PART NUMBER	DESCRIPTION
313365-01	PCB ASSEMBLY, C65, NTSC
313365-02	PCB ASSEMBLY, C65, B PAL
313365-03	PCB ASSEMBLY, C65, I PAL
313365-04	PCB ASSEMBLY, C65, G PAL

REVISIONS

ZN	LTR	DESCRIPTION	DATE	APPROVED
	1	ADVANCE ENGINEERING RELEASE	10/12/89	
	A	PILOT PRODUCTION RELEASE REV. 2B	1/31/91	

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Commodore	TITLE: PCB ASSEMBLY, C65	Drawn by A. HETZEL	Drawing # 313365
			Sheet 1 of 4

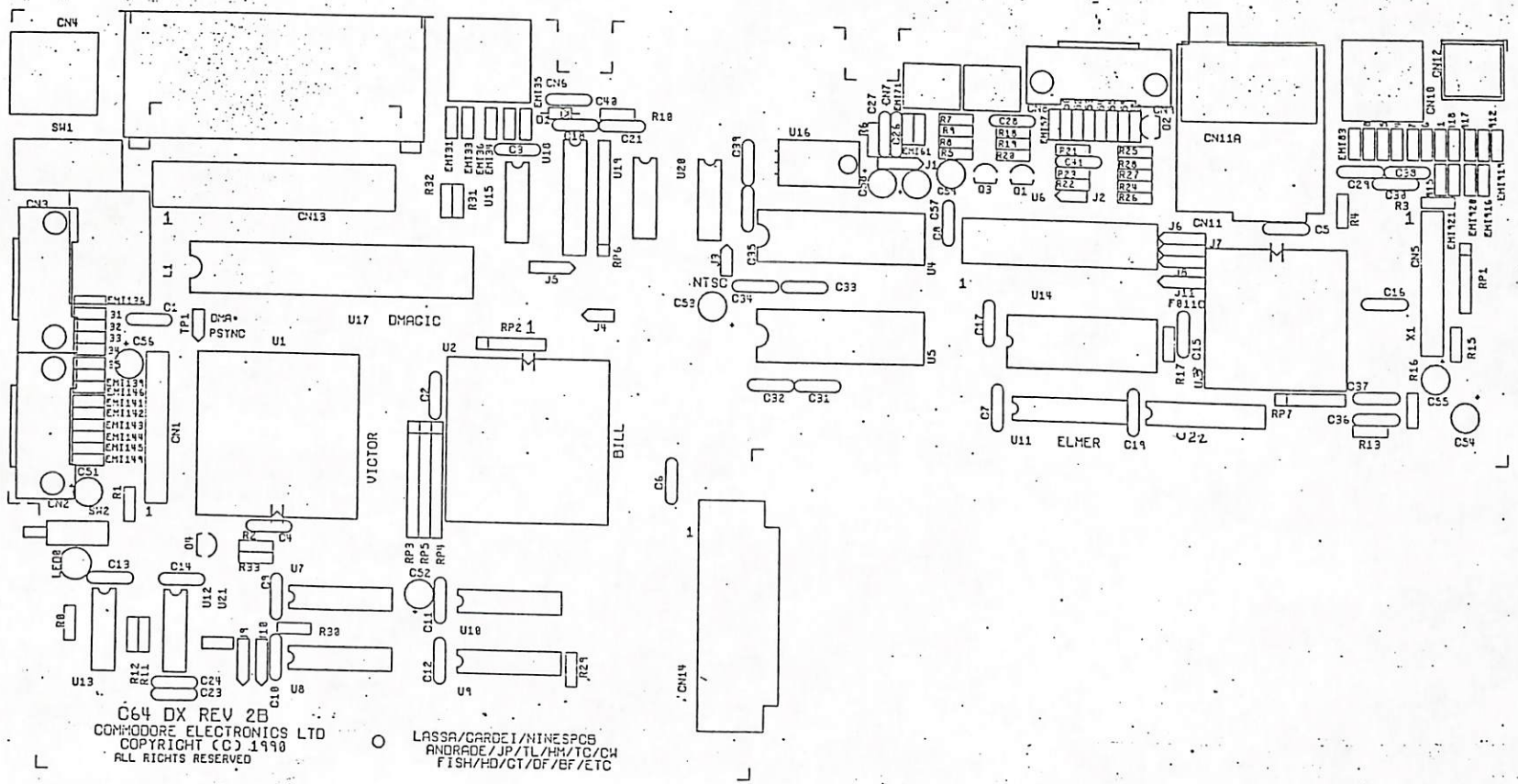
QTY. REQ. PER DASH #										ITM	PART NO.	DESCRIPTION	REF DES / NOTES
10	09	08	07	06	05	04	03	02	01	#			
						R	R	R	R	1	313366-01	SCHEMATIC	
						1	1	1	1	2	313368-01	ARTWORK	
						R	R	R	R	3	313367-01	PCB FABRICATION	
										4			
						1	1	1	1	5	390996-01	IC, 27C1001-12, 128K X 8 BIT ROM, 120ns	U6 PROGRAMMED INTO 390488-01
						2	2	2	2	6	901502-01	IC, 4066, KEYBOARD CONTROL	U12, U13
						4	4	4	4	7	390083-01	IC, 4464-10, 64k x 4 BIT DRAM, 100ns	U7-U10
						1	1	1	1	8	901521-20	IC, 74LS125	U15
						1	1	1	1	9	390551-01	IC, 7809, 9V REGULATOR	U16
						1	1	1	1	10	390579-01	IC, 74ALS244	U18
						1	1	1	1	11	390490-01	IC, C4510, CPU R4	U1
						-	-	-	1	12	390489-01	IC, 4567, VIC3R5, NTSC	U2
						1	1	1	-	13	390489-02	IC, 4567, VIC3R5, PAL	U2
						2	2	2	2	12	318013-01	IC, 8580, SID	U4, U5
						1	1	1	1	15	390548-01	IC, PAL 16L8B, ELMER1	U11 PROGRAMMED INTO 390071-02
						1	1	1	1	16	251637-01	IC, 2016, 2k x 8 BIT SRAM, 150ns, DISK BUFF	U14
						1	1	1	1	17	390957-01	IC, DMAGIC, GA 4151F018	U17
						1	1	1	1	18	390491-01	IC, FDC, GA 4165F011	U3
						1	1	1	1	19	390487-01	SIL DELAY LINE, 4 PIN, 15ns	U21
						1	1	1	1	20	390989-01	IC, PAL, 16L8B, IGOR1	U22 PROGRAMMED INTO 390071-02
										21			
						-	-	-	1	22	325566-14	OSCILLATOR, 28.6363 MHz NTSC	U19 SYSTEM CLOCK
						1	1	1	-	23	252344-01	OSCILLATOR, 28.375 MHz PAL	U19 SYSTEM CLOCK
						1	1	1	-	24	325566-34	OSCILLATOR, 17.7344 MHz PAL	U20 COLORBURST
										25			
						1	1	1	1	26	902441-22	1kOHM, 5 X 6	RP1
						1	1	1	1	27	902441-29	3.3kOHM, 5 X 6	RP2
						4	4	4	4	28	390227-05	68 OHM, 5 X 10	RP3-RP6
						1	1	1	1	29	902441-17	470 OHM, 5 X 6	RP7
										30			
						3	3	3	3	31	901550-49	100 OHM, 1/4W, 5%, CARBON FILM RESISTOR	R1, R2, R10
						3	3	3	3	32	901550-07	100k OHM, 1/4W, 5%, CARBON FILM RESISTOR	R3. R4, R13
						1	1	1	1	33	901550-20	10k OHM, 1/4W, 5%, CARBON FILM RESISTOR	R5
						8	8	8	8	34	901550-01	1k OHM, 1/4W, 5%, CARBON FILM RESISTOR	R6, R7, R23-R25, R30-R33
						2	2	2	2	35	901550-12	22K OHM, 1/4W, 5%, CARBON FILM RESISTO	R8, R9
						2	2	2	2	36	901550-22	47k OHM, 1/4W, 5%, CARBON FILM RESISTOR	R11, R12
						3	3	3	3	37	901550-58	470 OHM, 1/4W, 5%, CARBON FILM RESISTOR	R15, R17
						1	1	1	1	38	901550-53	2k OHM, 1/4W, 5%, CARBON FILM RESISTOR	R18
						1	1	1	1	39	901550-23	2.7K OHM,1/4W, 5%,CARBON FILM RESISTOR	R19
						1	1	1	1	40	901550-18	2.2k OHM, 1/4W, 5%, CARBON FILM RESISTOR	R20-R22
						3	3	3	3	41	901550-45	75 OHM, 1/4W, 5%, CARBON FILM RESISTOR	R26
						1	1	1	1	42	901550-134	130 OHM, 1/4W, 5%, CARBON FILM RESISTOR	R27
						1	1	1	1	43	901550-14	330 OHM, 1/4W, 5%, CARBON FILM RESISTOR	R28
						2	2	2	2	44	901550-94	68 OHM, 1/4W, 5%, CARBON FILM RESISTOR	R29, R30
										45			
						4	4	4	4	46	902693-01	2SC1815 TRANSISTOR	Q1-Q4
										47			
						1	1	1	1	48	390017-01	1N914 DIODE	D1
										49			
						1	1	1	1	50	900556-01	CRYSTAL, 8 MHz	X1

Commodore	Title: PCB ASSEMBLY, C65	Drawn by: A. HETZEL	Drawing # 313365 / REV A
			Sheet 2 of 4

QTY. REQ. PER DASH#										ITM	PART NO.	DESCRIPTION	REF DES / NOTES
10	09	08	07	06	05	04	03	02	01	#			
						20	20	20	20	51	390082-01	.1uf, AXIAL, CAPACITOR	C1-C6, C11-C19, C28-C30, C35, C40
						5	5	5	5	52	900461-34	.33uf, AXIAL, CAPACITOR	C7-C10, C39
						1	1	1	1	53	900462-37	100pf, AXIAL, CAPACITOR	C38
						2	2	2	2	54	251078-45	1800pf, AXIAL, CAPACITOR	C23, C24
						2	2	2	2	55	900014-02	1000pf, AXIAL, CAPACITOR	C26, C27
						4	4	4	4	56	900014-05	470pf, AXIAL, CAPACITOR	C31-C34
						1	1	1	1	57	900462-29	47pf, AXIAL, CAPACITOR	C36
						1	1	1	1	58	900463-08	220pf, AXIAL, CAPACITOR	C37
						1	1	1	1	59	390082-02	.01uf, AXIAL, CAPACITOR	C41
										60			
						1	1	1	1	61	390101-02	100uf, RADIAL, ELECTROLYTIC CAPACITOR	C51
						3	3	3	3	62	390101-01	47uf, RADIAL, ELECTROLYTIC CAPACITOR,	C52-C54
						2	2	2	2	63	251894-38	47uf, RADIAL, ELECTROLYTIC CAPACITOR,	C55, C56
						3	3	3	3	64	390101-06	10uf, RADIAL, ELECTROLYTIC CAPACITOR,	C57-C59
										65			
						1	1	1	1	66	251878-02	LINE FILTER, 8 PIN	L1
										67			
						1	1	1	1	68	252182-01	SW2P2T, POWER ROCKER	SW1
						1	1	1	1	69	25/260-01	SW1SHOT, RESET PUSHBUTTON	SW2
										70			
						44	44	44	44	71	251842-02	EMI FILTER, 3 PIN	EMI31,EMI33-EMI36,EMI52-EMI59,EMI61,EMI71,EMI81,EMI83-EMI88,
										72			EMI139,EMI144-EMI146,EMI149,EMI915-EMI922,EMI131-EMI136
										73			
						1	1	1	1	74	390492-01	CONN25ZIF, KEYBOARD	CN1
						2	2	2	2	75	390242-01	CONN., D-SUB, 9 PIN MALE, JOYSTICK PORTS	CN2, CN3 RT ANGLE
						1	1	1	1	76	359004-01	CONN4DIN, SYSTEM POWER	CN4
						1	1	1	1	77	390534-01	CONN24FFC, TOP ENTRY, INTERNAL FLOPPY	CN5
						1	1	1	1	78	252166-01	CONN6DIN, SERIAL BUS	CN6 RT ANGLE, SH
						1	1	1	1	79	252122-01	RCA JACK, AUDIO, LEFT, WHITE	CN7
						1	1	1	1	80	252122-02	RCA JACK, AUDIO, RIGHT, RED	CN8
						1	1	1	1	81	390241-02	CONN., D-SUB, 9 PIN FEMALE, RGB VIDEO	CN9 RT ANGLE
						1	1	1	1	82	252168-01	CONN8DIN, COMPOSITE VIDEO	CN10 RT ANGLE, SH
						-	-	-	1	83	313371-01	MODULATOR, NTSC, RF VIDEO	CN11 UL (US/CN)
						-	-	1	-	84	313371-02	MODULATOR, B PAL	CN11 VDE (GR)
						-	1	-	-	85	313371-03	MODULATOR, I PAL	CN11 BSI (UK)
						1	-	-	-	86	313371-04	MODULATOR, G PAL	CN11 SAA, (AL, SCAND.)
						1	1	1	1	87	390218-03	CONN8bMINIDIN, EXTERNAL FLOPPY	CN12
						1	1	1	1	88	251630-01	CONN50CARD, CARTRIDGE/EXPANSION	CN13
						1	1	1	1	89	390502-01	CONNKEL60P, RAM EXPANSION, MALE	CN14
										90			
						2	2	2	2	91	390185-01	SOCKET, 84 PIN PLCC, (VIC3, CPU)	FOR U1, U2
						1	1	1	1	92	390185-02	SOCKET, 68 PIN PLCC, (FDC)	FOR U3
						1	1	1	1	93	25/313-01	SOCKET, 48 PIN DIP, (DMAGIC)	FOR U17
						1	1	1	1	94	904150-05	SOCKET, 28 PIN DIP, L/P, (SIDS)	FOR U4, U5
						2	2	2	2	95	904150-08	SOCKET, 20 PIN DIP, .300 (ELMER, IGOR)	FOR U11, U22
						3	3	3	3	96	904150-01	SOCKET, 14 PIN DIP, .300 (OSC)	FOR U15, U19, U20
						1	1	1	1	97	904150-12	SOCKET, 32 PIN DIP, (ROM)	FOR U6
										98			
						7	7	7	7	99	903326-03	JUMPER, SIL HEADER, .100, 1 x 3	J1: MONO AUDIO IN, J6-J11: CONFIGURATION
						2	2	2	2	100	903326-02	JUMPER, SIL HEADER, .100, 1 x 2	J2: OLD PAL, J3: NTSC

Commodore	Title PCB ASSEMBLY, C65	Drawn by A. HETZEL	Drawing # 313365 Sheet 3 of 4
			REV A

REVISIONS				
LTR	ZONE	DESCRIPTION	DATE	APPROVED
		SEE SHEET 1		



COMMODORE WCHEST
C64 DX
(1-8-91) REV 2B
SILKSCREEN

commodore

TITLE: C65 PCB ASSY.

DRAWN BY:	DATE	ENGR:	SIZE	DRAWING NUMBER
APH	1/14/91	APPR:	B	313365
CHKD:			SHEET 4	OF 4