3	2N4121 transistor	Q111,Q113, Q114
D3	417-801	5	MPSA20 transistor	Q1,Q2, Q101,Q103, Q104
D4	417-856	1	MJE5979 transistor	Q102
D4	417-857	1	MJE5976 transistor	Q112
D5	442-39	2	LM301 integrated circuit	U1,U2

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SWITCHES — INSULATORS

E1	60-78	1	DPDT slide switch	SW1
E2	60-607	1	SPST rocker switch	SW101
E3	73-92	1	Foam tape (5" × 3/4")	
E4	75-52	1	Switch insulator	
E5	75-724	1	Insulator plate	
E6	75-29	1	Strain relief	
	75-809	1	Insulator paper	

HARDWARE

NOTE: The hardware is shown full size so you can place any nut, screw, etc. you are uncertain about over the drawing. Also, the hardware may be packed in more than one packet. Open all the hardware packets (marked HDW) before you check the hardware against the Parts List.

#4 Hardware

F1	250-163	3	#4 × 5/16" self-tapping screw
F2	250-1412	2	4-40 × 3/8" screw
F3	252-2	2	4-40 nut
F4	254-9	2	#4 lockwasher

#6 Hardware

G1	250-1325	4	6-32 × 1/4" screw
G2	250-1420	1	6-32 × 3/8" screw
G3	250-1434	9	#6 × 3/8" self-tapping screw
G4	250-1435	1	#6 × 1/2" self-tapping screw
G5	250-1460	8	#6 × 5/8" self-tapping flat head screw
G6	250-1137	2	#6 × 1-1/8" screw
G7	252-3	1	6-32 nut
G8	252-170	2	#6 brass insert
G9	254-1	2	#6 lockwasher

Other Hardware

H1	253-9	1	#8 flat washer
H2	252-7	5	Control nut
H3	253-10	5	Control flat washer
H4	254-4	5	Control lockwasher

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WIRE — SLEEVING — LINE CORD

344-3	2	Red stranded wire	
344-52	5	Red solid wire	
344-50	5	Black wire	
344-51	3	Brown wire	
344-53	3	Orange wire	
344-54	5	Yellow wire	
344-55	3	Green solid wire	
344-155	15	Green stranded wire	
344-56	3	Blue wire	
346-1	6"	Small sleeving	
346-35	2-1/2"	Heat-shrinkable sleeving	
89-54	1	Line cord	

CONNECTORS — SOCKET

J1	432-874	15	Wire connector
J2	432-875	1	Breadboard
J3	434-230	2	8-pin IC socket

MISCELLANEOUS

K1	54-1005	1	Transformer	T101
	85-2730-1	1	Circuit board	
K2	92-775	1	Cabinet top	
K3	92-776	1	Cabinet bottom	
K4	204-2539	1	Relief plate	
K5	207-3	1	Cable clamp	
K6	215-601	2	Heat sink	
K7	260-700	1	Plastic grommet	
K8	261-28	4	Foot	
K9	352-13	1	Grease	
K10	421-33	1	1/4-ampere slow-blow fuse	F101
K11	423-11	1	Fuseholder	
K12	455-50	5	Bushing	
K13	462-399	5	Knob	
K14	490-5	1	Nut starter	
K15	490-111	1	IC puller	
K16	390-1872	1	FCC label	
K17	390-2303	1	Nameplate	
K18	390-2328	1	Caution label	
K19		1	Blue and white label	
K20	431-44	1	4-lug terminal strip	
	597-260	1	Parts Order Form	
		1	Assembly Manual (see Page 1 for part number)	
			Solder	

