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OPERATING AND SERVICE MANUAL

MODEL 6200B

DC POWER SUPPLY

MANUFACTURING CODE 6A

OPERATING AND SERVICE MANUAL

HEWLETT PACKARD hp HARRISON DIVISION

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January, 1966

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SECTION VI
REPLACEABLE PARTS

6-1 INTRODUCTION

6-2 This section contains information for ordering replacement parts.

6-3 Table 6-1 lists parts in the alpha-numerical order of the circuit designators and provides the following information:

A. Description (See list of abbreviations below).
B. Total quantity used in the instrument.
C. Manufacturer's part number.
D. The Manufacturer's code number as listed in the Federal Supply Code for Manufacturers H4-1.
E. The H-P Stock Number.
F. The recommended spare parts quantity for complete maintenance during one year of isolated service. (Column A).

6-4 ORDERING INFORMATION

6-5 To order a replacement part, address order or inquiry to your local Hewlett-Packard field office (see lists at rear of this manual for addresses).

6-6 Specify the following information for each part:

A. Model and complete serial number of instrument.
B. Hewlett-Packard stock number.
C. Circuit reference designator.
D. Description.

6-7 To order a part not listed in the tables, give a complete description of the part and include its function and location.

Reference Designators

A	=	assembly	K	=	relay	T	=	transformer
B	=	motor	L	=	inductor	V	=	vacuum tube, neon blub, photocell, etc.
C	=	capacitor	M	=	meter			
CR	=	diode	P	=	plug	X	=	socket
DS	=	device signaling (lamp)	Q	=	transistor	XF	=	fuseholder
E	=	misc. electronic part	R	=	resistor	XDS	=	lampholder
F	=	fuse	RT	=	thermistor	Z	=	network
J	=	jack	S	=	switch			

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ABBREVIATIONS

a	=	amperes
c	=	carbon
cer	=	ceramic
coef	=	coefficient
com	=	common
comp	=	composition
conn	=	connection
crt	=	cathode-ray tube
dep	=	deposited
elect	=	electrolytic
encap	=	encapsulated
f	=	farads
fxd	=	fixed
GE	=	germanium
grd	=	ground (ed)
h	=	henries
Hg	=	mercury
impg	=	impregnated
ins	=	insulation (ed)
lin	=	linear taper
log	=	logarithmic taper
m	=	milli = 10^{-3}
M	=	megohms
ma	=	milliamperes
μ	=	micro = 10^{-6}
mfr	=	manufacturer
mtg	=	mounting
my	=	mylar
NC	=	normally closed
Ne	=	neon
NO	=	normally open
nsr	=	not separately replaceable
K	=	kilo = 1000
obd	=	order by description
p	=	peak
pc	=	printed circuit board
pf	=	picofarads = 10^{-12} farads
pp	=	peak-to-peak
ppm	=	parts per million
pos	=	position (s)
poly	=	polystyrene
pot	=	potentiometer
prv	=	peak reverse voltage
rect	=	rectifier
rot	=	rotary
rms	=	root-mean-square
s-b	=	slow-blow
sect	=	section (s)
Si	=	silicon
sil	=	silver
sl	=	slide
td	=	time delay
TiO_2	=	titanium dioxide
tog	=	toggle
tol	=	tolerance
trim	=	trimmer
twt	=	traveling wave tube
var	=	variable
w/	=	with
W	=	watts
ww	=	wirewound
w/o	=	without
cmo	=	cabinet mount only

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6-8 CODE LIST OF MANUFACTURERS (Sheet 1 of 2)

The following code numbers are from the Federal Supply Code for Manufacturers Cataloging Handbooks H4-1 (Name to Code) and H4-2 (Code to Name) and their latest supplements. The date of revision and the date of the supplements used appear at the bottom of each page. Alphabetical codes have been arbitrarily assigned to suppliers not appearing in the H4 handbooks.

CODE NO.	MANUFACTURER	ADDRESS
00334	Humidial Co.	Colton, Calif.
00335	Westrex Corp.	New York, N.Y.
00373	Garlock Packing Co., Electronic Products Div.	Camden, N.J.
00656	Aerovox Corp.	New Bedford, Mass.
00779	Amp, Inc.	Harrisburg, Pa.
00781	Aircraft Radio Corp.	Boonton, N.J.
00815	Northern Engineering Laboratories, Inc.	Burlington, Wis.
00853	Sangamo Electric Company, Ordill Division (Capacitors)	Marion, Ill.
00866	Goe Engineering Co.	Los Angeles, Calif.
00891	Carl E. Holmes Corp.	Los Angeles, Calif.
01121	Allen Bradley Co.	Milwaukee, Wis.
01255	Litton Industries, Inc.	Beverly Hills, Calif.
01281	Pacific Semiconductors, Inc.	Culver City, Calif.
01295	Texas Instruments, Inc. Transistor Products Div.	Dallas, Texas
01349	The Alliance Mfg. Co.	Alliance, Ohio
01561	Chassi-Trak Corp.	Indianapolis, Ind.
01589	Pacific Relays, Inc.	Van Nuys, Calif.
01930	Amerock Corp.	Rockford, Ill.
01961	Pulse Engineering Co.	Santa Clara, Calif.
02114	Ferroxcube Corp. of America	Saugerties, N.Y.
02286	Cole Mfg. Co.	Palo Alto, Calif.
02660	Amphenol-Borg Electronics Corp.	Chicago, Ill.
02735	Radio Corp. of America Semiconductor and Materials Div.	Somerville, N.J.
02771	Vocaline Co. of America, Inc.	Old Saybrook, Conn.
02777	Hopkins Engineering Co.	San Fernando, Calif.
03508	G.E. Semiconductor Products Dept.	Syracuse, N.Y.
03705	Apex Machine & Tool Co.	Dayton, Ohio
03797	Eldema Corp.	El Monte, Calif.
03877	Transitron Electronic Corp.	Wakefield, Mass.
03888	Pyrofilm Resistor Co.	Morristown, N.J.
03954	Air Marine Motors, Inc.	Los Angeles, Calif.
04009	Arrow, Hart and Hegeman Elect. Co.	Hartford, Conn.
04062	Elmenco Products Co.	New York, N.Y.
04222	Hi-Q Division of Aerovox	Myrtle Beach, S.C.
04298	Elgin National Watch Co., Electronics Division	Burbank, Calif.
04404	Dymec Division of Hewlett-Packard Co.	Palo Alto, Calif.
04651	Sylvania Electric Prods., Inc. Electronic Tube Div.	Mountain View, Calif.
04713	Motorola, Inc., Semiconductor Prod. Div.	Phoenix, Arizona
04732	Filtron Co., Inc. Western Division	Culver City, Calif.
04773	Automatic Electric Co.	Northlake, Ill.
04796	Sequoia Wire & Cable Company	Redwood City, Calif.
04870	P. M. Motor Co.	Chicago 44, Ill.
05006	Twentieth Century Plastics, Inc.	Los Angeles, Calif.
05277	Westinghouse Electric Corp., Semi-Conductor Dept.	Youngwood, Pa.
05347	Ultronix, Inc.	San Mateo, Calif.
05593	Illumitronic Engineering Co.	Sunnyvale, Calif.
05624	Barber Colman Co.	Rockford, Ill.
05729	Metropolitan Telecommunications Corp., Metro Cap. Div.	Brooklyn, N.Y.
05783	Stewart Engineering Co.	Santa Cruz, Calif.
06004	The Bassick Co.	Bridgeport, Conn.
06555	Beede Electrical Instrument Co., Inc.	Penacook, N.H.
06812	Torrington Mfg. Co., West Div.	Van Nuys, Calif.
07115	Corning Glass Works Electronic Components Dept.	Bradford, Pa.
07126	Digitran Co.	Pasadena, Calif.
07137	Transistor Electronics Corp.	Minneapolis, Minn.
07138	Westinghouse Electric Corp. Electronic Tube Div.	Elmira, N.Y.
07261	Avnet Corp.	Los Angeles, Calif.
07263	Fairchild Semiconductor Corp.	Mountain View, Calif.
07910	Continental Device Corp.	Hawthorne, Calif.
07933	Rheem Semiconductor Corp.	Mountain View, Calif.
07966	Shockley Semi-Conductor Laboratories	Palo Alto, Calif.
07980	Boonton Radio Corp.	Boonton, N.J.
08145	U.S. Engineering Co.	Los Angeles, Calif.
08358	Burgess Battery Co.	Niagara Falls, Ontario, Canada
08717	Sloan Company	Burbank, Calif.
08718	Cannon Electric Co. Phoenix Div.	Phoenix, Ariz.
08792	CBS Electronics Semiconductor Operations, Div. of C.B.S. Inc.	Lowell, Mass.
08994	Mel-Rain	Indianapolis, Ind.
09026	Babcock Relays, Inc.	Costa Mesa, Calif.
09134	Texas Capacitor Co.	Houston, Texas
09250	Electro Assemblies, Inc.	Chicago, Ill.
09569	Mallory Battery Co. of Canada, Ltd.	Toronto, Ontario, Canada
10214	General Transistor Western Corp.	Los Angeles, Calif.
10411	Ti-Tal, Inc.	Berkeley, Calif.
10646	Carborundum Co.	Niagara Falls, N.Y.
11236	CTS of Berne, Inc.	Berne, Ind.
11237	Chicago Telephone of California, Inc.	So. Pasadena, Calif.
11312	Microwave Electronics Corp.	Palo Alto, Calif.
11534	Duncan Electronics, Inc.	Santa Ana, Calif.
11711	General Instrument Corporation Semiconductor Division	Newark, N.J.
11717	Imperial Electronics, Inc.	Buena Park, Calif.
11870	Melabs, Inc.	Palo Alto, Calif.
12697	Clarostat Mfg. Co.	Dover, N.H.
14655	Cornell Dubilier Elec. Corp.	So. Plainfield, N.J.
15909	The Daven Co.	Livingston, N.J.
16688	De Jur-Amsco Corporation	Long Island City 1, N.Y.
16758	Delco Radio Div. of G. M. Corp.	Kokomo, Ind.
19873	E. I. DuPont and Co., Inc.	Wilmington, Del.
19315	Eclipse Pioneer, Div. of Bendix Aviation Corp.	Teterboro, N.J.
19500	Thomas A. Edison Industries, Div. of McGraw-Edison Co.	West Orange, N.J.
19701	Electra Manufacturing Co.	Kansas City, Mo.
20183	Electronic Tube Corp.	Philadelphia, Pa.
21520	Fansteel Metallurgical Corp.	No. Chicago, Ill.
21335	The Fafnir Bearing Co.	New Britain, Conn.
21964	Fed. Telephone and Radio Corp.	Clifton, N.J.
24446	General Electric Co.	Schenectady, N.Y.
24455	G.E., Lamp Division	Nela Park, Cleveland, Ohio
24655	General Radio Co.	West Concord, Mass.
26462	Grobet File Co. of America, Inc.	Carlstadt, N.J.
26992	Hamilton Watch Co.	Lancaster, Pa.
28480	Hewlett-Packard Co.	Palo Alto, Calif.
33173	G.E. Receiving Tube Dept.	Owensboro, Ky.
35434	Lectrohm Inc.	Chicago, Ill.
37942	P. R. Mallory & Co., Inc.	Indianapolis, Ind.
39543	Mechanical Industries Prod. Co.	Akron, Ohio
40920	Miniature Precision Bearings, Inc.	Keene, N.H.
42190	Muter Co.	Chicago, Ill.
43990	C. A. Norgren Co.	Englewood, Colo.
44655	Ohmite Mfg. Co.	Skokie, Ill.
47904	Polaroid Corp.	Cambridge, Mass.
48620	Precision Thermometer and Inst. Co.	Philadelphia, Pa.
49956	Raytheon Company	Lexington, Mass.
54294	Shallcross Mfg. Co.	Selma, N.C.
55026	Simpson Electric Co.	Chicago, Ill.
55933	Sonotone Corp.	Elmsford, N.Y.
55938	Sorenson & Co., Inc.	So. Norwalk, Conn.
56137	Spaulding Fibre Co., Inc.	Tonawanda, N.Y.
56289	Sprague Electric Co.	North Adams, Mass.
59446	Telex, Inc.	St. Paul, Minn.
61775	Union Switch and Signal, Div. of Westinghouse Air Brake Co.	Swissvale, Pa.
62119	Universal Electric Co.	Owosso, Mich.
64959	Western Electric Co., Inc.	New York, N.Y.
65092	Weston Inst. Div. of Daystrom, Inc.	Newark, N.J.
66346	Wollensak Optical Co.	Rochester, N.Y.
70276	Allen Mfg. Co.	Hartford, Conn.
70309	Allied Control Co., Inc.	New York, N.Y.
70485	Atlantic India Rubber Works, Inc.	Chicago, Ill.
70563	Amperite Co., Inc.	New York, N.Y.
70903	Belden Mfg. Co.	Chicago, Ill.
70998	Bird Electronic Corp.	Cleveland, Ohio
71002	Birnbach Radio Co.	New York, N.Y.
71041	Boston Gear Works Div. of Murray Co. of Texas	Quincy, Mass.
71218	Bud Radio Inc.	Cleveland, Ohio
71286	Camloc Fastener Corp.	Paramus, N.J.
71313	Allen D. Cardwell Electronic Prod. Corp.	Plainville, Conn.
71400	Bussmann Fuse Div. of McGraw-Edison Co.	St. Louis, Mo.
71450	CTS Corp.	Elkhart, Ind.
71468	Cannon Electric Co.	Los Angeles, Calif.
71471	Cinema Engineering Co.	Burbank, Calif.
71482	C. P. Clare & Co.	Chicago, Ill.
71528	Standard-Thomson Corp., Clifford Mfg. Co. Div.	Waltham, Mass.
71590	Centralab Div. of Globe Union Inc.	Milwaukee, Wis.
71700	The Cornish Wire Co.	New York, N.Y.
71744	Chicago Miniature Lamp Works	Chicago, Ill.
71753	A. O. Smith Corp., Crowley Div.	West Orange, N.J.
71785	Cinch Mfg. Corp.	Chicago, Ill.
71984	Dow Corning Corp.	Midland, Mich.
72136	Electro Motive Mfg. Co., Inc.	Willimantic, Conn.
72354	John E. Fast & Co.	Chicago, Ill.
72619	Dialight Corp.	Brooklyn, N.Y.
72656	General Ceramics Corp.	Keasbey, N.J.
72758	Girard-Hopkins	Oakland, Calif.
72765	Drake Mfg. Co.	Chicago, Ill.
72825	Hugh H. Eby Inc.	Philadelphia, Pa.
72928	Gudeman Co.	Chicago, Ill.
72982	Erie Resistor Corp.	Erie, Pa.
73061	Hansen Mfg. Co., Inc.	Princeton, Ind.
73138	Helipot Div. of Beckman Instruments, Inc.	Fullerton, Calif.
73293	Hughes Products Division of Hughes Aircraft Co.	Newport Beach, Calif.
73445	Amperex Electronic Co., Div. of North American Phillips Co., Inc.	Hicksville, N.Y.
73506	Bradley Semiconductor Corp.	Hamden, Conn.
73559	Carling Electric, Inc.	Hartford, Conn.
73682	George K. Garrett Co., Inc.	Philadelphia, Pa.
73734	Federal Screw Products Co.	Chicago, Ill.

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CODE NO.	MANUFACTURER	ADDRESS
73743	Fischer Special Mfg. Co.	Cincinnati, Ohio
73793	The General Industries Co.	Elyria, Ohio
73905	Jennings Radio Mfg. Co.	San Jose, Calif.
74455	J. H. Winns, and Sons	Winchester, Mass.
74861	Industrial Condenser Corp.	Chicago, Ill.
74868	R.F. Products Division of Amphenol-Borg Electronics Corp.	Danbury, Conn.
74970	E. F. Johnson Co.	Waseca, Minn.
75042	International Resistance Co.	Philadelphia, Pa.
75173	Jones, Howard B., Division of Cinch Mfg. Corp.	Chicago, Ill.
75378	James Knights Co.	Sandwich, Ill.
75382	Kulka Electric Corporation	Mt. Vernon, N.Y.
75818	Lenz Electric Mfg. Co.	Chicago, Ill.
75915	Littelfuse Inc.	Des Plaines, Ill.
76005	Lord Mfg. Co.	Erie, Pa.
76210	C. W. Marwedel	San Francisco, Calif.
76433	Micamold Electronic Mfg. Corp.	Brooklyn, N.Y.
76487	James Millen Mfg. Co., Inc.	Malden, Mass.
76493	J. W. Miller Co.	Los Angeles, Calif.
76530	Monadnock Mills	San Leandro, Calif.
76545	Mueller Electric Co.	Cleveland, Ohio
76854	Oak Manufacturing Co.	Crystal Lake, Ill.
77068	Bendix Pacific Division of Bendix Corp.	No. Hollywood, Calif.
77221	Phaostron Instrument and Electronic Co.	South Pasadena, Calif.
77252	Philadelphia Steel and Wire Corp.	Philadelphia, Pa.
77342	Potter and Brumfield, Div. of American Machine and Foundry	Princeton, Ind.
77630	Radio Condenser Co.	Camden, N.J.
77638	Radio Receptor Co., Inc.	Brooklyn, N.Y.
77764	Resistance Products Co.	Harrisburg, Pa.
78189	Shakeproof Division of Illinois Tool Works	Elgin, Ill.
78283	Signal Indicator Corp.	New York, N.Y.
78471	Tilley Mfg. Co.	San Francisco, Calif.
78488	Stackpole Carbon Co.	St. Marys, Pa.
78553	Tinnerman Products, Inc.	Cleveland, Ohio
78790	Transformer Engineers	Pasadena, Calif.
78947	Ucinite Co.	Newtonville, Mass.
79142	Veeder Root, Inc.	Hartford, Conn.
79251	Wenco Mfg. Co.	Chicago, Ill.
79727	Continental-Wirt Electronics Corp.	Philadelphia, Pa.
79963	Zierick Mfg. Corp.	New Rochelle, N.Y.
80031	Mepco Division of Sessions Clock Co.	Morristown, N.J.
80120	Schnitzer Alloy Products	Elizabeth, N.J.
80130	Times Facsimile Corp.	New York, N.Y.
80131	Electronic Industries Association Any brand tube meeting EIA standards	Washington, D.C.
80207	Unimax Switch, Div. of W. L. Maxson Corp.	Wallingford, Conn.
80248	Oxford Electric Corp.	Chicago, Ill.
80294	Bourns Laboratories, Inc.	Riverside, Calif.
80411	Acro Div. of Robertshaw Fulton Controls Co.	Columbus 16, Ohio
80486	All Star Products Inc.	Defiance, Ohio
80583	Hammerlund Co., Inc.	New York, N.Y.
80640	Stevens, Arnold, Co., Inc.	Boston, Mass.
81030	International Instruments, Inc.	New Haven, Conn.
81312	Winchester Electronics Co., Inc.	Norwalk, Conn.
81415	Wilkor Products, Inc.	Cleveland, Ohio
81453	Raytheon Mfg. Co., Industrial Components Div., Industr. Tube Operations	Newton, Mass.
81483	International Rectifier Corp.	El Segundo, Calif.
81860	Barry Controls, Inc.	Watertown, Mass.
82042	Carter Parts Co.	Skokie, Ill.
82142	Jeffers Electronics Division of Speer Carbon Co.	Du Bois, Pa.
82170	Allen B. DuMont Labs., Inc.	Clifton, N.J.
82209	Maguire Industries, Inc.	Greenwich, Conn.
82219	Sylvania Electric Prod. Inc., Electronic Tube Div.	Emporium, Pa.
82376	Astron Co.	East Newark, N.J.
82389	Switchcraft, Inc.	Chicago, Ill.
82647	Metals and Controls, Inc., Div. of Texas Instruments, Inc., Spencer Prods.	Attleboro, Mass.
82866	Research Products Corp.	Madison, Wis.
82877	Rotron Manufacturing Co., Inc.	Woodstock, N.Y.
82893	Vector Electronic Co.	Glendale, Calif.
83053	Western Washer Mfr. Co.	Los Angeles, Calif.
83058	Carr Fastener Co.	Cambridge, Mass.
83086	New Hampshire Ball Bearing, Inc.	Peterborough, N.H.
83125	Pyramid Electric Co.	Darlington, S.C.
83148	Electro Cords Co.	Los Angeles, Calif.
83186	Victory Engineering Corp.	Union, N.J.
83298	Bendix Corp., Red Bank Div.	Red Bank, N.J.
83330	Smith, Herman H., Inc.	Brooklyn, N.Y.
83501	Gavitt Wire and Cable Co., Div. of Amerace Corp.	Brookfield, Mass.
83594	Burroughs Corp., Electronic Tube Div.	Plainfield, N.J.
83777	Model Eng. and Mfg., Inc.	Huntington, Ind.
83821	Loyd Scruggs Co.	Festus, Mo.
84171	Arco Electronics, Inc.	New York, N.Y.
84396	A. J. Glesener Co., Inc.	San Francisco, Calif.
84411	Good All Electric Mfg. Co.	Ogallala, Neb.
84970	Sarkes Tarzian, Inc.	Bloomington, Ind.
85454	Boonton Molding Company	Boonton, N.J.
85474	R. M. Bracamonte & Co.	San Francisco, Calif.
85660	Koiled Kords, Inc.	New Haven, Conn.
85911	Seamless Rubber Co.	Chicago, Ill.
86197	Clifton Precision Products	Clifton Heights, Pa.
86684	Radio Corp. of America, RCA Electron Tube Div.	Harrison, N.J.
87216	Philco Corp. (Lansdale Division)	Lansdale, Pa.
87473	Western Fibrous Glass Products Co.	San Francisco, Calif.
88140	Cutler-Hammer, Inc.	Lincoln, Ill.
88220	Gould-National Batteries, Inc.	St. Paul, Minn.
89473	General Electric Distributing Corp.	Schenectady, N.Y.
89636	Carter Parts Div. of Economy Baler Co.	Chicago, Ill.
89665	United Transformer Co.	Chicago, Ill.
90179	U.S. Rubber Co., Mechanical Goods Div.	Passaic, N.J.
90970	Bearing Engineering Co.	San Francisco, Calif.
91260	Connor Spring Mfg. Co.	San Francisco, Calif.
91345	Miller Dial & Nameplate Co.	El Monte, Calif.
91418	Radio Materials Co.	Chicago, Ill.
91506	Augat Brothers, Inc.	Attleboro, Mass.
91637	Dale Electronics, Inc.	Columbus, Nebr.
91662	Elco Corp.	Philadelphia, Pa.
91737	Gremar Mfg. Co., Inc.	Wakefield, Mass.
91827	K F Development Co.	Redwood City, Calif.
91921	Minneapolis-Honeywell Regulator Co., Micro-Switch Division	Freeport, Ill.
92196	Universal Metal Products, Inc.	Bassett Puente, Calif.
93332	Sylvania Electric Prod. Inc., Semiconductor Div.	Woburn, Mass.
93369	Robbins and Myers, Inc.	New York, N.Y.
93410	Stevens Mfg. Co., Inc.	Mansfield, Ohio
93983	Insuline-Van Norman Ind., Inc. Electronic Division	Manchester, N.H.
94144	Raytheon Mfg. Co., Industrial Components Div., Receiving Tube Operation	Quincy, Mass.
94145	Raytheon Mfg. Co., Semiconductor Div., California Street Plant	Newton, Mass.
94148	Scientific Radio Products, Inc.	Loveland, Colo.
94154	Tung-Sol Electric, Inc.	Newark, N.J.
94197	Curtiss-Wright Corp., Electronics Div.	East Paterson, N.J.
94310	Tru Ohm Prod. Div. of Model Engineering and Mfg. Co.	Chicago, Ill.
94682	Worcester Pressed Aluminum Corp.	Worcester, Mass.
95236	Allies Products Corp.	Miami, Fla.
95238	Continental Connector Corp.	Woodside, N.Y.
95263	Leecraft Mfg. Co., Inc.	New York, N.Y.
95264	Lerco Electronics, Inc.	Burbank, Calif.
95265	National Coil Co.	Sheridan, Wyo.
95275	Vitramon, Inc.	Bridgeport, Conn.
95354	Methode Mfg. Co.	Chicago, Ill.
95987	Weckesser Co.	Chicago, Ill.
96067	Huggins Laboratories	Sunnyvale, Calif.
96095	Hi-Q Division of Aerovox	Olean, N.Y.
96256	Thordarson-Meissner Div. of Maguire Industries, Inc.	Mt. Carmel, Ill.
96296	Solar Manufacturing Co.	Los Angeles, Calif.
96330	Carlton Screw Co.	Chicago, Ill.
96341	Microwave Associates, Inc.	Burlington, Mass.
96501	Excel Transformer Co.	Oakland, Calif.
97464	Industrial Retaining Ring Co.	Irvington, N.J.
97539	Automatic and Precision Mfg. Co.	Yonkers, N.Y.
97966	CBS Electronics, Div. of C.B.S., Inc.	Danvers, Mass.
98141	Axel Brothers Inc.	Jamaica, N.Y.
98220	Francis L. Mosley	Pasadena, Calif.
98278	Microdot, Inc.	So. Pasadena, Calif.
98291	Sealectro Corp.	Mamaroneck, N.Y.
98405	Carad Corp.	Redwood City, Calif.
98734	Palo Alto Engineering Co., Inc.	Palo Alto, Calif.
98821	North Hills Electric Co.	Mineola, N.Y.
98925	Clevite Transistor Prod. Div. of Clevite Corp.	Waltham, Mass.
98978	International Electronic Research Corp.	Burbank, Calif.
99109	Columbia Technical Corp.	New York, N.Y.
99313	Varian Associates	Palo Alto, Calif.
99515	Marshall Industries, Electron Products Division	Pasadena, Calif.
99707	Control Switch Division, Controls Co. of America	El Segundo, Calif.
99800	Delevan Electronics Corp.	East Aurora, N.Y.
99848	Wilco Corporation	Indianapolis, Ind.
99934	Renbrandt, Inc.	Boston, Mass.
99942	Hoffman Semiconductor Div. of Hoffman Electronics Corp.	Evanston, Ill.
99957	Technology Instrument Corp. of Calif.	Newbury Park, Calif.

THE FOLLOWING H-P VENDORS HAVE NO NUMBER ASSIGNED IN THE LATEST SUPPLEMENT TO THE FEDERAL SUPPLY CODE FOR MANUFACTURERS HANDBOOK.

0000F	Malco Tool and Die	Los Angeles, Calif.
0000I	Telefunken (c/o American Elite)	New York, N.Y.
0000M	Western Coil Div. of Automatic Ind., Inc.	Redwood City, Calif.
0000N	Nahm-Bros. Spring Co.	San Leandro, Calif.
0000P	Ty-Car Mfg. Co., Inc.	Holliston, Mass.
0000T	Texas Instruments, Inc. Metals and Controls Div.	Versailles, Ky.
0000U	Tower Mfg. Corp.	Providence, R.I.
0000W	Webster Electronics Co. Inc.	New York, N.Y.
0000X	Spruce Pine Mica Co.	Spruce Pine, N.C.
0000Y	Midland Mfg. Co. Inc.	Kansas City, Kans.
0000Z	Willow Leather Products Corp.	Newark, N.J.
000AA	British Radio Electronics Ltd.	Washington, D.C.
000BB	Precision Instrument Components Co.	Van Nuys, Calif.
000CC	Computer Diode Corp.	Lodi, N.J.
000EE	A. Williams Manufacturing Co.	San Jose, Calif.
000FF	Carmichael Corrugated Specialties	Richmond, Calif.
000GG	Goshen Die Cutting Service	Goshen, Ind.
000HH	Rubbercraft Corp.	Torrance, Calif.
000II	Birtcher Corporation, Industrial Division	Monterey Park, Calif.
000KK	Amatom	New Rochelle, N.Y.
000LL	Avery Label	Monrovia, Calif.
000MM	Rubber Eng. & Development	Hayward, Calif.
000NNA	"N" D Manufacturing Co.	San Jose 27, Calif.
000PP	Atohm Electronics,	Sun Valley, Calif.
000QQ	Cooltron	Oakland, Calif.

From: F.S.C. Handbook Supplements
H4-1 Dated: April 1962
H4-2 Dated: March 1962

00015-25
Revised: 25 May 1962

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Circuit Reference Number	Description	Quantity	Mfg. Part # or Type	Mfg.	Mfg. Code *	Corporate Part #	A
C1	fxd, elect 4.7μf 50VDC	1	150D475X9050B2	Sprague	56289	0180-1731	2
C2,18	fxd, film .01μf 200VDC	2	192P10392	Sprague	56289	0160-0161	4
C3	fxd, film 0.1μf 200VDC	1	192P10492	Sprague	56289	0160-0168	2
C4,6,7,8,11,15	Not Assigned	-					
C5	fxd, film .001μf 200VDC	1	192P10292	Sprague	56289	0160-0153	2
C9	fxd, elect 4.7μf 35VDC	1	150D475X9035B2	Sprague	56289	0180-0100	
C10	fxd, elect 100μf 50VDC	1	D33218	Sprague	56289		2
C12,13,14	fxd, elect 490μf 75VDC	3	D38618	Sprague	56289		4
C16A	fxd, cer. .05μf 500VDC	1	33C58	Sprague	56289		2
C16B,17	Not Used	-					
C19	fxd, elect 15μf 50VDC	1	150D156X0050R2	Sprague	56289		2
C20	fxd, elect 80μf 300VDC	1	D39041	Sprague	56289		2
CR1-5,20,30,32	Rect, sil. 200ma 180PRV	8	1N485B	Sylv.	93332	1901-0033	10
CR6,7,10,12-16, 18,19,21,33	Not Assigned	-					
CR8,9,31,35	Diode, sil. 2.4V @ 100ma	4	GD8-001	GI	11711	1901-0460	6
CR11,17,22,23,24,25, 26,27,28,29,34	Rect. sil. 500ma 200PRV	11	1N3253	RCA	02735	1901-0026	15
DS1	Indicator lamp, neon	1	858-R	Sloan	08717	1450-0048	2
F1	Fuse cartridge 2A @ 250V 3AG	1	312002	Littelfuse	75915		3
J1,2	Not Used						

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Circuit Reference Number	Description	Quantity	Mfg. Part # or Type	Mfg.	Mfg. Code*	Corporate Part #	A
Q1, 2	SS NPN Diff Amp, Sil.	2	4JX12A839	GE	03508		4
Q3, 5, 8, 10, 12, 14, 15	SS PNP Sil.	7	2N3702	TI	01295	1853-0029	14
Q4	SS PNP Sil.	1	SJ203	HLAB	09182	1853-0040	2
Q6, 7	Power NPN Sil.	2	36616	HLAB	09182		4
Q9	SS NPN Sil.	1	2N3417	GE	03508	1854-0087	2
Q11, 13, 17	SS NPN Sil.	3	2N3391	GE	03508	1854-0071	4
Q16	Not Assigned	-					
R1	fxd, WW 1K ohm ±5% 3w 20ppm	1	242E1025	Sprague	56289		2
R2, 22, 23, 29	fxd, film 6.2K ohm ±1% 1/8w	4		IRC	07716		6
R3	fxd, film 15K ohm ±1% 1/8w	1		IRC	07716	0757-0446	2
R4, 64, 65	fxd, film 20K ohm ±1% 1/8w	3		IRC	07716	0757--0449	4
R5, 26, 76, 77	fxd, film 1.5K ohm ±1% 1/8w	4		IRC	07716	0757-0427	8
R6, 25	fxd, comp 360K ohm ±5% 1/2w	2		AB	01121	0686-3645	
R7	fxd, film 61.9K ohm ±1% 1/8w	1		IRC	07716	0757-0460	2
R8, 28	fxd, comp 560K ohm ±5% 1/2w	2		AB	01121	0686-5645	
R9, 11, 35, 36, 39, 40, 53, 79, 81, 82, 83, 37	Not Assigned	-					
R10	Var. WW DUAL 10K ohm - 100 ohm	1	100149-4	HLAB	09182	2100-0997	2
R12	fxd, WW 1, 3K ohm ±5% 3w 20ppm	1	242E1325	Sprague	56289		2
R13, 19	fxd, comp SELECTED ±5% 1/2w	2		AB	01121		
R14	fxd, comp 3.3 ohm ±5% 1/2w	1		AB	01121	0686-0335	
R15, 17	fxd, comp 160K ohm ±5% 1/2w	2		AB	01121	0686-1645	
R16	Var. WW DUAL 900-10 ohms	1	100149-1	HLAB	09182	2100-0994	2
R18	fxd, WW 3.3K ohm ±5% 3w 20ppm	1	242E3325	Sprague	56289		2
R20, 48	fxd, film 1K ohm ±5% 1/4w	2		IRC	07716	0757-0338	4
R21	fxd, comp 39 ohm ±5% 1/2w	1		AB	01121	0686-3905	

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Circuit Reference Number	Description	Quantity	Mfg. Part # or Type	Mfg.	Mfg. Code*	Corporate Part #	A
R24	fxd, film 4.75K ohm ±1% 1/8w	1		IRC	07716	0757-0437	2
R27, 32	fxd, WW .51 ohm ±5%	2	Type BWH	IRC	07716		4
R30	Var. WW 5K ohm (Modify)	1	Type 110-F4	CTS	11236		2
R31	fxd, comp 1K ohm ±5% 1/2w	1		AB	01121	0686-1025	
R33, 38	fxd, comp 10K ohm ±5% 1/2w	2		AB	01121	0686-1035	
R34	fxd, comp 150 ohm ±5% 1/2w	1		AB	01121	0686-1515	
R80	fxd, comp 33K ohm ±5% 1/2w	1		AB	01121	0686-3335	
R41	fxd, comp 12K ohm ±5% 1/2w	1		AB	01121	0686-1235	
R42	fxd, comp 6.8K ohm ±5% 1/2w	1		AB	01121	0686-6825	
R43	fxd, film 470 ohm ±1% 1/4w	1		IRC	07716		2
R44	fxd, comp 47K ohm ±5% 1/2w	1		AB	01121	0686-4735	
R45	fxd, comp 5.1K ohm ±5% 1/2w	1		AB	01121	0686-5125	
R46	fxd, comp 100K ohm ±5% 1/2w	1		AB	01121	0686-1045	
R47	fxd, comp 430 ohm ±5% 1/2w	1		AB	01121	0686-4315	
R49	fxd, WW 1.5K ohm ±5% 5w	1	Type 5XM	WL	63743		2
R50	fxd, comp 10 ohm ±5% 1/2w	1		AB	01121	0686-1005	
R51	fxd, comp 30K ohm ±5% 1/2w	1		AB	01121	0686-3035	
R52	fxd, comp 22K ohm ±5% 1/2w	1		AB	01121	0686-2235	
R54, 55	fxd, WW 2 ohm ±1% 12.5w 20ppm	2	Type 12.5SX	WL	63743		4
R56	Var. WW 1K ohm (Modify)	1	Type 110-F4	CTS	11236		2
R57, 60	fxd, film 900 ohm ±1% 1/8w	2		IRC	07716	0757-1099	4
R58, 59	fxd, film 100 ohm ±1% 1/8w	2		IRC	07716	0757-0401	4
R61	fxd, film 47.5K ohm ±1% 1/8w	1		IRC	07716	0757-0457	2
R62	fxd, comp 300 ohm ±5% 1/2w	1		AB	01121	0686-3015	
R63	Var. WW 10K ohm (Modify)	1	Type 110-F4	CTS	11236		2
R66, 67	fxd, film 3.40K ohm ±1% 1/4w	2		IRC	07716		4
R68, 69	fxd, film 365 ohm ±1% 1/4w	2		IRC	07716	0757-0723	4
R70, 71, 75, 84, 85, 86	fxd, film 3K ohm ±1% 1/8w	6		IRC	07716	0757-1093	6
R72	Var. WW 250 ohm (Modify)	1	Type 110-F4	CTS	11236		2
R73	fxd, film 750 ohm ±1% 1/8w	1		IRC	07716	0757-0420	2

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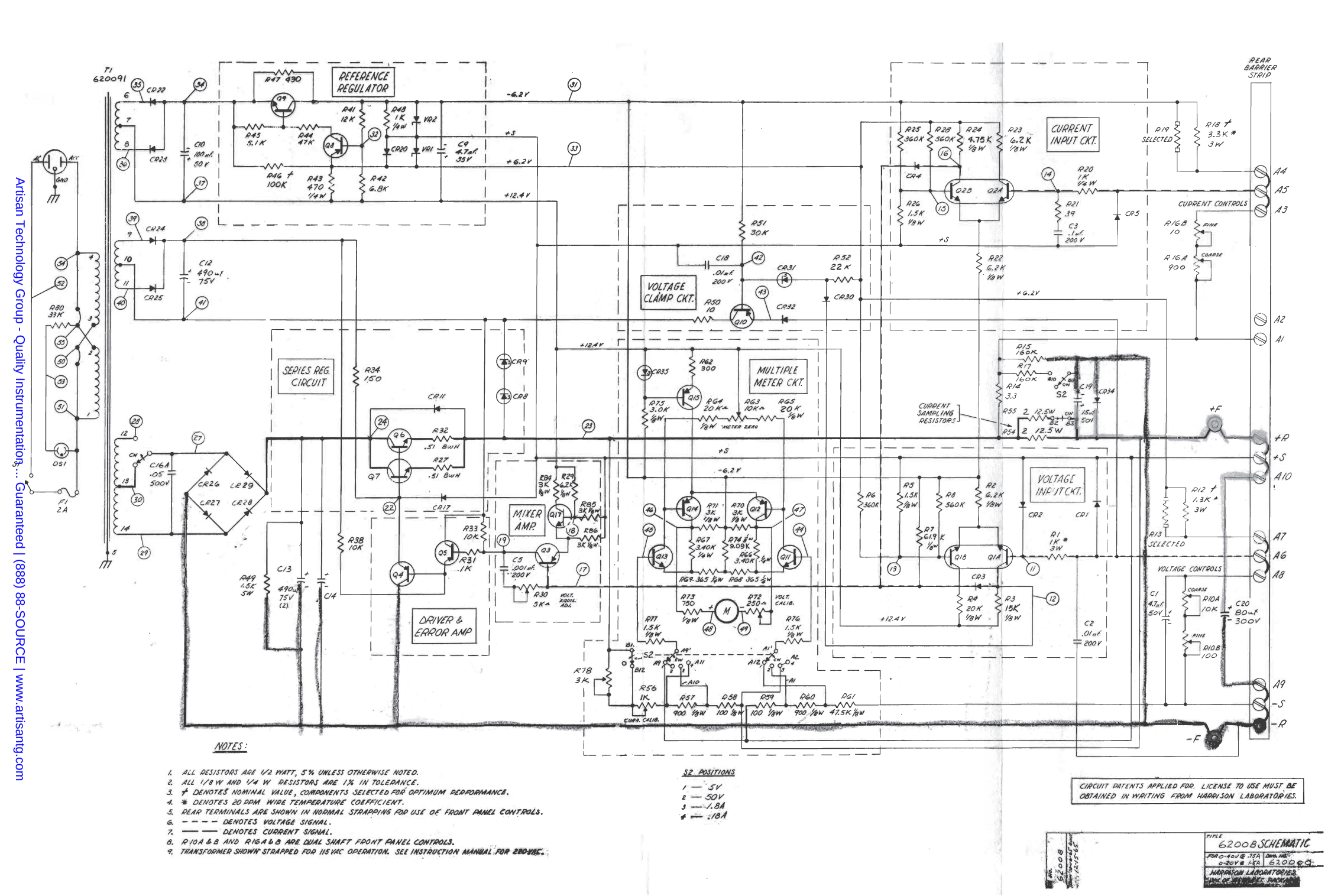
Circuit Reference Number	Description	Quantity	Mfg. Part # or Type	Mfg.	Mfg. Code *	Corporate Part #	A
R74	fxd, film 9.09K ohm ±1% 1/8w	1		IRC	07716	0757-0288	2
R78	Var. WW 3K ohm (Modify)	1	Type 110-F4	CTS	11236		2
S1	Switch SPST ON/OFF	1	T110-62	Carling	73559		1
S2	Meter, range rotary Switch (Concentric Shafts)	1	100319-A	HLAB	09182		1
T1	Power Transformer	1	620091	HLAB	09182		
VR1, 2	Diode, zener 6.2V	2	1N821	NA. Elect.	06486	1902-0761	4
	5 Way binding post	1	DF21RC	Superior	58474		2
	5 Way binding post	2	DF21BC	Superior	58474		4
	Line Cord plug PH151 7-1/2 ft.	1	HK-4701	Beldon	70903		2
	Strain relief bushing	1	SR-5P-1	Heyco	28520		2
	Jumper	8	422-13-11013	Cinch	71785		10
	Barrier Strip	1	100237-15	HLAB	09182		2
	Rubber Bumper	4	MB50-701	Stockwell	87575		4
	Rubber Bumper	3	4072	Stockwell	87575		3
	Knob 1/4 insert pointer	1		HLAB	09182	0370-0107	2
	Knob 17/64 insert pointer	2		HLAB	09182	0370-0101	4
	Knob, bar 1/8 insert pointer	1		HLAB	09182	0370-0102	2
	Knob 3/16 insert	2		HLAB	09182	0370-0179	4
	Bezel 1/6 Mod.	1		HLAB	09182	5040-0651	1
	Fuse holder	1	342014	Littelfuse	75915	1400-0048	2
	Meter hp 1/6 Mod. 1ma@88 ohm ±15%	1		HLAB	09182	1120-1139	1
	Spring	4		HLAB	09182	1460-0256	8
	Fastner	8	C8091632-4	Tinnerman	89032		12

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Circuit Reference Number	Description	Quantity	Mfg. Part # or Type	Mfg.	Mfg. Code *	Corporate Part #	A
	Mica Insulator	2	734	Reliance	08530		2
	Insulator, transistor pin	4	100146-1	HLAB	09182		4
	Insulator	4	100151-1	HLAB	09182		4

A = Recommended Spares Per 10 Units For One Year
* = As Listed In Federal Supply Code for Manufacturers' H4-1.

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NOTES:

1. ALL RESISTORS ARE 1/2 WATT, 5% UNLESS OTHERWISE NOTED.
2. ALL 1/8 W AND 1/4 W RESISTORS ARE 1% IN TOLERANCE.
3. † DENOTES NOMINAL VALUE, COMPONENTS SELECTED FOR OPTIMUM PERFORMANCE.
4. * DENOTES 20 PPM WIRE TEMPERATURE COEFFICIENT.
5. REAR TERMINALS ARE SHOWN IN NORMAL STRAPPING FOR USE OF FRONT PANEL CONTROLS.
6. – – – – DENOTES VOLTAGE SIGNAL.
7. ——— DENOTES CURRENT SIGNAL.
8. R10A & B AND R16A & B ARE DUAL SHAFT FRONT PANEL CONTROLS.
9. TRANSFORMER SHOWN STRAPPED FOR 115 VAC OPERATION. SEE INSTRUCTION MANUAL FOR 230 VAC.

S2 POSITIONS

1 — 5V
2 — 50V
3 — 1.8A
4 — .18A

CIRCUIT PATENTS APPLIED FOR. LICENSE TO USE MUST BE OBTAINED IN WRITING FROM HARRISON LABORATORIES.

TITLE	6200B SCHEMATIC
FOR 0-40V @ .75A 0-20V @ 1.5A	DWG. NO. 6200B-S
HARRISON LABORATORIES	

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MANUAL CHANGES

DC POWER SUPPLY
Model 6200B
Manual Manufacturing Code 6A

Check each change listed below to determine whether it applies to the serial number on your power supply. If it does apply, enter the appropriate change(s) in the supporting manual.

CHANGE 1. This change updates the manuals for units with serial numbers starting from 6A0101.

1. In the replaceable parts table, make the following changes;

   CR35: Delete reference number from first column and change quantity from "4" to "3".

   R40,62: Add R40 with R62 and change to read as follows:

Ckt. Ref. No.	Description	Quantity
R40,62	fxd, film 619 ohms ±1%, 1/4w	2

2. On the schematic, delete CR35 (connected to base of Q15) and connect R40 (619 ohms) in its place.

CHANGE 2. This change updates the manuals for units with serial numbers starting from 6A0251.

1. In the replaceable parts table, make the following changes;

   CR26,27,28,29: Delete present references from first column and change quantity from "11" to "7". Enter separately in table as follows:

Ckt. Ref. No.	Description	Quantity	Mfg. Part #	Mfg.
CR26,27,28,29	Rect. sil 500ma, 200prv	4	G100D	GI

   R54,55: Change tolerance from "±1%" to "±0.5%", wattage from "12.5w" to "8w", and "type" from "12.5SX" to "T-7A".

to ecn 790

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MANUAL CHANGES
DC POWER SUPPLY

This change affects Models 6200B, 6201B, 6202B, 6203B, 6204B, and 6206B.

CAUTION

It has been determined that certain special modes of operation may cause specific components within the power supplies listed above to exceed their ratings. Although there is no record of failure as a result of these special modes of operation, we are issuing this notice as a precautionary measure.

The only modes of operation which may under certain combinations of operating conditions place a strain on specific components within the power supply are:

1. Parallel Operation. However, use of Auto-Parallel operation is not restricted and will not result in any unusual component strain. Moreover, Auto-Parallel operation insures equal current sharing and is preferable to ordinary parallel operation in any case.

2. Battery Charge or Discharge -- under the condition that the battery voltage is greater than the front panel voltage control setting of the power supply.

3. Use of the power supply as a sink rather than a source, without the addition of a suitable preload resistor.

The above modes of operation result in an extra strain being placed on the "suck-down" transistor Q4, which has been included in the circuitry for the purpose of enhancing down-programming speed (of the order of 1 MS using a reducing value of output capacitors).

If the power supply is to be used in any of the above modes of operation, a diode may be added in series with the negative output terminal to prevent current from flowing backwards into the power supply and through transistor Q4. Negative sensing can be connected around this diode to retain normal regulation properties. A simple method of making this connection directly on the rear barrier strip is to remove strapping between terminals A9, -S, and "-", and then connect diode CR_S as shown on the sketch on the following page.

It is not recommended that this diode be added unless the supply will be used in one of the three modes of operation above, which would normally result in an external source forcing current backwards through the power supply terminals and through Q4. The addition of this diode has the disadvantage of degrading transient recovery and output impedance at high frequencies.

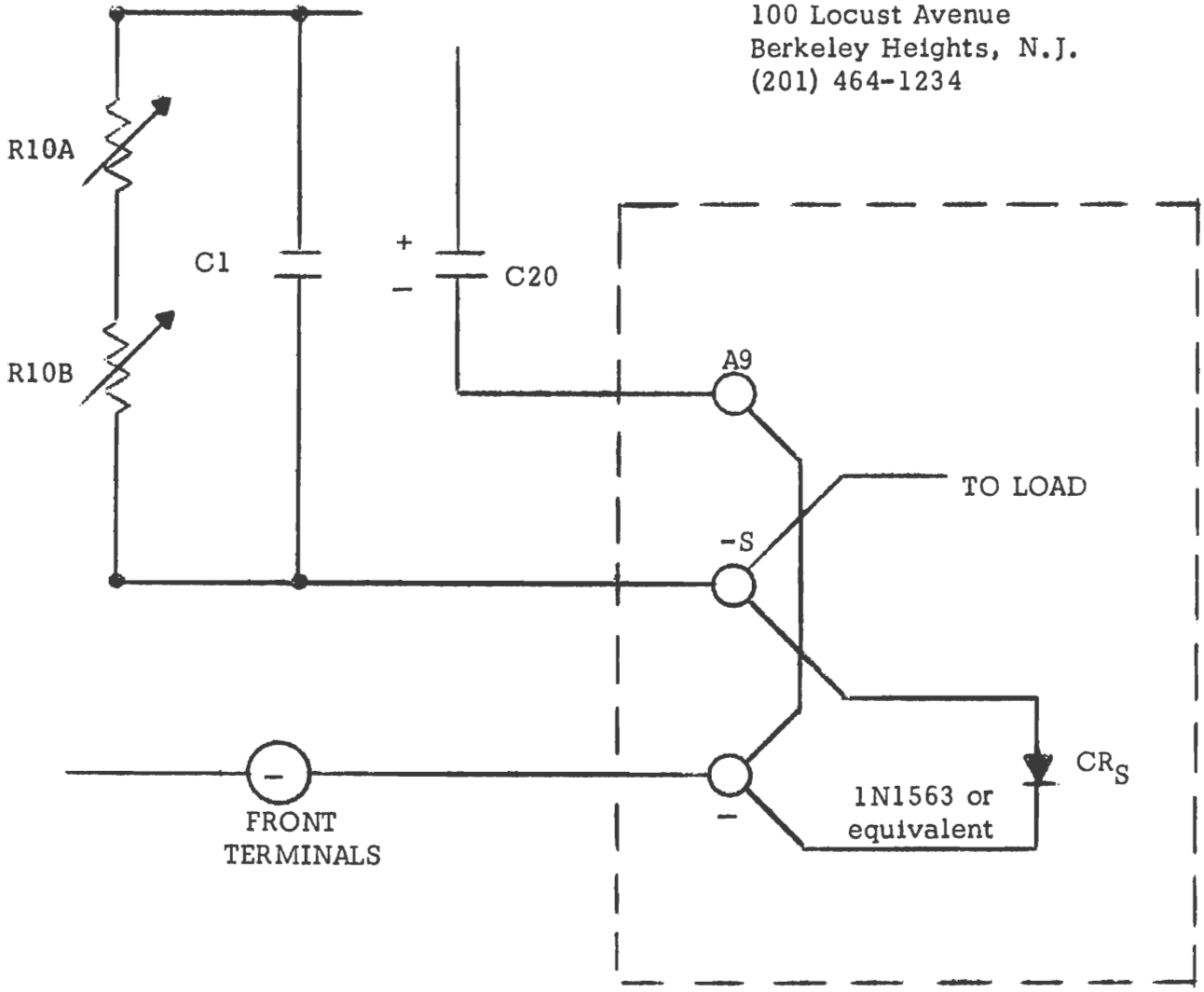
Future production units will include a modification which will permit normal operation of the supply for all modes without an external diode.

We wish to emphasize the fact that we have no record of failure in the above modes -- we are merely issuing this as a precautionary measure, since we feel that "suck-down" transistor failure is possible under certain extremes of operation.

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Do not hesitate to contact the factory if there are any questions concerning ways in which Models 6200B, 6201B, 6202B, 6203B, 6204B, and 6206B can be adapted to these special modes of operation listed on the previous page.

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100 Locust Avenue
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MODIFICATION TO MODELS 6200B, 6201B, 6202B, 6203B, 6204B, and 6206B TO PERMIT OPERATION INTO A VOLTAGE SOURCE GREATER THAN E_0 OF POWER SUPPLY

Do not use front terminals with this diode modification or with any of the three operating modes listed on previous page.

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