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TM 9-6625-2467-15

TECHNICAL MANUAL)
)
No. 9-6625-2467-15)

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, D.C., 15 December 1969

SPECTRUM ANALYZER (TEKTRONIX, INC. MODEL 491)

(6625-494-2937)

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Abbreviations and symbols used in this manual are based on or taken directly from IEEE Standard 260 “Standard Symbols for Units”, MIL-STD-12B and other standards of the electronics industry.

SECTION 7
ELECTRICAL PARTS LIST

Values are fixed unless marked Variable.

Ckt. No.	Tektronix Part No.	Serial/Model No. Eff	Disc	Description			
				Bulbs			
B901	150-0045-00			Incandescent #685			
B942	150-0059-00			Incandescent #386			
B943	150-0059-00			Incandescent #386			
				Capacitors			
Tolerance ±20% unless otherwise indicated.							
C10	283-0067-00	B010100	B119999	0.001 μF	Cer	200 V	10%
C10	283-0121-00	B120000		0.001 μF	Cer	200 V	
C14	281-0105-00			0.8-8.5 pF, Var	Cer		
C16	281-0105-00			0.8-8.5 pF, Var	Cer		
C17	281-0518-00	B010100	B119999	47 pF	Cer	500 V	
C17	281-0651-00	B120000		47 pF	Cer		5%
C23	281-0613-00			10 pF	Cer	200 V	10%
C24	281-0105-00			0.8-8.5 pF, Var	Cer		
C26	281-0613-00			10 pF	Cer	200 V	10%
C27	281-0105-00			0.8-8.5 pF, Var	Cer		
C29	281-0613-00			10 pF	Cer	200 V	10%
C30	281-0105-00			0.8-8.5 pF, Var	Cer		
C32	281-0613-00			10 pF	Cer	200 V	10%
C34	281-0105-00			0.8-8.5 pF, Var	Cer		
C51	283-0067-00			0.001 μF	Cer	200 V	10%
C64[1]							
C66[1]							
C68[1]							
C69[1]							
C83	281-0616-00			6.8 pF	Cer	200 V	
C84	281-0105-00			0.8-8.5 pF, Var	Cer		
C86	281-0616-00			6.8 pF	Cer	200 V	
C87	281-0105-00			0.8-8.5 pF, Var	Cer		
C89	281-0616-00			6.8 pF	Cer	200 V	
C90	281-0105-00			0.8-8.5 pF, Var	Cer		
C92	281-0616-00			6.8 pF	Cer	200 V	
C94	281-0105-00			0.8-8.5 pF, Var	Cer		
C101	281-0101-00			1.5-9.1 pF, Var	Air		
C102	281-0099-00			1.3-5.4 pF, Var	Air		
C104	281-0101-00			1.5-9.1 pF, Var	Air		
C105	281-0648-00			56 pF	Cer		5%
C106	281-0101-00			1.5-9.1 pF, Var	Air		
C107	281-0099-00			1.3-5.4 pF, Var	Air		
C108	281-0101-00			1.5-9.1 pF, Var	Air		
C123	281-0635-00			1000 pF	Cer	500 V	
C124	281-0523-00	B010100	B039999	100 pF	Cer	350 V	
C124	283-0599-00	B040000		98 pF	Mica	500 V	5%

[1]Furnished as a unit with Mixer *(119-0064-00)

Capacitors *(cont)*

Ckt. No.	Tektronix Part No.	Serial/Model No. Eff	Disc	Description			
C128	283-0065-01			0.001 μF	Cer	100 V	5%
C130	283-0103-00			180 μF	Cer	500 V	5%
C132	283-0039-00			0.001 μF	Cer	500 V	
C133	281-0635-00			1000 pF	Cer	500 V	
C136	281-0616-00	XB040000		6.8 pF	Cer	200 V	
C137	281-0063-00			9-35 pF, Var	Cer		
C138	281-0635-00			1000 pF	Cer	500 V	
C139	283-0039-00			0.001 μF	Cer	500 V	
C140	283-0103-00			180 μF	Cer	500 V	5%
C143	281-0635-00			1000 pF	Cer	500 V	
C145	281-0558-00			18 pF	Cer	500 V	
C146	281-0549-00			68 pF	Cer	500 V	10%
C147	281-0523-00			100 pF	Cer	350 V	
C148	283-0065-01			0.001 μF	Cer	100 V	5%
C149	281-0635-00			1000 pF	Cer	500 V	
C151	281-0549-00			68 pF	Cer	500 V	10%
C152	281-0549-00			68 pF	Cer	500 V	10%
C187	281-0549-00			68 pF	Cer	500 V	10%
C188	281-0549-00			68 pF	Cer	500 V	10%
C225	283-0003-00			0.01 μF	Cer	150 V	
C229	285-0703-00			0.1 μF	PTM	100 V	5%
C233	283-0003-00			0.01 μF	Cer	150 V	
C236	283-0003-00			0.01 μF	Cer	150 V	
C237	283-0003-00			0.01 μF	Cer	150 V	
C250	283-0067-00			0.001 μF	Cer	200 V	10%
C254	283-0003-00			0.01 μF	Cer	150 V	
C258	283-0003-00			0.01 μF	Cer	150 V	
C270	290-0167-00			10 μF	Elect.	15 V	
C293	283-0010-00			0.05 μF	Cer	50 V	
C300	283-0039-00			0.001 μF	Cer	500 V	
C310	283-0065-00			0.001 μF	Cer	100 V	5%
C311	281-0613-00			10 pF	Cer	200 V	10%
C314	283-0563-00			1000 pF	Mica	500 V	10%
C315	281-0610-00			2.2 pF	Cer	200 V	
C320	283-0039-00			0.001 μF	Cer	500 V	
C330	283-0003-00			0.01 μF	Cer	150 V	
C331	283-0003-00			0.01 μF	Cer	150 V	
C346	283-0050-00			0.008 μF	Cer	200 V	
C347	283-0050-00			0.008 μF	Cer	200 V	
C349	281-0503-00			8 pF	Cer	500 V	±0.5 pF
C357	283-0050-00			0.008 μF	Cer	200 V	
C358	281-0105-00			0.8-8.5 pF, Var	Cer		
C361	283-0039-00			0.001 μF	Cer	500 V	
C362	281-0635-00			1000 pF	Cer	500 V	
C363	283-0039-00			0.001 μF	Cer	500 V	

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Capacitors *(cont)*

Ckt. No.	Tektronix Part No.	Serial/Model No. Eff	Disc	Description			
C365	283-0025-00			0.0005 μF	Cer	500 V	5%
C367	283-0039-00			0.001 μF	Cer	500 V	
C368	283-0003-00			0.01 μF	Cer	150 V	
C373	283-0039-00			0.001 μF	Cer	500 V	
C376	283-0039-00			0.001 μF	Cer	500 V	
C383	283-0039-00			0.001 μF	Cer	500 V	
C384	281-0105-00			0.8-8.5 pF, Var	Cer		
C385	281-0105-00			0.8-8.5 pF, Var	Cer		
C386	283-0039-00			0.001 μF	Cer	500 V	
C401	283-0065-01			0.001 μF	Cer	100 V	5%
C412	283-0003-00			0.01 μF	Cer	100 V	
C413	283-0039-00			0.001 μF	Cer	500 V	
C416	283-0001-00			0.005 μF	Cer	500 V	
C422	281-0599-00			1 pF	Cer	200 V	
C423	283-0065-01			0.001 μF	Cer	100 V	5%
C424	281-0564-00			24 pF	Cer	500 V	5%
C425	281-0105-00			0.8-8.5 pF, Var	Cer		
C426	283-0065-01			0.001 μF	Cer	100 V	5%
C427	283-0065-01			0.001 μF	Cer	100 V	5%
C433	283-0065-01			0.001 μF	Cer	100 V	5%
C434	281-0645-00			8.2 pF	Cer	500 V	±0.25 pF
C435	281-0105-00			0.8-8.5 pF, Var	Cer		
C436	283-0065-01			0.001 μF	Cer	100 V	5%
C437	283-0001-00			0.005 μF	Cer	500 V	
C443	283-0001-00			0.005 μF	Cer	500 V	
C445	281-0564-00			24 pF	Cer	500 V	5%
C446	281-0579-00			21 pF	Cer	500 V	5%
C447	281-0550-00			120 pF	Cer	500 V	10%
C450	281-0511-00			22 pF	Cer	500 V	10%
C453	283-0001-00			0.005 μF	Cer	500 V	
C454	283-0566-00			100 pF	Mica	500 V	5%
C456	283-0001-00			0.005 μF	Cer	500 V	
C457	283-0001-00			0.005 μF	Cer	500 V	
C462	283-0039-00			0.001 μF	Cer	500 V	
C463	283-0001-00			0.005 μF	Cer	500 V	
C464	283-0566-00			100 pF	Mica	500 V	5%
C466	283-0001-00			0.005 μF	Cer	500 V	
C467	283-0001-00			0.005 μF	Cer	500 V	
C469	283-0039-00			0.001 μF	Cer	500 V	
C501	281-0523-00			100 pF	Cer	350 V	
C502	281-0523-00			100 pF	Cer	350 V	
C504	281-0105-00			0.8-8.5 pF, Var	Cer		
C508	281-0105-00			0.8-8.5 pF, Var	Cer		
C515	283-0065-01			0.001 μF	Cer	100 V	5%
C524	283-0039-00			0.001 μF	Cer	500 V	

Capacitors *(cont)*

Ckt. No.	Tektronix Part No.	Serial/Model No. Eff	Disc	Description			
C525	283-0039-00			0.001 μF	Cer	500 V	
C527	283-0003-00			0.01 μF	Cer	150 V	
C530	283-0003-00			0.01 μF	Cer	150 V	
C534	283-0003-00			0.01 μF	Cer	150 V	
C537	283-0003-00			0.01 μF	Cer	150 V	
C539	283-0003-00			0.01 μF	Cer	150 V	
C600	281-0629-00			33 pF	Cer	600 V	5%
C601	281-0118-00			8-90 pF, Var	Mica		
C602	283-0605-00			678 pF	Mica	300 V	1%
C603	281-0628-00			15 pF	Cer	600 V	5%
C604	281-0118-00			8-90 pF, Var	Mica		
C605	283-0605-00			678 pF	Mica	300 V	1%
C606	281-0628-00			15 pF	Cer	600 V	5%
C607	281-0118-00			8-90 pF, Var	Mica		
	283-0605-00			678 pF	Mica	300 V	1%
C609	281-0628-00			15 pF	Cer	600 V	5%
C610	281-0118-00			8-90 pF, Var	Mica		
C611	283-0605-00			678 pF	Mica	300 V	1%
C612	281-0629-00			33 pF	Cer	600 V	5%
C622	283-0003-00			0.01 μF	Cer	150 V	
C625	283-0067-00			0.001 μF	Cer	200 V	10%
C627	283-0067-00			0.001 μF	Cer	200 V	10%
C630	283-0003-00			0.01 μF	Cer	150 V	
C632	283-0003-00			0.01 μF	Cer	150 V	
C633	283-0003-00			0.01 μF	Cer	150 V	
C635	283-0003-00			0.01 μF	Cer	150 V	
C641	281-0629-00			33 pF	Cer	600 V	5%
C642	281-0629-00			33 pF	Cer	600 V	5%
C647	283-0003-00			0.01 μF	Cer	150 V	
C651	281-0518-00			47 pF	Cer	500 V	
C655	283-0081-00			0.1 μF	Cer	25 V	+80%—20%
C664	283-0003-00	XB130000		0.01 μF	Cer	150 V	
C666	283-0079-00			0.01 μF	Cer	250 V	
C670	281-0627-00			1 pF	Cer	600 V	
C680	283-0027-00			0.02 μF	Cer	50 V	
C681	283-0027-00			0.02 μF	Cer	50 V	
C684	281-0541-00			6.8 pF	Cer	500 V	10%
C692	283-0079-00			0.01 μF	Cer	250 V	
C696	283-0079-00			0.01 μF	Cer	250 V	
C701	*285-0736-00			0.1 μF	MT	60 V	+5%—15%
C703	283-0079-00			0.01 μF	Cer	250 V	
C709	283-0027-00			0.02 μF	Cer	50 V	
C712	283-0027-00			0.02 μF	Cer	50 V	
C717	283-0027-00			0.02 μF	Cer	50 V	
C722	283-0027-00			0.02 μF	Cer	50 V	
C732	283-0027-00			0.02 μF	Cer	50 V	

Capacitors (cont)

Ckt. No.	Tektronix Part No.	Serial/Model No. Eff	Disc	Description			
C739	283-0079-00			0.01 μF	Cer	250 V	
C741	281-0536-00			1000 pF	Cer	500 V	10%
C753	283-0027-00			0.02 μF	Cer	50 V	
C755	281-0575-00			39 pF	Cer	500 V	1%
C761	283-0078-00			0.001 μF	Cer	500 V	
C785A	*295-0103-00			10 μF	Timing Series		
C785B				1 μF			
C785C				0.1 μF			
C785D				0.01 μF			
C785E				0.001 μF			
C794	283-0079-00			0.01 μF	Cer	250 V	
C797	281-0501-00			4.7 pF	Cer	500 V	±1 pF
C802	283-0079-00			0.01 μF	Cer	250 V	
C825	283-0078-00			0.001 μF	Cer	500 V	
C833	283-0079-00			0.01 μF	Cer	250 V	
C902	283-0006-00			0.02 μF	Cer	500 V	
C903	283-0057-00			0.1 μF	Cer	200 V	+80%—20%
C904A,B,C	290-0306-00			100 x 20 x 20 μF	Elect.	250 V/200 V/25 V	
C906	283-0078-00			0.001 μF	Cer	500 V	
C910	283-0078-00			0.001 μF	Cer	500 V	
C913	281-0523-00	B010100	B059999	100 pF	Cer	350 V	
C913	281-0536-00	B060000		1000 pF	Cer	500 V	10%
C922	283-0004-00			0.02 μF	Cer	150 V	
C924	290-0174-00			4500 μF	Elect.	25 V	+100%—10%
C925	290-0167-00			10 μF	Elect.	15 V	
C930	281-0511-00			22 pF	Cer	500 V	10%
C952	283-0004-00			0.02 μF	Cer	150 V	
C954	290-0279-00			1000 μF	Elect.	25 V	
C958	283-0079-00			0.01 μF	Cer	250 V	
C964	290-0107-00			25 μF	Elect.	25 V	
C968	290-0248-01			150 μF	Elect.	15 V	
C972	283-0092-00			0.03 μF	Cer	200 V	+80%—20%
C974	283-0059-00			1 μF	Cer	25 V	+80%—20%
C976	283-0059-00			1 μF	Cer	25 V	+80%—20%
C982	283-0079-00			0.01 μF	Cer	250 V	
C984	283-0027-00			0.02 μF	Cer	50 V	
C990	283-0079-00			0.01 μF	Cer	250 V	
C992	283-0027-00			0.02 μF	Cer	50 V	
C998	283-0059-00			1 μF	Cer	25 V	+80%—20%
C1001	283-0081-00			0.1 μF	Cer	25 V	+80%—20%
C1009	283-0081-00			0.1 μF	Cer	25 V	+80%—20%
C1010	285-0703-00			0.1 μF	PTM	100 V	5%
C1011	283-0008-00			0.1 μF	Cer	500 V	
C1012	285-0572-00			0.1 μF	PTM	200 V	
C1014	283-0120-00			0.015 μF	Cer	2500 V	+80%—30%
C1016	283-0120-00			0.015 μF	Cer	2500 V	+80%—30%

Capacitors *(cont)*

Ckt. No.	Tektronix Part No.	Serial/Model No. Eff	Disc	Description			
C1020	283-0092-00			0.03 μF	Cer	200 V	+80%—20%
C1021	283-0082-00			0.01 μF	Cer	4000 V	+80%—20%
C1025	283-0021-00			0.001 μF	Cer	5000 V	
C1032	283-0004-00			0.02 μF	Cer	150 V	
C1033	283-0004-00			0.02 μF	Cer	150 V	
C1042	283-0079-00			0.01 μF	Cer	250 V	
C1054	283-0059-00			1 μF	Cer	25 V	+80%—20%
C1059	283-0079-00			0.01 μF	Cer	250 V	
C1070	283-0079-00			0.01 μF	Cer	250 V	
C1080	283-0079-00			0.01 μF	Cer	250 V	
C1082	281-0529-00			1.5 pF	Cer	500 V	±0.25 pF
C1086	283-0027-00			0.02 μF	Cer	50 V	
C1101	283-0003-00			0.01 μF	Cer	150 V	
C1102	281-0523-00			100 pF	Cer	350 V	
C1103	283-0003-00			0.01 μF	Cer	150 V	
C1104	283-0003-00			0.01 μF	Cer	150 V	
C1108	281-0638-00			240 pF	Cer	500 V	5%
C1109	283-0065-00			0.001 μF	Cer	100 V	5%
C1112	281-0549-00			68 pF	Cer	500 V	10%
C1121	283-0003-00			0.01 μF	Cer	150 V	
C1126	281-0528-00			82 pF	Cer	500 V	10%
C1128	283-0081-00			0.1 μF	Cer	25 V	+80%—20%
C1131	283-0065-00			0.001 μF	Cer	100 V	5%
C1134	283-0146-00			4.7 pF	Cer	50 V	±0.5 pF
C1135	283-0146-00			4.7 pF	Cer	50 V	±0.5 pF
C1136	283-0127-00			2.5 pF	Cer	100 V	
C1137	283-0065-00			0.001 μF	Cer	100 V	5%
C1138	283-0146-00			4.7 pF	Cer	50 V	±0.5 pF
C1139	283-0127-00			2.5 pF	Cer	100 V	
C1140	283-0127-00			2.5 pF	Cer	100 V	
C1144	283-0127-00			2.5 pF	Cer	100 V	
C1150	283-0127-00			2.5 pF	Cer	100 V	
C1154	283-0127-00			2.5 pF	Cer	100 V	
C1160	283-0127-00			2.5 pF	Cer	100 V	
C1164	283-0127-00			2.5 pF	Cer	100 V	
C1170	283-0065-00			0.001 μF	Cer	100 V	5%
C1172	283-0065-00	B010100	B049999	0.001 μF	Cer	100 V	5%
C1172	283-0078-00	B050000		0.001 μF	Cer	500 V	
C1174	283-0065-00	B010100	B049999	0.001 μF	Cer	100 V	5%
C1174	283-0078-00	B050000		0.001 μF	Cer	500 V	
C1178	283-0003-00			0.01 μF	Cer	150 V	
C1180	283-0065-00			0.001 μF	Cer	100 V	5%
C1187	283-0059-00			1 μF	Cer	25 V	+80%—20%
C1192	283-0065-00			0.001 μF	Cer	100 V	5%
C1193	283-0003-00			0.01 μF	Cer	150 V	

Diodes

Ckt. No.	Tektronix Part No.	Serial/Model No. Eff	Disc		Description
D14, D16	*153-0024-00			Germanium	1 N82A (matched pair)
D42	152-0272-00			Silicon	Varicap 6.8 pF
D64	152-0194-00			Silicon	1N416D
D74	152-0197-00			Silicon	1N415D Microwave Mixer
D82	152-0363-00			Silicon	Microwave mixer
D84	152-0364-00			Silicon	Microwave mixer
D86	152-0362-00			Silicon	Microwave Mixer
D203	*152-0185-00			Silicon	Replaceable by 1N4152
D224	*152-0061-00			Silicon	Tek Spec
D252	152-0034-00	B010100	B089999	Zener	1N753 0.4 W, 6.2 V, 10%
D252	152-0280-00	B090000		Zener	1N753 0.4 W, 6.2 V, 5%
D270	*152-0185-00			Silicon	1N4152
D272	*152-0185-00			Silicon	1N4152
D277	152-0246-00			Silicon	Low leakage 0.25 W, 40 V
D279	152-0246-00			Silicon	Low leakage 0.25 W, 40 V
D314	152-0231-00			Silicon	Varicap MV1872 60 V, 22 pF
D334	*152-0107-00			Silicon	Replaceable by 1 N647
D361	*152-0153-00			Silicon	Replaceable by 1 N4244
D362	*152-0185-00			Silicon	1N4152
D365	*152-0153-00			Silicon	Replaceable by 1 N4244
D373, D376	*153-0025-00			Silicon	Selected 1 N4244 (1 pair)
D383, D386	*153-0025-00			Silicon	Selected 1 N4244 (1 pair)
D412	*152-0107-00			Silicon	Replaceable by 1 N647
D454	152-0141-02			Silicon	1N4152
D506	152-0141-02			Silicon	1N4152
D550	*152-0107-00			Silicon	Replaceable by 1 N647
D612	152-0188-00	B010100	B189999	Germanium	1N64
D612	152-0079-00	B190000		Germanium	HD 1841
D613	152-0188-00	B010100	B189999	Germanium	1N64
D613	152-0079-00	B190000		Germanium	HD 1841
D640	152-0186-00			Germanium	1N198
D641	152-0186-00			Germanium	1N198
D644	*152-0075-00			Germanium	Tek Spec
D647	152-0142-00	B010100	B089999	Zener	1N972A 0.4 W, 30 V, 10%
D647	152-0282-00	B090000		Zener	1N972B 8.4 W, 30 V, 5%
D650	152-0141-02			Silicon	1N4152
D652	152-0141-02			Silicon	1N4152
D660	*152-0185-00			Silicon	Replaceable by 1N4152
D670	*152-0185-00			Silicon	Replaceable by 1 N4152
D671	*152-0185-00			Silicon	Replaceable by 1N4152
D693	*152-0185-00			Silicon	Replaceable by 1N4152
D703	*152-0185-00			Silicon	Replaceable by 1 N4152
D704	*152-0185-00			Silicon	Replaceable by 1N4152
D705	152-0141-02			Silicon	1N4152
D737	152-0402-00			Tunnel	(Note diode polarity) 2.2 mA 25 pF

Diodes (cont)

Ckt. No.	Tektronix Part No.	Serial/Model No. Eff	Disc	Description
D742	*152-0075-00			Germanium Tek Spec
D744	*152-0075-00			Germanium Tek Spec
D767	*152-0185-00			Silicon Replaceable by 1 N4152
D768	*152-0185-00			Silicon Replaceable by 1 N4152
D770	*152-0075-00			Germanium Tek Spec
D781	152-0246-00			Silicon Low leakage 0.25 W, 40V
D782	152-0246-00			Silicon Low leakage 0.25 W, 40V
D784	*152-0185-00			Silicon Replaceable by 1N4152
D798	*152-0185-00			Silicon Replaceable by 1 N4152
D799	*152-0185-00			Silicon Replaceable by 1 N4152
D830	*152-0185-00			Silicon Replaceable by 1N4152
D831	*152-0185-00			Silicon Replaceable by 1 N4152
D902A,B,C,D(4)	*152-0107-00			Silicon Replaceable by 1 N647
D904	*152-0185-00			Silicon Replaceable by 1N4152
D905	*152-0185-00			Silicon Replaceable by 1N4152
D912	*152-0185-00			Silicon Replaceable by 1N4152
D922	152-0198-00			Rectifier Bridge MDA 962-3 (Motorola)
D923	152-0198-00			Rectifier Bridge MDA 962-3 (Motorola)
D932	*152-0185-00			Silicon Replaceable by 1 N4152
D940	152-0195-00			Zener 1N751A 0.4 W, 5.1 V, 5%
D952	152-0066-00			Silicon 1N3194
D953	152-0066-00			Silicon 1N3194
D964	152-0123-00			Zener 1N935A 0.4 W, 9.1 V, 5% TC
D967	*152-0185-00			Silicon Replaceable by 1 N4152
	*152-0185-00			Silicon Replaceable by 1N4152
D1010	*152-0107-00			Silicon Replaceable by 1 N647
D1014	152-0192-00			Silicon 7701-5X Varo
D1016	152-0192-00			Silicon 7701-5X Varo
D1020	*152-0107-00			Silicon Replaceable by 1 N647
D1050	*152-0185-00			Silicon Replaceable by 1 N4152
D1051	*152-0185-00			Silicon Replaceable by 1 N4152
D1054	*152-0075-00			Germanium Tek Spec
D1073	*152-0075-00			Germanium Tek Spec
D1116	152-0271-00			Silicon Varicap 2.2 pF – 26 pF
D1117	152-0271-00			Silicon Varicap 2.2 pF – 26 pF
D1122	152-0141-02			Silicon 1N4152
D1123	152-0141-02			Silicon 1N4152
D1124	152-0125-00			Tunnel Selected TD3A 4.7 mA
D1134	*152-0325-00			Snap off Tek made
D1139	*152-0325-00			Snap off Tek made
D1142A,B	*152-0152-00			GaAs (1 pair) Tek made
D1152A,B	*152-0152-00			GaAs (1 pair) Tek made
D1162A,B	*152-0152-00			GaAs (1 pair) Tek made
D1170	*152-0185-00			Silicon Replaceable by 1N4152
D1174	*152-0185-00			Silicon Replaceable by 1 N4152
D1196	*152-0185-00			Silicon Replaceable by 1N4152
D1198	*152-0185-00			Silicon Replaceable by 1N4152

Fuses

Ckt. No.	Tektronix Part No.	Serial/Model No. Eff	Disc	Description
F900	159-0025-00			0.5 A 3AG Fast-Blo
F902	159-0022-00			1 A 3AG Fast-Blo
F1008	159-0022-00			1 A 3AG Fast-Blo

Filter

FL900	119-0095-00	B010100	B059999	Low Pass 275 V AC
FL900	119-0095-03	B060000		Low Pass 275 V AC

Connectors

J1	131-0390-00			BNC, female
J10	131-0372-00			Coaxial
J14	131-0372-00			Coaxial
J18	131-0372-00			Coaxial
J20	131-0372-00			Coaxial
J34	131-0372-00			oa
J40A[2]				
J40B[2]				
J41A[2]				
J41B[2]				
J42A[2]				
J42B[2]				
J45[3]				
J46[3]				
J47[3]				
J50[4]				
J51[4]				
J52[4]				
J65	*103-0057-00			Adapter, Snap-On
J69[5]				
J71[2]				
J72[2]				
J73[2]				
J75[2]				
J80	131-0372-00			Coaxial
J94	131-0372-00			Coaxial
J100	131-0372-00			Coaxial
J109	131-0372-00			Coaxial
J120	131-0372-00			Coaxial
J147	131-0372-00			Coaxial
J148	131-0372-00			Coaxial

[2]Furnished as a unit with Oscillator *(119-0106-00)

[3]Furnished as a unit with Diplexer (119-0100-00)

[4]Furnished as a unit with Resistive "T" Network 119-0091-00)

[5]Furnished as a unit with Mixer *(119-0064-00)

Connectors *(cont)*

Ckt. No.	Tektronix Part No.	Serial/Model No. Eff	Disc	Description
J151	131-0372-00			Coaxial
J188	131-0372-00			Coaxial
J363	131-0372-00			Coaxial
J370	131-0372-00			Coaxial
J373	131-0372-00			Coaxial
J376	131-0372-00			Coaxial
J379	131-0372-00			Coaxial
J401	131-0372-00			Coaxial
J470	131-0372-00			Coaxial
J501	131-0372-00			Coaxial
J650	131-0106-01			Coaxial, 1 contact, female
J700	131-0106-01			Coaxial, 1 contact, female
J790	131-0106-01			Coaxial, 1 contact, female
J1120	131-0352-01			BNC
J1142	131-0391-00			Coaxial, male
J1152	131-0391-00			Coaxial, male
J1162	131-0391-00			Coaxial, male

Inductors

L10	*108-0220-00	B010100	B119999	0.15 μH
L10	*108-0283-00	B120000		0.13 μH
L21	*108-0388-00			35 nH
L23	*108-0385-00			8 nH
L24	*108-0390-00			45 nH
L26	*108-0387-00			24 nH
L27	*108-0389-00			40 nH
L29	*108-0386-00			15 nH
L30	*108-0389-00			40 nH
L51	*108-0437-00			Choke R.F.
L65[6]				
L66	*108-0394-00			30 μH
L67[6]				
L68[6]				
L81	*108-0380-00			32 nH
L83	*108-0377-00			7 nH
L84	*108-0382-00			41 nH
L86	*108-0379-00			22 nH
L87	*108-0381-00			36 nH
L89	*108-0378-00			14 nH
L90	*108-0381-00			36 nH
L101	*108-0371-00			0.23 μH
L102	*108-0370-00			0.14 μH
L104	*108-0369-00			0.12 μH
L105	*108-0401-00			14 nH
L106	*108-0369-00			0.12 μH
L107	*1 08-0370-00			0.14 μH
L108	*1 08-0371 -00			0.23 μH

[6]Furnished as a unit with Mixer *(1 19-0064-00)

Inductors *(cont)*

Ckt. No.	Tektronix Part No.	Serial/Model No. Eff	Disc	Description
L124	*108-0373-00	B010100	B039999	56 nH
L124	*108-0374-00	B040000		55 nH
L134	*114-0205-00			54-66 nH, Var Core 276-0506-00
L144	*114-0206-00			234-286 nH, Var Core 276-0506-00
L147	*114-0205-00			54-66 nH, Var Core 276-0506-00
L151	*108-0310-00			0.09 μH
L188	*108-0310-00			0.09 μH
L222	276-0507-00	XB010112		Core, Ferramic Suppressor
L313	*108-0215-00			1.1 μH
L314[7]				
L320	*108-0215-00			1.1 μH
L325	276-0507-00			Core, Ferramic Suppressor
L333	*108-0215-00			1.1 μH
L343	*108-0215-00			1.1 μH
L348	*108-0304-00			45 nH
L358	*108-0372-00			27 nH
L384	*108-0374-00			55 nH
L385	*108-0374-00			55 nH
L444	*114-0207-00			180-220 nH, Var Core 276-0506-00
L446	*108-0215-00			1.1 μH
L450(3)	276-0507-00			Core, Ferramic Supressor
L456	276-0507-00			Core, Ferramic Suppressor
L466	276-0507-00			Core, Ferramic Suppressor
L508	108-0363-00			67 μH
L534	108-0226-00			100 μH
L602	*108-0415-00			1.5 μH
L605	*108-0415-00			1.5 μH
L608	*108-0415-00			1.5 μH
L611	*108-0415-00			1.5 μH
L998	*108-0317-00			15 μH
L1 035	*108-0321-00			Beam Rotator
L1054	108-0324-00			10 mH
L1 104	114-0178-00			1.3-3 mH, Var Core not replaceable
L1108	*114-0218-00			70-120 μH, Var Core 276-0506-00
L1124	*108-0215-00			1.1 μH
L11 96	276-0554-00			Core, Toroid Ferrite
LR413	*108-0368-00			10 μH (wound on a 1 kΩ, ½ W resistor)
LR423	*108-0367-00			1 μH (wound on a 1 kΩ, ¼ W resistor)
LR427	*108-0367-00			1 μH (wound on a 1 kΩ, ¼ W resistor)
LR433	*108-0367-00			1 μH (wound on a 1 kΩ, ¼ W resistor)
LR437	*108-0368-00			10 μH (wound on a 1 kΩ, ½ W resistor)
LR443	*108-0368-00			10 μH (wound on a 1 kΩ, ½ W resistor)
LR453	*108-0368-00			10 μH (wound on a 1 kΩ, ½ W resistor)
LR457	*108-0368-00			10 μH (wound on a 1 kΩ, ½ W resistor)
LR463	*108-0368-00			10 μH (wound on a 1 kΩ, ½ W resistor)
LR467	*108-0368-00			10 μH (wound on a 1 kΩ, ½ W resistor)

[7]Part of Sweeper Circuit Board.

Transistors

Ckt. No.	Tektronix Part No.	Serial/Model No. Eff	Disc		Description
Q54	151-0207-00			Silicon	2N3415
Q64	151-0207-00			Silicon	2N3415
Q120	151-0180-00	B010100	B039999	Silicon	40235 (RCA)
Q120	*151-0230-00	B040000		Silicon	Replacable by 40235 (RCA)
Q130	151-0180-00	B010100	B039999	Silicon	40235 (RCA)
Q130	*151-0230-00	B040000		Silicon	Replacable by 40235 (RCA)
Q140	151-0181-00			Silicon	40242 (RCA)
Q200	151-0188-00			Silicon	2N3906
Q220	*151-0192-00			Silicon	Replaceable by MPS 6521
Q230	151-0150-00			Silicon	2N3440
Q240	151-0157-00			Silicon	40232 (RCA)
Q260	*151-0104-00			Silicon	Replaceable by 2N2919
Q270	151-0157-00			Silicon	40232 (RCA)
Q280	*151-0192-00			Silicon	Replaceable by MPS 6521
Q290	*151-0192-00			Silicon	Replaceable by MPS 6521
Q310	151-0173-00			Silicon	2N3478
Q320	*151-0153-00			Silicon	Replaceable by 2N2923
Q340	151-0173-00			Silicon	2N3478
Q350	151-0173-00			Silicon	2N3478
Q420	151-0181-00			Silicon	40242 (RCA)
Q430	151-0181-00			Silicon	40242 (RCA)
Q440	151-0175-00			Silicon	2N3662
Q450	151-0175-00			Silicon	2N3662
Q460	151-0175-00			Silicon	2N3662
Q510	151-0181-00			Silicon	40242 (RCA)
Q520	151-0175-00			Silicon	2N3662
Q530	151-0175-00			Silicon	2N3662
Q620	151-0175-00			Silicon	2N3662
Q630	151-0175-00			Silicon	2N3662
Q631	*151-0199-00			Silicon	Replaceable by MPS 3640
Q640	151-0188-00			Silicon	2N3906
Q641	151-0190-00			Silicon	2N3904
Q660	*151-0192-00			Silicon	Replaceable by MPS 6521
Q670	*151-0192-00			Silicon	Replaceable by MPS 6521
Q680	151-0188-00			Silicon	2N3906
Q681	151-0150-00			Silicon	2N3440
Q682	151-0150-00			Silicon	2N3440
Q690	*151-0192-00			Silicon	Replaceable by MPS 6521
Q700	*151-0192-00			Silicon	Replaceable by MPS 6521
Q710	151-0188-00			Silicon	2N3906
Q720	*151-0192-00			Silicon	Replaceable by MPS 6521
Q730	*151-0192-00			Silicon	Replaceable by MPS 6521
Q731	*151-0192-00			Silicon	Replaceable by MPS 6521
Q740	151-0188-00			Silicon	2N3906
Q750	*151-0192-00			Silicon	Replaceable by MPS 6521
Q751	*151-0192-00			Silicon	Replaceable by MPS 6521
Q752	*151-0192-00			Silicon	Replaceable by MPS 6521

Transistors *(cont)*

Ckt. No.	Tektronix Part No.	Serial/Model No. Eff	Disc		Description
Q760	*151-0192-00			Silicon	Replaceable by MPS 6521
Q761	*151-0192-00			Silicon	Replaceable by MPS 6521
Q770	151-0188-00			Silicon	2N3906
Q771	151-0188-00			Silicon	2N3906
Q790	*151-0192-00			Silicon	Replaceable by MPS 6521
Q791	*151-0192-00			Silicon	Replaceable by MPS 6521
Q800	*151-0192-00			Silicon	Replaceable by MPS 6521
Q810	151-0150-00			Silicon	2N3440
Q820	151-0150-00			Silicon	2N3440
Q830	*151-0192-00			Silicon	Replaceable by MPS 6521
Q831	*151-0192-00			Silicon	Replaceable by MPS 6521
Q900	*151-0192-00			Silicon	Replaceable by MPS 6521
Q901	*151-0149-00			Silicon	Selected from 2N3441
Q910	151-0150-00			Silicon	2N3440
Q911	*151-0192-00			Silicon	Replaceable by MPS 6521
Q920	*151-0148-00			Silicon	Selected 40250 (RCA)
Q921	151-0207-00			Silicon	2N3415
Q922	151-0207-00			Silicon	2N3415
Q930	*151-0192-00			Silicon	Replaceable by MPS 6521
Q940	*151-0148-00			Silicon	Selected 40250 (RCA)
Q950	*151-0148-00			Silicon	Selected 40250 (RCA)
Q951	*151-0192-00			Silicon	Replaceable by MPS 6521
Q952	151-0188-00			Silicon	2N3906
Q960	*151-0192-00			Silicon	Replaceable by MPS 6521
Q961	*151-0192-00			Silicon	Replaceable by MPS 6521
Q1000	*151-0192-00			Silicon	Replaceable by MPS 6521
Q1001	151-0188-00			Silicon	2N3906
Q1002	*151-0136-00			Silicon	Replaceable by 2N3053
Q1003	*151-0140-00			Silicon	Selected from 2N3055
Q1050	*151-0192-00			Silicon	Replaceable by MPS 6521
Q1051	*151-0192-00			Silicon	Replaceable by MPS 6521
Q1070	151-0188-00			Silicon	2N3906
Q1080	151-0150-00			Silicon	2N3440
Q1081	151-0188-00			Silicon	2N3906
Q1100	*151-0108-00			Silicon	Replaceable by 2N2501
Q1110	*151-0192-00			Silicon	Replaceable by MPS 6521
Q1120	151-0181-00			Silicon	40242 (RCA)
Q1121	*153-0545-00			Silicon	Selected from 2N2501
Q1130	151-0150-00			Silicon	2N3440
Q1170	*151-0192-00			Silicon	Replaceable by MPS 6521
Q1180	*151-0192-00			Silicon	Replaceable by MPS 6521
Q1190	*151-0192-00			Silicon	Replaceable by MPS 6521

Resistors

Resistors are fixed, composition, ±10% unless otherwise indicated.

R10	315-0510-00	B010100	B119999	51 Ω	¼ W	5%
R10	317-0510-00	B120000		51 Ω	⅛ W	5%
R11	317-0510-00	XB120000		51 Ω	⅛ W	5%
R12	317-0510-00	XB120000		51 Ω	⅛ W	5%
R13	311-0643-00	XB120000		50 Ω, Var		

Resistors (cont)

Ckt. No.	Tektronix Part No.	Serial/Model No. Eff	Disc	Description		
R14	315-0470-00	B010100	B119999	47 Ω	Selected (nominal value)	
R14	317-0151-00	B120000		150 Ω	Selected (nominal value)	
R16	315-0330-00	B010100	B119999	33 Ω	Selected (nominal value)	
R16	317-0151-00	B120000		150 Ω	Selected (nominal value)	
R17	315-0200-00	B010100	B119999	20 Ω	1/4 W	5%
R17	317-0200-00	B120000		20 Ω	1/8 W	5%
R18	315-0101-00	B010100	B119999	100 Ω	1/4 W	5%
R18	317-0101-00	B120000		100 Ω	1/8 W	5%
R20	317-0240-00	XB120000		24 Ω	1/8 W	5%
R21	317-0510-00	XB120000		51 Ω	1/8 W	5%
R40	308-0319-00			4.5 kΩ	3 W WW	1 %
R41	308-0319-00			4.5 kΩ	3 W WW	1%
R42	301-0821-00			820 Ω	1/2 W	5%
R43	317-0201-00			200 Ω	1/8 W	5%
R45	308-0297-00			24.7 Ω	3 W WW	1%
R46	308-0297-00			24.7 Ω	3 W WW	1%
R51	315-0563-00			56 kΩ	1/4 W	5%
R55[8]	311-0662-00			10 kΩ, Var		
R66	315-0563-00			56 kΩ	1/4 W	5%
R123	315-0101-00			100 Ω	1/4 W	5%
R124	315-0471-00	XB040000		470 Ω	1/4 W	5%
R128	315-0332-00			3.3 kΩ	1/4 W	5%
R130	315-0221-00			220 Ω	1/4 W	5%
R133	315-0101-00			100 Ω	1/4 W	5%
R134	315-0131-00			130 Ω	1/4 W	5%
R137	315-0101-00	B010100	B039999	100 Ω	1/4 W	5%
R137	315-0330-00	B040000		33 Ω	Selected (nominal value)	
R138	315-0182-00			1.8 kΩ	1/4 W	5%
R140	315-0221-00			220 Ω	1/4 W	5%
R143	315-0101-00			100 Ω	1/4 W	5%
R148	315-0101-00			100 Ω	1/4 W	5%
R149	315-0472-00			4.7 kΩ	1/4 W	5%
R158	315-0620-00			62 Ω	1/4 W	5%
R159	315-0241-00			240 Ω	1/4 W	5%
R160	315-0620-00			62 Ω	1/4 W	5%
R163	315-0680-00			68 Ω	1/4 W	5%
R164	315-0151-00			150 Ω	1/4 W	5%
R165	315-0680-00			68 Ω	1/4 W	5%
R168	315-0121-00			120 Ω	1/4 W	5%
R169	315-0510-00			51 Ω	1/4 W	5%
R170	315-0121-00			120 Ω	1/4 W	5%
R173	315-0221-00			220 Ω	1/4 W	5%
R174	315-0240-00			24 Ω	1/4 W	5%
R175	315-0221-00			220 Ω	1/4 W	5%
R178	315-0431-00			430 Ω	1/4 W	5%
R179	315-0120-00			12 Ω	1/4 W	5%
R180	315-0431-00			430 Ω	1/4 W	5%

[8]Furnshed as a unit with SW55.

©

Ckt. No.	Tektronix Part No.	Serial/Model No. Eff	Disc	Description		
R183	315-0911-00			910 Ω	1/4 W	5%
R184	307-0107-00			5.6 Ω	1/4 W	5%
R185	315-0911-00			910 Ω	1/4 W	5%
R200	321-0256-00			4.53 kΩ	1/8 W Prec	1%
R201	323-0369-00			68.1 kΩ	1/2 W Prec	1%
R203	311-0633-00			5 kΩ, Var		
R204	315-0752-00			7.5 kΩ	1/4 W	5%
R206	321-0296-00			11.8 kΩ	1/8 W Prec	1%
R208	311-0614-00			30 kΩ, Var		
R209	321-0238-00			2.94 kΩ	1/8 W Prec	1%
R210A	321-0231-00			2.49 kΩ	1/8 W Prec	1%
R210B	321-0164-00			499 Ω	1/8 W Prec	1%
R210C	321-0193-00			1 kΩ	1/8 W Prec	1%
R210D	321-0164-00			499 Ω	1/8 W Prec	1%
R210E	321-0135-00			249 Ω	1/8 W Prec	1%
R210F	321-0068-00			49.9 Ω	1/8 W Prec	1%
R210G	321-0097-00			100 Ω	1/8 W Prec	1%
R210H	321-0068-00			49.9 Ω	1/8 W Prec	1%
R210I	321-0047-00			30.1 Ω	1/8 W Prec	1%
R210J	321-0001-00			10 Ω	1/8 W Prec	1%
R210K	321-0001-00			10 Ω	1/8 W Prec	1%
R222	321-0143-00			301 Ω	1/8 W Prec	1%
R224	315-0101-00			100 Ω	1/4 W	5%
R225	315-0102-00			1 kΩ	1/4 W	5%
R226	321-0226-00			2.21 kΩ	1/8 W Prec	1%
R227	321-0254-00			4.32 kΩ	1/8 W Prec	1%
R228	322-0382-00			93.1 kΩ	1/4 W Prec	1%
R229	315-0101-00			100 Ω	1/4 W	5%
R232	321-0278-00			7.68 kΩ	1/8 W Prec	1%
R233	321-0431-00			301 kΩ	1/8 W Prec	1%
R234	311-0614-00			30 kΩ, Var		
R236	321-0347-00			40.2 kΩ	1/8 W Prec	1%
R237	321-0368-00			66.5 kΩ	1/8 W Prec	1%
R240	321-0205-00			1.33 kΩ	1/8 W Prec	1%
R242	321-0233-00			2.61 kΩ	1/8 W Prec	1%
R250	311-0633-00			5 kΩ, Var		
R251	311-0644-00			20 kΩ, Var		
R252	323-0348-00			41.2 kΩ	1/2 W Prec	1%
R254	321-0385-00			100 kΩ	1/8 W Prec	1%
R255	321-0164-00			499 Ω	1/8 W Prec	1%
R256	311-0590-00			2 kΩ, Var		
R258	322-0481-00			1 MΩ	1/4 W Prec	1%
R259	311-0580-00			50 kΩ, Var		
R260	321-0423-00			249 kΩ	1/8 W Prec	1%
R261	321-0143-00			301 Ω	1/8 W Prec	1%

Resistors *(cont)*

Ckt. No.	Tektronix Part No.	Serial/Model No. Eff	Disc	Description			
R263	321-0143-00			301 Ω	1/8 W	Prec	1%
R264	321-0423-00			249 kΩ	1/8 W	Prec	1%
R266	321-0135-00			249 Ω	1/8 W	Prec	1%
R267	321-0135-00			249 Ω	1/8 W	Prec	1%
R272	321-0222-00			2 kΩ	1/8 W	Prec	1%
R274	321-0205-00			1.33 kΩ	1/8 W	Prec	1%
R277	315-0272-00			2.7 kΩ	1/4 W		5%
R279	315-0274-00			270 kΩ	1/4 W		5%
R280	321-0423-00			249 kΩ	1/8 W	Prec	1%
R282	315-0101-00			100 Ω	1/4 W		5%
R283	321-0097-00			100 Ω	1/8 W	Prec	1%
R286	315-0512-00			5.1 kΩ	1/4 W		5%
R290	311-0609-00			2 kΩ, Var			
R291	321-0280-00			8.06 kΩ	1/8 W	Prec	1%
R293	315-0510-00			51 Ω	1/4 W		5%
R294	315-0562-00			5.6 kΩ	1/4 W		5%
R295	315-0202-00			2 kΩ	1/4 W		5%
R296	315-0102-00			1 kΩ	1/4 W		5%
R300	315-0102-00			1 kΩ	1/4 W		5%
R310	315-0562-00			5.6 kΩ	1/4 W		5%
R311	315-0392-00			3.9 kΩ	1/4 W		5%
R316	315-0221-00			220 Ω	1/4 W		5%
R333	321-0233-00			2.61 kΩ	1/8 W	Prec	1%
R334	315-0431-00			430 Ω	1/4 W		5%
R346	315-0680-00			68 Ω	1/4 W		5%
R356	315-0680-00			68 Ω	1/4 W		5%
R361	321-0395-00			127 kΩ	1/8 W	Prec	1%
R363	315-0221-00			220 Ω	1/4 W		5%
R365	315-0102-00			1 kΩ	1/4 W		5%
R368	311-0633-00			5 kΩ, Var			
R373	315-0510-00			51 Ω	1/4 W		5%
R376	315-0510-00			51 Ω	1/4 W		5%
R383	315-0681-00			680 Ω	1/4 W		5%
R384	321-0097-00			100 Ω	1/8 W	Prec	1%
R385	321-0097-00			100 Ω	1/8 W	Prec	1%
R401	315-0680-00			68 Ω	1/4 W		5%
R410	315-0393-00			39 kΩ		Selected (nominal value)	
R411A	311-0310-00			5 kΩ, Var			
R414	315-0512-00			5.1 kΩ	1/4 W		5%
R416	315-0102-00			1 kΩ	1/4 W		5%
R426	315-0102-00			1 kΩ	1/4 W		5%
R436	315-0102-00			1 kΩ	1/4 W		5%
R448	315-0472-00			4.7 kΩ	1/4 W		5%
R454	315-0103-00			10 kΩ	1/4 W		5%
R456	315-0472-00			4.7 kΩ	1/4 W		5%

Ckt. No.	Tektronix Part No.	Serial/Model No. Eff	Disc	Description			
R464	315-0103-00			10 kΩ	1/4 W		5%
R466	315-0472-00			4.7 kΩ	1/4 W		5%
R501	317-0151-00			150 Ω	1/10 W		5%
R502	317-0151-00			150 Ω	1/10 W		5%
R514	315-0470-00			47 Ω	1/4 W		5%
R516	315-0242-00			2.4 kΩ	1/4 W		5%
R517	315-0242-00			2.4 kΩ	1/4 W		5%
R524	315-0470-00			47 Ω	1/4 W		5%
R525	315-0202-00			2 kΩ	1/4 W		5%
R530	315-0301-00			300 Ω	1/4 W		5%
R531	315-0203-00			20 kΩ	1/4 W		5%
R532	315-0562-00			5.6 kΩ	1/4 W		5%
R534	315-0102-00			1 kΩ	1/4 W		5%
R537	315-0101-00			100 Ω	1/4 W		5%
R539	315-0102-00			1 kΩ	1/4 W		5%
R540	323-0365-00			61.9 kΩ	1/2 W	Prec	1%
R541	315-0204-00			200 kΩ	1/4 W		5%
R543	311-0607-00			10 kΩ, Var			
R550	315-0221-00			220 Ω	1/4 W		5%
R551	315-0161-00			160 Ω	1/4 W		5%
R552	315-0111-00			110 Ω	1/4 W		5%
R553	315-0151-00			150 Ω	1/4 W		5%
R554	315-0331-00			330 Ω	1/4 W		5%
R555	315-0511-00			510 Ω	1/4 W		5%
R556	315-0561-00			560 Ω	1/4 W		5%
R557	315-0154-00			150 kΩ	1/4 W		5%
R558	315-0624-00			620 kΩ	1/4 W		5%
R559	315-0624-00			620 kΩ	1/4 W		5%
R600	315-0471-00			470 Ω	1/4 W		5%
R612	315-0681-00			680 Ω	1/4 W		5%
R617	315-0302-00			3 kΩ	1/4 W		5%
R620	315-0471-00			470 Ω	1/4 W		5%
R622	315-0100-00			10 Ω	1/4 W		5%
R623	315-0182-00			1.8 kΩ	1/4 W		5%
R625	315-0102-00			1 kΩ	1/4 W		5%
R626	315-0103-00			10 kΩ	1/4 W		5%
R627	315-0472-00			4.7 kΩ	1/4 W		5%
R628	315-0103-00			10 kΩ	1/4 W		5%
R630	315-0100-00			10 Ω	1/4 W		5%
R631	315-0100-00			10 Ω	1/4 W		5%
R633	315-0471-00			470 Ω	1/4 W		5%
R635	315-0100-00			10 Ω	1/4 W		5%
R636	315-0100-00			10 Ω	1/4 W		5%
R642	315-0104-00			100 kΩ	1/4 W		5%
R644	315-0105-00			1 MΩ	1/4 W		5%

Resistors *(cont)*

Ckt. No.	Tektronix Part No.	Serial/Model No. Eff	Disc	Description			
R646	308-0413-00			16 kΩ	3 W	WW	1%
R650	315-0683-00			68 kΩ	¼ W		5%
R651	315-0273-00			27 kΩ	¼ W		5%
R653	315-0102-00			1 kΩ	¼ W		5%
R655[9]	315-0104-00			100 kΩ	¼ W		5%
R657	315-0103-00			10 kΩ	¼ W		5%
R658	315-0622-00			6.2 kΩ	¼ W		5%
R659	315-0621-00			620 Ω	¼ W		5%
R660	315-0103-00			10 kΩ	¼ W		5%
R663	321-0391-00	B010100	B099999	115 kΩ	⅛ W	Prec	1%
R663	321-0387-00	B100000		105 kΩ	⅛ W	Prec	1%
R664	321-0369-00			68.1 kΩ	⅛ W	Prec	1%
R665	311-0642-00			20 kΩ, Var			
R666	315-0334-00			330 kΩ	¼ W		5%
R667	315-0474-00			470 kΩ	¼ W		5%
R668[9]	321-0385-00			100 kΩ	⅛ W	Prec	1%
R669	323-0495-00			1.4 MΩ	½ W	Prec	1%
R671	321-0444-00			412 kΩ	⅛ W	Prec	1%
R672	311-0660-00			200 kΩ, Var			
R674	301-0623-00			62 kΩ	½ W		5%
R675	315-0102-00			1 kΩ	¼ W		5%
R677	321-0289-00			10 kΩ	⅛ W	Prec	1%
R680	315-0100-00			10 Ω	¼ W		5%
R682	315-0332-00			3.3 kΩ	¼ W		5%
R684	315-0474-00			470 kΩ	¼ W		5%
R685	*310-0632-00			30 kΩ	4 W	WW	1%
R686	321-0193-00			1 kΩ	⅛ W	Prec	1%
R687	321-0193-00			1 kΩ	⅛ W	Prec	1%
R689	*310-0632-00			30 kΩ	4 W	WW	1%
R692	321-0247-00			3.65 kΩ	⅛ W	Prec	1%
R693	321-0193-00			1 kΩ	⅛ W	Prec	1%
R695	321-0155-00			402 Ω	⅛ W	Prec	1%
R696	315-0100-00			10 Ω	¼ W		5%
R700	315-0104-00			100 kΩ	¼ W		5%
R701	321-0385-00			100 kΩ	⅛ W	Prec	1%
R702[9]	311-0640-00			20 kΩ, Var			
R703	315-0102-00			1 kΩ	¼ W		5%
R704	321-0385-00			100 kΩ	⅛ W	Prec	1%
R705	321-0289-00			10 kΩ	⅛ W	Prec	1%
R707	323-0399-00			140 kΩ	½ W	Prec	1%
R709	321-0289-00	B010100	B099999	10 kΩ	⅛ W	Prec	1%
R709	321-0288-00	B100000		9.76 kΩ	⅛ W	Prec	1%
R712	315-0100-00			10 Ω	¼ W		5%
R714	315-0103-00			10 kΩ	¼ W		5%
R715	315-0101-00			100 Ω	¼ W		5%
R717	315-0101-00			100 Ω	¼ W		5%
R718	315-0101-00			100 Ω	¼ W		5%

[9]Furnished as a unit with SW702.

Resistors *(cont)*

Ckt. No.	Tektronix Part No.	Serial/Model No. Eff	Disc	Description			
R720	315-0104-00			100 Ω	1/4 W		5%
R721	315-0332-00			3.3 kΩ	1/4 W		5%
R722	315-0101-00			100 Ω	1/4 W		5%
R724	311-0613-00			100 kΩ, Var			
R725	315-0304-00	B010100	B099999	300 kΩ	1/4 W		5%
R725	315-0204-00	B100000		200 kΩ	1/4 W		5%
R730	315-0101-00			100 Ω	1/4 W		5%
R732	321-0231-00			2.49 kΩ	1/8 W	Prec	1 %
R733	315-0101-00			100 Ω	1/4 W		5%
R735	315-0101-00			100 Ω	1/4 W		5%
R736	315-0154-00			150 kΩ	1/4 W		5%
R737	315-0101-00			100 Ω	1/4 W		5%
R739	315-0100-00			10 Ω	1/4 W		5%
R741	315-0224-00			220 kΩ	1/4 W		5%
R743	321-0222-00			2 kΩ	1/8 W	Prec	1%
R744	321-0222-00			2 kΩ	1/8 W	Prec	1%
R745	321-0280-00			8.06 kΩ	1/8 W	Prec	1%
R750	321-0209-00			1.47 kΩ	1/8 W	Prec	1%
R752	321-0222-00			2 kΩ	1/8 W	Prec	1%
R753	315-0100-00			10 Ω	1/4 W		5%
R755	321-0289-00			10 kΩ	1/8 W	Prec	1%
R756	315-0101-00			100 Ω	1/4 W		5%
R757	321-0280-00			8.06 kΩ	1/8 W	Prec	1%
R758	321-0299-00			12.7 kΩ	1/8 W	Prec	1%
R759	311-0633-00			5 kΩ, Var			
R761	315-0472-00			4.7 kΩ	1/4 W		5%
R762	315-0101-00			100 Ω	1/4 W		5%
R763	315-0102-00			1 kΩ	1/4 W		5%
R765	315-0103-00			10 kΩ	1/4 W		5%
R768	315-0332-00			3.3 kΩ	1/4 W		5%
R770	315-0104-00			100 kΩ	1/4 W		5%
R771	315-0103-00			10 kΩ	1/4 W		5%
R773	321-0213-00			1.62 kΩ	1/8 W	Prec	1%
R775	321-0239-00			3.01 kΩ	1/8 W	Prec	1%
R777	321-0210-00			1.5 kΩ	1/8 W	Prec	1%
R778	315-0332-00			3.3 kΩ	1/4 W		5%
R779	315-0101-00			100 Ω	1/4 W		5%
R781	321-0207-00			1.4 kΩ	1/8 W	Prec	1%
R782	321-0239-00			3.01 kΩ	1/8 W	Prec	1%
R784	315-0103-00			10 kΩ	1/4 W		5%
R785A	323-0463-06			649 kΩ	1/2 W	Prec	1/4%
R785B	323-0425-06			261 kΩ	1/2 W	Prec	1/4%
R785C	323-0396-06			130 kΩ	1/2 W	Prec	1/4%
R786[11]	311-0182-00			200 kΩ, Var			
R787	311-0607-00			10 kΩ, Var			
R788	315-0101-00			100 Ω	1/4 W		5%

[11]Furnished as a unit with SW786.

Ckt. No.	Tektronix Part No.	Serial/Model No. Eff	Disc	Description			
R789	315-0101-00			100 Ω	1/4 W		5%
R790	315-0623-00			62 kΩ	1/4 W		5%
R791	315-0621-00			620 Ω	1/4 W		5%
R793	315-0101-00			100 Ω	1/4 W		5%
R794	315-0101-00			100 Ω	1/4 W		5%
R795	315-0101-00			100 Ω	1/4 W		5%
R797	321-0452-00			499 kΩ	1/8 W	Prec	1%
R799	315-0472-00			4.7 kΩ	1/4 W		5%
R802	315-0100-00			10 Ω	1/4 W		5%
R803	315-0100-00			10 Ω	1/4 W		5%
R805	323-0402-00			150 kΩ	1/2 W	Prec	1%
R807	315-0101-00			100 Ω	1/4 W		5%
R809	322-0210-00			1.5 kΩ	1/4 W	Prec	1%
R811	*31 0-0632-00			30 kΩ	3 W	WW	1%
R812	321-0210-00			1.5 kΩ	1/8 W	Prec	1%
R813	311-0609-00			2 kΩ, Var			
R821	*31 0-0632-00			30 kΩ	3 W	WW	1%
R823	311-0642-00			20 kΩ, Var			
R824	315-0682-00	B010100	B010111	6.8 kΩ	1/4 W		5%
R824	315-0472-00	B010112		4.7 kΩ	1/4 W		5%
R825	315-0822-00	B010100	B010111	8.2 kΩ	1/4 W		5%
R825	315-0682-00	B010112		6.8 kΩ	1/4 W		5%
R826	315-0133-00			13 kΩ	1/4 W		5%
R830	321-0222-00			2 kΩ	1/8 W	Prec	1%
R831	321-0222-00			2 kΩ	1/8 W	Prec	1%
R833	315-0100-00			10 Ω	1/4 W		5%
R836	321-0222-00			2 kΩ	1/8 W	Prec	1%
R838	321-0222-00			2 kΩ	1/8 W	Prec	1%
R901	301-0910-00			91 Ω	1/2 W		5%
R903	315-0103-00			10 kΩ	1/4 W		5%
R904	308-0229-00			4 kΩ	5 W	WW	5%
R905	308-0275-00			200 Ω	5 W	WW	5%
R906	321-0452-00			499 kΩ	1/8 W	Prec	1%
R908	315-0224-00			220 kΩ	1/4 W		5%
R910	315-0102-00			1 kΩ	1/4 W		5%
R912	315-0103-00			10 kΩ	1/4 W		5%
R914	321-0431-00			301 kΩ	1/8 W	Prec	1%
R915	321-0318-00			20 kΩ	1/8 W	Prec	1%
R924	315-0751-00			750 Ω	1/4 W		5%
R925	315-0122-00			1.2 kΩ	1/4 W		5%
R928	315-0103-00			10 kΩ	1/4 W		5%
R930	321-0402-00			150 kΩ	1/8 W	Prec	1%
R932	315-0562-00			5.6 kΩ	1/4 W		5%
R934	321-0289-00			10 kΩ	1/8 W	Prec	1%
R935	321-0289-00			10 kΩ	1/8 W	Prec	1%
R940	311-0642-00			20 kΩ, Var			
R941	315-0131-00			130 Ω	1/4 W		5%
R942	315-0432-00			4.3 kΩ	1/4 W		5%

Ckt. No.	Tektronix Part No.	Serial/Model No. Eff	Disc	Description			
R954	321-0213-00			1.62 kΩ	1/8 W	Prec	1%
R956	315-0222-00			2.2 kΩ	1/4 W		5%
R958	315-0332-00			3.3 kΩ	1/4 W		5%
R960	315-0123-00			12 kΩ	1/4 W		5%
R962	315-0101-00			100 Ω	1/4 W		5%
R964	321-0209-00			1.47 kΩ	1/8 W	Prec	1%
R966	315-0302-00			3 kΩ	1/4 W		5%
R967	321-0143-00			301 Ω	1/8 W	Prec	1%
R968	311-0609-00			2 kΩ, Var			
R969	321-0283-00			8.66 kΩ	1/8 W	Prec	1%
R972	315-0101-00			100 Ω	1/4 W		5%
R974	307-0103-00			2.7 Ω	1/4 W		5%
R976	315-0100-00			10 Ω	1/4 W		5%
R982	315-0101-00			100 Ω	1/4 W		5%
R984	315-0100-00			10 Ω	1/4 W		5%
R990	315-0101-00			100 Ω	1/4 W		5%
R992	315-0100-00			10 Ω	1/4 W		5%
R1000	311-0606-00			500 kΩ, Var			
R1001	315-0105-00			1 MΩ	1/4 W		5%
R1002	315-0103-00			10 kΩ	1/4 W		5%
R1004	315-0102-00			1 kΩ	1/4 W		5%
R1006	315-0101-00			100 Ω	1/4 W		5%
R1007	315-0104-00			100 kΩ	1/4 W		5%
R1009	315-0302-00			3 kΩ	1/4 W		5%
R1010	315-0103-00			10 kΩ	1/4 W		5%
R1012	315-0102-00			1 kΩ	1/4 W		5%
R1014	301-0103-00			10 kΩ	1/2 W		5%
R1021	303-0305-00			3 MΩ	1 W		5%
R1022	303-0305-00			3 MΩ	1 W		5%
R1023	303-0305-00			3 MΩ	1 W		5%
R1024	303-0305-00			3 MΩ	1 W		5%
R1025	303-0305-00			3 MΩ	1 W		5%
R1026	303-0305-00	B010100	B129999	3 MΩ	1 W		5%
R1026	303-0275-00	B130000		2.7 MΩ	1 W		5%
R1027	303-0305-00	B010100	B129999	3 MΩ	1 W		5%
R1027	303-0275-00	B130000		2.7 MΩ	1 W		5%
R1028	311-0647-00			5 MΩ, Var			
R1029	303-0685-00	B010100	B129999	6.8 MΩ	1 W		5%
R1029	303-0106-00	B130000		10 MΩ	1 W		5%
R1030	303-0335-00	B010100	B129999	3.3 MΩ	1 W		5%
R1030	303-0365-00	B130000		3.6 MΩ	1 W		5%
R1032	311-0646-00			1 MΩ, Var			
R1033	311-0646-00			1 MΩ, Var			
R1035	311-0310-00			5 kΩ, Var			
R1038	311-0641-00			200 kΩ, Var			
R1040	323-0342-00			35.7 kΩ	1/2 W	Prec	1%
R1042	323-0347-00			40.2 kΩ	1/2 W	Prec	1%
R1050	315-0154-00			150 kΩ	1/4 W		5%
R1051	315-0104-00			100 kΩ	1/4 W		5%

Ckt. No.	Tektronix Part No.	Serial/Model No. Eff	Disc	Description		
R1053	315-0102-00			1 kΩ	1/4 W	5%
R1055	315-0471-00			470 Ω	1/4 W	5%
R1057	321-0239-00			3.01 kΩ	1/8 W Prec	1%
R1059	315-0101-00			100 Ω	1/4 W	5%
R1062	321-0320-00			21 kΩ	1/8 W Prec	1%
R1063	311-0310-00			5 kΩ, Var		
R1065	321-0097-00			100 Ω	1/8 W Prec	1%
R1068	321-0250-00			3.92 kΩ	1/8 W Prec	1%
R1070	315-0332-00			3.3 kΩ	1/4 W	5%
R1071	315-0100-00			10 Ω	1/4 W	5%
R1073	321-0356-00			49.9 kΩ	1/8 W Prec	1%
R1075	311-0614-00			30 kΩ, Var		
R1080	315-0100-00			10 Ω	1/4 W	5%
R1081	308-0429-00			22 kΩ	3 W WW	1%
R1082	321-0385-00			100 kΩ	1/8 W Prec	1%
R1084	315-0103-00			10 kΩ	1/4 W	5%
R1086	315-0101-00			100 Ω	1/4 W	5%
R1090	321-0318-00			20 kΩ	1/8 W Prec	1%
R1094	321-0298-00			12.4 kΩ	1/8 W Prec	1%
R1100	315-0562-00			5.6 kΩ	1/4 W	5%
R1101	315-0472-00			4.7 kΩ	1/4 W	5%
R1103	315-0102-00			1 kΩ	1/4 W	5%
R1104	315-0104-00			100 kΩ	1/4 W	5%
R1105	315-0913-00			91 kΩ	1/4 W	5%
R1106[11]	311-0645-00			50 kΩ, Var		
R1109	315-0101-00			100 Ω	1/4 W	5%
R1111	315-0103-00			10 kΩ	1/4 W	5%
R1112	315-0104-00			100 kΩ	1/4 W	5%
R1114	315-0100-00			10 Ω	1/4 W	5%
R1116	315-0473-00			47 kΩ	1/4 W	5%
R1117	315-0102-00			1 kΩ	1/4 W	5%
R1118	315-0122-00			1.2 kΩ	1/4 W	5%
R1121	315-0510-00			51 Ω	1/4 W	5%
R1122	315-0101-00			100 Ω	1/4 W	5%
R1123	315-0332-00			3.3 kΩ	1/4 W	5%
R1124	315-0162-00			1.6 kΩ	1/4 W	5%
R1126	315-0163-00			16 kΩ	1/4 W	5%
R1128	315-0101-00			100 Ω	1/4 W	5%
R1129	317-0510-00			51 Ω	1/8 W	5%
R1130	315-0473-00			47 kΩ	1/4 W	5%
R1131	311-0607-00			10 kΩ, Var		
R1132	315-0333-00			33 kΩ	1/4 W	5%
R1133	308-0293-00			4 kΩ	3 W WW	5%
R1134	315-0510-00			51 Ω	1/4 W	5%
R1135	*308-0277-00			500 Ω	WW	5%

[11]Furnished as a unit with SW1106.

Ckt. No.	Tektronix Part No.	Serial/Model No. Eff	Disc	Description			
R1136	*308-0277-00			500 Ω		WW	5%
R1137	315-0100-00			10 Ω	1/4 W		5%
R1138	315-0510-00			51 Ω	1/4 W		5%
R1140	311-0635-00			1 kΩ, Var			
R1141	315-0912-00			9.1 kΩ	1/4 W		5%
R1142	321-0306-00			15 kΩ	1/8 W	Prec	1%
R1143	321-0251-00			4.02 kΩ	1/8 W	Prec	1%
R1144	321-0251-00			4.02 kΩ	1/8 W	Prec	1%
R1145	321-0308-00			15.8 kΩ	1/8 W	Prec	1%
R1147	317-0100-00			10 Ω	1/8 W		5%
R1148	317-0101-00			100 Ω	1/10 W		5%
R1149	317-0101-00			100 Ω	1/10 W		5%
R1150	311-0635-00			1 kΩ, Var			
R1151	315-0912-00			9.1 kΩ	1/4 W		5%
R1152	321-0340-00			34 kΩ	1/8 W	Prec	1%
R1153	321-0251-00			4.02 kΩ	1/8 W	Prec	1%
R1154	321-0251-00			4.02 kΩ	1/8 W	Prec	1%
R1155	321-0339-00			33.2 kΩ	1/8 W	Prec	1%
R1159	317-0510-00			51 Ω	1/8 W		5%
R1162	321-0340-00			34 kΩ	1/8 W	Prec	1%
R1163	321-0251-00			4.02 kΩ	1/8 W	Prec	1%
R1164	321-0251-00			4.02 kΩ	1/8 W	Prec	1%
R1165	321-0339-00			33.2 kΩ	1/8 W	Prec	1%
R1169	317-0510-00			51 Ω	1/8 W		5%
R1170	321-0385-00			100 kΩ	1/8 W	Prec	1%
R1172	315-0125-00			1.2 MΩ	1/4 W		5%
R1173	317-0122-00			1.2 kΩ	1/8 W		5%
R1174	315-0155-00			1.5 MΩ	1/4 W		5%
R1175	317-0122-00			1.2 kΩ	1/8 W		5%
R1177	321-0277-00			7.5 kΩ	1/8 W	Prec	1%
R1178	322-0402-00			150 kΩ	1/4 W	Prec	1%
R1180	315-0103-00			10 kΩ	1/4 W		5%
R1181	315-0101-00			100 Ω	1/4 W		5%
R1182	311-0668-00			2 kΩ, Var			
R1183	315-0101-00			100 Ω	1/4 W		5%
R1184	315-0103-00			10 kΩ	1/4 W		5%
R1186	322-0402-00			150 kΩ	1/4 W	Prec	1%
R1187	315-0471-00			470 Ω	1/4 W		5%
R1189	315-0472-00			4.7 kΩ	1/4 W		5%
R1190	315-0203-00			20 kΩ	1/4 W		5%
R1191	315-0204-00			200 kΩ	1/4 W		5%
R1192	315-0104-00			100 kΩ	1/4 W		5%
R1193	315-0103-00			10 kΩ	1/4 W		5%
R1195	315-0682-00			6.8 kΩ	1/4 W		5%
R1196	315-0302-00			3 kΩ	1/4 W		5%

Resistors *(cont)*

Ckt. No.	Tektronix Part No.	Serial/Model No. Eff	Disc	Description		
R1197	315-0124-00			120 kΩ	¼ W	5%
R1198	315-0302-00			3 kΩ	¼ W	5%
R1199	315-0205-00			2 MΩ	¼ W	5%
				1 dB Pad		
R50	119-0091-00			Resistive "T" Network (includes J50, J51, J52)		
R60	119-0066-00			Attenuator Pad		
				Switches		
	Wired or Unwired					
SW70	260-0821-00			Lever	BAND	
SW55[12]	311-0662-00					
SW159	260-0642-00			Toggle	IF ATTEN 20 dB	
SW164	260-0642-00			Toggle	IF ATTEN 16 dB	
SW169	260-0642-00			Toggle	IF ATTEN 8 dB	
SW174	260-0642-00			Toggle	IF ATTEN 4 dB	
SW179	260-0642-00			Toggle	IF ATTEN 2 dB	
SW184	260-0642-00			Toggle	IF ATTEN 1 dB	
SW210	260-0866-00			Rotary	DISPERSION RANGE	
SW250[13]	Wired *262-0788-00			Rotary	DISPERSION	
SW250[13]	260-0759-01			Rotary	DISPERSION	
SW365	260-0643-00			Toggle		
SW550[13]				Rotary	COUPLED RESOLUTION	
SW600	260-0820-00			Lever	VERTICAL DISPLAY	
SW610	260-0643-00			Toggle		
SW700	260-0665-00			Lever	SOURCE	
SW702[14]	311-0640-00					
SW720	260-0664-00			Lever	SLOPE	
SW785	Wired *262-0787-00			Rotary	TIME/DIV	
SW785	260-0819-00			Rotary	TIME/DIV	
SW786[15]	311-0182-00					
SW900	260-0834-00			Toggle	POWER	
SW902[16]						
SW903[16]						
SW1106[17]	311-0645-00					
SW1190	260-0689-00			Push	LOCK CHECK	
				Thermal Cut-Out		
TK902	260-0677-00			Opens 158° ±5°, closes 128° ±10°		

[12]Furnished as a unit with R55.

[13]SW250 and SW550 furnished as a unit.

[14]Furnished as a unit with R702.

[15] Furnished as a unit with R786.

[16]See Mechanical Parts List. Line Voltage Selector Body.

[17] Furnished as a unit with R1106.

Transformers

Ckt. No.	Tektronix Part No.	Serial/Model No. Eff	Disc	Description
T14	*120-0340-00			5 turns, bifilar
T120	*120-0428-00			4 turns, bifilar
T124	*120-0325-00			5 turns, bifilar
T134	*120-0325-00			5 turns, bifilar
T148	*120-0325-00			5 turns, bifilar
T330	*120-0340-00			5 turns, bifilar
T331	*120-0340-00			5 turns, bifilar
T343	*120-0340-00			5 turns, bifilar
T347	*120-0340-00			5 turns, bifilar
T354	*120-0340-00			5 turns, bifilar
T363	*120-0340-00			5 turns, bifilar
T424	*120-0425-00			4 turns, primary
T434	*120-0426-00			2 windings
T454	*120-0356-00			3.5 MHz I.F.
T464	*120-0356-00			3.5 MHz I.F.
T640	*120-0179-00			8 turns, quintifilar
T900	*120-0455-00			L.V. Power
T1010	*120-0456-00			H.V. Power
T1128	*120-0194-00	B010100	B089999	4 turns, trifilar
T1128	*120-0194-01	B090000		4 turns, trifilar
T1140, T1150, T1160	Part of Circuit Board (*670-0504-00)			

Electron Tubes

V40	154-0506-00			1641
V41	154-0506-00			1641
V42	*154-0510-00			Tek Spec
V1030	*154-0502-00			T491 0-7-1 CRT Standard Phosphor

Cable Assemblies

W1	*175-0419-00			8½ inch
W14	*175-0416-00			11¼ inch
W19	*175-0411-00			6¼ inch
W34	*175-0410-00			5¾ inch
W40	*175-0414-00			9½ inch
W41	*175-0409-00			5½ inch
W42	*175-0414-00			9½ inch
W45	*175-0312-00	B010100	B069999	9 inch
W45	*175-0473-00	B070000		9 inch
W50	*175-0409-00	B010100	B010111	5½ inch
W50	*175-0411-00	B010112		6¼ inch
W66	*175-0417-00	B010100	B089999	12 inch
W66	*175-0364-00	B090000		12¼ inch
W72	*175-0415-00	B010100	B089999	10¼ inch
W72	*175-0312-00	B090000		9 inch
W73	*175-0412-00	B010100	B089999	7¼ inch
W73	*175-0310-00	B090000		7¼ inch
W75	*175-0408-00			4¾ inch
W94	*175-0413-00			8¼ inch
W110	*175-0308-00			3¼ inch

Cable Assemblies *(cont)*

Ckt. No.	Tektronix Part No.	Serial/Model No. Eff	Disc	Description
W150	*175-0313-00			$4\frac{1}{4}$ inch
W200	*175-0358-00			$2\frac{13}{16}$ inch
W300	*175-0358-00	B010100	B059999	$2\frac{13}{16}$ inch
W300	*175-0413-00	B060000		$8\frac{1}{4}$ inch
W370[18]				
W375[18]				
W500	*175-0358-00			$2\frac{13}{16}$ inch
W1100	*175-0418-00			$6\frac{5}{8}$ inch
W1102	*175-0418-00			$6\frac{5}{8}$ inch
W1104	* 75-0418-00			$6\frac{5}{8}$ inch
		Crystals		
Y440	58-0024-00			70 MHz
Y501	58-0019-00			5 MHz
Y1104	58-0025-00			1 MHz
		Diplexer		
	119-0100-00			Multiplexer, IF dual hybrid (includes J45, J46, J47)
		Mixers		
	*610-0169-00	B010100	B119999	10-275 MHz Mixer Band A (includes D14 and D16)
	*610-0169-02	B120000		10-275 MHz Mixer Band A (includes D14 and D16)
	*119-0064-00			275-4200 MHz Mixer Band B (includes D64 and J69)
	*119-0096-00			Mixer, Coaxial (includes D74)
	*119-0097-00			Mixer, Crystal Waveguide (includes D82)
	*119-0098-00			Mixer, Crystal Waveguide (includes D84)
	*119-0099-00			Mixer, Crystal Waveguide (includes D86)
		Oscillator		
	*119-0106-00			Oscillator, (includes V40, V41, V42, SW70, J40A, J40B, J41 A, J41 B, J42A, J42B, J71 , J72, J73, J75)

[18] Selected. See Mechanica l Parts List.

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FIGURE AND INDEX NUMBERS

Items in this section are referenced by figure and index numbers to the illustrations which appear on the pullout pages immediately following the Diagrams section of this instruction manual.

INDENTATION SYSTEM

This mechanical parts list is indented to indicate item relationships. Following is an example of the indentation system used in the Description column.

Assembly and/or Component
Detail Part of Assembly and/or Component
mounting hardware for Detail Part
Parts of Detail Part
mounting hardware for Parts of Detail Part
mounting hardware for Assembly and/or Component

Mounting hardware always appears in the same indentation as the item it mounts, while the detail parts are indented to the right. Indented items are part of, and included with, the next higher indentation.

Mounting hardware must be purchased separately, unless otherwise specified.

ABBREVIATIONS AND SYMBOLS

For an explanation of the abbreviations and symbols used in this section, please refer to the page immediately preceding the Electrical Parts List in this instruction manual.

INDEX OR MECHANICAL PARTS LIST ILLUSTRATIONS

(Located behind diagrams)

FIG. 1 FRONT

FIG. 2 REAR

FIG. 3 IF CHASSIS & PHASE LOCK ASSEMBLIES

FIG. 4 POWER CHASSIS

FIG. 5 TIME/DIV SWITCH & OSCILLATOR ASSEMBLIES

FIG. 6 CRT SHIELD ASSEMBLY

FIG. 7 CABINET ASSEMBLY & HANDLE

FIG. 8 491 ACCESSORIES

SECTION 8

MECHANICAL PARTS LIST

FIG. 1 FRONT

Fig. & Index No.	Tektronix Part No.	Serial/Model No. Eff	Serial/Model No. Disc	Qty	1 2 3 4 5	Description
1-1	366-0392-00			1		KNOB, charcoal—INTENSITY
	- - - - - -			-		knob includes:
	214-0949-00			1		SPRING
-2	366-0392-00			1		KNOB, charcoal—FOCUS
	- - - - - -			-		knob includes:
	214-0949-00			1		SPRING
-3	366-0392-00			1		KNOB, charcoal—SCALE ILLUM
	- - - - - -			-		knob includes:
	214-0949-00			1		SPRING
-4	366-0392-00			1		KNOB, charcoal—ASTIGMATISM
	- - - - - -			-		knob includes:
	214-0949-00			1		SPRING
-5	366-0392-00			1		KNOB, charcoal—INTENSIFIER
	- - - - - -			-		knob includes:
	214-0949-00			1		SPRING
-6	366-0392-00			1		KNOB, charcoal—POSITION (horizontal)
	- - - - - -			-		knob includes:
	214-0949-00			1		SPRING
-7	366-0392-00			1		KNOB, charcoal—POSITION (vertical)
	- - - - - -			-		knob includes:
	214-0949-00			1		SPRING
-8	366-0379-00			1		KNOB, charcoal—DISPERSION RANGE
	- - - - - -			-		knob includes:
	213-0153-00			1		SCREW, set, 5-40 x 0.125 inch, HSS
-9	366-0373-00			1		KNOB, red—POWER OFF-ON
	- - - - - -			-		knob includes:
	213-0153-00			1		SCREW, set, 5-40 x 0.125 inch, HSS
-10	366-0393-00	B010100	B139999	1		KNOB, charcoal—IF CENTER FREQ (fine)
	366-0494-00	B140000		1		KNOB, charcoal—IF CENTER FREQ (fine)
	- - - - - -			-		knob includes:
	213-0153-00			1		SCREW, set, 5-40 x 0.125 inch, HSS
-11	- - - - - -			3		RESISTOR, variable
	- - - - - -			-		mounting hardware for each: (not included w/resistor)
-12	361-0143-00			1		SPACER, ring
-13	210-0940-00			1		WASHER, flat, 1/4 ID x 3/8 inch OD
-14	210-0583-00			1		NUT, hex., 1/4-32 x 5/16 inch
-15	366-0393-00	B010100	B139999	1		KNOB, charcoal—TRIGGER (LEVEL)
	366-0494-00	B140000		1		KNOB, charcoal—TRIGGER (LEVEL)
	- - - - - -			-		knob includes:
	213-0153-00			1		SCREW, set, 5-40 x 0.125 inch, HSS
-16	- - - - - -			1		RESISTOR, variable
	- - - - - -			-		mounting hardware: (not included w/resistor)
-17	361-0143-00			1		SPACER, ring
-18	210-0583-00			1		NUT, hex., 1/4-32 x 5/16 inch
-19	366-0215-02			1		KNOB, charcoal, lever—TRIGGER (SLOPE)
-20	260-0664-00			1		SWITCH, lever—TRIGGER (SLOPE)
	- - - - - -			-		mounting hardware: (not included w/switch)
-21	220-0413-00			2		NUT, hex., 4-40 x 0.562 inch long

Fig. & Index No.	Tektronix Part No.	Serial/Model No. Eff	Serial/Model No. Disc	Qty 1 2 3 4 5	Description
1-22	366-0215-02			1	KNOB, charcoal lever—TRIGGER (SOURCE)
-23	260-0665-00			1	SWITCH, lever—TRIGGER (SOURCE)
	- - - - - -				mounting hardware: (not included w/switch)
-24	220-0413-00			2	NUT, hex., 4-40 x 0.562 inch long
-25	366-0393-00	B010100	B139999	1	KNOB, charcoal—GAIN
	366-0494-00	B140000		1	KNOB, charcoal—GAIN
	- - - - - -			-	knob includes:
	213-0153-00			1	SCREW, set, 5-40 x 0.125 inch, HSS
-26	366-0393-00	B010100	B139999	1	KNOB, charcoal—MIXER PEAKING
	366-0494-00	B140000		1	KNOB, charcoal—MIXER PEAKING
	- - - - - -			-	knob includes:
	213-0153-00			1	SCREW, set, 5-40 x 0.125 inch, HSS
-27	366-0413-00	B010100	B139999	1	KNOB, charcoal—FINE RF CENTER FREQ
	366-0495-00	B140000		1	KNOB, charcoal—FINE RF CENTER FREQ
	- - - - - -			-	knob includes:
	213-0153-00			1	SCREW, set, 5-40 x 0.125 inch, HSS
-28	366-0393-00	B010100	B139999	1	KNOB, charcoal—PHASE LOCK (INT REF FREQ)
	366-0494-00	B140000		1	KNOB, charcoal—PHASE LOCK (INT REF FREQ)
	- - - - - -			-	knob includes:
	213-0153-00			1	SCREW, set, 5-40 x 0.125 inch, HSS
-29	366-0407-00	B010100	B139999	1	KNOB, red—VARIABLE CAL
	366-0493-00	B140000		1	KNOB, red—VARIABLE CAL
	- - - - - -			-	knob includes:
	213-0153-00			1	SCREW, set, 5-40 x 0.125 inch, HSS
-30	366-0398-00	B010100	B139999	1	KNOB, charcoal—TIME/DIV
	366-1001-00	B140000		1	KNOB, charcoal—TIME/DIV
	- - - - - -			-	knob includes:
	213-0153-00			1	SCREW, set, 5-40 x 0.125 inch, HSS
-31	366-0215-02			1	KNOB, charcoal, lever—VERTICAL DISPLAY
-32	260-0820-00			1	SWITCH, lever—VERTICAL DISPLAY
	- - - - - -			-	mounting hardware: (not included w/switch)
-33	220-0413-00			2	NUT, hex, 4-40 x 0.562 inch long
-34	260-0643-00			1	SWITCH, toggle—VIDEO FILTER
	- - - - - -			-	mounting hardware: (not included w/switch)
-35	210-0046-00			1	LOCKWASHER, internal, 1/4 ID x 0.400 inch OD
-36	210-0562-00			2	NUT, hex., 1/4-40 x 5/16 inch
-37	331-0168-00	B010100	B019999	1	DIAL, w/o brake—IF CENTER FREQ
	331-0168-01	B020000		1	DIAL, w/brake—IF CENTER FREQ
-38	366-0215-02			1	KNOB, charcoal, lever—RF CENTER FREQ
-39	366-0405-00	B010100	B139999	1	KNOB, charcoal—COUPLED RESOLUTION
	366-1033-00	B140000		1	KNOB, charcoal—COUPLED RESOLUTION
	- - - - - -				knob includes:
	213-0153-00			1	SCREW, set, 5-40 x 0.125 inch, HSS
-40	366-0406-00			1	KNOB, charcoal—DISPERSION
	- - - - - -				knob includes:
	213-0153-00			1	SCREW, set, 5-40 x 0.125 inch, HSS
-41	262-0788-00			1	SWITCH, wired—COUPLED RESOLUTION-DISPERSION
	- - - - - -				switch includes:
	260-0759-01			1	SWITCH, unwired
	- - - - - -				mounting hardware: (not included w/switch)
-42	210-0978-00			1	WASHER, flat, 3/8 ID x 1/2 inch OD
-43	210-0590-00			1	NUT, hex., 3/8-32 x 7/16 inch

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Fig. & Index No.	Tektronix Part No.	Serial/Model No. Eff	Serial/Model No. Disc	Qty	1 2 3 4 5 Description
1-44	199-0066-00			1	ATTENUATOR, pad
	- - - - - -				mounting hardware: (not included w/attenuator)
	210-1010-00			1	WASHER, flat, 0.643 ID x 0.875 inch OD
-45	119-0064-00			1	MIXER, w/crystal
-46	103-0057-00			1	ADAPTER, connector
	136-0246-00			1	ASSEMBLY, receptacle, locking, coaxial, mixer (BAND "C")
	- - - - - -				assembly includes:
-47	220-0467-00			1	NUT, sleeve, 0.875-20 x 1 x 1 inch long
-48	210-0047-00			1	LOCKWASHER, internal, 0.880 ID x 1.110 inches OD
-49	175-0420-00			1	ASSEMBLY, cable, 4.375 inches (ASSEMBLY to J46)
-50	354-0303-00			1	RING, retaining
-51	354-0301-01			1	RING, locking
-52	205-0077-00			1	SHELL
-53	214-0862-00			2	SPRING, locking
-54	214-0861-00			1	SPRING, compression
-55	166-0005-00			1	TUBE, spacer
-56	214-0505-00			1	CAM, switch actuator
	- - - - - -			-	mounting hardware: (not included w/cam)
-57	213-0022-00			1	SCREW, set, 4-40 x 3/16 inch, HSS
-58	358-0301-01			4	BUSHING, plastic
-59	358-0210-00			1	BUSHING, plastic, 1 1/32 diameter x 5/32 inch long
-60	376-0067-00			1	COUPLING
	- - - - - -			-	coupling includes:
	213-0048-00			2	SCREW, set, 4-40 x 1/8 inch, HSS
-61	384-0419-00			1	SHAFT, extension
-62	384-0658-00			1	SHAFT, extension
-63	136-0223-00			1	SOCKET, light w/hardware
	- - - - - -			-	mounting hardware: (not included w/socket)
	210-0940-00			1	WASHER, flat, 1/4 ID x 3/8 inch, OD
-64	380-0110-01			1	HOUSING, gear drive
	- - - - - -			-	mounting hardware: (not included w/housing)
-65	211-0507-00			2	SCREW, 6-32 x 5/16 inch, PHS
-66	214-0911-00			2	GEAR
	- - - - - -				mounting hardware for each: (not included w/gear)
-67	213-0075-00			2	SCREW, set, 4-40 x 3/32 inch, HSS
-68	354-0251-00	B0101 00	B069999X	1	RING, coupling
	- - - - - -			-	mounting hardware: (not included w/ring)
-69	213-0048-00	B010100	B069999X	2	SCREW, set, 4-40 x 1/4 inch, HSS
-70	214-0765-00	B0101 00	B069999	1	ACTUATOR, switch
	214-0765-01	B070000		1	ASSEMBLY, actuator, switch
	- - - - - -			-	assembly includes:
	166-0447-00			1	SLEEVE, 0.125 ID x 0.161 OD x 0.375 inch long
	214-0775-00			1	actuator, switch
	354-0251-00			1	RING, coupling
	213-0048-00			2	SCREW, set, 4-40 x 1/8 inch HSS

Fig. & Index No.	Tektronix Part No.	Serial/Model No. Eff	Serial/Model No. Disc	Qty	Description
1-71	376-0068-00			1	COUPLING
	- - - - - -				coupling includes:
	213-0048-00			2	SCREW, set, 4-40 x 1/8 inch, HSS
-72	384-0420-00			1	SHAFT, extension
-73	384-0658-00			1	SHAFT, extension
-74	200-0021-00			2	COVER, plastic, black, 1 5/8 inches
-75	348-0031-00			2	GROMMET, plastic, 1/4 inch
-76	407-0315-01			1	BRACKET, protector bar, right
	- - - - - -				mounting hardware: (not included w/bracket)
-77	211-0507-00			2	SCREW, 6-32 x 5/16 inch, PHS
-78	407-0315-02			1	BRACKET, protector bar, left
	- - - - - -				mounting hardware: (not included w/bracket)
-79	211-0507-00			2	SCREW, 6-32 x 5/16 inch, PHS
-80	384-0631-00			2	ROD, spacer
	- - - - - -			-	mounting hardware for each: (not included w/rod)
-81	212-0068-00			2	SCREW, 8-32 x 5/16 inch, THS
-82	426-0259-01			2	FRAME, rail
	- - - - - -				mounting hardware for each: (not included w/frame)
-83	212-0506-00			4	SCREW, 10-32 x 3/8 inch, 100° csk, FHS
-84	348-0117-00			2	SHIELDING GASKET
-85	348-0117-01			2	SHIELDING GASKET
-86	214-0654-00	B010100	B149999	1	SPRING, grounding
	348-0155-00	B1 50000		1	SHIELDING GASKET
-87	378-0571-00			1	FILTER, mesh
-88	366-0394-00	B0101 00	B089999	1	KNOB, charcoal—RF CENTER FREQUENCY
	- - - - - -				knob includes:
	213-01 53-00	B010100	B089999	1	SCREW, set, 5-40 x 0.125 inch, HSS
	366-0402-00	B090000		1	KNOB, charcoal, crank—RF CENTER FREQUENCY
	- - - - - -			-	knob includes:
	21 3-01 53-00	B090000		2	SCREW, set, 5-40 x 0.125 inch, HSS
-89	337-0925-01			1	SHIELDING, GASKET
-90	175-0419-00			1	ASSEMBLY, cable, 8 inches (J1 to J10)
	- - - - - -				assembly includes:
	131-0390-00			1	CONNECTOR, coaxial, 1 contact, BNC, w/hardware
-91	426-0318-01			1	FRAME, front subpanel
	- - - - -				frame includes:
-92	213-0020-00			7	SCREW, set, 6-32 x 1/8 inch, HSS
-93	333-0960-01			1	PANEL, front
	- - - - - -				mounting hardware: (not included w/panel)
	213-0055-01			1	SCREW, thread forming, 2-32 x 3/16 inch, PHS (not shown)
-94	388-0817-00			1	BOARD, circuit, 1 terminal
	- - - - - -				mounting hardware: (not included w/board)
-95	211-0116-00			1	SCREW, sems, 4-40 x 5/16 inch, PHB
-96	388-0815-00			1	BOARD, circuit, 3 terminal
	- - - - - -				mounting hardware: (not included w/board)
-97	211-0116-00			2	SCREW, sems, 4-40 x 5/16 inch, PHB

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FIG. 2 REAR

Fig. & Index No.	Tektronix Part No.	Serial/Model No. Eff	Serial/Model No. Disc	Qty	Description
2-98	175-0415-00	B010100	B090409	1	ASSEMBLY, cable, 10 inches (J69 to J72)
	175-0312-00	B090410		1	ASSEMBLY, cable, 10 inches (J69 to J72)
-99	175-0417-00	B010100	B090409	1	ASSEMBLY, cable, 12 inches (J65 to J41 A)
	175-0364-00	B090410		1	ASSEMBLY, cable, 12 inches (J65 to J41 A)
-100	119-0096-00			1	MIXER
-101	260-0866-00			1	SWITCH, unwired—DISPERSION RANGE
	- - - - - -				mounting hardware: (not included w/switch)
	213-0022-00			1	SCREW, set, 4-40 x 3/16 inch, HSS (not shown)
-1	352-0031-00			1	HOLDER, fuse, single, 3AG
	- - - - - -				mounting hardware: (not included w/holder)
-2	211-0504-00			1	SCREW, 6-32 x 1/4 inch, PHS
-3	119-0095-00	B010100	B059999	1	FILTER, RFI
	119-0095-03	B060000		1	FILTER, RFI
	- - - - - -				mounting hardware: (not included w/filter)
-4	211-0507-00			2	SCREW, 6-32 x 5/16 inch, PHS
-5	210-0457-00			2	NUT, keps, 6-32 x 5/16 inch
-6	131-0106-01			3	CONNECTOR, coaxial, 1 contact, BNC, w/hardware
	- - - - - -				mounting hardware for each: (not included w/connector)
-7	210-0255-00			1	LUG, solder, 3/8 inch
-8	131-0373-00			2	CONNECTOR, terminal standoff
	- - - - - -				mounting hardware for each: (not included w/connector)
	210-0001-00			1	LOCKWASHER, internal, #2 (not shown)
-9	210-0405-00			1	NUT, hex., 2-56 x 3/16 inch
-10	- - - - - -			1	CAPACITOR
	- - - - - -				mounting hardware: (not included w/capacitor)
-11	407-0297-00			1	BRACKET
-12	210-0586-00			2	NUT, keps, 4-40 x 1/4 inch
	129-0053-00			1	ASSEMBLY, binding post
	- - - - - -				assembly includes:
-13	355-0507-00			1	STEM
-14	200-0103-00			1	CAP
	- - - - - -				mounting hardware: (not included w/assembly)
-15	210-0046-00			1	LOCKWASHER, internal, 1/4 ID x 15/32 inch OD
-16	210-0455-00			1	NUT, hex., 1/4-28 x 3/8 x 3/32 inch
-17	- - - - - -			1	RESISTOR, variable
	- - - - - -				mounting hardware: (not included w/resistor)
-18	210-0046-00			1	LOCKWASHER, internal, 1/4 ID x 0.400 inch OD
-19	210-0583-00			1	NUT, hex., 1/4-32 x 5/16 inch

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FIG. 2 REAR *(cont)*

Fig. & Index No.	Tektronix Part No.	Serial/Model No. Eff	Serial/Model No. Disc	Qty	Description
2-20	407-0272-00			1	BRACKET
	- - - - - -				mounting hardware: (not included w/bracket)
-21	211-0512-00			1	SCREW, 6-32 x 1/2 inch, 100° csk, FHS
-22	210-0457-00			1	NUT, keps, 6-32 x 5/64 inch
-23	211-0507-00			2	SCREW, 6-32 x 5/16 inch, PHS
-24	670-0506-00			1	ASSEMBLY, circuit board—VERTICAL AMPLIFIER & BLANKING
	- - - - - -				assembly includes:
	388-0800-00			1	BOARD, circuit
-25	214-0506-00			26	PIN, connector, male
-26	136-0183-00			3	SOCKET, transistor, 3 pin
-27	136-0220-00			8	SOCKET, transistor, 3 pin
	- - - - - -				mounting hardware: (not included w/assembly)
-28	211-0116-00			4	SCREW, sems, 4-40 x 5/16 inch, PHB
-29	200-0021-00			1	COVER, plastic, black, 1 5/8 inches
-30	204-0279-00			1	ASSEMBLY, line voltage selector
	- - - - - -				mounting hardware: (not included w/body)
-31	210-0006-00			2	LOCKWASHER, internal, #6
-32	210-0407-00			2	NUT, hex., 6-32 x 1/4 inch
-33	200-0764-00			1	COVER, line voltage selector
	- - - - - -				cover includes:
-34	352-0102-00			2	HOLDER, fuse, plastic
	- - - - - -				mounting hardware for each: (not included w/holder)
-35	213-0088-00			2	SCREW, thread cutting, #4 x 1/4 inch, PHS
-36	337-0901-00			1	SHIELDING GASKET
-37	386-1115-00			1	PLATE, rear
-38	337-0871-00			1	SHIELD
	- - - - - -				mounting hardware: (not included w/shield)
-39	211-0512-00			2	SCREW, 6-32 x 1/2 inch, 100° csk, FHS
-40	210-0457-00			2	NUT, keps, 6-32 x 5/16 inch
	210-0586-00			4	NUT, keps, 4-40 x 1/4 inch, (not shown)
	621-0428-00			1	ASSEMBLY, high voltage
	- - - - - -			-	assembly includes:
-41	200-0607-00			1	COVER
-42	202-0135-00			1	BOX
-43	670-0508-00			1	ASSEMBLY, circuit board, 175 V supply
	- - - - - -				assembly includes:
	388-0807-00			1	BOARD, circuit
-44	214-0806-00			1	INSULATOR, plastic
-45	670-0509-00			1	ASSEMBLY, circuit board, CRT HV divider
	- - - - - -				assembly includes:
	388-0808-00			1	BOARD, circuit
-46	670-0510-00			1	ASSEMBLY, circuit board, CRT HV supply
	- - - - - -				assembly includes:
	388-0809-00			1	BOARD, circuit

Fig. & Index No.	Tektronix Part No.	Serial/Model No. Eff	Serial/Model No. Disc	Qty	Description
2-47	179-1097-00	B010100	B019999	1	CABLE HARNESS, high voltage & CRT
	179-1194-00	B020000	B119999	1	CABLE HARNESS, high voltage & CRT
	179-1194-01	B120000		1	CABLE HARNESS, high voltage & CRT
	- - - - - -				cable harness includes:
-48	131-0371-00			7	CONNECTOR, single contact
-49	136-0243-00	B010100	B119999	1	SOCKET, CRT, 14 pin
	136-0243-01	B120000		1	SOCKET, CRT, 14 pin
	- - - - - -				socket includes:
	136-0202-01			1	SOCKET, CRT, 14 pin
	200-0616-00	B010100	B119999X	1	COVER, CRT socket
	- - - - - -				mounting hardware: (not included w/assembly)
-50	211-0544-00			2	SCREW, 6-32 x 3/4 inch, THS
-51	129-0104-00			2	POST, 0.25 diameter x 1.59 inches
-52	211-0507-00			2	SCREW, 6-32 x 5/16 inch, PHS
-53	200-0616-00	XB120000		1	COVER, CRT socket
-54	426-0319-01			1	FRAME, rear, lower
-55	426-0320-00			1	FRAME, rear, upper
	- - - - - -				mounting hardware: (not included w/frame)
-56	212-0506-00			2	SCREW, 10-32 x 3/8 inch, 100° csk, FHS
-57	179-1096-00	B010100	B019999X	1	CABLE HARNESS, power #2
	- - - - - -			-	cable harness includes:
-58	214-0768-00			8	CONTACT
-59	214-0776-00			1	SHIELDING GASKET

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FIG. 3 IF CHASSIS & PHASE LOCK ASSEMBLIES

Fig. & Index No.	Tektronix Part No.	Serial/Model No. Eff	Serial/Model No. Disc	Qty	Description 1 2 3 4 5
3-	610-0175-00			1	ASSEMBLY, IF CHASSIS
	- - - - - -				assembly includes:
- -	610-0173-00			1	ASSEMBLY, IF ATTENUATOR dB
	- - - - - -			-	assembly includes:
-1	260-0642-00			6	SWITCH, toggle—IF ATTENUATOR dB
-2	337-0799-00			1	SHIELD, switch
- -	610-0174-00			1	ASSEMBLY, BANDPASS FILTER
	- - - -				assembly includes:
-3	131-0372-00			4	CONNECTOR, coaxial, 1 contact, w/hardware
-4	210-0206-00			2	LUG, solder, SE #10, long
- 5	- - - - - - -			6	CAPACITOR
	- - - - - -				mounting hardware for each: (not included w/capacitor)
-6	214-0456-00			1	FASTENER, plastic
-7	124-0181-00			2	STRIP, terminal
- 8	337-0802-00			1	SHIELD, filter
-9	441-0667-00			1	CHASSIS
	- - - - - -				mounting, hardware: (not included w/assembly)
-10	211-0065-00			8	SCREW, 4-40 x 3/16 inch, PHS
-11	131-0182-00			2	CONNECTOR, terminal feed thru
	- - - - - -				mounting hardware for each: (not included w/connector)
	358-0135-00			1	BUSHING, plastic
-12	131-0372-00			9	CONNECTOR, coaxial, 1 contact, w/hardware
-13	- - - - - - -			1	CAPACITOR, w/hardware
	- - - - - -				mounting hardware for each: (not included w/capacitor)
-14	210-0812-00			1	WASHER, fiber, #10
-15	210-0813-00			1	WASHER, fiber, #10, shouldered
-16	- - - - - - -			6	CAPACITOR, w/hardware
-17	131-0373-00			21	CONNECTOR, terminal standoff
	- - - - - -				mounting hardware for each: (not included w/connector)
-18	210-0259-00			1	LUG, solder, #2
-19	210-0405-00			1	NUT, hex., 4-40 x 3/16 inch
-20	136-0153-00			1	SOCKET, crystal, 2 pin, w/clamp
	- - - - - -				mounting hardware: (not included w/socket)
-21	211-0022-00			1	SCREW, 2-56 x 3/16 inch, RHS
-22	210-0405-00			1	NUT, hex., 2-56 x 3/16 inch
	210-0001-00			1	LOCKWASHER, internal, #2 (not shown)
-23	131-0373-00			9	CONNECTOR, terminal standoff
	- - - - - -				mounting hardware for each: (not included w/connector)
-24	210-0001-00			1	LOCKWASHER, internal, #2
-25	210-0405-00			1	NUT, hex., 4-40 x 3/16 inch

FIG. 3 IF CHASSIS & PHASE LOCK ASSEMBLIES *(cont)*

Fig. & Index No.	Tektronix Part No.	Serial/Model No. Eff	Serial/Model No. Disc	Qty	Description
3-26	136-0217-00			9	SOCKET, transistor, 4 pin
	- - - - - -			-	mounting hardware for each: (not included w/socket)
-27	354-0285-00			1	HOLDER, socket
-28	136-0218-00			6	SOCKET, transistor, 3 pin
	- - - - - -			-	mounting hardware for each: (not included w/socket)
-29	354-0285-00			1	HOLDER, socket
-30	260-0643-00			1	SWITCH, toggle—DISPERSION RANGE
	- - - - - -			-	mounting hardware: (not included w/switch)
	214-0695-00			1	WASHER, key, 0.255 ID x 0.375 inch OD
	210-0562-00			1	NUT, hex., 1/4-40 x 5/16 inch
-31	426-0121-00			2	MOUNT, toroid, plastic
	- - - - - -			-	mounting hardware for each: (not included w/mount)
-32	361-0007-00			1	SPACER, plastic, 0.188 inch long
-33	- - - - - -			1	COIL
	- - - - - -			-	mounting hardware: (not included w/coil)
-34	385-0150-00			1	ROD, spacer, 3/8 x 5/8 inch
-35	210-0004-00			1	LOCKWASHER, internal, #4
-36	211-0008-00			1	SCREW, 4-40 x 1/4 inch, PHS
-37	337-0801-00			1	SHIELD
--38	337-0803-01			1	SHIELD
-39	388-0683-00			1	BOARD, connector
	- - - - - -				board includes:
-40	214-0506-00			16	PIN, connector, male
	- - - - - -			-	mounting hardware: (not included w/board)
-41	213-0141-00			2	SCREW, thread forming, 4-40 x 1/4 inch, PHS
-42	670-0100-00			1	ASSEMBLY, circuit board
	- - - - - -			-	assembly includes:
	388-0684-00			1	BOARD, circuit
-43	179-1046-00			1	CABLE HARNESS, sweeper
-44	441-0666-00			1	CHASSIS
	- - - - - -			-	mounting hardware: (not included w/chassis)
-45	211-0065-00			16	SCREW, 4-40 x 3/16 inch, PHS
-46	386-1032-00			1	PLATE, chassis cover
	- - - - - -			-	mounting hardware: (not included w/plate)
-47	211-0065-00			16	SCREW, 4-40 x 3/16 inch, PHS
-48	211-0105-00			5	SCREW, 4-40 x 3/16 inch, FHS
-49	136-0208-00	B0101 00	B159999	1	SOCKET, crystal
	136-0325-00	B1 60000		1	SOCKET, crystal
	352-0130-01	B1 60000		1	HOLDER, crystal
-50	131-0372-00			2	CONNECTOR, coaxial, 1 contact, w/hardware
	- - - - - -			-	mounting hardware for each: (not included w/connector)
-51	210-0812-00			1	WASHER, fiber, #10
-52	210-0206-00			1	LUG, solder, #10
-53	210-0813-00			1	WASHER, fiber, #10, shouldered

Fig. & Index No.	Tektronix Part No.	Serial/Model No. Eff	Serial/Model No. Disc	Qty	1 2 3 4 5	Description
3-54	210-0259-00			6		LUG, solder, #2
	- - - - - -					mounting hardware for each: (not included w/lug)
-55	213-0055-00			1		SCREW, 2-56 x 3/16 inch, PHS
-56	175-0308-00			1		ASSEMBLY, cable, 2 inches (J120 to J109)
	175-0313-00			1		ASSEMBLY, cable, 3 inches (J147 to J151)
	175-0384-00			1		[1]ASSEMBLY, cable, black band
	175-0384-01			1		[1]ASSEMBLY, cable, brown band
	175-0384-02			1		[1]ASSEMBLY, cable, red band
	175-0384-03			1		[1]ASSEMBLY, cable, orange band
	175-0384-04			1		[1]ASSEMBLY, cable, yellow band
	175-0358-00			1		ASSEMBLY, cable, 1 9/16 inches (J363 to J148)
	175-0358-00			1		ASSEMBLY, cable, 1 9/16 inches (J501 to J470)
	175-0358-00	B0101 00	B059999	1		ASSEMBLY, cable, 1 9/16 inches (J188 to J401)
	175-0413-00	B060000		1		ASSEMBLY, cable, 8.250 inches (J188 to J401)
	- - - - - -					mounting hardware: (not included w/assembly)
	211-0507-00			2		SCREW, 6-32 x 5/16 inch, PHS (not shown)
	210-0562-00			6		NUT, hex., 1/4-40 x 5/16 inch (not shown)
	210-0940-00			6		WASHER, flat, 1/4 ID x 3/8 inch OD
-57	175-0413-00			1		ASSEMBLY, cable 8 inches (J100 to J94)
	644-0415-00			1		ASSEMBLY, PHASE LOCK
	- - - - - -			-		assembly includes:
-58	670-0504-00			1		ASSEMBLY, circuit board—PHASE LOCK
	- - - - - -			-		assembly includes:
	388-0798-00			1		BOARD, circuit
	132-0119-00			3		DISK, plastic (not shown)
-59	136-0183-00			1		SOCKET, transistor, 3 pin
-60	136-0220-00			7		SOCKET, transistor, 3 pin
-61	344-0064-00			16		CLIP, diode
-62	352-0041-00			11		HOLDER, diode
-63	352-0096-00			1		HOLDER, crystal
-64	131-0391-00			3		CONNECTOR, coaxial, 1 contact
	- - - - - -			-		mounting hardware: (not included w/assembly)
-65	211-0116-00			7		SCREW, sems, 4-40 x 5/16 inch, PHB
-66	131-0352-01			1		CONNECTOR, coaxial, 1 contact, BNC, w/hardware
-67	- - - - - -			1		RESISTOR, variable
	- - - - - -			-		mounting hardware: (not included w/resistor)
-68	210-0011-00			1		LOCKWASHER, internal, 1/4 ID x 15/32 inch OD
-69	210-0905-00			1		WASHER, flat, 0.265 ID x 7/16 inch OD
-70	210-0583-00			1		NUT, hex., 1/4-32 x 5/16 inch
-71	260-0689-00			1		SWITCH, push button—LOCK CHECK
	- - - - - -					mounting hardware: (not included w/switch)
-72	210-0223-00			1		LUG, solder, 1/4 ID x 7/16 inch OD, SE
-73	210-0905-00			1		WASHER, flat, 0.265 ID x 7/16 inch OD
-74	210-0583-00			1		NUT, hex., 1/4-32 x 5/16 inch

[1]This is a specially selected cable assembly connected from J370 to J373 and J376 to J379. Replace only with part bearing the same color band as the original part in your instrument.

Fig. & Index No.	Tektronix Part No.	Serial/Model No. Eff	Serial/Model No. Disc	Qty	1 2 3 4 5	Description
3-75	- - - - - -			1		RESISTOR, variable
	- - - - - -			-		mounting hardware: (not included w/resistor)
	210-1042-00			1		LOSKWASHER, internal, 0.285 ID x 0.50 inch OD (not shown)
-76	210-0583-00			1		NUT, hex., 1/4-32 x 5/16 inch
-77	388-0688-00			1		BOARD, circuit
	- - - - - -			-		board includes:
-78	214-0507-00			10		PIN, connector
	- - - - - -			-		mounting hardware: (not included w/board)
-79	211-0116-00			2		SCREW, sems, 4-40 x 5/16 inch, PHB
-80	348-0056-00			1		GROMMET, plastic, 0.406 inch diameter
-81	337-0870-00			1		SHIELD
-82	179-1098-00			1		CABLE HARNESS, phase lock
-83	175-0418-00			1		ASSEMBLY, cable, 6 1/4 inches (J1 140)
	- - - - - -			-		assembly includes:
-84	131-0450-00			1		CONNECTOR, coaxial, 1 contact, w/hardware
-85	175-0418-00			1		ASSEMBLY, cable, 6 1/4 inches (J1 150)
	- - - - - -			-		assembly includes:
-86	131-0450-00			1		CONNECTOR, coaxial, 1 contact, w/hardware
-87	175-0418-00			1		ASSEMBLY, cable, 6 1/4 inches (J1 160)
	- - - - - -			-		assembly includes:
-88	131-0450-00			1		CONNECTOR, coaxial, 1 contact, w/hardware
	- - - - - -			-		mounting hardware: (not included w/assembly)
	210-0940-00			3		WASHER, flat, 1/4 ID x 3/8 inch OD
	210-0583-00			3		NUT, hex., 1/4-32 x 5/16 inch
	211-0504-00			1		SCREW, 6-32 x 1/4 inch, PHS
-89	343-0081-00			1		CLAMP, cable, plastic, 3/16 inch
	- - - - - -					mounting hardware: (not included w/clamp)
-90	211-0510-00			1		SCREW, 6-32 x 3/8 inch, PHS
-91	210-0803-00			1		WASHER, flat, 0.150 x 3/8 inch OD
	210-0457-00			1		NUT, keps, 6-32 x 5/16 inch
-92	119-0100-00			1		MULTIPLEXER
	- - - - - -			-		mounting hardware: (not included w/multiplexer)
-93	210-0906-00	B010100	B100000X	2		WASHER, fiber, 1/8 inch ID x 13/64 inch OD
-94	210-1008-00			2		WASHER, flat, 0.090 ID x 0.188 inch OD
-95	211-0001-00			2		SCREW, 2-56 x 1/4 inch, RHS
	210-0001-00			2		LOCKWASHER, internal, #2 (not shown)
-96	136-0218-00			2		SOCKET, transistor, 3 pin
	- - - - - -			-		mounting hardware for each: (not included w/socket)
-97	354-0285-00			1		HOLDER, socket
-98	344-0002-00			2		CLIP
	- - - - - -			-		mounting hardware for each: (not included w/clip)
-99	213-0138-00			1		SCREW, sheet metal, #4 3/16 inch, PHS
-100	210-0201-00			1		LUG, solder, SE #4
	- - - - - -			-		mounting hardware: (not included w/lug)
-101	213-0138-00			1		SCREW, sheet metal, #4 x 3/16 inch, PHS

Fig. & Index No.	Tektronix Part No.	Serial/Model No. Eff	Serial/Model No. Disc	Qty	Description
					1 2 3 4 5
3-102	337-0879-00			1	SHIELD
	- - - - - -				mounting hardware: (not included w/shield)
-103	213-0138-00			5	SCREW, sheet metal, #4 x 3/16 inch, PHS
- -	610-0169-00	B010100	B119999		ASSEMBLY, 10-275 MHz MIXER "A"
	610-0169-02	B1 20000			ASSEMBLY, 10-275 MHz MIXER "A"
	- - - - - -			-	assembly includes:
-104	131-0372-00			3	CONNECTOR, coaxial, 1 contact, w/hardware
-105	131-0373-00			4	CONNECTOR, terminal standoff
	- - - - - -				mounting hardware for each: (not included w/connector)
	210-0001-00			1	LOCKWASHER, internal, #2 (not shown)
	210-0405-00			1	NUT, hex., 4-40 x 3/16 inch (not shown)
-106	- - - - - -			2	CAPACITOR, w/hardware
-107	441-0671-00	B010100	B119999	1	CHASSIS
	441-0671-03	B1 20000		1	CHASSIS
	- - - - - -			-	mounting hardware: (not included w/chassis)
-108	210-0599-00			4	NUT, sleeve, 4-40 x 0.391 inch long
-109	380-0097-00			1	HOUSING
-110	386-1037-00			1	PLATE, shield bottom
	- - - - - -				mounting hardware: (not included w/plate)
-111	211-0106-00			4	SCREW, 4-40 x 5/8 inch, 100° csk, FHS
	- - - - - -				mounting hardware: (not included w/assembly)
-112	213-0138-00			2	SCREW, sheet metal, #4 x 3/16 inch, PHS
- -	610-0170-00			1	ASSEMBLY, LOW PASS FILTER
	- - - - - -			-	assembly includes:
	124-0180-00			1	STRIP, terminal (not shown)
-113	- - - - - -			4	CAPACITOR, w/hardware
-114	131-0372-00			2	CONNECTOR, coaxial, 1 contact, w/hardware
-115	337-0806-00			2	SHIELD
	- - - - - -				mounting hardware for each: (not included w/shield)
	213-0138-00			1	SCREW, sheet metal, #4 x 3/16 inch, PHS
-116	441-0669-01			1	CHASSIS
	- - - - - -				mounting hardware: (not included w/assembly)
-117	210-0586-00			2	NUT, keps, 4-40 x 1/4 inch
- -	610-0171-00			1	ASSEMBLY, LOW PASS FILTER 235 MHz
	- - - - - -				assembly includes:
-118	131-0372-00			2	CONNECTOR, coaxial, 1 contact, w/hardware
-119	337-0806-00			2	SHIELD
	- - - - - -			-	mounting hardware for each: (not included w/shield)
	213-0138-00			1	SCREW, sheet metal, #4 x 3/16 inch, PHS
-120	441-0669-02			1	CHASSIS
-121	- - - - - -			4	CAPACITOR, w/hardware
	- - - - - -			-	mounting hardware: (not included w/assembly)
-122	210-0586-00			2	NUT, keps, 4-40 x 1/4 inch

Fig. & Index No.	Tektronix Part No.	Serial/Model No. Eff	Serial/Model No. Disc	Qty	1 2 3 4 5	Description
3-123	337-0805-00			2		SHIELD, filter
	- - - - - -			-		mounting hardware for each: (not included w/shield)
-124	213-0138-00			4		SCREW, sheet metal, #4 x 3/16 inch, PHS
-125	175-0414-00			1		ASSEMBLY, cable, 9 inches (J1 140 to J42B)
-126	174-0414-00			1		ASSEMBLY, cable, 9 inches (J1 150 to J41 B)
-127	175-0409-00	B0101 00	B010111	1		ASSEMBLY, cable, 6 1/4 inches (J1 160 to J40B)
	175-0411-00	B010112		1		ASSEMBLY, cable, 6 inches (J1 160 to J40B)
-128	175-0408-00			1		ASSEMBLY, cable, 4 1/2 inches (J80 to J75)
-129	175-0410-00			1		ASSEMBLY, cable, 5 1/2 inches (J34 to J71)
-130	175-0411-00			1		ASSEMBLY, cable, 6 inches (J20 to J18)
-131	175-0409-00			1		ASSEMBLY, cable, 5 1/4 inches (J50 to J47)
-132	175-0412-00	B010100	B090409	1		ASSEMBLY cable, 7 inches (J52 to J73)
	175-0310-00	B09041 0		1		ASSEMBLY, cable, 7 inches (J52 to J73)
-133	175-0312-00	B0101 00	B069999	1		ASSEMBLY, cable, 9 inches (J45 to J42A)
	175-0473-00	B070000		1		ASSEMBLY, cable, 9 inches (J45 to J42A)
-134	- - - - - -			1		ASSEMBLY, cable, (J46 to BAND "C" ASSEMBLY) (see Fig. 1 FRONT)
-135	- - - - - -			1		ASSEMBLY, cable, (J10 to J1) (see Fig. 1 FRONT)
-136	175-0416-00			1		ASSEMBLY, cable, (J14 to J40A)
-137	119-0091-00			1		DIVIDER, resistive

FIG. 4 POWER CHASSIS

Fig. & Index No.	Tektronix Part No.	Serial/Model No. Eff	Serial/Model No. Disc	Qty	Description
4-1	- - - - - -			1	TRANSFORMER
	- - - - - -				mounting hardware: (not included w/transformer)
-2	212-0522-00			4	SCREW, 10-32 x 2½ inches, HHS
-3	210-0812-00			4	WASHER, fiber, #10
-4	354-0019-01			1	RING
-5	220-0410-00			4	NUT, keps, 10-32 x 3/8 inch
-6	200-0533-00			1	COVER, capacitor, plastic, 1 ID x 0.150 inch long
-7	- - - - - -			2	CAPACITOR
	- - - - - -				mounting hardware for each: (not included w/capacitor)
-8	211-0504-00			2	SCREW, 6-32 x 5/16 inch, PHS
-9	386-0255-00			1	PLATE, metal, large
-10	432-0048-00			1	BASE, plastic, large
-11	384-0519-00			2	ROD, hex., 1/4 x 9/16 inch
-12	211-0514-00			2	SCREW, 6-32 x 3/4 inch, PHS
-13	- - - - - -			1	CAPACITOR
	- - - - - -				mounting hardware: (not included w/capacitor)
-14	211-0507-00			2	SCREW, 6-32 x 5/16 inch, PHS
-15	386-0252-00			1	PLATE, fiber, small
-16	432-0047-00			1	BASE, plastic, small
-17	384-0519-00			2	ROD, hex., 1/4 x 9/16 inch
-18	211-0514-00			2	SCREW, 6-32 x 3/4 inch, PHS
-19	- - - - - -			2	RESISTOR
	- - - - - -				mounting hardware for each: (not included w/resistor)
-20	211-0544-00			1	SCREW, 6-32 x 3/4 inch, THS
-21	210-0478-00			1	NUT, hex., 5/16 x 21/32 inch long
-22	211-0507-00			1	SCREW, 6-32 x 5/16 inch, PHS
-23	260-0398-00	B010100	B159999	1	SWITCH, toggle—POWER OFF-ON
	260-0834-00	B150000		1	SWITCH, toggle—POWER OFF-ON
	- - - - - -				mounting hardware: (not included w/switch)
-24	210-0046-00			1	LOCKWASHER, internal, 1/4 ID x 0.400 inch OD
-25	210-0940-00			1	WASHER, flat, 1/4 ID x 3/8 inch OD
-26	210-0562-00			1	NUT, hex., 1/4-40 x 5/16 inch
-27	- - - - - -			4	TRANSISTOR
	- - - - - -			-	mounting hardware for each: (not included w/transistor)
-28	211-0510-00			2	SCREW, 6-32 x 3/8 inch, PHS
-29	386-0143-00			1	PLATE, mica, insulator
	210-0811-00			2	WASHER, fiber, #6, shouldered (not shown)
	210-0202-00			1	LUG, solder, SE #6 (not shown)
	210-0802-00			2	WASHER, flat, 0.150 ID x 5/16 inch OD (not shown)
	210-0457-00			2	NUT, keps, 6-32 x 5/16 inch (not shown)

Fig. & Index No.	Tektronix Part No.	Serial/Model No. Eff	Serial/Model No. Disc	Qty 1 2 3 4 5	Description
4-30	- - - - - -			1	TRANSISTOR
	- - - - - -			-	mounting hardware: (not included w/transistor)
-31	211-0510-00			2	SCREW, 6-32 x 3/8 inch, PHS
-32	386-0978-00			1	PLATE, mica, insulator
-33	210-0975-00			2	WASHER, fiber, shouldered, 0.140 ID x 0.375 inch OD
-34	210-0802-00			2	WASHER, flat, 0.150 ID x 5/16 inch OD
-35	210-0202-00			1	LUG, solder, SE #6
-36	210-0457-00			2	NUT, keps, 6-32 x 5/16 inch
-37	- - - - - -			1	THERMAL CUTOUT
	- - - - - -			-	mounting hardware: (not included w/thermal cutout)
-38	211-0008-00			2	SCREW, 4-40 x 1/4 inch, PHS
-39	210-0586-00			2	NUT, keps, 4-40 x 1/4 inch
-40	670-0507-00			1	ASSEMBLY, circuit board—LOW VOLTAGE POWER SUPPLY
	- - - - - -			-	assembly includes:
	388-0801-00			1	BOARD, circuit
-41	214-0506-00			1	PIN, connector, male
-42	136-0183-00			2	SOCKET, transistor, 3 pin
-43	136-0220-00			11	SOCKET, transistor, 3 pin
	- - - - - -			-	mounting hardware: (not included w/assembly)
-44	211-0116-00			4	SCREW, sems, 4-40 x 5/16 inch, PHB
-45	200-0709-00			1	COVER, transistor
-46	210-0201-00			1	LUG, solder, SE #4
	- - - - - -			-	mounting hardware: (not included w/lug)
-47	213-0044-00			1	SCREW, thread forming, 5-32 x 3/16 inch, PHS
-48	348-0050-00			1	GROMMET, plastic, 3/4 inch diameter
-49	407-0307-00			1	BRACKET, angle
	- - - - - -			-	mounting hardware: (not included w/bracket)
-50	210-0457-00			2	NUT, keps, 6-32 x 5/16 inch
-51	407-0275-00			1	BRACKET, angle
	- - - - - -			-	mounting hardware: (not included w/bracket)
-52	210-0586-00			2	NUT, keps, 4-40 x 1/4 inch
-53	131-0373-00			2	CONNECTOR, terminal standoff
	- - - - - -			-	mounting hardware for each: (not included w/connector)
-54	210-0001-00			1	LOCKWASHER, internal, #2
-55	210-0405-00			1	NUT, hex., 2-56 x 3/16 inch
-56	441-0689-00			1	CHASSIS, power
	- - - - - -			-	mounting hardware: (not included w/chassis)
	211-0507-00			12	SCREW, 6-32 x 5/16 inch, PHS

FIG. 4 POWER CHASSIS *(cont)*

Fig. & Index No.	Tektronix Part No.	Serial/Model No. Eff	Serial/Model No. Disc	Qty	1 2 3 4 5 Description
4-57	358-0215-00			1	BUSHING, plastic
-58	670-0505-00			1	ASSEMBLY, circuit board—IF CONTROL
	- - - - - -				assembly includes:
	388-0799-00			1	BOARD, circuit
-59	214-0506-00			54	PIN, connector, male
-60	136-0183-00			1	SOCKET, transistor, 3 pin
-61	136-0220-00			11	SOCKET, transistor, 3 pin
-62	136-0235-00			1	SOCKET, transitor, dual
-63	426-0121-00			4	MOUNT, toroid, plastic
-64	361-0007-00			4	SPACER, plastic, 0.188 inch long
	- - - - - -				mounting hardware: (not included w/assembly)
-65	211-0116-00			5	SCREW, sems, 4-40 x 5/16 inch, PHB
-66	407-0273-00			1	BRACKET, circuit board
	- - - - - -			-	bracket includes:
-67	210-1016-00			1	WASHER, spring, 0.228 ID x 0.375 inch OD
-68	214-0788-00			1	LATCH
-69	129-0107-00			1	POST, snapslide fastener
	- - - - - -			-	mounting hardware: (not included w/bracket)
-70	214-0793-00			1	PIN, hinge
-71	344-0137-00			1	CLIP, retaining
-72	343-0136-00			2	CLAMP, loop
-73	343-0089-00			2	CLAMP, cable, plastic, large
-74	348-0100-00			1	GROMMET, plastic, 7/8 inch diameter
-75	179-1094-00			1	CABLE HARNESS, IF control
	- - - - - -			-	cable harness includes:
-76	131-0371-00			77	CONNECTOR, single contact
-77	179-1095-00			1	CABLE HARNESS, power #1
	- - - - - -			-	cable harness includes:
-78	131-0371-00			56	CONNECTOR, single contact, female
-79	407-0276-00			1	BRACKET
	- - - - - -				mounting hardware: (not included w/bracket)
-80	211-0008-00			2	SCREW, 4-40 x 1/4 inch, PHS
-81	210-0201-00			2	LUG, solder, 3/8 ID x 5/8 inch OD, SE
-82	211-0504-00			2	SCREW, 6-32 x 1/4 inch, PHS

FIG. 5 TiME/DIV SWITCH & OSCILLATOR ASSEMBLIES

Fig. & Index No.	Tektronix Part No.	Serial/Model No. Eff	Serial/Model No. Disc	Qty	1 2 3 4 5	Description
5-1	262-0787-00			1		SWITCH, wired—TIME/DIV
	- - - - - -			-		switch includes:
	260-0819-00			1		SWITCH, unwired
- 2	- - - - - -			1		RESISTOR, variable
	- - - - - -					mounting hardware: (not included w/resistor)
- 3	210-0012-00			1		LOCKWASHER, internal, 3/8 x 1/2 inch OD
-4	210-0413-00			2		NUT, hex., 3/8-32 x 1/2 inch
- 5	376-0014-00			1		COUPLING, wire
- 6	376-0007-00			1		COUPLING
	- - - - - -			-		coupling includes:
-7	213-0005-00			2		SCREW, set, 8-32 x 1/8 inch, HSS
- 8	- - - - - -			1		CAPACITOR
	- - - - - -					mounting hardware: (not included w/capacitor)
-9	352-0050-00			1		HOLDER
-10	384-0651-00			1		SHAFT, extension
-11	384-0652-00			1		SHAFT, extension
	- - - - - -					mounting hardware: (not included w/switch)
	210-0978-00			1		WASHER, flat, 3/8 ID x 1/2 inch OD
	210-0012-00			1		LOCKWASHER, internal, 3/8 ID x 1/2 inch OD
	210-0590-00			1		NUT, hex., 3/8-32 x 7/16 inch
-12	670-0503-00			1		ASSEMBLY, circuit board—HORIZONTAL DISPLAY
	- - - - - -			-		assembly includes:
	388-0797-00			1		BOARD, circuit
-13	214-0506-00			26		PIN, connecting, male
-14	136-0183-00			2		SOCKET, transistor, 3 pin
-15	136-0220-00			18		SOCKET, transistor, 3 pin
	- - - - - -			-		mounting hardware: (not included w/assembly)
-16	352-0071-00			6		HOLDER
-17	211-0116-00			6		SCREW, sems, 4-40 x 5/16 inch, PHB
-18	- - - - - -			1		RESISTOR, variable
	- - - - - -			-		mounting hardware: (not included w/resistor)
-19	210-0046-00			1		LOCKWASHER, internal, 1/4 ID x 0.400 inch OD
-20	210-0940-00			1		WASHER, flat, 1/4 ID x 3/8 inch OD
-21	210-0583-00			1		NUT, hex., 1/4-32 x 5/16 inch
-22	407-0274-00			1		BRACKET
	- - - - - -			-		mounting hardware: (not included w/bracket)
-23	211-0008-00			2		SCREW, 4-40 x 1/4 inch, PHS
-24	352-0071-00			2		HOLDER
-25	210-0586-00			4		NUT, keps, 4-40 x 1/4 inch
-26	210-0449-00			4		NUT, hex., 5-40 x 1/4 inch

FIG. 5 TIME/DIV SWITCH & OSCILLATOR ASSEMBLIES *(cont)*

Fig. & Index No.	Tektronix Part No.	Serial/Model No. Eff	Serial/Model No. Disc	Qty	Description 1 2 3 4 5
5-27	179-1093-00			1	CABLE HARNESS, sweep
	- - - - - -			-	cable harness includes:
-28	131-0371-00			32	CONNECTOR, single contact
	119-0106-00			1	ASSEMBLY, oscillator
	- - - - - -				assembly includes:
	670-0523-00	XB1 50740		1	ASSEMBLY, circuit board—OSCILLATOR CONNECTOR
	- - - - - -			-	assembly includes:
	388-0816-00			1	BOARD, circuit
	214-0506-00			1	PIN, connector, male
	179-1099-00			1	CABLE HARNESS
	- - - - - -			-	cable harness includes:
	131-0371-00			2	CONNECTOR, single contact, female
	132-0014-00			1	SLEEVE
	- - - - - -				mounting hardware: (not included w/assembly)
	211-0116-00			2	SCREW, sems, 4-40 x 5/16 inch, PHS
-29	119-0063-01			1	OSCILLATOR
	- - - - - -			-	mounting hardware: (not included w/oscillator)
	210-0006-00			2	LOCKWASHER, internal, #6
-30	211-0564-00			2	SCREW, 6-32 x 0.375 inch, Socket HS
-31	119-0108-00			1	OSCILLATOR ASSEMBLY, RF
	- - - - - -				oscillator includes:
	119-0105-00			1	VARACTOR ASSEMBLY
	- - - - - -				mounting hardware: (not included w/varactor)
	213-0048-00			2	SCREW, set, 4-40 x 1/8 inch, HSS
	119-0107-00			1	PROBE, waveguide
	119-0107-01			1	PROBE, waveguide
	- - - - - -				mounting haardware for each: (not included w/probe)
	213-0048-00			2	SCREW, set, 4-40 x 1/8 inch, HSS
	- - - - - -				mounting hardware: (not included w/oscillator assembly)
-32	211-0559-00			1	SCREW, 6-32 x 0.375 inch, 100° csk, FHS
	210-0006-00			3	LOCKWASHER, internal, #6
-33	211-0510-00			3	SCREW, 6-32 x 0.375 inch, PHS
	331-0176-00			1	DIAL ASSEMBLY, tape
	- - - - - -				dial assembly includes:
-34	380-0111-01			1	HOUSING, dial
-35	214-0758-00			6	GEAR, helical
	- - - - - -			-	mounting hardware for each: (not included w/gear)
	213-0075-00			2	SCREW, set, 4-40 x 0.094 inch, HSS (not shown)
-36	210-1011-00			7	WASHER, plastic, 0.130 ID x 0.375 inch OD
-37	210-0839-00			1	WASHER, end play, 1/4 ID x 7/16 inch OD
-38	214-0803-00			1	LEVER
	- - - - - -			-	mounting hardware: (not included w/lever)
	213-0075-00			2	SCREW, set, 4-40 x 0.094 inch, HSS (not shown)
-39	214-0801-00			1	LEVER SHAFT
-40	384-0424-00	B0101 00	B130499	1	EXTENSION SHAFT
	384-0691-00	B1 30500		1	EXTENSION SHAFT
	- - - - - -			-	mounting hardware: (not included w/extension shaft)
	213-0075-00	B010100	B130499	2	SCREW, set, 4-40 x 0.094 inch, HSS (not shown)
	220-0491-00	B130500		1	NUT, hex., 3/8-32 x 0.438 inch
-41	384-0421-00			2	SHAFT

FIG. 5 TIME/DIV SWITCH & OSCILLATOR ASSEMBLIES *(cont)*

Fig. & Index No.	Tektronix Part No.	Serial/Model No. Eff	Serial/Model No. Disc	Qty	1 2 3 4 5	Description
5-42	384-0423-00			2		SHAFT
	- - - - - -			-		mounting hardware for each: (not included w/shaft)
-43	344-0137-00			2		CLIP, retaining
-44	384-0422-00			1		SHAFT
-45	210-0906-00			1		WASHER, fiber, 1/8 ID x 13/64 inch OD
-46	376-0051-00			1		COUPLING, flexible
	- - - - - -			-		coupling includes:
	213-0075-00			4		SCREW, set, 4-40 x 0.094 inch, HSS
	376-0049-00			1		COUPLING, plastic
	354-0251-00			2		RING, coupling
-47	361-0136-00			1		SPACER, sprocket
-48	214-0520-00	B010100	B129999	1		SPROCKET, tape
	214-0520-01	B130000		1		SPROCKET, tape
	- - - - - -					mounting hardware: (not included w/sprocket)
	213-0075-00			2		SCREW, set, 4-40 x 0.094 inch, HSS (not shown)
-49	214-0804-00	B010100	B129999	1		SPOOL EXTENSION
	214-0804-02	B1 30000		4		SPOOL EXTENSION
	- - - - - -					mounting hardware: (not included w/spool extension)
	213-0075-00			1		SCREW, set, 4-40 x 0.094 inch, HSS (not shown)
-50	214-0805-00			4		SPOOL
	211-1011-00	XB120000		3		WASHER, plastic (not shown)
	213-0075-00	XB120000		3		SCREW, set, 4-40 x 3/32 inch, HSS (not shown)
-51	331-0179-00			1		DIAL TAPE
-52	386-1181-00			1		PLATE, dial window mounting
	- - - - - -			-		mounting hardware: (not included w/plate)
-53	211-0069-00			2		SCREW, 2-56 x 1/8 inch, PHS
-54	386-1131-00			1		PLATE, dial window
	- - - - - -					mounting hardware: (not included w/plate)
-55	214-0565-00			4		FASTENER, press
	- - - - - -			-		mounting hardware: (not included w/dial assembly)
	210-0004-00			4		LOCKWASHER, internal, #4
-56	210-0012-00			4		SCREW, 4-40 x 0.375 inch, PHS
-57	384-0425-00			1		ROD, coupling
	- - - - - -			-		mounting hardware: (not included w/rod)
-58	213-0075-00			4		SCREW, set, 4-40 x 0.094 inch, HSS
-59	260-0821-00			1		SWITCH, lever—BAND SWITCH
	- - - - - -			-		mounting hardware: (not included w/switch)
	210-053-00			2		LOCKWASHER, split, #2
-60	210-0405-00			2		NUT, hex., 2-56 x 3/16 inch
-61	337-0880-00			1		SHIELD, switch
	- - - - - -			-		mounting hardware: (not included w/shield)
-62	211-0062-00			1		SCREW, 2-56 x 5/16 inch, RHS
	210-0053-00			1		LOCKWASHER, split, #2
-63	210-0405-00			1		NUT, hex., 2-56 x 3/16 inch

FIG. 5 TIME/DIV SWITCH & OSCILLATOR ASSEMBLIES *(cont)*

Fig. & Index No.	Tektronix Part No.	Serial/Model No. Eff	Serial/Model No. Disc	Qty	Description
					1 2 3 4 5
5-64	407-0294-00			1	BRACKET, support
-65	407-0295-00			1	BRACKET, support
	. . . . .				mounting hardware: (not included w/bracket)
-66	213-0004-00			2	SCREW, set, 6-32 x 3/16 inch, HSS
-67	211-0504-00			2	SCREW, 6-32 x 1/4 inch, PHS
-68	210-0006-00			2	LOCKWASHER, internal, #6
-69	131-0391-00			4	CONNECTOR, coaxial, 1 contact
-70	386-1135-00			1	PLATE, mounting
	. . . . .			-	mounting hardware: (not included w/assembly)
	337-1015-00	XB1 10000		1	SHIELD, oscillator wraparound (not shown)
	211-0133-00			1	SCREW, 4-40 x 0.25 inch, Socket HS (not shown)
-71	210-0586-00			2	NUT, keps, 4-40 x 1/4 inch
	211-0507-00			2	SCREW, 6-32 x 5/16 inch, PHS (not shown)
-72	337-0910-00	B01 0000	B029999	1	SHIELDING GASKET
	337-0910-01	B030000		1	SHIELDING GASKET
-73	670-0523-00	B0101 00	B150739X	1	ASSEMBLY, circuit board—OSCILLATOR CONNECTOR
	. . . . .				assembly includes:
	388-0816-00			1	BOARD, circuit
-74	214-0506-00			1	PIN, connector, male
-75	179-1099-00			1	CABLE HARNESS
	. . . . .			-	cable harness includes:
-76	131-0371-00			2	CONNECTOR, single contact, female
-77	77132-0014-00			1	SLEEVE
	. . . . .			-	mounting hardware: (not included w/assembly)
-78	211-0116-00			2	SCREW, sems, 4-40 x 5/16 inch, PHS
-79	. . . . .			1	ASSEMBLY, cable, 11 inches (J40A to J14) (see Fig. 3
	. . . . .			-	IF CHASSIS & PHASE LOCK ASSEMBLY)
-80	. . . . .			1	ASSEMBLY, cable, 5 1/2 inches (J40B to J1 160) (see Fig. 3
	. . . . .			-	IF CHASSIS & PHASE LOCK ASSEMBLY)
-81	. . . . .			1	ASSEMBLY, cable, 12 inches (J51A to J65) (see Fig. 1
	. . . . .			-	FRONT)
-82	. . . . .			1	ASSEMBLY, cable, 9 inches (J41 B to J1 150) (see Fig. 3
	. . . . .				IF CHASSIS & PHASE LOCK ASSEMBLY)
-83	. . . . .			1	ASSEMBLY, cable, 9 inches (J42A to J45) (see Fig. 3
	. . . . .				IF CHASSIS & PHASE LOCK ASSEMBLY)
-84	. . . . .			1	ASSEMBLY, cable, 9 inches (J42B to J1 140) (see Fig. 3
	. . . . .				IF CHASSIS & PHASE LOCK ASSEMBLY)
-85	. . . . .				ASSEMBLY, cable, 5 1/2 inches (J71 to J34) (see Fig. 3
	. . . . .			-	IF CHASSIS & PHASE LOCK ASSEMBLY)
-86	. . . . .			1	ASSEMBLY, cable, 10 inches (J72 to J69) (see Fig. 1
	. . . . .			-	FRONT)
-87	. . . . .			1	ASSEMBLY, cable, 7 inches (J73 to J52) (see Fig. 3
	. . . . .			-	IF CHASSIS & PHASE LOCK ASSEMBLY)
-88	. . . . .			1	ASSEMBLY, cable, 4 1/2 inches (J75 to J80) (see Fig. 3
	. . . . .				IF CHASSIS & PHASE LOCK ASSEMBLY)

©1

FIG. 6 CRT SHIELD ASSEMBLY

Fig. & index No.	Tektronix Part No.	Serial/Model No. Eff	Serial/Model No. Disc	Qty	1 2 3 4 5	Description
6-	626-0440-00			1		ASSEMBLY, CRT shield
	- - - - - -					assembly includes:
-1	337-0754-00			1		SHIELD, CRT
-2	- - - - - -			1		COIL
	- - - - - -			-		mounting hardware: (not included w/coil)
-3	211-0590-00	B010100	B050319	3		SCREW, 6-32 x 1/4 inch, PHS
	213-0149-00	B050320		3		SCREW, thread forming, #6 x 0.375 inch PHS
-4	348-0070-01			4		CUSHION
-5	358-0281-00			1		BUSHING, plastic
-6	343-0122-01			2		CLAMP
	- - - - - -			-		mounting hardware for each: (not included w/clamp)
-7	213-0049-00			1		SCREW, 6-32 x 5/16 inch, HHS
-8	210-0949-00			1		WASHER, flat, 9/64 ID x 1/2 inch OD
-9	343-0123-01			2		CLAMP
	- - - - - -					mounting hardware for each: (not included w/clamp)
-10	211-0590-00			2		SCREW, 6-32 x 1/4 inch, PHS
-11	343-0124-00			1		CLAMP, plastic
	- - - - - -					mounting hardware: (not included w/clamp)
-12	211-0599-00			2		SCREW, 6-32 x 3/4 inch, FIL HS
-13	220-0444-00			2		NUT, square, 6-32 x 1/4 inch
-14	352-0091-01			2		HOLDER
	- - - - - -			-		mounting hardware for each: (not included w/holder)
-15	211-0600-00			1		SCREW, 6-32 x 2 inches FIL HS
-16	220-0444-00			1		NUT, square, 6-32 x 1/4 inch
	- - - - - -			-		mounting hardware: (not included w/assembly)
-17	210-0586-00	B010100	B090439	2		NUT, keps, 4-40 x 1/4 inch
	220-0413-00	B090440		2		NUT, hex., 4-40 x 3/16 x 0.562 inch long
-18	212-0004-00			2		SCREW, 8-32 x 5/16 inch, PHS
	210-0858-00			2		WASHER, flat, 11/64 ID x 1/2 inch OD (not shown)
-19	136-0205-00			1		SOCKET, graticule lamp
-20	175-0691-00			1		WIRE, CRT lead, brown stripe
	175-0692-00			1		WIRE, CRT lead, red stripe
	175-0693-00			1		WIRE, CRT lead, green stripe
	175-0694-00			1		WIRE, CRT lead, blue stripe
	- - - - - -			-		each wire includes:
-21	131-0371-00			1		CONNECTOR, single contact, female
-22	131-0049-00			1		CONNECTOR, cable end, female

FIG. 7 CABINET ASSEMBLY AND HANDLE

Fig. & Index No.	Tektronix Part No.	Serial/Model No. Eff	Serial/Model No. Disc	Qty	1 2 3 4 5	Description
7-1	437-0088-01			1		ASSEMBLY, cabinet
	- - - - - -					assembly includes:
-2	348-0079-00			2		FOOT, plastic cap
-3	348-0078-00			2		FOOT, plastic
	- - - - - -					mounting hardware for each: (not included w/foot)
-4	212-0022-00			1		SCREW, 8-32 x 1 1/2 inches, RHS
-5	210-1018-00			1		WASHER, flat, 0.203 ID x 0.937 inch OD
-6	210-0458-00			1		NUT, keps, 8-32 x 1 1/32 inch
-7	348-0079-00			2		FOOT, plastic cap
-8	348-0078-00			2		FOOT, plastic
	- - - - - -					mounting hardware for each: (not included w/foot)
-9	212-0022-00			1		SCREW, 8-32 x 1 1/2 inches, RHS
-10	210-1018-00			1		WASHER, flat, 0.203 ID x 0.937 inch OD
-11	214-0808-00			1		NUT, guide, hex., 8-32 x 0.75 inch long
-12	214-0766-00			2		THUMBSCREW, 0.250-20 x 0.50 x 1.125 inches long
	- - - - - -					mounting hardware for each: (not included w/thumbscrew)
-13	210-1017-00			1		WASHER, plastic, 0.281 ID x 0.875 inch OD
-14	354-0299-00			1		RING, retaining
-15	348-0025-00	B0101 00	B049999	2		FOOT, plastic
	348-0025-01	B050000		2		FOOT, plastic
	- - - - - -					mounting hardware for each: (not included w/foot)
-16	211-0507-00			1		SCREW, 6-32 x 5/16 inch, PHS
-17	220-0479-00	B0101 00	B049999	1		NUT, plastic
	210-0437-00	B050000		1		NUT, speed, #6
-18	348-0025-00	B0101 00	B049999	2		FOOT, plastic
	348-0025-01	B050000		2		FOOT, plastic
	220-0479-00	B0101 00	B049999	2		NUT, plastic
	210-0437-00	B050000		2		NUT, speed, #6
-19	367-0069-00			1		HANDLE, carrying
	- - - - - -					mounting hardware: (not included w/handle)
-20	211-0512-00			4		SCREW, 6-32 x 1/2 inch, 100° csk, FHS
-21	214-0516-00			2		SPRING, handle index
-22	214-0513-00			2		INDEX, handle ring
-23	214-0515-00			2		INDEX, handle hub
	- - - - - -			-		mounting hardware for each: (not included w/index)
-24	213-0139-00			1		SCREW, 10-24 x 3/8 inch, HHS
-25	210-0805-00			1		WASHER, flat, 0.204 ID x 0.438 inch OD

APPENDIX A

BASIC ISSUE ITEMS LIST

Basic issue items list will be published at a later date.

APPENDIX B

MAINTENANCE ALLOCATION CHART

Section I. INTRODUCTION

B-1. General

This Maintenance Allocation Chart designates overall responsibility for the performance of maintenance functions on the identified end item or component. The implemeatation of field maintenance tasks upon this end item or component will be consistent with the assigned maintenance operations.

B-2. Maintenance Functions.

Maintenance functions will be limited to and defined as follows:

a. Inspect. To determine serviceability of an item by comparing its physical, mechanical and electrical characteristics with established standards.

b. Test. To verify serviceability and to detect electrical or mechanical failure by use of test equipment.

c. Service. To clean, to preserve, to charge and to add fuel, lubricants, cooling agents, and air. If it is desired that elements, such as painting and lubricating, be defined separately, they may be so listed.

d. Adjust. To rectify to the extent necessary to bring into proper operating range.

e. Align. To adjust specified variable elements of an item to bring to optimum performance.

f. Calibrate. To determine the corrections to be made in the readings of instruments or test equipment used in precise measurement. Consists of the comparison of two instruments, one of which is a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared with the certified standard.

g. Install. To set up for use in an operational environment such as an emplacenment, site, or vehicle.

h. Replace. To replace unserviceable items with serviceable like items.

i. Repair. Those maintenance operations necessary to restore an item to serviceable condition through correction of material damage or a specific failure. Repair may be accomplished at each category of maintenance.

j. Overhaul. Normally, the highest degree of maintenance performed by the Army in order to minimize tine work in process is consistent with quality and economy of operation. It consists of that maintenance necessary to restore an item to completely serviceable condition as prescribed by maintenance standards in technical publications for each item of equipment. Overhaul normally does not return an item to like new, zero mileage, or zero hour condition.

k. Rebuild. The highest degree of materiel maintenance. It consists of restoring equipment as nearly as possible to new condition in accordance with original manufacturing standards. Rebuild is performed only when required by operational considerations or other paramount factors and then only at the depot maintenance category. Rebuild reduces to zero the hours or miles the equipment, or component thereof, has been in use.

l. Symbols. The uppercase letter placed in the appropriate column indicates the lowest level at which that particular maintenance function is to be performed.

B-3. Explanation of Columns.

Listed below is an explanation of the columns shown in the maintenance allocation chart:

a. Column 1, Group Number. Column 1 lists group numbers, the purpose of which is to identify components, assemblies, subassemblies and modules with the next higher assembly.

b. Column 2, Functional Group. Column 2 lists the noun names of components, assemblies, subassemblies and modules on which maintenance is authorized.

c. Column 3, Maintenance Functions. Column 3 lists the lowest level at which that particular maintenance function is to be performed.

d. Column 4,Tools and Equipment. This column shall be used to specify, by code, those tools and test equipment required to perform the designated function.

e. Column 5, Remarks. Self-explanatory.

Nomenclature of End Item or Component	SPECTRUM ANALYZER TEKTRONIX 491												
SECTION II - MAINTENANCE ASSIGNMENT													
Group Number	Component Assembly Nomenclature	Maintenance Function c										Tools and Equipment	Remarks
		Inspect	Test	Service	Adjust	Align	Calibrate	Install	Replace	Repair	Overhaul	Rebuild	
a	b												d	e
	SPECTRUM ANALYZER	F	F	F	F	-	F	-	-	F	-	-		Repair and calibration to be performed in AN/TSM-55Y5 Maintenance Calibration Equipment Shelter

LEGEND:
C - Operator/Crew
O - Organizational Maint.
F - Direct Support Maint.
H - General Support Maint.
D - Depot Maint.

APPENDIX C

REPAIR PARTS LIST

C-1. This appendix provides a list of repair parts for maintenance support of the equipment. The parts along with their descriptions are listed in table C-1 below.

C-2. Instructions for requisitioning parts not identified by Federal Stock Numbers require the following information be furnished to the Supply Officer:

a. Manufacturer's Federal Supply Code Number

b. Manufacturer’s identification number

c. Manufacturer’s nomenclature

d. My other information as listed on parts list that will aid in identification of the item being requisitioned.

C-3. If DD Form 1348 is used, fill in all blocks except 4, 5, 6 and Remarks field in accordance with AR 725-50. Complete Form as follows:

a. In Blocks 4, 5 and 6 list Manufacturer’s Federal Supply Code Number followed by a colon and the Manufacturer’s part number.

b. Complete Remarks Field as follows: Nomenclature of the repair part and any other identification to assist Supply Officer in procurement.

C-4. Report of errors, omissions and recommendation for improving this publication by the individual user is encouraged. Reports should be submitted on DA Form 2028 (Recommended Changes to DA Publications) and forwarded direct to Commanding Officer, Frankford Arsenal, ATTN: AMSWE-SMF-W3100, Philadelphia, Pa. 19137.

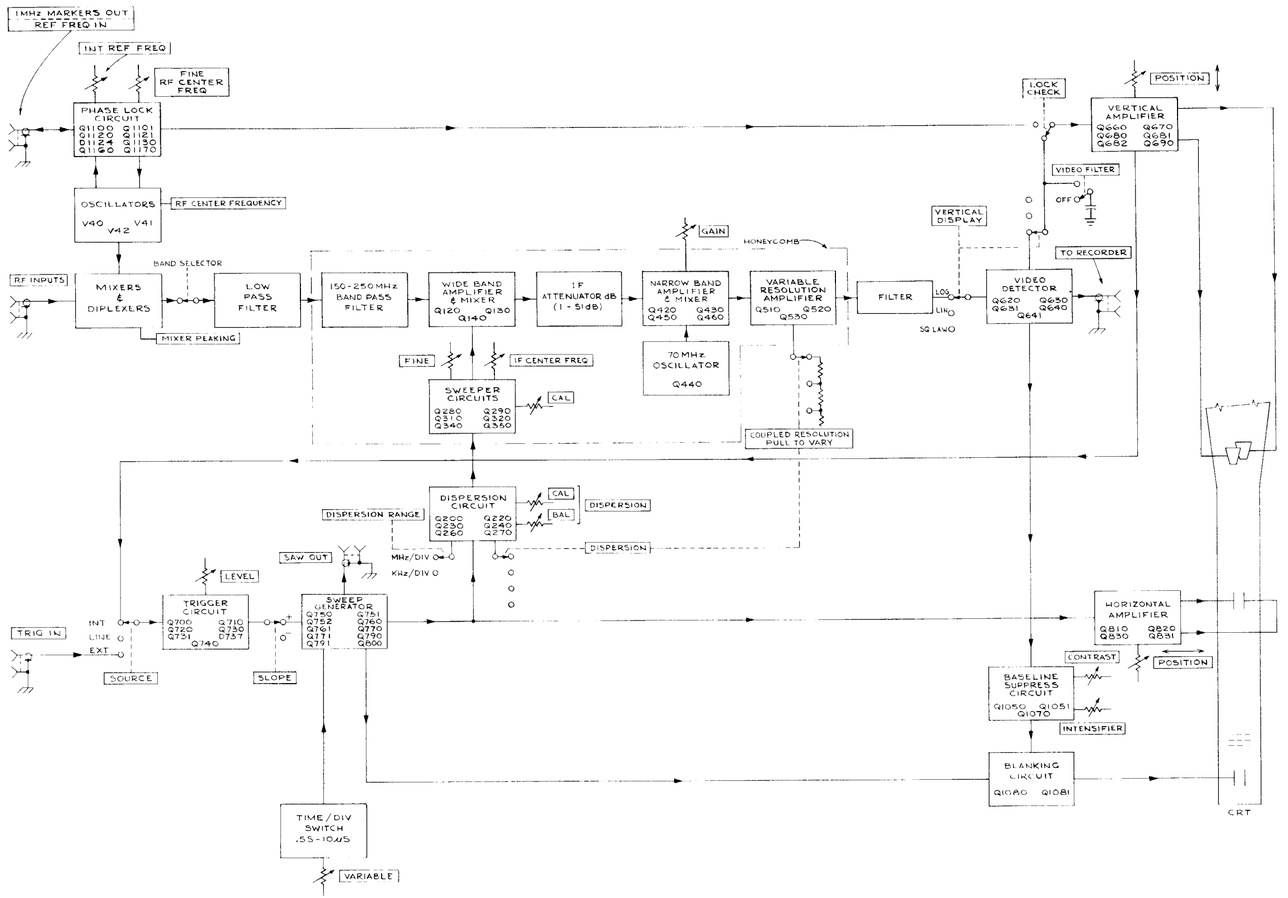
Table C-1. Repair Parts List

Nomenclature	Mfg Part No.	Mfg Code No.	Qty	FSN
BULB INCAND	150-0045-00	80009	1	6240-933-5821
BULB INCAND	150-0059-00	80009	1	6240-941-2683
XSTR SP8481	151-0104-00	80009	1	5961-923-9773
XSTR SIL 40V B	151-0108-00	80009	1	5961-759-9392
XSTR 2N3053	151-0136-00	80009	1	
XSTR SIL 2N3055	151-0140-00	80009	1	5961-724-2138
XSTR SIL NPN	151-0148-00	80009	1	5961-824-4173
XSTR 2N3441	151-0149-00	80009	1	
XSTR SIL 2N3440	151-0150-00	80009	3	
XSTR 2N2923	151-0153-00	80009	1	5961-121-9224
XSTR SIL NPN	151-0157-00	80009	1	5961-472-5667
XSTR SIL 2N3478	151-0173-00	80009	1	
XSTR SIL 2N3662	151-0175-00	80009	2	
XSTR SILRA 2554	151-0181-00	80009	2	
XSTR SIL 2N3906	151-0188-00	80009	4	5961-457-5187
XSTR 2N3904 S 2NPH	151-0190-00	80009	2	
XSTR SIL MPS 6521	151-0192-00	80009	5	5961-879-7461
XSTR SI PNPTO-92	151-0199-00	80009	1	
XSTR SI NPN 2N3415	151-0207-00	80009	1	
XSTR SI RCA 40235	151-0230-00	80009	1	
XSTR SI TO-18	151-1007-00	80009	1	
DIODE GER 6075	152-0075-00	80009	1	5961-908-7598
DIODE GA-AS PAIR	152-0152-00	80009	1	5961-787-3672
DIODE SIL 10MA	152-0185-00	80009	1	5961-936-7604
XSTR SI SELECTED	153-0545-00	80009	1	
CRT T-4910-7-1	154-0502-00	80009	1	
TUBE SEL 1641	154-0506-00	80009	1	
TUBE ELECTRON ASSY	154-0510-00	80009	1	
CRYSTAL 5 MC	158-0019-00	80009	1	
CRYSTAL 70 MC	158-0024-00	80009	1	
CRYSTAL 1.0 MHZ	158-0025-00	80009	1	
FUSE 1. A FAST	159-0022-00	80009	5	
FUSE .5 A FAST	159-0025-00	80009	5	5920-933-5439
CAP CER .01 UF	283-0003-00	80009	1	5910-801-1005
RES COMP 1/4W 10	315-0100-00	80009	1	
RES COMP 1/4W 100	315-0101-00	80009	2	
RES COMP 1/4W 1K	315-0102-00	80009	1	
RES COMP 1/4W 10K	315-0103-00	80009	1	
RES COMP 1/4W 100K	315-0104-00	80009	1	
RES PREC 1/8W 4.02K	321-0251-00	80009	1	
RES PREC 1/8W 100K	321-0385-00	80009	1	

SECTION 9. DIAGRAMS

MECHANICAL PARTS LIST ILLUSTRATIONS

ACCESSORIES



TYPE 491 SPECTRUM ANALYZER

A1

BLOCK DIAGRAM 1066

IMPORTANT

VOLTAGE AND WAVEFORM CONDITIONS

Circuit voltages measured with a DC coupled oscilloscope. All readings in volts. Readings are with respect to chassis ground unless otherwise noted.

Waveforms shown are actual waveform photographs taken with a Tektronix Oscilloscope Camera System.

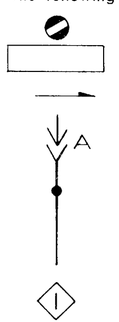
Voltages and waveforms on the schematics (shown in blue) are not absolute and may vary between instruments. Any apparent differences between voltage levels measured and those shown on the waveforms may be due to circuit loading of the measuring device.

The waveforms were obtained with the Analyzer controls set as follows unless otherwise noted on the individual diagrams:

Signals Applied	200 MHz
DISPERSION RANGE	MHz/DIV
DISPERSION-COUPLED RESOLUTION	500
IF ATTENUATOR dB	OFF
IF CENTER FREQ	Controls centered (000)
GAIN	Midrange
TIME/DIV	20 ms
SOURCE	LINE
LEVEL	Adjust for a triggered display
VIDEO FILER	OFF
INTENSIFIER	OFF
POSITION	Adjusted for a centered trace at bottom graticule line.

Schematic Symbols

The following symbols are used on the schematics:



Screwdriver adjustment

Front-panel control or connector.

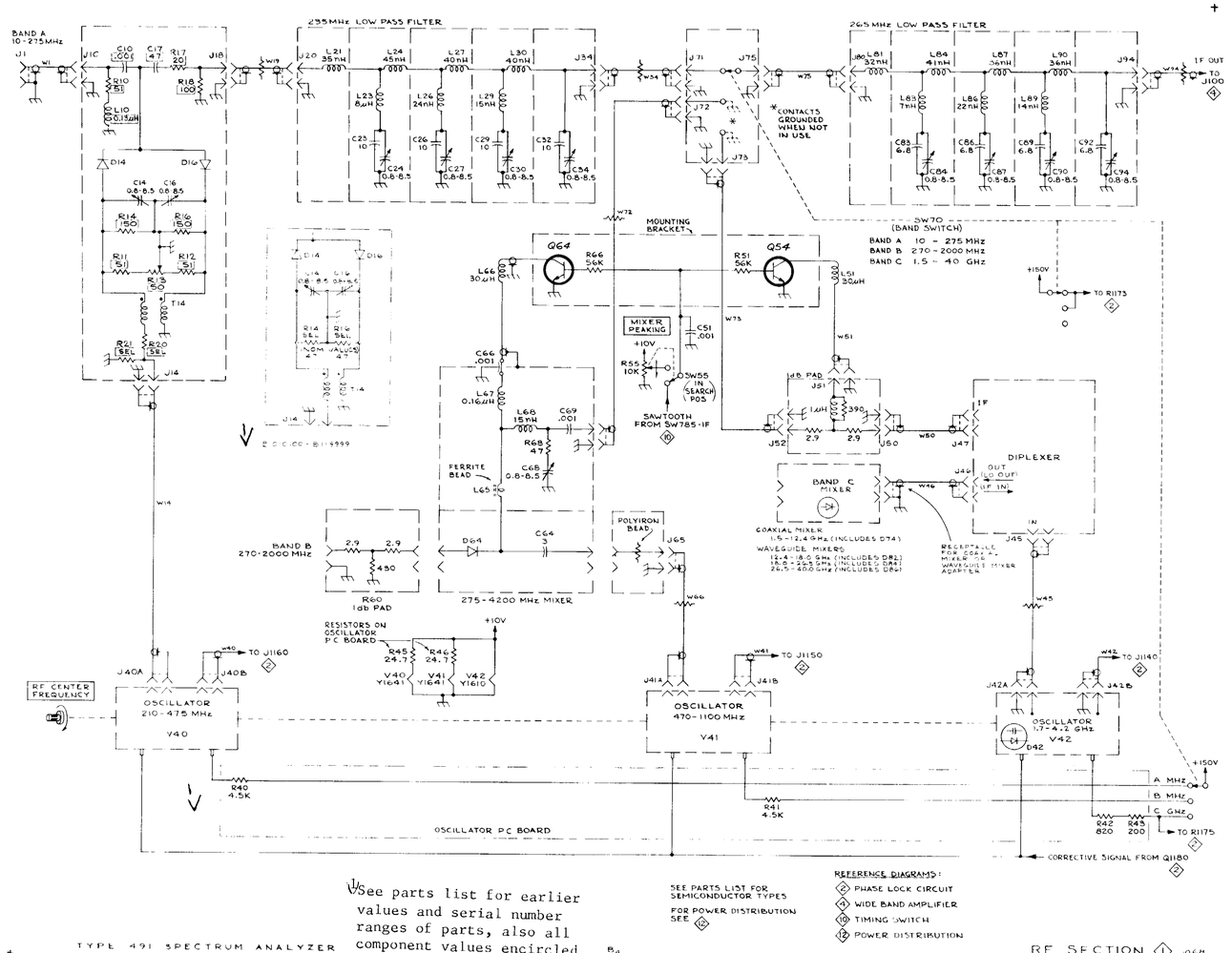
Clockwise control rotation in direction of arrow.

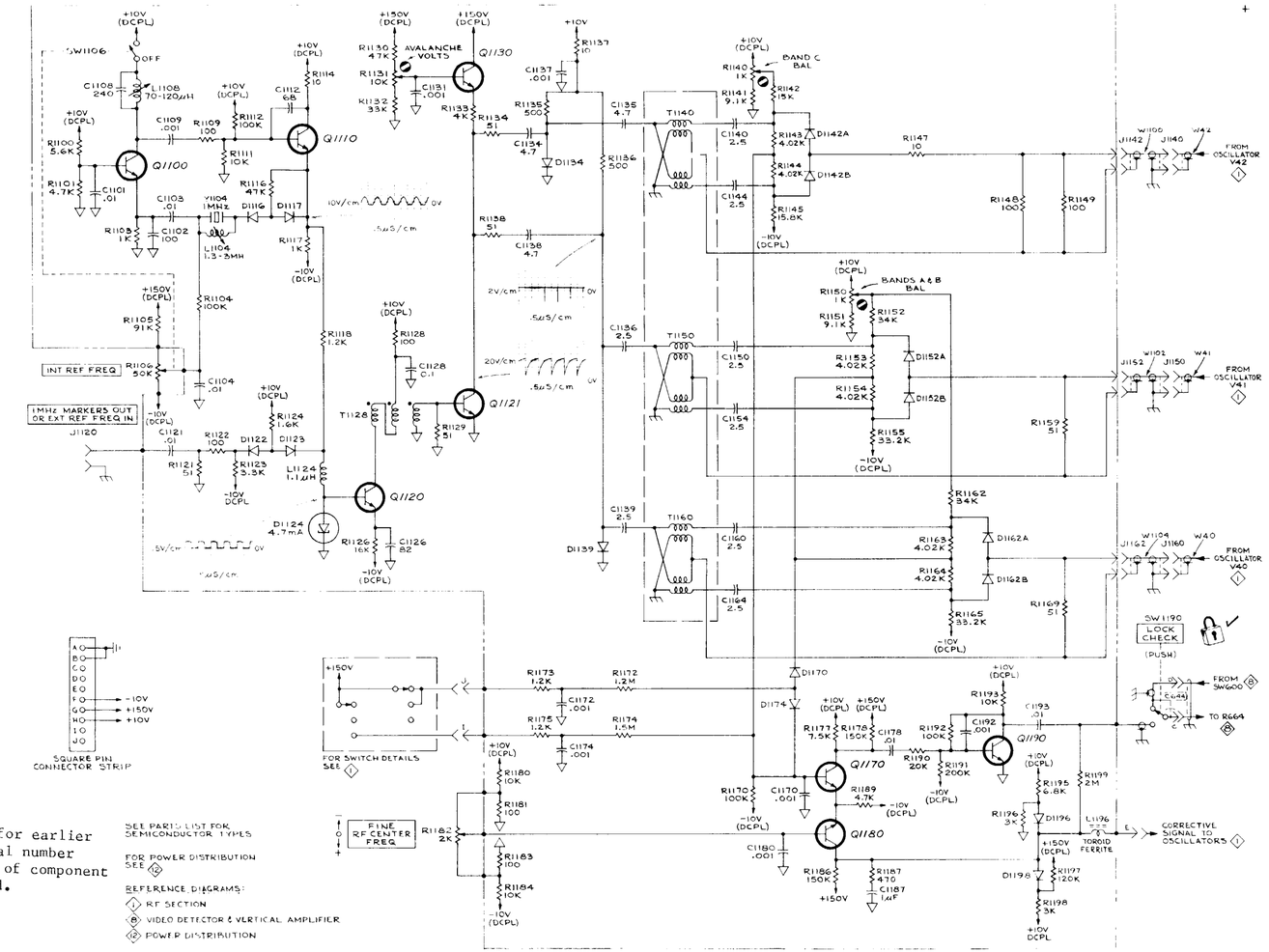
Connection made at indicated pin on etched-wiring board.

Connection soldered to etched-wiring board.

Blue line encloses components located on etched-wiring board.

Input from, or output to indicated schematic.





See parts list for earlier values and serial number ranges of parts of component values encircled.

SEE PARTS LIST FOR SEMICONDUCTOR TYPES

FOR POWER DISTRIBUTION SEE 12

REFERENCE DIAGRAMS:

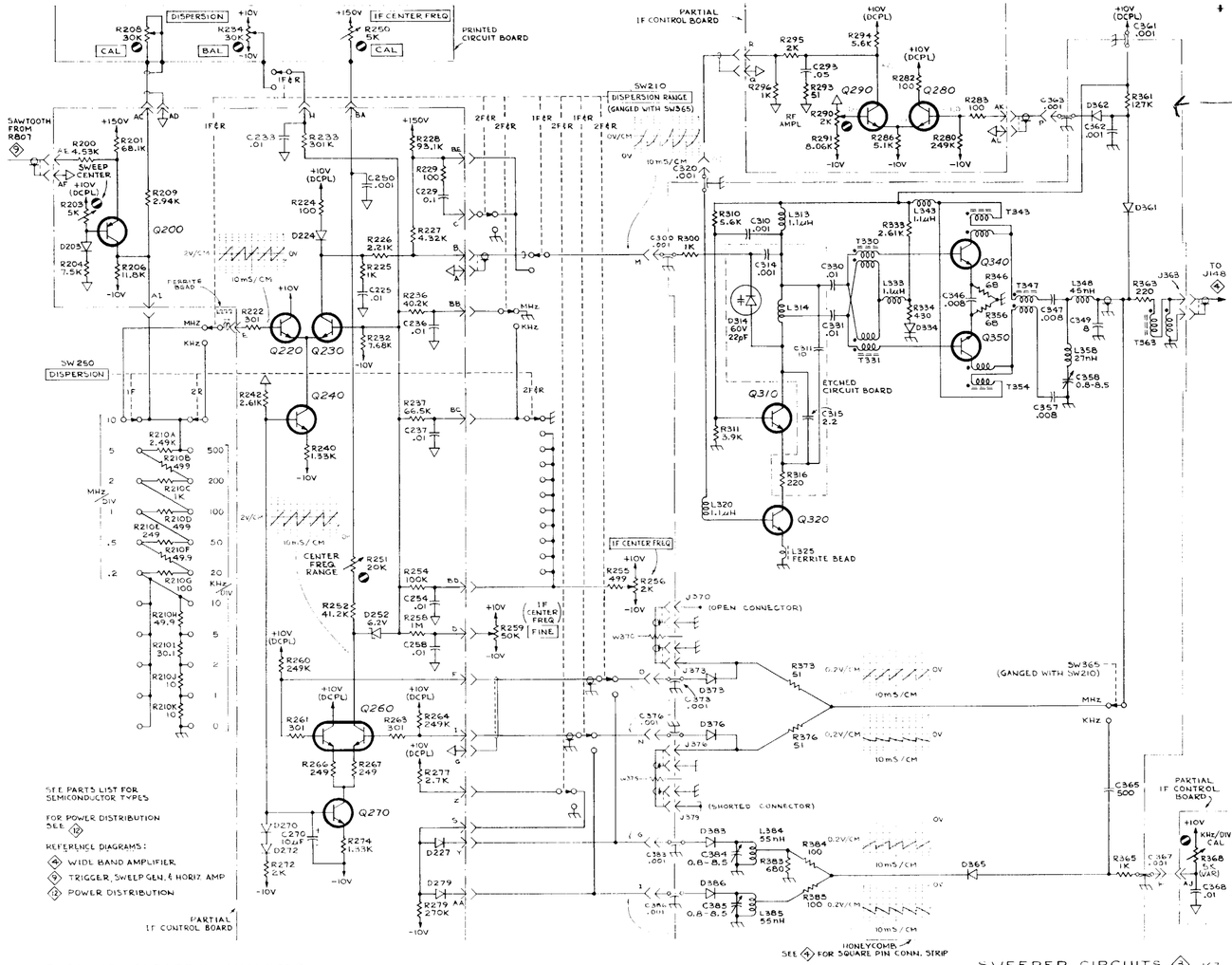
1 RF SECTION

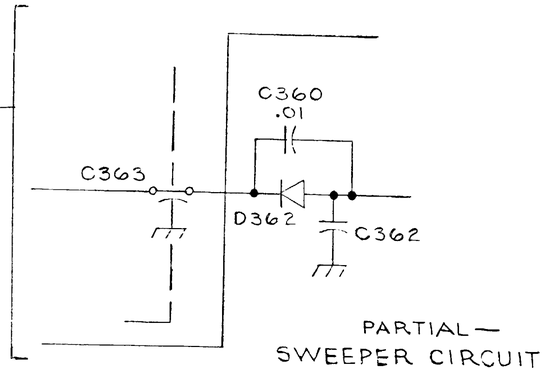
8 VIDEO DETECTOR & VERTICAL AMPLIFIER

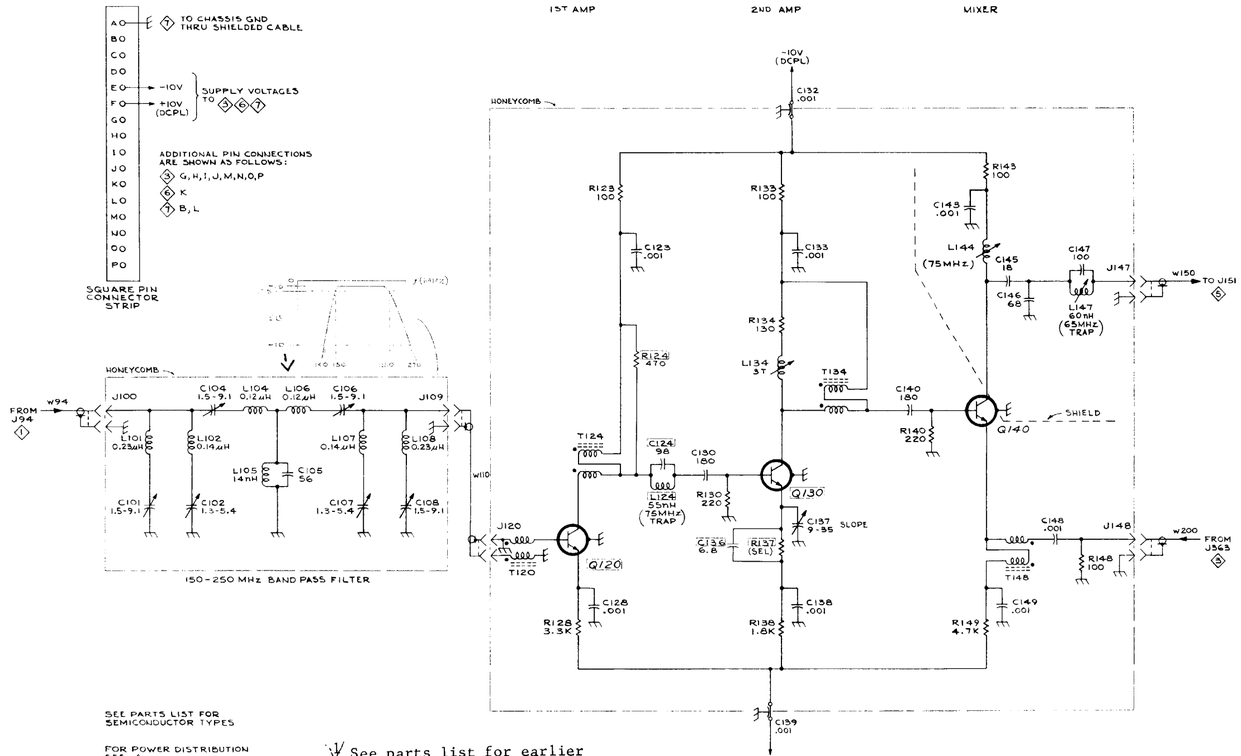
12 POWER DISTRIBUTION

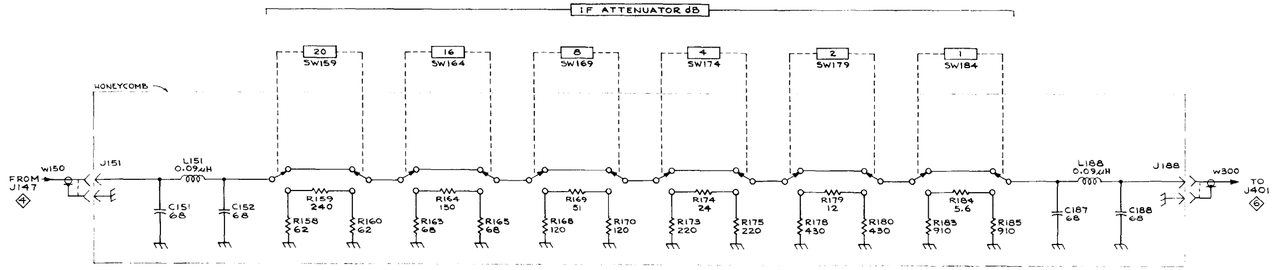
TYPE 491 SPECTRUM ANALYZER

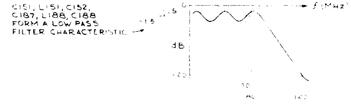
PHASE LOCK CIRCUIT 2 MRH 16M


DISPERSION
CAL
BAL
IF CENTER FREQ
PRINTED CIRCUIT BOARD
PARTIAL IF CONTROL BOARD
SW210 DISPERSION RANGE (GANGED WITH SW365)
SAWTOOTH FROM R807
SWEEP CENTER
FERRITE BEAD
ETCHED CIRCUIT BOARD
SW250 DISPERSION
CENTER FREQ RANGE
IF CENTER FREQ FINE
(OPEN CONNECTOR)
(SHORTED CONNECTOR)
SW365 (GANGED WITH SW210)
HONEYCOMB
SEE 4 FOR SQUARE PIN CONN. STRIP
TO J148
SEE PARTS LIST FOR SEMICONDUCTOR TYPES
FOR POWER DISTRIBUTION SEE 12
REFERENCE DIAGRAMS:
4 WIDE BAND AMPLIFIER
9 TRIGGER, SWEEP GEN, & HORIZ AMP
12 POWER DISTRIBUTION
PARTIAL IF CONTROL BOARD

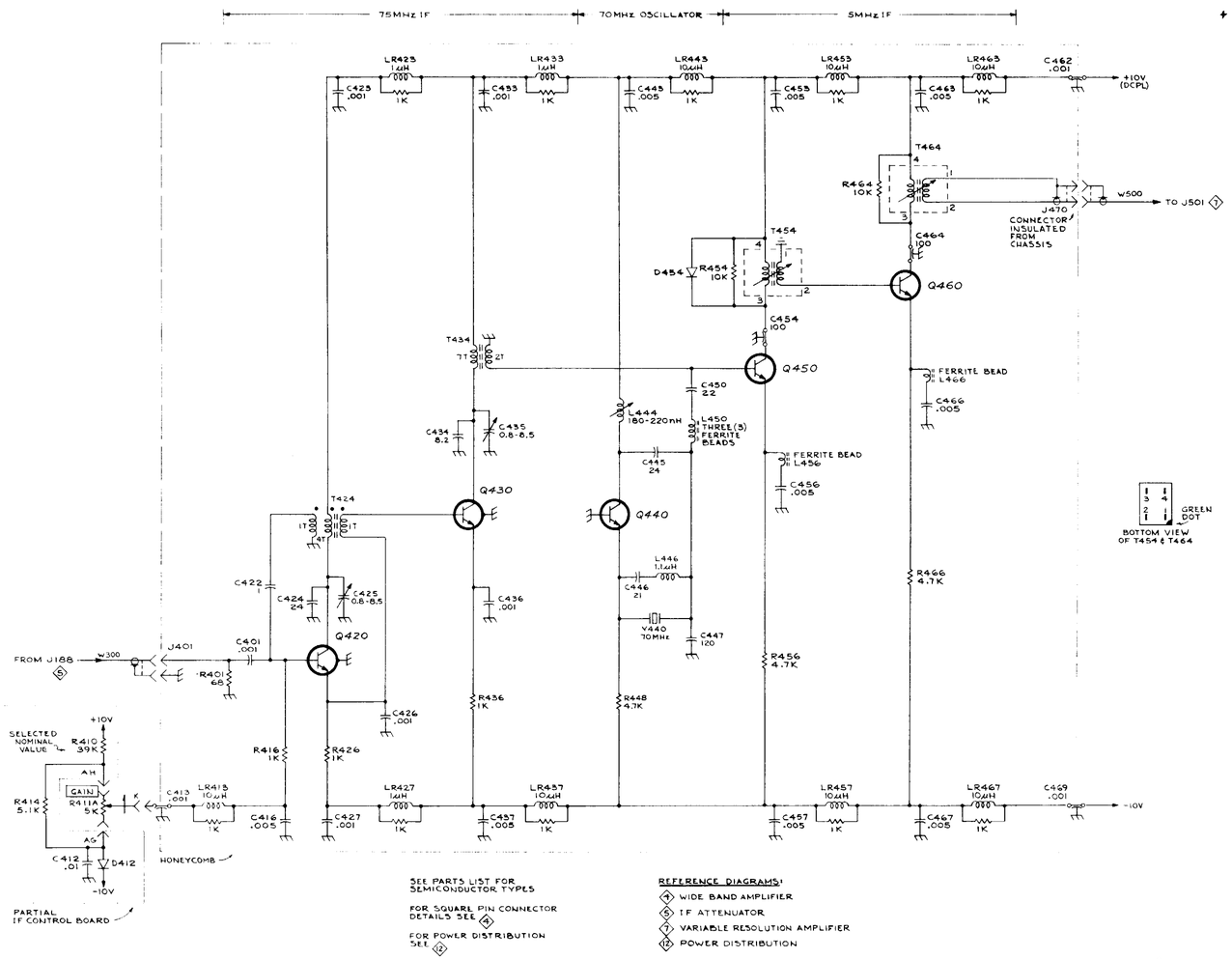

C360 .01
C363
D362
C362
PARTIAL — SWEEPER CIRCUIT

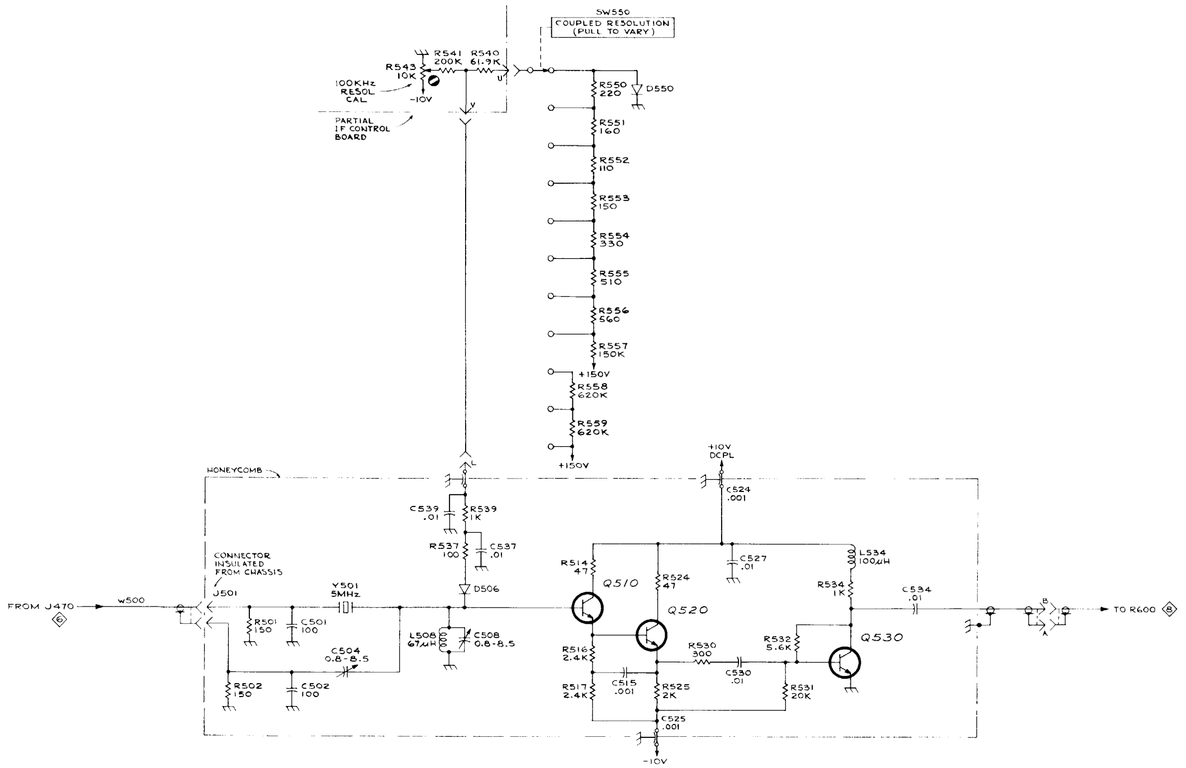

A O
B O
C O
D O
E O
F O
G O
H O
I O
J O
K O
L O
M O
N O
O O
P O
SQUARE PIN CONNECTOR STRIP
7 TO CHASSIS GND THRU SHIELDED CABLE
-10V
+10V (DCPL)
SUPPLY VOLTAGES TO 3 6 7
ADDITIONAL PIN CONNECTIONS ARE SHOWN AS FOLLOWS:
3 G, H, I, J, M, N, O, P
6 K
7 B, L
HONEYCOMB
FROM J94
W94
J100
L101 0.25μH
C101 1.5-9.1
L102 0.14μH
C102 1.5-5.4
C104 1.5-9.1
L104 0.12μH
L105 14nH
C105 56
L106 0.12μH
C106 1.5-9.1
C107 1.5-5.4
L107 0.14μH
L108 0.23μH
C108 1.5-9.1
J109
W110
150-250 MHz BAND PASS FILTER
1ST AMP
2ND AMP
MIXER
-10V (DCPL)
C132 .001
R128 100
R133 100
R143 100
C123 .001
C133 .001
C143 .001
L144 (75MHz)
C145 18
C146 68
C147 100
L147 60nH (65MHz TRAP)
J147
W150
TO J151
R134 130
L134 3T
R124 470
T134
C140 180
SHIELD
Q140
T124
C124 98
L124 55nH (75MHz TRAP)
C130 180
R130 220
Q130
R140 220
C137 9-35 SLOPE
C136 6.8
R137 (SEL)
J120
T120
Q120
C148 .001
J148
W200
FROM J363
R148 100
T148
C149 .001
C128 .001
C138 .001
R128 3.3K
R138 1.8K
R149 4.7K
C139 .001
-10V
See parts list for earlier values and serial number ranges of parts, also component values encircled are included.
SEE PARTS LIST FOR SEMICONDUCTOR TYPES
FOR POWER DISTRIBUTION SEE 12
REFERENCE DIAGRAMS:
1 RF SECTION
3 SWEEPER CIRCUITS
4 I.F. ATTENUATORS
6 NARROW BAND AMPLIFIER
7 VARIABLE RESOLUTION AMPLIFIER
12 POWER DISTRIBUTION





REFERENCE DIAGRAMS:
- ④ WIDE BAND AMPLIFIER
- ⑥ NARROW BAND AMPLIFIER


75MHz IF
70MHz OSCILLATOR
5MHz IF
+10V (DCPL)
-10V
FROM J188
W300
J401
R401 68
C401 .001
Q420
C422 1
C424 24
C425 0.8-8.5
T424
Q430
C434 8.2
C435 0.8-8.5
T434
Q450
C450 22
L444 180-220nH
L450 THREE(3) FERRITE BEADS
C445 24
Q440
L446 1.1uH
C446 21
Y440 70MHz
C447 120
C436 .001
R436 1K
R448 4.7K
R456 4.7K
C426 .001
R426 1K
R416 1K
C416 .005
C427 .001
C437 .005
C457 .005
C467 .005
C423 .001
C433 .001
C443 .005
C453 .005
C463 .005
LR423 1uH
LR433 1uH
LR443 10uH
LR453 10uH
LR463 10uH
LR427 1uH
LR437 10uH
LR457 10uH
LR467 10uH
C462 .001
C469 .001
T464
R464 10K
W500
TO J501
J470
CONNECTOR INSULATED FROM CHASSIS
T454
D454
R454 10K
Q460
C464 120
C454 100
FERRITE BEAD L466
C466 .005
FERRITE BEAD L456
C456 .005
R466 4.7K
GREEN DOT
BOTTOM VIEW OF T454 & T464
SELECTED NOMINAL VALUE
R410 39K
AM
GAIN
R411A 5K
AG
R414 5.1K
C412 .01
D412
C413 .001
LR413 10uH
K
HONEYCOMB
PARTIAL IF CONTROL BOARD
SEE PARTS LIST FOR SEMICONDUCTOR TYPES
FOR SQUARE PIN CONNECTOR DETAILS SEE 4
FOR POWER DISTRIBUTION SEE 12
REFERENCE DIAGRAMS:
4 WIDE BAND AMPLIFIER
5 I.F. ATTENUATOR
7 VARIABLE RESOLUTION AMPLIFIER
12 POWER DISTRIBUTION



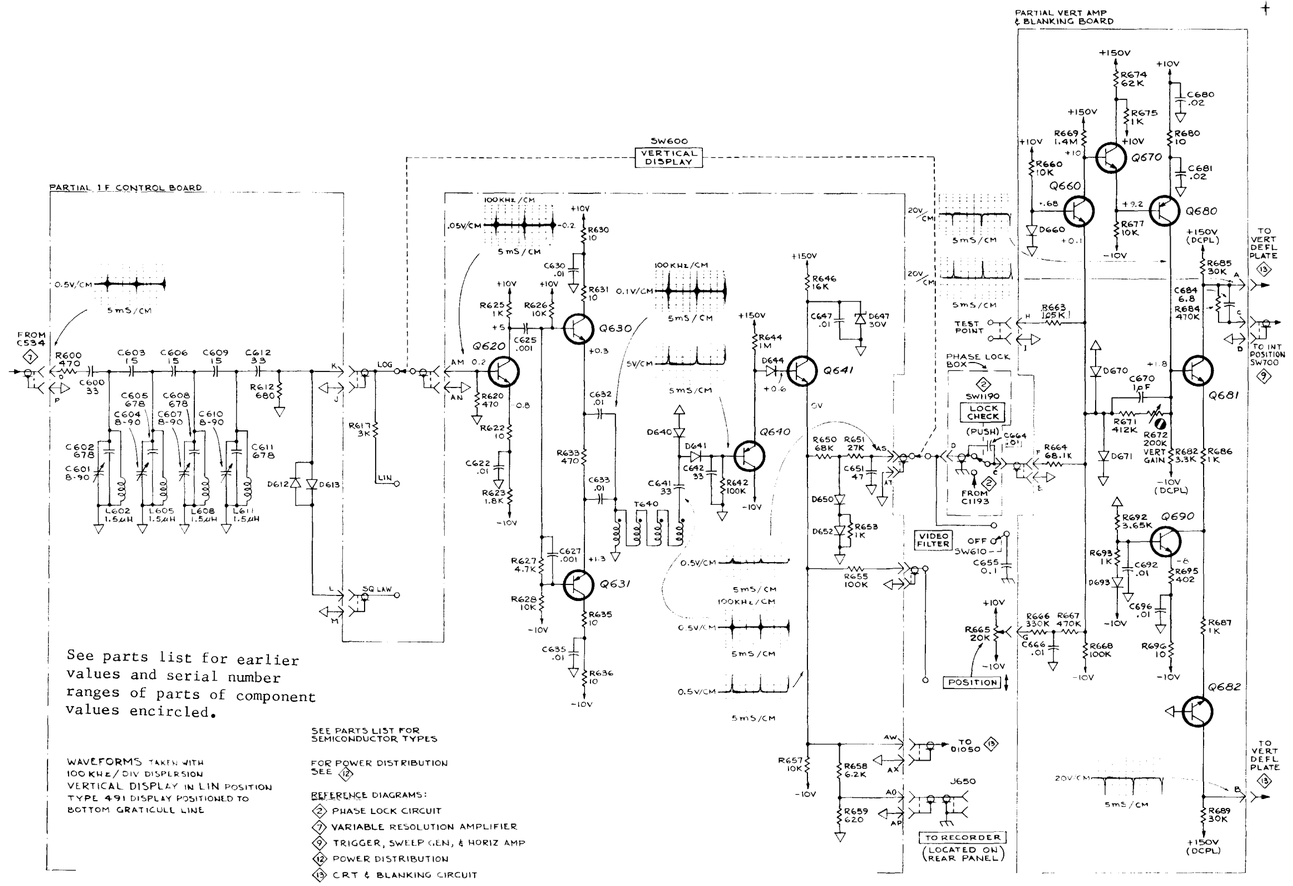
SEE PARTS LIST FOR SEMICONDUCTOR TYPES

FOR SQUARE PIN CONNECTOR DETAILS SEE ④

FOR POWER DISTRIBUTION SEE ⑫

REFERENCE DIAGRAMS:

④ WIDE BAND AMPLIFIER
⑥ NARROW BAND AMPLIFIER
⑧ VIDEO DETECTOR & VERTICAL AMPLIFIER
⑫ POWER DISTRIBUTION



See parts list for earlier values and serial number ranges of parts of component values encircled.

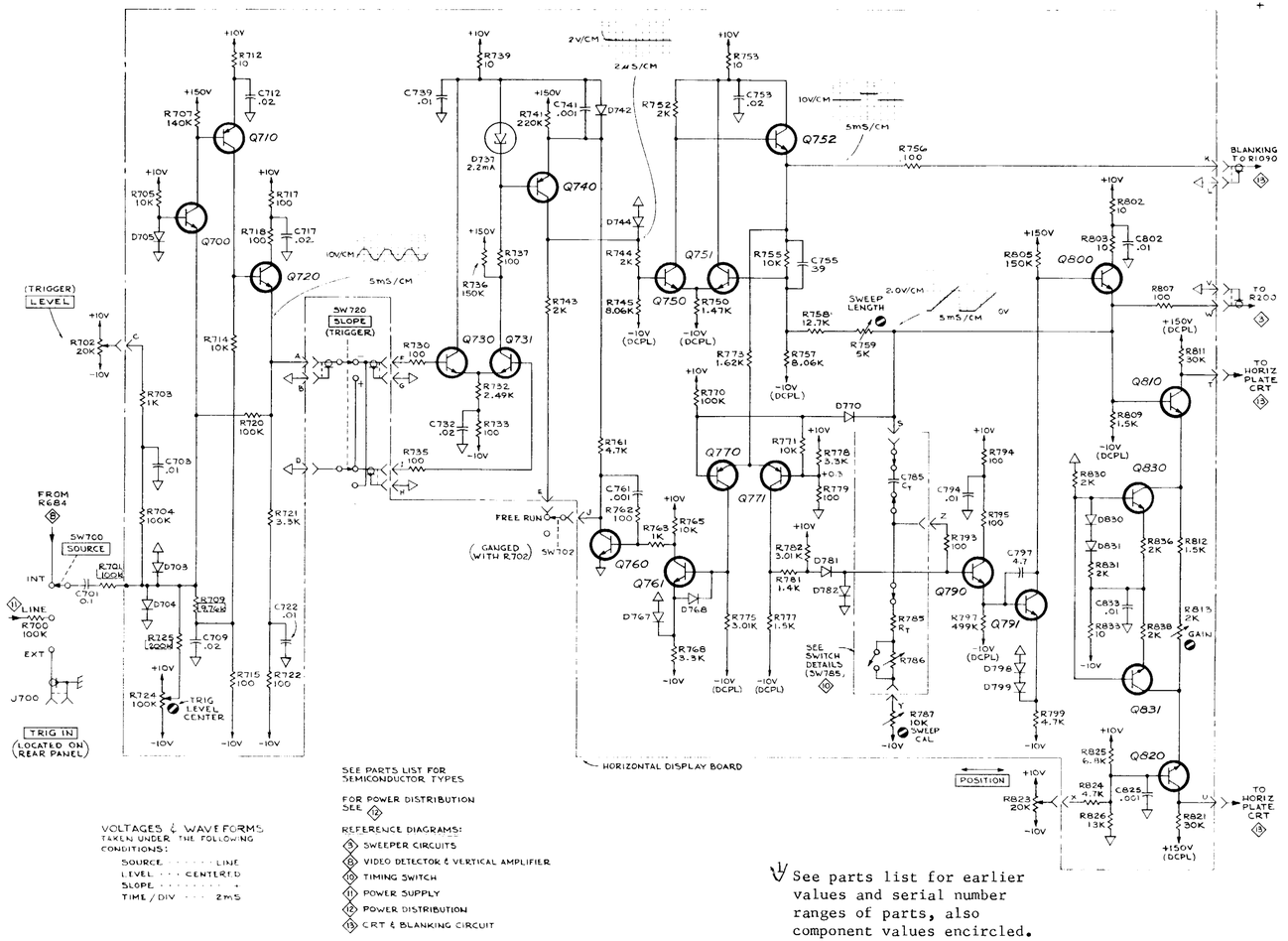
WAVEFORMS TAKEN WITH 100 KHz/DIV DISPERSION VERTICAL DISPLAY IN LIN POSITION TYPE 491 DISPLAY POSITIONED TO BOTTOM GRATICULE LINE

SEE PARTS LIST FOR SEMICONDUCTOR TYPES

FOR POWER DISTRIBUTION SEE ⑫

REFERENCE DIAGRAMS:

- ② PHASE LOCK CIRCUIT
- ⑦ VARIABLE RESOLUTION AMPLIFIER
- ⑨ TRIGGER, SWEEP GEN, & HORIZ AMP
- ⑫ POWER DISTRIBUTION
- ⑬ C.R.T. & BLANKING CIRCUIT



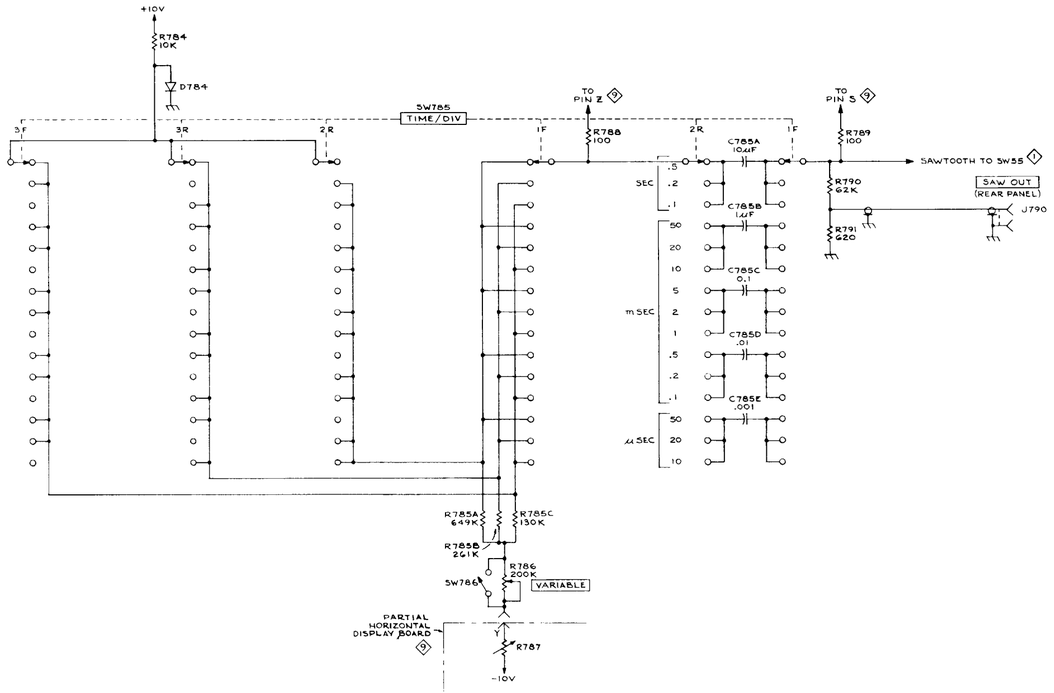
VOLTAGES & WAVEFORMS
TAKEN UNDER THE FOLLOWING CONDITIONS:
SOURCE ..... LINE
LEVEL ..... CENTERED
SLOPE ..... +
TIME / DIV 2mS

SEE PARTS LIST FOR SEMICONDUCTOR TYPES

FOR POWER DISTRIBUTION SEE 12

REFERENCE DIAGRAMS:
9 SWEEPER CIRCUITS
10 VIDEO DETECTOR & VERTICAL AMPLIFIER
10 TIMING SWITCH
11 POWER SUPPLY
12 POWER DISTRIBUTION
13 CRT & BLANKING CIRCUIT

See parts list for earlier values and serial number ranges of parts, also component values encircled.



SEE PARTS LIST FOR SEMICONDUCTOR TYPES.

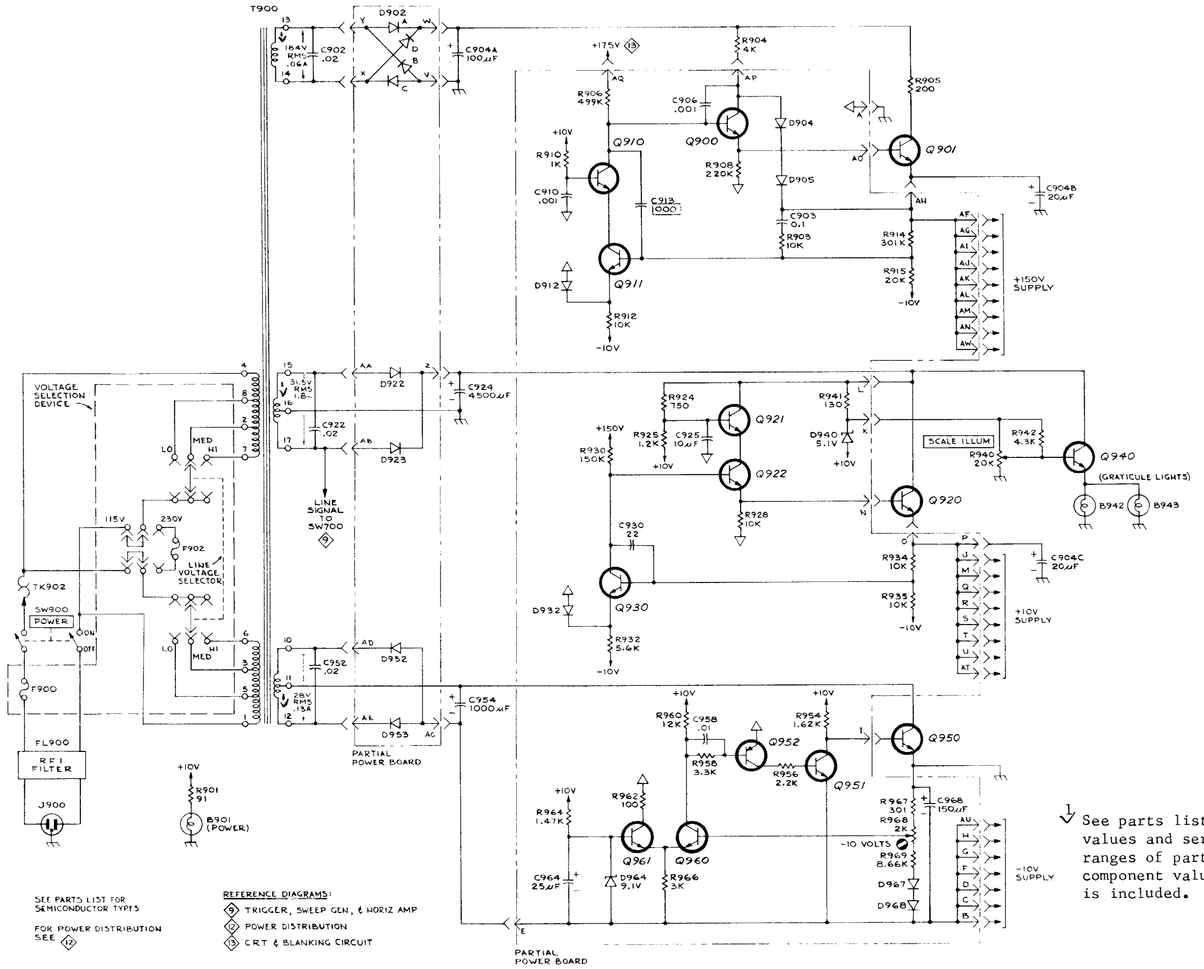
FOR POWER DISTRIBUTION SEE 12

REFERENCE DIAGRAMS:

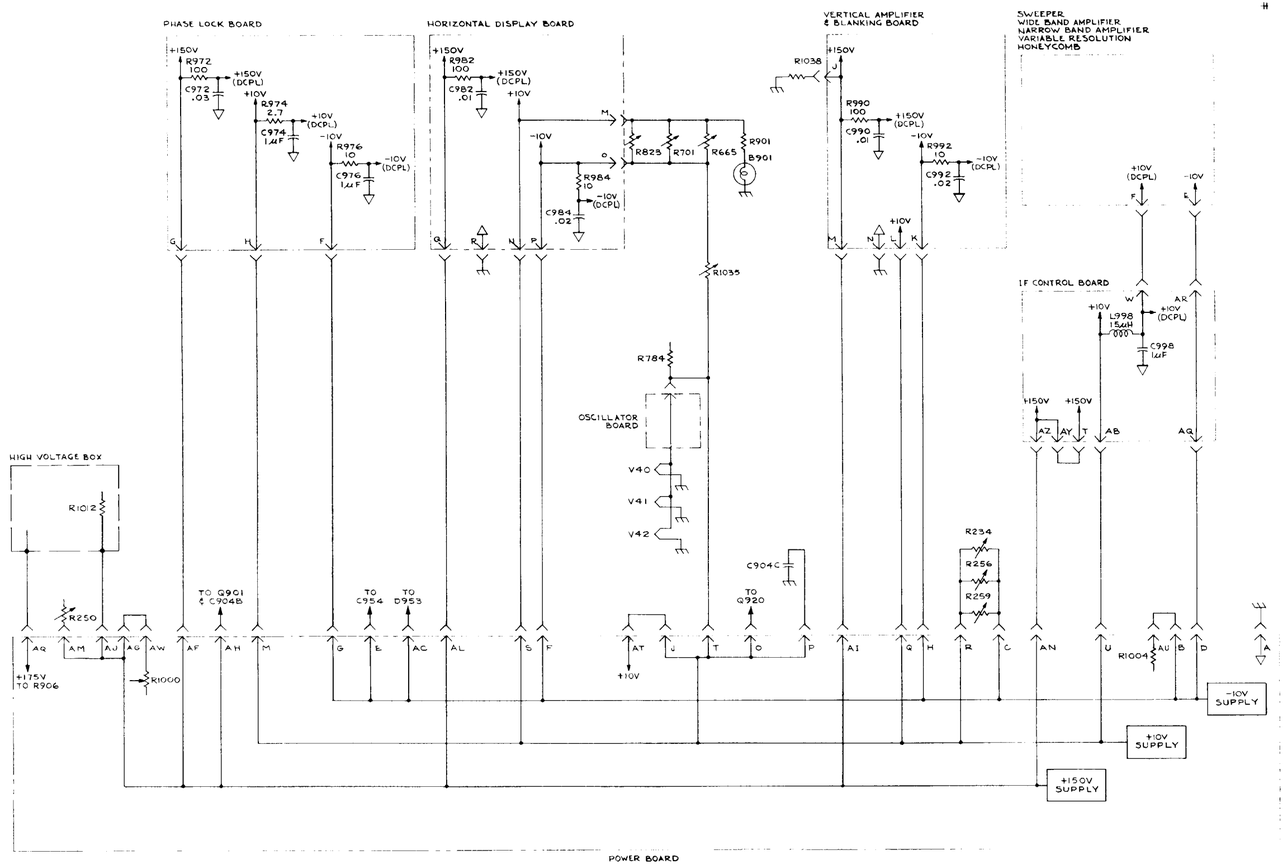
1 RF SECTION

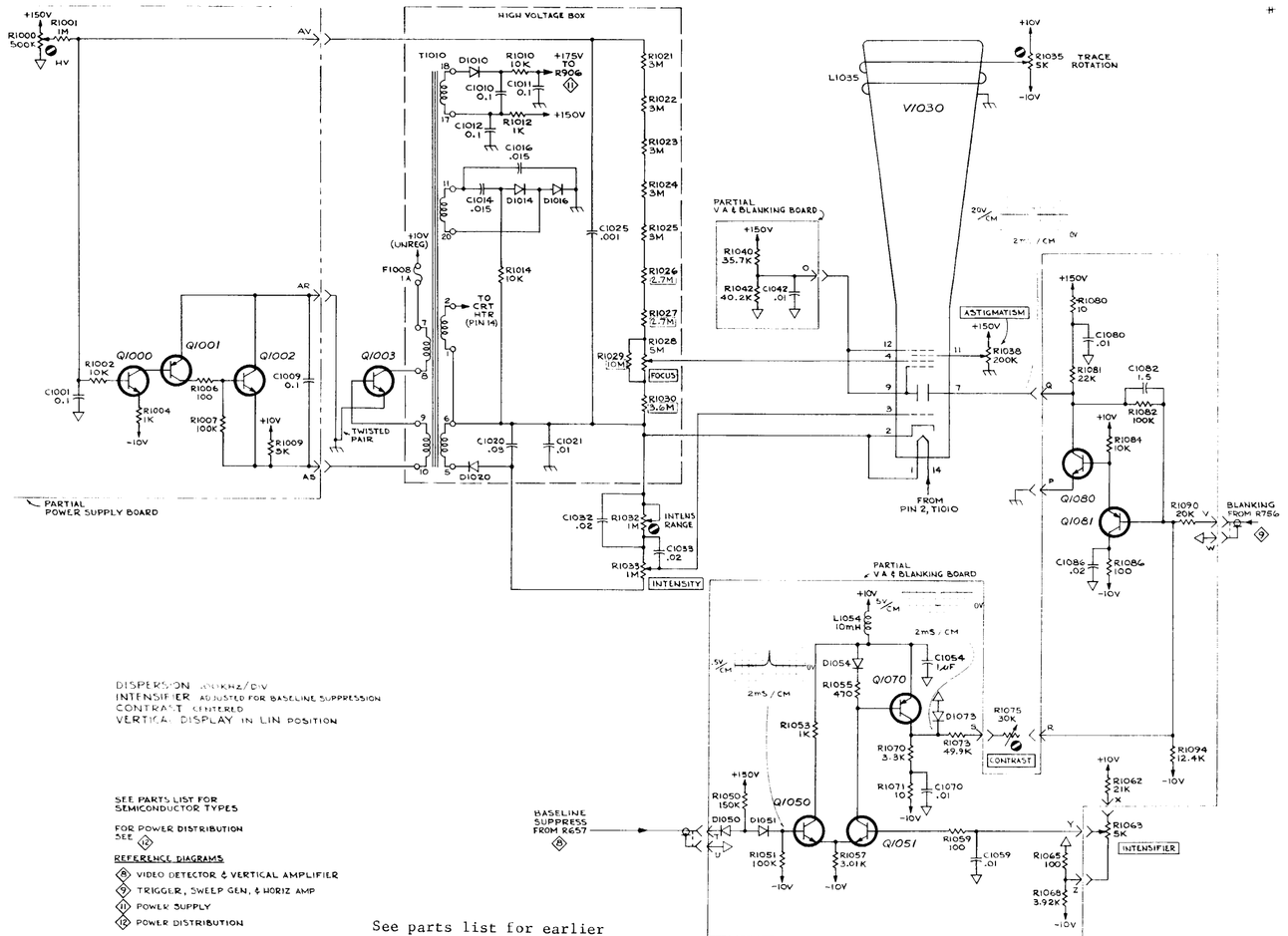
9 TRIGGER, SWEEP GEN & HORIZ AMP

12 POWER DISTRIBUTION



1 See parts list for earlier values and serial number ranges of parts, also component value encircled is included.


PHASE LOCK BOARD
HORIZONTAL DISPLAY BOARD
VERTICAL AMPLIFIER & BLANKING BOARD
SWEEPER
WIDE BAND AMPLIFIER
NARROW BAND AMPLIFIER
VARIABLE RESOLUTION
HONEYCOMB
IF CONTROL BOARD
HIGH VOLTAGE BOX
OSCILLATOR BOARD
POWER BOARD
+150V
-10V
+10V
R972 100
C972 .03
R974 2.7
C974 1.4F
R976 10
C976 1.4F
R982 100
C982 .01
R984 10
C984 .02
R825
R701
R665
R901
B901
R1035
R1038
R990 100
C990 .01
R992 10
C992 .02
L998 15uH
C998 1uF
R784
V40
V41
V42
C904C
R234
R256
R259
R1012
R250
R1000
R1004
TO Q901 & C904B
TO C954
TO D953
TO Q920
+175V TO R906
-10V SUPPLY
+10V SUPPLY
+150V SUPPLY



See parts list for earlier values and serial number ranges of parts of component values encircled.

TYPE 491 SPECTRUM ANALYZER

CRT & BLANKING CIRCUIT 13 168

FIG. 1 FRONT

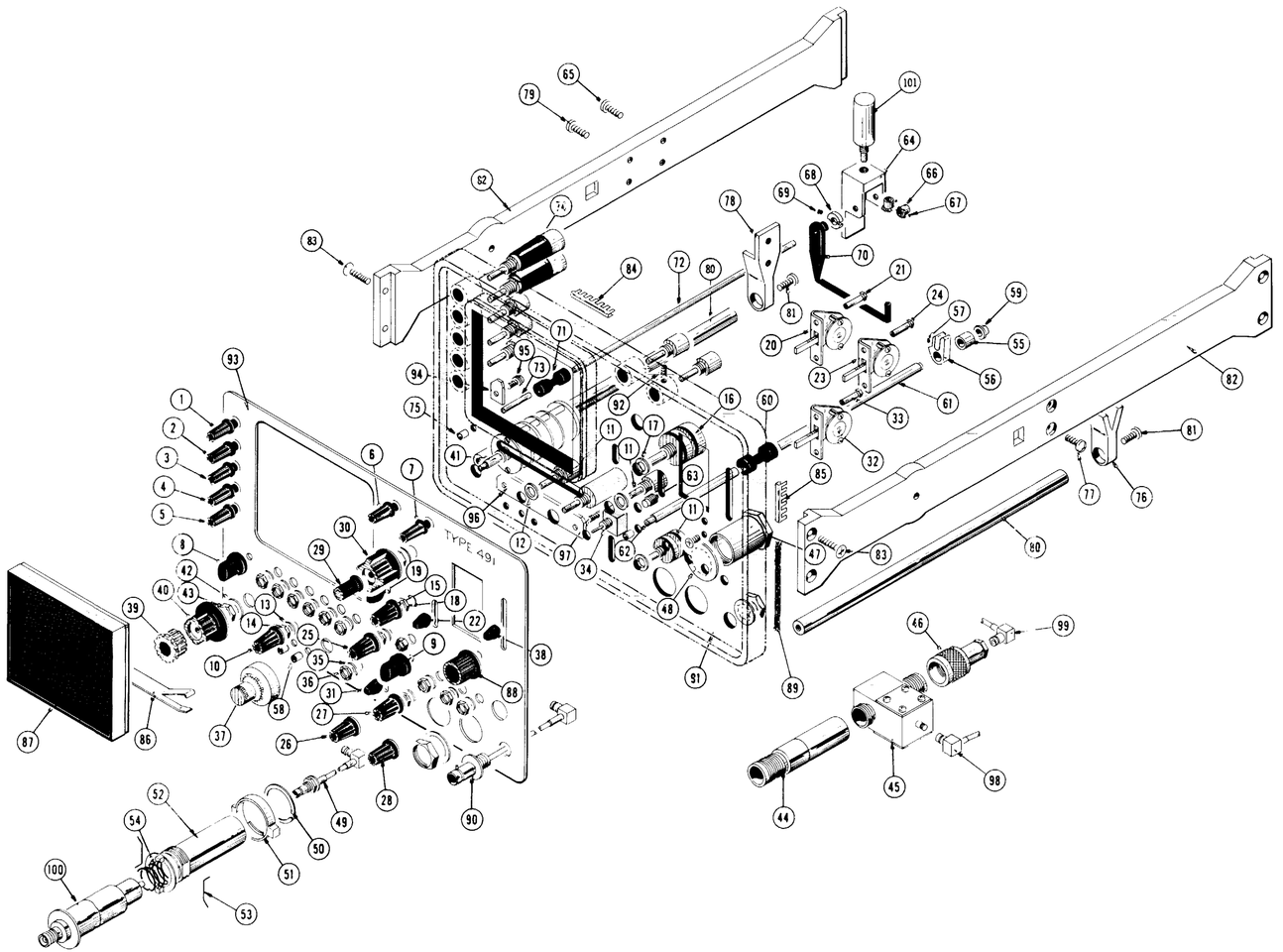


FIG. 2 REAR

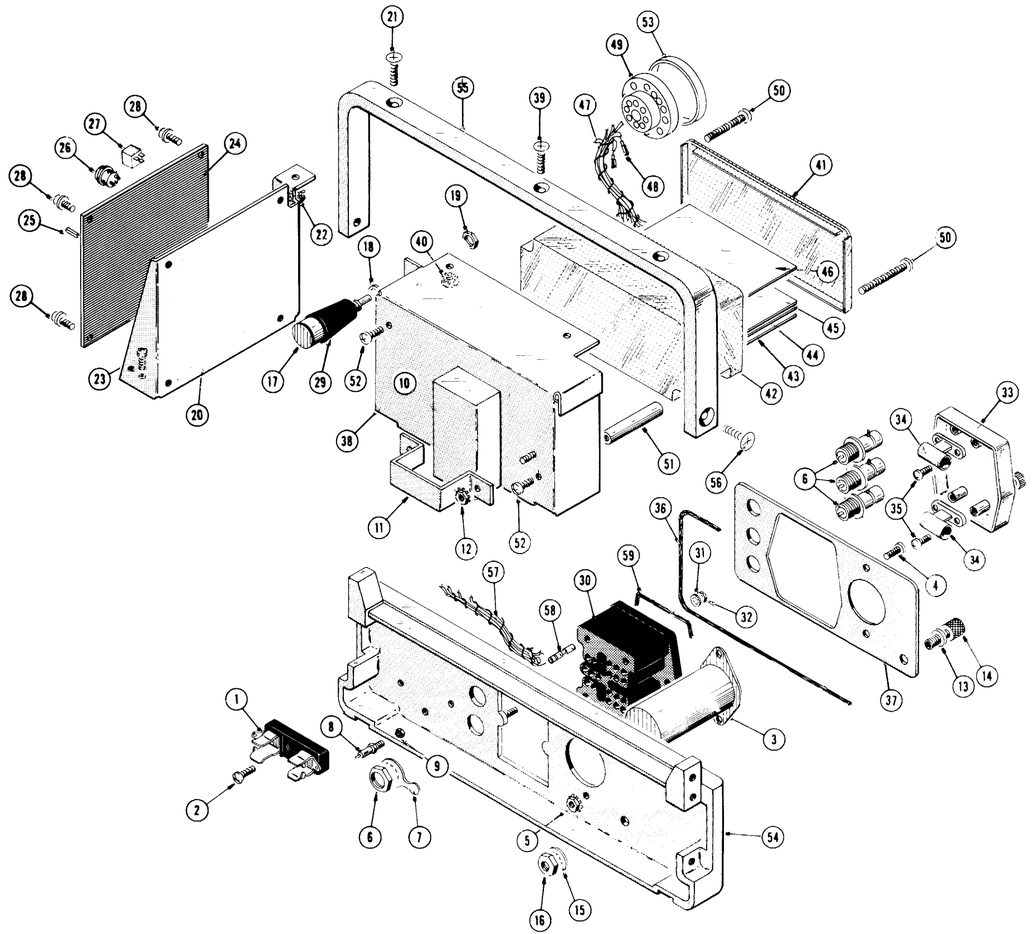


FIG. 3 IF CHASSIS & PHASE LOCK ASSEMBLIES

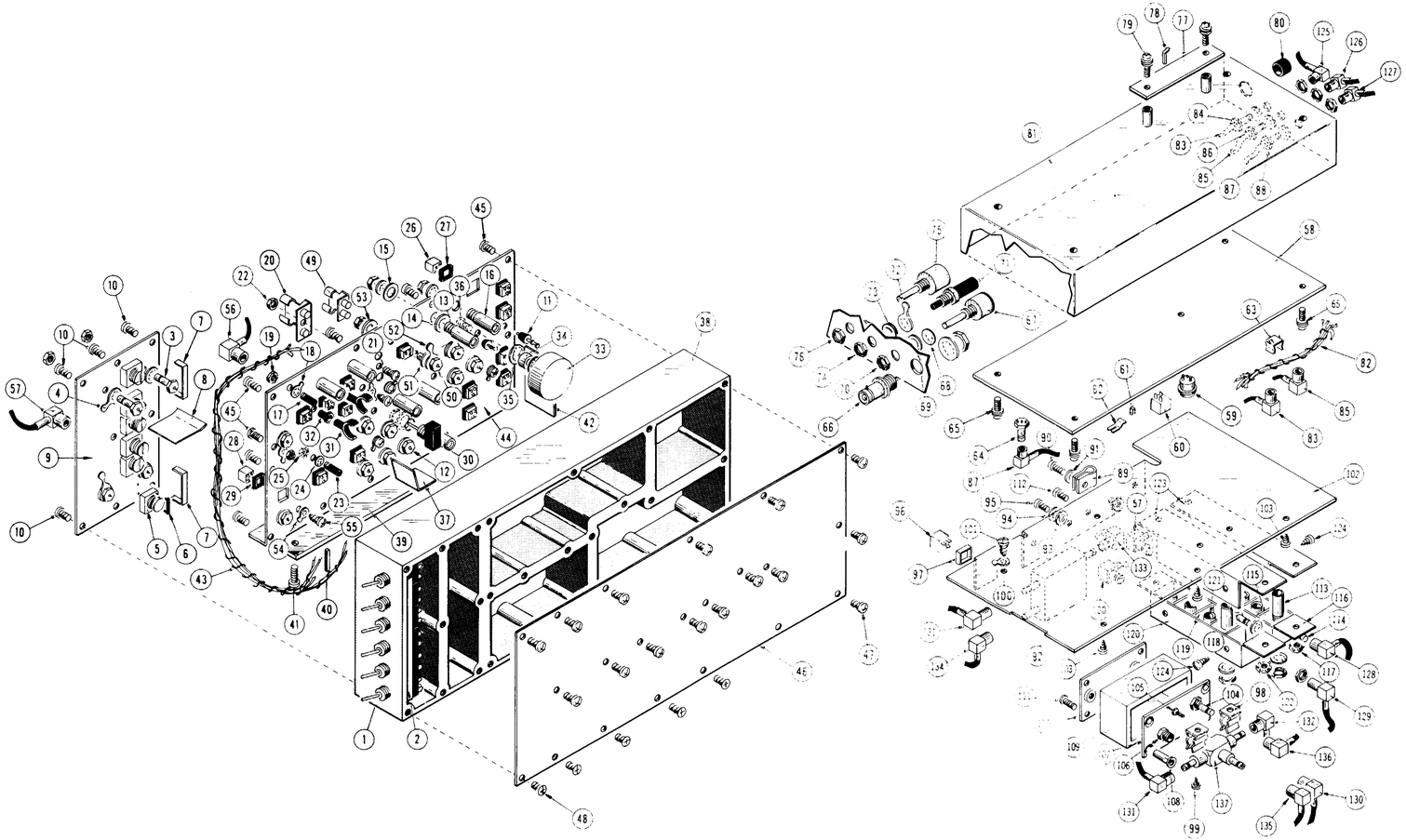


FIG. 4 POWER CHASSIS

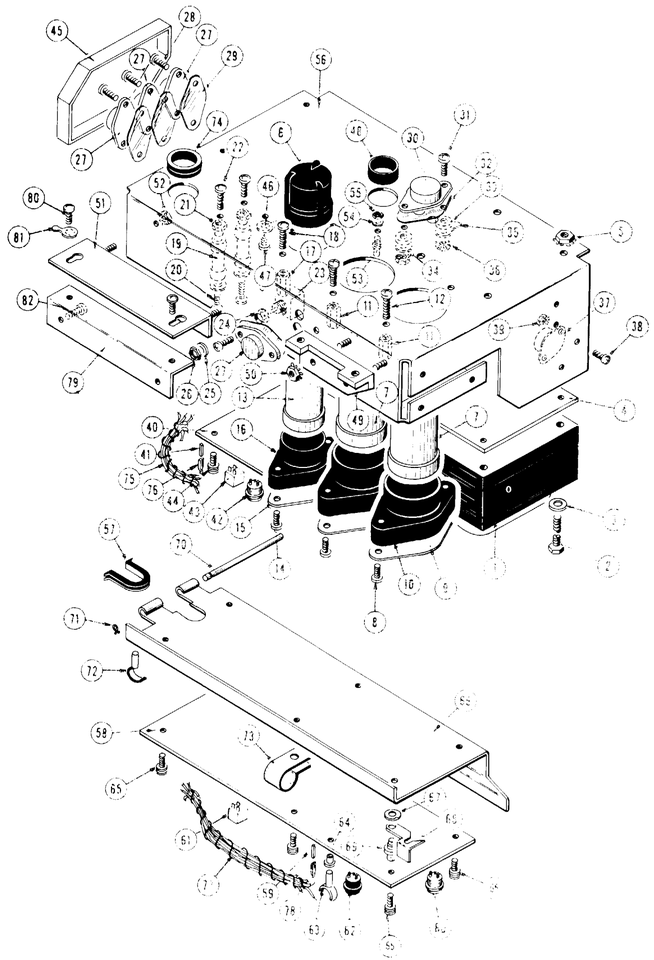


FIG. 5 TIME/DIV SWITCH & OSCILLATOR ASSEMBLIES

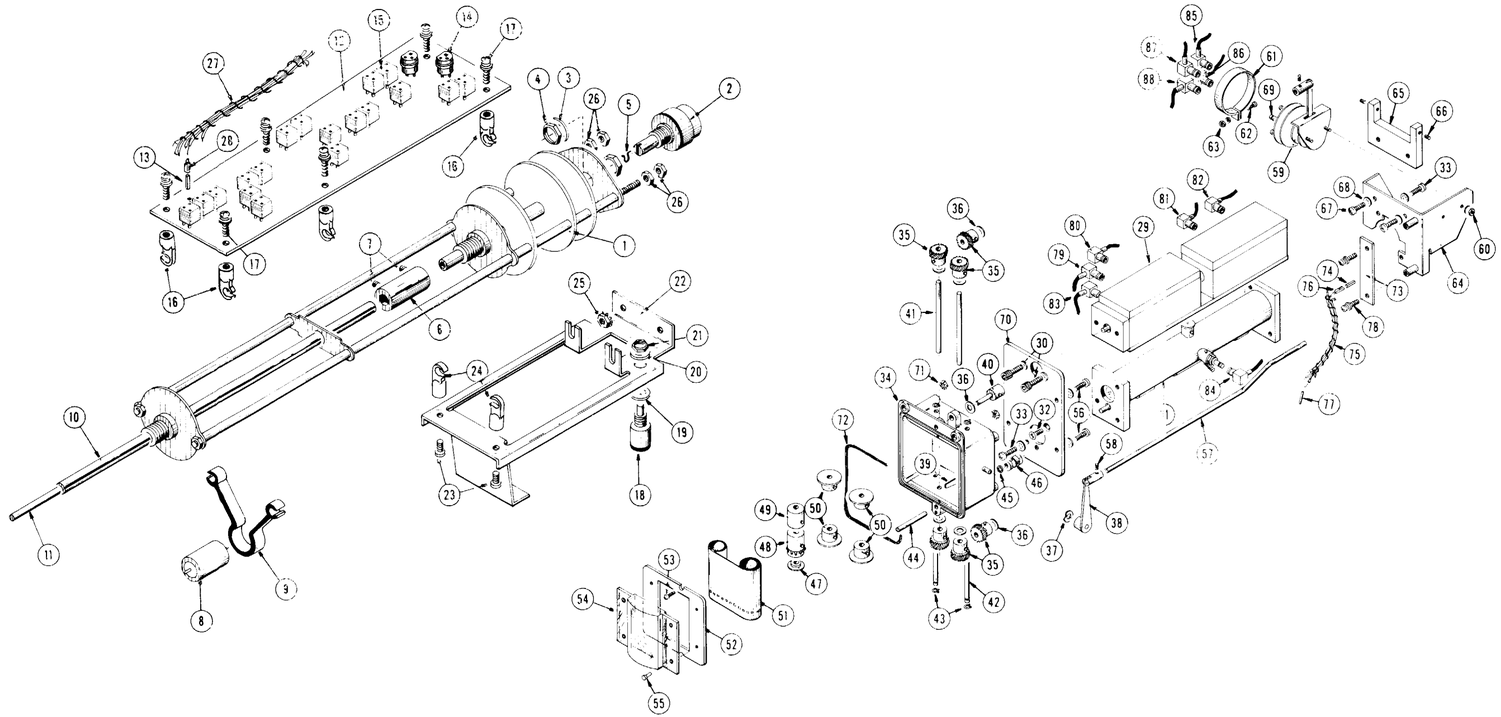


FIG. 6 CRT SHIELD ASSEMBLY

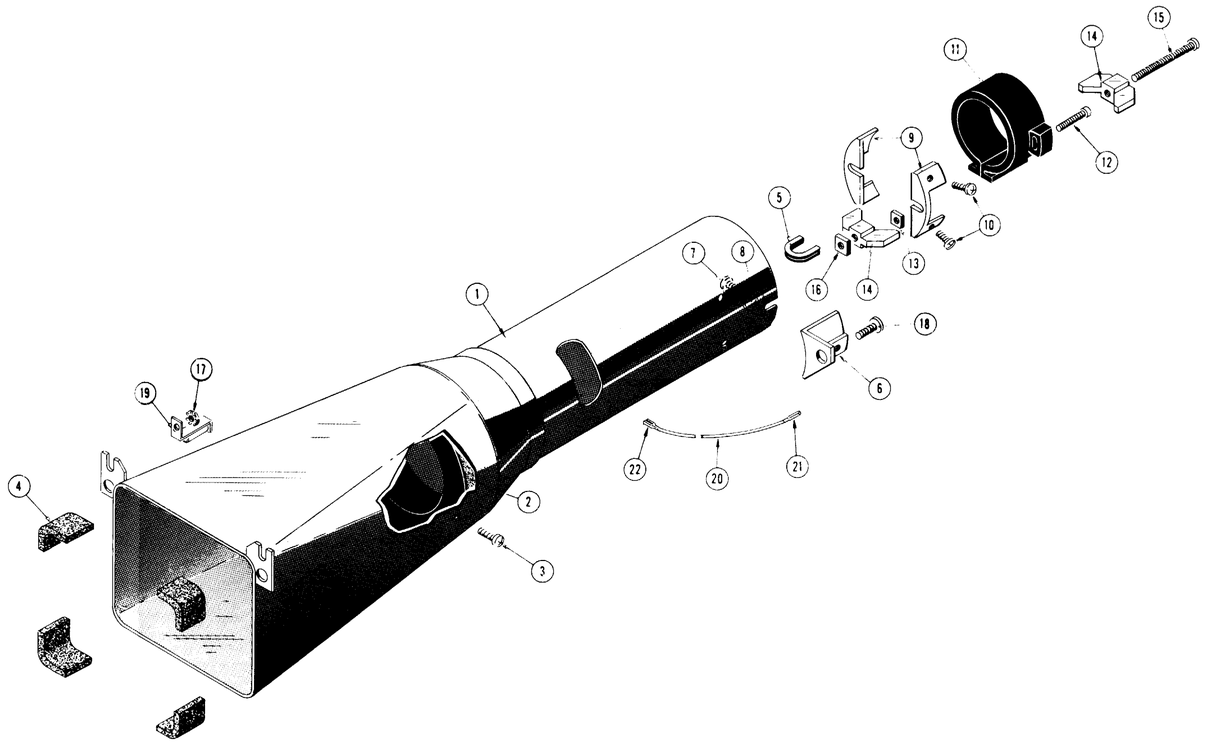


FIG. 7 CABINET ASSEMBLY & HANDLE

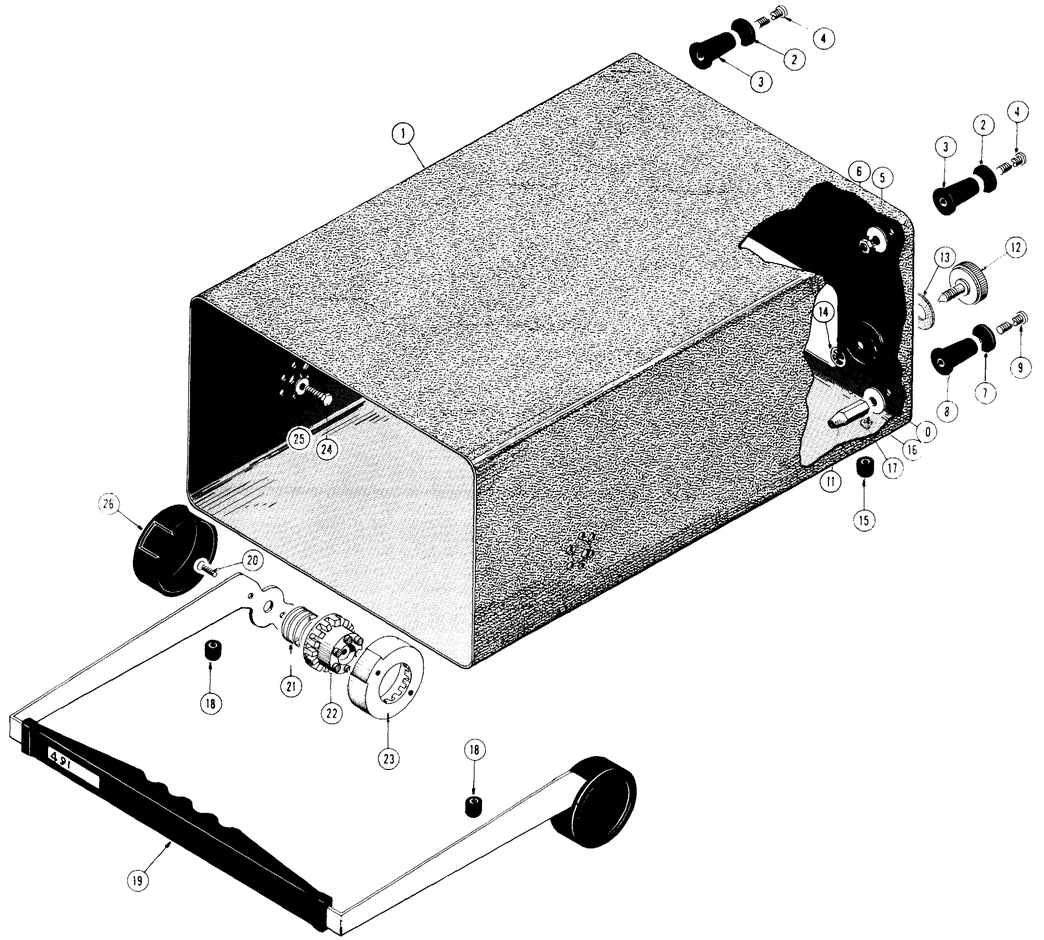
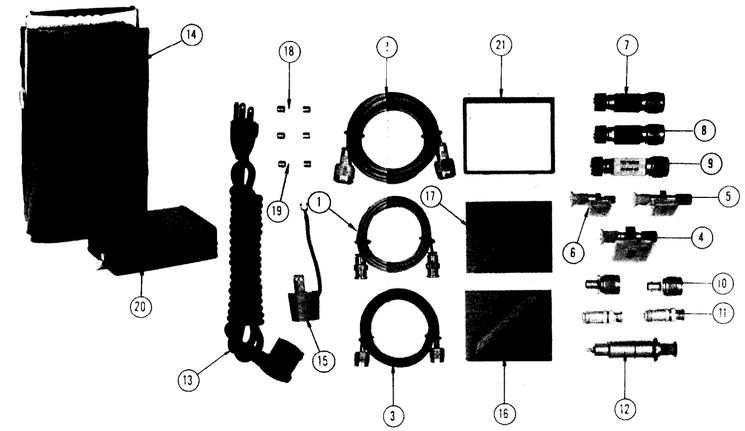


FIG. 8 491 STANDARD ACCESSORIES

Fig. & Index No.	Tektronix Part No.	Serial/Model No. Eff	Serial/Model No. Disc	Qty	Description
					1 2 3 4 5
8-1	012-0113-00			1	CABLE, BNC, miniature, coaxial, 6 feet
-2	012-0114-00			1	CABLE, coaxial, 6 feet
-3	012-0115-00			1	CABLE, TNC, coaxial, 2 feet
-4	119-0097-00			1	MIXER, wave guide, 12.4 to 18.0 GHz
	- - - - - -			-	mixer includes:
	- - - - - -			1	DIODE, silicon (see Electrical Parts List D82)
-5	119-0098-00			1	MIXER, wave guide, 18.0 to 26.5 GHz
	- - - - - -			-	mixer includes:
	- - - - - -			1	DIODE, silicon (see Electrical Parts List D84)
-6	119-0099-00			1	MIXER, wave guide, 26.5 to 40.0 GHz
	- - - - - -			-	mixer includes:
	- - - - - -			1	DIODE, silicon (see Electrical Parts List D86)
-7	011-0085-00			1	ATENUATOR, 10 dB
-8	011-0086-00			1	ATTENUATOR, 20 dB
-9	011-0087-00			1	ATTENUATOR, 40 dB
-10	103-0045-00			2	ADAPTER, connector, type N male to BNC female
-11	103-0058-00			2	ADAPTER, connector, type N female to BNC male
-12	119-0104-00			1	ADAPTER, plug
-13	161-0024-03			1	CORD, power, 18 ga, 8 feet, 3 conductor
-14	016-0074-01			1	COVER, rain
-15	103-0013-00			1	ADAPTER, power cord, 3 to 2 wire
-16	378-0558-00			1	FILTER, light, blue
-17	378-0559-00			1	FILTER, light, amber
-18	159-0022-00			2	FUSE, fast blo, 1 A, 3AG
-19	159-0025-00			1	FUSE, fast blo, ½ A, 3AG
-20	200-0633-03			1	COVER, front (see data sheet)
-21	354-0248-00			1	RING, ornamental
- -	386-0118-00			1	PLATE, protector (not shown)
- -	070-0598-00			2	MANUAL, instruction (not shown)

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FIG. 8 491 STANDARD ACCESSORIES



+ A

PIN: 028017-000