

PARTS LIST

LOCATION NO. PARTS NAME SPECIFICATION

R239	RESISTOR, CARBON	1/4W 82K J
R240	RESISTOR, CARBON	1/4W 5.1K J
R241	RESISTOR, CARBON	1/4W 1.2K J
R301	RESISTOR, CARBON	1/4W 1K J
R302	RESISTOR, CARBON	1/4W 4.7K J
R303	RESISTOR, CARBON	1/4W 2.7K J
R304	RESISTOR, CARBON	1/4W 150K J
R305	RESISTOR, CARBON	1/4W 4.7K J
R306	RESISTOR, CARBON	1/4W 1K J
R307	RESISTOR, CARBON	1/4W 2.2K J
R308	RESISTOR, CARBON	1/4W 12K J
R309	RESISTOR, CARBON	1/4W 22K J
R310	RESISTOR, CARBON	1/4W 2K J
R311	RESISTOR, CARBON	1/4W 10K J
R312	RESISTOR, CARBON	1/4W 180K J
R313	RESISTOR, CARBON	1/4W 7.5K J
R314	RESISTOR, CARBON	1/4W 100K J
R315	RESISTOR, CARBON	1/4W 10K J
R316	RESISTOR, CARBON	1/2W 22 OHM J
R317	RESISTOR, CARBON	1/4W 15K J
R318	RESISTOR, CARBON	1/4W 15K J
R319	RESISTOR, CARBON	1/4W 3.9K J
R320	RESISTOR, CARBON	1/4W 1K J
R321	RESISTOR, CARBON	1/4W 20K J
R322	RESISTOR, METAL	3W 220 OHM J
R323	RESISTOR, CARBON	1/2W 470 OHM J
R324	RESISTOR, CARBON	1/2W 10 OHM J
R325	RESISTOR, FUSING	1W 120 OHM J
R326	RESISTOR, CARBON	1/4W 820 OHM J
R327	RESISTOR, FUSING	1/2W 100 OHM J
R328	RESISTOR, FUSING	1/2W 100 OHM J
R329	RESISTOR, CARBON	1/4W 20K J
R329-1	RESISTOR, CARBON	1/4W 20K J
R330	RESISTOR, CARBON	1/4W 10K J
R331	RESISTOR, CARBON	1/4W 100K J
R332	RESISTOR, CARBON	1/4W 220K J
R333	RESISTOR, CARBON	1/4W 100K J
R334	RESISTOR, CARBON	1/4W 47K J
R335	RESISTOR, CARBON	1/4W 10K J
R336	RESISTOR, FUSING	1/2W 1 OHM J
R337	RESISTOR, CARBON	1/2W 150K J
R338	RESISTOR, CARBON	1/2W 5.1K J
R339	RESISTOR, CARBON	1/4W 1K J
R340	RESISTOR, CARBON	1/4W 5.6K J
R341	RESISTOR, CARBON	1/4W 4.7K J
R342	RESISTOR, CARBON(14")	1/4W 10K J
	RESISTOR, CARBON(20")	1/4W 15K J
R343	RESISTOR, CARBON	1/4W 1K J
R347	RESISTOR, CARBON	1/4W 47K J
R348	RESISTOR, CARBON	1/4W 2.7K J
R349	RESISTOR, CARBON	1/4W 1K J
R350	RESISTOR, CARBON	1/4W 1.8K J
R501	RESISTOR, CARBON	1/2W 270K J
R502	RESISTOR, CARBON	1/2W 270K J
R503	RESISTOR, CARBON	1/2W 270K J
R504	RESISTOR, CARBON	1/2W 100K J
R505	RESISTOR, CARBON	1/2W 100K J
R506	RESISTOR, METAL	2W 100K J
R507	RESISTOR, METAL	2W 100K J
R508	RESISTOR, METAL FILM	1/4W 10K (RN) G
R509	RESISTOR, CARBON	1/4W 51 OHM J
R510	RESISTOR, CARBON	1/4W 100K J
R511	RESISTOR, CARBON	1/4W 1K J
R512	RESISTOR, CARBON	1/2W 5.1 OHM J
R513-1	RESISTOR, METAL	2W 1 OHM J

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R513-2	RESISTOR, METAL	2W 1 OHM J
R514	RESISTOR, CARBON	1/4W 1K J
R524	RESISTOR, METAL	2W 1 OHM J
R525	RESISTOR, CARBON	1W 12K J
R526	RESISTOR, CARBON	1/4W 68 OHM F
R527	RESISTOR, CARBON	1/4W 30K F
R528	RESISTOR, CARBON	1/4W 100K J
R529	RESISTOR, CARBON	1/4W 4.7K J
R530	RESISTOR, CARBON	1/4W 2.4K J
R531	RESISTOR, CARBON	1/2W 120K J
R532	RESISTOR, CARBON	1/2W 120K J
R533	RESISTOR, CARBON	1/2W 120K J
R540	RESISTOR, CARBON	1/4W 7.5K G
R541	RESISTOR, CARBON	1/4W 7.5K G
R542	RESISTOR, CARBON	1/4W 200K J
R543	RESISTOR, CARBON	1/4W 10K J
R544	RESISTOR, CARBON	1/4W 47K J
R545	RESISTOR, CARBON	1/4W 18K J
R546	RESISTOR, CARBON	1/4W 5.1K J

CAPACITORS

C101	CAPACITOR, ELT	50V 10μF
C102	CAPACITOR, ELT	50V 10μF
C103	CAPACITOR, ELT	50V 10μF
C104	CAPACITOR, ELT	50V 10μF
C105	CAPACITOR, ELT	50V 10μF
C106	CAPACITOR, CERAMIC	CK 50V 104pF
C107	CAPACITOR, CERAMIC	CK 50V 223pF
C108	CAPACITOR, CERAMIC	CK 50V 104pF
C109	CAPACITOR, CERAMIC	CK 50V 104pF
C110	CAPACITOR, CERAMIC	CK 50V 104pF
C111	CAPACITOR, CERAMIC	CK 50V 104pF
C112	CAPACITOR, ELT	16V 220μF
C113	CAPACITOR, CERAMIC	CC 50V 221pF
C115	CAPACITOR, ELT	50V 4.7μF
C116	CAPACITOR, ELT	16V 100μF
C117	CAPACITOR, CERAMIC	CK 50V 104pF
C118	CAPACITOR, CERAMIC	CK 50V 103pF
C119	CAPACITOR, CERAMIC	CK 50V 103pF
C120	CAPACITOR, CERAMIC	CK 50V 103pF
C121	CAPACITOR, CERAMIC	CK 50V 101pF
C122	CAPACITOR, CERAMIC	CK 50V 101pF
C123	CAPACITOR, CERAMIC	CK 50V 101pF
C124	CAPACITOR, ELT	100V 10μF
C127	CAPACITOR, ELT	160V 1μF
C128	CAPACITOR, ELT	160V 1μF
C129	CAPACITOR, ELT	160V 1μF
C131	CAPACITOR, ELT	160V 1μF
C132	CAPACITOR, ELT	100V 10μF
C133	CAPACITOR, ELT	160V 22μF
C134	CAPACITOR, ELT	160V 10μF
C135	CAPACITOR, CERAMIC	CK 500V 103pF
C136	CAPACITOR, CERAMIC	CK 1KV 103pF
C202	CAPACITOR, CERAMIC	CC 50V 104pF
C203	CAPACITOR, MYLAR	CQ92M 100V 333pF
C204	CAPACITOR, ELT	16V 47μF
C205	CAPACITOR, CERAMIC	CK 50V 104pF
C206	CAPACITOR, CERAMIC	CC 50V 472pF
C207	CAPACITOR, ELT	35V 1000μF
C208	CAPACITOR, CERAMIC	CK 50V 104pF
C209	CAPACITOR, ELT	35V 220μF
C210	CAPACITOR, MYLAR	CQ92M 100V 224pF J
C211	CAPACITOR, MYLAR	CQ92M 100V 104pF J
C212	CAPACITOR, MYLAR	CQ92M 100V 104pF J

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C213	CAPACITOR,MYLAR	CQ92M 100V 104pF J
C214	CAPACITOR,MYLAR	CQ92M 100V 104pF J
C215	CAPACITOR,ELT	16V 100μF
C216	CAPACITOR,ELT	25V 2200μF
C217	CAPACITOR,ELT	50V 10μF
C218	CAPACITOR,ELT	25V 100μF
C219	CAPACITOR,ELT	50V 10μF
C220	CAPACITOR,ELT	250V 1μF
C221	CAPACITOR,ELT	50V 1μF
C222	CAPACITOR,MYLAR	CQ92M 100V 224pF J
C224	CAPACITOR,CERAMIC	CK 50V 104pF
C225	CAPACITOR,ELT	50V 100μF
C226	CAPACITOR,ELT	50V 1μF
C301	CAPACITOR,CERAMIC	CQ92M 100V 103pF J
C302	CAPACITOR,MYLAR	CQ92M 100V 104pF J
C303	CAPACITOR,MYLAR	CQ92M 100V 103pF J
C304	CAPACITOR,CERAMIC	CC 50V 101pF
C305	CAPACITOR,MYLAR	CQ93M 100V 102pF J
C307	CAPACITOR,MYLAR	CQ93M 100V 102pF J
C308	CAPACITOR,P.P	100V 272pF J
C309	CAPACITOR,ELT	50V 1μF
C310	CAPACITOR,ELT	50V 1μF
C311	CAPACITOR,MYLAR	CQ93M 100V 103pF J
C312	CAPACITOR,MYLAR	CQ93M 100V 332pF J
C313	CAPACITOR,ELT	25V 100μF
C314	CAPACITOR,CERAMIC	CK 50V 104pF
C315	CAPACITOR,CERAMIC	CK 50V 104pF
C316	CAPACITOR,ELT	16V 47μF
C317	CAPACITOR,ELT	50V 1μF
C318	CAPACITOR,ELT	16V 47μF
C319	CAPACITOR,ELT	35V 100μF
C320	CAPACITOR,MYLAR	CQ92M 100V 473pF J
C321	CAPACITOR,MYLAR	CQ92M 100V 104pF J
C322	CAPACITOR,CERAMIC	CK 500V 472pF
C323	CAPACITOR,M.P.P (14")	1.6KV 392pF J
	CAPACITOR,M.P.P (20")	1.6KV 332pF J
C323-1	CAPACITOR,M.P.P	1.6KV 332pF J
C324	CAPACITOR,M.P.P(14")	200V 824pF J
	CAPACITOR,M.P.P(20")	200V 105pF J
C325	CAPACITOR,M.P.P	630V 103pF J
C326	CAPACITOR,CERAMIC	CK 50V 472pF
C327	CAPACITOR, ELT	100V 47μF
C328	CAPACITOR, ELT	160V 47μF
C329	CAPACITOR, ELT	35V 220μF
C331	CAPACITOR, ELT	250V 1μF
C332	CAPACITOR, ELT	250V 1μF
C333	CAPACITOR, MYLAR	CQ92M 100V 104pF J
C334	CAPACITOR, ELT	50V 10μF
C501	CAPACITOR, X-CAP	WHA 104M 250VAC
C502	CAPACITOR, X-CAP	WHA 104M 250VAC
C503	CAPACITOR, Y-CAP	SCFZ332M18BC 250VAC
C504	CAPACITOR, Y-CAP	SCFZ332M18BC 250VAC
C505	CAPACITOR, ELT	CE-LHS 200WV 330μF
C506	CAPACITOR, ELT	CE-LHS 200WV 330μF
C507	CAPACITOR, P.P	630V 683pF J
C508	CAPACITOR,CERAMIC	CK 50V 104pF
C509	CAPACITOR, ELT	25V 47μF
C510	CAPACITOR,CERAMIC	CK 50V 104pF
C511	CAPACITOR,CERAMIC	CK 50V 104pF
C512	CAPACITOR,CERAMIC	CK 50V 681pF
C513	CAPACITOR, MYLAR	CQ93M 100V 822pF J
C514	CAPACITOR, MYLAR	CQ92M 100V 102pF J
C521	CAPACITOR,CERAMIC	CK 1KV 331pF

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C522	CAPACITOR, ELT	35V 1000μF
C523	CAPACITOR, ELT	35V 470μF
C524	CAPACITOR,CERAMIC	CK 50KV 104pF
C525	CAPACITOR,CERAMIC	CK 1KV 331pF
C526	CAPACITOR, ELT	25V 470μF
C527	CAPACITOR, ELT	25V 470μF
C528	CAPACITOR, ELT	16V 470μF
C529	CAPACITOR,CERAMIC	CK 1KV 331pF
C530	CAPACITOR, ELT	25V 470μF
C531	CAPACITOR, ELT	16V 220μF
C532	CAPACITOR,CERAMIC	CK 1KV 331pF
C533	CAPACITOR, ELT	100V 100μF
C534	CAPACITOR, ELT	100V 100μF
C535	CAPACITOR,CERAMIC	CK 1KV 331pF
C536	CAPACITOR, ELT	160V 100μF
C537	CAPACITOR, MYLAR	CQ93M 100V 224pF J
C538	CAPACITOR, ELT	160V 100μF
C540	CAPACITOR, ELT	50V 1μF
C541	CAPACITOR, X-CAP	WHA 104M 250VAC

MISCELLANEOUS

SG101	SPARK GAP	1KV
SG102	SPARK GAP	1KV
SG103	SPARK GAP	1KV
SG104	SPARK GAP	1KV
SG105	SPARK GAP	1.5KV
F501	FUSE	250VAC 3A TIME-LAG
F501	FUSE HOLDER	FC51A
X601	CDT SOCKET	ISH-01
P101	CONN. HEADER	LW0640-06P
P101-1	WIRE ASS'Y	SWA-1001A 6P
P102	WIRE ASS'Y	SWA-1004A 8P
P103	CONNECTOR(PIN1)	Ø2.36
P201	CONN. HEADER	LW0640-10P
P202	CONN. HEADER	LW0640-10P
P203	CONN. HEADER	7556P060013
P204	CONN. HEADER	7556P060013
P205	WIRE ASS'Y	SWA-1002A 12P
P206	CONN. HEADER	LW0640-12P
P207	CONN. HEADER	LW0640-08P
P208	WIRE ASS'Y	SWA-1003A
P208-1	WIRE ASS'Y	SWA-1003A
P501	CONN. HEADER	LWP1143-02P
P502	PIN BASE(1PIN)	Ø2.36 x 2
P503	CONN. ASS'Y	BL101
P504	WIRE ASS'Y	SWA-1004A 10P
SIGNAL CABLE	15P D-SUB	SWA-2001AB
	24P 1625	SWA-2002AB
X101	CDT(14")	M34KVU00XX
	CPT(20")	G-A48ACB24X
P.C.B	MAIN B/D	
	SOCKET B/D	
	POWER B/D	
	CONTROL B/D	



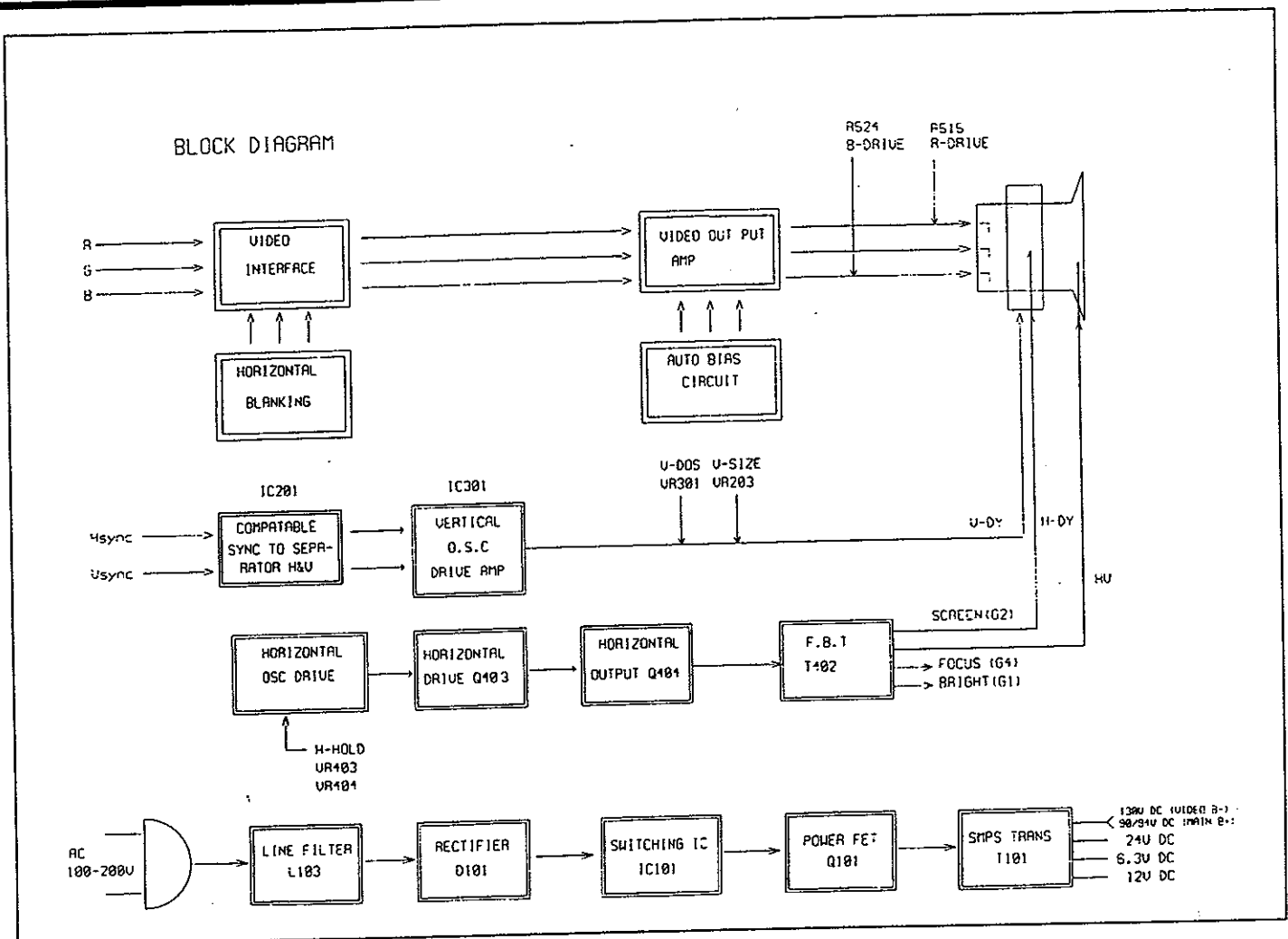
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Above is presented the block diagram of the monitor as a whole. Each major section is presented in a block. The individual circuits that make up the section is covered later and are not shown here. This simplistic block diagram will allow you a fundamental understanding of the complete monitor. This will help when covering the sections individually. The process from video signal to video display starts with the video signal generated from the source. The signal is composed of information that is fed into various sections of the monitor.

Video Drive Section

The actual video data is fed to the video drive section. This section accepts the red, green, and blue (RGB) color input lines, amplifies them separately and then feeds them to the CRT input. The information on the RGB inputs indicate the color at a specific point on the CRT and at a specific time. This color information rides on a data beam of energy that moves across the screen of the CRT, striking it at specific points and displaying the data or color. How does that information get to the right point on the screen? This is a function of the sync section. The horizontal sync section designates its position left to right. The vertical sync section designates its position top to bottom.

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