

TR4110
SCHEMATIC SECTION

Parts No.	Stock No.	Description	
SS - Q1	2SC2335	Transistor SI NPN	
" - Q2	2SC2335	Transistor SI NPN	
" - Q3 thru	2SD411	Transistor	
" - Q5			
" - Q6		Not assigned	
" - D1 thru	SM-1-12	Diode SI	
" - D3			
" - D4	W02	Diode SI	
" - D5 thru		Not assigned	
" - D7			
" - D8	KBPC-602	Diode SI	
" - D9 thru		Not assigned	
" - D11			
" - D12	RB402	Diode SI	
" - D13 thru		Not assigned	
" - D15			
" - D16	RB402	Diode SI	
" - D17 thru		Not assigned	
" - D23			
" - D24	W02M	Diode SI	
" - D25 thru		Not assigned	
" - D27			
" - D28	SM-1-12	Diode SI	
" - R1	HR121YN15SB200Ω	R: VAR CAR 200Ω	
" - R2		Not assigned	
" - R3 thru	RV16YN10SB500K	R: VAR CAR 500kΩ	
" - R5			
" - R6		Not assigned	
" - R7		Not assigned	
SS - R8	RV16YN10SB5K	R: VAR CAR 5kΩ	

Parts No.	Stock No.	Description	
SS - R9	RV16YN10SB500Ω	R: VAR CAR 500Ω	
" - R10	X13B5KΩ	R: VAR WW 5kΩ	
" - R11	RV16YN15SB5K	R: VAR CAR 5kΩ	
" - R12	RV16YN15SB10KΩ	R: VAR CAR 10kΩ	
" - R13	RV16YN15SB5K	R: VAR CAR 5kΩ	
" - R14	RJ13B10KΩ	R: VAR CERMET 10kΩ	
" - R15	RV16YN15SB5K	R: VAR CAR 5kΩ	
" - R16	RVE16YN15RB4M	R: VAR CAR 4MΩ	
" - R17		Not assigned	
" - R18		Not assigned	
" - R19	X13B 2KΩ	R: VAR WW 2kΩ	
" - R20	X13B 2KΩ	R: VAR WW 2kΩ	
" - R21	R1/4 220KΩJ	R: FxD CAR 220kΩ ±5% 1/4W	
" - R22	R1/2 220KΩJ	R: FxD CAR 220kΩ ±5% 1/2W	
" - R23	R1/2 220KΩJ	R: FxD CAR 220kΩ ±5% 1/2W	
" - R24 thru	R1/2 22KΩJ	R: FxD CAR 22kΩ ±5% 1/2W	
" - R27			
" - R28		Not assigned	
" - R29	R1/2 22KΩJ	R: FxD CAR 22kΩ ±5% 1/2W	
" - R30 thru		Not assigned	
" - R32			
" - R33	HES-2-1KΩJ	R: FxD CAR 1kΩ ±5% 2W	
" - R34		Not assigned	
" - R35		Not assigned	
" - R36	RD50S 680ΩJ	R: FxD CAR 680Ω ±5% 1/2W	
" - R37	X13B 5KΩ	R: VAR WW 5kΩ	
" - C1	16TA47	C: FxD ELECT 47μF 16V	
" - C2	315LASN100	C: FxD ELECT 100μF 315V	
" - C3	315LASN100	C: FxD ELECT 100μF 315V	
" - C4	50TA220	C: FxD ELECT 220μF 50V	
" - C5	25LASN4700	C: FxD ELECT 4700μF 25V	
" - C6	35LASN4700	C: FxD ELECT 4700μF 35V	
SS - C7	35LASN4700	C: FxD ELECT 4700μF 35V	

Parts No.	Stock No.	Description	
SS - C8		Not assigned	
" - C9	35T1000	C: FxD ELECT 1000 μ F 35V	
" - C10 thru	25TK100	C: FxD ELECT 100 μ F 25V	
" - C12			
" - C13	0.01UF500WV	C: FxD CER 0.01 μ F +80, -20% 500V	
" - C14	0.01UF500WV	C: FxD CER 0.01 μ F +80, -20% 500V	
" - C15 thru	0.01UF50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
" - C17			
" - C18		Not assigned	
" - C19 thru		Not assigned	
" - C21			
" - L1	SN-85-509	L: FxD Coil 72 μ H	
" - L2	SN-85-509	L: FxD Coil 72 μ H	
" - L3	LT-B200	L: FxD Coil 200 μ H	
" - L4	CRT-L4	L: FxD Coil	
" - L5	LT-D 200	L: FxD Coil	
" - L6	LT-D 200	L: FxD Coil	
" - L7	CRTL6	L: FxD Coil	
" - S1	PS603	Switch	
" - S2		Not assigned	
" - S3		Not assigned	
" - S4	YSNH120C	Rotary Switch	
" - S5	YSNH117B	Rotary Switch	
" - S6	LS19P1-2-4	Switch	
" - S7	LS19P1-2-4	Switch	
" - S8	MSP-103C	Switch	
" - S9	LS19P-1-2-4	Switch	
" - S10		Not assigned	
" - S11	PGM-02-V-3F-I20	Rotary Switch	
SS - J1		Not assigned	

Parts No.	Stock No.	Description	
SS - J2			
thru	BNC-078	BNC Connector	
" - J7			
" - J8			
thru	POA-LRJ-196	Connector	
" - J10			
" - J11	251-22-50-167	Connector	
" - J12	57-40500	Connector	
" - J13		Not assigned	
" - J14	57-20500	Connector	
" - J15	251-18-50-169	Connector	
" - J16	251-18-50-169	Connector	
" - J17	251-14-50-169	Connector	
" - J18	251-14-50-169	Connector	
" - J19	251-10-50-169	Connector	
" - J20		Not assigned	
" - J21	TOC-2A36060N	Connector	
" - J22	PBAY-14-2AS2G	Connector	
" - J23	251-18-50-169	Connector	
" - J24		Not assigned	
" - J25	UM-QLP-1.5	Connector	
" - J26		Not assigned	
" - J27	BNC-078	Connector	
" - J28	BNC-078	Connector	
" - J29	251-10-50-169	Connector	
" - J30		Not assigned	
" - J31	UM-QLP-1.5	Connector	
" - J32		Not assigned	
" - J33	SI-7501	Connector	
" - J34	SI-7502	Connector	
" - J35		Not assigned	
" - J36	PCN6-10S-2.5E	Connector	
" - J37	CN-5-140.8	Connector	
" - J38	CN-5-140.8	Connector	
SS - J39	PCN6-15S-2.5E	Connector	

Parts No.	Stock No.	Description	
SS - T1	*	Transformer	
" - NF1	DFE-2013C-043	Line Filter	
" - PL1	MK-14	Lamp	
" - PL2	MK-14	Lamp	
" - V1	140ARB7	CRT Display	
" - P1	TOP-23A	Ground Terminal	
" - F1	EAWK 2A	Fuse 2A slow blow (for AC100V) 1A slow blow (for AC200V)	
" - F2	FR-11-0.2A	Fuse 0.2A fast blow	
" - F3	FR-11-0.2A	Fuse 0.2A fast blow	
" - F4		Not assigned	
" - FH1	FH003	Fuse Holder	
" - FH2 thru		Not assigned	
" - FH4			
SS - B1	#9500	Fan Motor	
	CN-5-14-0.8ø	Contact Pin for CRT	
	PSN-13	Lug Terminal	
	314420	Shielding Cap	
	DCB-DQ0053-1	Power Cable	
	PCN-6	Connector lock	
SS - CB1	DCB-FF0971X02A	Cable	
" - CB2	DCB-FF0971X10A	Cable	
" - CB3	MC-12	Cable	
" - CB4	MC-12	Cable	
SS - CB5	DCB-FF0971X02A	Cable	

TR4110M
SCHEMATIC SECTION

Parts No.	Stock No.	Description	
SS - Q1	2SC2335	Transistor SI NPN	
" - Q2	2SC2335	Transistor SI NPN	
" - Q3 thru	2SD617	Transistor	
" - Q5			
" - Q6		Not assigned	
" - Q7	2SC2335	Transistor SI NPN	
" - D1 thru	SM - 1 - 12	Diode SI	
" - D3			
" - D4	W02	Diode SI	
" - D5 thru		Not assigned	
" - D7			
" - D8	KBPC-602	Diode SI	
" - D9 thru		Not assigned	
" - D11			
" - D12	S2HB10	Diode SI	
" - D13 thru		Not assigned	
" - D15			
" - D16	S2HB10	Diode SI	
" - D17 thru		Not assigned	
" - D23			
" - D24	W02M	Diode SI	
" - D25 thru		Not assigned	
" - D27			
" - D28	SM - 1 - 12	Diode SI	
" - R1		Not assigned	
" - R2 thru	RV16YN10SB500K	R: VAR CAR 500k Ω	
" - R4			
" - R5	RV16YN10SB100K	R: VAR CAR 100k Ω	
" - R6	X13B5K Ω	R: VAR WW 5k Ω	
SS - R7	RV16YN10SB200K	R: VAR CAR 200k Ω	

Parts No.	Stock No.	Description	
SS - R8	RV16YN10SB5K	R: VAR CAR 5k Ω	
" - R9	RV16YN10SB500 Ω	R: VAR CAR 500 Ω	
" - R10	X13B5K Ω	R: VAR WW 5k Ω	
" - R11	RV16YN15SB5K	R: VAR CAR 5k Ω	
" - R12	RV16YN15SB10K	R: VAR CAR 10k Ω	
" - R13	RV16YN15SB5K	R: VAR CAR 5k Ω	
" - R14	RJ13B 10K Ω	R: VAR CERMET 10k Ω	
" - R15	RVE16YN15RB4M	R: VAR CAR 4M Ω	
" - R16	RVE16YN15RB4M	R: VAR CAR 4M Ω	
" - R17	RV16YN15SB50K	R: VAR CAR 50k Ω	
" - R18	VM11AB39A- 5M1112-50KB	R: VAR CAR 50k Ω	
" - R19	X13B 2K Ω	R: VAR WW 2k Ω	
" - R20	X13B 2K Ω	R: VAR WW 2k Ω	
" - R21	R1/4 220K Ω J	R: FxD CAR 220k Ω $\pm$ 5% 1/4W	
" - R22	R1/2 220K Ω J	R: FxD CAR 220k Ω $\pm$ 5% 1/2W	
" - R23	R1/2 220K Ω J	R: FxD CAR 220k Ω $\pm$ 5% 1/2W	
" - R24 thru	R1/2 22K Ω J	R: FxD CAR 22k Ω $\pm$ 5% 1/2W	
" - R27			
" - R28		Not assigned	
" - R29	R1/2 22K Ω J	R: FxD CAR 22k Ω $\pm$ 5% 1/2W	
" - R30 thru		Not assigned	
" - R32			
" - R33	HES - 2 - 1K Ω J	R: FxD CAR 1k Ω $\pm$ 5% 2W	
" - R34		Not assigned	
" - R35		Not assigned	
" - R38	RD50S250K Ω J	R: FxD CAR 250k Ω $\pm$ 5% 1/2W	
" - C1	160TA47	C: FxD ELECT 47 μ F 160V	
" - C2	315LASN100	C: FxD ELECT 100 μ F 315V	
" - C3	315LASN100	C: FxD ELECT 100 μ F 315V	
" - C4	50TA220	C: FxD ELECT 220 μ F 50V	
" - C5	25LASN4700	C: FxD ELECT 4700 μ F 25V	
SS - C6	35LASN4700	C: FxD ELECT 4700 μ F 35V	

Parts No.	Stock No.	Description	
SS - C7	35LASN4700	C: FxD ELECT 4700 μ F 35V	
" - C8		Not assigned	
" - C9	35T1000	C: FxD ELECT 1000 μ F 35V	
" - C10 thru	25TK100	C: FxD ELECT 100 μ F 25V	
" - C12			
" - C13	0.01UF 500WV	C: FxD CER 0.01 μ F +80, -20% 500V	
" - C14	0.01UF 500W	C: FxD CER 0.01 μ F +80, -20% 500V	
" - C15 thru	0.01UF 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
" - C17			
" - C18		Not assigned	
" - C19	0.01UF 500WV	C: FxD CER 0.01 μ F +80, -20% 500V	
" - C20		Not assigned	
" - C21	160T47	C: FxD ELECT 47 μ F 160V	
" - L1	SN-85-509	L: FxD Coil 72 μ H	
" - L2	SN-85-509	L: FxD Coil 72 μ H	
" - L3	LT-B200	L: FxD Coil 200 μ H	
" - L4		Not assigned	
" - L5	LT-D200	L: FxD Coil 200 μ H	
" - L6	LT-D200	L: FxD Coil 200 μ H	
" - L7	CRT-L6	L: FxD Coil	
" - S1	PS603	Switch	
" - S2		Not assigned	
" - S3		Not assigned	
" - S4	YSNH120C	Rotary Switch	
" - S5	YSNH117B	Rotary Switch	
" - S6	LS19P1-2-4	Switch	
" - S7	LS19P1-2-4	Switch	
" - S8	MSP-103C	Switch	
" - S9	LS19P1-2-4	Switch	
SS - S10	PSW-055	Switch	

Parts No.	Stock No.	Description	
SS - S11	PGM-02-V-3F-L20	Rotary Switch	
" - J1		Not assigned	
" - J2 thru u - J7	BNC-078	Connector	
" - J8 thru " - J10	POA-LRJ-196	Connector	
" - J11	251-22-50-167	Connector	
" - J12	57-40500	Connector	
" - J13		Not assigned	
" - J14	57-20500	Connector	
" - J15	251-18-50-169	Connector	
" - J16	251-18-50-169	Connector	
" - J17	251-14-50-169	Connector	
" - J18	251-14-50-169	Connector	
" - J19	251-10-50-169	Connector	
" - J20		Not assigned	
" - J21	TOC-2A36060N	Connector	
" - J22	PBAY-14-2AS2G	Connector	
" - J23	251-18-50-169	Connector	
" - J24	251-22-50-169	Connector	
" - J25	UM-QLP-1.5	Connector	
" - J26		Not assigned	
" - J27	BNC-078	Connector	
" - J28	BNC-078	Connector	
" - J29	251-10-50-169	Connector	
" - J30		Not assigned	
" - J31	UM-QLP-1.5	Connector	
" - J32		Not assigned	
" - J33	SI-7501	Connector	
" - J34	SI-7502	Connector	
" - J35		Not assigned	
SS - J36	PCN6-10S-2.5E	Connector	

Parts No.	Stock No.	Description	
SS - J37	CN-5-140.8	Connector	
" - J38	CN-5-140.8	Connector	
" - J39		Not assigned	
" - T1		Transformer	
" - NF1	DFE-2013C-043	Line Filter	
" - V1	N-6S1P31A	CRT Display	
" - P1	TOP-23A	GND Terminal	
" - F1	EAWK 2A	Fuse 2A slow blow (for AC100V) 1A slow blow (for AC200V)	
" - F2 thru	FR-11-0.2A	Fuse 0.2A fast blow	
" - F4			
" - FH1	FH003	Fuse Holder	
" - FH2 thru		Not assigned	
" - FH4			
SS - B1	#9500	Fan Motor	
	CN-5-14-0.8 ϕ	Contact Pin for CRT	
	PSN-13	Lug Terminal	
	314420	Shielding Cap	
	DCB-DQ0053-1	Power cable	
	PCN-6	Connector lock	
SS - R36	RD50S 680 Ω J	R: FXD CAR 680 Ω $\pm$ 5% 1/2W	
SS - R37	X13B5K Ω	R: VAR CERMET 5K Ω	
SS - CB1	DCB-FF0971X02A	Cable	
" - CB2	DCB-FF0971X10A	Cable	
" - CB3	MC-12	Cable	
" - CB4	MC-12	Cable	
SS - CB5	DCB-FF0971X02A	Cable	

TR4110/M
IF SECTION-II
SK041

Parts No.	Stock No.	Description	
SK041 - Q1	2SC1254	Transistor SI NPN	
" - Q2	2SA1015	Transistor SI PNP	
" - Q3	2SC1254	Transistor SI NPN	
" - Q4	2SA1015	Transistor SI PNP	
" - Q5 thru	2SC1815GR	Transistor SI NPN	
" - Q8			
" - Q9	2SC1254	Transistor SI NPN	
" - Q10	2SA1015	Transistor SI PNP	
" - Q11	2SK33F	FET Junction N-Channel	
" - Q12	2SC1815GR	Transistor SI NPN	
" - Q13	2SK33F	FET Junction N-Channel	
" - Q14	2SC1815GR	Transistor SI NPN	
" - Q15	2SC1254	Transistor SI NPN	
" - Q16	2SA1015	Transistor SI PNP	
" - Q17	2SC1815GR	Transistor SI NPN	
" - Q18	2SC1815GR	Transistor SI NPN	
" - Q19	2SK33F	FET Junction N-Channel	
" - Q20	2SA1015	Transistor SI PNP	
" - Q21	2SC1815GR	Transistor SI NPN	
" - Q22	2SC1815GR	Transistor SI NPN	
" - Q23	2SK33F	FET Junction N-Channel	
" - Q24	2SA1015	Transistor SI PNP	
" - Q25	2SC1815GR	Transistor SI NPN	
" - Q26	2SC1815GR	Transistor SI NPN	
" - Q27	2SK33F	FET Junction N-Channel	
" - Q28	2SA1015	Transistor SI PNP	
" - Q29	2SC1254	Transistor SI NPN	
" - Q30 thru	2SA1015	Transistor SI PNP	
" - Q42			
" - D51 thru	1S2222	Diode SI	
" - D92			
SK041 - D93	1S953	Diode SI	

Parts No.	Stock No.	Description	
SK041 - R101	RD25S 51ΩJ	R: FxD CAR 51Ω ±5% 1/4W	
" - R102	RD25S 270ΩJ	R: FxD CAR 270Ω ±5% 1/4W	
" - R103	RJ6P 1kΩ	R: VAR CERMET 1kΩ	
" - R104	RD25S 3.3kΩJ	R: FxD CAR 3.3kΩ ±5% 1/4W	
" - R105	RD25S 6.8kΩJ	R: FxD CAR 6.8kΩ ±5% 1/4W	
" - R106	RD25S 10kΩJ	R: FxD CAR 10kΩ ±5% 1/4W	
" - R107	RD25S 470ΩJ	R: FxD CAR 470Ω ±5% 1/4W	
" - R108	RD25S 68ΩJ	R: FxD CAR 68Ω ±5% 1/4W	
" - R109	RJ6P 1kΩ	R: VAR CERMET 1kΩ	
" - R110	RD25S 470ΩJ	R: FxD CAR 470Ω ±5% 1/4W	
" - R111	RD25S 6.8kΩJ	R: FxD CAR 6.8kΩ ±5% 1/4W	
" - R112	RD25S 10kΩJ	R: FxD CAR 10kΩ ±5% 1/4W	
" - R113	RD25S 470ΩJ	R: FxD CAR 470Ω ±5% 1/4W	
" - R114	RD25S 22ΩJ	R: FxD CAR 22Ω ±5% 1/4W	
" - R115	RD25S 82ΩJ	R: FxD CAR 82Ω ±5% 1/4W	
" - R116	RD25S 1kΩJ	R: FxD CAR 1kΩ ±5% 1/4W	
" - R117	RJ6P 20Ω	R: VAR CERMET 20Ω	
" - R118	RJ6P 100Ω	R: VAR CERMET 100Ω	
" - R119	RD25S 1kΩJ	R: FxD CAR 1kΩ ±5% 1/4W	
" - R120	RD25S 1kΩJ	R: FxD CAR 1kΩ ±5% 1/4W	
" - R121	RD25S 470ΩJ	R: FxD CAR 470Ω ±5% 1/4W	
" - R122	RD25S 680ΩJ	R: FxD CAR 680Ω ±5% 1/4W	
" - R123	RD25S 10kΩJ	R: FxD CAR 10kΩ ±5% 1/4W	
" - R124	RD25S 10kΩJ	R: FxD CAR 10kΩ ±5% 1/4W	
" - R125	RD25S 2.2kΩJ	R: FxD CAR 2.2kΩ ±5% 1/4W	
" - R126	SN14K2E390ΩF	R: FxD Metal FLM 390Ω ±1% 1/4W	
" - R127	RD25S 3.9kΩJ	R: FxD CAR 3.9kΩ ±5% 1/4W	
" - R128	SN14K2E220ΩF	R: FxD Metal FLM 220Ω ±1% 1/4W	
" - R129	RD25S 1.5kΩJ	R: FxD CAR 1.5kΩ ±5% 1/4W	
" - R130	RD25S 10kΩJ	R: FxD CAR 10kΩ ±5% 1/4W	
" - R131	RD25S 10kΩJ	R: FxD CAR 10kΩ ±5% 1/4W	
" - R132	RD25S 2.2kΩJ	R: FxD CAR 2.2kΩ ±5% 1/4W	
SK041 - R133	SN14K2E180ΩF	R: FxD Metal FLM 180Ω ±1% 1/4W	

Parts No.	Stock No.	Description	
SK041 - R134	RD25S 1.5KΩJ	R: FxD CAR 1.5kΩ ±5% 1/4W	
" - R135	SN14K2E270ΩF	R: FxD Metal FLM 270Ω ±1% 1/4	
" - R136	RD25S 1.5KΩJ	R: FxD CAR 1.5kΩ ±5% 1/4W	
" - R137	RD25S 10KΩJ	R: FxD CAR 10kΩ ±5% 1/4W	
" - R138	RD25S 10KΩJ	R: FxD CAR 10kΩ ±5% 1/4W	
" - R139	RD25S 2.2KΩJ	R: FxD CAR 2.2kΩ ±5% 1/4W	
" - R140	SN14K2E82ΩF	R: FxD Metal FLM 82Ω ±1% 1/4W	
" - R141	RD25S 820ΩJ	R: FxD CAR 820Ω ±5% 1/4W	
" - R142	SN14K2E300ΩF	R: FxD Metal FLM 300Ω ±1% 1/4W	
" - R143	RD25S 1.5KΩJ	R: FxD CAR 1.5kΩ ±5% 1/4W	
" - R144	RD25S 10KΩJ	R: FxD CAR 10kΩ ±5% 1/4W	
" - R145	RD25S 10KΩJ	R: FxD CAR 10kΩ ±5% 1/4W	
" - R146	RD25S 2.2KΩJ	R: FxD CAR 2.2kΩ ±5% 1/4W	
" - R147	SN14K2E51ΩF	R: FxD Metal FLM 51Ω ±1% 1/4W	
" - R148	RD25S 270ΩJ	R: FxD CAR 270Ω ±5% 1/4W	
" - R149	SN14K2E390ΩF	R: FxD Metal FLM 390Ω ±1% 1/4W	
" - R150	RD25S 1.5KΩJ	R: FxD CAR 1.5kΩ ±5% 1/4W	
" - R151	RD25S 6.8KΩJ	R: FxD CAR 6.8kΩ ±5% 1/4W	
" - R152	RD25S 10KΩJ	R: FxD CAR 10kΩ ±5% 1/4W	
" - R153	RD25S 470ΩJ	R: FxD CAR 470Ω ±5% 1/4W	
" - R154	RD25S 33ΩJ	R: FxD CAR 33Ω ±5% 1/4W	
" - R155	RD25S 2.2KΩJ	R: FxD CAR 2.2kΩ ±5% 1/4W	
" - R156	RJ6P 20ΩJ	R: VAR CERMET 20Ω	
" - R157	RD25S 1KΩJ	R: FxD CAR 1kΩ ±5% 1/4W	
" - R158	RD25S 470ΩJ	R: FxD CAR 470Ω ±5% 1/4W	
" - R159	RD25S 680ΩJ	R: FxD CAR 680Ω ±5% 1/4W	
" - R160	RD25S 6.8KΩJ	R: FxD CAR 6.8kΩ ±5% 1/4W	
" - R161	RD25S 3.3KΩJ	R: FxD CAR 3.3kΩ ±5% 1/4W	
" - R162	RD25S 680ΩJ	R: FxD CAR 680Ω ±5% 1/4W	
" - R163	RD25S 220ΩJ	R: FxD CAR 220Ω ±5% 1/4W	
" - R164 thru	RD25S 2.2KΩJ	R: FxD CAR 2.2kΩ ±5% 1/4W	
" - R166			
SK041 - R167	RD25S 22ΩJ	R: FxD CAR 22Ω ±5% 1/4W	

Parts No.	Stock No.	Description	
SK041 - R168	RD25S 100ΩJ	R: FxD CAR 100Ω ±5% 1/4W	
" - R169	RD25S 470ΩJ	R: FxD CAR 470Ω ±5% 1/4W	
" - R170	RD25S 560ΩJ	R: FxD CAR 560Ω ±5% 1/4W	
" - R171	RJ6P 500Ω	R: VAR CERMET 500Ω	
" - R172	RD25S 470ΩJ	R: FxD CAR 470Ω ±5% 1/4W	
" - R173	RD25S 5.6KΩJ	R: FxD CAR 5.6kΩ ±5% 1/4W	
" - R174	RD25S 10KΩJ	R: FxD CAR 10kΩ ±5% 1/4W	
" - R175	RD25S 6.8KΩJ	R: FxD CAR 6.8kΩ ±5% 1/4W	
" - R176	RD25S 3.3KΩJ	R: FxD CAR 3.3kΩ ±5% 1/4W	
" - R177	RD25S 680ΩJ	R: FxD CAR 680Ω ±5% 1/4W	
" - R178	RD25S 220ΩJ	R: FxD CAR 220Ω ±5% 1/4W	
" - R179 thru	RD25S 2.2KΩJ	R: FxD CAR 2.2kΩ ±5% 1/4W	
" - R181			
" - R182	RD25S 22ΩJ	R: FxD CAR 22Ω ±5% 1/4W	
" - R183	RD25S 100ΩJ	R: FxD CAR 100Ω ±5% 1/4W	
" - R184	RD25S 470ΩJ	R: FxD CAR 470Ω ±5% 1/4W	
" - R185	RD25S 680ΩJ	R: FxD CAR 680Ω ±5% 1/4W	
" - R186	21D-28	R: Thermistor	
" - R187	RD25S 470ΩJ	R: FxD CAR 470Ω ±5% 1/4W	
" - R188	RD25S 10KΩJ	R: FxD CAR 10kΩ ±5% 1/4W	
" - R189	RD25S 220ΩJ	R: FxD CAR 220Ω ±5% 1/4W	
" - R190	RD25S 220ΩJ	R: FxD CAR 220Ω ±5% 1/4W	
" - R191	RD25S 2.2KΩJ	R: FxD CAR 2.2kΩ ±5% 1/4W	
" - R192	RD25S 1KΩJ	R: FxD CAR 1kΩ ±5% 1/4W	
" - R193 thru	RD25S 10KΩJ	R: FxD CAR 10kΩ ±5% 1/4W	
" - R198			
" - R199	RD25S 4.7KΩJ	R: FxD CAR 4.7kΩ ±5% 1/4W	
" - R200	RD25S 4.7KΩJ	R: FxD CAR 4.7kΩ ±5% 1/4W	
" - R201	RD25S 8.2KΩJ	R: FxD CAR 8.2kΩ ±5% 1/4W	
" - R202	RD25S 10KΩJ	R: FxD CAR 10kΩ ±5% 1/4W	
" - R203	RD25S 120ΩJ	R: FxD CAR 120Ω ±5% 1/4	
" - R204	RD25S 15ΩJ	R: FxD CAR 15Ω ±5% 1/4W	
SK041 - R205	RJ6P 50Ω	R: VAR CERMET 50Ω	

Parts No.	Stock No.	Description	
SK041 - R206	RD25S 4.7KΩJ	R: FxD CAR 4.7kΩ ±5% 1/4W	
" - R207	RD25S 1KΩJ	R: FxD CAR 1kΩ ±5% 1/4W	
" - R208	RD25S 120ΩJ	R: FxD CAR 120Ω ±5% 1/4W	
" - R209	RD25S 470ΩJ	R: FxD CAR 470Ω ±5% 1/4W	
" - R210	RD25S 820ΩJ	R: FxD CAR 820Ω ±5% 1/4W	
" - R211	RD25S 6.8KΩJ	R: FxD CAR 6.8kΩ ±5% 1/4W	
" - R212	RD25S 1.5KΩJ	R: FxD CAR 1.5kΩ ±5% 1/4W	
" - R213	RD25S 470ΩJ	R: FxD CAR 470Ω ±5% 1/4W	
" - R214	RD25S 120ΩJ	R: FxD CAR 120Ω ±5% 1/4W	
" - R215	RD25S 39ΩJ	R: FxD CAR 39Ω ±5% 1/4W	
" - R216 thru	RD25S 2.2KΩJ	R: FxD CAR 2.2kΩ ±5% 1/4W	
" - R220			
" - R221	RD25S 47KΩJ	R: FxD CAR 47kΩ ±5% 1/4W	
" - R222	RD25S 27KΩJ	R: FxD CAR 27kΩ ±5% 1/4W	
" - R223	RD25S 180ΩJ	R: FxD CAR 180Ω ±5% 1/4W	
" - R224	RD25S 15ΩJ	R: FxD CAR 15Ω ±5% 1/4W	
" - R225	RD25S 15ΩJ	R: FxD CAR 15Ω ±5% 1/4W	
" - R226	RD25S 4.7KΩJ	R: FxD CAR 4.7kΩ ±5% 1/4W	
" - R227	RD25S 1KΩJ	R: FxD CAR 1kΩ ±5% 1/4W	
" - R228	RD25S 120ΩJ	R: FxD CAR 120Ω ±5% 1/4W	
" - R229	RD25S 470ΩJ	R: FxD CAR 470Ω ±5% 1/4W	
" - R230	RD25S 820ΩJ	R: FxD CAR 820Ω ±5% 1/4W	
" - R231	RD25S 6.8KΩJ	R: FxD CAR 6.8kΩ ±5% 1/4W	
" - R232	RD25S 1.5KΩJ	R: FxD CAR 1.5kΩ ±5% 1/4W	
" - R233	RD25S 470ΩJ	R: FxD CAR 470Ω ±5% 1/4W	
" - R234	RD25S 120ΩJ	R: FxD CAR 120Ω ±5% 1/4W	
" - R235	RD25S 39ΩJ	R: FxD CAR 39Ω ±5% 1/4W	
" - R236 thru	RD25S 2.2KΩJ	R: FxD CAR 2.2kΩ ±5% 1/4W	
" - R240			
" - R241	RD25S 47KΩJ	R: FxD CAR 47kΩ ±5% 1/4W	
" - R242	RD25S 27KΩJ	R: FxD CAR 27kΩ ±5% 1/4W	
" - R243	RD25S 180ΩJ	R: FxD CAR 180Ω ±5% 1/4W	
" - R244	RD25S 15ΩJ	R: FxD CAR 15Ω ±5% 1/4W	
SK041 - R245	RD25S 15ΩJ	R: FxD CAR 15Ω ±5% 1/4W	

Parts No.	Stock No.	Description	
SK041 - R246	RD25S 4.7KΩJ	R: FxD CAR 4.7kΩ ±5% 1/4W	
" - R247	RD25S 1KΩJ	R: FxD CAR 1kΩ ±5% 1/4W	
" - R248	RD25S 120ΩJ	R: FxD CAR 120Ω ±5% 1/4W	
" - R249	RD25S 470ΩJ	R: FxD CAR 470Ω ±5% 1/4W	
" - R250	RD25S 820ΩJ	R: FxD CAR 820Ω ±5% 1/4W	
" - R251	RD25S 6.8KΩJ	R: FxD CAR 6.8kΩ ±5% 1/4W	
" - R252	RD25S 1.5KΩJ	R: FxD CAR 1.5kΩ ±5% 1/4W	
" - R253	RD25S 470ΩJ	R: FxD CAR 470Ω ±5% 1/4W	
" - R254	RD25S 120ΩJ	R: FxD CAR 120Ω ±5% 1/4W	
" - R255	RD25S 39ΩJ	R: FxD CAR 39Ω ±5% 1/4W	
" - R256 thru	RD25S 2.2KΩJ	R: FxD CAR 2.2kΩ ±5% 1/4W	
" - R260			
" - R261	RD25S 47kΩJ	R: FxD CAR 47kΩ ±5% 1/4W	
" - R262	RD25S 27KΩJ	R: FxD CAR 27kΩ ±5% 1/4W	
" - R263	RD25S 180ΩJ	R: FxD CAR	
" - R264	RD25S 150ΩJ	R: FxD CAR 150Ω ±5% 1/4W	
" - R265	RD25S 2.2KΩJ	R: FxD CAR 2.2kΩ ±5% 1/4W	
" - R266	RJ6P 500Ω	R: VAR CERMET 500Ω	
" - R267	RD25S 2.2KΩJ	R: FxD CAR 2.2kΩ ±5% 1/4W	
" - R268	RD25S 330ΩJ	R: FxD CAR 330Ω ±5% 1/4W	
" - R269	RD25S 1KΩJ	R: FxD CAR 1kΩ ±5% 1/4W	
" - R270 thru	RD25S 10KΩJ	R: FxD CAR 10kΩ ±5% 1/4W	
" - R274			
" - R275	RD25S 4.7KΩJ	R: FxD CAR 4.7kΩ ±5% 1/4W	
" - R276	RD25S 4.7KΩJ	R: FxD CAR 4.7kΩ ±5% 1/4W	
" - R277	RD25S 8.2KΩJ	R: FxD CAR 8.2kΩ ±5% 1/4W	
" - R278	RD25S 10KΩJ	R: FxD CAR 10kΩ ±5% 1/4W	
" - R279	RD25S 470ΩJ	R: FxD CAR 470Ω ±5% 1/4W	
" - R280	RD25S 150ΩJ	R: FxD CAR 150Ω ±5% 1/4W	
" - R281	RD25S 470ΩJ	R: FxD CAR 470Ω ±5% 1/4W	
" - R282 thru	RD25S 100ΩJ	R: FxD CAR 100Ω ±5% 1/4W	
SK041 - R285			

Parts No.	Stock No.	Description	
SK041 - R286 thru	RD25S 4.7KΩJ	R: FxD CAR 4.7kΩ ±5% 1/4W	
" - R297			
" - R298	TMR6-472	R: FxD COM 4.7kΩ	
" - R299	TMR6-472	R: FxD COM 4.7kΩ	
" - R300	TMR6-473	R: FxD COM 47kΩ	
" - R301	TMR6-473	R: FxD COM 47kΩ	
" - R302	RD25S 330ΩJ	R: FxD CAR 330Ω ±5% 1/4W	
" - R303	RD25S 5.6KΩJ	R: FxD CAR 5.6kΩ ±5% 1/4W	
" - C311	0.01UF 50WV	C: FxD CER 0.01μF +80, -20% 50V	
" - C312	0.01UF 50WV	C: FxD CER 0.01μF +80, -20% 50V	
" - C313	0.047UF 50WV	C: FxD CER 0.047μF +80, -20% 50V	
" - C314	0.047UF 50WV	C: FxD CER 0.047μF +80, -20% 50V	
" - C315	0.01UF 50WV	C: FxD CER 0.01μF +80, -20% 50V	
" - C316	0.01UF 50WV	C: FxD CER 0.01μF +80, -20% 50V	
" - C317	221M2502-106M	C: FxD ELECT TANTAL 10μF ±20% 25V	
" - C318	FD76AF1H104Z	C: FxD CER 0.1μF +80, -20% 50V	
" - C319	0.047UF 50WV	C: FxD CER 0.047μF +80, -20% 50V	
" - C320	FD76AF1H104Z	C: FxD CER 0.1μF +80, -20% 50V	
" - C321 thru	0.01UF 50WV	C: FxD CER 0.01μF +80, -20% 50V	
" - C324			
" - C325	0.047UF 50WV	C: FxD CER 0.047μF +80, -20% 50V	
" - C326	0.01UF 50WV	C: FxD CER 0.01μF +80, -20% 50V	
" - C327	0.01UF 50WV	C: FxD CER 0.01μF +80, -20% 50V	
" - C328	0.047UF 50WV	C: FxD CER 0.047μF +80, -20% 50V	
" - C329	0.047UF 50WV	C: FxD CER 0.047μF +80, -20% 50V	
" - C330	0.01UF 50WV	C: FxD CER 0.01μF +80, -20% 50V	
" - C331	0.01UF 50WV	C: FxD CER 0.01μF +80, -20% 50V	
" - C332	0.047UF 50WV	C: FxD CER 0.047μF +80, -20% 50V	
" - C333	0.01UF 50WV	C: FxD CER 0.01μF +80, -20% 50V	
" - C334	0.01UF 50WV	C: FxD CER 0.01μF +80, -20% 50V	
" - C335	0.047UF 50WV	C: FxD CER 0.047μF +80, -20% 50V	
SK041 - C336	0.01UF 50WV	C: FxD CER 0.01μF +80, -20% 50V	

Parts No.	Stock No.	Description	
SK041 - C337	FD76AF1H104Z	C: FxD CER 0.1 μ F +80, -20% 50V	
" - C338	FD76AF1H104Z	C: FxD CER 0.1 μ F +80, -20% 50V	
" - C339	0.01UF 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
" - C340	0.01UF 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
" - C341	0.047UF 50WV	C: FxD CER 0.047 μ F +80, -20% 50V	
" - C342			
thru	0.01UF 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
" - C349			
" - C350	ECV1ZW20X32	C: FxD CER 20pF	
" - C351	MC1B1H1000J	C: FxD DIPPED MICA 1000P +5% 50V	
" - C352	0.01UF 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
" - C353	0.047UF 50WV	C: FxD CER 0.047 μ F +80, -20% 50V	
" - C354	0.01UF 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
" - C355	FD76AF 1H104Z	C: FxD CER 0.1 μ F +80, -20% 50V	
" - C356			
thru	0.01UF 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
" - C363			
" - C364	ECV1ZW20X32	C: VAR CER 20pF	
" - C365	MC1B1H1000J	C: FxD DIPPED MICA 1000P +5% 50V	
" - C366			
thru	0.01UF 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
" - C368			
" - C369	FD76AF1H104Z	C: FxD CER 0.1 μ F +80, -20% 50V	
" - C370			
thru	0.01UF 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
" - C372			
" - C373	0.047UF 50WV	C: FxD CER 0.047 μ F +80, -20% 50V	
" - C374	0.01UF 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
" - C375	0.047UF 50WV	C: FxD CER 0.047 μ F +80, -20% 50V	
" - C376	0.01UF 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
" - C377	0.01UF 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
" - C378	0.047UF 50WV	C: FxD CER 0.047 μ F +80, -20% 50V	
" - C379	0.01UF 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
" - C380	0.047UF 50WV	C: FxD CER 0.047 μ F +80, -20% 50V	
" - C381	22PF 50WV	C: FxD CER 22pF $\pm$ 10% 50V	
SK041 - C382	0.01UF 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	

Parts No.	Stock No.	Description	
SK041 - C383	3PF 50WV	C: FxD CER 3pF $\pm 10\%$ 50V	
" - C384	ECV1ZW06X53N	C: VAR CER 6pF	
" - C385	DM10C150K5	C: FxD DIPPED MICA 15pF $\pm 10\%$ 500V	
" - C386	ECV1ZW10X32	C: VAR CER 10pF	
" - C387	ECV1ZW20X32	C: VAR CER 20pF	
" - C388	DM10D39QJ5	C: FxD DIPPED MICA 39pF $\pm 5\%$ 500V	
" - C389 thru	0.01UF 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
" - C391			
" - C392	0.047UF 50WV	C: FxD CER 0.047 μ F +80, -20% 50V	
" - C393	FD76AF1H104Z	C: FxD CER 0.1 μ F +80, -20% 50V	
" - C394 thru	0.01UF 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
" - C399			
" - C400	22PF 50WV	C: FxD CER 22pF $\pm 10\%$ 50V	
" - C401	0.01UF 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
" - C402	3PF 50WV	C: FxD CER 3pF $\pm 10\%$ 50V	
" - C403	ECV1ZW06X53N	C: VAR CER 6pF	
" - C404	DM10C150K5	C: FxD DIPPED MICA 15pF $\pm 10\%$ 500V	
" - C405	ECVIZW10X32	C: VAR CER 10pF	
" - C406	ECVIZW20X32	C: VAR CER 20pF	
" - C407	DM10D39QJ5	C: FxD DIPPED MICA 39pF $\pm 5\%$ 500V	
" - C408 thru	0.01UF 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
" - C410			
" - C411	0.047UF 50WV	C: FxD CER 0.047 μ F +80, -20% 50V	
" - C412	FD76AF1H104Z	C: FxD CER 0.1 μ F +80, -20% 50V	
" - C413 thru	0.01UF 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
" - C415			
" - C416	22PF 50WV	C: FxD CER 22pF +80, -20% 50V	
" - C417	0.01UF 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
" - C418	3PF 50WV	C: FxD CER 3pF $\pm 10\%$ 50V	
SK041 - C419	ECV1ZW06X53N	C: VAR CER 6pF	

Parts No.	Stock No.	Description	
SK041 - C420	DM10C150K5	C: FxD DIPPED MICA 15pF $\pm 10\%$ 500V	
" - C421	ECV1ZW10X32	C: VAR CER 10pF	
" - C422	ECV1ZW20X32	C: VAR CER 20pF	
" - C423	DM10D390J5	C: FxD DIPPED MICA 39pF $\pm 5\%$ 500V	
" - C424 thru	0.01UF 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
" - C426			
" - C427	0.047UF 50WV	C: FxD CER 0.047 μ F +80, -20% 50V	
" - C428	FD76AF1H104Z	C: FxD CER 0.1 μ F +80, -20% 50V	
" - C429 thru	0.01UF 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
" - C431			
" - C432	0.047UF 50WV	C: FxD CER 0.047 μ F +80, -20% 50V	
" - C433	15PF 50WV	C: FxD CER 15pF $\pm 10\%$ 50V	
" - C434	0.047UF 50WV	C: FxD CER 0.047 μ F +80, -20% 50V	
" - C435	0.01UF 50WV	C: FxD CER 0.01 μ F +80, -20%	
" - C436	0.047UF 50WV	C: FxD CER 0.047 μ F +80, -20% 50V	
" - C437	0.01UF 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
" - C438	0.047UF 50WV	C: FxD CER 0.047 μ F +80, -20% 50V	
" - C439	0.01UF 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
" - C440	0.047UF 50WV	C: FxD CER 0.047 μ F +80, -20% 50V	
" - C441	FD76AF1H104Z	C: FxD CER 0.1 μ F +80, -20% 50V	
" - C442	0.047UF 50WV	C: FxD CER 0.047 μ F +80, -20% 50V	
" - C443 thru	0.01UF 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
" - C445			
" - C446	0.047UF 50WV	C: FxD CER 0.047 μ F +80, -20% 50V	
" - C447 thru	25VB33	C: FxD ELECT 33 μ F 25V	
" - C450			
" - C451 thru	0.01UF 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
" - C453			
" - L461	*	L: FxD Coil 2.2 μ H	
" - L462	*	L: FxD Coil 2.2 μ H	
SK041 - L463	TPF0410 -331K	L: FxD Coil 330 μ H	

Parts No.	Stock No.	Description	
SK041 - L464	TPF0410 -331K	L: FxD Coil 330 μ H	
" - L465	LCL-B00378	L: FxD Coil 51 μ H	
" - L466	TPF0410 -331K	L: FxD Coil 330 μ H	
" - L467	TPF0410 -331K	L: FxD Coil 330 μ H	
" - L468	LCL-B00378	L: FxD Coil 51 μ H	
" - L469	TPF0410 -331K	L: FxD Coil 330 μ H	
" - L470	TPF0410 -331K	L: FxD Coil 330 μ H	
" - L471	LCL-B00378	L: FxD Coil 51 μ H	
" - L472	TPF0410-331K	L: FxD Coil 330 μ H	
" - L473 thru	CSL0609-471K	L: FxD Coil 470 μ H	
" - L484			
" - L485	CBL0812-181J	L: FxD Coil 180 μ H	
" - L486	CSL0812-181J	L: FxD Coil 180 μ H	
" - X491	XU-112	Crystal Resonator	
" - X492	XU-113	Crystal Resonator	
" - X493	XU-112	Crystal Resonator	
" - J501	HRM301B	Connector	
" - J502	HRM301B	Connector	
" - J503	A-1124	Connector	
	401-9630A	Terminal	
" - R304 thru	RD12S 47 Ω J	R: FXD CAR 47 Ω $\pm 5\%$ 1/8W	
" - R306			
" - D94 thru	1S953	Diode SI	
" - D96			
- SK041 - R307	RD25S 220 Ω J	R: FXD CAR 220 Ω $\pm 5\%$ 1/4W	

TR411C/M
IF SECTION-I
SK040

Parts No.	Stock No.	Description	
SK040 - IC1 " - IC4	HD7407P	IC: Hex Buffer/Driver with Open-Collector High-Voltage Output	
" - IC5	LM324	IC: Quadruple Operational Amplifier	
" - Q11	2SC1254	Transistor SI NPN	
" - Q12	2SA1015	Transistor SI PNP	
" - Q13	2N4859	FET Junction N-Channel	
" - Q14	2SC1254	Transistor SI NPN	
" - Q15	2SA1015	Transistor SI PNP	
" - Q16	2SC1815GR	Transistor SI NPN	
" - Q17	2SA1015	Transistor SI PNP	
" - Q18	2SC1254	Transistor SI NPN	
" - Q19	2SA1015	Transistor SI PNP	
" - Q20	2SC1815GR	Transistor SI NPN	
" - Q21	2SC1815GR	Transistor SI NPN	
" - Q22	2SK33F	FET Junction N-Channel	
" - Q23	2SA1015	Transistor SI PNP	
" - Q24	2SC1815GR	Transistor SI NPN	
" - Q25	2SC1815GR	Transistor SI NPN	
" - Q26	2SK33F	FET Junction N-Channel	
" - Q27	2SA1015	Transistor SI PNP	
" - Q28	2SC1815GR	Transistor SI NPN	
" - Q29	2SC1815GR	Transistor SI NPN	
" - Q30	2SK33F	FET Junction N-Channel	
" - Q31	2SC1815GR	Transistor SI NPN	
" - Q32	2SK33F	FET Junction N-Channel	
" - Q33	2SC1815GR	Transistor SI NPN	
" - Q34 " thru " - Q44	2SA1015	Transistor SI PNP	
" - D51	1S2222	Diode SI	
" - D52	1S2222	Diode SI	
SK040 - D53	1S953	Diode SI	

Parts No.	Stock No.	Description	
SK040 - D54	1S953	Diode SI	
" - D55 thru	1S2222	Diode SI	
" - D83			
" - D84 thru	1S953	Diode SI	
" - D95			
" - R101	RD25S 68ΩJ	R: FxD CAR 68Ω ±5% 1/4W	
" - R102	RD25S 10KΩJ	R: FxD CAR 10kΩ ±5% 1/4W	
" - R103	RD25S 10KΩJ	R: FxD CAR 10kΩ ±5% 1/4W	
" - R104	RD25S 680ΩJ	R: FxD CAR 680Ω ±5% 1/4W	
" - R105	RD25S 680ΩJ	R: FxD CAR 680Ω ±5% 1/4W	
" - R106	RD25S 47ΩJ	R: FxD CAR 47Ω ±5% 1/4W	
" - R107	21D-28	Thermistor	
" - R108	RD25S 18KΩJ	R: FxD CAR 18kΩ ±5% 1/4W (Nominal Value)	
" - R109	RD25S 22KΩJ	R: FxD CAR 22kΩ ±5% 1/4W	
" - R110	RD25S 470KΩJ	R: FxD CAR 470kΩ ±5% 1/4W	
" - R111	RD25S 47ΩJ	R: FxD CAR 47Ω ±5% 1/4W	
" - R112	RD25S 150ΩJ	R: FxD CAR 150Ω ±5% 1/4W	
" - R113	RD25S 470ΩJ	R: FxD CAR 470Ω ±5% 1/4W	
" - R114	RD25S 100ΩJ	R: FxD CAR 100Ω ±5% 1/4W	
" - R115	RD25S 220ΩJ	R: FxD CAR 220Ω ±5% 1/4W	
" - R116	RD25S 2.2KΩJ	R: FxD CAR 2.2kΩ ±5% 1/4W	
" - R117	RD25S 4.7KΩJ	R: FxD CAR 4.7kΩ ±5% 1/4W	
" - R118	RD25S 10KΩJ	R: FxD CAR 10kΩ ±5% 1/4W	
" - R119	RD25S 120ΩJ	R: FxD CAR 120Ω ±5% 1/4W	
" - R120	RD25S 22ΩJ	R: FxD CAR 22Ω ±5% 1/4W	
" - R121	RD25S 82ΩJ	R: FxD CAR 82Ω ±5% 1/4W	
" - R122	RD25S 1KΩJ	R: FxD CAR 1kΩ ±5% 1/4W	
" - R123	RJ6P 20Ω	R: VAR CERMET 20Ω	
" - R124	RJ6P 100Ω	R: VAR CERMET 100Ω	
" - R125	RD25S 1KΩJ	R: FxD CAR 1kΩ ±5% 1/4W	
" - R126	RD25S 1KΩJ	R: FxD CAR 1kΩ ±5% 1/4W	
SK040 - R127	RD25S 10ΩJ	R: FxD CAR 10Ω ±5% 1/4W	

Parts No.	Stock No.	Description	
SK040 - R128	RD25S 1KΩJ	R: FxD CAR 1kΩ ±5% 1/4W	
" - R129	RD25S 33ΩJ	R: FxD CAR 33Ω ±5% 1/4W	
" - R130	RD25S 33ΩJ	R: FxD CAR 33Ω ±5% 1/4W	
" - R131	RD25S 470ΩJ	R: FxD CAR 470Ω ±5% 1/4W	
" - R132	RD25S 560ΩJ	R: FxD CAR 560Ω ±5% 1/4W	
" - R133	RD25S 120ΩJ	R: FxD CAR 120Ω ±5% 1/4W	
" - R134	RD25S 10KΩJ	R: FxD CAR 10kΩ ±5% 1/4W	
" thru - R139			
" - R140	RD25S 4.7KΩJ	R: FxD CAR 4.7kΩ ±5% 1/4W	
" - R141	RD25S 4.7KΩJ	R: FxD CAR 4.7kΩ ±5% 1/4W	
" - R142	RD25S 8.2KΩJ	R: FxD CAR 8.2kΩ ±5% 1/4W	
" - R143	RD25S 10KΩJ	R: FxD CAR 10kΩ ±5% 1/4W	
" - R144	RD25S 120ΩJ	R: FxD CAR 120Ω ±5% 1/4W	
" - R145	RD25S 15ΩJ	R: FxD CAR 15Ω ±5% 1/4W	
" - R146	RD25S 15ΩJ	R: FxD CAR 15Ω ±5% 1/4W	
" - R147	RD25S 1KΩJ	R: FxD CAR 1kΩ ±5% 1/4W	
" - R148	RD25S 4.7KΩJ	R: FxD CAR 4.7kΩ ±5% 1/4W	
" - R149	RD25S 82ΩJ	R: FxD CAR 82Ω ±5% 1/4W	
" - R150	RD25S 470ΩJ	R: FxD CAR 470Ω ±5% 1/4W	
" - R151	RD25S 820ΩJ	R: FxD CAR 820Ω ±5% 1/4W	
" - R152	RD25S 6.8KΩJ	R: FxD CAR 6.8kΩ ±5% 1/4W	
" - R153	RD25S 1.5KΩJ	R: FxD CAR 1.5kΩ ±5% 1/4W	
" - R154	RD25S 470ΩJ	R: FxD CAR 470Ω ±5% 1/4W	
" - R155	RD25S 150ΩJ	R: FxD CAR 150Ω ±5% 1/4W	
" - R156	RD25S 47ΩJ	R: FxD CAR 47Ω ±5% 1/4W	
" - R157	RD25S 2.2KΩJ	R: FxD CAR 2.2kΩ ±5% 1/4W	
" thru - R161			
" - R162	RD25S 47KΩJ	R: FxD CAR 47kΩ ±5% 1/4W	
" - R163	RD25S 27KΩJ	R: FxD CAR 27kΩ ±5% 1/4W	
" - R164	RD25S 180ΩJ	R: FxD CAR 180Ω ±5% 1/4W	
" - R165	RD25S 15ΩJ	R: FxD CAR 15Ω ±5% 1/4W	
" - R166	RJ6P 50Ω	R: VAR CERMET 50Ω	
SK040 - R167	RD25S 4.7KΩJ	R: FxD CAR 4.7kΩ ±5% 1/4W	

Parts No.	Stock No.	Description	
SK040 - R168	RD25S 1KΩJ	R: FxD CAR 1kΩ ±5% 1/4W	
" - R169	RD25S 120ΩJ	R: FxD CAR 120Ω ±5% 1/4W	
" - R170	RD25S 470ΩJ	R: FxD CAR 470Ω ±5% 1/4W	
" - R171	RD25S 820ΩJ	R: FxD CAR 820Ω ±5% 1/4W	
" - R172	RD25S 6.8KΩJ	R: FxD CAR 6.8kΩ ±5% 1/4W	
" - R173	RD25S 1.5KΩJ	R: FxD CAR 1.5kΩ ±5% 1/4W	
" - R174	RD25S 470ΩJ	R: FxD CAR 470Ω ±5% 1/4W	
" - R175	RD25S 150ΩJ	R: FxD CAR 150Ω ±5% 1/4W	
" - R176	RD25S 47ΩJ	R: FxD CAR 47Ω ±5% 1/4W	
" - R177 thru	RD25S 2.2KΩJ	R: FxD CAR 2.2kΩ ±5% 1/4W	
" - R181			
" - R182	RD25S 47KΩJ	R: FxD CAR 47kΩ ±5% 1/4W	
" - R183	RD25S 27KΩJ	R: FxD CAR 27kΩ ±5% 1/4W	
" - R184	RD25S 220ΩJ	R: FxD CAR 220Ω ±5% 1/4W	
" - R185	RD25S 47ΩJ	R: FxD CAR 47Ω ±5% 1/4W	
" - R186	RJ6P 100Ω	R: VAR CERMET 100Ω	
" - R187	RD25S 10ΩJ	R: FxD CAR 10Ω ±5% 1/4W	
" - R188	RD25S 820ΩJ	R: FxD CAR 820Ω ±5% 1/4W	
" - R189	RD25S 330ΩJ	R: FxD CAR 330Ω ±5% 1/4W	
" - R190 thru	RD25S 10KΩJ	R: FxD CAR 10kΩ ±5% 1/4W	
" - R194			
" - R195	RD25S 4.7KΩJ	R: FxD CAR 4.7kΩ ±5% 1/4W	
" - R196	RD25S 4.7KΩJ	R: FxD CAR 4.7kΩ ±5% 1/4W	
" - R197	RD25S 10KΩJ	R: FxD CAR 10kΩ ±5% 1/4W	
" - R198	RD25S 100ΩJ	R: FxD CAR 100Ω ±5% 1/4W	
" - R199	RD25S 470ΩJ	R: FxD CAR 470Ω ±5% 1/4W	
" - R200	RD25S 470ΩJ	R: FxD CAR 470Ω ±5% 1/4W	
" - R201	RD25S 10KΩJ	R: FxD CAR 10kΩ ±5% 1/4W	
" - R202	RD25S 5.6KΩJ	R: FxD CAR 5.6kΩ ±5% 1/4W	
" - R203	RD25S 6.8KΩJ	R: FxD CAR 6.8kΩ ±5% 1/4W	
" - R204	RD25S 3.3KΩJ	R: FxD CAR 3.3kΩ ±5% 1/4W	
" - R205	RD25S 680ΩJ	R: FxD CAR 680Ω ±5% 1/4W	
SK040 - R206	RD25S 220ΩJ	R: FxD CAR 220Ω ±5% 1/4W	

Parts No.	Stock No.	Description	
SK040 - R207	RD25S 22ΩJ	R: FxD CAR 22Ω ±5% 1/4W	
" - R208	RD25S 100ΩJ	R: FxD CAR 100Ω ±5% 1/4W	
" - R209	RD25S 470ΩJ	R: FxD CAR 470Ω ±5% 1/4W	
" - R210	RD25S 470ΩJ	R: FxD CAR 470Ω ±5% 1/4W	
" - R211	RD25S 5.6KΩJ	R: FxD CAR 5.6kΩ ±5% 1/4W	
" - R212	RD25S 10KΩJ	R: FxD CAR 10kΩ ±5% 1/4W	
" - R213	RD25S 680ΩJ	R: FxD CAR 680Ω ±5% 1/4W	
" - R214	RD25S 2.2KΩJ	R: FxD CAR 2.2kΩ ±5% 1/4W	
" - R215	RD25S 2.2KΩJ	R: FxD CAR 2.2kΩ ±5% 1/4W	
" - R216	RD25S 2.2KΩJ	R: FxD CAR 2.2kΩ ±5% 1/4W	
" - R217	RD25S 6.8KΩJ	R: FxD CAR 6.8kΩ ±5% 1/4W	
" - R218	RD25S 3.3KΩJ	R: FxD CAR 3.3kΩ ±5% 1/4W	
" - R219	RD25S 680ΩJ	R: FxD CAR 680Ω ±5% 1/4W	
" - R220	RD25S 220ΩJ	R: FxD CAR 220Ω ±5% 1/4W	
" - R221	RD25S 22ΩJ	R: FxD CAR 22Ω ±5% 1/4W	
" - R222	RD25S 100ΩJ	R: FxD CAR 100Ω ±5% 1/4W	
" - R223	RD25S 470ΩJ	R: FxD CAR 470Ω ±5% 1/4W	
" - R224	RD25S 470ΩJ	R: FxD CAR 470Ω ±5% 1/4W	
" - R225	RD25S 5.6KΩJ	R: FxD CAR 5.6kΩ ±5% 1/4W	
" - R226	RD25S 10KΩJ	R: FxD CAR 10kΩ ±5% 1/4W	
" - R227	RJ6P 500Ω	R: VAR CERMET 500Ω	
" - R228	RD25S 560ΩJ	R: FxD CAR 560Ω ±5% 1/4W	
" - R229	RD25S 100ΩJ	R: FxD CAR 100Ω ±5% 1/4W	
" - R230	RD25S 10KΩJ	R: FxD CAR 10kΩ ±5% 1/4W	
" - R231	RD25S 1KΩJ	R: FxD CAR 1kΩ ±5% 1/4W	
" - R232 thru	RD25S 4.7KΩJ	R: FxD CAR 4.7kΩ ±5% 1/4W	
" - R240			
" - R241 thru	RD25S 47KΩJ	R: FxD CAR 47kΩ ±5% 1/4W	
" - R243			
" - R244	RD25S 22KΩJ	R: FxD CAR 22kΩ ±5% 1/4W	
" - R245	RD25S 330ΩJ	R: FxD CAR 330Ω ±5% 1/4W	
" - R246	RD25S 330ΩJ	R: FxD CAR 330Ω ±5% 1/4W	
SK040 - R247	RD25S 100ΩJ	R: FxD CAR 100Ω ±5% 1/4W	

Parts No.	Stock No.	Description	
SK040 - R248	TMR6-473	R: FxD COM 47k Ω	
" - R249	TMR6-473	R: FxD COM 47k Ω	
" - R250	TMR6-472	R: FxD COM 4.7k Ω	
" - R251	TMR6-472	R: FxD COM 4.7k Ω	
" - R252	TMR6-473	R: FxD COM 47k Ω	
" - R253	TMR6-473	R: FxD COM 47k Ω	
" - R254	TMR6-473	R: FxD COM 47k Ω	
" - R255	TMR4-103	R: FxD COM 10k Ω	
" - R256	TMR6-473	R: FxD COM 47k Ω	
" - R257	RD25S 47K Ω J	R: FxD CAR 47k Ω $\pm$ 5% 1/4W	
" - R258	RD25S 4.7K Ω J	R: FxD CAR 4.7k Ω $\pm$ 5% 1/4W	
" - R259	RD25S 4.7K Ω J	R: FxD CAR 4.7k Ω $\pm$ 5% 1/4W	
" - R260 thru	RD25S 2.2K Ω J	R: FxD CAR 2.2k Ω $\pm$ 5% 1/4W	
" - R262			
" - R263	RD25S 100 Ω J	R: FxD CAR 100 Ω $\pm$ 5% 1/4W	
" - C271	DM10D221J3	C: FxD DIPPED MICA	
" - C272	DM10D221J3	C: FxD DIPPED MICA	
" - C273	DM19D432J3	C: FxD DIPPED MICA	
" - C274	DM10D221J3	C: FxD DIPPED MICA	
" - C275	0.01 μ F 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
" - C276	FD76AF1H104Z	C: FxD CER 0.1 μ F +80, -20% 50V	
" - C277	0.01 μ F 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
" - C278	0.047 μ F 50WV	C: FxD CER 0.047 μ F +80, -20% 50V	
" - C279 thru	0.01 μ F 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
" - C282			
" - C283	FD76AF1H104Z	C: FxD CER 0.1 μ F +80, -20% 50V	
" - C284	FD76AF1H104Z	C: FxD CER 0.1 μ F +80, -20% 50V	
" - C285	0.01 μ F 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
" - C286	0.047 μ F 50WV	C: FxD CER 0.047 μ F +80, -20% 50V	
" - C287	0.01 μ F 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
" - C288	0.047 μ F 50WV	C: FxD CER 0.047 μ F +80, -20% 50V	
" - C289 thru	0.01 μ F 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
SK040 - C291			

Parts No.	Stock No.	Description	
SK040 - C292	0.047UF 50WV	C: FxD CER 0.047 μ F +80, -20% 50V	
" - C293	0.01UF 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
" - C294	0.01UF 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
" - C295	0.047UF 50WV	C: FxD CER 0.047 μ F +80, -20% 50V	
" - C296	0.01UF 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
" - C297	0.047UF 50WV	C: FxD CER 0.047 μ F +80, -20% 50V	
" - C298	22PF 50WV	C: FxD CER 22pF $\pm$ 10% 50V	
" - C299	0.01UF 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
" - C300	3PF 50WV	C: FxD CER 3pF $\pm$ 10% 50V	
" - C301	0.01UF 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
" - C302	0.047UF 50WV	C: FxD CER 0.047 μ F +80, -20% 50V	
" - C303	ECV1ZW06X53N	C: VAR CER 6pF	
" - C304	DM10C 150K5	C: FxD DIPPED MICA 15pF $\pm$ 10% 500V	
" - C305	ECV1ZW10X32	C: VAR CER 10pF	
" - C306	ECV1ZW20X32	C: VAR CER 20pF	
" - C307	DM10D390J5	C: FxD DIPPED MICA 39pF $\pm$ 5% 500V	
" - C308	0.01UF 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
" thru - C310			
" - C311	0.047UF 50WV	C: FxD CER 0.047 μ F +80, -20% 50V	
" - C312	FD76AF1H104Z	C: FxD CER 0.1 μ F +80, -20% 50V	
" - C313	0.01UF 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
" - C314	22PF 50WV	C: FxD CER 22pF $\pm$ 10% 50V	
" - C315	0.01UF 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
" - C316	3PF 50WV	C: FxD CER 3pF $\pm$ 10% 50V	
" - C317	ECV1ZW06X53N	C: FxD CER 6pF	
" - C318	DM10C150K5	C: FxD DIPPED MICA 15pF $\pm$ 10% 500V	
" - C319	ECV1ZW10X32	C: FxD CER 10pF	
" - C320	ECV1ZW20X32	C: FxD CER 20pF	
" - C321	DM10D390J5	C: FxD DIPPED MICA 39pF $\pm$ 5% 500V	
" - C322	0.01UF 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
SK040 - C323	0.047UF 50WV	C: FxD CER 0.047 μ F +80, -20% 50V	

Parts No.	Stock No.	Description	
SK040 - C324			
thru	0.01UF 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
" - C326			
" - C327	0.047UF 50WV	C: FxD CER 0.047 μ F +80, -20% 50V	
" - C328	FD76AF1H104Z	C: FxD CER 0.1 μ F +80, -20% 50V	
" - C329			
thru	0.01UF 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
" - C334			
" - C335	0.047UF 50WV	C: FxD CER 0.047 μ F +80, -20% 50V	
" - C336	15PF 50WV	C: FxD CER 15pF $\pm$ 10% 50V	
" - C337	0.01UF 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
" - C338	0.01UF 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
" - C339			
thru	0.047UF 50WV	C: FxD CER 0.047 μ F +80, -20% 50V	
" - C341			
" - C342			
thru	0.01UF 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
" - C348			
" - C349	0.047UF 50WV	C: FxD CER 0.047 μ F +80, -20% 50V	
" - C350			
thru	0.01UF 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
" - C353			
" - C354	ECV1ZW20X32	C: VAR CER 20pF	
" - C355	MC1B1H1000J	C: FxD DIPPED MICA 1000P +5% 50V	
" - C356	FD76AF1H104Z	C: FxD CER 0.1 μ F +80, -20% 50V	
" - C357			
thru	0.01UF 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
" - C359			
" - C360	0.047UF 50WV	C: FxD CER 0.047 μ F +80, -20% 50V	
" - C361			
thru	0.01UF 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
" - C370			
" - C371	ECV1ZW20X32	C: VAR CER 20pF	
" - C372	MC1B1H1000J	C: FxD DIPPED MICA 1000P +5% 50V	
" - C373	FD76AF1H104Z	C: FxD CER 0.1 μ F +80, -20% 50V	
" - C374	0.01UF 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
" - C375	0.01UF 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
SK040 - C376	0.047UF 50WV	C: FxD CER 0.047 μ F +80, -20% 50V	

Parts No.	Stock No.	Description	
SK040 - C377		Not assigned	
" - C378			
thru	0.01UF 50WV	C: FxD CER 0.01 μ F +80, -20% 50V	
" - C391			
" - C392	10VB33	C: FxD ELECT 33 μ F 10V	
" - C393			
thru	25VB33	C: FxD ELECT 33 μ F 25V	
" - C396			
" - L401	L07A50	L: FxD Coil 10 μ H	
" - L402	L07A49	L: FxD Coil 0.5 μ H	
" - L403	L07A50	L: FxD Coil 10 μ H	
" - L404	TPF0410-331K	L: FxD Coil 330 μ H	
" - L405	TPF0410-331K	L: FxD Coil 330 μ H	
" - L406	LCL-B00378	L: FxD Coil	
" - L407	TPF0410-331K	L: FxD Coil 330 μ H	
" - L408	TPF0410-331K	L: FxD Coil 330 μ H	
" - L409	LCL-B00378	L: FxD Coil	
" - L410	TPF0410-331K	L: FxD Coil 330 μ H	
" - L411		L: FxD Coil 2.2 μ H	
" - L412		L: FxD Coil 2.2 μ H	
" - L413			
thru	CSL0609-471K	L: FxD Coil 470 μ H	
" - L418			
" - L419	CSL0812-181J	L: FxD Coil 180 μ H	
" - L420	CSL0812-181J	L: FxD Coil 180 μ H	
" - T425	L10B-13	Transformer	
" - X431	XU-112	Crystal Resonator	
" - X432	XU-113	Crystal Resonator	
" - J441	HRM301B	Connector	
" - J442	HRM301B	Connector	
" - J443	A-2136	Pin Connector	
SK040 - J444	TOC-1A24030N	Connector with Cable	
	401-9630A	Terminal	

Parts No.	Stock No.	Description	
SK040-R264	RD12S 47ΩJ	R: FXD CAR 47Ω ±5% 1/8W	
" -R265	RD12S 75ΩJ	R: FXD CAR 75Ω ±5% 1/8W	
" -R266	RD25S 470ΩJ	R: FXD CAR 470Ω ±5% 1/4W	
" -Q45	2SC1815GR	Transistor SI NPN	
" -D96	1S953	Diode SI	
SK040-R267	RD25S 10KΩJ	R: FXD CAR 10kΩ ±5% 1/4W	
	A-105	Hermetic Seal	

TR 4110
H.V. POWER SUPPLY BLOCK
MEP278

Parts No.	Stock No.	Description	
MEP278-Q1	2SC2335	Transistor SI NPN	
" -T1	TP-1077	Transformer	
MEP278-J1	PCN6-15S-2.5E	Connector	
	MR4E-5F-2	Rectifier	

TR 4110
H.V POWER SUPPLY MEP278
SE195

Parts No.	Stock No.	Description	
SE195-Q2	2SA1015	Transistor SI PNP	
" -Q3	2SC1815	Transistor SI NPN	
" -Q4	2SC1815	Transistor SI NPN	
" -Q5	2SC1815GR	Transistor SI NPN	
" -Q6	2SA510	Transistor SI PNP	
" -Q7	2SC505	Transistor SI NPN	
" -Q8	2SC1815GR	Transistor SI NPN	
" -Q9	2SC1279S	Transistor SI NPN	
" -Q10	2SC1279S	Transistor SI NPN	
" -D21 thru	1S953	Diode SI	
" -D25			
" -D26	SM-1-08	Diode SI	
" -D27 thru	A114B	Diode SI	
" -D30			
" -D31	HVT-30S	Diode SI	
" -D32	1N989A	Zener Diode	
" -R41	RD25S100ΩJ	R:FXD CAR 100Ω ±5% 1/4W	
" -R42	RD25S56KΩJ	R:FXD CAR 56kΩ ±5% 1/4W	
" -R43	RD25S100ΩJ	R:FXD CAR 100Ω ±5% 1/4W	
" -R44	RD25S1KΩJ	R:FXD CAR 1kΩ ±5% 1/4W	
" -R45	RD25S5.6KΩJ	R:FXD CAR 5.6kΩ ±5% 1/4W	
" -R46	RD25S1KΩJ	R:FXD CAR 1kΩ ±5% 1/4W	
" -R47	RD25S560ΩJ	R:FXD CAR 560Ω ±5% 1/4W	
" -R48	RD25S42KΩJ	R:FXD CAR 42kΩ ±5% 1/4W	
" -R49	RD25S12KΩJ	R:FXD CAR 12kΩ ±5% 1/4W	
" -R50	RD25S820ΩJ	R:FXD CAR 820Ω ±5% 1/4W	
" -R51	RD25S10KΩJ	R:FXD CAR 10kΩ ±5% 1/4W	
" -R52	RD25S180KΩJ	R:FXD CAR 180kΩ ±5% 1/4W	
" -R53	RD25S1KΩJ	R:FXD CAR 1kΩ ±5% 1/4W	
" -R54	RD25S 4.7KΩJ	R:FXD CAR 4.7kΩ ±5% 1/4W	
" -R55	RD25S68KΩJ	R:FXD CAR 68kΩ ±5% 1/4W	
" -R56	SN14KZH909kΩP	R:FXD Metal FLM 909kΩ ±1% 2W	
SE195-R57	RJ6P 200KΩ	R:VAR CERMET 200kΩ	

Parts No.	Stock No.	Description	
SE195-R58	RD25S33KΩJ	R:FXD CAR 33kΩ ±5% 1/4W	
" -R59	RD25S33KΩJ	R:FXD CAR 33kΩ ±5% 1/4W	
" -R60	RD25S22KΩJ	R:FXD CAR 22kΩ ±5% 1/4W	
" -R61	RD25S100KΩJ	R:FXD CAR 100kΩ ±5% 1/4W	
" -R62	RD25S22KΩJ	R:FXD CAR 22kΩ ±5% 1/4W	
" -R63	RD25S100KΩJ	R:FXD CAR 100kΩ ±5% 1/4W	
" -R64	RD25S68KΩJ	R:FXD CAR 68kΩ ±5% 1/4W	
" -R65	RJ6P 100KΩ	R:VAR CERMET 100kΩ	
" -R66	RD25S100KΩJ	R:FXD CAR 100kΩ ±5% 1/4W	
" -R67	RD25S10KΩJ	R:FXD CAR 10kΩ ±5% 1/4W	
" -R68	RD25S150KΩJ	R:FXD CAR 150kΩ ±5% 1/4W	
" -R69	RD25S47KΩJ	R:FXD CAR 47kΩ ±5% 1/4W	
" -R70	RD25S1KΩJ	R:FXD CAR 1kΩ ±5% 1/4W	
" -R71	HM1/422MΩJ	R:FXD CAR 22MΩ ±5% 1/4W	
" -R72	RD25S100ΩJ	R:FXD CAR 100Ω ±5% 1/4W	
" -R73	RD25S1KΩJ	R:FXD CAR 1kΩ ±5% 1/4W	
" -R74	RD25S1KΩJ	R:FXD CAR 1kΩ ±5% 1/4W	
" -R75	RD50S4.7MΩJ	R:FXD CAR 4.7MΩ ±5% 1/2W	
" -R76	RH2HVD18MΩJ	R:FXD Metal FLM 18MΩ ±5% 1W	
" -R77	RH2HVS10MΩJ	R:FXD Metal FLM 10MΩ ±5% 1W	
" -R78	RD25S82KΩJ	R:FXD CAR 82kΩ ±5% 1/4W	
" -R79	RD25S120KΩJ	R:FXD CAR 120kΩ ±5% 1/4W	
" -C81 thru	25VB10	C:FXD ELECT 10μF 25V	
" -C83			
" -C84	5015002-473K	C:FXD Polyester FLM 0.047μF ±10% 50V	
" -C85	0.1UF 25WV	C:FXD CER 0.1μF +80, -20% 25V	
" -C86	0.1UF 25WV	C:FXD CER 0.1μF +80, -20% 25V	
" -C87	0.01UF 500WV	C:FXD CER 0.01μF +80, -20% 25V	
" -C88	35VB100	C:FXD ELECT 100μF 35V	
" -C89	501N2003-103K	C:FXD Polyester FLM 0.001μF ±10% 200V	
" -C90	431M2003-104K	C:FXD Metal FLM 0.1μF ±10% 200V	
SE195-C91	0.01UF 500WV	C:FXD CER 0.01μF +80, -20% 500V	

Parts No.	Stock No.	Description	
SE195-C92	DD3160-362E152P 3KV02	C:FXD CER 1500pF +100, -0% 3kV	
" -C93 thru	DD32506 682P2KV02	C:FXD CER 6800pF +100, -0% 2kV	
" -C95			
" -C96	DD3160-362E152P 3KV02	C:FXD CER 1500pF +100, -0% 3kV	
" -C97	DD32506 682P2KV02	C:FXD CER 6800pF +100, -0% 2kV	
" -C98	DD3160-362E152P 3KV02	C:FXD CER 1500pF +100, -0% 3kV	
" -C99	DM10D470J3	C:FXD DIPPED MICA 47pF $\pm 5\%$ 300V	
" -C100	DM10D470J3	C:FXD DIPPED MICA 47pF $\pm 5\%$ 300V	
" -C101	0.01UF 500WV	C:FXD CER 0.01 μ F +80, -20% 500V	
" -L111	ELO810SKI-221M	L:FXD Coil 220uH	
SE195-J121	FCN6B-15P-2.5DS	Connector	
	C-55-111A	Test point	

TR 4110M
HV POWER SUPPLY
MEP146

Parts No.	Stock No.	Description	
4110M-MEP146-Q55	2SD82	Transistor SI NPN	
4110M-MEP146-T51	H-312A(TP795)	High Voltage Transformer	

TR 4110M
HV POWEE SUPPLY -1
MEP146, WEO59B

Parts No.	Stock No.	Description	
4110M-WEO59B-D1	HVT-30S	Diode SI	
4110M-WEO59B-D2	HVT-30S	Diode SI	
4110M-WEO59B-D3 thru		Not assigned	
4110M-WEO59B-D6			
4110M-WEO59B-D7 thru	05Z68	Diode	
4110M-WEO59B-D9			
4110M-WEO59B-R11	R1/2 18KΩ	R:FXD CAR 18KΩ ±5% 1/2W	
4110M-WEO59B-R12	R1/2 51KΩ	R:FXD CAR 51KΩ ±5% 1/2W	
4110M-WEO59B-R13	RH2HVS 36MΩ	R:FXD High Voltage 36MΩ ±5% 1W	
4110M-WEO59B-R14	HES-1-1.5MΩ	R:FXD CAR 1.5MΩ ±5% 1W	
4110M-WEO59B-R15	RH1HVD1MΩ	R:FXD Metal FLM 1MΩ ±5% 1W	
4110M-WEO59B-R16	RH2HVS 10MΩ	R:FXD High Voltage 10MΩ ±5% 1W	
4110M-WEO59B-R17	RH1HVD3.3MΩ	R:FXD Metal FLM 3.3MΩ ±5% 1W	
4110M-WEO59B-R18	R1/2 10KΩ	R:FXD CAR 10KΩ ±5% 1/2W	
4110M-WEO59B-R19	R1/2 10KΩ	R:FXD CAR 10KΩ ±5% 1/2W	
4110M-WEO59B-R20	RH2HVD 18MΩ	R:FXD High Voltage 18MΩ ±5% 1W	
4110M-WEO59B-R21	R1/2 27KΩ	R:FXD CAR 27KΩ ±5% 1/2W	
4110M-WEO59B-C31		Not assigned	
4110M-WEO59B-C32 thru	DD3250-E682P2KV02	C:FXD CER 6800pF +100, 0% 2KV	
4110M-WEO59B-C38			
4110M-WEO59B-C39	DD3220-E222Z6KV02	C:FXD CER 2200pF +100, 0% 2KV	
4110M-WEO59B-C40	MXT-6003-473K	C:FXD Mylar 0.047μF ±10% 600V	
4110M-WEO59B-C41		Not assigned	
4110M-WEO59B-Ne61 thru		Not assigned	
4110M-WEO59B-Ne63			
	C-55-11A		
	ST44-97B		

TR4110M
HV POWER SUPPLY -2
MEP-146, SE075

Parts No.	Stock No.	Description	
4110M-SE075-D3			
thru	HVT-30S	Diode SI	
" " -D6			
" " -R16	RH1HVD2.2MΩJ	R:FXD Metal FLM 2.2MΩ ±5% 1W	
" " -R17	RH2HVB10MΩF	R:FXD Metal FLM 10MΩ ±1% 2W	
" " -R18	R1 33KΩJ	R:FXD CAR 33kΩ ±5% 1W	
" " -C35			
thru	DD3220-E222Z6KV02	C:FXD CER 2200pF +100,-0% 2KV	
4110M-SE075-C39			

TR4110
HV POWER SUPPLY
MEP-164

Parts No.	Stock No.	Description	
4110-MEP164-Q50	2SD82	Transistor SI NPN	
" " -T55	TP-795A	High Voltage Transformer	
4110-MEP164-J56	J1-21	Connector	

TR4110
HV POWER SUPPLY
MEP-164, WEO59

Parts No.	Stock No.	Description	
4110-WEO59-D1	HVT-30S	Diode SI	
" " -D2	HVT-30S	Diode SI	
" " -D3		Not assigned	
" " -D4		Not assigned	
" " -R11	R1/2-18K Ω J	R:FXD CAR 18k Ω $\pm$ 5% 1/2W	
" " -R12	R1/2-51K Ω J	R:FXD CAR 51k Ω $\pm$ 5% 1/2W	
" " -R13	RC4HVR-36M Ω J	R:FXD CAR 36M Ω $\pm$ 5% 4W	
" " -R14	RH1HVD4.7M Ω J	R:FXD Metal FLM 4.7M Ω $\pm$ 5% 1W	
" " -R15	RH1HVD1M Ω J	R:FXD Metal FLM 1M Ω $\pm$ 5% 1W	
" " -R16	RC4HVR-10M Ω J	R:FXD CAR 10M Ω $\pm$ 5% 4W	
" " -R17	RH1HVD2.2M Ω J	R:FXD Metal FLM 2.2M Ω $\pm$ 5% 1W	
" " -R18	R1/2-10K Ω J	R:FXD CAR 10k Ω $\pm$ 5% 1/2W	
" " -R19	R1/2-10K Ω J	R:FXD CAR 10k Ω $\pm$ 5% 1/2W	
" " -R20	RC4HVR-18M Ω J	R:FXD CAR 18M Ω $\pm$ 5% 4W	
" " -R21	R1/2-27K Ω J	R:FXD CAR 27k Ω $\pm$ 5% 1/2W	
" " -R22		Not assigned	
" " -R23		Not assigned	
" " -C31	MXT-4003-103K	C:FXD Mylar 0.01 μ F $\pm$ 10% 400V	
" " -C32 thru	DD3250-E682P2KV02	C:FXD CER 6800pF +100, -0% 2KV	
" " -C38			
" " -C39	DD3220-E222Z6KV02	C:FXD CER 2200pF +100, -0% 2KV	
" " -C40	MXT-6003-473K	C:FXD Mylar 0.047 μ F $\pm$ 10% 600V	
" " -C41 thru			
" " -C43		Not assigned	
" " -Ne61 thru	NE-20D	Neon Lamp	
4110-WEO59-Ne63	SKT-5BC		
	ST44-97B		

TR4110
HV POWER SUPPLY
MEP-164, SE098

Parts No.	Stock No.	Description	
4110-SE098-D1		Not assigned	
" " -D2		Not assigned	
" " -D3	HVT-30S	Diode SI	
" " -D4	HVT-30S	Diode SI	
" " -R11 thru		Not assigned	
" " -R21			
" " -R22	RH1HVD1M9J	R:FXD Metal FLM 1M Ω $\pm$ 5% 1W	
" " -R23	RH1HVD1M9J	R:FXD Metal FLM 1M Ω $\pm$ 5% 1W	
" " -C31 thru		Not assigned	
" " -C40			
" " -C41 thru	DD3220-E222Z6KV02	C:FXD CER 2200pF +100, -0% 2KV	
4110-SE098-C43	ST44-97B		

TR4110/M
4TH MIXER SECTION
MEP329
SV210

Parts No.	Stock No.	Description	
SV210 - Q1	2SC1426	Transistor SI NPN	
" - Q2	2SC1254	Transistor SI NPN	
" - Q3	2SA1015	Transistor SI PNP	
" - Q4	2SC1730	Transistor SI NPN	
" - Q5	2SC1426	Transistor SI NPN	
" - Q6	3SK74	MOSFET N-Channel Dual Gate	
" - D11 thru	1SS97	Diode SI	
" - D14			
" - D15	1S953	Diode SI	
" - D16	1S953	Diode SI	
" - R21	RD25S 180ΩJ	R: FXD CAR 180Ω ±5% 1/4W	
" - R22	RD25S 5.6KΩJ	R: FXD CAR 5.6kΩ ±5% 1/4W	
" - R23	RD25S 5.6KΩJ	R: FXD CAR 5.6kΩ ±5% 1/4W	
" - R24	RD25S 270ΩJ	R: FXD CAR 270Ω ±5% 1/4W	
" - R25	RD25S 470ΩJ	R: FXD CAR 470Ω ±5% 1/4W	
" - R26	RD25S 10ΩJ	R: FXD CAR 10Ω ±5% 1/4W	
" - R27	RD25S 51ΩJ	R: FXD CAR 51Ω ±5% 1/4W	
" - R28	RD25S 8.2KΩJ	R: FXD CAR 8.2kΩ ±5% 1/4W	
" - R29	RD25S 10KΩJ	R: FXD CAR 10kΩ ±5% 1/4W	
" - R30	RD25S 470ΩJ	R: FXD CAR 470Ω ±5% 1/4W	
" - R31	RD25S 51ΩJ	R: FXD CAR 51Ω ±5% 1/4W	
" - R32	RJ6P 200Ω	R: VAR CERMET 200Ω	
" - R33	RD25S 150ΩJ	R: FXD CAR 150Ω ±5% 1/4W	
" - R34	RD25S 22ΩJ	R: FXD CAR 22Ω ±5% 1/4W	
" - R35	RD25S 680ΩJ	R: FXD CAR 680Ω ±5% 1/4W	
" - R36	RD25S 47ΩJ	R: FXD CAR 47Ω ±5% 1/4W	
" - R37	RD25S 10ΩJ	R: FXD CAR 10Ω ±5% 1/4W	
" - R38	RD25S 10KΩJ	R: FXD CAR 10kΩ ±5% 1/4W	
" - R39	RD25S 10KΩJ	R: FXD CAR 10kΩ ±5% 1/4W	
" - R40	RD25S 1.8KΩJ	R: FXD CAR 1.8kΩ ±5% 1/4W	
" - R41	RD25S 330ΩJ	R: FXD CAR 330Ω ±5% 1/4W	
SV210 - R42	RD25S 4.7KΩJ	R: FXD CAR 4.7kΩ ±5% 1/4W	

Parts No.	Stock No.	Description	
SV210 - R43	RD25S 4.7 KQJ	R: FXD CAR 4.7k Ω $\pm$ 5% 1/4W	
" - R44	RD25S 470QJ	R: FXD CAR 470 Ω $\pm$ 5% 1/4W	
" - R45	RD25S 51QJ	R: FXD CAR 51 Ω $\pm$ 5% 1/4W	
" - R46	RD25S 820QJ	R: FXD CAR 820 Ω $\pm$ 5% 1/4W	
" - R47	RD25S 10KQJ	R: FXD CAR 10k Ω $\pm$ 5% 1/4W	
" - R48	RD25S 8.2KQJ	R: FXD CAR 8.2k Ω $\pm$ 5% 1/4W	
" - R49	RD25S 10KQJ	R: FXD CAR 10k Ω $\pm$ 5% 1/4W	
" - R50	RD25S 1KQJ	R: FXD CAR 1k Ω $\pm$ 5% 1/4W	
" - R51	RD25S 680QJ	R: FXD CAR 680 Ω $\pm$ 5% 1/4W	
" - R52	RD25S 10QJ	R: FXD CAR 10 Ω $\pm$ 5% 1/4W	
" - R53	RD25S 180QJ	R: FXD CAR 180 Ω $\pm$ 5% 1/4W	
" - R54	RD25S 180QJ	R: FXD CAR 180 Ω $\pm$ 5% 1/4W	
" - R55 thru	RD12S 22QJ	R: FXD CAR 22 Ω $\pm$ 5% 1/8W	
" - R58			
" - C61 thru	0.01UF 50WV	C: FXD CER 0.01 μ F +80, -20% 50V	
" - C64			
" - C65	DM10C 180K5	C: FXD DIPPED MICA 18pF $\pm$ 10% 500V	
" - C66	ECVIZW 10X32	C: VAR CER 10pF	
" - C67	DM10C 010D5	C: FXD DIPPED MICA 1pF $\pm$ 0.5% 500V	
" - C68	DM10C150K5	C: FXD DIPPED MICA 15pF $\pm$ 10% 500V	
" - C69	ECVIZW 10X32	C: VAR CER 10pF	
" - C70	DM10C 010D2	C: FXD DIPPED MICA 1pF $\pm$ 0.5% 200V	
" - C71	DM10C150K5	C: FXD DIPPED MICA 15pF $\pm$ 10% 500V	
" - C72	ECVIZW 10X32	C: VAR CER 10pF	
" - C73	0.01UF 50WV	C: FXD CER 0.01 μ F +80, -20% 50V	
" - C74	FD76AFIH104Z	C: FXD CER 0.1 μ F +80, -20% 50V	
SV210 - C75	FD76AFIH104Z	C: FXD CER 0.1 μ F +80, -20% 50V	

Parts No.	Stock No.	Description	
SV210 - C76	DM10C 200K5	C: FXD DIPPED MICA 20pF ±10% 500V	
" - C77	DM10D221J3	C: FXD DIPPED MICA 220pF ±5% 300V	
" - C78	DM10D 820J3	C: FXD DIPPED MICA 82pF ±5% 300V	
" - C79 thru	0.01UF 50WV	C: FXD CER 0.01μF +80, -20% 50V	
" - C87			
" - C88	DM10D 820J3	C: FXD DIPPED MICA 82pF ±5% 300V	
" - C89	0.01UF 50WV	C: FXD CER 0.01μF +80, -20% 50V	
" - C90	221M2502-106M	C: FXD ELECT TANTAL 10μF ±20% 25V	
" - C91	0.047UF 50WV	C: FXD CER 0.047μF +80, -20% 50V	
" - C92	0.047UF 50WV	C: FXD CER 0.047μF +80, -20% 50V	
" - C93	221M2502-106M	C: FXD ELECT TANTAL 10μF ±20% 25V	
" - C94	0.01UF 50WV	C: FXD CER 0.01μF +80, -20% 50V	
" - C95	0.047UF 50WV	C: FXD CER 0.047μF +80, -20% 50V	
" - C96	0.01UF 50WV	C: FXD CER 0.01μF +80, -20% 50V	
" - L100	TPO410-331J	L: FXD Coil 330μH	
" - L101	LS23	L: FXD Coil	
" - L102 thru	L10B23	L: FXD Coil	
" - L104			
" - L105	LS23	L: FXD Coil	
" - L106	CSL0609-181K	L: FXD Coil 180μH	
" - L107	CSL0609-181K	L: FXD Coil 180μH	
" - L108	CSL0609-471K	L: FXD Coil 470μH	
" - T111	L-10B-13	Transformer	
SV210 - T112	L-10B-13	Transformer	

Parts No.	Stock No.	Description	
SV210 - T113 thru " - T115	L07C-29	Transformer	
" - K121	NR-S-12V	Relay	
" - K122	NR-S-12V	Relay	
" - X131	XU-029	Crystal Resonator	
" - J136	UM-LR-PC	Connector	
" - J137	UM-R-PC	Connector	
" - C97	DM10D270J5	C: FXD DIPPED MICA 27pF $\pm 5\%$ 500V	
" - L109	LS35	L: FXD Coil	
SV210 - L110	TPFO410-331K A105	L: FXD Coil 330uH Hermetic Seal	

LOG AMP SECTION

PH089

Parts No.	Stock No.	Description	
4110-PH089-IC1	LM301A	IC:Operational Amplifier	
" Q6			
" thru	2SC2901	Transistor SI NPN	
" Q29			
" Q30	ITS30088	FET N-Channel Junction	
" Q31	2SC2901	Transistor SI NPN	
" Q32	2SC594	Transistor SI NPN	
" Q33	2SC2901	Transistor SI NPN	
" Q34	2SC2901	Transistor SI NPN	
" Q35	ITS30088	FET N-Channel Junction	
" D40	1SS97	Diode Schottky	
" D41	1SS97	Diode Schottky	
" D42	1S953	Diode SI	
" D43	1S953	Diode SI	
" D44	WZ-061	Zener Diode	
" R45	R1/4 100ΩJ	R:FXD CAR 100Ω ±5% 1/4W	
" R46	R1/4 6.8KΩJ	R:FXD CAR 6.8KΩ ±5% 1/4W	
" R47	R1/4 100ΩJ	R:FXD CAR 100Ω ±5% 1/4W	
" R48	R1/4 6.8KΩJ	R:FXD CAR 6.8KΩ ±5% 1/4W	
" R49	R1/4 12KΩJ	R:FXD CAR 12KΩ ±5% 1/4W	
" R50	R1/4 33ΩJ	R:FXD CAR 33Ω ±5% 1/4W	
" R51	P1/4 680ΩJ	R:FXD CAR 680Ω ±5% 1/4W	
" R52	R1/4 390ΩJ	R:FXD CAR 390Ω ±5% 1/4W	
" R53	R1/4 390ΩJ	R:FXD CAR 390Ω ±5% 1/4W	
" R54	R1/4 3.3KΩJ	R:FXD CAR 3.3KΩ ±5% 1/4W	
" R55	R1/4 10KΩJ	R:FXD CAR 10KΩ ±5% 1/4W	
" R56	R1/4 100ΩJ	R:FXD CAR 100Ω ±5% 1/4W	
" R57	R1/4 8.2KΩJ	R:FXD CAR 8.2KΩ ±5% 1/4W	
" R58	R1/4 100ΩJ	R:FXD CAR 100Ω ±5% 1/4W	
" R59	R1/4 6.8KΩJ	R:FXD CAR 6.8KΩ ±5% 1/4W	
" R60	R1/4 12KΩJ	R:FXD CAR 12KΩ ±5% 1/4W	
" R61	R1/4 33ΩJ	R:FXD CAR 33Ω ±5% 1/4W	
" R62	R1/4 680ΩJ	R:FXD CAR 680Ω ±5% 1/4W	
" R63	R1/4 680ΩJ	R:FXD CAR 680Ω ±5% 1/4W	
4110-PH089-R64	R1/4 390ΩJ	R:FXD CAR 390Ω ±5% 1/4W	

Parts No.	Stock No.	Description	
4110-PHO89-R65	R1/4 3.3KΩJ	R:FXD CAR 3.3KΩ ±5% 1/4W	
" R66	R1/4 10KΩJ	R:FXD CAR 10KΩ ±5% 1/4W	
" R67	R1/4 100ΩJ	R:FXD CAR 100Ω ±5% 1/4W	
" R68	R1/4 10KΩJ	R:FXD CAR 10KΩ ±5% 1/4W	
" R69	R1/4 100ΩJ	R:FXD CAR 100Ω ±5% 1/4W	
" R70	R1/4 6.8KΩJ	R:FXD CAR 6.8KΩ ±5% 1/4W	
" R71	R1/4 12KΩJ	R:FXD CAR 12KΩ ±5% 1/4W	
" R72	R1/4 680ΩJ	R:FXD CAR 680Ω ±5% 1/4W	
" R73	R1/4 33ΩJ	R:FXD CAR 33Ω ±5% 1/4W	
" R74	R1/4 680ΩJ	R:FXD CAR 680Ω ±5% 1/4W	
" R75	R1/4 390ΩJ	R:FXD CAR 390Ω ±5% 1/4W	
" R76	R1/4 3.3KΩJ	R:FXD CAR 3.3KΩ ±5% 1/4W	
" R77	R1/4 10KΩJ	R:FXD CAR 10KΩ ±5% 1/4W	
" R78	R1/4 100ΩJ	R:FXD CAR 100Ω ±5% 1/4W	
" R79	R1/4 10KΩJ	R:FXD CAR 10KΩ ±5% 1/4W	
" R80	R1/4 100ΩJ	R:FXD CAR 100Ω ±5% 1/4W	
" R81	R1/4 6.8KΩJ	R:FXD CAR 6.8KΩ ±5% 1/4W	
" R82	R1/4 12KΩJ	R:FXD CAR 12KΩ ±5% 1/4W	
" R83	R1/4 680ΩJ	R:FXD CAR 680Ω ±5% 1/4W	
" R84	R1/4 33ΩJ	R:FXD CAR 33Ω ±5% 1/4W	
" R85	R1/4 680ΩJ	R:FXD CAR 680Ω ±5% 1/4W	
" R86	R1/4 390ΩJ	R:FXD CAR 390Ω ±5% 1/4W	
" R87	R1/4 3.3KΩJ	R:FXD CAR 3.3KΩ ±5% 1/4W	
" R88	R1/4 10KΩJ	R:FXD CAR 10KΩ ±5% 1/4W	
" R89	R1/4 100ΩJ	R:FXD CAR 100Ω ±5% 1/4W	
" R90	R1/4 10KΩJ	R:FXD CAR 10KΩ ±5% 1/4W	
" R91	R1/4 100ΩJ	R:FXD CAR 100Ω ±5% 1/4W	
" R92	R1/4 6.8KΩJ	R:FXD CAR 6.8KΩ ±5% 1/4W	
" R93	R1/4 12KΩJ	R:FXD CAR 12KΩ ±5% 1/4W	
" R94	R1/4 680ΩJ	R:FXD CAR 680Ω ±5% 1/4W	
" R95	R1/4 33ΩJ	R:FXD CAR 33Ω ±5% 1/4W	
" R96	R1/4 680ΩJ	R:FXD CAR 680Ω ±5% 1/4W	
" R97	R1/4 390ΩJ	R:FXD CAR 390Ω ±5% 1/4W	
" R98	R1/4 3.3KΩJ	R:FXD CAR 3.3KΩ ±5% 1/4W	
4110-PHO89-R99	R1/4 10KΩJ	R:FXD CAR 10KΩ ±5% 1/4W	

Parts No.	Stock No.	Description	
4110-PHO89-R100	R1/4 100ΩJ	R:FXD CAR 100Ω ±5% 1/4W	
" R101	R1/4 10KΩJ	R:FXD CAR 10KΩ ±5% 1/4W	
" R102	R1/4 100ΩJ	R:FXD CAR 100Ω ±5% 1/4W	
" R103	R1/4 6.8KΩJ	R:FXD CAR 6.8KΩ ±5% 1/4W	
" R104	R1/4 12KΩJ	R:FXD CAR 12KΩ ±5% 1/4W	
" R105	R1/4 680ΩJ	R:FXD CAR 680Ω ±5% 1/4W	
" R106	R1/4 33ΩJ	R:FXD CAR 33Ω ±5% 1/4W	
" R107	R1/4 680ΩJ	R:FXD CAR 680Ω ±5% 1/4W	
" R108	R1/4 390ΩJ	R:FXD CAR 390Ω ±5% 1/4W	
" R109	R1/4 3.3KΩJ	R:FXD CAR 3.3KΩ ±5% 1/4W	
" R110	R1/4 10KΩJ	R:FXD CAR 10KΩ ±5% 1/4W	
" R111	R1/4 100ΩJ	R:FXD CAR 100Ω ±5% 1/4W	
" R112	R1/4 10KΩJ	R:FXD CAR 10KΩ ±5% 1/4W	
" R113	R1/4 100ΩJ	R:FXD CAR 100Ω ±5% 1/4W	
" R114	R1/4 6.8KΩJ	R:FXD CAR 6.8KΩ ±5% 1/4W	
" R115	R1/4 12KΩJ	R:FXD CAR 12KΩ ±5% 1/4W	
" R116	R1/4 680ΩJ	R:FXD CAR 680Ω ±5% 1/4W	
" R117	R1/4 33ΩJ	R:FXD CAR 33Ω ±5% 1/4W	
" R118	R1/4 680ΩJ	R:FXD CAR 680Ω ±5% 1/4W	
" R119	R1/4 390ΩJ	R:FXD CAR 390Ω ±5% 1/4W	
" R120	R1/4 3.3KΩJ	R:FXD CAR 3.3KΩ ±5% 1/4W	
" R121	R1/4 10KΩJ	R:FXD CAR 10KΩ ±5% 1/4W	
" R122	R1/4 100ΩJ	R:FXD CAR 100Ω ±5% 1/4W	
" R123	R1/4 10KΩJ	R:FXD CAR 10KΩ ±5% 1/4W	
" R124	R1/4 100ΩJ	R:FXD CAR 100Ω ±5% 1/4W	
" R125	R1/4 6.8KΩJ	R:FXD CAR 6.8KΩ ±5% 1/4W	
" R126	R1/4 12KΩJ	R:FXD CAR 12KΩ ±5% 1/4W	
" R127	R1/4 680ΩJ	R:FXD CAR 680Ω ±5% 1/4W	
" R128	R1/4 33Ω	R:FXD CAR 33Ω ±5% 1/4W	
" R129	R1/4 680ΩJ	R:FXD CAR 680Ω ±5% 1/4W	
" R130	R1/4 390ΩJ	R:FXD CAR 390Ω ±5% 1/4W	
" R131	R1/4 3.3KΩJ	R:FXD CAR 3.3KΩ ±5% 1/4W	
" R132	R1/4 10KΩJ	R:FXD CAR 10KΩ ±5% 1/4W	
" R133	R1/4 100ΩJ	R:FXD CAR 100Ω ±5% 1/4W	
4110-PHO89-R134	R1/4 10KΩJ	R:FXD CAR 10KΩ ±5% 1/4W	

Parts No.	Stock No.	Description	
4110-PHO89-R135	R1/4 100ΩJ	R:FXD CAR 100Ω ±5% 1/4W	
" R136	R1/4 6.8KΩJ	R:FXD CAR 6.8KΩ ±5% 1/4W	
" R137	R1/4 12KΩJ	R:FXD CAR 12KΩ ±5% 1/4W	
" R138	R1/4 680ΩJ	R:FXD CAR 680Ω ±5% 1/4W	
" R139	R1/4 33ΩJ	R:FXD CAR 33Ω ±5% 1/4W	
" R140	R1/4 680ΩJ	R:FXD CAR 680Ω ±5% 1/4W	
" R141	R1/4 390ΩJ	R:FXD CAR 390Ω ±5% 1/4W	
" R142	R1/4 3.3KΩJ	R:FXD CAR 3.3KΩ ±5% 1/4W	
" R143	R1/4 10KΩJ	R:FXD CAR 10KΩ ±5% 1/4W	
" R144	R1/4 100ΩJ	R:FXD CAR 100Ω ±5% 1/4W	
" R145	R1/4 10KΩJ	R:FXD CAR 10KΩ ±5% 1/4W	
" R146	R1/4 100ΩJ	R:FXD CAR 100Ω ±5% 1/4W	
" R147	R1/4 6.8KΩJ	R:FXD CAR 6.8KΩ ±5% 1/4W	
" R148	R1/4 12KΩJ	R:FXD CAR 12KΩ ±5% 1/4W	
" R149	R1/4 680ΩJ	R:FXD CAR 680Ω ±5% 1/4W	
" R150	R1/4 33ΩJ	R:FXD CAR 33Ω ±5% 1/4W	
" R151	R1/4 680ΩJ	R:FXD CAR 680Ω ±5% 1/4W	
" R152	R1/4 390ΩJ	R:FXD CAR 390Ω ±5% 1/4W	
" R153	R1/4 3.3KΩJ	R:FXD CAR 3.3KΩ ±5% 1/4W	
" R154	R1/4 10KΩJ	R:FXD CAR 10KΩ ±5% 1/4W	
" R155	R1/4 10KΩJ	R:FXD CAR 10KΩ ±5% 1/4W	
" R156	R1/4 330ΩJ	R:FXD CAR 330Ω ±5% 1/4W	
" R157	R1/4 1KΩJ	R:FXD CAR 1KΩ ±5% 1/4W	
" R158	R1/4 3.3KΩJ	R:FXD CAR 3.3KΩ ±5% 1/4W	
" R159	R1/4 2.2KΩJ	R:FXD CAR 2.2KΩ ±5% 1/4W	
" R160	R1/4 4.7KΩJ	R:FXD CAR 4.7KΩ ±5% 1/4W	
" R161	R1/4 4.7KΩJ	R:FXD CAR 4.7KΩ ±5% 1/4W	
" R162	R1/4 330ΩJ	R:FXD CAR 330Ω ±5% 1/4W	
" R163	R1/4 270ΩJ	R:FXD CAR 270Ω ±5% 1/4W	
" R164	R1/4 4.7KΩJ	R:FXD CAR 4.7KΩ ±5% 1/4W	
" R165	R1/4 2.2KΩJ	R:FXD CAR 2.2KΩ ±5% 1/4W	
" R166	R1/4 4.7KΩJ	R:FXD CAR 4.7KΩ ±5% 1/4W	
" R167	R1/4 3.3KΩJ	R:FXD CAR 3.3KΩ ±5% 1/4W	
" R168	R1/4 1KΩJ	R:FXD CAR 1KΩ ±5% 1/4W	
4110-PHO89-R169	R1/4 330ΩJ	R:FXD CAR 330Ω ±5% 1/4W	

Parts No.	Stock No.	Description	
4110-PH089-R170			
thru	R1/4 100ΩJ	R:FXD CAR 100Ω ±5% 1/4W	
" R172			
" R173	R1/4 470ΩJ	R:FXD CAR 470Ω ±5% 1/4W	
" R174	R1/4 10KΩJ	R:FXD CAR 10KΩ ±5% 1/4W	
" R175	R1/2 1MΩJ	R:FXD CAR 1MΩ ±5% 1/2W	
" R176	R1/4 100ΩJ	R:FXD CAR 100Ω ±5% 1/4W	
" R177		Not Assigned	
" R178	R1/4 51ΩJ	R:FXD CAR 51Ω ±5% 1/4W	
" R179	R1/4 6.8KΩJ	R:FXD CAR 6.8KΩ ±5% 1/4W	
" R180	R1/4 1KΩJ	R:FXD CAR 1KΩ ±5% 1/4W	
" R181	R1/4 150ΩJ	R:FXD CAR 150Ω ±5% 1/4W	
" R182	R1/4 680ΩJ	R:FXD CAR 680Ω ±5% 1/4W	
" R183	3321-H-501	R:VAR 500Ω ±20% 1/2W	
" R184	R1/4 100ΩJ	R:FXD CAR 100Ω ±5% 1/4W	
" R185	R1/4 7.5KΩJ	R:FXD CAR 7.5KΩ ±5% 1/4W	
" R186	R1/4 1KΩJ	R:FXD CAR 1KΩ ±5% 1/4W	
" R187	R1/4 3.3KΩJ	R:FXD CAR 3.3KΩ ±5% 1/4W	
" R188	R1/4 180ΩJ	R:FXD CAR 180Ω ±5% 1/4W	
" R189	R1/4 330ΩJ	R:FXD CAR 330Ω ±5% 1/4W	
" R190	R1/4 100ΩJ	R:FXD CAR 100Ω ±5% 1/4W	
" R191	3321H-201	R:VAR 200Ω ±20% 1/2W	
" R192	R1/4 10KΩJ	R:FXD CAR 10KΩ ±5% 1/4W	
" R193	R1/4 1.2KΩJ	R:FXD CAR 1.2KΩ ±5% 1/4W	
" R194	R1/4 2.7KΩJ	R:FXD CAR 2.7KΩ ±5% 1/4W	
" R195	R1/4 10KΩJ	R:FXD CAR 10KΩ ±5% 1/4W	
" R196	R1/4 4.7KΩJ	R:FXD CAR 4.7KΩ ±5% 1/4W	
" R197	R1/4 100ΩJ	R:FXD CAR 100Ω ±5% 1/4W	
" R198	R1/4 100ΩJ	R:FXD CAR 100Ω ±5% 1/4W	
" R199	R1/4 1KΩJ	R:FXD CAR 1KΩ ±5% 1/4W	
" R200	R1/4 1KΩJ	R:FXD CAR 1KΩ ±5% 1/4W	
" R201	R1/4 3.3KΩJ	R:FXD CAR 3.3KΩ ±5% 1/4W	
" R202	R1/4 3.3KΩJ	R:FXD CAR 3.3KΩ ±5% 1/4W	
" R203	R1/4 10KΩJ	R:FXD CAR 10KΩ ±5% 1/4W	
4110-PH089-R204	3321-H-502	R:VAR 5KΩ ±20% 1/2W	

Parts No.	Stock No.	Description	
4110-PH089-R205	R1/4 15KΩJ	R: FXD CAR 15KΩ ±5% 1/4W	
" " R206	R1/4 47KΩJ	R: FXD CAR 47KΩ ±5% 1/4W	
" " R207	R1/4 3.3KΩJ	R: FXD CAR 3.3KΩ ±5% 1/4W	
" " R208	3321-H-502	R: VAR 5KΩ ±20% 1/2W	
" " R209	R1/4 22KΩJ	R: FXD CAR 22KΩ ±5% 1/4W	
" " R210	R1/4 10KΩJ	R: FXD CAR 10KΩ ±5% 1/4W	
" " R211	R1/4 10KΩJ	R: FXD CAR 10KΩ ±5% 1/4W	
" " R212 thru R215		Not Assigned	
" " R216	R1/4 100ΩJ	R: FXD CAR 100Ω ±5% 1/4W	
" " R217	R1/4 3.3KΩJ	R: FXD CAR 3.3KΩ ±5% 1/4W	
" " R218	R1/4 6.8KΩJ	R: FXD CAR 6.8KΩ ±5% 1/4W	
" " R219	R1/4 3.3KΩJ	R: FXD CAR 3.3KΩ ±5% 1/4W	
" " R220	R1/4 2.2KΩJ	R: FXD CAR 2.2KΩ ±5% 1/4W	
" " R221	R1/4 1.5KΩJ	R: FXD CAR 1.5KΩ ±5% 1/4W	
" " R222	R1/4 4.7KΩJ	R: FXD CAR 4.7KΩ ±5% 1/4W	
" " R223		Not assigned	
" " R224		Not assigned	
" " R225	R1/4 10KΩJ	R: FXD CAR 10KΩ ±5% 1/4W	
" " R226	R1/4 15KΩJ	R: FXD CAR 15KΩ ±5% 1/4W	
" " R227	3321H-101	R: VAR 100Ω ±20% 1/2W	
" " C232	25TH10	C: FXD ELECT 10μF 25V	
" " C233	FD76AF1H104Z	C: FXD CER 0.1μF +80, -20% 50V	
" " C234	25TH10	C: FXD ELECT 10μF 25V	
" " C235 thru C245	FD76AF1H104Z	C: FXD CER 0.1μF +80, -20% 50V	
" " C246 thru C248	SC80YZ103P	C: FXD CER 0.01μF +100, -0% 50V	
" " C249	FC90SL331K	C: FXD CER 330pF ±10% 50V	
" " C250	SC80YZ103P	C: FXD CER 0.01μF +100, -0% 50V	
" " C251	SC80YZ103P	C: FXD CER 0.01μF +100, -0% 50V	
" " C252	FC90YZ331K	C: FXD CER 330pF ±10% 50V	
4110-PH089-C253	SC80YZ103P	C: FXD CER 0.01μF +100, -0% 50V	

Parts No.	Stock No.	Description	
4110-PH089-C254	SC80YZ103P	C:FXD CER 0.01 μ F +100, -0% 50V	
" C255	FC90YZ331K	C:FXD CER 330pF $\pm$ 10% 50V	
" C256	SC80YZ103P	C:FXD CER 0.01 μ F +100, -0% 50V	
" C257	SC80YZ103P	C:FXD CER 0.01 μ F +100, -0% 50V	
" C258	FC90SL331K	C:FXD CER 330pF $\pm$ 10% 50V	
" C259	SC80YZ103P	C:FXD CER 0.01 μ F +100, -0% 50V	
" C260	SC80YZ103P	C:FXD CER 0.01 μ F +100, -0% 50V	
" C261	FC90SL331K	C:FXD CER 330pF $\pm$ 10% 50V	
" C262	SC80YZ103P	C:FXD CER 0.01 μ F +100, -0% 50V	
" C263	SC80YZ103P	C:FXD CER 0.01 μ F +100, -0% 50V	
" C264	FC90YZ331K	C:FXD CER 330pF $\pm$ 10% 50V	
" C265	SC80YZ103P	C:FXD CER 0.01 μ F +100, -0% 50V	
" C266	SC80YZ103P	C:FXD CER 0.01 μ F +100, -0% 50V	
" C267	FC90SL331K	C:FXD CER 330pF $\pm$ 10% 50V	
" C268	SC80YZ103P	C:FXD CER 0.01 μ F +100, -0% 50V	
" C269	SC80YZ103P	C:FXD CER 0.01 μ F +100, -0% 50V	
" C270	FC90SL331K	C:FXD CER 330pF $\pm$ 10% 50V	
" C271	SC80YZ103P	C:FXD CER 0.01 μ F +100, -0% 50V	
" C272	SC80YZ103P	C:FXD CER 0.01 μ F +100, -0% 50V	
" C273	FC90SL331K	C:FXD CER 330pF $\pm$ 10% 50V	
" C274			
thru	SC80YZ103P	C:FXD CER 0.01 μ F +100, -0% 50V	
" C283			
" C284	FC50SL330K	C:FXD CER 33pF $\pm$ 10% 50V	
" C285	FD76AF1H104Z	C:FXD CER 0.1 μ F +80, -20% 50V	
" C286	FD76AF1H104Z	C:FXD CER 0.1 μ F +80, -20% 50V	
" C287	SC80YZ103P	C:FXD CER 0.01 μ F +100, -0% 50V	
" C288	SC80YZ103P	C:FXD CER 0.01 μ F +100, -0% 50V	
" C289	FD76AF1H104Z	C:FXD CER 0.1 μ F +80, -20% 50V	
" C290	FD76AF1H104Z	C:FXD CER 0.1 μ F +80, -20% 50V	
" C291	SC80YZ103P	C:FXD CER 0.01 μ F +100, -0% 50V	
" C292	DM10CD360J3	C:FXD DIPPED MICA 36pF $\pm$ 5% 300V	
" C293	ECV1ZW20P12	C:VAR CER 20pF 500V	
" C294	FC100SL 471K	C:FXD CER 470pF $\pm$ 10% 50V	
" C295	FD76AF1H104Z	C:FXD CER 0.1 μ F +80, -20% 50V	
4110-PH089-C296	SC80YZ103P	C:FXD CER 0.01 μ F +100, -0% 50V	

Parts No.	Stock No.	Description	
4110-PH089-C297			
" " thru C299	FD76AFTH104Z	C: FXD CER 0.1 μ F +80, -20% 50V	
" " C300	SC80YZ103P	C: FXD CER 0.01 μ F +100, -0% 50V	
" " C301	FD76AFTH104Z	C: FXD CER 0.1 μ F +80, -20% 50V	
" " C302		Not assigned	
" " C303	DM05C200K3	C: FXD DIPPED MICA 20pF $\pm$ 10% 300V	
" " C304		Not assigned	
" " C305	DM05C200J3	C: FXD DIPPED MICA 20pF $\pm$ 5% 300V	
" " C306	DM05C200J3	C: FXD DIPPED MICA 20pF $\pm$ 5% 300V	
" " C307	FC50SL330K	C: FXD CER 33pF $\pm$ 10% 50V	
" " C308		Not assigned	
" " C309	DM10C680J3	C: FXD DIPPED MICA 68pF $\pm$ 5% 300V	
" " C310	25TH10	C: FXD ELECT 10 μ F 25V	
" " C311	25TH10	C: FXD ELECT 10 μ F 25V	
" " C312			
" " thru C314	DM100510J3	C: FXD DIPPED MICA 51pF $\pm$ 5% 300V	
" " C315			
" " thru C319	SC80YZ103P	C: FXD CER 0.01 μ F +100, -0% 50V	
" " C320	25TH10	C: FXD ELECT 10 μ F 25V	
" " C321			
" " thru C328	SC80YZ103P	C: FXD CER 0.01 μ F +100, -0% 50V	
" " L332	LT-D200	L: FXD Coil 200 μ H	
" " L333			
" " thru L336	LT-500	L: FXD Coil 500 μ F	
" " L337	TPF0410-330K	L: FXD Coil 330 μ H	
" " L338	TPF-0410-8R2K	L: FXD Coil	
" " L339	LF-16	L: FXD Coil 28.8 μ H	
" " J351	UM-LR-PC	Connector	
" " J352		Not Assigned	
" " K346	RR-1213	Relay	
4110-PH089-K347	RR-1213	Relay	

Parts No.	Stock No.	Description	
4110-PH089-R212	R25 220ΩJ	R: FXD CAR 220Ω ±5% 1/4W	
" " C329	DM10D271J3	C: FXD DIPPED MICA 270pF ±5% 300V	
4110-PH089-L338	TPF0410L-8R2K	L: FXD Coil 8.2nH	

TR4110
CRT DRIVER
PG082-01

Parts No.	Stock No.	Description	
PG082-IC1	LM318H	IC:Operational Amplifier	
" -Q6	2SC1959	Transistor SI NPN	
" -Q7	2SC1815GR	Transistor SI NPN	
" -Q8	2SC510	Transistor SI NPN	
" -Q9	2SA603	Transistor SI PNP	
" -Q10	2SC1959	Transistor SI NPN	
" -Q11 thru	2SC1815GR	Transistor SI NPN	
" -Q14			
" -Q15	2SC505	Transistor SI NPN	
" -Q16	2SC505	Transistor SI NPN	
" -Q17 thru	2SC1815GR	Transistor SI NPN	
" -Q20			
" -Q21	2SC505	Transistor SI NPN	
" -Q22	2SC505	Transistor SI NPN	
" -Q23	2SC1815GR	Transistor SI NPN	
" -Q24	2SC1815GR	Transistor SI NPN	
" -Q25	2SA1015	Transistor SI PNP	
" -Q26	2SC1815GR	Transistor SI NPN	
" -Q27	2SC1815GR	Transistor SI NPN	
" -Q28	2SC1279	Transistor SI NPN	
" -Q29	2SC1279	Transistor SI NPN	
" -Q30	2SC1815GR	Transistor SI NPN	
" -Q31	2SC1279	Transistor SI NPN	
" -Q32	2SC1815GR	Transistor SI NPN	
" -D41	1S953	Diode SI	
" -D42	WZ-081	Zener Diode	
" -D43 thru	1S953	Diode SI	
" -D48			
" -D49		Not assigned	
" -D50 thru	1S953	Diode SI	
" -D56			
PG082-R61	SN14K2E10KQF	R:FXD Metal FLM 10K Ω $\pm 1\%$ 1/4W	

Parts No.	Stock No.	Description	
PG082-R62	X6S 100Ω	R:VAR WW 100Ω	
" -R63	SN14K2E4.3KΩF	R:FXD Metal FLM 4.3kΩ ±1% 1/4W	
" -R64	RD25S 220ΩJ	R:FXD CAR 220Ω ±5% 1/4W	
" -R65	RD25S 100KΩJ	R:FXD CAR 100kΩ ±5% 1/4W	
" -R66	RJ6X 50KΩJ	R:VAR CERMET 50kΩ	
" -R67	RD25S 56KΩJ	R:FXD CAR 56kΩ ±5% 1/4W	
" -R68	X6S 10KΩJ	R:VAR CERMET 10kΩ	
" -R69	RD25S 22KΩJ	R:FXD CAR 22kΩ ±5% 1/4W	
" -R70	X6S 5KΩK	R:VAR WW 5kΩ	
" -R71	RD25S 12KΩJ	R:FXD CAR 12kΩ ±5% 1/4W	
" -R72	RD25S 10KΩJ	R:FXD CAR 10kΩ ±5% 1/4W	
" -R73	RD25S 560ΩJ	R:FXD CAR 560Ω ±5% 1/4W	
" -R74	RD25S 10KΩJ	R:FXDCCAR 10kΩ ±5% 1/4W	
" -R75	RD25S 220ΩJ	R:FXD CAR 220Ω ±5% 1/4W	
" -R76	RD25S 15KΩJ	R:FXD CAR 15kΩ ±5% 1/4W	
" -R77	RD25S 39KΩJ	R:FXD CAR 39kΩ ±5% 1/4W	
" -R78	RD25S 390ΩJ	R:FXD CAR 390Ω ±5% 1/4W	
" -R79	RD25S 100ΩJ	R:FXD CAR 100Ω ±5% 1/4W	
" -R80	RD25S 220ΩJ	R:FXD CAR 220Ω ±5% 1/4W	
" -R81 thru		Not assigned	
" -R83			
" -R84	RD25S 820ΩJ	R:FXD CAR 820Ω ±5% 1/4W	
" -R85	RD25S 1KΩJ	R:FXD CAR 1kΩ ±5% 1/4W	
" -R86	SN14K2E 5.1KΩF	R:FXD Metal FLM 5.1kΩ ±1% 1/4W	
" -R87	RD25S 3.3KΩJ	R:FXD CAR 3.3kΩ ±5% 1/4W	
" -R88	RD25S 2.2KΩJ	R:FXD CAR 2.2kΩ ±5% 1/4W	
" -R89	X6S 500Ω	R:VAR WW 500Ω	
" -R90	RD25S 1.2KΩJ	R:FXD CAR 1.2kΩ ±5% 1/4W	
" -R91	RD25S 10KΩJ	R:FXD CAR 10kΩ ±5% 1/4W	
" -R92	RD25S 2.2KΩJ	R:FXD CAR 2.2kΩ ±5% 1/4W	
" -R93	RD25S 120ΩJ	R:FXD CAR 120Ω ±5% 1/4W	
" -R94	RSF2B10KΩJ	R:FXD Metal FLM 10kΩ ±5% 2W	
PG082-R95	RD25S 100ΩJ	R:FXD CAR 100Ω ±5% 1/4W	

Parts No.	Stock No.	Description	
PG082-R96	RD25S 820ΩJ	R:FXD CAR 820Ω $\pm 5\%$ 1/4W	
" -R97	RD25S 1.5KΩJ	R:FXD CAR 1.5kΩ $\pm 5\%$ 1/4W	
" -R98	RD25S 18KΩJ	R:FXD CAR 18kΩ $\pm 5\%$ 1/4W	
" -R99	RD25S 15KΩJ	R:FXD CAR 15kΩ $\pm 5\%$ 1/4W	
" -R100	RD25S 1.5KΩJ	R:FXD CAR 1.5kΩ $\pm 5\%$ 1/4W	
" -R101	RD25S 3.3KΩJ	R:FXD CAR 3.3kΩ $\pm 5\%$ 1/4W	
" -R102	RD25S 5.6KΩJ	R:FXD CAR 5.6kΩ $\pm 5\%$ 1/4W	
" -R103	RD25S 100ΩJ	R:FXD CAR 100Ω $\pm 5\%$ 1/4W	
" -R104	RSF2B10KΩJ	R:FXD Metal FLM 10kΩ $\pm 5\%$ 2W	
" -R105	RD25S 120ΩJ	R:FXD CAR 120Ω $\pm 5\%$ 1/4W	
" -R106	RD25S 510ΩJ	R:FXD CAR 510Ω $\pm 5\%$ 1/4W	
" -R107	RD25S 4.7KΩJ	R:FXD CAR 4.7kΩ $\pm 5\%$ 1/4W	
" -R108	RD25S 1KΩJ	R:FXD CAR 1kΩ $\pm 5\%$ 1/4W	
" -R109	RD25S 120ΩJ	R:FXD CAR 120Ω $\pm 5\%$ 1/4W	
" -R110	RD1S 33KΩJ	R:FXD CAR 33kΩ $\pm 5\%$ 1W	
" -R111	RD25S 100ΩJ	R:FXD CAR 100Ω $\pm 5\%$ 1/4W	
" -R112	RD25S 2.7KΩJ	R:FXD CAR 2.7kΩ $\pm 5\%$ 1/4W	
" -R113	RD25S 1.5KΩJ	R:FXD CAR 1.5kΩ $\pm 5\%$ 1/4W	
" -R114	RD25S 12KΩJ	R:FXD CAR 12kΩ $\pm 5\%$ 1/4W	
" -R115	RD25S 5.6KΩJ	R:FXD CAR 5.6kΩ $\pm 5\%$ 1/4W	
" -R116	RD25S 1.5KΩJ	R:FXD CAR 1.5kΩ $\pm 5\%$ 1/4W	
" -R117	RD25S 5.6KΩJ	R:FXD CAR 5.6kΩ $\pm 5\%$ 1/4W	
" -R118	RD25S 10KΩJ	R:FXD CAR 10kΩ $\pm 5\%$ 1/4W	
" -R119	RD25S 100ΩJ	R:FXD CAR 100Ω $\pm 5\%$ 1/4W	
" -R120	RD1S 33KΩJ	R:FXD CAR 33kΩ $\pm 5\%$ 1/4W	
" -R121	RD25S 120ΩJ	R:FXD CAR 120Ω $\pm 5\%$ 1/4W	
" -R122	RD25S 10KΩJ	R:FXD CAR 10kΩ $\pm 5\%$ 1/4W	
" -R123	RD25S 470ΩJ	R:FXD CAR 470Ω $\pm 5\%$ 1/4W	
" -R124	RD25S 470ΩJ	R:FXD CAR 470Ω $\pm 5\%$ 1/4W	
" -R125	RD25S 10KΩJ	R:FXD CAR 10kΩ $\pm 5\%$ 1/4W	
" -R126	RD25S 4.7KΩJ	R:FXD CAR 4.7kΩ $\pm 5\%$ 1/4W	
" -R127	RD25S 10KΩJ	R:FXD CAR 10kΩ $\pm 5\%$ 1/4W	
" -R128	RD25S 10KΩJ	R:FXD CAR 10kΩ $\pm 5\%$ 1/4W	
PG082-R129	RD25S 2.2KΩJ	R:FXD CAR 2.2kΩ $\pm 5\%$ 1/4W	

Parts No.	Stock No.	Description	
PG082-R130	RD25S 3.3KΩJ	R:FXD CAR 3.3kΩ ±5% 1/4W	
" -R131	RD25S 15KΩJ	R:FXD CAR 15kΩ ±5% 1/4W	
" -R132	RD25S 2.2KΩJ	R:FXD CAR 2.2kΩ ±5% 1/4W	
" -R133	RD25S 2.2KΩJ	R:FXD CAR 2.2kΩ ±5% 1/4W	
" -R134	RD25S 2.7KΩJ	R:FXD CAR 2.7kΩ ±5% 1/4W	
" -R135	RD25S 8.2KΩJ	R:FXD CAR 8.2kΩ ±5% 1/4W	
" -R136	RD25S 2.7KΩJ	R:FXD CAR 2.7kΩ ±5% 1/4W	
" -R137	RD25S 56KΩJ	R:FXD CAR 56kΩ ±5% 1/4W	
" -R138	RD25S 2.2KΩJ	R:FXD CAR 2.2kΩ ±5% 1/4W	
" -R139	RD25S 4.7KΩJ	R:FXD CAR 4.7kΩ ±5% 1/4W	
" -R140 thru	RD25S 10KΩJ	R:FXD CAR 10kΩ ±5% 1/4W	
" -R143			
" -R144	RD25S 150ΩJ	R:FXD CAR 150Ω ±5% 1/4W	
" -R145	RD25S 10KΩJ	R:FXD CAR 10kΩ ±5% 1/4W	
" -R146	RD25S 10KΩJ	R:FXD CAR 10kΩ ±5% 1/4W	
" -R147	RD25S 3.3KΩJ	R:FXD CAR 3.3kΩ ±5% 1/4W	
" -R148	RD25S 3.3KΩJ	R:FXD CAR 3.3kΩ ±5% 1/4W	
" -R149	RD25S 68KΩJ	R:FXD CAR 68kΩ ±5% 1/4W	
" -C161 thru	0.01UF 50WV	R:FXD CER 0.01μF +80, -20% 50V	
" -C163			
" -C164		Not assigned	
" -C165	111M3502-476M	C:FXD ELECT TANTAL 47μF ±20% 35V	
" -C166	111M5002-475M	C:FXD ELECT TANTAL 4.7μF ±20% 50V	
" -C167	0.047UF 50WV	C:FXD CER 0.047μF +80, -20% 50V	
" -C168 thru	0.01UF 50WV	C:FXD CER 0.01μF +80, -20% 50V	
" -C170			
" -C171	DM10C100K5	C:FXD DIPPED MICA 10pF ±10% 500V	
" -C172	0.01UF 50WV	C:FXD CER 0.01μF +80, -20% 50V	
" -C173 thru	0.01UF 50WV	C:FXD CER 0.01μF +80, -20% 50V	
" -C175			
" -C176	DM10C100K5	C:FXD DIPPED MICA 10pF ±10% 500V	
PG082-C177	FD76AF1H104Z	C:FXD CER 1μF +80, -20% 50V	

Parts No.	Stock No.	Description	
PG082-C178	0.01UF 500WV	C:FXD CER 0.01 μ F +80, -20% 500V	
" -C179 thru	0.01UF 50WV	C:FXD CER 0.01 μ F +80, -20% 50V	
" -C183			
" -C184	25T10	C:FXD ELECT 10 μ F 25V	
" -C185	0.01UF 50WV	C:FXD CER 0.01 μ F +80, -20% 50V	
" -C186	25T1	C:FXD ELECT 1 μ F 25V	
" -C187	25T10	C:FXD ELECT 10 μ F 25V	
" -C188	0.01UF 50WV	C:FXD CER 0.01 μ F +80, -20% 50V	
" -C189	0.01UF 50WV	C:FXD CER 0.01 μ F +80, -20% 50V	
" -C190	470PF 50WV	C:FXD CER 470pF $\pm$ 10% 50V	
" -C191	470PF 50WV	C:FXD CER 470pF $\pm$ 10% 50V	
" -C192	0.01UF 50WV	C:FXD CER 0.01 μ F +80, -20% 50V	
" -C193	25T10	C:FXD ELECT 10 μ F 25V	
" -C194	25T10	C:FXD ELECT 10 μ F 25V	
" -C195	0.01UF 50WV	C:FXD CER 0.01 μ F +80, -20% 50V	
" -C196	47PF 50WV	C:FXD CER 47pF $\pm$ 10% 50V	
" -L201 thru PG082-L203	CSL0609-181K	L:FXD Coil 180 μ H	

TR4110M
CRT DRIVER
PG082-02

Parts No.	Stock No.	Description	
PG082-IC1	LM318H	IC:Operational Amplifier	
" -Q6	2SC1959	Transistor SI NPN	
" -Q7	2SC1815GR	Transistor SI NPN	
" -Q8	2SC510	Transistor SI NPN	
" -Q9	2SA603	Transistor SI PNP	
" -Q10	2SC1959	Transistor SI NPN	
" -Q11 thru	2SC1815GR	Transistor SI NPN	
" -Q14			
" -Q15	2SC505	Transistor SI NPN	
" -Q16	2SC505	Transistor SI NPN	
" -Q17 thru	2SC1815GR	Transistor SI NPN	
" -Q20			
" -Q21	2SC505	Transistor SI NPN	
" -Q22	2SC505	Transistor SI NPN	
" -Q23	2SC1815GR	Transistor SI NPN	
" -Q24	2SC1815GR	Transistor SI NPN	
" -Q25	2SA1015	Transistor SI PNP	
" -Q26	2SC1815GR	Transistor SI NPN	
" -Q27	2SC1815GR	Transistor SI NPN	
" -Q28	2SC1279	Transistor SI NPN	
" -Q29	2SC1279	Transistor SI NPN	
" -Q30		Not assigned	
" -Q31	2SC1279	Transistor SI NPN	
" -Q32	2SC1815GR	Transistor SI NPN	
" -D41	1S953	Diode SI	
" -D42	WZ-081	Zener Diode	
" -D43 thru	1S953	Diode SI	
" -D56			
" -R61	SN14K2E10K Ω F	R:FXD Metal FLM 10k Ω $\pm 1\%$ 1/4W	
" -R62	X6S100 Ω	R:VAR WW 100 Ω	
" -R63	SN14K2E4.3K Ω F	R:FXD Metal FLM 4.3k Ω $\pm 1\%$ 1/4W	
PG082-R64	RD25S 220 Ω J	R:FXD CAR 220 Ω $\pm 5\%$ 1/4W	

Parts No.	Stock No.	Description	
PG082-R65	RD25S 100KΩJ	R:FXD CAR 100kΩ ±5% 1/4W	
" -R66	RJ6X 50KΩJ	R:VAR CERMET 50kΩ	
" -R67	RD25S 56KΩJ	R:FXD CAR 56kΩ ±5% 1/4W	
" -R68	X6S 10KΩJ	R:VAR WW 10kΩ	
" -R69	RD25S 22KΩJ	R:FXD CAR 22kΩ ±5% 1/4W	
" -- 70	X6S 5KΩJ	R:VAR WW 5kΩ	
" -R71	RD25S 12KΩJ	R:FXD CAR 12kΩ ±5% 1/4W	
" -R72	RD25S 10KΩJ	R:FXD CAR 10kΩ ±5% 1/4W	
" -R73	RD25S 560ΩJ	R:FXD CAR 560Ω ±5% 1/4W	
" -R74	RD25S 10KΩJ	R:FXD CAR 10kΩ ±5% 1/4W	
" -R75	RD25S 220ΩJ	R:FXD CAR 220Ω ±5% 1/4W	
" -R76	RD25S 15KΩJ	R:FXD CAR 15kΩ ±5% 1/4W	
" -R77	RD25S 39KΩJ	R:FXD CAR 39kΩ ±5% 1/4W	
" -R78	RD25S 390ΩJ	R:FXD CAR 390Ω ±5% 1/4W	
" -R79	RD25S 100ΩJ	R:FXD CAR 100Ω ±5% 1/4W	
" -R80	RD25S 220ΩJ	R:FXD CAR 220Ω ±5% 1/4W	
" -R81	RD25S 15KΩJ	R:FXD CAR 15kΩ ±5% 1/4W	
" -R82	RD25S 1.2KΩJ	R:FXD CAR 1.2kΩ ±5% 1/4W	
" -R83	RD25S 1.5KΩJ	R:FXD CAR 1.5kΩ ±5% 1/4W	
" -R84	RD25S 820ΩJ	R:FXD CAR 820Ω ±5% 1/4W	
" -R85	RD25S 1kΩJ	R:FXD CAR 1kΩ ±5% 1/4W	
" -R86	SN14K2E5.1KΩF	R:FXD Metal FLM 5.1kΩ ±1% 1/4W	
" -R87	RD25S 3.3KΩJ	R:FXD CAR 3.3kΩ ±5% 1/4W	
" -R88	RD25S 2.2KΩJ	R:FXD CAR 2.2kΩ ±5% 1/4W	
" -R89	X6S 500Ω	R:VAR WW 500Ω	
" -R90	RD25S 1.2KΩJ	R:FXD CAR 1.2kΩ ±5% 1/4W	
" -R91	RD25S 10KΩJ	R:FXD CAR 10kΩ ±5% 1/4W	
" -R92	RD25S 2.2KΩJ	R:FXD CAR 2.2kΩ ±5% 1/4W	
" -R93	RD25S 120ΩJ	R:FXD CAR 120Ω ±5% 1/4W	
" -R94	RSF2B10KΩJ	R:FXD Metal FLM 10kΩ ±5% 2W	
" -R95	RD25S 100ΩJ	R:FXD CAR 100Ω ±5% 1/4W	
" -R96	RD25S 820ΩJ	R:FXD CAR 820Ω ±5% 1/4W	
" -R97	RD25S 1.5KΩJ	R:FXD CAR 1.5kΩ ±5% 1/4W	
PG082-R98	RD25S 12KΩJ	R:FXD CAR 12kΩ ±5% 1/4W	

Parts No.	Stock No.	Description	
PG082-R99	RD25S 15KΩJ	R:FXD CAR 15kΩ ±5% 1/4W	
" -R100	RD25S 1.5KΩJ	R:FXD CAR 1.5kΩ ±5% 1/4W	
" -R101	RD25S 3.3KΩJ	R:FXD CAR 3.3kΩ ±5% 1/4W	
" -R102	RD25S 5.6KΩJ	R:FXD CAR 5.6kΩ ±5% 1/4W	
" -R103	RD25S 100ΩJ	R:FXD CAR 100Ω ±5% 1/4W	
" -R104	RSF2B10KΩJ	R:FXD Metal FLM 10kΩ ±5% 2W	
" -R105	RD25S 120ΩJ	R:FXD CAR 120Ω ±5% 1/4W	
" -R106	RD25S 510ΩJ	R:FXD CAR 510Ω ±5% 1/4W	
" -R107	RD25S 4.7KΩJ	R:FXD CAR 4.7kΩ ±5% 1/4W	
" -R108	RD25S 1KΩJ	R:FXD CAR 1kΩ ±5% 1/4W	
" -R109	RD25S 120ΩJ	R:FXD CAR 120Ω ±5% 1/4W	
" -R110	RD1S 10KΩJ	R:FXD CAR 10kΩ ±5% 1W	
" -R111	RD25S 100ΩJ	R:FXD CAR 100Ω ±5% 1/4W	
" -R112	RD25S 1.2KΩJ	R:FXD CAR 1.2kΩ ±5% 1/4W	
" -R113	RD25S 1.5KΩJ	R:FXD CAR 1.5kΩ ±5% 1/4W	
" -R114	RD25S 10KΩJ	R:FXD CAR 10kΩ ±5% 1/4W	
" -R115	RD25S 5.6KΩJ	R:FXD CAR 5.6kΩ ±5% 1/4W	
" -R116	RD25S 1.5KΩJ	R:FXD CAR 1.5kΩ ±5% 1/4W	
" -R117	RD25S 5.6KΩJ	R:FXD CAR 5.6kΩ ±5% 1/4W	
" -R118	RD25S 10KΩJ	R:FXD CAR 10kΩ ±5% 1/4W	
" -R119	RD25S 100ΩJ	R:FXD CAR 100Ω ±5% 1/4W	
" -R120	RD1S 10KΩJ	R:FXD CAR 10kΩ ±5% 1W	
" -R121	RD25S 120ΩJ	R:FXD CAR 120Ω ±5% 1/4W	
" -R122	RD25S 10KΩJ	R:FXD CAR 10kΩ ±5% 1/4W	
" -R123	RD25S 470ΩJ	R:FXD CAR 470Ω ±5% 1/4W	
" -R124	RD25S 470ΩJ	R:FXD CAR 470Ω ±5% 1/4W	
" -R125	RD25S 10KΩJ	R:FXD CAR 10kΩ ±5% 1/4W	
" -R126	RD25S 4.7KΩJ	R:FXD CAR 4.7kΩ ±5% 1/4W	
" -R127	RD25S 10KΩJ	R:FXD CAR 10kΩ ±5% 1/4W	
" -R128	RD25S 10KΩJ	R:FXD CAR 10kΩ ±5% 1/4W	
" -R129	RD25S 2.2KΩJ	R:FXD CAR 2.2kΩ ±5% 1/4W	
" -R130	RD25S 3.3KΩJ	R:FXD CAR 3.3kΩ ±5% 1/4W	
" -R131	RD25S 15KΩJ	R:FXD CAR 15kΩ ±5% 1/4W	
PG082-R132	RD25S 2.2KΩJ	R:FXD CAR 2.2kΩ ±5% 1/4W	

Parts No.	Stock No.	Description	
PG082-R133	RD25S 2.2KΩJ	R:FXD CAR 2.2kΩ $\pm 5\%$ 1/4W	
" -R134	RD25S 2.7KΩJ	R:FXD CAR 2.7kΩ $\pm 5\%$ 1/4W	
" -R135	RD25S 8.2KΩJ	R:FXD CAR 8.2kΩ $\pm 5\%$ 1/4W	
" -R136	RD25S 2.7KΩJ	R:FXD CAR 2.7KΩ $\pm 5\%$ 1/4W	
" -R137	RD25S 56KΩJ	R:FXD CAR 56kΩ $\pm 5\%$ 1/4W	
" -R138	RD25S 2.2KΩJ	R:FXD CAR 2.2kΩ $\pm 5\%$ 1/4W	
" -R139	RD25S 4.7KΩJ	R:FXD CAR 4.7kΩ $\pm 5\%$ 1/4W	
" -R140	RD25S 10KΩJ	R:FXD CAR 10kΩ $\pm 5\%$ 1/4W	
" -R143			
" -R144	RD25S 150ΩJ	R:FXD CAR 150Ω $\pm 5\%$ 1/4W	
" -R145	RD25S 10KΩJ	R:FXD CAR 10kΩ $\pm 5\%$ 1/4W	
" -R146	RD25S 10KΩJ	R:FXD CAR 10kΩ $\pm 5\%$ 1/4W	
" -R147	RD25S 3.3KΩJ	R:FXD CAR 3.3kΩ $\pm 5\%$ 1/4W	
" -R148		Not assigned	
" -R149	RD25S 68KΩJ	R:FXD CAR 68kΩ $\pm 5\%$ 1/4W	
" -C161	0.01UF 50WV	C:FXD CER 0.01μF +80, -20% 50V	
" thru			
" -C163			
" -C164		Not assigned	
" -C165	111M3502-476M	C:FXD ELECT TANTAL 47μF $\pm 20\%$ 35V	
" -C166	111M5002-475M	C:FXD ELECT TANTAL 4.7μF $\pm 20\%$ 50V	
" -C167	0.047UF 50WV	C:FXD CER 0.047μF +80, -20% 50V	
" -C168	0.01UF 50WV	C:FXD CER 0.01μF +80, -20% 50V	
" thru			
" -C170			
" -C171	DM10C100K5	C:FXD DIPPED MICA 10pF $\pm 10\%$ 500V	
" -C172	0.01UF 500WV	C:FXD CER 0.01μF +80, -20% 500V	
" -C173	0.01UF 50WV	C:FXD CER 0.01μF +80, -20% 50V	
" thru			
" -C175			
" -C176	DM10C100K5	C:FXD DIPPED MICA 10pF $\pm 10\%$ 500V	
" -C177	FD76AF1H104Z	C:FXD CER 1μF +80, -20% 50V	
" -C178	0.01UF 500WV	C:FXD CER 0.01μF +80, -20% 500V	
" -C179	0.01UF 50WV	C:FXD CER 0.01μF +80, -20% 50V	
" thru			
PG082-C183			

Parts No.	Stock No.	Description	
PG082-C184	25T10	C:FXD ELECT 10 μ F 25V	
" -C185	0.01UF 50WV	C:FXD CER 0.01 μ F +80, -20% 50V	
" -C186	25T1	C:FXD ELECT 1 μ F 25V	
" -C187	25T10	C:FXD ELECT 10 μ F 25V	
" -C188	0.01UF 50WV	C:FXD CER 0.01 μ F +80, -20% 50V	
" -C189	0.01UF 50WV	C:FXD CER 0.01 μ F +80, -20% 50V	
" -C190	470PF 50WV	C:FXD CER 470pF $\pm$ 10% 50V	
" -C191	470PF 50WV	C:FXD CER 470pF $\pm$ 10% 50V	
" -C192	0.01UF 50WV	C:FXD CER 0.01 μ F +80, -20% 50V	
" -C193	25T10	C:FXD ELECT 10 μ F 25V	
" -C194	25T10	C:FXD ELECT 10 μ F 25V	
" -C195	0.01UF 50WV	C:FXD CER 0.01 μ F +80, -20% 50V	
" -C196	47PF 50WV	C:FXD CER 47pF $\pm$ 10% 50V	
" -L201 thru PG082-L203	CSL06090181K	L:FXD Coil 180 μ H	

TR 4110
POWER SUPPLY
PEO68-01

Parts No.	Stock No.	Description	
PEO68-IC1		Not assigned	
" -IC2	LM723CH	IC: Voltage Regulator	
" -IC3	LM723CH	IC: Voltage Regulator	
" -IC4	LM305AH	IC: Voltage Regulator	
" -IC5	LM301A	IC: Operational Amplifier	
" -Q11	2SD220	Transistor SI NPN	
" -Q12		Not assigned	
" -Q13	2SC1279	Transistor SI NPN	
" -Q14	2SC1279	Transistor SI NPN	
" -Q15	2SA1015	Transistor SI PNP	
" -Q16 thru		Not assigned	
" -Q18			
" -Q19 thru	2SC505	Transistor SI NPN	
" -Q21			
" -Q22 thru		Not assigned	
" -Q24			
" -Q25	2SC1279	Transistor SI NPN	
" -Q26	2SC510	Transistor SI NPN	
" -D31	WZ-110	Zener Diode	
" -D32	HZ18-2	Zener Diode	
" -D33	WZ-110	Zener Diode	
" -D34		Not assigned	
" -D35		Not assigned	
" -D36	1S2192	Diode SI	
" -D37	1S2192	Diode SI	
" -D38	RD82E	Diode SI	
" -D39	ZD-2	Diode SI	
" -D40	ZD-2	Diode SI	
" -R41		Not assigned	
" -R42		Not assigned	
" -R43		Not assigned	
" -R44	R1/4 1KΩJ	R: FXD CAR 1kΩ ±5% 1/4W	
" -R45	CRB1/4FX5.6KΩJ	R: FXD Metal FLM 5.6KΩ ±1% 1/4W	
PEO68-R46	RJ6S 500Ω	R: VAR 500Ω	

Parts No.	Stock No.	Description	
PEO68-R47	CRB1/4FX3.9KΩJ	R:FXD Metal FLM 3.9kΩ ±1% 1/4W	
" -R48	CRB1/4FX3.9KΩJ	R:FXD Metal FLM 3.9kΩ ±1% 1/4W	
" -R49	RJ6S 500Ω	R:VAR 500Ω	
" -R50	CRB1/4FX3.9KΩJ	R:FXD Metal FLM 3.9kΩ ±1% 1/4W	
" -R51	R1/4 9.1KΩJ	R:FXD CAR 9.1kΩ ±5% 1/4W	
" -R52	RJ62 2KΩ	R:VAR 2kΩ	
" -R53	R1/4 4.7KΩJ	R:FXD CAR 4.7kΩ ±5% 1/4W	
" -R54	R1/4 330ΩJ	R:FXD CAR 330Ω ±5% 1/4W	
" -R55 thru		Not assigned	
" -R63			
" -R64	R1/4 3.3KΩJ	R:FXD CAR 3.3kΩ ±5% 1/4W	
" -R65	R1/4 82KΩJ	R:FXD CAR 82kΩ ±5% 1/4W	
" -R66	R1/2 47KΩJ	R:FXD CAR 47kΩ ±5% 1/4W	
" -R67	SN14K2E33KΩF	R:FXD Metal FLM 33kΩ ±1% 1/4W	
" -R68	CRB1/4FX33KΩ	R:FXD Metal FLM 33kΩ ±1% 1/4W	
" -R69	CRB1/4FX100KΩ	R:FXD Metal FLM 100kΩ ±1% 1/4W	
" -R70 thru		Not assigned	
" -R80			
" -R81		Not assigned	
" -R82	WRS1-36	R:FXD WW 0.25Ω	
" -R83	WRS1-36	R:FXD WW 0.25Ω	
" -R84	WRSC1-42	R:FXD WW 0.10Ω	
" -R85		Not assigned	
" -R86	R1/4 2.2KΩJ	R:FXD CAR 2.2kΩ ±5% 1/4W	
" -R87	R1/4 2.2KΩJ	R:FXD CAR 2.2kΩ ±5% 1/4W	
" -R88	R1/4 15KΩJ	R:FXD CAR 15kΩ ±5% 1/4W	
" -R89	R1/4 15KΩJ	R:FXD CAR 15kΩ ±5% 1/4W	
" -R90		Not assigned	
" -C91	50TK33	C:FXD ELECT 33μF 50V	
" -C92		Not assigned	
" -C93		Not assigned	
" -C94	SC-60YZ102P	C:FXD CER 0.001μF +80, -20% 50V	
" -C95	TAXH16V3R3	C:FXD ELECT TANTAL 3.3μF ±20% 16V	
PEO68-C96	SC-60YZ102P	C:FXD CER 0.001μF +80, -20% 50V	

Parts No.	Stock No.	Description	
PE068-C97	TAXH16V3R3	C:FXD ELECT TANTAL 3.3 μ F $\pm$ 20% 16V	
" -C98	SC-60YZ102P	C:FXD CER 0.001 μ F +80, -20% 50V	
" -C99		Not assigned	
" -C100	YZO.01U(500V)	C:FXD CER 0.01 μ F +80, -20% 500V	
" -C101		Not assigned	
" -C102	YZO.01U(500V)	C:FXD CER 0.01 μ F +80, -20% 500V	
" -C103	YZO.01U(500V)	C:FXD CER 0.01 μ F +80, -20% 500V	
" -C104 thru			
" -C110		Not assigned	
" -C111		Not assigned	
" -C112	25TH10	3: FXD ELECT 10 μ F 25V	
" -C113	25TH10	C: FXD ELECT 10 μ F 25V	
" -C114	TAXH25V33K	C:FXD ELECT TANTAL 33 μ F $\pm$ 10% 25V	
" -C115	50TH10	C:FXD ELECT 10 μ F 50V	
" -C116	0.001UF 50WV	C:FXD CER 0.001 μ F +80, -20% 50V	
" -C117	350TH1	C:FXD ELECT 1 μ F 350V	
" -L121		Not assigned	
" -L122		Not assigned	
" -R123	R1/4 330 Ω J	R:FXD CAR 330 Ω $\pm$ 5% 1/4W	
" -R124	R1/4 22 Ω J	R:FXD CAR 22 Ω $\pm$ 5% 1/4W	
" -R125	EF1/4 1.5K Ω J	R:FXD Metal FLM 1.5k Ω $\pm$ 1% 1/4W	
" -R126	EF1/4 82K Ω F	R:FXD Metal FLM 82k Ω $\pm$ 1% 1/4W	
" -R127	X-6S 2K Ω	R:VAR 2k Ω	
" -R128	EF1/4 16K Ω J	R:FXD Metal FLM 16k Ω $\pm$ 1% 1/4W	
" -R129	R1/4 18K Ω J	R:FXD CAR 18k Ω $\pm$ 5% 1/4W	
" -R130	R1/4 10K Ω J	R:FXD CAR 10k Ω $\pm$ 5% 1/4W	
" -R131	R1/4 75K Ω J	R:FXD CAR 75k Ω $\pm$ 5% 1/4W	
" -R132	R1/4 39K Ω J	R:FXD CAR 39k Ω $\pm$ 5% 1/4W	
" -R133	R25 47K Ω J	R:FXD CAR 47k Ω $\pm$ 5% 1/4W	
" -R134	R1/2 3.3K Ω J	R:FXD CAR 3.3k Ω $\pm$ 5% 1/2W	
" -R135	CRB1/4FX1.2K Ω	R:FXD Metal FLM 1.2k Ω 1/4W	
" -R136	CRB1/4FX1.2K Ω	R:FXD Metal FLM 1.2k Ω 1/4W	
" -R137	R25 22K Ω J	R:FXD CAR 22k Ω $\pm$ 5% 1/4W	
PE068-HRS140	NF204C	Heat Sink	

TR 4110M
POWER SUPPLY
PEO68-02

Parts No.	Stock No.	Description	
PEO68-IC1			
thru	LM-723CH	IC:Voltage Regulator	
" -IC3			
" -IC4	LM305A	IC:Voltage Regulator	
" -IC5	LM301A	IC:Operational Amplifier	
" -Q11	2SD220	Transistor SI NPN	
" -Q12			
thru	2SC1279	Transistor SI NPN	
" -Q14			
" -Q15	2SA1015	Transistor SI PNP	
" -Q16			
thru		Not assigned	
" -Q18			
" -Q19			
thru	2SC505	Transistor SI NPN	
" -Q21			
" -Q22	2SC510	Transistor SI NPN	
" -Q23	2SA510	Transistor SI PNP	
" -Q24	2SC510	Transistor SI NPN	
" -Q25	2SC1279	Transistor SI NPN	
" -Q26	2SC510	Transistor SI NPN	
" -D31	WZ-110	Zener Diode	
" -D32	RD19A	Zener Diode	
" -D33	WZ-110	Zener Diode	
" -D34		Not assigned	
" -D35		Not assigned	
" -D36	1S2192	Diode SI	
" -D37	1S2192	Diode SI	
" -D38	1N983B	Diode SI	
" -D39	ZD-2	Diode SI	
" -D40	ZD-2	Diode SI	
" -R41	R1/4 12KΩJ	R:FXD CAR 12kΩ $\pm 5\%$ 1/4W	
" -R42	RJ6S 2KΩ	R:VAR 2kΩ	
" -R43	R1/4 6.8KΩJ	R:FXD CAR 6.8kΩ $\pm 5\%$ 1/4W	
" -R44	R1/4 1KΩJ	R:FXD CAR 1kΩ $\pm 5\%$ 1/4W	
" -R45	CRB1/4FX5.6KΩJ	R:FXD Metal FLM 5.6kΩ $\pm 1\%$ 1/4W	
PEO68-R46	RJ6S 500Ω	R:VAR 500Ω	

Parts No.	Stock No.	Description	
PEO68-R47	CRB1/4FX3.9KΩJ	R:FXD Metal FLM 3.9kΩ ±1% 1/4W	
" -R48	CRB1/4FX3.9KΩJ	R:FXD Metal FLM 3.9kΩ ±1% 1/4W	
" -R49	RJ6S 500Ω	R:VAR 500Ω	
" -R50	CRB1/4FX3.9KΩJ	R:FXD Metal FLM 3.9kΩ ±1% 1/4W	
" -R51	R1/4 9.1KΩJ	R:FXD CAR 9.1kΩ ±5% 1/4W	
" -R52	RJ62 2KΩ	R:VAR 2kΩ	
" -R53	R1/4 4.7KΩJ	R:FXD CAR 4.7kΩ ±5% 1/4W	
" -R54	R1/4 330ΩJ	R:FXD CAR 330Ω ±5% 1/4W	
" -R55 thru		Not assigned	
" -R63			
" -R64	R1/4 3.3KΩJ	R:FXD CAR 3.3kΩ ±5% 1/4W	
" -R65	R1/4 82KΩJ	R:FXD CAR 82kΩ ±5% 1/4W	
" -R66	R1/2 47KΩJ	R:FXD CAR 47kΩ ±5% 1/4W	
" -R67	SN14K2E47KΩF	R:FXD Metal FLM 47kΩ ±1% 1/4W	
" -R68	CRB1/4FX33kΩ	R:FXD Metal FLM 33kΩ ±1% 1/4W	
" -R69	CRB1/4FX100KΩ	R:FXD Metal FLM 100kΩ ±1% 1/4W	
" -R70	RD25S10ΩJ	R:FXD CAR 10Ω ±5% 1/4W	
" -R71	RD25S33KΩJ	R:FXD CAR 33kΩ ±5% 1/4W	
" -R72	RD25S100KΩJ	R:FXD CAR 100kΩ ±5% 1/4W	
" -R73	RD25S100ΩJ	R:FXD CAR 100Ω ±5% 1/4W	
" -R74	RD25S1.2KΩJ	R:FXD CAR 1.2kΩ ±5% 1/4W	
" -R75	RD25S470KΩJ	R:FXD CAR 470kΩ ±5% 1/4W	
" -R76	HT1/2 4.7MΩJ	R:FXD CAR 4.7MΩ ±5% 1/2W	
" -R77	HT1/2 1.2MΩJ	R:FXD CAR 1.2MΩ ±5% 1/2W	
" -R78	RJ6S 50KΩ	R:VAR 50kΩ	
" -R79	RD25S100KΩJ	R:FXD CAR 100kΩ ±5% 1/4W	
" -R80	RD25S10KΩJ	R:FXD CAR 10kΩ ±5% 1/4W	
" -R81	WRS1-37	R:FXD WW 0.7Ω	
" -R82	WRS1-36	R:FXD WW 0.25Ω	
" -R83	WRS1-36	R:FXD WW 0.25Ω	
" -R84	WRSC1-42	R:FXD WW 0.10Ω	
" -R85	R1/4 4.7KΩJ	R:FXD CAR 4.7kΩ ±5% 1/4W	
" -R86	R1/4 2.2KΩJ	R:FXD CAR 2.2kΩ ±5% 1/4W	
PEO68-R87	R1/4 2.2KΩJ	R:FXD CAR 2.2kΩ ±5% 1/4W	

Parts No.	Stock No.	Description	
PE068-R88	R1/4 15KΩJ	R:FXD CAR 15kΩ $\pm 5\%$ 1/4W	
" -R89	R1/4 15KΩJ	R:FXD CAR 15kΩ $\pm 5\%$ 1/4W	
" -R90	R1/4 18KΩJ	R:FXD CAR 18kΩ $\pm 5\%$ 1/4W	
" -C91	50TK 33	C:FXD ELECT 33μF 50V	
" -C92	SC-60YZ102P	C:FXD CER 0.001μF +80, -20% 50V	
" -C93	TAXH16V3R3	C:FXD ELECT TANTAL 3.3μF $\pm 20\%$ 16V	
" -C94	SC-60YZ102P	C:FXD CER 0.001μF +80, -20% 50V	
" -C95	TAXH16V3R3	C:FXD ELECT TANTAL 3.3μF $\pm 20\%$ 16V	
" -C96	SC-60YZ102P	C:FXD CER 0.001μF +80, -20% 50V	
" -C97	TAXH16V3R3	C:FXD ELECT TANTAL 3.3μF $\pm 20\%$ 16V	
" -C98	SC-60YZ102P	C:FXD CER 0.001μF +80, -20% 50V	
" -C99		Not assigned	
" -C100	YZO.01U(500V)	C:FXD CER 0.01μF +80, -20% 500V	
" -C101		Not assigned	
" -C102	YZO.01U(500V)	C:FXD CER 0.01μF +80, -20% 500V	
" -C103	YZO.01U(500V)	C:FXD CER 0.01μF +80, -20% 500V	
" -C104	501N5002-473K	C:FXD Mylar 0.047μF $\pm 10\%$ 50V	
" -C105	350TH4.7	C:FXD ELECT 4.7μF 350V	
" -C106	0.01UF 500WV	C:FXD CER 0.01μF +80, -20% 500V	
" -C107	25TH10	C:FXD ELECT 10μF 25V	
" -C108	25TH10	C:FXD ELECT 10μF 25V	
" -C109	111M3502-105K	C:FXD ELECT TANTAL 1μF $\pm 10\%$ 35V	
" -C110		Not assigned	
" -C111 thru	25TH10	C:FXD ELECT 10μF 25V	
" -C113			
" -C114	TAXH25V33K	C:FXD ELECT TANTAL 33μF $\pm 10\%$ 25V	
" -C115	50TH10	C:FXD ELECT 10μF 50V	
" -C116	FC50SL330K	C:FXD CER 33pF $\pm 10\%$ 50V	
" -C117	350TH1	C:FXD ELECT 1μF 350V	
" -L121	LT-500	L:FXD Coil 500μH	
" -L122	LT-500	L:FXD Coil 500μH	
" -R123	R1/4 330ΩJ	R:FXD CAR 330Ω $\pm 5\%$ 1/4W	
" -R124	R1/4 22ΩJ	R:FXD CAR 22Ω $\pm 5\%$ 1/4W	
PE068-R125	EF1/4 1.5KΩF	R:FXD Metal FLM 1.5kΩ $\pm 1\%$ 1/4W	

Parts No.	Stock No.	Description	
PEO68-R126	EF1/4 82KΩF	R:FXD Metal FLM 82kΩ ±1% 1/4W	
" -R127	X6S 2KΩ	R:VAR 2kΩ	
" -R128	EF1/4 16KΩF	R:FXD Metal FLM 16kΩ ±1% 1/4W	
" -R129	R1/4 22KΩJ	R:FXD CAR 22kΩ ±5% 1/4W	
" -R130	R1/4 10KΩJ	R:FXD CAR 10kΩ ±5% 1/4W	
" -R131	R1/4 75KΩJ	R:FXD CAR 75kΩ ±5% 1/4W	
" -R132	R1/4 39KΩJ	R:FXD CAR 39kΩ ±5% 1/4W	
" -R133	R25 47KΩJ	R:FXD CAR 47kΩ ±5% 1/4W	
" -R134	R1/2 3.3KΩJ	R:FXD CAR 3.3kΩ ±5% 1/2W	
" -R135	CRB1/4FX1.2KΩ	R:FXD Metal FLM 1.2kΩ ±1% 1/4W	
" -R136	CRB1/4FX1.2KΩ	R:FXD Metal FLM 1.2kΩ ±1% 1/4W	
" -R137	R25 22KΩJ	R:FXD CAR 22kΩ ±5% 1/4W	
PEO68-HRS140	NF204C	Heat Sink	

TR 4110/4110M
WARNING SECTION
PX050

Parts No.	Stock No.	Description	
PX050 - IC1	LM301A	IC: Operational Amplifier	
" IC2 thru	SN74LS125N	IC: Quadruple bus Buffer gate with three-State Output Low Power	
" IC8			
" IC9 thru	SN74LS156N	IC: Dual 2-Line-to-4-Line Decoder/Demultiplexer with Open-Collector Output Low Power	
" IC11			
" IC12	SN74LS125N	IC: Quadruple bus Buffer gate with three-State Output Low Power	
" IC13	SN74LS125N	IC: Quadruple bus Buffer gate with three-State Output Low Power	
" IC14	SN74155N	IC: Decoder/Demultiplexer	
" IC15	SN74155N	IC: Decoder/Demultiplexer	
" IC16	SN74LS04N	IC: Hex Inverter Low Power	
" IC17	SN74155N	IC: Decoder/Demultiplexers	
" IC18	SN74LS20N	IC: Dual 4-Input NAND Gate Low Power	
" IC19 thru	SN74LS156N	IC: Dual 2-Line-to-4-Line Decoder/Demultiplexer with Open-Collector Output Low Power	
" IC21			
" IC22	SN74LS01N	IC: Quadruple 2-Input NAND Gate with Open-Collector Output Low Power	
" IC23	SN74LS156N	IC: Dual 2-Line-to-4-Line Decoder/Demultiplexer with Open-Collector Output Low Power	
" IC24	SN74LS04N	IC: Hex Inverter Low Power	
" IC25	SN74LS86N	IC: Quadruple 2-Input Exclusive -OR-Gate Low Power	
" IC26	SN74LS156N	IC: Dual 2-Line-to-4-Line Decoder/Demultiplexer with Open-Collector Output Low Power	
" IC27	SN74LS04N	IC: Hex Inverter Low Power	
PX050 - IC28	SN74LS139N	IC: Dual 2-to-4-Line Decoder Multiplexer Low Power	

Parts No.	Stock No.	Description	
PX050 - IC29	SN74LS156N	IC: Dual 2-Line-to-4-Line Decoder/Demultiplexer with Open-Collector Output Low Power	
" - IC30	SN74LS156N	IC: Dual 2-Line-to-4-Line Decoder/Demultiplexer with Open-Collector Output Low Power	
" - IC31	SN74LS01N	IC: Quadruple 2-Input NAND Gate with Open-Collector Output Low Power	
" - IC32 thru	SN74LS156N	IC: Dual 2-Line-to-4-Line Decoder/Demultiplexer with Open-Collector Output Low Power	
" - IC36			
" - IC37	SN74LS83N	IC: 4-Bit Binary Full Adder Low Power	
" - IC38	SN74LS00N	IC: Quadruple 2-Input NAND Gate Low Power	
" - IC39	SN74LS04N	IC: Hex Inverter Low Power	
" - IC40	SN74LS04N	IC: Hex Inverter Low Power	
" - IC41	SN7406N	IC: Hex Inverter Buffer/Driver	
" - Q51	2SC1815GR	Transistor SI NPN	
" - D53 thru	1S953	Diode SI	
" - D62			
"			
" - R71	CRB 1/4FX 1.5K Ω	R: FXD Metal FLM 1.5K Ω $\pm$ 1% 1/4W	
" - R72	CRB 1/4FX 2.0K Ω	R: FXD Metal FLM 2.0K Ω $\pm$ 1% 1/4W	
" - R73	CRB 1/4FX 2.49K Ω	R: FXD Metal FLM 2.49K Ω $\pm$ 1% 1/4W	
" - R74	CRB 1/4FX 3.01K Ω	R: FXD Metal FLM 3.01K Ω $\pm$ 1% 1/4W	
" - R75	CRB 1/4FX 3.57K Ω	R: FXD Metal FLM 3.57K Ω $\pm$ 1% 1/4W	
" - R76	CRB 1/4FX 4.30K Ω	R: FXD Metal FLM 4.30K Ω $\pm$ 1% 1/4W	
" - R77	CRB 1/4FX 4.99K Ω	R: FXD Metal FLM 4.99K Ω $\pm$ 1% 1/4W	
" - R78	CRB 1/4FX 5.76K Ω	R: FXD Metal FLM 5.76K Ω $\pm$ 1% 1/4W	
" - R79	CRB 1/4FX 6.65K Ω	R: FXD Metal FLM 6.65K Ω $\pm$ 1% 1/4W	
" - R80	CRB 1/4FX 7.68K Ω	R: FXD Metal FLM 7.68K Ω $\pm$ 1% 1/4W	
PX050 - R81	CRB 1/4FX 8.66K Ω	R: FXD Metal FLM 8.66K Ω $\pm$ 1% 1/4W	

Parts No.	Stock No.	Description	
PX050 - R82	CRB 1/4FX 10.0K Ω	R: FXD Metal FLM 10.0K Ω $\pm$ 1% 1/4W	
" - R83	CRB 1/4FX 11.5K Ω	R: FXD Metal FLM 11.5K Ω $\pm$ 1% 1/4W	
" - R84	CRB 1/4FX 13.0K Ω	R: FXD Metal FLM 13.0K Ω $\pm$ 1% 1/4W	
" - R85	CRB 1/4FX 15.0K Ω	R: FXD Metal FLM 15.0K Ω $\pm$ 1% 1/4W	
" - R86	CRB 1/4FX 17.4K Ω	R: FXD Metal FLM 17.4K Ω $\pm$ 1% 1/4W	
" - R87	CRB 1/4FX 20.0K Ω	R: FXD Metal FLM 20.0K Ω $\pm$ 1% 1/4W	
" - R88	CRB 1/4FX 23.2K Ω	R: FXD Metal FLM 23.2K Ω $\pm$ 1% 1/4W	
" - R89	CRB 1/4FX 27.4K Ω	R: FXD Metal FLM 27.4K Ω $\pm$ 1% 1/4W	
" - R90	CRB 1/4FX 32.4K Ω	R: FXD Metal FLM 32.4K Ω $\pm$ 1% 1/4W	
" - R91	CRB 1/4FX 40.2K Ω	R: FXD Metal FLM 40.2K Ω $\pm$ 1% 1/4W	
" - R92	CRB 1/4FX 49.9K Ω	R: FXD Metal FLM 49.9K Ω $\pm$ 1% 1/4W	
" - R93	CRB 1/4FX 62.0K Ω	R: FXD Metal FLM 62.0K Ω $\pm$ 1% 1/4W	
" - R94	R1/4 4.7K Ω J	R: FXD CAR 4.7K Ω $\pm$ 5% 1/4W	
" - R95	CRB 1/4FX 680 Ω	R: FXD Metal FLM 680 Ω $\pm$ 1% 1/4W	
" - R96	CRB 1/4FX 1.1K Ω	R: FXD Metal FLM 1.1K Ω $\pm$ 1% 1/4W	
" - R97	CRB 1/4FX 1.5K Ω	R: FXD Metal FLM 1.5K Ω $\pm$ 1% 1/4W	
" - R98	CRB 1/4FX 2.0K Ω	R: FXD Metal FLM 2.0K Ω $\pm$ 1% 1/4W	
" - R99	CRB 1/4FX 7.68K Ω	R: FXD Metal FLM 7.68K Ω $\pm$ 1% 1/4W	
" - R100	CRB 1/4FX 2.49K Ω	R: FXD Metal FLM 2.49K Ω $\pm$ 1% 1/4W	
" - R101	CRB 1/4FX 8.66K Ω	R: FXD Metal FLM 8.66K Ω $\pm$ 1% 1/4W	
" - R102	CRB 1/4FX 10.0K Ω	R: FXD Metal FLM 10.0K Ω $\pm$ 1% 1/4W	
" - R103	CRB 1/4FX 11.5K Ω	R: FXD Metal FLM 11.5K Ω $\pm$ 1% 1/4W	
" - R104	CRB 1/4FX 13.0K Ω	R: FXD Metal FLM 13.0K Ω $\pm$ 1% 1/4W	
" - R105	CRB 1/4FX 15.0K Ω	R: FXD Metal FLM 15.0K Ω $\pm$ 1% 1/4W	
" - R106	CRB 1/4FX 17.4K Ω	R: FXD Metal FLM 17.4K Ω $\pm$ 1% 1/4W	
" - R107	CRB 1/4FX 20.0K Ω	R: FXD Metal FLM 20.0K Ω $\pm$ 1% 1/4W	
" - R108	CRB 1/4FX 23.2K Ω	R: FXD Metal FLM 23.2K Ω $\pm$ 1% 1/4W	
" - R109	CRB 1/4FX 27.4K Ω	R: FXD Metal FLM 27.4K Ω $\pm$ 1% 1/4W	
" - R110	CRB 1/4FX 32.4K Ω	R: FXD Metal FLM 32.4K Ω $\pm$ 1% 1/4W	
" - R111 thru	CRB 1/4FX 10.0K Ω	R: FXD Metal FLM 10.0K Ω $\pm$ 1% 1/4W	
" - R113			
" - R114	RH1HVB 1M Ω F	R: FXD Metal FLM 1M Ω $\pm$ 1% 1W	
" - R115	RH1HVB 1M Ω F	R: FXD Metal FLM 1M Ω $\pm$ 1% 1W	
PX050 - R116	CRB 1/2FX 500K Ω	R: FXD Metal FLM 500K Ω $\pm$ 1% 1/2W	

Parts No.	Stock No.	Description	
PX050 - R117	R1/4 150ΩJ	R: FXD CAR 150Ω ±5%	1/4W
" - R118	CRB 1/4FX 10.0KΩ	R: FXD Metal FLM 10.0KΩ ±1%	1/4W
" - R119	3321W-1-102	R: VAR CERMET 1KΩ	
" - R120	CRB 1/4FX 10.0KΩ	R: FXD Metal FLM 10.0KΩ ±1%	1/4W
" - R121	CRB 1/4FX 23.2KΩ	R: FXD Metal FLM 23.2KΩ ±1%	1/4W
" - R122	CRB 1/4FX 16.0KΩ	R: FXD Metal FLM 16.0KΩ ±1%	1/4W
" - R123	CRB 1/4FX 11.5KΩ	R: FXD Metal FLM 11.5KΩ ±1%	1/4W
" - R124	SN14K2E10KΩF	R: FXD Metal FLM 10KΩ ±1%	1/4W
" - R125	CRB 1/4FX 18.7KΩ	R: FXD Metal FLM 18.7KΩ ±1%	1/4W
" - R126	CRB 1/4FX 14.0KΩ	R: FXD Metal FLM 14.0KΩ ±1%	1/4W
" - R127	CRB 1/4FX 10.7KΩ	R: FXD Metal FLM 10.7KΩ ±1%	1/4W
" - R128	CRB 1/4FX 8.87KΩ	R: FXD Metal FLM 8.87KΩ ±1%	1/4W
" - R129	CRB 1/4FX 15.0KΩ	R: FXD Metal FLM 15.0KΩ ±1%	1/4W
" - R130	CRB 1/4FX 12.1KΩ	R: FXD Metal FLM 12.1KΩ ±1%	1/4W
" - R131	CRB 1/4FX 9.31KΩ	R: FXD Metal FLM 9.31KΩ ±1%	1/4W
" - R132	CRB 1/4FX 7.68KΩ	R: FXD Metal FLM 7.68KΩ ±1%	1/4W
" - R133	CRB 1/4FX 7.15KΩ	R: FXD Metal FLM 7.15KΩ ±1%	1/4W
" - R134	CRB 1/4FX 10.0KΩ	R: FXD Metal FLM 10.0KΩ ±1%	1/4W
" - R135	CRB 1/4FX 6.2KΩ	R: FXD Metal FLM 6.2KΩ ±1%	1/4W
" - R136	CRB 1/4FX 8.20KΩ	R: FXD Metal FLM 8.20KΩ ±1%	1/4W
" - R137	CRB 1/4FX 6.65KΩ	R: FXD Metal FLM 6.65KΩ ±1%	1/4W
" - R138	CRB 1/4FX 5.76KΩ	R: FXD Metal FLM 5.76KΩ ±1%	1/4W
" - R139	CRB 1/4FX 4.99KΩ	R: FXD Metal FLM 4.99KΩ ±1%	1/4W
" - R140	CRB 1/4FX 5.36KΩ	R: FXD Metal FLM 5.36KΩ ±1%	1/4W
" - R141	CRB 1/4FX 4.32KΩ	R: FXD Metal FLM 4.32KΩ ±1%	1/4W
" - R142	CRB 1/4FX 4.30KΩ	R: FXD Metal FLM 4.30KΩ ±1%	1/4W
" - R143	CRB 1/4FX 3.57KΩ	R: FXD Metal FLM 3.57KΩ ±1%	1/4W
" - R144	CRB 1/4FX 3.3KΩ	R: FXD Metal FLM 3.3KΩ ±1%	1/4W
" - R145	CRB 1/4FX 2.7KΩ	R: FXD Metal FLM 2.7KΩ ±1%	1/4W
" - R146		Not assigned	
" - R147 thru	TMR6-472	R: FXD COM 4.7KΩ	
" - R153			
" - R154 thru	R1/4 4.7KΩJ	R: FXD CAR 4.7KΩ ±5%	1/4W
PX050 - R157			

Parts No.	Stock No.	Description	
PX050 - C161 thru	25T3R3	C: FXD ELECT 3.3 μ F 25V	
" - C164			
" - C165 thru	0.01UF 50V	C: FXD CER 0.01 μ F +80, -20% 50V	
" - C174			
" - C175		Not assigned	
" - C176	10T100	C: FXD ELECT 100 μ F 10V	
" - C177	33PF 50V	C: FXD CER 33pF $\pm$ 10% 50V	
" - L181	EL-0810SKI-181K	C: FXD Coil 180 μ H	
" - L182	EL-0810SKI-181K	C: FXD Coil 180 μ H	
" - IC42	SN74LS01N	IC: Quadruple 2-Input NAND Gate with Open-Collector Output Low Power	
" - R158	SN14K2E6.65K Ω F	R: FXD Metal FLM 6.65k Ω $\pm$ 1% 1/4W	
PX050 - R159	RD25S 10K Ω J	R: FXD CAR 10k Ω $\pm$ 5% 1/4W	

TR 4110/M SCAN GENERATOR PPO09

Parts No.	Stock No.	Description	
PPO09 - IC1	LM311	IC: Voltage Comparator	
" - IC2	LM311	IC: Voltage Comparator	
" - IC3	SN74LS00N	IC: Quadruple 2-Input NAND Gate Low Power	
" - IC4	SN74LS00N	IC: Quadruple 2-Input NAND Gate Low Power	
" - IC5	SN74LS08N	IC: Quadruple 2-Input AND Gate	
" - IC6	SN74LS30N	IC: 8-Input NAND Gate Low Power	
" - IC7		Not assigned	
" - IC8	SN7400N	IC: Quadruple 2-Input NAND Gate	
" - IC9	SN7400N	IC: Quadruple 2-Input NAND Gate	
" - IC10	SN74LS00N	IC: Quadruple 2-Input NAND Gate Low Power	
" - IC11	SN7400N	IC: Quadruple 2-Input NAND Gate	
" - IC12	SN7403N	IC: Quadruple 2-Input NAND Gate with Open-Collector Output	
" - IC13	SN7404N	IC: Hex Inverter	
" - IC14	SN7404N	IC: Hex Inverter	
" - IC15	LM710CH	IC: Voltage Comparator	
" - IC16	LM710CH	IC: Voltage Comparator	
" - IC17	SN74LS08N	IC: Quadruple 2-Input AND Gate	
" - IC18	SN74LS08N	IC: Quadruple 2-Input AND Gate	
" - IC19	SN7400N	IC: Quadruple 2-Input NAND Gate	
" - Q20 thru	2SA1015	Transistor SI PNP	
" - Q28			
" - Q29	U-406	FET N-Channel Junction (Pair)	
" - Q30		Not assigned	
" - Q31	2SA1015	Transistor SI PNP	
" - Q32	2SA1015	Transistor SI PNP	
" - Q33		Not assigned	
" - Q34	2SC1815GR	Transistor SI NPN	
" - Q35	2SC1279	Transistor SI NPN	
" - Q36	2SC1279	Transistor SI NPN	
" - Q37	2SC1815GR	Transistor SI NPN	
PPO09 - Q38	2SA1015	Transistor SI PNP	

Parts No.	Stock No.	Description	
PP009 - Q39	ITS30088B	FET N-Channel Junction	
" - Q40	ITS30088B	FET N-Channel Junction	
" - Q41	2N4393	FET N-Channel Junction	
" - Q42	2SC1815GR	Transistor SI NPN	
" - Q43	2SC1815GR	Transistor SI NPN	
" - Q44	2SA1015	Transistor SI PNP	
" - Q45	2SA1015	Transistor SI PNP	
" - Q46 thru		Not assigned	
" - Q49			
" - Q50 thru	2SC641	Transistor SI NPN	
" - Q53			
" - Q55	2SC641	Transistor SI NPN	
" - D59	1S953	Diode SI	
" - D60 thru	LD-1	Diode SI	
" - D68			
" - D69		Not assigned	
" - D70 thru	1S953	Diode SI	
" - D72			
" - D75	WZ-081	Diode Zener	
" - D76 and	1S953	Diode SI	
" - D77			
" - D73		Not assigned	
" - D74		Not assigned	
" - D78		Not assigned	
" - D79		Not assigned	
" - D80 thru	1S953	Diode SI	
" - D82			
" - Q54	2SC1815GR	Transistor SI NPN	
" - R85	HT1/2 10MQJ	R: FXD CAR 10MQ ±5% 1/2W	
" - R86	RH1HVD5.1MQ	R: FXD Metal FLM 5.1MQ ±1%	
" - R87	RH1HVD2MQF	R: FXD Metal FLM 2.0MQ ±1%	
PP009 - R88	RH1HVD1MQF	R: FXD Metal FLM 1.0MQ ±1%	

Parts No.	Stock No.	Description	
PP009 - R89	EF1/2 499kQFT3	R: FXD Metal FLM 499k Ω $\pm$ 1% 1/2W	
" - R90	EF1/4 180kQFT3	R: FXD Metal FLM 180k Ω $\pm$ 1% 1/4W	
" - R91	EF1/4 82kQFT3	R: FXD Metal FLM 82k Ω $\pm$ 1% 1/4W	
" - R92	EF1/4 47kQFT3	R: FXD Metal FLM 47k Ω $\pm$ 1% 1/4W	
" - R93	EF1/4 18kQFT3	R: FXD Metal FLM 18k Ω $\pm$ 1% 1/4W	
" - R94		Not assigned	
" - R95			
thru	R1/4 10kQJ	R: FXD CAR 10k Ω $\pm$ 5% 1/4W	
" - R103			
" - R104		Not assigned	
" - R105			
thru	R1/4 10kQJ	R: FXD CAR 10k Ω $\pm$ 5% 1/4W	
" - R109			
" - R110	R1/4 22kQJ	R: FXD CAR 22k Ω $\pm$ 5% 1/4W	
" - R111	R1/4 18kQJ	R: FXD CAR 18k Ω $\pm$ 5% 1/4W	
" - R112	R1/4 4.7kQJ	R: FXD CAR 4.7k Ω $\pm$ 5% 1/4W	
" - R113	R1/4 2.2kQJ	R: FXD CAR 2.2k Ω $\pm$ 5% 1/4W	
" - R114	R1/4 3.3kQJ	R: FXD CAR 3.3k Ω $\pm$ 5% 1/4W	
" - R115			
thru		Not assigned	
" - R119			
" - R120	R1/4 10kQJ	R: FXD CAR 10k Ω $\pm$ 5% 1/4W	
" - R121	R1/4 4.7kQJ	R: FXD CAR 4.7k Ω $\pm$ 5% 1/4W	
" - R122	R1/4 680 Ω	R: FXD CAR 680 Ω $\pm$ 5% 1/4W	
" - R123	R1/4 2.7kQJ	R: FXD CAR 2.7k Ω $\pm$ 5% 1/4W	
" - R124	RJ6S 2k Ω	R: VAR WW 2K Ω	
" - R125	R1/4 470QJ	R: FXD CAR 470 Ω $\pm$ 5% 1/4W	
" - R126			
thru		Not assigned	
" - R132			
" - R133	R1/4 10kQJ	R: FXD CAR 10k Ω $\pm$ 5% 1/4W	
" - R134	R1/4 22kQJ	R: FXD CAR 22k Ω $\pm$ 5% 1/4W	
" - R135	R1/4 22kQJ	R: FXC CAR 22k Ω $\pm$ 5% 1/4W	
" - R136	R1/4 47kQJ	R: FXD CAR 47k Ω $\pm$ 5% 1/4W	
" - R137		Not assigned	
PP009 - R138	R1/4 5.6kQJ	R: FXD CAR 5.6k Ω $\pm$ 5% 1/4W	

Parts No.	Stock No.	Description	
PP009 - R139	R1/4 10kΩJ	R: FXD CAR 10kΩ ±5% 1/4W	
" - R140	R1/4 2.2kΩJ	R: FXD CAR 2.2kΩ ±5% 1/4W	
" - R141	R1/4 1kΩJ	R: FXD CAR 1kΩ ±5% 1/4W	
" - R142	R1/4 15kΩJ	R: FXD CAR 15kΩ ±5% 1/4W	
" - R143	R1/4 1kΩJ	R: FXD CAR 1kΩ ±5% 1/4W	
" - R144	R1/4 4.7kΩJ	R: FXD CAR 4.7kΩ ±5% 1/4W	
" - R145		Not assigned	
" - R146	R1/4 6.8kΩJ	R: FXD CAR 6.8kΩ ±5% 1/4W	
" - R147	R1/4 10kΩJ	R: FXD CAR 10kΩ ±5% 1/4W	
" - R148	R1/4 10kΩK	R: FXD CAR 10kΩ ±5% 1/4W	
" - R149		Not assigned	
" - R150		Not assigned	
" - R151	R1/4 1kΩJ	R: FXD CAR 1kΩ ±5% 1/4W	
" - R152	R1/4 4.7kΩJ	R: FXD CAR 4.7kΩ ±5% 1/4W	
" - R153	R1/4 4.7kΩJ	R: FXD CAR 4.7kΩ ±5% 1/4W	
" - R154	R1/4 330ΩJ	R: FXD CAR 330Ω ±5% 1/4W	
" - R155	R1/4 33kΩJ	R: FXD CAR 33kΩ ±5% 1/4W	
" - R156	R1/4 10kΩJ	R: FXD CAR 10kΩ ±5% 1/4W	
" - R157	R1/4 10kΩJ	R: FXD CAR 10kΩ ±5% 1/4W	
" - R158	R1/4 1kΩJ	R: FXD CAR 1kΩ ±5% 1/4W	
" - R159			
thru	R1/4 47kΩJ	R: FXD CAR 47kΩ ±5% 1/4W	
" - R161			
" - R162	R1/4 10kΩJ	R: FXD CAR 10kΩ ±5% 1/4W	
" - R163	R1/4 33kΩJ	R: FXD CAR 33kΩ ±5% 1/4W	
" - R164	R1/4 10kΩJ	R: FXD CAR 10kΩJ ±5% 1/4W	
" - R165	R1/4 33kΩJ	R: FXD CAR 33kΩ ±5% 1/4W	
" - R166	R1/4 10kΩJ	R: FXD CAR 10kΩ ±5% 1/4W	
" - R167	R1/4 10kΩJ	R: FXD CAR 10kΩ ±5% 1/4W	
" - R168	R1/4 270kΩJ	R: FXD CAR 270kΩ ±5% 1/4W	
" - R169		Not assigned	
" - R170		Not assigned	
" - R171	R1/4 3.3kΩJ	R: FXD CAR 3.3kΩ ±5% 1/4W	
PP009 - R172	R1/4 3.6kΩJ	R: FXD CAR 3.6kΩ ±5% 1/4W	

Parts No.	Stock No.	Description	
PP009 - R173	R1/4 6.8kΩJ	R: FXD CAR 6.8kΩ ±5% 1/4W	
" - R174	R1/4 22kΩJ	R: FXD CAR 22kΩ ±5% 1/4W	
" - R175			
thru		Not assigned	
" - R178			
" - R179	R1/4 330kΩJ	R: FXD CAR 330kΩ ±5% 1/4W	
" - R180	R1/4 33kΩJ	R: FXD CAR 33kΩ ±5% 1/4W	
" - R181	R1/4 15kΩJ	R: FXD CAR 15kΩ ±5% 1/4W	
" - R182	R1/4 4.7kΩJ	R: FXD CAR 4.7kΩ ±5% 1/4W	
" - R183	R1/4 330kΩJ	R: FXD CAR 330kΩ ±5% 1/4W	
" - R184	R1/4 1kΩJ	R: FXD CAR 1kΩ ±5% 1/4W	
" - R185	R1/4 10kΩJ	R: FXD CAR 10kΩ ±5% 1/4W	
" - R186	R1/4 4.7kΩJ	R: FXD CAR 4.7kΩ ±5% 1/4W	
" - R187	R1/4 10kΩJ	R: FXD CAR 10kΩ ±5% 1/4W	
" - R188		Not assigned	
" - R189	R1/4 560ΩJ	R: FXD CAR 560Ω ±5% 1/4W	
" - R190	R1/4 470ΩJ	R: FXD CAR 470Ω ±5% 1/4W	
" - R191	TMR6-332	R: FXD COM 3.3kΩ	
" - R192	R1/4 470ΩJ	R: FXD CAR 470Ω ±5% 1/4W	
" - R193	R1/4 10kΩJ	R: FXD CAR 10kΩ ±5% 1/4W	
" - R194	R1/4 3.3kΩJ	R: FXD CAR 3.3kΩ ±5% 1/4W	
" - R195	R1/4 1.5kΩJ	R: FXD CAR 1.5kΩ ±5% 1/4W	
" - R196	R1/4 1.5kΩJ	R: FXD CAR 1.5kΩ ±5% 1/4W	
" - R197		Not assigned	
" - R198	R1/4 100ΩJ	R: FXD CAR 100Ω ±5% 1/4W	
" - R199	TMR6-332	R: FXD COM 3.3kΩ	
" - R200			
thru		Not assigned	
" R202			
" - R203	R1/4 4.7kΩJ	F: FXD CAR 4.7kΩ ±5% 1/4W	
" - R204		Not assigned	
" - R205		Not assigned	
PP009 - R206	R1/4 100kΩJ	R: FXD CAR 100kΩ ±5% 1/4W	

Parts No.	Stock No.	Description	
PP009 - R207	R1/4 330QJ	R: FXD CAR 330Q $\pm 5\%$ 1/4W	
" - R208	R1/4 100QJ	R: FXD CAR 100Q $\pm 5\%$ 1/4W	
" - R209	R1/4 100QJ	R: FXD CAR 100Q $\pm 5\%$ 1/4W	
" - R210	R1/4 680QJ	R: FXD CAR 680Q $\pm 5\%$ 1/4W	
" - R211		Not assigned	
" - C212		Not assigned	
" - C213	MC-13.5YZ104P	C: FXD CER 0.1 μ F +80, -20% 25V	
" - C214	111M-3502-685M	C: FXD ELECT TANTAL 6.8 μ F 35V	
" - C215	CQ08S 1H 822J	C: FXD Styrol 8200pF $\pm 5\%$ 50V	
" - C216	111M-2502-106M	C: FXD ELECT TANTAL 10 μ F 25V	
" - C217	111M-2502-106M	C: FXD ELECT TANTAL 10 μ F 25V	
" - C218	16 TH 10	C: FXD ELECT 10 μ F 16V	
" - C219	SC-80YZ 103P	C: FXD CER 0.01 μ F +80, -20% 50V	
" - C220	16 TH 10	C: FXD ELECT 10 μ F 16V	
" - C221	TAXH 20V 15 μ M	C: FXD ELECT TANTAL 15 μ F 20V	
" - C222			
thru	SC-80YZ 103P	C: FXD CER 0.01 μ F +80, -20% 50V	
" - C224			
" - C225	MC-13.5YZ 104P	C: FXD CER 0.1 μ F +80, -20% 25V	
" - C226	SC-60YZ 102P	C: FXD CER 0.001 μ F +80, -20% 50V	
" - C227	SC-80YZ 103P	C: FXD CER 0.01 μ F +80, -20% 50V	
" - C228	MC-13.5YZ 104P	C: FXD CER 0.1 μ F +80, -20% 25V	
" - C229	MC-13.5YZ 104P	C: FXD CER 0.1 μ F +80, -20% 25V	
" - C230	TAX1602-335M	C: FXD ELECT TANTAL 3.3 μ F 16V	
" - C231	MC-13.5YZ 104P	C: FXD CER 0.1 μ F +80, -20% 25V	
" - C232	TAXH 16V 3R3	C: FXD ELECT TANTAL 3.3 μ F 16V	
" - C233	MC-13.5YZ 104P	C: FXD CER 0.1 μ F +80, -20% 25V	
" - C234	501N5002-472K	C: FXD Metallized Film 470pF $\pm 10\%$ 50V	
" - C235	SC-80YZ 103P	C: FXD CER 0.01 μ F +80, -20% 50V	
" - C236	SC-80YZ 103P	C: FXD CER 0.01 μ F +80, -20% 50V	
" - C237	SL-80YZ 103P	C: FXD CER 0.01 μ F +80, -20% 50V	
" - C238	TAXH 16V 3R3	C: FXD ELECT TANTAL 3.3 μ 16V	
" - C239	SC-80YZ 103P	C: FXD CER 0.01 μ F +80, -20% 50V	
" - C240	LT-500	L: FXD Coil 500 μ H	
PP009 - C241	LT-500	L: FXD Coil 500 μ H	

Parts No.	Stock No.	Description	
PP009 - L242	LT-D200	L: FXD Coil 200 μ H	
" - K245	NR-H-12V	Relay	
" - IC250		Not assigned	
" - IC251		Not assigned	
" - IC252	SN7400N	IC: Quadruple 2-Input NAND Gate.	
" - IC253		Not assigned	
" - IC254	SN7426N	IC: Quadruple 2-Input High -Voltage Interface NAND Gate	
" - IC255	SN74LS00N	IC: Quadruple 2-Input NAND Gate Low Power	
" - C260 thru C262		Not assigned	
" - C263	DM10D 151J3	C: FXD DIPPED MICA 150pF $\pm 5\%$ 300V	
" - C264	TAXH 35 V1 μ FK	C: FXD ELECT TANTAL 1 μ F 35V	
" - C265	0.01UF 50WV	C: FXD CER 0.01 μ F +80, -20% 50WV	
" - C266	0.047UF 50WV	C: FXD CER 0.047 μ F +80, -20% 50V	
" - R267	R1/4 10k Ω J	R: FXD CAR 10k Ω $\pm 5\%$ 1/4W	
" - R268		Not assigned	
" - R269	MR-6-1	R: FXD COM 3.3k Ω	
" - R270	R1/4 33k Ω J	R: FXD CAR 33k Ω $\pm 5\%$ 1/4W	
" - R271		Not assigned	
" - Q56	2SC1815GR	Transistor SI NPN	
" - R247	R1/4 10k Ω J	R: FXD CAR 10k Ω $\pm 5\%$ 1/4W	
" - R248	R25-3.3k Ω J	R: FXD CAR 3.3k Ω $\pm 5\%$ 1/4W	
" - C258	0.01UF 50WV	C: FXD CER 0.01 μ F +80, -20% 50V	
" - C259	0.01UF 50WV	C: FXD CER 0.01 μ F +80, -20% 50V	
" - R280 thru PP009 - R283	RD25S 1k Ω J	R: FXD CAR 1k Ω $\pm 5\%$ 1/4W	

Parts No.	Stock No.	Description	
PG199 - IC1	SN7490N	IC: Decade Counter	
" - IC2	SN7404N	IC: Hex Inverter	
" - IC3	SN7447N	IC: BCD - to - Seven - Segment Decoder/Driver with 15V Output	
" - IC4	SN74LS145N	IC: BCD - to - Decimal Decoder/ Driver with 15 V Output Low Power	
" - IC5	SN74LS04N	IC: Hex Inverter Low Power	
" - IC6 thru	SN74S03N	IC: Quadruple 2-Input NAND Gate with Open - Collector Output Low Power	
" - IC8			
" - IC9	SN74LS04N	IC: Hex Inverter Low Power	
" - IC10	SN74LS00N	IC: Quadruple 2-Input NAND Gate Low Power	
" - IC11	SN74LS04N	IC: Hex Inverter Low Power	
" - IC12	SN74LS03N	IC: Quadruple 2-Input NAND Gate with Open-Collector Output Low Power	
" - IC13	SN74LS03N	IC: Quadruple 2-Input NAND Gate with Open-Collector Output Low Power	
" - IC14	SN74LS10N	IC: Triple 3-Input NAND Gate Low Power	
" - IC15	SN74LS02N	IC: Quadruple 2-Input NOR Gate Low Power	
" - IC16	SN74LS20N	IC: Dual 4-Input NAND Gate Low Power	
" - IC17	SN7430N	IC: 8-Input NAND Gate	
" - IC18	SN74LS04N	IC: Hex Inverter Low Power	
" - IC19	SN74LS42N	IC: BCD - to - Deciaml Decoder Low Power	
" - IC20	SN74LS20N	IC: Dual 4-Input NAND Gate Low Power	
" - Q25 thru	2SC1815	Transistor SI NPN	
" - Q27			
" - Q28 thru	2SA999	Transisistor SI PNP	
PG199 - Q34			

Parts No.	Stock No.	Description	
PG199 - D40	1S953	Diode SI	
" - D41	1S953	Diode SI	
" - R45 thru	R1/8 470ΩJ	R: FXD CAR 470Ω ±5% 1/8W	
" - R51			
" - R52 thru	R1/8 330ΩJ	R: FXD CAR 330Ω ±5% 1/8W	
" - R58			
" - R59	R1/4 3.3ΩJ	R: FXD CAR 3.3Ω ±5% 1/4W	
" - R60	TMR6-472	R: FXD COM 4.7kΩ	
" - R61	R1/8 4.7kΩJ	R: FXD CAR 4.7kΩ ±5% 1/8W	
" - R62	TMR6-103	R: FXD COM 10kΩ	
" - R63	R1/8 10kΩJ	R: FXD CAR 10kΩ ±5% 1/8W	
" - R64	R1/8 1.2kΩJ	R: FXD CAR 1.2kΩ ±5% 1/8W	
" - R65	R1/8 1.2kΩJ	R: FXD CAR 1.2kΩ ±5% 1/8W	
" - R66	R1/8 1kΩJ	R: FXD CAR 1kΩ ±5% 1/8W	
" - R67	R1/8 1kΩJ	R: FXD CAR 1kΩ ±5% 1/8W	
" - R68	R1/8 15kΩJ	R: FXD CAR 15kΩ ±5% 1/8W	
" - R69 thru	R1/8 82ΩJ	R: FXD CAR 82Ω ±5% 1/8W	
" - R71			
" - C75	10TH100	C: FXD ELECT 100μF 10V	
" - C76	10TH330	C: FXD ELECT 330μF 10V	
" - C77	FD76AF1H224Z	C: FXD CER 22μF +80, -20% 50V	
" - C78	FD76AF1H224Z	C: FXD CER 22μF +80, -20% 50V	
" - J85	DIS02016-402	Connector	
PG199 - J86	DIS0216-402	Connector	
	IC-31-P4	IC Socket	

TR 4110M

DISPLAY MODE CONTROL SECTION

PB201

Parts No.	Stock No.	Description	
4110M-PB201-IC1	SN7404N	IC:Hex Inverter	
" IC2 thru	SN 7400N	IC:Quadruple 2-Input NAND Gate	
" IC4			
" IC5	SN7493N	IC:4-Bit Binary Counter	
" IC6	SN74LS73N	IC:Dual J-K Master-Slave Flip-Flop Low Power	
" IC7	HD7416	IC:Hex Inverter Buffer/Driver with Open-Collector Hig-Voltage	
" IC8 thru	SN74121N	IC:Monostable Multivibrator	
" IC11			
" Q22	2SC1815GR	Transistor SI NPN	
" Q23	2SA639S	Transistor SI PNP	
" Q24		Not assigned	
" Q25	2SC1815GR	Transistor SI NPN	
" Q26		Not assigned	
" Q27		Not assigned	
" Q28	2SC1279	Transistor SI NPN	
" Q29		Not Assigned	
" Q30	2SC1279	Transistor SI PNP	
" Q31		Not assigned	
" Q32		Not Assigned	
" Q33		Not Assigned	
" Q34	2SC1815GR	Transistor SI NPN	
" Q35		Not assigned	
" Q36		Not assigned	
" Q37	2SC505	Transistor SI NPN	
" Q38 thru	2SA639S	Transistor SI PNP	
" Q40			
" D43		Not Assigned	
" D44	SM-1-08	Diode SI	
" D45	1SS16	Diode Schottky	
" D46	1SS16	Diode Schottky	
" D47		Not assigned	
4110M-PB201-D48		Not assigned	

Parts No.	Stock No.	Description	
4110M-PB201-D49	SM-1-08	Diode SI	
" " D50		Not assigned	
" " D51		Not assigned	
" " D52	RD-35B	Diode Zener	
" " D53	SM-1-08	Diode SI	
" " D54		Not assigned	
" " D55		Not assigned	
" " D56	SM-1-08	Diode SI	
" " D57	SM-1-08	Diode SI	
" " D58	05Z68	Diode Zener	
" " D59	SM-1-08	Diode SI	
" " D60	1S953	Diode SI	
" " R61	R1/4 1KΩJ	R: FXD CAR 1KΩ ±5% 1/4W	
" " R62	R1/4 1KΩJ	R: FXD CAR 1KΩ ±5% 1/4W	
" " R63 thru R67	R1/4 10KΩJ	R: FXD CAR 10KΩ ±5% 1/4W	
" " R68 thru R70	R1/4 220ΩJ	R: FXD CAR 220Ω ±5% 1/4W	
" " R71	R1/4 33KΩJ	R: FXD CAR 33KΩ ±5% 1/4W	
" " R72	R1/4 33KΩJ	R: FXD CAR 33KΩ ±5% 1/4W	
" " R73	R1/4 15ΩJ	R: FXD CAR 15Ω ±5% 1/4W	
" " R74	R1/4 15ΩJ	R: FXD CAR 15Ω ±5% 1/4W	
" " R75		Not assigned	
" " R76		Not assigned	
" " R77	R1/4 3.9KΩJ	R: FXD CAR 3.9KΩ ±5% 1/4W	
" " R78	R1/4 2.2KΩJ	R: FXD CAR 2.2KΩ ±5% 1/4W	
" " R79	RJ6S2KΩ	R: VAR WW 2KΩ	
" " R80	R1/2 68KΩJ	R: FXD CAR 68KΩ ±5% 1/2W	
" " R81 thru R83		Not assigned	
" " R84	R1/4 33KΩJ	R: FXD CAR 33KΩ ±5% 1/4W	
" " R85		Not assigned	
" " R86		Not assigned	
4110M-PB201-R87		Not assigned	

Parts No.	Stock No.	Description	
4110M-PB201-R88		Not Assigned	
" R89		Not assigned	
" R90		Not Assigned	
" R91		Not Assigned	
" R92		Not Assigned	
" R93	RM1 10KΩJ	R:FXD CAR 10KΩ ±5% 1W	
" R94	R25 4.7KΩJ	R:FXD CAR 4.7KΩ ±5% 1/4W	
" R95	R1/2-10kΩJ	R:FXD CAR 10kΩ ±5% 1/4W	
" R96		Not assigned	
" R97	R1/4-33KΩJ	R:FXD CAR 33KΩ ±5% 1/4W	
" R98	RJ6S20KΩ	R:VAR WW 20KΩ	
" R99	R1/4-22KΩJ	R:FXD CAR 22KΩ ±5% 1/4W	
" R100	R1/4-27KΩJ	R:FXD CAR 27KΩ ±5% 1/4W	
" R101	RJ6S20KΩ	R:VAR WW 20KΩ	
" R102	R1/4-68KΩJ	R:FXD CAR 68KΩ ±5% 1/4W	
" R103	R1/4-39KΩJ	R:FXD CAR 39KΩ ±5% 1/4W	
" R104	R1/4-10KΩJ	R:FXD CAR 10KΩ ±5% 1/4W	
" R105	R1/4-18KΩJ	R:FXD CAR 18KΩ ±5% 1/4W	
" R106	R1/4-560ΩJ	R:FXD CAR 560Ω ±5% 1/4W	
" R107	R1/4-330ΩJ	R:FXD CAR 560Ω ±5% 1/4W	
" R108	R1/4-33KΩJ	R:FXD CAR 33KΩ ±5% 1/4W	
" R109	R1/4-10KΩJ	R:FXD CAR 10KΩ ±5% 1/4W	
" R110	R1/4-3.3KΩJ	R:FXD CAR 3.3KΩ ±5% 1/4W	
" R111		Not assigned	
" R112		Not assigned	
" R113		Not assigned	
" R114		Not assigned	
" R115	R1/4-100KΩJ	R:FXD CAR 100KΩ ±5% 1/4W	
" R116	R1/4-68KΩJ	R:FXD CAR 68KΩ ±5% 1/4W	
" R117	R1/4-33KΩJ	R:FXD CAR 33KΩ ±5% 1/4W	
" R118		Not assigned	
" R119	R1/4-150KΩJ	R:FXD CAR 150KΩ ±5% 1/4W	
" R120	R1/4-4.7KΩJ	R:FXD CAR 4.7KΩ ±5% 1/4W	
4110M-PB201-R121	R1/4-15ΩJ	R:FXD CAR 15Ω ±5% 1/4W	

Parts No.	Stock No.	Description	
4110M-PB201-R122			
" " thru R124	R1/4 10KΩJ	R: FXD CAR 10KΩ ±5% 1/4W	
" " R125 thru R175		Not assigned	
" " R177	R1/4 10KΩJ	R: FXD CAR 10KΩ ±5% 1/4W	
" " R178	R1/4 1KΩJ	R: FXD CAR 1KΩ ±5% 1/4W	
" " C125	FNX-HS-1P22	C: FIX Polyester FLM 0.22μF ±10% 100V	
" " C126	FNX-HS-1P22	C: FXD Polyester FLM 0.22μF ±10% 100V	
" " C127	111M-2502-106M	C: FXD ELECT TANTAL 10μF ±20% 25V	
" " C128	111M-2502-336	C: FXD ELECT TANTAL 33μF 25V	
" " C129	MXT-1S1	C: FXD Mylar 0.01μF ±10% 100V	
" " C130	MXT-1S1	C: FXD Mylar 0.01μF ±10% 100V	
" " C131	SL10TH100	C: FXD ELECT 100μF 10V	
" " C132	SL10TH100	C: FXD ELECT 100μF 10V	
" " C133	MC135YZ104P	C: FXD CER 0.1μF +100, -0% 25V	
" " C134	SC60YZ102P	C: FXD CER 0.001μF +100, -0% 50V	
" " C135		Not assigned	
" " C136		Not assigned	
" " C137	SL10TH100	C: FXD ELECT 100μF 10V	
" " C138		Not assigned	
" " C139		Not assigned	
" " C140	SL25TH10	C: FXD ELECT 10μF 25V	
" " C141	SL25TH10	C: FXD ELECT 10μF 25V	
" " C142 thru C144		Not assigned	
" " C145 thru C147	0.01μF 500V	C: FXD CER 0.01μF +100, -0% 500V	
" " C148		Not assigned	
" " C149	0.01μF 500V	C: FXD CER 0.01μF +100, -0% 500V	
" " C150		Not assigned	
" " L161	EL1315-201MIRO	L: FXD Coil 200μH	
4110M-PB201-L162		Not assigned	

Parts No.	Stock No.	Description	
4110M-PB201-L163	ELO810SKI-181K	L:FXD Coil 180 μ H	
" L164			
" thru		Not assigned	
" L167			
" K171	UAM-10612G	Relay	
" K172	UAM-10612G	Relay	
" K173	UAMO10612G	Relay	
" C151			
" thru	0.01 μ F 500V	C:FXD CER 0.01 μ F +100,-0% 500V	
" 153			
" C154			
" thru	SC80YZ103P	C:FXD CER 0.01 μ F +100,-0% 50V	
" C158			
" C159	350TH4R7	C:FXD ELECT 4.7 μ F 350V	
" C160	10TH100	C:FXD ELECT 100 μ F 10V	
" C180	50T2R2	C:FXD ELECT 2.2 μ F 50V	
" C181	441N1003-472K	C:FXD Polyester FLM 0.0047 μ F $\pm$ 10% 100V	
" D41	1S953	Diode SI	
" D42	1S953	Diode SI	
" -C182	350T4.7	C:FXD ELECT 4.7 μ F 350V	
4110M-PB201-R176	RD25S 1M Ω J	R: FXD CAR 1M Ω $\pm$ 5% 1/4W	

TR 4110/4110M dBm SECTION PG197

Parts No.	Stock No.	Description	
PG197 - IC1	SN74LS83N	IC: 4-Bit Binary Full Adder Low Power	
" - IC2	SN74LS86N	IC: Quadruple 2-Input Exclusive -OR-Gate Low Power	
" - IC3	SN74LS04N	IC: Hex Inverter Low Power	
" - IC4	SN74LS10N	IC: Triple 3-Input NAND Gate Low Power	
" - D11 thru	WG713	Diode SI	
" - D30			
" - R35	TMR6-472	R: FXD COM 4.7k Ω	
" - R36	R1/4 4.7k Ω J	R: FXD CAR 4.7k Ω $\pm$ 5% 1/4W	
PG197 - C40	10TH100	R: FXD ELECT 100 μ F 10V	
PG197 - C41	0.01 μ F 50WV	R:FXD CER 0.01 μ F +80, -20% 50V	
PG197 - C42	0.01 μ F 50WV	R:FXD CER 0.01 μ F +80, -20% 50V	

TR 4110/M dBμ SECTION PG198

Parts No.	Stock No.	Description	
PG198 - IC1	SN74LS83N	IC: 4-Bit Binary Full Adder Low Power	
" - IC2	SN74185N	IC BCD-to-Binary and Binary-to -BCD Converter	
" - IC3	SN74LS04N	IC: Hex Inverter Low Power	
" - IC4	SN74LS04N	IC: Hex Inverter Low Power	
" - D10 thru	WG713	Diode SI	
" - D28			
" - R35	TMR6-472	R: FXD COM 4.7kΩ	
" - R36	TMR6-472	R: FXD COM 4.7kΩ	
" - C40	10th100	C: FXD ELECT 100μF 10V	
" - C41	0.01UF 50WV	C:FXD CER 0.01μF +80, -20% 50V	
" - C42	0.01UF 50WV	C:FXD CER 0.01μF +80, -20% 50V	
" - D29	1S953	Diode SI	
PG198 - D30	1S953	Diode SI	

TR 4110/M UNIT DISPLAY SG196

Parts No.	Stock No.	Description	
SG196 - D1 thru	5802-7433	Diode Light Emitting	
" - D3			
" - D4 thru	SLP24B	Diode Light Emitting	
" - D8			
" - R15	R1/4 82ΩJ	R: FXD CAR 82Ω ±5% 1/4W	
" - R16	R1/4 82ΩJ	R: FXD CAR 82Ω ±5% 1/4W	
" - J20		Not assigned	
SG196 - J21		Not assigned	
	401-9876A	Display Holder	

