

ISSUE 11, 1985 : DISK DRIVE 3



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MODEL : 1541 "B"

A NEW VERSION OF 1541 DISK DRIVE HAS BEEN RELEASED AND TERMED THE 1541 B. THE 1541 B USES A NEW PCB AND DRIVE ASSEMBLY. A SUPPLEMENT TO THE 1540/1541 SERVICE MANUAL IS ATTACHED. PLEASE INSTALL THESE PAGES IN YOUR MANUAL.

The 1541 B remains operationally the same as the 1541. However, structurally the assemblies used to build the unit are different from the previous models. The assembly parts are NOT INTERCHANGEABLE.

1541 B ASSEMBLY PARTS

PCB ASSY	250448-01
NEWTRONICS DRIVE ASSY	251643-03
POWER SUPPLY ASSY	251868-01

The casework and accessory parts remain the same as the 1541.

# PARTS LIST

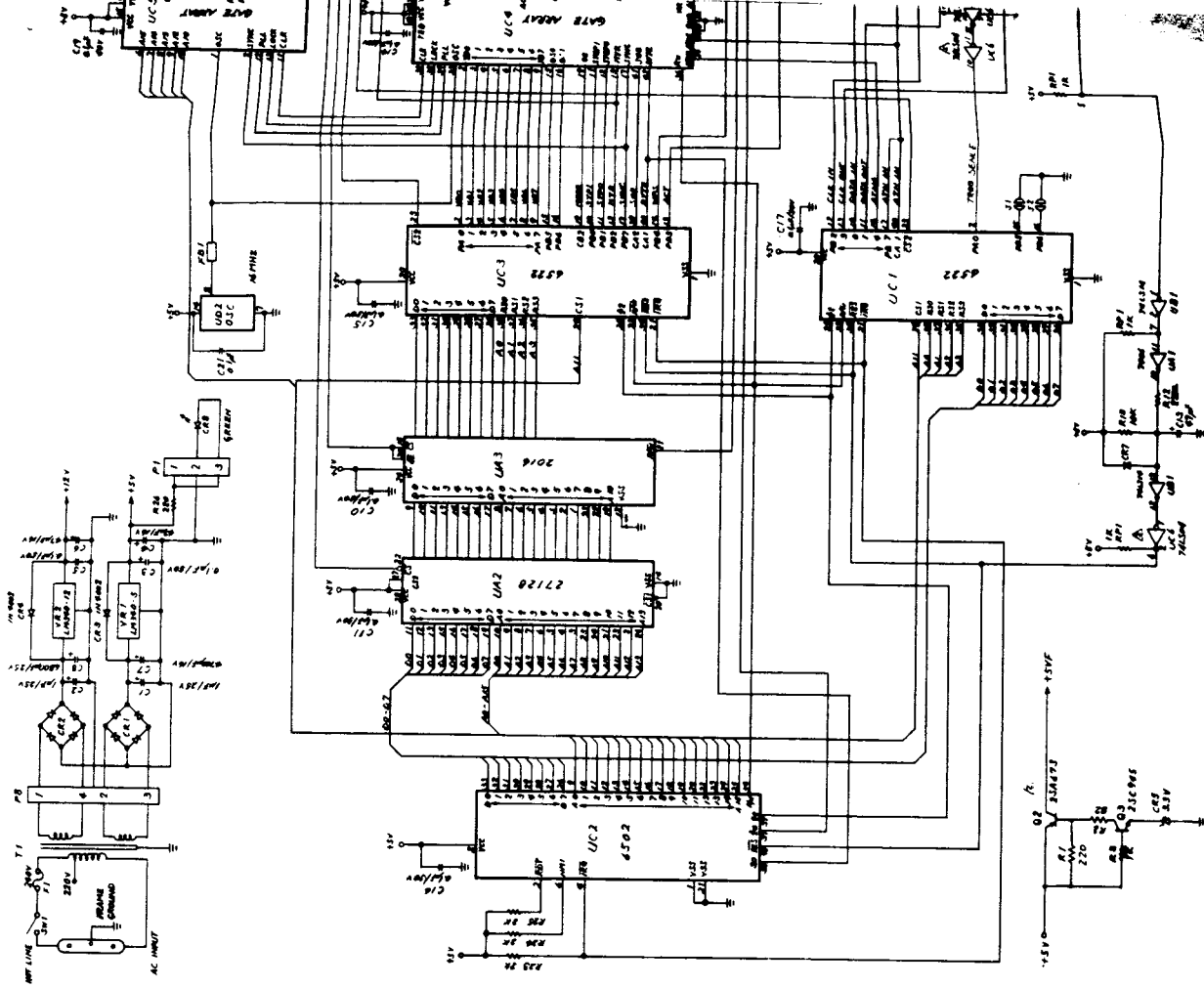
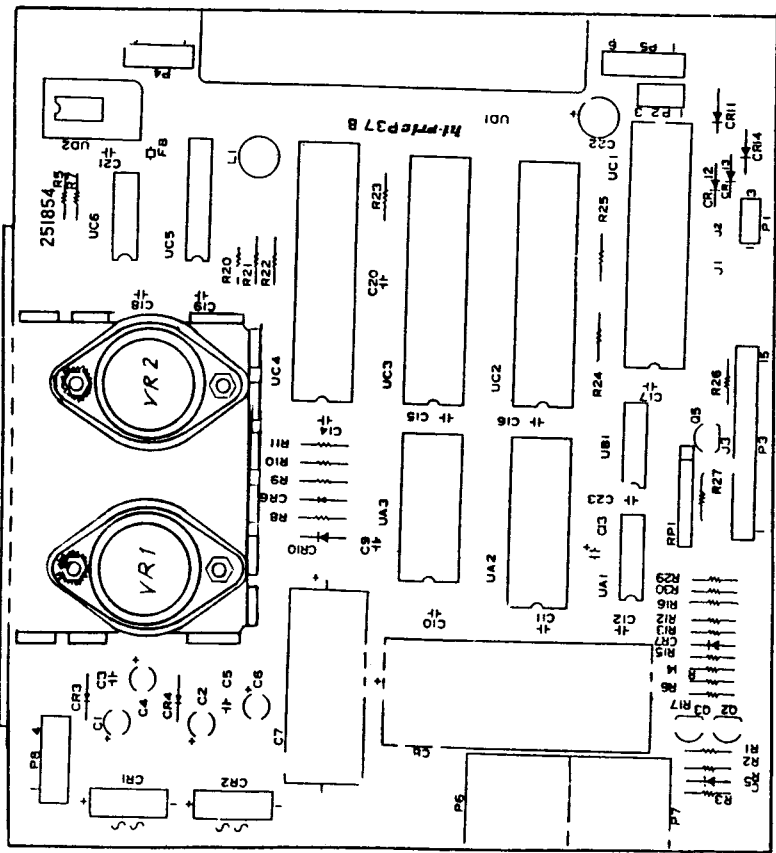
## PCB ASSEMBLY #250448

**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. Approved cross-references for TTL chips, Transistors, etc. are available in manual form through the Service Department, order part #314000-01. Unique or non-standard parts will be stocked by Commodore and are indicated on the parts list by a "C". Vendor Name and part number have been provided for your convenience in ordering custom or unique parts.

INTEGRATED CIRCUITS		RESISTORS (Continued)	
UA1	7406	R20,21	2.7K
UA2	27128 EPROM C 251968-01	R22	150K
UA3	TMM2016P RAM C 325502-03	R23,24,25	2K
UB1	74LS14	R26	220
UC1	6522 VIA C 901437-01	R27	10K
UC2	6502 CPU C 901435-01	R29,30	3.6K†
UC3	6522 VIA C 901437-01	*Use with -02 R/W HYBRID only. † Replace with jumper wire for use with -01 R/W HYBRID.	
UC4	Gate Array 40 Pin C 251828-01 sub:		
	Gate Array 42 Pin 251828-02		
UC5	Gate Array 20 Pin C 251829-01		
UC6	74LS04		
UD1	R/W HYBRID C 251853-01* sub:		
	R/W HYBRID C 251853-02*		
*NOTE: Diode and resistor variations required when using the -01 or -02 R/W HYBRID are noted throughout the parts list.		CAPACITORS	
		C1,2	Electrolytic 1μF, 25V
		C3	Ceramic .1μF, 50V
		C4	Electrolytic 47μF, 16V
		C5	Ceramic .1μF, 50V
		C6	Electrolytic 47μF, 16V
		C7	Electrolytic 4700μF, 16V
		C8	Electrolytic 6800μF, 25V
		C9-12	Ceramic .1μF, 50V
		C13	Electrolytic 47μF, 16V
		C14-19	Ceramic .1μF, 50V
		C20	Ceramic 1000pF 50V
		C21	Ceramic .1μF, 50V
		C22	Electrolytic 47μF, 16V
		C23	Ceramic .1μF, 50V
TRANSISTORS		MISCELLANEOUS	
Q2	2SA673 PNP	L1	Coil Inductor 22μH
Q3,5	2SC945 NPN	FB1	Ferrite Bead
		VR1	Voltage Reg 5V 1.2A (LM340K-5 to -3) Sub: 5V 3A (LM323)
DIODES		VR2	Voltage Reg 12V 1.5A (LM340K-12 to -3)
CR1,2	Bridge, 1.5A, 50V (KBP-005)	UD2	Crystal Module 16 MHz C 325566-01
CR3,4	Rectifier, IN4002	RP1	Resistor Pack 1K, 8 Pin
CR5	Zener, 3.3V, 500mW, +/-5% HZ4A-1		
CR6,7,9	Signal, 1N4148		
CR11-14*	Rectifier, IN4002		
*Use with -02 R/W HYBRID only		CONNECTORS	
RESISTORS — All are carbon 1/4 watt, 5% unless noted otherwise.		P1,2	Header Assy, 2.5 Pitch, 3 Pin (Molex 3022-03A)
R1	220	P3	Header Assy, 2.5 Pitch, 15 Pin (Molex 3022-15A)
R2	82K	P4	Header Assy, 2.5 Pitch, 4 Pin (Molex 5048-04AG)
R3	1K	P5	Header Assy, 2.5 Pitch, 6 Pin (Molex 3022-06A)
R5	1.2K*	P6,7	6 Pin Din, C 903361-01
R6	47K	P8	Header Assy, 3.96 Pitch, 4 Pin (Molex 5271-04A)
R7	1.2K*		
R8	47K		
R9	150K		
R10,11	1.5K		
R12	220		
R13	10K		
R14,15	150		
R16	47K		
R17	150		

# PCB ASSEMBLY #250448 BOARD LAYOUT



EX B1 DR  
Re B1 per CI

SCHEMATIC 1541B

