

## SECTION 3

### ELECTRICAL PARTS LIST AND SCHEMATICS

#### PARTS LIST FOR HIGH VOLTAGE POWER SUPPLY MODULE

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
CAPACITORS ( 1000)		
Note: All capacitors are fixed, and ceramic, unless otherwise specified.		
C1000	0318 4340	plastic, 0.1 uf, +20%, 600V
C1001	0318 3710	plastic, 0.1 uf, +20%, 400V
C1002	0318 3950	plastic, 0.0047 uf, +10%, 400V
C1003	0319 1910	paper, 0.022 uf, +10%, 1600V
C1004	0310 1270	1000 uuf, +100 -0%, 1000V
C1005 & C1006	0318 4340	plastic, 0.1 uf, +20%, 600V
C1007	0319 1720	mica, 620 uuf, +10%, 1000V
C1008	0319 1710	mica, 470 uuf, +10%, 1000V
C1011 & C1012	0319 4510	paper, 470 uuf, +10%, 10,000V
C1013	0319 4600	paper, 0.0047 uf, +10%, 6000V
C1014 to C1019	0316 4930	0.01 uf, +100 -0%, 2000V
NEON REGULATOR		
E1000	1201 1680	lamp, glow, NE96
ELECTRICAL CONNECTORS		
J1001	0905 7640	receptacle, female, 1 contact
J1002	0905 7510	receptacle, female, 3 contacts
J1003	0904 1290	receptacle, female, 2 contacts
J1004	0905 4840	jack, tip, white
P1003	0904 1460	plug, male, 2 contacts

## PARTS LIST FOR HIGH VOLTAGE POWER SUPPLY MODULE (Continued)

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
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## RESISTORS ( 1000)

Notes: 1. All resistors are fixed, composition,  $\pm 5\%$ , and 1/2 watt unless otherwise specified.

2. Resistance values in ohms: K = thousand  
M = million

R1000	0108 4800	variable, wire wound, 10K, $\pm 10\%$ , 2W
R1001	0227 8750	wire wound, 33K, 5W
R1002	0229 3620	film, 2.37M, $\pm 1\%$ , 1W
R1003	0203 1610	47, $\pm 10\%$
R1004	0203 1120	470K
R1005	0203 1610	47, $\pm 10\%$
R1006	0229 3750	film, 17M, $\pm 1\%$ , 2W
R1007 & R1008	0239 1405	film, 22K, 2W
R1009	0203 0940	82K
R1011	0203 0570	2400
R1012	0223 9290	wire wound, 2K, $\pm 10\%$ , 5W
R1013	0203 4310	3M, 1W
R1014 & R1015	0203 0480	1K
R1016	0203-0720	10K
R1017 & R1018	0203 7230	1.3M, 2W
R1019	0203 4170	750K, 1W
R1021	0203 0610	3600
R1022	0203 1200	1M
R1023	0203 2070	330K, $\pm 10\%$
R1024	0203 2250	10M, $\pm 10\%$
R1025	0203 0960	100K

## TRANSFORMERS

T1000	2001 2611	CRT, filament
T1001	2001 3581	High Voltage Supply

PARTS LIST FOR HIGH VOLTAGE POWER SUPPLY MODULE (Concluded)

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
ELECTRON TUBES		
* V101	2501 2440	K1736P-1
	2501 2450	K1736P-2
	2501 2460	K1736P-7
	2501 2470 <sup>L</sup>	K1736P-11 179.90
V102	2501 1610	ECC82/12AU7
V103	2501 1670	6CZ5
V104 to V109	2500 5740	5642
V110	2501 2240	GV3A 1300
CABLE ASSEMBLY		
W1001	5028 6291	assembly, cable, includes P1000
---	0905 7490	P1000, connector, electrical, plug, male, 11 contacts; part of cable assembly W1001

\* Depending on sales order

PARTS LIST FOR LOW VOLTAGE POWER SUPPLY; LV MODULE

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
CAPACITORS (2100)		
Note: All capacitors are fixed, ceramic and 500V, unless otherwise specified.		
C2100 & C2101	0310 1270	1000 uuf, +100 -0%, 1000V
C2103	0319 4460	electrolytic, 150 uf, -10 +100%, 300V
C2104	0319 0310	0.04 uf
C2106	0318 3730	plastic, 0.022 uf, +20%, 400V
C2107	0310 1270	1000 uuf, +100 -0%, 1000V
C2108	0301 8260	electrolytic, 8 uf, +50 -10%
C2109	0318 0270	plastic, 0.1 uf, +20%, 150V
C2110	0312 2430	0.02 uf, +100 -0%
C2111 to C2114	0319 4450	electrolytic, 80 uf, -10 +50%, 475V
C2115	0316 7110	2.2 uuf, +0.25%
C2117	0318 3730	plastic, 0.022 uf, +20%, 400V
C2118	0310 1270	1000 uuf, +100 -0%, 1000V
C2119 A,B,C	0300 2180	electrolytic, 10/10/10 uf, +50 -10%, 450V
C2120	0310 1270	1000 uuf, 1000V
C2121 & C2122	0319 4460	electrolytic, 150 uf, -10 +100%, 300V
C2123	0312 2430	.02 uf, +100 -0%
C2124	0316 7110	2.2 uuf, +0.25%
C2125	0319 9010	plastic, 0.1 uf, +20%, 150V
C2126	0310 1270	1000 uuf, +100 -0%, 1000V
C2130	0310 1270	1000 uuf, 1000V
C2131 & C2132	0319 4480	electrolytic, 125 uf, -10 +100%, 350V
C2133	0312 2430	0.02 uf, +100 -0%
C2134	0316 7110	2.2 uuf, +0.25%
C2135	0319 9010	plastic, 0.1 uf, +20%, 150V
C2136	0318 8770	electrolytic, 30 uf, 250V
C2137	0310 1270	1000 uuf, +100-0%, 1000V
C2138	0318 3730	plastic, 0.022 uf, +20%, 400V

PARTS LIST FOR LOW VOLTAGE POWER SUPPLY: LV MODULE  
(Continued)

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
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CAPACITORS (2300)

Note: All capacitors are fixed, ceramic, and 500V unless otherwise specified.

C2300 to C2302	0310 1270	0.001 uf, +100 -0%, 1000V
C2311	0310 1270	0.001 uf, +100 -0%, 1000V
C2312 to C2319	0312 2430	0.02 uf, +100 -0%
C2321	0318 0220	plastic, 0.22 uf, <u>±</u> 20%, 150V
C2331 to C2334	0319 0450	0.001 uf

SEMICONDUCTORS

CR2100 to CR2122	2600 6370	diode, silicon, 1N1169
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FUSES

F2100	1100 0820	115-volt operation, 8 amperes
F2101	1100 5260	115-volt operation, 6.25 amperes, slow-blow
F2100	1100 0800	230-volt operation, 4 amperes
F2101	1100 5210	230-volt operation, 3 amperes

ELECTRICAL CONNECTORS

J1000	3400 1760	socket, 11 pin
J2100	0905 7510	receptacle, female, 3 contacts
J4000	3400 5361	socket, 9 pin
J5000	0905 7350	receptacle, female, 24 contacts
J8400	0905 7360	receptacle, female, 32 contacts
J9000	0905 7360	receptacle, female, 32 contacts

RELAY

K2100	0503 1210	armature, general purpose, 110 vdc, 6 poles, double throw
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ELECTRICAL CONNECTORS

P6000	0905 7340	plug, male, 32 contacts
P6400	0905 7330	plug, male, 24 contacts
P2100	0905 7840	plug, male, 3 contacts

## PARTS LIST FOR LOW VOLTAGE POWER SUPPLY; LV MODULE

(Continued)

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
RESISTORS ( 2100)		
Notes: 1. All resistors are fixed, composition, $\pm 5\%$ , and 1/2 watt unless otherwise specified.		
2. Resistance values in ohms: K = thousand M = million		
R2100 & R2101	0239 0161	wire wound, tapped, 2 ohms, 20W and
R2102	0203 0820	27K
R2103	0203 0940	82K
R2104	0203 0920	68K
R2105	0203 0960	100K
R2106 & R2107	0203 0320	220
R2111	0203 3960	100K, 1W
R2112	0239 0153	wire wound, 3K, 55W
R2113	0203 1770	1K, $\pm 10\%$
R2114	0203 1140	560K
R2115	0203 1070	300K
R2116	0203 0980	120K
R2117	0203 0920	68K
R2118	0203 1770	1K, $\pm 10\%$
R2119	0229 6690	film, 200K, $\pm 0.5\%$
R2120	0203 1200	1M
R2121	0229 2620	film, 480K, $\pm 0.5\%$
R2122	0203 0550	2K
R2123 & R2124	0229 2620	film, 480K, $\pm 0.5\%$
R2125	0203 0960	100K
R2126 & R2127	0203 7030	200K, 2W
R2128 & R2129	0239 0152	wire wound, 1500, 55W
R2130	0203 0800	22K
R2131 to R2133	0203 6120	film, 33, 2W
R2134 to R2136	0203 1770	1K, $\pm 10\%$
R2137	0203 3910	62K, 1W
R2138	0203 1770	1K, $\pm 10\%$
R2139	0203 4200	1M, 1W
R2140	0203 0320	220
R2141	0203 3950	91K, 1W

PARTS LIST FOR LOW VOLTAGE POWER SUPPLY; LV MODULE  
(Continued)

Symbol                      Part Number                      Description

RESISTORS (2100)

- Notes: 1. All resistors are fixed, composition,  $\pm 5\%$ , and 1/2 watt unless otherwise specified.
2. Resistance values in ohms: K = thousand  
M = million

R2142	0203 0900	56K
R2143 & R2144	0203 1770	1K, $\pm 10\%$
R2145	0234 3850	film, 1M, $\pm 1\%$
R2146	0203 1050	240K
R2147	0203 1770	1K, $\pm 10\%$
R2148	0203 1200	1M
R2149	0234 3800	film, 402K, $\pm 1\%$
R2150	0203 0320	220
R2151	0234 3760	film, 232K, $\pm 1\%$
R2152	0203 3960	100K, 1W
R2153	0211 3630	wire wound, 5K, 5W
R2154	0239 0151	wire wound, 300, $\pm 3\%$ , 55W
R2155	0203 6010	11, 2W
R2156	0239 0151	wire wound, 300, $\pm 3\%$ , 55W
R2157	0203 1770	1K, $\pm 10\%$
R2158	0203 4140	560K, 1W
R2159	0203 0820	27K
R2160	0203 4140	560K, 1W
R2161	0203 0820	27K
R2162	0203 1770	1K, $\pm 10\%$
R2163	0234 3850	film, 1M, $\pm 1\%$
R2164	0203 1770	1K, $\pm 10\%$
R2165	0203 0990	130K
R2166	0203 1770	1K, $\pm 10\%$
R2167	0203 1200	1M
R2168	0234 3770	film, 237K, $\pm 1\%$
R2169 F,R	0108 5100	variable, wire wound, 10K/10K, $\pm 10\%$ , 2W
R2170	0203 0320	220
R2171	0234 3690	film, 75K, $\pm 1\%$
R2173	0203 3960	100K, 1W
R2174 & R2175	0239 0151	wire wound, 300, $\pm 3\%$ , 55W
R2176	0203 1770	1K, $\pm 10\%$

## PARTS LIST FOR LOW VOLTAGE POWER SUPPLY; LV MODULE

(Continued)

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
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## RESISTORS ( 2100)

Notes: 1. All resistors are fixed, composition,  $\pm 5\%$ , and 1/2 watt unless otherwise specified.

2. Resistance values in ohms: K = thousand  
M = million

R2177	0203 3840	33K, 1W
R2178	0203 1770	1K, $\pm 10\%$
R2179	0203 1240	1.5M
R2180	0203 0320	220
R2181	0203 1310	3M
R2182	0203 4120	470K, 1W
R2183 & R2184	0203 0900	56K
R2185	0203 1770	1K, $\pm 10\%$
R2186	0234 3720	film, 118K, $\pm 1\%$
R2188	0203 1200	1M
R2189	0234 3810	film, 90,900, $\pm 1\%$
R2191	0203 1770	1K, $\pm 10\%$
R2192	0234 3850	film, 1M, $\pm 1\%$
R2193	0203 0990	130K
R2194	0203 1770	1K, $\pm 10\%$
R2195	0203 0960	100K
R2196	0203 3740	12K, 1W
RESISTORS ( 2300)		
R2300	0203 0870	43K
R2301	0108 5310	variable, 100K/100K, $\pm 20\%$ , 1W
R2302	0203 0550	2K
R2304	0203 0770	16K
R2305 & R2306	0203 0650	5100
R2320	0203 1310	3M
R2321	0203 1350	4.3M
R2322	0234 3790	film, 392K, $\pm 1\%$
R2323	0203 1610	47, $\pm 10\%$
R2324	0234 3840	film, 825K, $\pm 1\%$
R2325	0239 1374	film, 1500, 2W



PARTS LIST FOR LOW VOLTAGE POWER SUPPLY; LV MODULE  
(Concluded)

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
THERMAL SWITCHES		
S211	0503 1470	relay, thermal, opens at 170°F, $\pm 5^\circ$ ; closes at 130°F, $\pm 7^\circ$
S212	0501 1270	relay, thermal, 115NO45T, 1 pole, 1 throw, normally open; operating time: 45 seconds, $\pm 10$ seconds
TRANSFORMERS		
T2100	2001 2051	power, step up
T2101	2001 2041	step up/step down
TEST JACKS		
TP2100 to TP2103	0905 4840	jack, tip, pin type, insulated
ELECTRON TUBES		
V201	2501 1970	6BJ8
V202	2501 1630	6336-A
V203	2501 1980	6BR8A
V204	2501 1630	6336-A
V205	2501 1980	6BR8A
V206	2501 1680	ECC83/12AX7
V207	2501 1630	6336-A
V208	2501 1980	6BR8A
V209	2501 1680	ECC83/12AX7
V211	2501 1980	6BR8A
V212	2501 1680	ECC83/12AX7
V213	2500 9270	OG3/85A2
CABLE		
W2100	5028 5911	assembly, power, electrical, 3-conductor, #16 AWG, 5-1/2 feet

## PARTS LIST FOR Y SWITCH AND DRIVER: LV MODULE

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
CAPACITORS		
Notes: 1. All capacitors are fixed, ceramic, and 500V, unless otherwise specified.		
2. GMC denotes Guaranteed Minimum Capacitance		
C3000 to C3003	0318 7040	1.8 uuf, +0.25%
C3004	0312 2430	0.02 uf, +100 -0%
C3005 & C3006	0319 5950	27 uuf, +10%
C3007	0318 3730	plastic, 0.022 uf, +20%, 400V
C3008	0312 2430	0.02 uf, +100 -0%
C3010	0316 7110	2.2 uuf, +0.25%
C3011 & C3012	0319 0450	1000 uuf, GMC
C3013	0310 1270	1000 uuf, +100 -0%, 1000V
C3014 & C3015	0319 0450	1000 uuf, GMC
C3016	0312 2430	0.02 uf, +100 -0%
C3017 & C3018	0319 1291	2000 uuf, 200V
C3019	0318 7040	1.8 uuf, +0.25%
C3020	0319 1072	variable, plastic, 0.65-3.2 uuf
C3021	0326 4640	0.01 uf
C3022	0318 7040	1.8 uuf, +0.25%
C3023	0312 2430	0.02 uf, +100 -0%
C3024	0316 7140	2.7 uuf, +0.25%
C3025	0319 4680	0.01 uf
C3026	0312 2430	0.02 uf, +100 -0%
C3031 to C3036	0313 3700	composition, 0.1 uuf, +10%
C3037	0313 3830	composition, 1 uuf, +10%
CAPACITORS (3100)		
C3100 to C3110	0313 3520	composition, 1.1 uuf, +5%
C3120 to C3130	0313 3520	composition, 1.1 uuf, +5%
C3141 to C3149	0316 7200	4.7 uuf, +20%
C3151 to C3160	0319 1072	variable, plastic, 0.65-3.2 uuf
C3162 & C3163	0316 7280	10 uuf
SEMICONDUCTORS		
CR3000 & CR3001	2600 1920	germanium, 30 ma dc, 1N55A
DELAY LINES		
DL3000 & DL3001	2101 8251	inductor, plate line
DL3002 & DL3003	2101 8261	inductor, delay line

## PARTS LIST FOR Y SWITCH AND DRIVER: LV MODULE (Continued)

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
		RELAY
K3000	0501 5331	DPDT, 110V DC operation
		COIL
L3000	2102 0700	rf, fixed, 47 uh, <u>+5%</u>
		ELECTRICAL CONNECTORS
P3001 & P3002	4101 0810	terminal, feedthru, insulated
		RESISTORS ( 3000)

Notes: 1. All resistors are fixed, composition, +5%, and 1/2 watt unless otherwise specified.

2. Resistance values in ohms: K = thousand  
M = million

R3000 to R3003	0203 1530	10, <u>+10%</u>
R3004 to R3007	0203 0310	200
R3008 & R3009	0228 4950	film, 3900, <u>+2%</u> , 2W
R3011 & R3012	0105 5610	variable, 500, <u>+10%</u> , 0.1W
R3013	0203 1130	510K
R3015	0203 1130	510K
R3017	0203 1130	510K
R3021	0203 1130	510K
R3031	0239 1373	film, 1300, 2W
R3032 & R3033	0203 0840	33K
R3034 & R3035	0203 0940	82K
R3036 & R3037	0203 1610	47, <u>+10%</u>
R3038 & R3039	0203 3740	12K, 1W
R3041	0229 6680	film, 110K, <u>+0.5%</u>
R3042	0203 1610	47, <u>+10%</u>
R3043	0229 6730	film, 19,600, <u>+0.5%</u>
R3044	0203 0920	68K

## PARTS LIST FOR Y SWITCH AND DRIVER: LV MODULE (Continued)

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
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## RESISTORS ( 3000)

Notes: 1. All resistors are fixed, composition,  $\pm 5\%$ , and 1/2 watt unless otherwise specified.

2. Resistance values in ohms: K = thousand  
M = million

R3051	0229 6240	film, 820, $\pm 1\%$
R3054 & R3055	0229 6240	film, 820, $\pm 1\%$
R3058	0229 6240	film, 820, $\pm 1\%$
R3059 & R3060	0203 1530	10, $\pm 10\%$
R3061 & R3062	0203 0900	56K
R3063 & R3064	0239 0337	film, 43,200, $\pm 1\%$
R3065 & R3066	0203 1580	27, $\pm 10\%$
R3067 & R3068	0203 0140	39
R3069	0203 1650	100, $\pm 10\%$
R3070	0239 1376	film, 1800, 2W
R3072 & R3073	0239 1885	film, 3900, 2W
R3074 & R3075	0228 7330	47, $\pm 20\%$ , 0.25W
R3076 & R3077	0239 1403	film, 18K, 2W
R3078 & R3079	0239 1395	film, 9100, 2W
R3081	0203 1650	100
R3082 & R3083	0203 0560	2200
R3084	0239 1401	film, 15K, 2W
RESISTORS ( 3100)		
R3100	0239 0379	film, 215K, $\pm 1\%$
R3101	0203 1610	47, $\pm 10\%$
R3102	0203 1120	470
R3103	0239 1194	film, 75K, $\pm 1\%$ , 1W
R3105	0234 3730	film, 130K, $\pm 1\%$
R3106	0108 5100	variable, wire wound, 10K/10K, $\pm 10\%$ , 2W
R3108	0203 1610	47, $\pm 10\%$
R3109	0239 1403	film, 18K, 2W
R3111	0203 2010	100K, $\pm 10\%$
R3112	0229 7490	film, 301K, $\pm 1\%$
R3113	0234 3590	film, 13K, $\pm 1\%$
R3114	0234 3790	film, 392K, $\pm 1\%$

PARTS LIST FOR Y SWITCH AND DRIVER: LV MODULE (Concluded)

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
ELECTRON TUBES		
V301 & V302	2501 1760	E88CC/6922
V303	2501 2200	7119/E182CC
V304 to V307	2501 1760	E88CC/6922
CABLE ( shown as shielded wire on Schematics)		
---	5029 6240	rf, coaxial, 70 ohms nominal impedance, 20 uuf/ft nominal capacitance

# DISTRIBUTED AMPLIFIER AND DELAY LINE MODULE

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
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## CAPACITORS ( 4000)

Notes: 1. All capacitors are fixed, ceramic, and 500V unless otherwise specified.

2. GMC denotes Guaranteed Minimum Capacitance

C4001 to C4007	0319 0450	1000 uuf, GMC
C4011 to C4017	0319 1255	variable, plastic, 0.4 - 3 uuf, 350V
C4020	0311 4930	470 uuf, +100 -0%
C4021 to C4026	0310 1270	1000 uuf, +100 -0%, 1000V
C4027	0311 4930	470 uuf, +100 -0%
C4028	0315 3740	4700 uuf, +100 -0%
C4031 & C4032	0310 1270	1000 uuf, +100 -0%, 1000V
C4041 & C4042	0310 1270	1000 uuf, +100 -0%, 1000V
C4048 & C4049	0313 7070	1000 uuf, $\pm 20\%$
C4051 to C4057	0313 3410	composition, 0.39 uuf, $\pm 5\%$
C4061 to C4067	0313 3410	composition, 0.39 uuf, $\pm 5\%$
C4071 to C4077	0313 3410	composition, 0.39 uuf, $\pm 5\%$

## CAPACITORS ( 4100)

C4101 to C4152	0319 1072	variable, plastic, 0.7 - 3.5 uuf, 350V
C4161 to C4172	0313 3450	composition, 0.56 uuf, + 5%
C4173 & C4174	0319 0400	electrolytic, 16 uf, +50 -10%, 450V
C4181 to C4192	0313 3450	composition, 0.56 uuf, $\pm 5\%$

DISTRIBUTED AMPLIFIER AND DELAY LINE MODULE (Continued)

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
DELAY LINES		
DL4000 & DL4001	2101 8211	inductor, plate line
DL4002 & DL4003	2101 8221	inductor, grid line
DL4004 to DL4007	2101 8231	inductor, signal, lower
DL4008 & DL4009	2101 8241	inductor, signal, upper
ELECTRICAL CONNECTORS		
J3001 & J3002	0905 4840	jack, tip, white
J4001 & J4002	0905 4840	jack, tip, white
J4003	0905 6790	jack, tip, yellow
J4004	0905 6780	jack, tip, blue
COILS		
L4000 & L4001	2101 8291	22 turns
L4100 & L4101	2101 7382	variable, 1.5 - 3 uh
ELECTRICAL CONNECTORS		
P4001 & P4002	4101 0810	terminal, insulated feedthru

DISTRIBUTED AMPLIFIER AND DELAY LINE MODULE (Concluded)

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
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RESISTORS (4000)

- Notes: 1. All resistors are fixed, composition,  $\pm 1\%$ , and 1/2 watt unless otherwise specified.
2. Resistance values in ohms: K = thousand  
M = million

R4000	0239 0211	film, 590, 13W
R4001 & R4002	0229 4550	film, 590, 1/8W
R4003	0239 0212	film, 590, 13W
R4004	0203 3040	15, $\pm 5\%$ , 1W
R4005 & R4006	0233 9540	film, 300, 2W
R4007	0239 1373	film, 1300, $\pm 5\%$ , 2W
R4011 to R4017	0203 1610	47, $\pm 10\%$
R4021 to R4027	0239 1192	film, 1K, 1W
R4028	0239 1193	film, 970, 1W
R4031 to R4036	0203 1530	10, $\pm 10\%$
R4101 & R4102	0229 7780	film, 36K, $\pm 5\%$ , 1/8W

ELECTRON TUBES

V401 to V407	2501 2380	6939
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NETWORKS

Z4000 & Z4001 *	8800 2351	peaking coil, 12.5 turns
Z4101 to Z4104 *	8800 2351	peaking coil, 12.5 turns

\* Wound on 4.7K Allen Bradley Resistor 0203 1850



PARTS LIST FOR MAIN SWEEP GENERATOR: X MODULE

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
CAPACITORS (5100)		
Notes: 1. All capacitors are fixed, ceramic and 500V, unless otherwise specified.		
2. GMC denotes Guaranteed Minimum Capacitance.		
C5100	0318 3720	plastic, 0.22 uf, + 20%, 400V
C5101 & C5102	0319 0310	0.04 uf, GMC, 600V
C5103	0315 1920	220 uuf, + 5%
C5104	0315 3250	10 uuf, + 5%
C5105	0318 0220	plastic, 0.22 uf, + 20%, 150V
C5106	0319 4780	0.01 uf, GMC
C5107	0319 0310	0.04 uf, GMC, 600V
C5108	0319 4790	0.02 uf, GMC
C5109	0316 7410	22 uuf, + 5%
C5110	0310 1270	1000 uuf, GMC, 1000V
C5111	0314 2590	36 uuf, + 5%
C5112	0319 4790	0.02 uf, GMC
C5113	0316 6600	300 uuf
C5120	0318 0220	plastic, 0.22 uf, + 20%, 150V
C5121		
C5122	0318 0220	plastic, 0.22 uf, + 20%, 150V
C5123	0316 7370	15 uuf, + 5%
C5124 & C5125	0316 7410	22 uuf, + 5%
C5126	0312 2430	0.02 uf, + 100 -0%
C5127 & C5128	0310 1270	1000 uuf, GMC, 1000V
C5129		uuf, 1/2%
C5131	0319 4790	0.02 uf, GMC
C5132	0316 7430	24 uuf, + 5%
C5133	0326 4520	1000 uuf, GMC

PARTS LIST FOR MAIN SWEEP GENERATOR: X MODULE (Continued)

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
CAPACITORS (5200)		
Notes: 1. All capacitors are fixed, ceramic and 500V, unless otherwise specified.		
2. GMC denotes Guaranteed Minimum Capacitance.		
C5200	0318 0220	plastic, 0.22 uf, $\pm 20\%$ , 150V
C5201	0319 4780	0.01 uf, GMC
C5202	0314 2520	18 uuf, $\pm 5\%$
C5204	0319 4790	0.02 uf, GMC
C5211	0316 7410	22 uuf, $\pm 5\%$
C5212	0316 7470	47 uuf, $\pm 5\%$
C5213	0319 4790	0.02 uf, GMC
C5214	0313 3060	100 uuf, $\pm 20\%$
C5215	0319 4000	variable, plastic, 1-8 uuf, 350V
C5216	0319 9010	plastic, 0.1 uf, $\pm 20\%$ , 150V
C5217 & C5218	0319 4790	0.02 uf, GMC
C5219	0319 4780	0.01 uf, GMC
C5231 & C5232	0310 1270	1000 uuf, GMC, 1000V
C5233	0319 0590	plastic, 0.1 uf, $\pm 20\%$ , 200V
C5234	0318 3730	plastic, 0.022 uf, $\pm 20\%$ , 400V
C5235	0319 4790	0.02 uf, GMC
C5241	0312 2430	0.02 uf, $\pm 100 - 0\%$
C5242	0312 6250	plastic, 0.47 uf, $\pm 20\%$ , 200V

PARTS LIST FOR MAIN SWEEP GENERATOR: X MODULE (Continued)

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
SEMICONDUCTORS		
CR5101	2600 1920	diode, silicon junction, 1N55A
CR5102 to CR5104	2600 6700	diode, 1N34A
CR5105	2600 1920	germanium, 30 ma dc, 1N55A
CR5200	2600 6500	germanium, 60 ma dc, 1N56A
NEON LAMP		
E5200	1200 7171	glow, ST140
COILS (fixed, unless otherwise specified)		
L5100	2100 6240	rf, 1 uh, + 10%
L5101	2100 6280	rf, 2.2 uh, + 10%
L5300	2102 0370	rf, 120 uh, + 5%
L5600	2102 0430	rf, 470 uh, + 5%
L5601	2102 0370	rf, 120 uh, + 5%
ELECTRICAL CONNECTORS		
P5000	0905 7330	plug, male, 24 contacts
P5100	0905 7330	plug, male, 24 contacts
P5200	0905 7330	plug, male, 24 contacts

PARTS LIST FOR MAIN SWEEP GENERATOR: X MODULE (Continued)

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
RESISTORS (5100)		
Notes: 1. All resistors are fixed, composition, $\pm 5\%$ , and 1/2 watt unless otherwise specified.		
2. Resistance values in ohms: K = thousand M = million		
R5100	0203 0320	220
R5101	0203 1610	47, $\pm 10\%$
R5102	0203 0320	220
R5103	0229 3900	wire wound, 15K, $\pm 1\%$ , 5W
R5104	0203 0590	3K
R5105 to R5107	0239 1416	film, 56K, 2W
R5108	0203 0480	1K
R5109	0228 7330	47, $\pm 20\%$ , 1/4W
R5110	0203 3700	8200, 1W
R5111	0203 1580	27, $\pm 10\%$
R5112	0239 1188	film, 900, $\pm 1\%$ , 1W
R5113	0203 3570	2400, 1W
R5114	0239 1187	film, 800, $\pm 1\%$ , 1W
R5115 & R5116	0229 2680	film, 62K, $\pm .5\%$
R5117	0203 3700	8200, 1W
R5118	0239 1385	film, 3900, 2W
R5119	0239 1374	film, 1500, 2W
R5121 & R5122	0203 1580	27, $\pm 10\%$
R5123	0229 2700	film, 92K, $\pm .5\%$
R5124	0229 2730	film, 94K, $\pm .5\%$
R5125	0203 1580	27, $\pm 10\%$
R5126	0203 1040	220K
R5127	0203 1000	150K
R5128	0203 1610	47, $\pm 10\%$
R5129	0229 7290	film, 43,200, $\pm 1\%$
R5130	0229 7310	film, 100K, $\pm 1\%$
R5131	0203 1650	100, $\pm 10\%$
R5132	0203 0890	51K
R5133	0229 7280	film, 1K, $\pm 1\%$
R5134	0203 1580	27, $\pm 10\%$
R5135	0203 1690	220, $\pm 10\%$
R5136	0228 7330	47, $\pm 20\%$ , 1/4W

## PARTS LIST FOR MAIN SWEEP GENERATOR: X MODULE (Continued)

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
RESISTORS (5100 continued)		
Notes: 1. All resistors are fixed, composition, $\pm 5\%$ , and 1/2 watt unless otherwise specified.		
2. Resistance values in ohms: K = thousand M = million		
R5138	0239 0406	film, 133K, $\pm 1\%$
R5139	0229 3900	wire wound, 15K, $\pm 1\%$ , 5W
R5141	0203 1650	100, $\pm 10\%$
R5142	0203 0840	33K
R5143	0203 0760	15K
R5151	0239 0353	film, 162K, $\pm 1\%$
R5152	0203 0750	13K
R5153	0108 4840	variable, wire wound, 50K, $\pm 10\%$ , 2W
R5154	0229 7370	film, 750K, $\pm 1\%$
R5156	0203 0520	1500
R5157	0228 7330	47, $\pm 20\%$ , 1/4W
R5158	0203 3890	51K, 1W
R5161	0239 0352	film, 150K, $\pm 1\%$
R5162	0230 1760	film, 26K, 5W
R5163	0203 0320	220
R5164	0229 7360	film, 576K, $\pm 1\%$
R5165	0239 1396	film, 10K, 2W
R5166	0203 0930	75K
R5167	0229 7330	film, 150K, $\pm 1\%$
R5168	0203 0990	130K
R5169	0203 0720	10K
R5171	0228 7330	47, $\pm 20\%$ , 1/4W
R5172	0203 0560	2200
R5173	0203 0350	300
R5174	0228 7330	47, $\pm 20\%$ , 1/4W
R5175	0203 0650	5100

PARTS LIST FOR MAIN SWEEP GENERATOR: X MODULE (Continued)

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
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RESISTORS ( 5100 continued)

Notes: 1. All resistors are fixed, composition, +5%, and 1/2 watt unless otherwise specified.

2. Resistance values in ohms: K = thousand  
M = million

R5176	0203 0960	100K
R5177	0203 1610	47, + 10%
R5178	0203 1070	300K
R5179	0203 0930	75K
R5181	0203 0600	3300
R5182	0239 1195	film, 69,800, + 1%, 1W
R5183	0239 1196	film, 47,500, + 1%, 1W
R5184	0203 0760	15K
R5185	0203 0410	510
R5186	0204 2300	91M, + 20%

RESISTORS ( 5200)

R5200	0203 1580	27, + 10%
R5201	0229 6910	film, 47,500, + 1%, 1/4W
R5202	0203 1610	47, + 10%
R5203	0229 6880	film, 15K, + 1%, 1/4W
R5204	0203 3680	6800, 1W
R5205	0239 1197	film, 140K, + 1%, 1W
R5206	0229 6920	film, 60,400, + 1%, 1/4W
R5207	0204 1510	20M
R5208	0203 1610	47, + 10%
R5209	0203 0650	5100
R5211	0203 0400	470

## PARTS LIST FOR MAIN SWEEP GENERATOR: X MODULE (Continued)

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
RESISTORS ( 5200 continued)		
Notes: 1. All resistors are fixed, composition, +5%, and 1/2 watt unless otherwise specified.		
2. Resistance values in ohms: K = thousand M = million		
R5221	0203 3690	7500, 1W
R5222	0108 5100	variable, wire wound, 10K/10K, + 10%, 2W
R5223	0203 0720	10K
R5224	0229 2680	film, 62K, + .5%
R5225	0229 2710	film, 102K, + .5%
R5226	0203 1610	47, + 10%
R5227	0203 0000	10
R5231	0203 3560	2200, 1W
R5232	0203 0320	220
R5233	0203 1690	220, + 10%
R5234	0203 3740	12K, 1W
R5235	0229 4950	film, 2M, + 1%
R5236	0203 0390	430
R5237	0229 7340	film, 249K, + 1%
R5238	0203 1610	47, + 10%
R5239	0239 1185	film, 750, + 1%, 1W
R5241	0203 0240	100
R5251	0203 1610	47, + 10%
R5252	0203 1170	750K
R5253	0203 1610	47, + 10%
R5254	0203 1170	750K
R5255	0203 1510	20M
R5256	0203 0900	56K
R5257	0203 0860	39K
R5258	0239 0842	film, 825K, + 1%, 1/2W
R5259	0229 6960	film, 392K, + 1%, 1/4W
R5261	0204 2300	91M, + 20%
R5262	0203 1610	47, + 10%

PARTS LIST FOR MAIN SWEEP GENERATOR: X MODULE (Concluded)

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
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RESISTORS (5200 concluded)

Notes: 1. All resistors are fixed, composition, +5%, and 1/2 watt unless otherwise specified.

2. Resistance values in ohms: K = thousand  
M = million

R5263	0203 0800	22K
R5264	0228 7330	47, +20%, 1/4W
R5265	0203 1610	47, <u>±</u> 10%
R5271	0239 1409	film, 33K, 2W
R5272	0228 8380	film, 10M, +1%
R5273	0229 5000	film, 4.75M, <u>±</u> 1%
R5274	0203 1330	3.6M
R5275	0203 1770	1K, <u>±</u> 10%



PARTS LIST FOR Z-AXIS CIRCUIT: X MODULE

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
CAPACITORS ( 5300)		
Notes: 1. All capacitors are fixed, ceramic and 500V, unless otherwise specified.		
2. GMC denotes Guaranteed Minimum Capacitance.		
C5300	0310 1270	1000 uuf, +100 -0%, 1000V
C5301	0316 7400	20 uuf, +5%
C5302	0310 1270	1000 uuf, +100 -0%, 1000V
C5303 & C5304	0316 7370	15 uuf
C5305	0318 0220	plastic, 0.22 uf, +20%, 150V
C5311 & C5312	0316 7400	20 uuf
C5313	0326 4640	0.01 uf, GMC
C5314	0318 3760	plastic, 0.47 uf, +20%, 400V
C5315	0326 4640	0.01 uf, GMC
C5316	0316 7460	33 uuf
C5317	0316 7400	20 uuf
C5318	0316 7370	15 uuf
CAPACITORS ( 5400)		
C5400	0319 0310	0.04 uf, GMC, 600V
C5403	0319 0310	0.04 uf, GMC, 600V
C5404	0315 1920	220 uuf
C5405	0315 2000	100 uuf, +20%
C5406	0319 4780	0.01 uf
C5407	0315 2000	100 uuf, +20%
C5408	0310 1270	1000 uuf, GMC, 1000V
C5409	0319 9110	100 uuf, +10%
C5411	0316 6500	100 uuf, +10%
C5412	0310 1270	1000 uuf, +100 -0%, 1000V
C5413	0319 0310	0.04 uf, GMC, 600V

PARTS LIST FOR Z-AXIS CIRCUIT: X MODULE (Continued)

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
SEMICONDUCTORS		
CR5300 to CR5303	2600 1920	germanium, 30 ma dc, 1N55A
CR5401 to CR5406	2600 1920	germanium 30 ma dc, 1N55A
CR5408	2600 1920	germanium, 30 ma dc, 1N55A
NEON LAMP		
E5400	1200 7171	glow, ST140

PARTS LIST FOR Z-AXIS CIRCUIT: X MODULE (Continued)

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
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RESISTORS ( 5300)

Notes: 1. All resistors are fixed, composition, +5%,  
and 1/2 watt unless otherwise specified.

2. Resistance values in ohms: K = thousand  
M = million

R5300	0203 1280	2.2M
R5301	0203 0640	4700
R5302	0203 1020	180K
R5303	0228 7330	47, + 20%, 1/4W
R5304	0239 1392	film, 6800, 2W
R5305	0239 1382	film, 3K, 2W
R5306	0228 7330	47, + 20%, 1/4W
R5307	0203 0910	62K
R5308	0203 0820	27K
R5309	0203 0560	2200
R5311	0203 3890	51K, 1W
R5312	0203 0740	12K
R5313	0203 3910	62K, 1W
R5314	0203 4060	270K, 1W
R5321	0203 1650	100, + 10%
R5322	0203 3800	22K, 1W
R5323	0203 1610	47, + 10%
R5324	0203 0920	68K
R5325 & R5326	0239 1391	film, 6200, 2W
R5327	0203 1610	47, + 10%
R5328	0203 0920	68K
R5329	0203 3800	22K, 1W
R5341 & R5342	0228 7330	47, + 20%, 1/4W
R5343	0203 1690	220, + 10%
R5344 to R5349	0239 1417	film, 62K, 2W
R5351	0203 0520	1500
R5352	0203 0650	5100
R5353	0203 0460	820

PARTS LIST FOR Z-AXIS CIRCUIT: X MODULE (Concluded)

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
RESISTORS (5400)		
Notes: 1. All resistors are fixed, composition, +5%, and 1/2 watt unless otherwise specified.		
2. Resistance values in ohms: K = thousand M = million		
R5400	0203 1730	470, + 10%
R5401	0203 1650	100, + 10%
R5402	0239 1416	film, 56K, 2W
R5411	0203 0430	470
R5412	0203 3410	510, 1W
R5413	0203 1610	47, + 10%
R5414 & R5415	0239 1416	film, 56K, 2W
R5416	0228 7330	47, + 20%, 1/4W
R5417	0203 3640	4700, 1W
R5421	0203 1610	47, + 10%
R5422	0203 1170	750K
R5423	0203 3640	4700, 1W
R5424	0203 1170	750K
R5425	0228 7330	47, + 20%, 1/4W
R5426 & R5427	0239 1416	film, 56K, 2W
R5428	0203 1610	47, + 10%
R5431	0239 1387	film, 4700, 2W
R5432	0229 6930	film, 121K, + 1%, 1/4W
R5433	0229 6890	film, 16,200, + 1%, 1/4W
R5434	0203 1610	47, + 10%
R5435	0203 3480	1K, 1W
R5436	0203 1650	100, + 10%

PARTS LIST FOR X-AXIS CIRCUIT: X MODULE

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
CAPACITORS ( 5500)		
Notes: 1. All capacitors are fixed, ceramic and 500V, unless otherwise specified.		
2. GMC denotes Guaranteed Minimum Capacitance.		
C5500 & C5501	0316 7400	20 uuf
C5502	0310 1270	1000 uuf, GMC, 1000V
C5503	0319 0310	0.04 uf, GMC, 600V
C5504	0315 2000	100 uuf, +20%
C5505	0318 0270	plastic, 0.1 uf, +20%, 150V
C5506	0316 6690	620 uuf, +10%
C5507	0312 2430	0.02 uf, +100 -0%
C5508	0319 4790	0.02 uf, GMC
C5509	0312 2430	0.02 uf, +100 -0%
C5510	0319 0630	plastic, 0.22 uf, +20%, 200V
C5511	0319 4780	0.01 uf, GMC
C5512	0312 2430	0.02 uf, +100 -0%

CAPACITORS ( 5600)

C5600 & C5601	0312 2430	0.02 uf, +100 -0%
C5602	0319 1072	variable, 0.7.3 uuf
C5603	0319 9310	3 uuf, +0.25 uuf
C5604	0319 9320	25 uuf, +1 uuf
C5605	0319 4000	variable, plastic, 1-8 uuf, 350V
C5606	0310 1270	1000 uuf, +100 -0%, 1000V
C5607	0315 3250	10 uuf, +0.5 uuf
C5610	0310 1270	1000 uuf, 1000V
C5621 & C5622	0319 4790	0.02 uf, GMC
C5623	0313 7070	1000 uuf, +20%
C5624	0316 7110	2.2 uuf, +0.25 uuf
C5625	0310 1270	1000 uuf, GMC, 1000V
C5626	0319 4790	0.02 uf, GMC

PARTS LIST FOR X-AXIS CIRCUIT: X MODULE (Continued)

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
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CAPACITORS (5600 concluded)

- Notes: 1. All capacitors are fixed, ceramic and 500V, unless otherwise specified.
2. GMC denotes Guaranteed Minimum Capacitance.

C5628	0300 7790	variable, 1.5-7 uuf
C5629	0316 7110	2.2 uuf, +0.25 uuf
C5631	0319 4780	0.01 uf, GMC

SEMICONDUCTORS

CR5500	2600 1920	germanium, 30 ma dc, 1N55A
CR5501	2600 6680	crystal, 1N55A
CR5502	2600 1920	germanium, 30 ma dc, 1N55A

NEON LAMP

E5500	1200 7171	glow, ST140
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ELECTRICAL CONNECTORS

J5600	0905 6770	jack, tip, green
J5601	0905 6800	jack, tip, red

RELAY

K5600	0501 5331	DPDT, 110V DC operation
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## PARTS LIST FOR X-AXIS CIRCUIT: X MODULE (Continued)

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
RESISTORS (5500)		
Notes: 1. All resistors are fixed, composition, +5%, and 1/2 watt unless otherwise specified.		
2. Resistance values in ohms: K = thousand M = million		
R5500 & R5501	0203 3800	22K, 1W
R5502 & R5503	0203 3920	68K, 1W
R5504 & R5505	0203 1610	47, +10%
R5506 & R5507 & R5508	0228 7330 0239 1411	47, +20%, 1/4W film, 36K, 2W
R5509	0228 7330	47, +20%, 1/4W
R5511	0203 0480	1K
R5512 & R5513	0203 1170	750K
R5514	0203 1610	47, +10%
R5515	0203 0430	470
R5516	0203 3410	510, 1W
R5517	0228 7330	47, +20%, 1/4W
R5518	0203 1650	100, +10%
R5519	0229 6940	film, 150K, +1%, 1/4W
R5521	0229 6980	film, 15K, +1%, 1/4W
R5522	0203 1650	100, +10%
R5523	0239 1185	film, 750, +1%, 1W
R5524	0228 7330	47, +20%, 1/4W
R5525	0210 6220	wire wound, 12K, 10W
R5526	0203 0300	180
R5527	0228 7330	47, +20%, 1/4W
R5528	0239 1412	film, 39K, 2W
R5529	0229 6930	film, 121K, +1%, 1/4W
R5531	0203 1610	47, +10%
R5532	0239 0837	film, 562K, +1%, 1/2W
R5533	0229 6950	film, 274K, +1%, 1/4W

## PARTS LIST FOR X-AXIS CIRCUIT: X MODULE (Continued)

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
RESISTORS (5600)		
Notes: 1. All resistors are fixed, composition, <u>+5%</u> , and 1/2 watt unless otherwise specified.		
2. Resistance values in ohms: K = thousand M = million		
R5600	0203 0720	10K
R5601	0203 0900	56K
R5602	0229 7300	film, 51,100, <u>+1%</u>
R5603	0203 1610	47, <u>+10%</u>
R5604	0229 6990	film, 43,700, <u>+1%</u> , 1/4W
R5605	0203 3840	33K, 1W
R5606	0228 7330	47, <u>+20%</u> , 1/4W
R5607	0224 3020	film, 4.6M, <u>+1%</u>
R5608	0228 8390	film, 24.9M, <u>+1%</u>
R5609	0229 4960	film, 4.02M, <u>+1%</u>
R5611	0224 4230	film, 750K, <u>+1%</u>
R5612	0203 1510	20M
R5613	0204 1550	20M, <u>+10%</u>
R5614	0203 1310	3M
R5615	0229 4960	film, 4.02M, <u>+1%</u>
R5616 & R5617	0108 5000	variable, 50K, <u>+20%</u>
R5618	0203 0920	68K
R5619	0229 4980	film, 1.6M, <u>+1%</u>
R5621	0204 1510	20M
R5622	0204 2870	9.1M, <u>+20%</u>
R5628	0203 1610	47, <u>+10%</u>
R5629 & R5630	0203 0640	4700
R5631	0228 7330	47, <u>+20%</u> , 1/4W
R5632	0229 0850	film, 6200, 17W
R5633	0203 1610	47, <u>+10%</u>
R5634	0228 8370	film, 7.5M, <u>+1%</u>
R5635	0203 1580	27, <u>+10%</u>
R5636	0239 1404	film, 20K, 2W
R5637	0203 1610	47, <u>+10%</u>
R5638	0204 1160	680K



PARTS LIST FOR X-AXIS CIRCUIT: X MODULE (Concluded)

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
RESISTORS (5600 concluded)		
Notes: 1. All resistors are fixed, composition, +5%, and 1/2 watt unless otherwise specified.		
2. Resistance values in ohms: K = thousand M = million		
R5639	0203 1200	1M
R5641	0203 0320	220
R5642	0203 1610	47, + 10%
R5643	0203 0990	130K
R5644	0203 0800	22K
R5646	0230 1090	film, 1200
R5647	0229 0840	film, 3900, 17W
R5648	0203 1030	200K
R5649	0203 0640	4700
R5651	0239 1198	392K, + 1%, 1W
R5652	0239 1208	film, 332K, + 1%, 1W
R5653	0239 1207	film, 113K, ± 1%, 1W
R5654	0203 0560	2200
R5655	0203 1610	47, + 10%

PARTS LIST FOR ELECTRON TUBES AND MISCELLANEOUS  
ITEMS: X MODULE

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
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CAPACITORS ( 5800)

Notes: 1. All capacitors are fixed, ceramic, 1000 uuf,  
and 500V unless otherwise specified.

2. GMC denotes Guaranteed Minimum Capacitance.

C5800 to C5808	0319 0350	GMC
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RESISTORS ( 5800)

Notes: 1. All resistors are fixed, wire wound and 1/2W.

2. Resistance values in ohms: K = thousand  
M = million

R5800	0211 4850	1.3, +5%
R5801 to R5804	0210 0810	4.7, $\pm 10\%$

PARTS LIST FOR ELECTRON TUBES AND MISCELLANEOUS  
ITEMS: X MODULE (Concluded)

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
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ELECTRON TUBES

MAIN SWEEP GENERATOR

V501	2501 1760	E88CC/6922
V502	2500 8250	6BC7
V503 & V504	2501 1930	6BA8-A
V505	2501 2200	7119/E182CC
V506 to V508	2501 1760	E88CC/6922
V509 & V510	2501 1930	6BA8-A
V511	2500 9270	OG3/85A2
V512	2501 1930	6BA8-A
V513	2501 1980	6BR8-A

Z-AXIS CIRCUIT

V514	2501 2220	6DJ8/ECC88
V515	2501 1760	E88CC/6922
V516	2501 1540	6BK7B
V518 & V519	2501 1930	6BA8-A
V520	2501 1990	6AW8-A

X-AXIS CIRCUIT

V521 & V522	2501 1930	6BA8-A
V523	2501 1970	6BJ8
V524	2501 1990	6AW8-A
V525	2501 2200	7119/E182CC
V526	2500 9270	OG3/85A2
V527	2501 2220	6DJ8 /ECC88
V528	2501 1760	E88CC/6922
V529	2501 1800	6BQ5/EL84
V530	2501 2400	6CW5/EL86

PARTS LIST FOR MASTER CLOCK: MAIN FRAME MODULE

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
CAPACITORS ( 6000)		
Note: All capacitors are fixed, ceramic, unless otherwise specified.		
C6000	0319 4790	0.02 uf, 500V
C6002	0318 0270	plastic, 0.01 uf, $\pm 20\%$ , 150V
C6004	0319 0310	0.04 uf, 600V
C6006	0319 9410	62 uuf, $\pm 5\%$ , 500V
C6008	0319 4790	0.02 uf, 500V
C6009	0319 9410	62 uuf, $\pm 5\%$ , 500V
C6011 & C6012	0326 4640	0.01 uf, +100 -0%, 500V

SEMICONDUCTORS

CR6000 & CR6001	2600 6490	1N34A, germanium, 50 ma dc
CR6004	2600 6490	1N34A, germanium, 50 ma dc
CR6005 & CR6006	2600 1920	1N55A, germanium, 30 ma dc
CR6007	2600 6490	1N34A, germanium, 50 ma dc
CR6008 & CR6009	2600 6500	1N56A, germanium, 60 ma dc

RESISTORS ( 6000)

Notes: 1. All resistors are fixed, composition,  $\pm 5\%$ , and 1/2 watt unless otherwise specified.

2. Resistance values in ohms: K = thousand  
M = million

R6000	0203 1130	510K
R6001	0203 0640	4700
R6004	0203 1010	160K
R6005	0203 1730	470, + 10%
R6006 to R6008	0239 1399	film, 13K, 2W
R6009	0203 0320	220

PARTS LIST FOR MASTER CLOCK: MAIN FRAME MODULE (Concluded)

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
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RESISTORS (6000)

Notes: 1. All resistors are fixed, composition,  $\pm 5\%$ , and 1/2 watt unless otherwise specified.

2. Resistance values in ohms: K = thousand  
M = million

R6011 & R6012	0203 3870	43K, 1W
R6013	0228 7260	47, $\pm 10\%$ , 1/4W
R6014	0203 0580	2700
R6015	0203 0860	39K
R6016 to R6018	0239 1399	film, 13K, 2W
R6019	0228 7260	47, $\pm 10\%$ , 1/4W
R6021	0203 1010	160K
R6022	0203 0320	220
R6023	0228 7260	47, $\pm 10\%$ , 1/4W
R6024	0203 3480	1K, 1W
R6025 & R6026	0229 8650	wire wound, 15K, $\pm 3\%$ , 10W
R6027	0203 3480	1K, 1W
R6028	0203 3410	510, 1W
R6029	0228 7330	47, $\pm 20\%$ , 1/4W

ELECTRON TUBES

V601	2501 1760	E88CC/6922
V602	2501 2200	7119/E182CC

PARTS LIST FOR SYNC AMPLIFIER: MAIN FRAME MODULE

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
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CAPACITORS (6100)

Note: All capacitors are fixed, ceramic, and 500V unless otherwise specified.

C6100	0326 4640	0.01 uf
C6101	0319 1040	4.7 uuf
C6102	0326 4520	1000 uuf
C6103	0300 3070	variable, 4-30 uuf
C6104	0319 1050	0.02 uf, 250V
C6105	0317 0090	100 uuf
C6106 & C6107	0326 4520	1000 uuf
C6108	0318 0220	plastic, 0.22 uf, $\pm 20\%$ , 150V
C6109 & C6110	0326 4660	plastic, 0.02 uf
C6111	0319 0630	plastic, 0.22 uf, $\pm 20\%$ , 200V
C6112	0315 3190	5.6 uuf
C6113	0319 4790	0.02 uf
C6114	0312 9380	mica, 2700 uuf
C6115	0319 0590	plastic, 0.1 uf, $\pm 20\%$ , 200V
C6116	0318 0260	plastic, 0.022 uf, 150V
C6117 & C6118	0319 5750	62 uuf
C6119	0326 4520	1000 uuf
C6120	0319 9010	plastic, 0.1 uf, $\pm 20\%$ , 150V
C6121 & C6122	0319 4680	0.01 uf
C6123	0315 3190	5.6 uuf, 600V
C6124	0326 4660	plastic, 0.02 uf
C6130	0326 4520	1000 uuf

SEMICONDUCTORS

CR6100 to CR6102	2600 6500	1N56A, germanium, 60 ma dc
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COILS (fixed, unless otherwise specified)

L6100	2102 0680	rf, 22 uh, $\pm 10\%$
L6101	2102 0640	rf, 10 uh, $\pm 10\%$
L6102	2102 0660	rf, 15 uh, $\pm 5\%$
L6103	2102 0710	rf, 82 uh, $\pm 5\%$

PARTS LIST FOR SYNC AMPLIFIER: MAIN FRAME MODULE  
(Continued)

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
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RESISTORS (6100)

Notes: 1. All resistors are fixed, composition,  $\pm 5\%$ , and  $1/2$  watt unless otherwise specified.

2. Resistance values in ohms: K = thousand, M = million

R6100 to R6102	0239 0337	film, 43.2K, $\pm 1\%$
R6103	0239 0342	film, 61.9K, $\pm 1\%$
R6106	0203 2170	2.2M, $\pm 10\%$
R6107	0203 2040	180K, $\pm 10\%$
R6108	0203 0930	75K
R6109	0203 1530	10, $\pm 10\%$
R6110	0234 0210	film, 110K, $\pm 1\%$ , 1/4W
R6111	0229 5040	film, 909K, $\pm 1\%$
R6112	0203 0480	1K
R6113	0203 1610	47, $\pm 10\%$
R6114	0203 0640	4700
R6115	0239 0361	film, 475K, $\pm 1\%$
R6116	0239 0313	film, 200K, $\pm 1\%$
R6117	0203 2090	470K, $\pm 10\%$
R6118	0229 4990	film, 1M, $\pm 1\%$
R6119 & R6120	0203 1650	100, $\pm 10\%$
R6121	0203 0590	3K
R6122	0227 8740	wire wound, 15K, 5W
R6123	0239 1406	film, 24K, 2W
R6124	0203 0240	100
R6125	0108 4800	variable, wire wound, 10K, $\pm 10\%$ , 2W
R6126	0239 1409	film, 33K, 2W
R6127	0234 3550	film, 4.99K, $\pm 1\%$
R6128	0234 3820	film, 475, $\pm 1\%$
R6129	0210 0810	wire wound, 4.7, $\pm 10\%$
R6130	0228 7300	130, 1/4W
R6131 & R6132	0203 1610	47, $\pm 10\%$

## PARTS LIST FOR SYNC AMPLIFIER: MAIN FRAME MODULE (Continued)

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
RESISTORS (6100)		
Notes: 1. All resistors are fixed, composition, $\pm 5\%$ and 1/2 watt unless otherwise specified.		
2. Resistance values in ohms: K = thousand M = million		
R6133 & R6134	0203 0880	47K
R6135	0203 0860	39K
R6136	0203 3830	30K, 1W
R6137	0234 3710	film, 110K, $\pm 1\%$
R6138	0234 3630	film, 20K, $\pm 1\%$
R6139	0107 1991	variable, 50K, $\pm 10\%$
R6140	0203 0400	470
R6141	0234 3660	film, 39.2K, $\pm 1\%$
R6142	0203 1650	100, $\pm 10\%$
R6143	0203 0160	47
R6144	0229 7640	film, 750, $\pm 1\%$
R6145	0203 2190	3.3M, $\pm 10\%$
R6146	0203 1580	27, $\pm 10\%$
R6147	0234 3670	film, 47.5K, $\pm 1\%$
R6148	0239 1199	film, 130, $\pm 1\%$ , 1W
R6149	0203 1200	1M
R6150	0203 3820	27K, 1W
R6151	0203 1510	20M
R6152	0203 0930	75K
R6153	0105 5670	variable, 50K, $\pm 10\%$
R6154	0239 1201	film, 274K, $\pm 1\%$ , 1W
R6155	0203 0480	1K
R6156	0203 1580	27, $\pm 10\%$
R6157	0239 1192	film, 1K, $\pm 1\%$ , 1W
R6158	0203 1020	180K
R6159	0203 1440	10M
R6161	0203 0240	100
R6162	0203 1050	270K
R6163	0203 1890	10K, $\pm 10\%$
R6164	0203 3880	47K, 1W



## PARTS LIST FOR SYNC AMPLIFIER: MAIN FRAME MODULE (Concluded)

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
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## RESISTORS (6100)

Notes: 1. All resistors are fixed, composition, +5% and 1/2 watt unless otherwise specified.

2. Resistance values in ohms: K = thousand  
M = million

R6165	0203 1610	47, +10%, 1/2W
R6166	0234 3670	film, 47.5K, +1%
R6167	0108 4800	variable, wire wound, 10K, +10%, 2W
R6168	0234 3570	film, 10K, +1%
R6169	0229 7310	film, 100K, +1%
R6170	0239 0302	film, 3740, +1%
R6172	0229 7520	film, 432K, +1%
R6173	0229 7490	film, 301K, +1%
R6174	0203 1610	47, +10%, 1/2W
R6175	0239 1405	film, 22K, 2W
R6176	0203 0320	220
R6177	0239 0345	film, 90.9K, +1%
R6178	0203 0320	220

## ELECTRON TUBES

V610 to V612	2501 1760	E88CC/6922
V613 & V614	2501 1930	6BA8A

## PARTS LIST FOR SWEEP RATE SWITCH: MAIN FRAME MODULE

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
CAPACITORS ( 6400)		
Note: All capacitors are fixed, ceramic and 500V unless otherwise specified.		
C6400 to C6403	0326 4520	1000 uuf
C6411	0317 0090	100 uuf
C6412	0319 5850	27 uuf
C6413	0311 4930	470 uuf
C6414	0326 4620	5000 uuf
C6415	0318 0240	plastic, 0.047 uf, $\pm 20\%$ , 150V
C6421	0319 1195	mica, 476, $\pm 1\%$
C6422	0319 1194	mica, 446, $\pm 1\%$
C6423	0319 1196	mica, 4946, $\pm 1\%$
C6424 & C6425	0319 1197	mica, 0.025 uf, $\pm 1\%$ , 300V
C6426 A,B	0319 1121	plastic, 2 x 1 uf, $\pm 1\%$ , 200V

## RESISTORS ( 6400)

- Notes: 1. All resistors are fixed, composition,  $\pm 5\%$  and 1/2 watt unless otherwise specified.
2. Resistance values in ohms: K = thousand  
M = million

R6400	0203 0480	1K
R6401	0203 0410	510
R6402	0203 0340	270
R6403	0203 0190	62
R6404	0203 0120	33
R6405	0203 0070	20
R6406	0203 3920	68K, 1W
R6411	0203 0940	82K
R6412	0203 0910	62K
R6413	0239 0301	film, 2.49K, $\pm 1\%$
R6414	0239 0385	film, 10.5K, $\pm 1\%$
R6415 to R6420	0228 7280	1M, $\pm 10\%$ , 1/4W

## PARTS LIST FOR SWEEP RATE SWITCH: MAIN FRAME MODULE

(Concluded)

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
RESISTORS ( 6400)		
Notes: 1. All resistors are fixed, composition, +5% and 1/2 watt unless otherwise specified.		
2. Resistance values in ohms: K = thousand M = million		
R6421	0233 9900	wire wound, 48.25K
R6422	0229 8860	wire wound, 24.1K, +0.25%, 7W
R6423	0229 8850	wire wound, 24K, +0.25%, 7W
R6424	0228 8330	film, 12.8M, +1%
R6425	0228 8340	film, 6.4M, +1%
R6426	0228 8350	film, 1.28M
R6427	0228 8290	film, 2.56M
R6428	0228 8350	film, 1.28M
R6429	0234 0450	film, 256K, +1%
R6430	0234 0460	film, 512K, +1%
R6431	0234 0450	film, 256K, +1%
R6432	0234 0440	film, 160K, +1%

PARTS LIST FOR DISPLAY LOGIC SWITCH, SCALE LAMPS AND FAN

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
B6600	8100 4431	motor, dc, 60-cycle operation
-----	8100 5380	fan blade
B6601	8100 4281	motor, ac, 50-cycle operation
-----	8100 4421	fan blade

CAPACITORS

Note: All capacitors are fixed, ceramic, and 500V unless otherwise specified.

C5621	0316 7330	10 uuf, +5%
C6522	0326 4520	1000 uuf
C6523	0326 4640	0.01 uf
C6600	0319 9780	electrolytic, 40 uf, 250V
C6601	0326 4660	0.02 uf

LAMPS

DS6521 to DS6524	1201 0960	incandescent, miniature bayonet, .16 ampere (Illuminated Scale)
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RESISTORS (6500)

Notes: 1. All resistors are fixed, composition, +5%, and 1/2 watt unless otherwise specified.

2. Resistance values in ohms: K = thousand  
M = million

R6500	0239 0379	film, 215K, +1%
R6501	0239 0336	film, 39.2K, +1%
R6502 & R6503	0105 5680	variable, 100K, +10%
R6504	0239 0365	film, 249K, +1%
R6505	0239 0386	film, 169K, +1%
R6506	0227 8740	wire wound, 15K, 5W
R6507	0203 1100	390K
R6508	0203 0930	75K
R6509	0203 0880	47K
R6511	0203 0810	24K
R6520	0203 0560	2200
R6521	0203 0580	2700
R6522	0227 8740	wire wound, 15K, 5W
R6523	0203 0840	33K
R6524	0203 0980	120K
R6525	0203 0320	220

PARTS LIST FOR READOUT GENERATOR: MAIN FRAME MODULE

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
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CAPACITORS (7000)

Note: All capacitors are fixed, ceramic, and 500V unless otherwise specified.

C7001	0301 3300	electrolytic, 20 uf, 150V
C7002	0312 2430	0.02 uf,
C7003	0319 9010	plastic, 0.1 uf, +20%, 150V
C7004	0317 5250	mica, 75 uuf, +5%
C7005	0301 4580	15 uuf, +5%
C7006	0318 0220	plastic, 0.22 uf, +20%, 150V
C7007	0312 2430	0.02 uf
C7008 & C7009	0319 9210	22 uuf
C7010	0312 2430	0.02 uf
C7011	0319 0590	plastic, 0.1 uf, +20%, 200V
C7012	0317 2270	2.2 uuf
C7020	0312 2430	0.02 uf
C7021	0326 4520	1000 uuf

CAPACITORS (7100)

C7101	0312 2430	0.02 uf
C7102 & C7103	0318 0260	plastic, 0.022 uf, +20%, 150V
C7104	0319 5860	30 uuf, +5%
C7105	0316 7400	20 uuf, +5%
C7106	0318 0220	plastic, 0.22 uf, +20%, 150V
C7107	0317 2270	2.2 uuf
C7108	0318 0220	plastic, 0.22 uf, +20%, 150V
C7109	0318 0260	plastic, 0.022 uf, +20%, 150V

RELAYS

K7001 & K7002	0503 1460	armature
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## PARTS LIST FOR READOUT GENERATOR: MAIN FRAME MODULE

(Continued)

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
RESISTORS (7000)		
Notes: 1. All resistors are fixed, composition, +5% and 1/2 watt unless otherwise specified.		
2. Resistance values in ohms: K = thousand M = million		
R7001	0203 1650	100, +10%
R7002	0239 1383	film, 3300, 2W
R7003	0203 0990	130K
R7004	0203 3570	2400, 1W
R7005 & R7006	0203 1610	47, +10%
R7007	0203 1120	470K
R7008	0203 1060	270K
R7009	0203 1580	27, +10%
R7010	0203 1610	47, +10%
R7011	0239 1397	film, 11K, 2W
R7012	0203 1580	27, +10%
R7013	0203 1690	220, +10%
R7014	0239 1409	film, 33K, 2W
R7015	0239 1414	film, 47K, 2W
R7016 & R7017	0203 1110	430K
R7018 to R7020	0203 1610	47, +10%
R7021 to R7024	0203 0980	120K
R7025	0239 1387	film, 4700, 2W
R7026	0203 1690	220, +10%
R7027	0203 1950	33K, +10%
R7028	0229 2670	film, 25K, +0.5%
R7029	0105 5670	variable, 50K, +10%
R7030	0228 7280	1M, +10%, 1/4W
R7031	0234 3870	film, 698K, +1%
R7032	0234 3620	film, 19.1K, +1%
R7033	0234 3640	film, 25.5K, +1%
R7034	0239 0846	film, 1.21M, +1%
R7035	0239 0857	film, 3.16M, +1%
R7036	0229 6740	film, 62.5K, +0.5%
R7037	0234 0430	film, 7600, +0.5%

PARTS LIST FOR READOUT GENERATOR: MAIN FRAME MODULE  
(Continued)

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
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RESISTORS (7000)

Notes: 1. All resistors are fixed, composition, +5% and 1/2 watt unless otherwise specified.

2. Resistance values in ohms: K = thousand  
M = million

R7038	0204 1350	4.3M
R7039	0203 1140	560K
R7040	0107 1871	variable, 300K/300K
R7041	0203 1140	560K
R7042	0204 1110	430K

R7043 & R7044	0239 1416	film, 56K, 2W
R7045	0204 1350	4.3M
R7046	0204 1110	430K
R7047 & R7048	0203 1690	220, +10%
R7049	0203 1610	47, +10%
R7050	0203 1220	1.2M
R7051 & R7052	0203 0820	27K
R7053	0203 1610	47, +10%

RESISTORS (7100)

R7101	0203 0720	10K
R7102	0203 3790	20K, 1W
R7103	0203 1200	1M
R7104	0203 3790	20K 1W
R7105	0203 0580	2700

R7106	0203 1440	10M
R7107	0203 1690	220, +10%
R7108	0203 0760	15K
R7109	0203 0910	62K

R7111	0234 3860	film, 562K, +1%
R7112	0239 1429	film, 180K, 2W
R7113	0107 2041	variable, wire wound, 50/2K, 2W
R7114	0203 1690	220, +10%
R7115	0203 1610	47, +10%

PARTS LIST FOR READOUT GENERATOR: MAIN FRAME MODULE  
(Continued)

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
RESISTORS (7100)		
Notes: 1. All resistors are fixed, composition, $\pm 5\%$ and $1/2$ watt unless otherwise specified.		
2. Resistance values in ohms: K = thousand M = million		
R7118	0203 1440	10M
R7119	0228 8380	film, 10M, $\pm 1\%$
R7120	0229 8540	wire wound, 20K, $\pm 3\%$ , 3W
R7121	0234 3580	film, 11K, $\pm 1\%$
R7122	0229 8540	wire wound, 20K, $\pm 3\%$ , 3W
R7123	0229 7660	film, 2.21K, $\pm 1\%$
R7124	0204 1200	1M
R7125	0234 3700	film, 82.5K, $\pm 1\%$
R7126	0234 3650	film, 33.2K, $\pm 1\%$
R7127	0105 5670	variable, 50K, $\pm 10\%$
R7128	0234 3780	film, 267K, $\pm 1\%$
R7129	0204 1280	2.2M
R7131	0203 1690	220, $\pm 10\%$
R7132	0203 1610	47, $\pm 10\%$
R7133	0230 2270	film, 18K, 7W
R7134	0203 1370	5.1M
R7135	0203 1610	47, $\pm 10\%$
R7136	0203 1690	220, $\pm 10\%$
R7137	0239 1417	film, 62K, 2W
R7138	0234 3790	film, 392K, $\pm 1\%$
R7139	0234 0410	film, 19.1K, $\pm 0.5\%$
R7141	0234 0420	film, 25.5K, $\pm 0.5\%$
R7142	0234 8400	film, 15.15K, $\pm 0.5\%$
R7144	0234 3600	film, 13.7K, $\pm 1\%$
R7145	0203 1510	20M
R7146	0203 0740	12K
R7147	0203 1240	1.5M
R7148	0228 8380	10M, $\pm 1\%$
R7149	0234 3680	film, 69.8K, $\pm 1\%$



PARTS LIST FOR READOUT GENERATOR: MAIN FRAME MODULE  
(Concluded)

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
ELECTRON TUBES		
V701	2501 1760	E88CC/6922
V702	2500 8250	6BC7
V703	2501 1760	E88CC/6922
V704 & V705	2500 8250	6BC7
V706 & V707	2501 1760	E88CC/6922
V708	2501 1540	6BK7B

PARTS LIST FOR HORIZONTAL & VERTICAL READOUT SWITCHES:  
MAIN FRAME MODULE

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
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RESISTORS (7200)

Notes: 1. All resistors are fixed, film,  $\pm 1\%$ , 1/8 watt unless otherwise specified.

2. Resistance values in ohms: K = thousand

R7201 & R7202	0239 0201 *	25K
R7204 to R7209	0239 0201 *	25K
R7211 to R7219	0229 4510	5K
R7221 to R7229	0229 4500	1K
R7230 to R7232	0239 0201 *	25K
R7233 & R7234	0229 4510	5K
R7235 & R7236	0229 4500	1K

RESISTORS (7300)

R7301 to R7309	0239 0201 *	25K
R7311 to R7319	0229 4510	5K
R7321 to R7329	0229 4500	1K
R7331 & R7332	0239 0201 *	25K
R7333 & R7334	0229 4510	5K
R7335 & R7336	0229 4500	1K

\* To be inspected and routed to stores under 0239 0202 red dot, and 0239 0203 green dot.

PARTS LIST FOR CONNECTORS AND FRONT PANEL COMPONENTS:  
 MAIN FRAME MODULE

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
NEON LAMPS		
Note: The lamps below are neon, NE-2E, ultra-miniature bayonet, and white unless otherwise specified.		
DS6100	1201 1580	Sync Ready Indicator
DS6500	1201 1580	X 1 Indicator
DS6501	1201 1580	Beam Position Indicator, Left
DS6502	1201 1580	Beam Position Indicator, Right
DS6600	1201 1580	Sweep Ready Indicator

DS6605	1201 1580	Beam Position Indicator, Up
DS6606	1201 1580	Beam Position Indicator, Down

Note: The lamps below are neon, NE-2E with built-in 100K-ohm resistor, ultra-miniature bayonet, and white unless otherwise specified.

DS6400	1201 1530	Microsecond Indicator
DS6401	1201 1530	Millisecond Indicator
DS6402	1201 1530	Second Indicator
DS6403	1201 1530	Decimal Point Indicator, bX
DS6404	1201 1530	Decimal Point Indicator, cX
DS6405	1201 1530	Decimal Point Indicator, aX
DS6641	1201 1530	Decimal Point Indicator, aY
DS6642	1201 1530	Decimal Point Indicator, bY
DS6643	1201 1530	Decimal Point Indicator, cY
DS6644	1201 1530	Volt Indicator
DS6645	1201 1530	Millivolt Indicator
DS7001	1201 1530	Negative Polarity Indicator

INCANDESCENT LAMPS

Note: The lamps below are incandescent, miniature bayonet, and 0.15 ampere unless otherwise specified.

DS6525	1200 1310	Pilot Lamp
DS6601	1200 1310	Sweep Rate Dial Lamp

PARTS LIST FOR CONNECTORS AND FRONT PANEL COMPONENTS:  
 MAIN FRAME MODULE (Continued)

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
ELECTRICAL CONNECTORS		
J5100	0905 7350	receptacle, female, 24 contacts
J5200	0905 7350	receptacle, female, 24 contacts
J6000	0905 7360	receptacle, female, 32 contacts
J6100	0902 9080	receptacle, rf, female, 1 contact, BNC (EXT SYNC)
J6101	0902 9080	receptacle, rf, female, 1 contact, BNC (GATE OUT)
J6400	0905 7350	receptacle, female, 24 contacts
J6700	0901 5560	receptacle, female, 2 contacts
J6800	5028 6301	assembly, cable, external, horizontal readout
J6900	5028 6302	assembly, cable, external, vertical readout

RESISTORS (6100)

Notes: 1. All resistors are fixed, composition, and 1/2 watt unless otherwise specified.

2. Resistance values in ohms: K = thousand  
 M = million

R6104	0107 1961	variable, 100K/100K (TRIG LEVEL)
R6171	0107 1971	variable, 10K (STABILITY)

PARTS LIST FOR CONNECTORS AND FRONT PANEL COMPONENTS:  
 MAIN FRAME MODULE (Continued)

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
RESISTORS (6600)		
Notes: 1. All resistors are fixed, composition, and 1/2 watt unless otherwise specified.		
2. Resistance values in ohms: K = thousand M = million		
R6600	0239 0364	film, 15K, + 1%
R6601	0239 0387	film, 22.1K, + 1%
R6602	0239 0388	film, 4320, + 1%
R6603	0107 2031	variable, 50K (SWP CAL)
R6604	0107 1991	variable, 50K, + 20% (VERNIER)
R6605	0203 3790	20K, + 5%, 1W
R6611	0107 2011	variable, 100K/100K (INTENSITY)
R6612	0203 0660	5600, + 5%
R6613	0203 0820	27K, + 5%
R6614	0203 0790	20K, + 5%
R6620 F,R	0107 1871	variable, 300K/30K (PATTERN POSITIONING, HOR)
R6625	0107 1861	variable, 300K/300K (PATTERN POSITIONING)
R6626	0108 4100	variable, 50K, + 20%, 2W (SWEEP SEPARATE)
R6631	0203 0820	27K, + 5%
R6632	0203 0930	75K, + 5%
R6633	0203 0870	43K, + 5%
R6635	0203 3810	24K, + 5%, 1W
R6636	0107 1981	variable, 50K (ASTIG)
R6637	0108 5410	variable, 2.5M, + 20% (FOCUS)
R6641 to R6645	0228 7280	1M, + 10%, 1/4W
R7100	0107 1881	variable, 500K/500K (INDEX POSITIONING, HOR)

PARTS LIST FOR CONNECTORS AND FRONT PANEL COMPONENTS:  
 MAIN FRAME MODULE (Continued)

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
SWITCHES		
Note: All readout switches are thumb-activated and unit decade.		
S610	0501 4951	rotary ( TRIGGER SOURCE)
S611	0501 4941	rotary ( TRIGGER MODE)
S612	0107 1961	SPST ( Part of R6104)
S613	0108 4800	SPST ( Part of R6167)
S614	0501 5891	push outton ( SWITCH MODE)
S640	0501 3441	rotary, 9 decks, 24 positions ( SWEEP RATE)
S650 & S651	0501 6111	rotary ( DISPLAY LOGIC & EXPANDED SWITCH)
S660	0501 5901	push button ( ARMED SWEEP RESET)
S661	0503 1330	slide, DPDT ( VERNIER)
S662	0501 5341	toggle ( POWER)
S701	0501 5881	push button ( 10-90% ALIGNMENT)
S702	0501 4991	rotary ( POLARITY)
S710 to S712	0501 4961	Horizontal Readout Switches
S713	0501 6001	push button ( RECORD)
S720 to S722	0501 4961	Vertical Readout Switches

PARTS LIST FOR CONNECTORS AND FRONT PANEL COMPONENTS:  
MAIN FRAME MODULE (Concluded)

<u>Symbol</u>	<u>Part Number</u>	<u>Description</u>
	ELECTRON TUBES	
V101*	2501 2440	K1736P1
	2501 2450	K1736P2
	2501 2460	K1736P7
	2501 2470	K1736P11

\* Depending on Sales order



# DU MONT INSTRUMENT WARRANTY AND SERVICE NOTICE

## WARRANTY

Allen B. Du Mont Laboratories, Inc. warrants that each new Cathode-ray Oscilloscope, Automotive Test Equipment, and other Electronic or Electrical Test or Measuring Equipment (hereinafter referred to as "Instrument") manufactured or sold by it, is free from defects in material or workmanship under normal use and service for a period of one year from the date of its sale to the first purchaser for use. If, upon examination by Du Mont, the Instrument is determined to be defective in workmanship or material, Du Mont will, subject to the conditions set forth below, either repair the defective part or replace it with a new part. Du Mont shall not be liable for any delay or failure to furnish a replacement part resulting directly or indirectly from any governmental restriction, priority or allocation or any other governmental regulatory order or action, nor shall Du Mont be liable for damages by reason of the failure of the Instrument to perform properly or for any consequential damages. This warranty does not apply to any Instrument that has been subject to negligence, accident, misuse or improper installation or operation or that in any way has been tampered with, altered or repaired by any person other than an authorized Du Mont service organization or an employee thereof, or to any Instrument whose serial number has been altered, defaced or removed, or to any Instrument purchased within, and thereafter removed beyond, the continental limits of the United States.

This warranty shall, at Du Mont's option, become void unless registration thereof is promptly effected as provided below. This warranty is in lieu of all other warranties, expressed or implied, and no one is authorized to assume any liability on behalf of Du Mont or impose any obligation upon it in connection with the sale of any Instrument, other than as stated above.

## REGISTERING THE WARRANTY

To register this warranty, the enclosed warranty registration card must be properly filled out and mailed to the Instrument Service Department immediately upon receipt of the equipment. Complete information is necessary. **BOTH THE TYPE NUMBER AND THE SERIAL NUMBER OF THE INSTRUMENT MUST BE GIVEN ON THIS CARD.** Instruments must be examined immediately upon receipt, since claims for damage in transit will not be honored by the carrier unless prompt action is taken.

## CHANGES IN SPECIFICATIONS

The right is reserved to change the published specifications of equipment at any time and to furnish merchandise in accordance with current specifications without incurring any liability to modify equipment previously sold, or to supply new equipment in accordance with earlier specifications excepting under the classification of special apparatus.

## SERVICE

In order to insure service under our warranty, the enclosed warranty service card must be properly filled out and returned to the factory. In all cases where service or adjustment is requested, please first contact the factory or authorized depot, giving complete information concerning the nature of the failure and describing the manner in which the equipment was used when failure occurred. **THE TYPE NUMBER AND SERIAL NUMBER** of the equipment must also be given. In this way, much time can be saved and unnecessary inconvenience often avoided. When writing to the factory in this respect, address:

**ALLEN B. DU MONT LABORATORIES, INC.**  
Instrument Service Department  
Industrial Electronics Division  
750 Bloomfield Avenue, Clifton, New Jersey

The Instrument Service Department will then send to the customer the written procedure for disposition and shipping instructions. All equipment should be packed and shipped in accordance with this procedure; and identification tags should be attached to each tube or instrument.

## REPLACEMENT PARTS

If it is necessary to order a replacement component from the factory, always give the Type number and Serial number of the Instrument. Before ordering parts for in-warranty replacement or purchasing them for out-of-warranty replacement, be sure to consult the Parts List in the Instruction Manual. The Parts List gives the values, tolerances, ratings, and Du Mont part number for all electrical components used in the Instruments. This will help to expedite service.

**ALLEN B. DU MONT LABORATORIES, INC.**  
Industrial Electronics Division  
750 Bloomfield Avenue., Clifton, New Jersey

## PATENT NOTICE

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