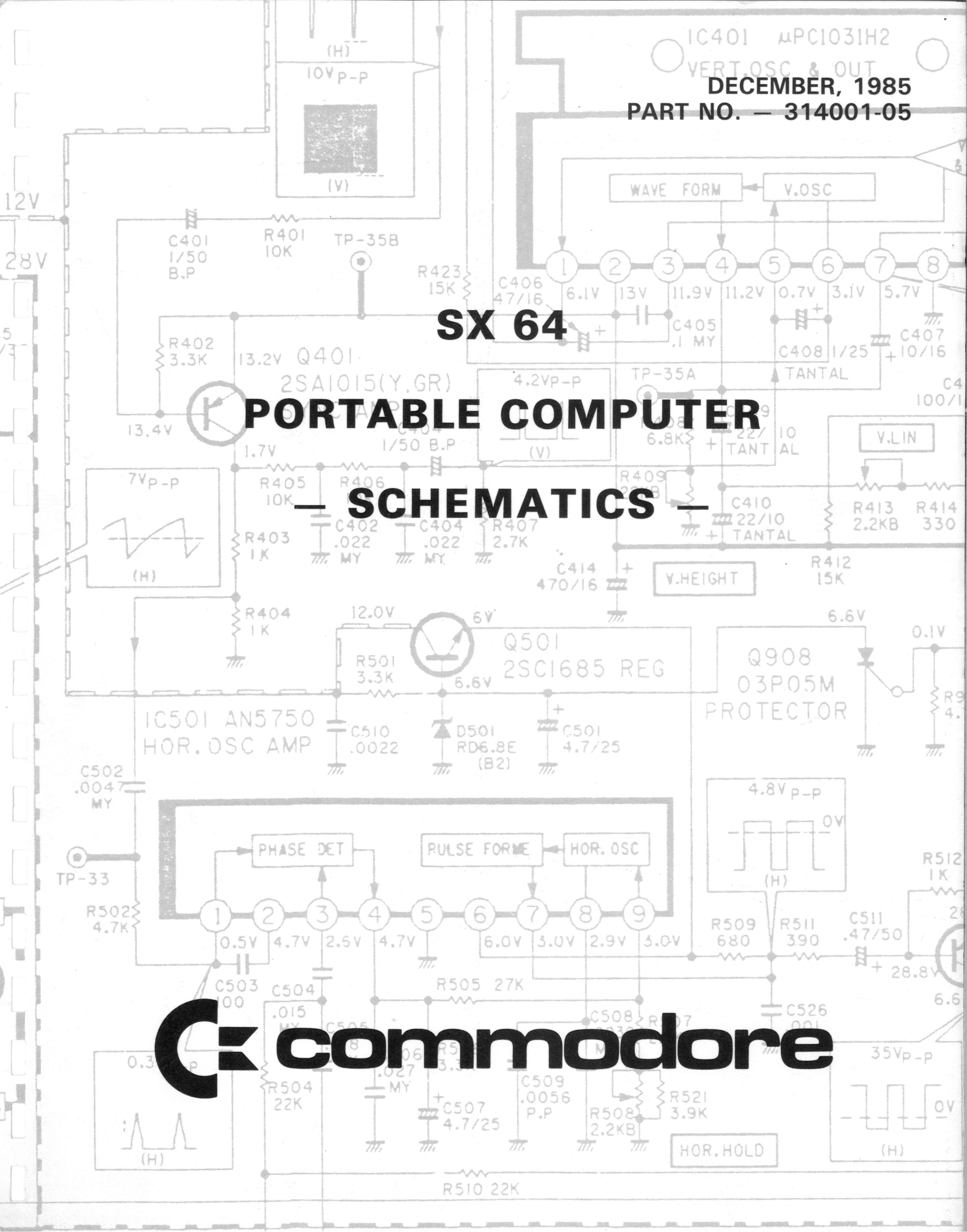


SX 64

PORTABLE COMPUTER

— SCHEMATICS —



SX 64

PORTABLE COMPUTER

— SCHEMATICS —

Commodore Business Machines, Inc.

1200 Wilson Drive, West Chester, Pennsylvania 19380 U.S.A.

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INTRODUCTION

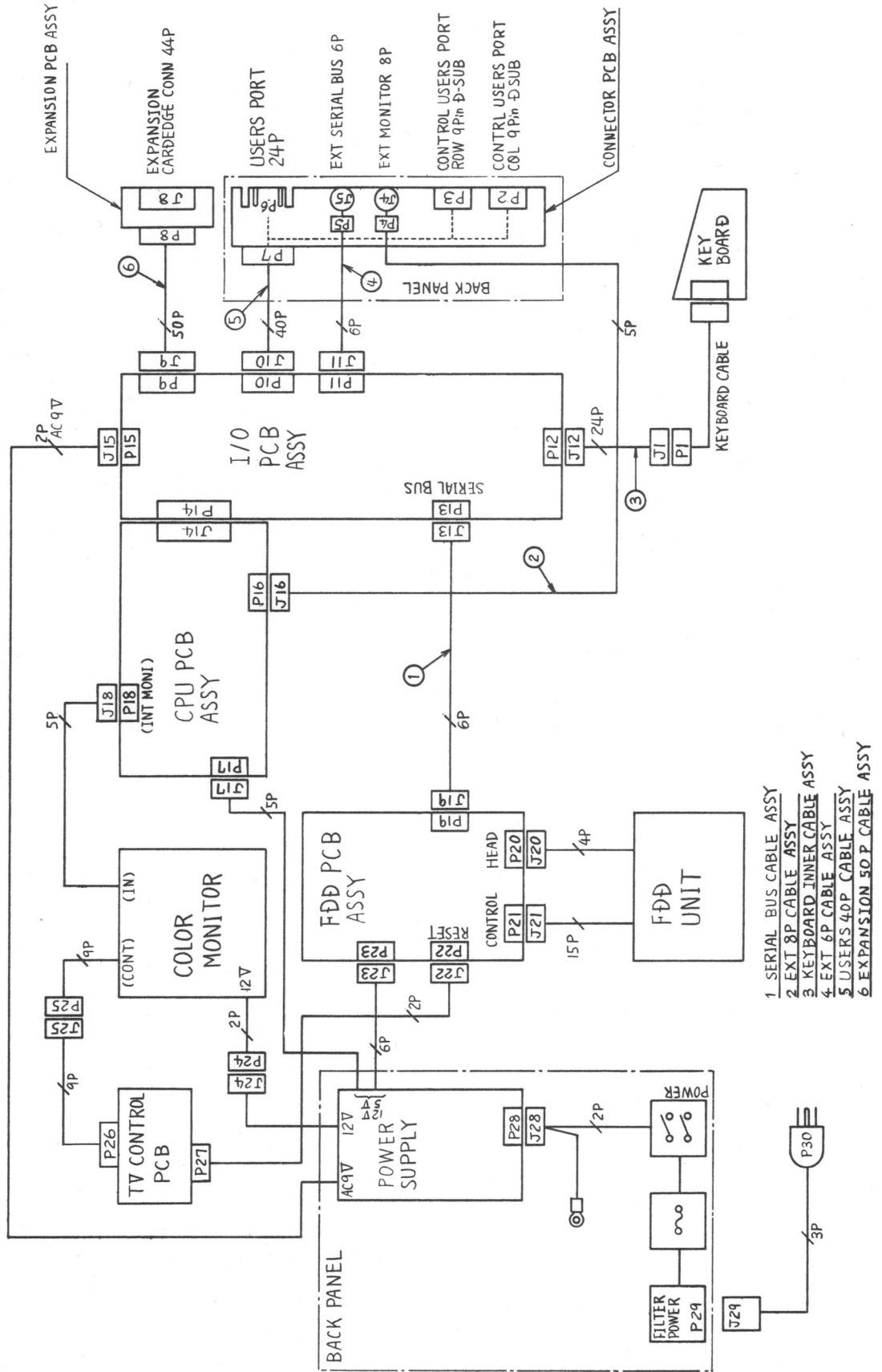
The SCHEMATICS and PARTS LISTS provided herein are intended for use by QUALIFIED SERVICE PERSONNEL. The troubleshooting, theory and diagnostics of the C64, 1702 and 1541 SERVICE MANUALS are **generally** applicable to the SX 64.

Parts availability from Commodore is limited. Some of the custom chips are used in many devices and are in stock. However, parts used in the monitor and power supply may be unique to the OEM manufacturer who supplied those assemblies. Only those parts indicated with a "C" are available from Commodore.

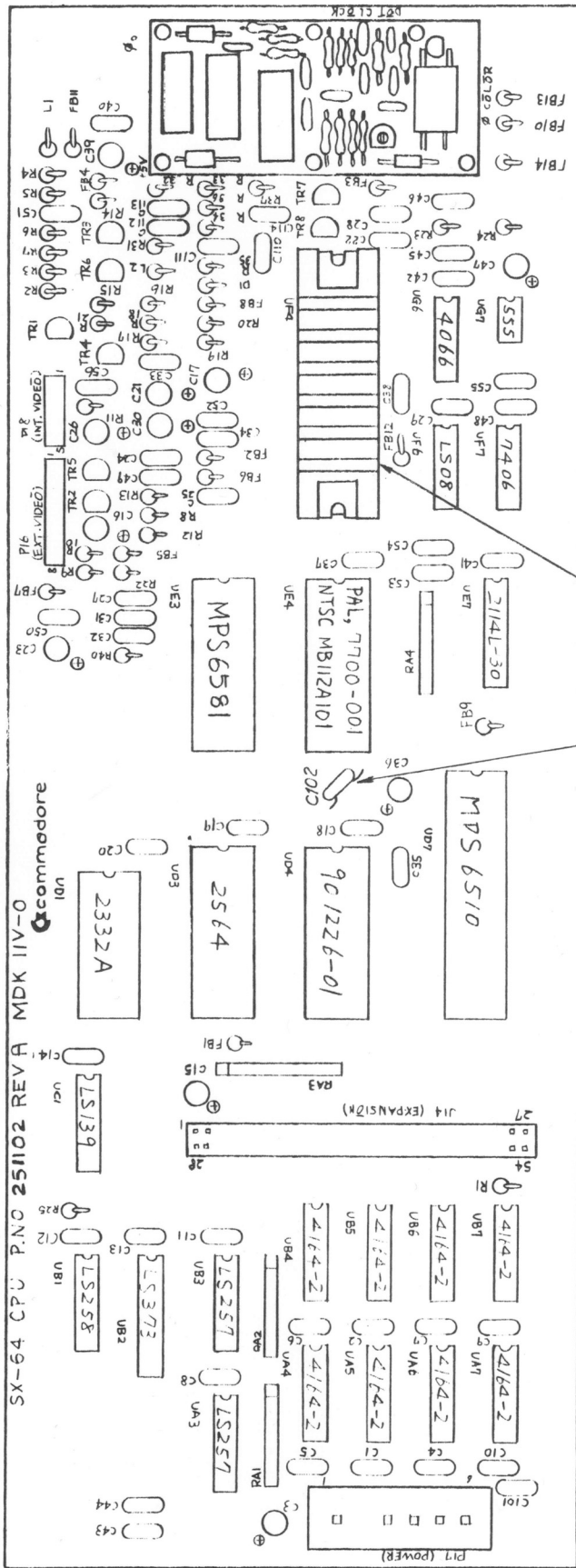
ASSEMBLY PARTS

C 250634-01	SX 64	KEYBOARD CABLE
C 251249-01	SX 64	USERS MANUAL
C 251250-01	SX 64	DEMO DISK
C 251555-01	SX 64	KEYBOARD
C 314095-01	SX 64	SINGLE KEY ASSY
C 325519-03	SX 64	ALPS DRIVE ASSY

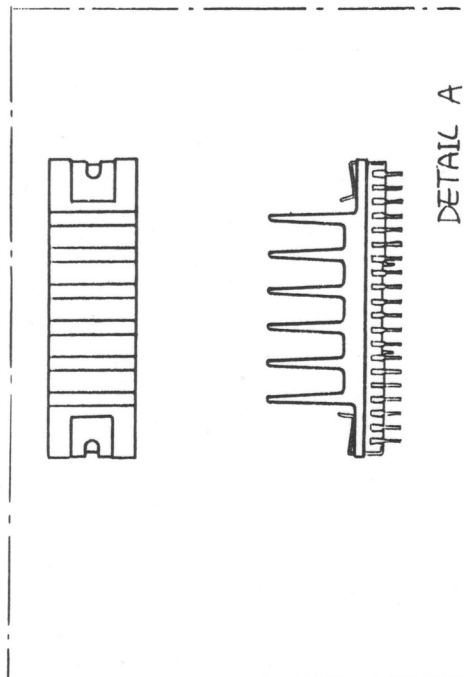
BLOCK DIAGRAM



SX 64 CPU PCB LAYOUT



SEE DETAIL A



PARTS LIST SX 64 CPU PCB ASSEMBLY #250408-01

PLEASE NOTE

Commodore part numbers are provided for reference only and do not indicate the availability of parts from Commodore. Industry standard parts (Resistors, Capacitors, Connectors) should be secured locally.

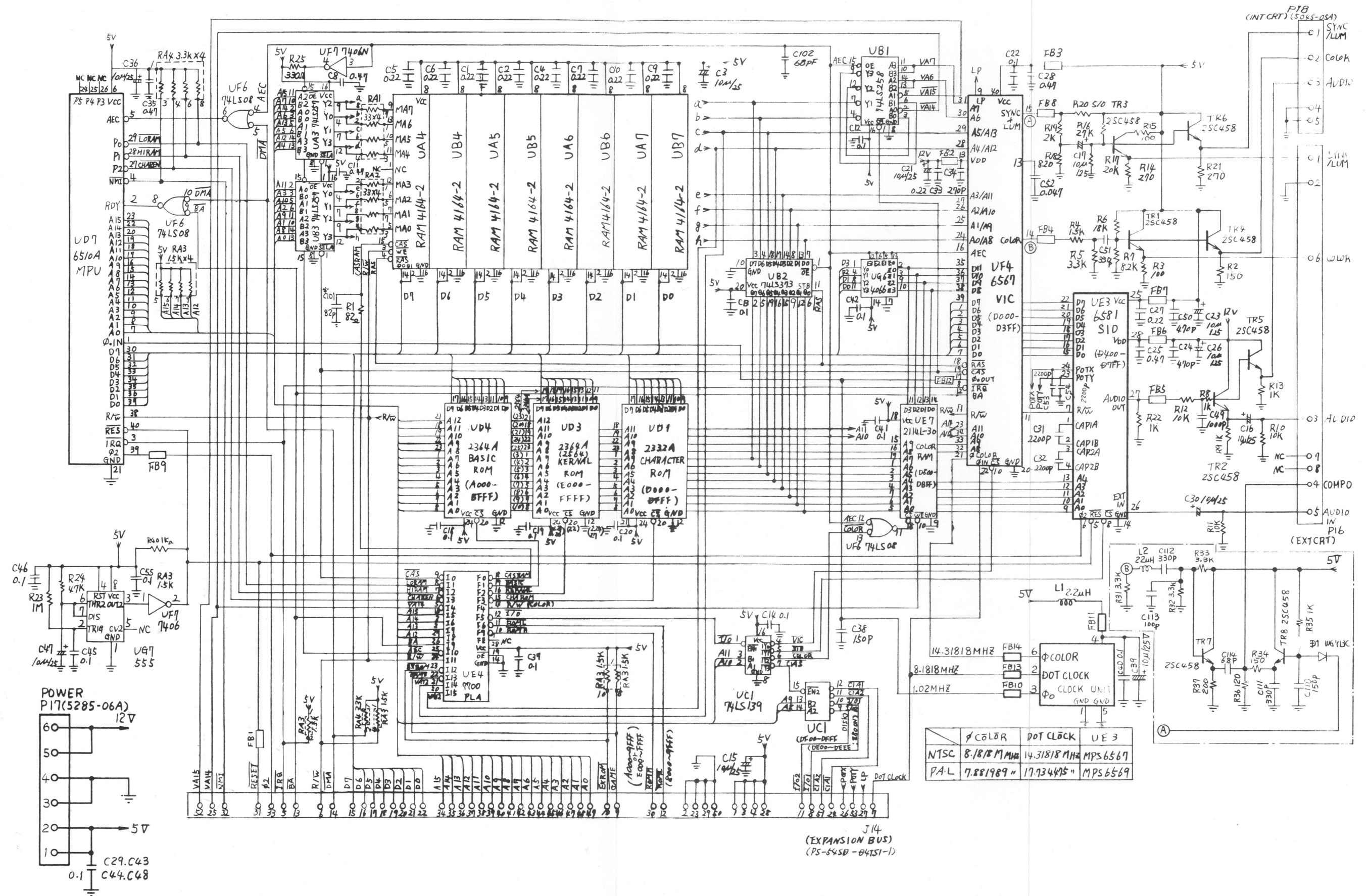
INTEGRATED CIRCUITS		RESISTORS (Continued)		
UA3	74LS257	DO NOT USE TI OR NS	R21	270
UA4-UA7	4164 DRAM 200NS		R22	1K
UB1	74LS258		R23	1M
UB2	74LS373		R24	47K
UB3	74LS257	DO NOT USE TI OR NS	R25	330
UB4-UB7	4164 DRAM 200NS		R31, 32,	3.3K
UC1	74LS139		33	
UD1	2332 ROM CHAR	C 901225-01	R34	150
UD3	2364 ROM Kernal	C 251104-04	R35	1K
UD4	2364 ROM Basic	C 901226-01	R36	120
UD7	6510 Microprocessor	C 906107-01	R37	200
UE3	6581 SID	C 906112-01	RESISTOR PACKS	
UE4	7700-001 PLA	C 906114-01	RA1, 2	33 8Pin
UE7	2114 RAM 300NS		RA3	3.3K 10Pin
UF4	6567 VIC	C 906109-04	RA4	3.3K 8Pin
UF6	7408		CAPACITORS	
UF7	7406		C1, 2	Ceramic 0.22 μ F, 25V
UG6	4066		C3	Elect 10 μ F, 25V
UG7	555 TIMER		C4-7	Ceramic 0.22 μ F, 25V
TRANSISTORS			C8	Ceramic 0.47 μ F, 50V
TR1-8	2SC 458		C9,10	Ceramic 0.22 μ F, 25V
DIODES			C11	Ceramic 0.47 μ F, 50V
D1	Diode, Signal WG 713C		C12-14	Ceramic 0.1 μ F, 25V
RESISTORS — All Values are in ohms-1/4 W 5% unless noted otherwise.			C15-17	Elect 10 μ F, 25V
R1	82		C18-20	Ceramic 0.1 μ F, 25V
R2	150		C21	Elect 10 μ F, 25V
R3	100		C22	Ceramic 0.1 μ F, 25V
R4	1.5K		C23	Elect 10 μ F, 25V
R5	3.3K		C24	Ceramic 470pF, 50V
R6	18K		C25	Ceramic 0.47 μ F, 50V
R7	8.2K		C26	Elect 10 μ F, 25V
R8	1K		C27	Ceramic 0.22 μ F, 25V
R9	1K		C28	Ceramic 0.47 μ F, 50V
R10, 11, 12	10K		C29	Ceramic 0.1 μ F, 25V
R13	1K		C30	Elect 10 μ F, 25V
R14	270		C31, 32	Ceramic 2200pF, 50V
R15	100		C33	Ceramic 0.22 μ F, 50V
R16	27K		C34	Ceramic 270pF, 50V
R17	20K		C35	Ceramic 0.47 μ F, 50V
R18	820		C36	Elect 10 μ F, 25V
R19	2K		C37	Ceramic 0.01 μ F, 25V
R20	510		C38	Ceramic 150pF, 50V
			C39	Elect 10 μ F, 25V
			C40-46	Ceramic 0.1 μ F, 25V
			C47	Elect 10 μ F, 25V
			C48	Ceramic 0.1 μ F, 25V

PARTS LIST PCB ASSEMBLY #250408-01 (Continued)

C - Indicates Commodore Stocked Part Number

CAPACITORS (Continued)				MISCELLANEOUS	
C49	Ceramic	1000pF,	25V	FB1-14	Ferrite bead
C50	Ceramic	470pF,	50V	L1	Coil Inductor 2.2μH
C51	Ceramic	33pF,	50V	L2	Coil Inductor 22μH
C52	Ceramic	0.047μF,	25V	Y1	Clock Osc 14.31818 MHz 251105-01
C53, 54	Ceramic	1800pF,	50V		
C55	Ceramic	0.1μF,	25V		
C101	Ceramic	82pF			
C102	Ceramic	68pF			
C110	Ceramic	150pF,	50V		
C111, 12	Ceramic	330pF			
C113	Ceramic	100pF			
C114	Ceramic	68pF			

SX 64 CPU SCHEMATIC DIAGRAM



	φ COLOR	DOT CLOCK	UE 3
NTSC	8.1818 MHz	14.31818 MHz	MPS 6567
PAL	7.881989 "	17.734475 "	MPS 6569

J14
(EXPANSION BUS)
(PS-545B - 04751-1)

PARTS LIST

SX 64 DISK CONTROL PCB

PCB ASSEMBLY #250410-01

PLEASE NOTE:

Commodore part numbers are provided for reference only and do not indicate the availability of parts from Commodore. Industry standard parts (Resistors, Capacitors, Connectors) should be secured locally.

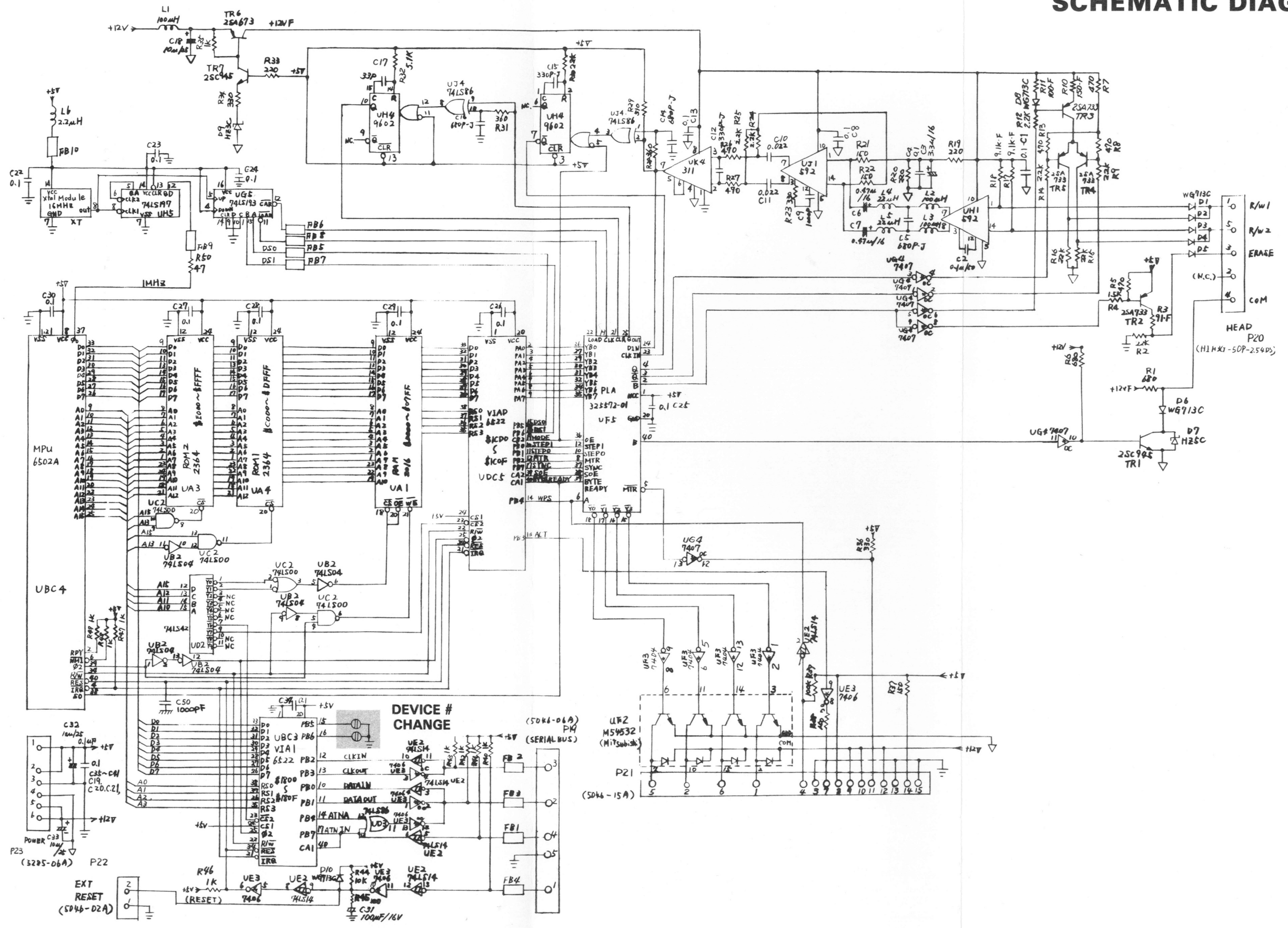
INTEGRATED CIRCUITS			RESISTORS (Continued)	
			— All are carbon 1/4 watt, 5% unless noted	
UA1	TMM2016P RAM		R7, 8	470
UA3	ROM \$E000-\$FFFF	C 901229-05	R9	2.2K
UA4	ROM \$C000-\$DFFF	C 325302-01	R10	150 1/4W, 1%
UB2	74LS04		R11	100 1/4W, 1%
UBC3	6522 VIA	C 901437-01	R12	2.2K
UBC4	6502A CPU	C 901435-02	R13	470
UC2	74LS00		R14	2.2K
UD2	74LS42		R15, 16	22K
UD3	74LS86		R17, 18	9.1K 1/4W, 1%
UDC5	6522 VIA	C 901437-01	R19, 20	220
UE2	74LS14		R21, 22	150
UE3	7406		R23	330
UF2	M54532P TRANS ARRAY	MITSUBISHI SUB:	R24, 25	2.2K
	ULN2064 TRANS ARRAY		R26, 27	470
UF3	7404		R28	360
UF5	GATE ARRAY	C 325572-01	R29	510
UG4	7407		R30	22K
UG5	74LS193		R31	360
UH1	592 VIDEO AMP		R32	5.1K
UH4	9602 ONE SHOT		R33	220
UH5	74LS197		R34	330
UJ1	592 VIDEO AMP		R35	1K
UJ4	74LS86		R36	330
UK4	LM311 COMPARATOR		R37, 38	150
			R39	100K
TRANSISTORS			R40-43	1K
TR1	2SC 945	SUB:2SC 1815	R44	10K
TR2-5	2SA 733	SUB:2SA 1015	R45	100
TR6	2SA 673		R46-49	1K
TR7	2SC 945	SUB:2SC 1815	R50	47
			CAPACITORS	
DIODES			C1, 2	Ceramic .1 μ F, 25V
D1-6	Signal, 1N4148		C3	Electrolytic 3.3 μ F, 16V
D7	Zener, 5.1V, 500mW, +/-5% HZ5C-2		C4	Ceramic .1 μ F, 25V
D8	Signal, 1N4148		C5	Ceramic 680pF, 50V
D9	Zener, 3.3V, 500mW, +/-5% HZ3C-2		C6, 7	Tantalium 0.47 μ F, 16V
D10	Signal, 1N4148		C8	Ceramic .1 μ F, 25V
RESISTORS — All are carbon 1/4 watt, 5% unless noted			C9	Ceramic 1000pF, 25V
R1	680		C10, 11	Ceramic .022 μ F, 25V
R2	22K		C12	Ceramic 330pF, 50V
R3	91 1/4W, 1%		C13	Ceramic .1 μ F, 25V
R4	1.5K		C14	Ceramic 680pF, 50V
R5	470		C15	Ceramic 330pF, 50V
R6	680		C16	Ceramic 680pF, 50V
			C17	Ceramic 33pF, 50V
			C18	Electrolytic 10 μ F, 25V
			C19-21	Ceramic .1 μ F, 25V

PARTS LIST SX 64 CPU PCB ASSEMBLY #250410-01 (Continued)

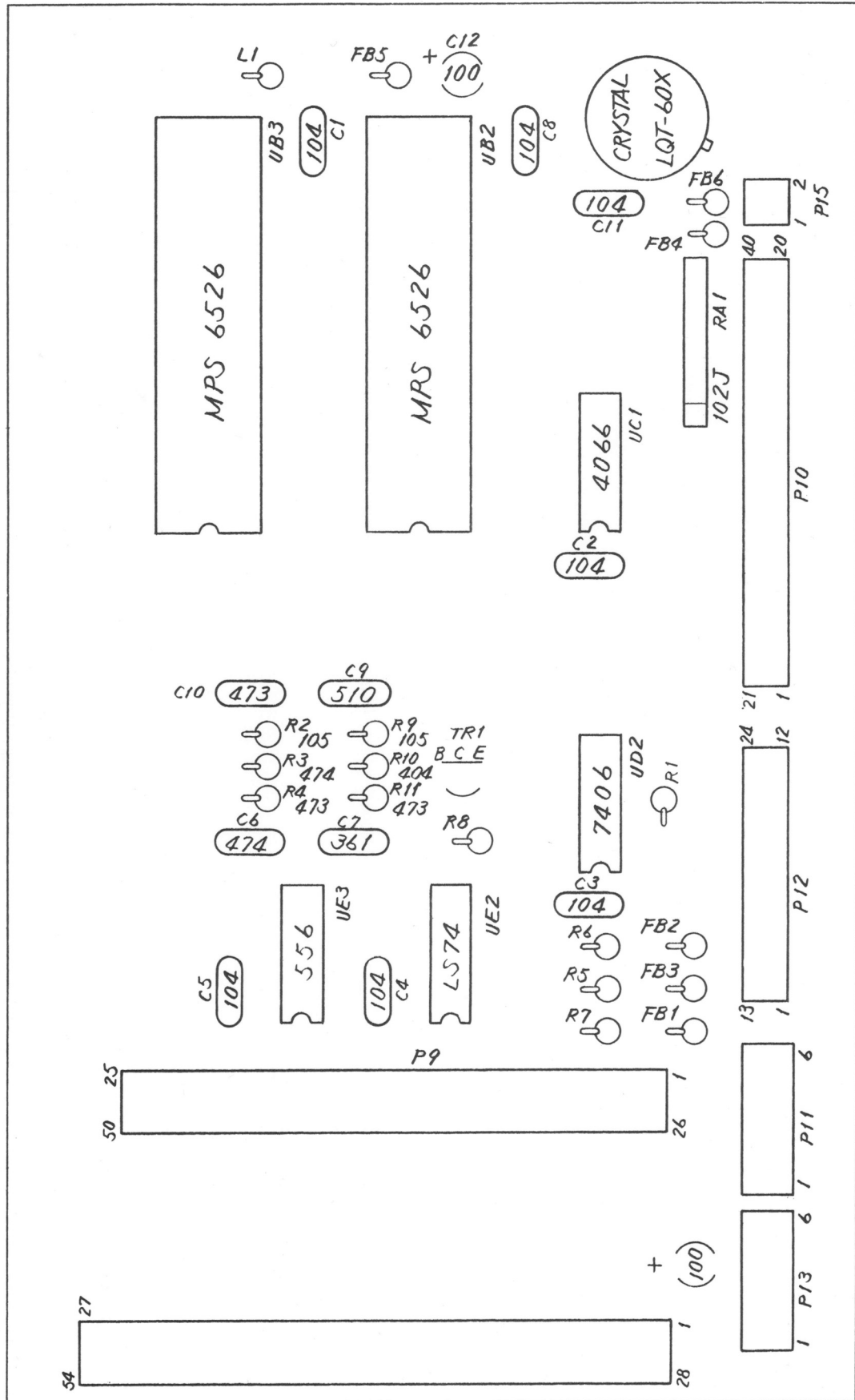
C - Indicates Commodore Stocked Part Number

CAPACITORS (Continued)				MISCELLANEOUS – PCB ASSY #1540048	
C22-30	Ceramic	.1 μ F,	25V	FB1-10	Ferrite Bead
C31	Electrolytic	100 μ F,	16V	L1-3	Coil Inductor 100 μ H
C32, 33	Electrolytic	10 μ F,	25V	L4, 5	Coil Inductor 22 μ H
C34-41	Ceramic	.1 μ F,	25V	L6	Coil Inductor 2.2 μ H
C50	Ceramic	1000pF,	25V	Y1	Crystal Module 16 MHz 50ppm (NDK, Tyocom) 325566-01 Sub:
					Crystal Module 16 MHz 100ppm (NDK, Tyocom, Kyocera) 325566-02

SX 64 FDD SCHEMATIC DIAGRAM



SX 64 I/O PCB LAYOUT



PARTS LIST

SX 64 I/O

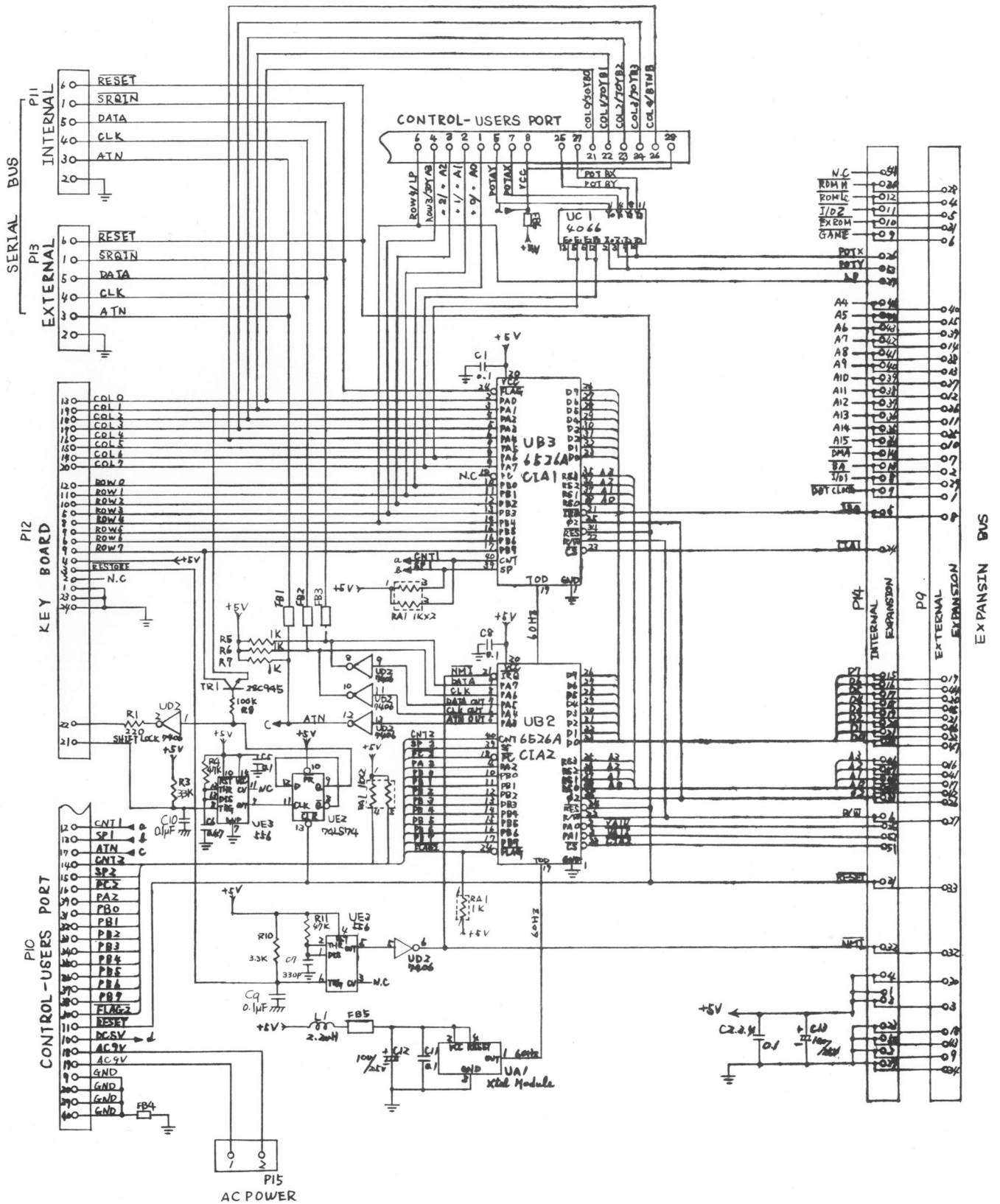
PCB ASSEMBLY #250409-01

PLEASE NOTE:

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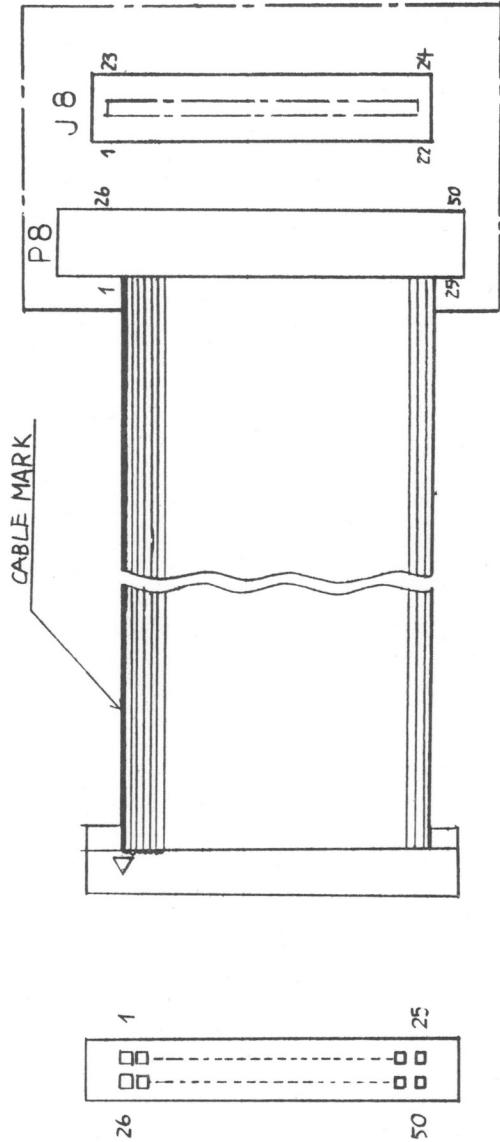
INTEGRATED CIRCUITS		RESISTOR PACK	
UC1	4066	RA1	1K 8Pin
UB2, 3	6526 CIA	C 906108-02	
UD2	7406		
UE2	74LS74A		
UE3	556		
TRANSISTORS			
TR1	2SC 945	CAPACITORS	
RESISTORS – All Values are in ohms-1/4 W 5% unless noted otherwise.		C1-5	Ceramic 0.1 μ F, 25V
R1	220	C6	Ceramic 0.47 μ F, 50V
R3	3.3K	C7	Ceramic 330pF, 50V
R4	47K	C8-11	Ceramic 0.1 μ F, 25V
R5, 6, 7	1K	C12, 13	Elect 10 μ F, 25V
R8	100K	MISCELLANEOUS	
R10	3.3K	FB1-6	Ferrite Bead
R11	47K	L1	Coil Inductor 2.2 μ H
		UA1	Crystal Module 60Hz

SX 64 I/O SCHEMATIC DIAGRAM

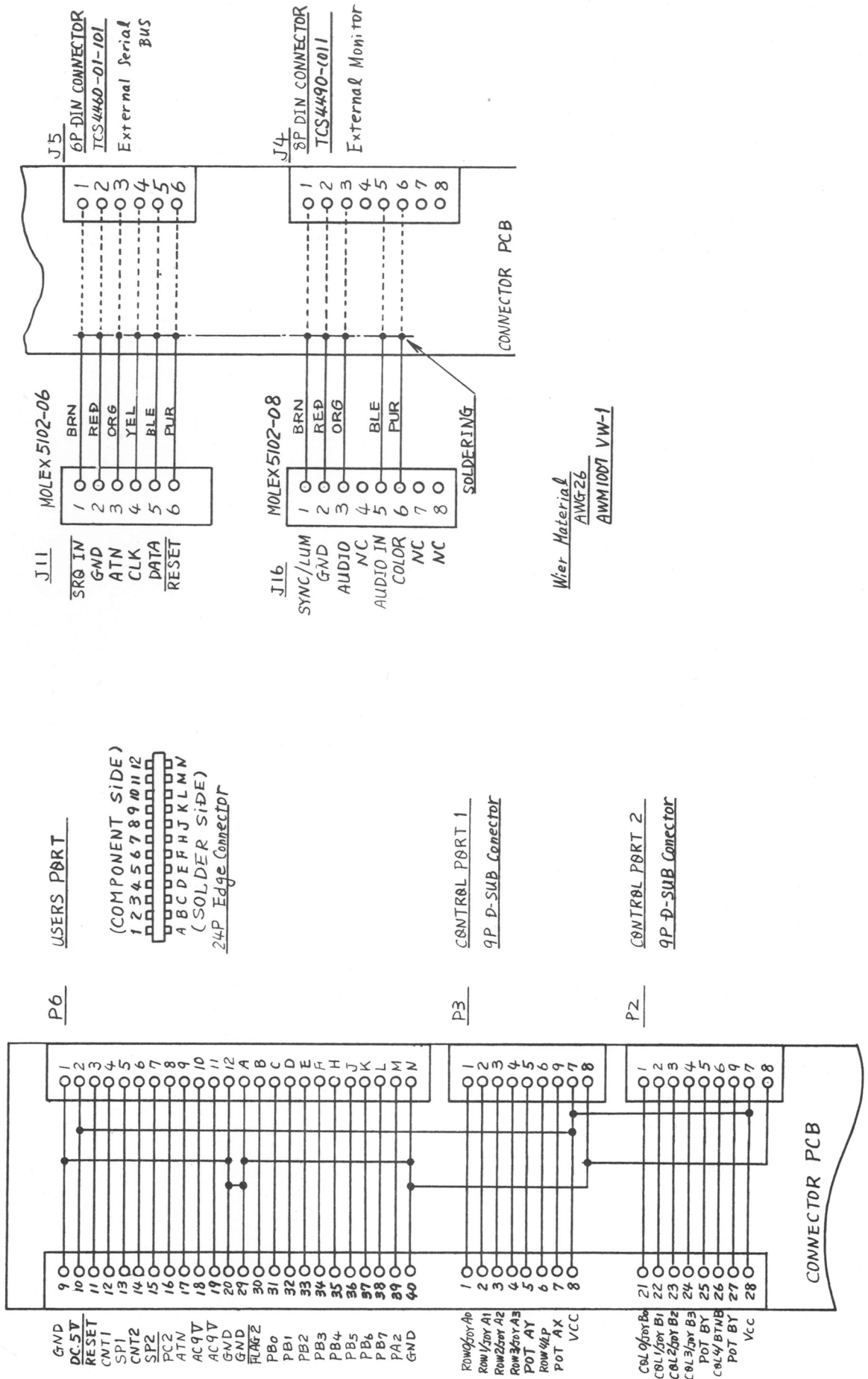


SX 64 EXPANSION PCB LAYOUT

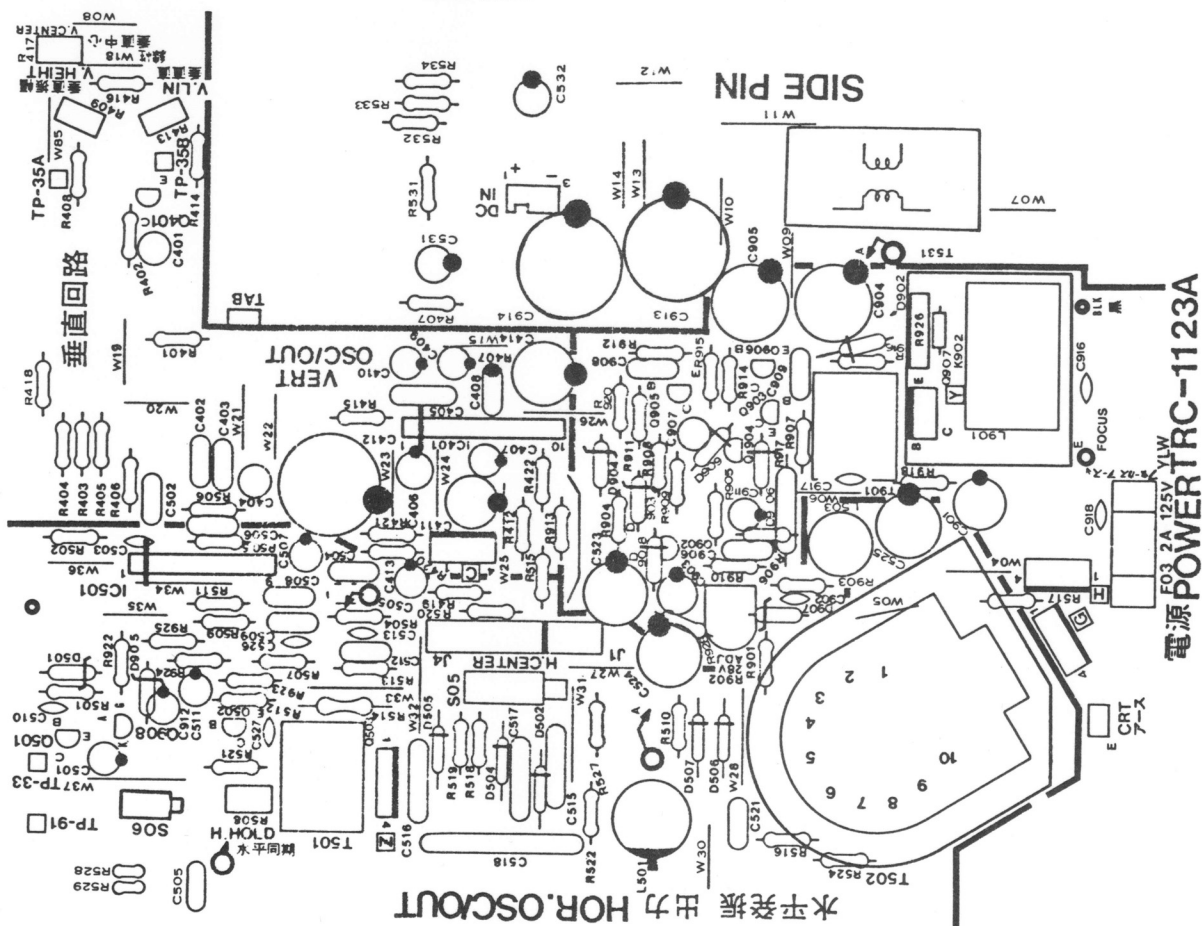
EXPANSION	P8	J8	EXPANSION	P8	J8
GND	9	1	GND	34	23
+5 V	3	2	ROMH	28	24
+5 V	30	3	RESET	33	25
LRQ	8	4	NMI	32	26
R/W	27	5	SØ2	26	27
DOT CLOCK	1	6	A15	10	28
I/O1	29	7	A14	35	29
GAME	6	8	A13	11	30
EXROM	31	9	A12	36	31
I/O2	5	10	A11	12	32
ROML	4	11	A10	37	33
BA	2	12	A9	13	34
DMA	7	13	A8	38	35
D7	19	14	A7	14	36
D6	44	15	A6	39	37
D5	20	16	A5	15	38
D4	45	17	A4	40	39
D3	21	18	A3	16	40
D2	46	19	A2	41	41
D1	22	20	A1	17	42
DO	47	21	A0	42	43
GND	18	22	GND	43	44
OPEN	23	—	OPEN	48	—
"	24	—	"	49	—
"	25	—	"	50	—



SX 64 EXPANSION SCHEMATIC DIAGRAM



SX 64 MONITOR PCB LAYOUT



SX 64 MONITOR ASSEMBLY PARTS LIST

PLEASE NOTE:

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CHASSIS PARTS

V01	* CRT,	150BMB22-AF
	* CRT Socket,	C39158-D
DY1	* Def. Yoke,	C29131-VA (See note below)
T502	* F.B. Transf.	CJ39587-00A
Q907	Transistor,	2SD1118
Q503	Transistor,	2SC2335
R523	* Focus Pack,	CJ49510-257
C001	* Ceramic Cap,	1000pF, 3KV, + 100%, - 0%

NOTE:
IF DEFLECTION YOKE CJ26235-00A IS USED,
THE FOLLOWING PARTS VALUES CHANGE:

DEF and POWER REG PCB 1124 A-1	
CAPACITORS	
C515, 517	*Polypropylene, 5600pF, 630V, ± 5%
C519, 520	*Elect, 4.7µF, 160V, + 30%, - 10%

VIDEO and AUDIO PCB 1124 A-2	
CAPACITORS	
C201	Elect, 1000µF, 25V, ± 20%
C206	Bi-Polar Elect, 4.7µF, 50V, ± 20%
C522	Mylar, .1µF, 50V, ± 20%

* SAFETY COMPONENTS — Use EXACT replacement ONLY.

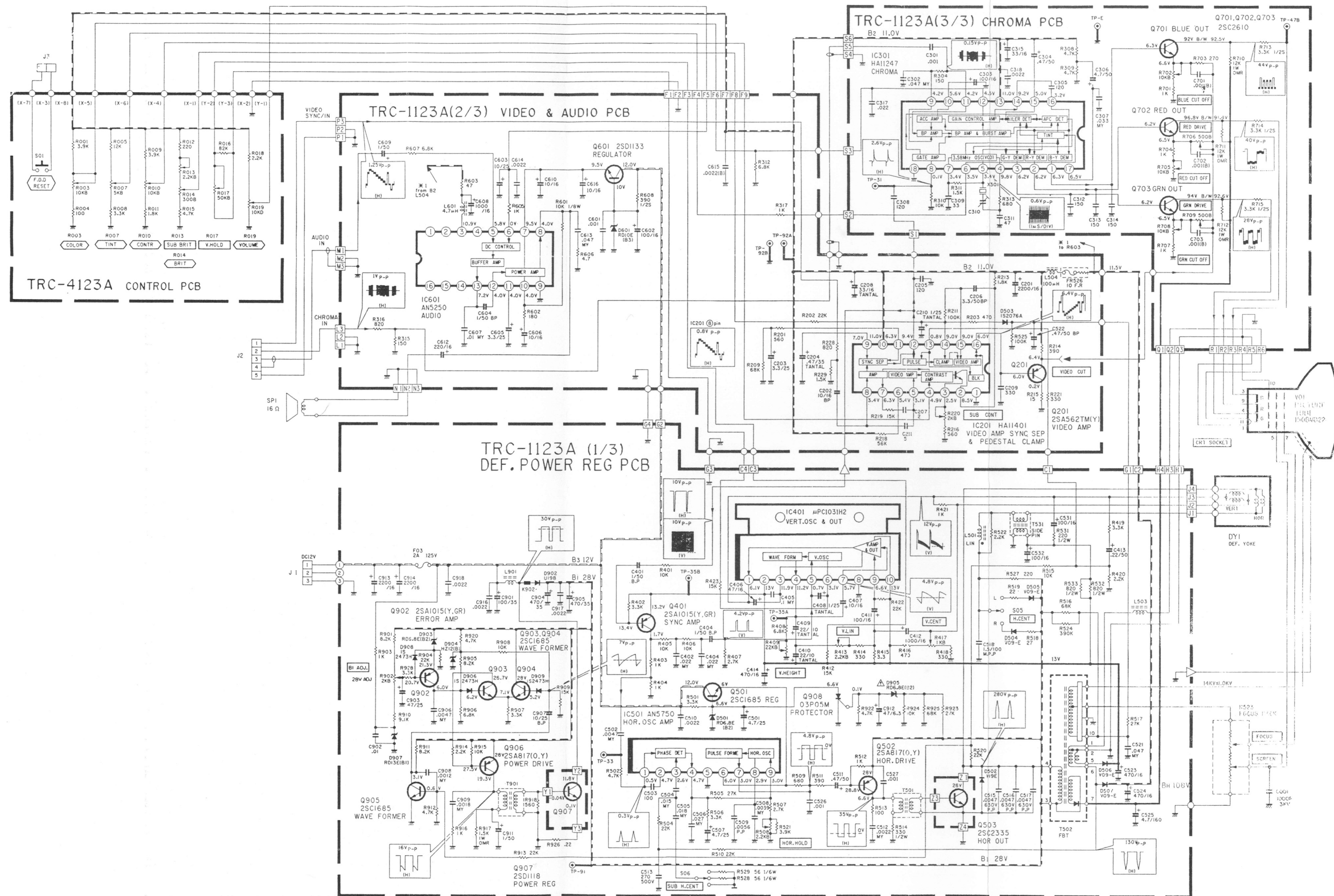
DEF and POWER REG PCB 1123 A-1		CAPACITORS	
INTEGRATED CIRCUITS		C401, 404	Bi-Polar Elect, 1 μ F, 50V, \pm 20%
IC401	Vert., μ PC1031H2	C408	Tantalium, 1 μ F, 25V, \pm 10%
IC501	Hor., AN5750	C409, 410	Tantalium, 22 μ F, 10V, \pm 10%
TRANSISTORS		C412	Elect, 1000 μ F, 25V, \pm 20%
Q401	2SA1015 (Y, GR)	C413	Elect, 0.22 μ F, 50V, \pm 20%
Q501	2SC1685	C509	Polypropylene, 5600pF, 50V, \pm 5%
Q502	2SA817A (O,Y)	C515,16,17	*Polypropylene, 4700pF, 630V, \pm 5%
Q902	2SA1015 (Y, GR)	C518	Mtl Mylar, 1.5 μ F, 100V, \pm 5%
Q903,4,5	2SC1685	C520	*Polypropylene, 0.047 μ F, 200V, \pm 10%
Q906	2SA817A (O,Y)	C523, 24	*Elect, 470 μ F, 16V, +30%, -10%
Q907	2SD1118	C525	Elect, 4.7 μ F, 160V, +30%, -10%
DIODES		C901	*Elect, 100 μ F, 35V, +30%, -10%
D501	Zener RD6.8E (B2)	C904, 905	*Elect, 470 μ F, 35V, +30%, -10%
D502	V19E	C907	Bi-Polar Elect, 10 μ F, 25V, \pm 20%
D504,5,6,7	V09E	C913, 914	*Elect, 2200 μ F, 16V, +30%, -10%
D902	U19B	TRANSFORMERS	
D903	*Zener RD6.8E (B2)	T901	Pwr Drive, A76567-MA
D904	Zener Hz12 (B)	T501	Hor Drive, A76568-MA
D905	*Zener RD6.8E (B2)	T502	*F.B., CJ39587-00A
D906	1S2473H	T531	*Side Pin, C39084-A
D907	*Zener RD13E (B1)	MISCELLANEOUS	
D908, 9	1S2473H	F03	*Fuse, 2A, 125V
RESISTORS		VIDEO and AUDIO PCB ASSY 1123 A-2	
R901	*Carbon, 8.2K, 1/4W, \pm 5%	INTEGRATED CIRCUITS	
R910	*Carbon, 9.1K, 1/4W, \pm 5%	IC201	Audio, HA11401
R917	Oxide Mtl Film, 1.5K, 1W, \pm 5%	IC601	Video, AN5250
R923	*Carbon, 27K, 1/4W, \pm 5%	TRANSISTORS	
R924	*Carbon, 10K, 1/4W, \pm 5%	Q201	2SA562TM (Y)
R925	*Carbon, 68K, 1/4W, \pm 5%	Q601	2SD1133
R926	Mtl Film, 0.22, 2W, \pm 10%	DIODES	
VARIABLE RESISTORS		D601	Zener, RD10E (B3)
R409	V. Hght, 22K	D503	1S2076A
R413	V. Lin, 2.2K		
R417	V. Center, 1K		
R508	Hor. Hold, 2.2K		
R909	*B1 Adj., 2K		

*SAFETY COMPONENTS — Use EXACT replacement ONLY.

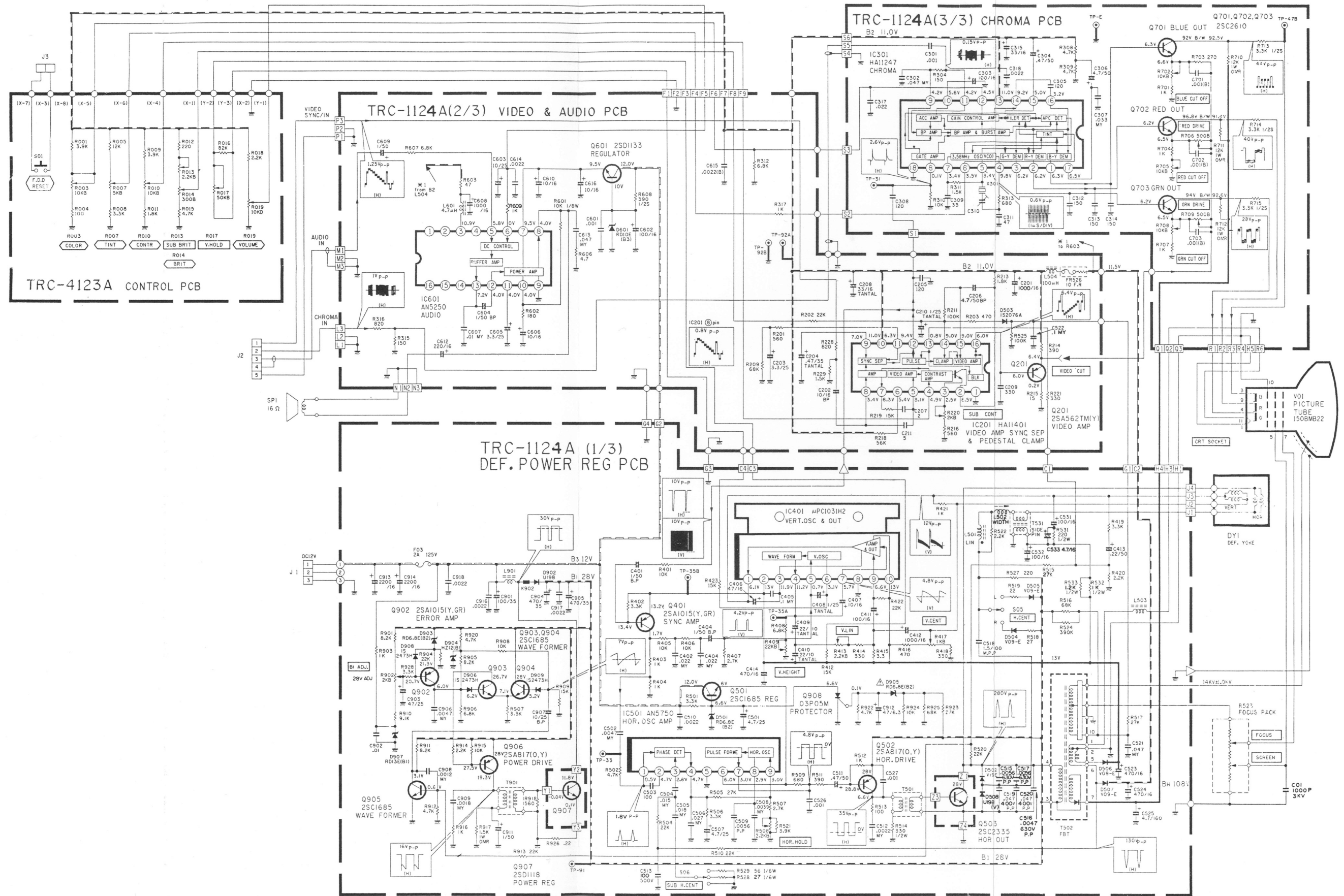
VIDEO and AUDIO PCB ASSY 1123 A-2 (Continued)		CHROMA PCB ASSY 1123 A-3	
VARIABLE RESISTOR		INTEGRATED CIRCUITS	
R220	Sub Cont, 2K	IC301	HA11247
CAPACITORS		TRANSISTORS	
C201	Elect, 2200 μ F, 16V, +30%, -10%	Q701,2,3	2SC2610
C202	Bi-Polar Elect, 10 μ F, 16V, \pm 20%	RESISTORS	
C203	Elect, 3.3 μ F, 25V, +30%, -10%	R710,11, 12	Oxide Mtl Film, 12K, 1W, \pm 5%
C204	Tantalium, 0.47 μ F, 35V, \pm 20%	VARIABLE RESISTORS	
C206	Bi-Polar Elect, 3.3 μ F, 50V, \pm 20%	R702	B. Cut-Off, 10K
C208	Tantalium, 33 μ F, 16V, \pm 10%	R705	R. Cut-Off, 10K
C210	Tantalium, 1 μ F, 25V, \pm 20%	R706	R. Drive, 500
C604	Bi-Polar Elect, 1 μ F, 50V, \pm 20%	R708	G. Cut-Off, 10K
C608	Elect, 1000 μ F, 25V, \pm 20%	R709	G. Drive, 500
C522	Bi-Polar Elect, 0.47 μ F, 50V, \pm 20%	CAPACITORS	
MISCELLANEOUS		C303	Elect, 100 μ F, 16V, \pm 20%
FR526	*Fusible Resistor, 10, 1/4W, \pm 5%	C304	Elect, 0.47 μ F, 50V, \pm 20%
L504	Peaking Coil 100 μ H	C306	Elect, 4.7 μ F, 50V, \pm 20%
L601	Peaking Coil 4.7 μ H	C310	Trimmer
		C315	Elect, 33 μ F, 16V, \pm 20%
		MISCELLANEOUS	
		X301	Crystal A75746

*SAFETY COMPONENTS — Use EXACT replacement ONLY.

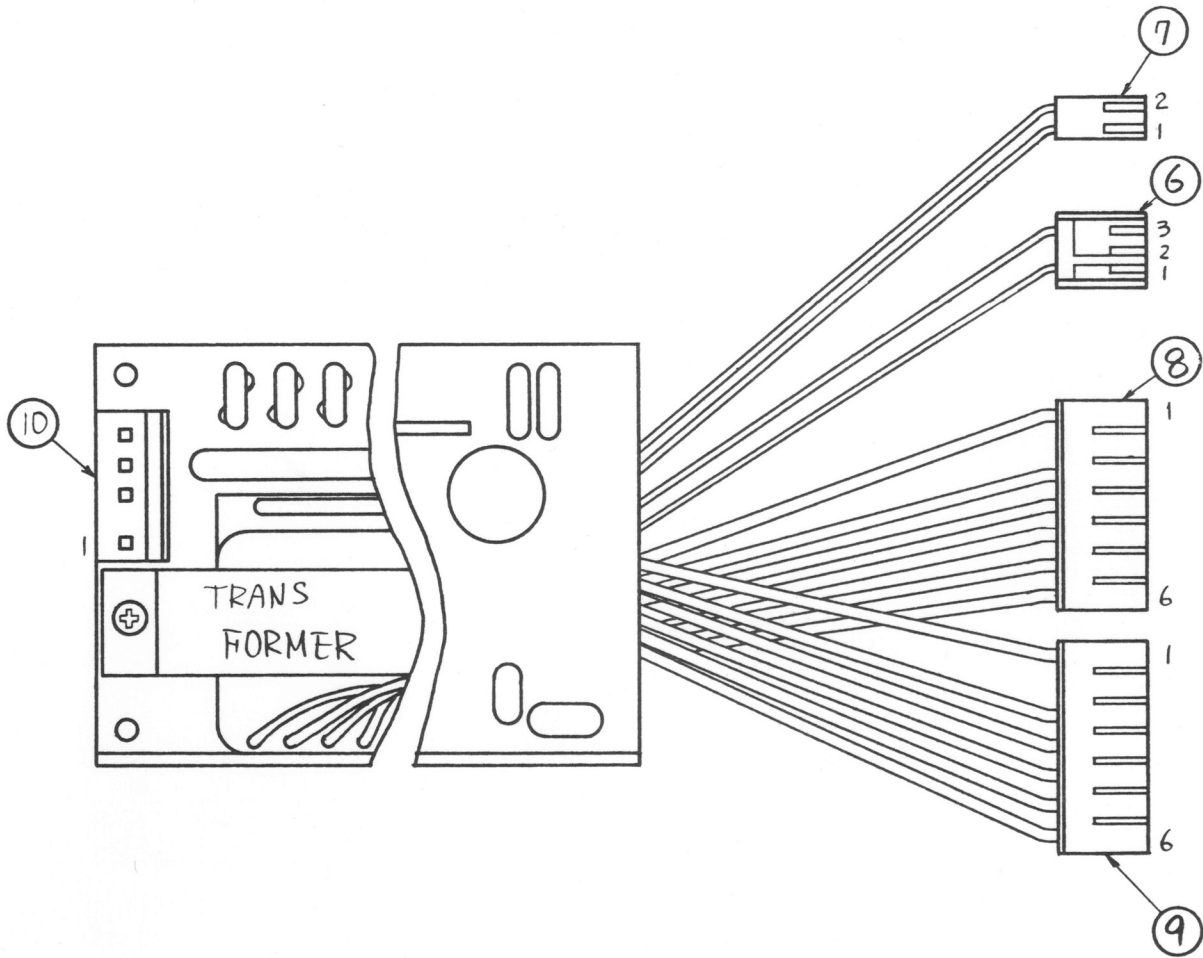
SX 64 MONITOR SCHEMATIC -01



SX 64 MONITOR SCHEMATIC -01A



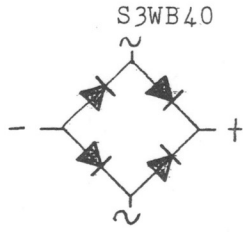
POWER SUPPLY #250623 WIRING DIAGRAM



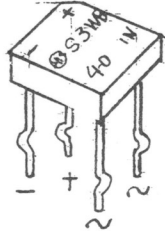
PART NO	VENDOR NO	VENDOR'S NAME	POLE	PIN NO	NAME OF SIGNAL	COLOR	WIRE	NOTE
6	Ei 171822-3	AMP	3	1	12V	BRN	UL1007 AWG24	
				2	NC			
				3	GND	BLK		
7	5102-02	MOLEX	2	1	AC9V	BLU	UL1007 AWG24	
				2	AC9V	BLU		
8	5227-06	MOLEX	6	1	5V	ORG	UL1007 AWG18	
				2	5V	ORG		
				3	GND	BLK		
				4	GND	BLK		
				5	12V	RED		
				6	12V	RED		
9	5227-06	MOLEX	6	1	5V	ORG	UL1007 AWG18	
				2	5V	ORG		
				3	GND	BLK		
				4	GND	BLK		
				5	12V	RED		
				6	12V	RED		
10	5285-04A	MOLEX	4	1	AC IN			
				2	AC IN			
				3	NC			
				4	F,G			

PARTS INFORMATION

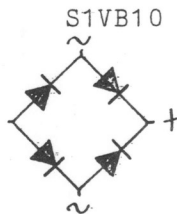
1, REC1



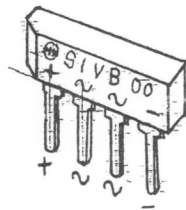
RECTIFIER STACKS DIODES



2, REC2



RECTIFIER STACKS DIODES



3, D1

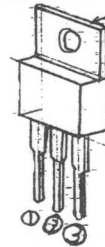
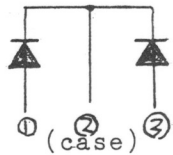
ERB24-06C

FAST RECOVERY DIODES



4, D6,7

ESAC85-009 , ESAC82-004 SCHOTTKY BARRIER DIODES

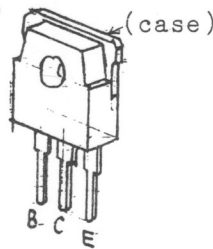
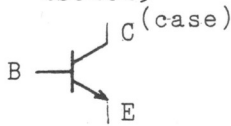


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5, Q1

2SC2625

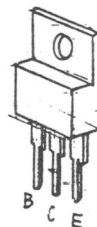
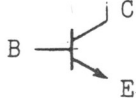
POWER TRANSISTOR



6, Q3

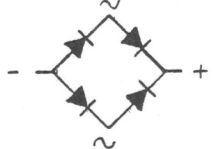
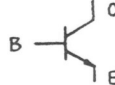
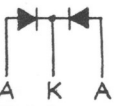
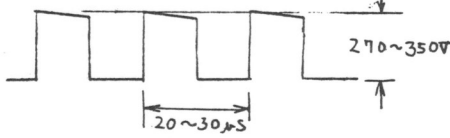
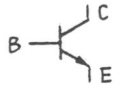
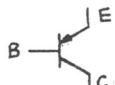

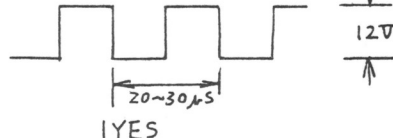
2SC2334 (case)

POWER TRANSISTOR
C (case)

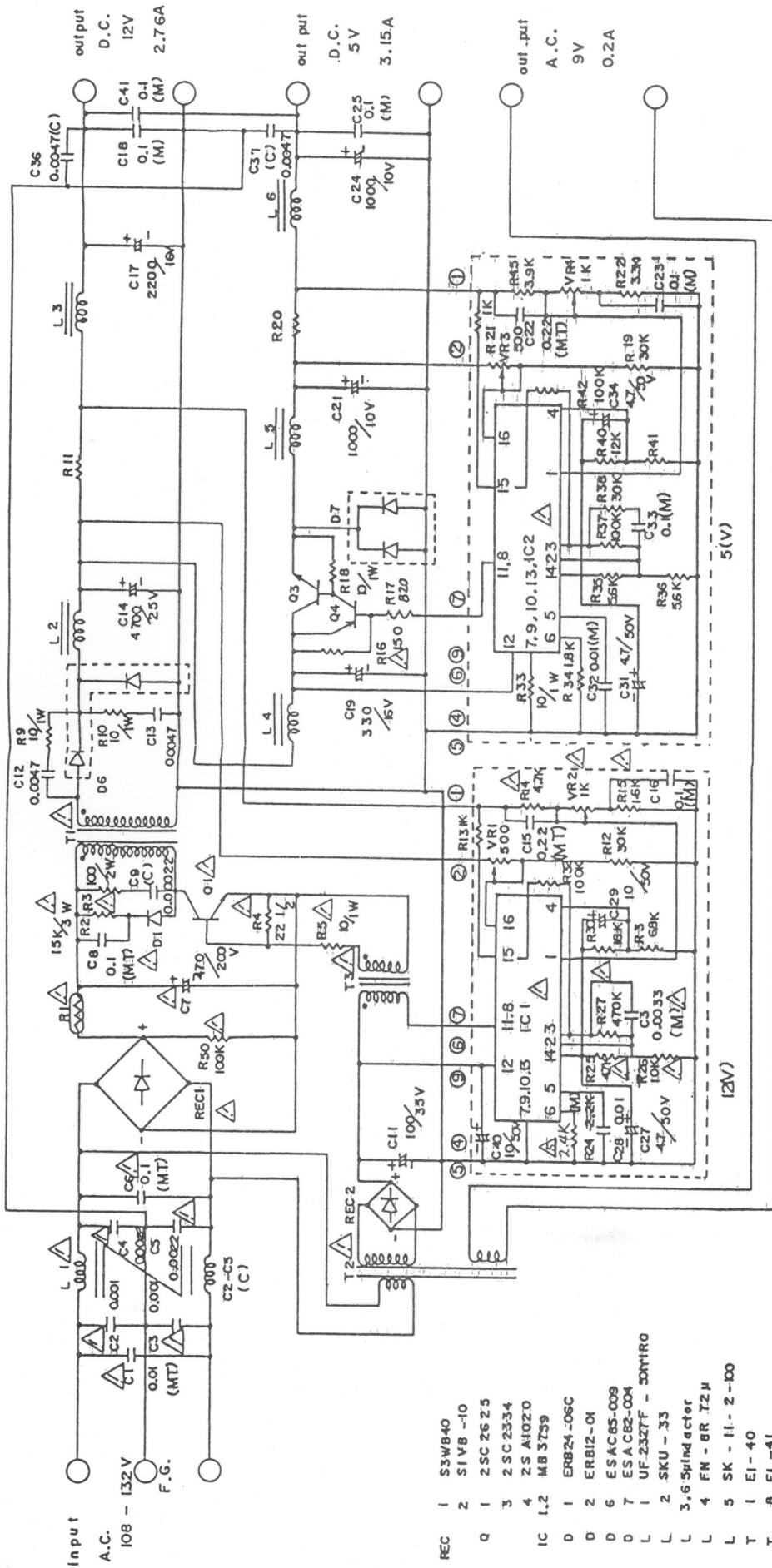


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TROUBLESHOOTING GUIDE

TROUBLE	CHECK POINT	CAUSES AND TEST	SOLUTION
NO OUTPUT	SOME SCRAP INSIDS	SHORT CIRCUIT BIY SCRAP <u>YES</u>	CLEANING
NO AC 9V OUTPUT	SUPPLEMENTARY CIRCUIT	T2 TRANSFORMER SHORT OR OPEN <u>YES</u> T2 PRIMARY LEAD WHITE TO WHITE 160~200Ω SECONDARY LEAD RED TO RED 9~12Ω SECONDARY LEAD BLUE TO BLUE 3.2~3.7Ω	CHANGE T2
IN CASE OF REC1 SHORT FUSE IS CUT	CHECK BRIDGH DIODE	REC2 S1VB-10 DIODE RECTIFIED VOLTAGE DC 12~15V REC1 S3WB40 SHORT OR OPEN <u>YES</u>	CHANGE REC1
			
IN CASE OF Q1 SHORT FUSE IS CUT	CHECK SWITCHING TRANSISTOR	Q1 2SC2625 SHORT OR OPEN <u>YES</u>	CHANGE Q1
			
	CHECK HIGH-SPEED RECTIFY DIODE	D6 ESAC85-009 SHORT OR OPEN <u>YES</u>	CHANGE D6
			
12V CONTROL CIRCUIT		CHECK BETWEEN COLLECTOR AND EMITTER OF 2SC2625 IN Q1 BY SYNCHRO-SCOPE <u>NO</u>	CHANGE A BOARD OF 12V CONTROL
			
		12V OUTPUT ADJUSTMENT SHIFT <u>YES</u>	RE-ALIGNMENT
5V output ONLY NO OUTPUT	CHECK SWITCHING TRANSISTOR	Q3 2SC2334 SHORT OR OPEN <u>YES</u>	CHANGE Q3
			
	CHECK DRIVE TRANSISTOR	Q4 2SA1020-0orY SHORT OR OPEN <u>YES</u>	CHANGE Q4
			
	CHECK HIGH-SPEED RECTIFY DIODE	D7 ESAC82-004 SHORT OR OPEN <u>YES</u>	CHANGE D7
			
5V CONTROL CIRCUIT		CHEC BETWEEN EMITTER OF 2SC2334 AND GRUND IN Q4 BY SYNCHRO-SOOPE <u>NO</u>	CHANGE A BOARD OF 5V CONTROL
			
		5V OUTPUT ADJUSTMENT SHIFT <u>YES</u>	RE-ALIGNMENT

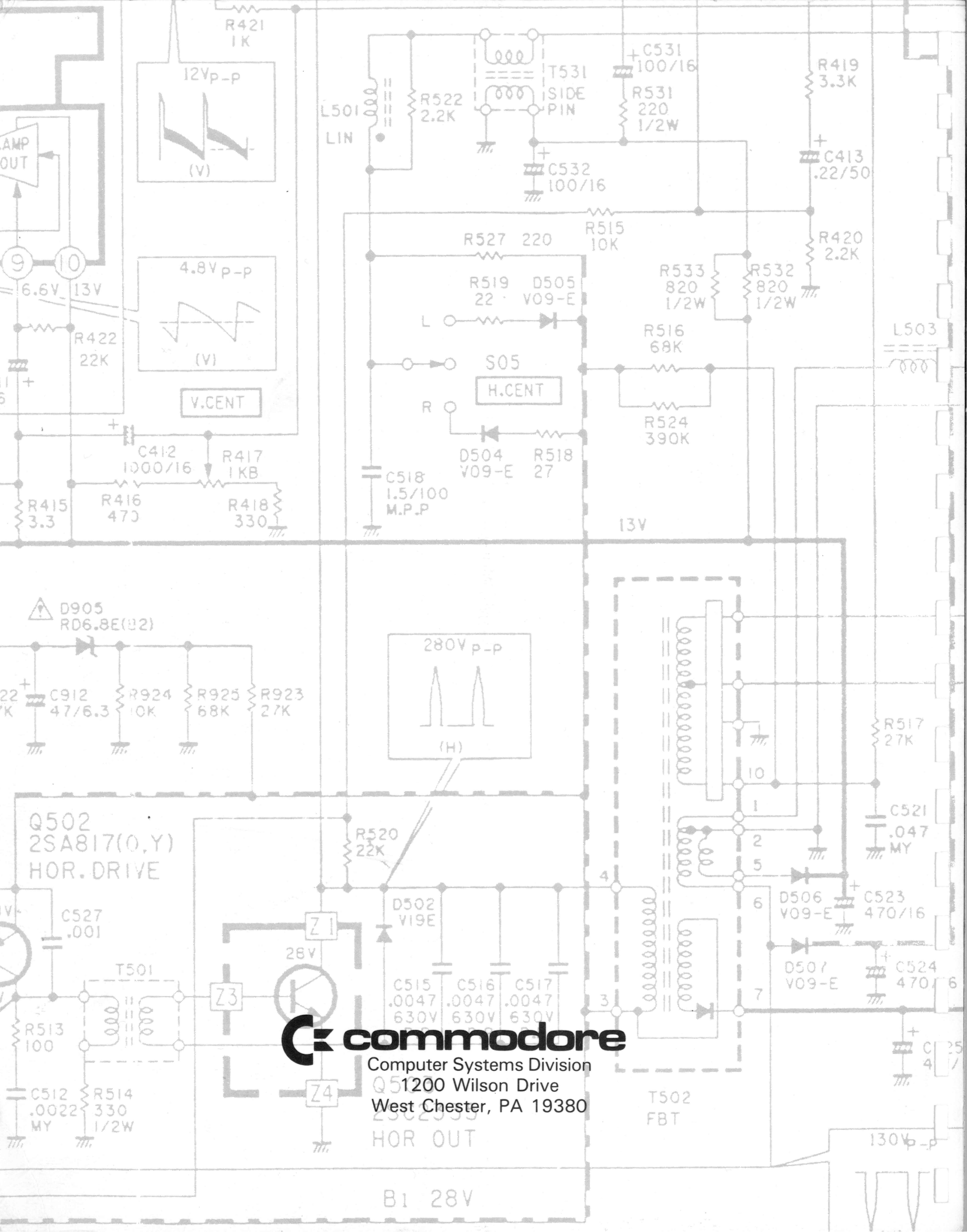
POWER SUPPLY #250623 SCHEMATIC DIAGRAM



- REC 1 S3W840
- 2 51V8 -10
- Q 1 25C 26 25
- 3 25C 23 34
- 4 2S A102D
- IC 1,2 MB 3739
- D 1 ERB24 -08C
- D 2 ERB12 -01
- D 6 ESAC 65 -009
- D 7 ESAC 62 -004
- L 1 UF 2327F - 30M190
- L 2 SKU - 33
- L 3,6 Spind actor
- L 4 FN - 6R 72 H
- L 5 SK - 11 - 2 - 100
- T 1 EI - 40
- T 8 EI - 41
- T 3 EI - 22
- R 1 80 - 13
- R 11, 20manganin resistor

CAPACITOR
(M) POLYESTER FILM CAPACITOR
(MT) METALLIZED POLYESTER FILM CAPACITOR
(C) CERAMIC CAPACITOR

NOTE
ALL CAPACITANCE ARE IN MICROFARADS
ALL RESISTANCE VALUES ARE IN OHMS 1/4W,
UNLESS OTHERWISE SPECIFIED IN THE DIAGRAM.
▲ CRITICAL COMPONENT



commodore

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B1 28V

130Vp-p