1581 Enhanced Bill of Materials

LABEL	VALUE	CODE	Description	Quantity	Mouser Part Number	Mouser Link	
C1 - C14	100nf		4 Ceramic Capacitor	14	594-K104M15X7RF53H5	https://www.mouser.ca/ProductDetailV/ishay-BC-Components/K104M15X7RF53H5?qs=sGAEpiMZZMukHu%252BjC5I7YRhxlXvXZbr8qrLCNC3sFmk%3D	
C15	10nf	Code 10	3 Ceramic Capacitor	1	594-K103K20X7RL5TH5	https://www.mouser.ca/ProductDetail/Vishay-BC-Components/K103K20X7RL5TH5?qs=u48theeAsGdoToV7MqpG2Q%3D%3D	
C18, C22	10uf Electrolytic		Electrolytic Polarized Capacitor	2	647-UKL1E100KDDANA	https://www.mouser.ca/ProductDetail/Nichicon/UKL1E100KDDANA?qs=Gqb2QVoSPkfQU4zKa3s%252BOw%3D%3D	
C20	47uf Electrolytic		Electrolytic Polarized Capacitor	1	647-UFW1E470MDD	https://www.mouser.ca/ProductDetail/Nichicon/UFW1E470MDD?qs=kArNe9LFxXl8%252BYlKlcgTBA%3D%3D	
					75-515D476M025JA6AE3	https://www.mouser.ca/ProductDetailVishay/515D476M025JA6AE3?qs=HDhZcL5REibdxFcglOjO0g%3D%3D	
CN1			Mala Dia Handar			http://www.housenfunccorr.to.to.to.	
			Male Pin Header	1		https://www.ebay.com/itm/282074243111	
CN2 CN3, CN4	6 pin DIN		2x17 (34 pin) Male Pin Header IEC Serial Port Connectors	1		https://www.ebay.com/itm/322339082405 https://www.ebay.com/itm/174285381609?hash=item289437dfe9;g:YmwAAOSwMetddylh	
CN6, CN4	4 pin DIN		1541-II Style Power Connector	2		https://www.ebay.com/tim/254570070244?hash=item3b458I00e4;g;:HINAAOSw-iteMQyoi	
J1. J3	4 pin bin		1x2 male pin header	3		https://www.ebay.com/ntm/25457.0070244-frast=item50456i0044-g.xnixAO5w-undoyor	
31,33			1X2 male piirneader	2			
CR4	1N4148		Diode	1	512-1N4148	https://www.mouser.ca/ProductDetail/onsemi-Fairchild/1N4148?qs=sGAEpiMZZMueQxo7L%2FBPyGk1oWHQqz4M	
EMI1,2,3,4	270pf EMI Filter			4	81-DSS1NB32A271Q91A	https://www.mouser.ca/ProductDetail/Murata-Electronics/DSS1NB32A271Q91A?qs=sGAEpiMZZMvjAcTDbo5QTjgMBdAP3Z%2F6w%2Fn48rkkQxA%3D	
FB1,2,3,4,5,6			Ferrite Beads	6	205-FT-3AMB4ARLY-PF	You can scavenge ferrite beads from virtually any dead Commodore device board.	
						https://www.ebay.com/itm/173835843423	
R1, R3, R9, R10, R11	47 ohm			5	660-MF1/4DCT52R47R0F	https://www.mouser.ca/ProductDetail/MCA-Speer/MF1-4DCT52R47R0F?qs=sGAEpiMZZMsPqMdJzcrNwuBnmYaxxx0HyN48aPYoMj8%3D	
R2, R4, R13, R14	1K			4	660-MF1/4DCT52A1001F	https://www.mouser.ca/ProductDetail/KOA-Speer/MF1-4DCT52A1001F?qs=sGAEpilMZZMsPqMdJzcrNwrhyl%252BtH98Oxf%2FRxoMeuUIY%3D	
R5	2.7K			!	660-MF1/4DCT52R2701F	https://www.mouser.ca/ProductDetail/KOA-Speer/MF1-4DCT52R2701F?qs=sGAEpiMZZMsPqMdJzcrNwuBnmYaxxx0HoBPk1fQJRUM%3D	
R12	620 ohm			!	660-MF1/4DCT52R6200F	https://www.mouser.ca/ProductDetail/KOA-Speer/MF1-4DCT52R6200F?qs=sGAEpiMZZMsPqMdJzcrNwuBnmYaxxx0HBD09wz94zwk%3D	
R29	10K			1	660-MF1/4DCT52A1002F	https://www.mouser.ca/ProductDetail/KOA-Speer/MF1-4DCT52A1002F?qs=sGAEpiMZZMsPqMdJzcrNwuecx6ismrwYT8hyjLeWtY%3D https://www.mouser.ca/ProductDetail/KOA-Speer/MF1-4CCT52R1002F?qs=sGAEpiMZZMsPqMdJzcrNwk4M%252Bl850EMFubiOl68aCmP%3D	
RP1, RP3	7x1K		Resistor Network		660-MF1/4CCT52R1002F 652-4608H-1LF-1K	https://www.mouser.cai/ProductDetailRoums/Robel+101-102LF70ss-kHHwwp040etDhDulr/Robel-3DhJulr/Robel-3DhJulr/Robel-101-102LF70ss-kHHwwp040etDhDulr/Robel-101-102LF70ss-kHHwwp040etDhDulr/Robel-101-102LF70ss-kHHwwp040etDhDulr/Robel-101-102LF70ss-kHHwwp040etDhUlr/Robel-101-102LF70ss-kHHwwp040etDhDulr/Robel-101-102LF70ss-kHhwwp040etDhDulr/Robel-101-102LF70ss-kHhwwp040etDhDulr/Robel-101-102LF70ss-kHhwwp040etDhDulr/Robel-101-102LF70ss-kHwwp040etDhDulr/Robel-101-102LF70ss-kHhwwp040etDhDulr/Robel-101-102LF70ss-kHw	
RP1, RP3	/XIK		Resistor Network Resistor Network (alternate part)	2	652-4608H-1LF-1K	https://www.mouser.cai/ProductDetail/Bourns/4608X-101-102LF-7qs=KHHINWW04QetCinLo TulirA%3DW3DH https://www.mouser.cai/ProductDetail/Bourns/4608X-101-102LF7qs=KHHINWW04QetCinLo TulirA%3DW3D	
RP2	7x2.2K		Resistor Network	1	652-4608X-1LF-2.2K	https://www.mouser.ca/ProductDetail/Bourns/4608X-101-222LF7qs=%252BX874FJM1fzp5PC2K2gpm4%3D%3D	
14 2	TALLETS		TOSISIO PECHOIN		ODE TOOGK TET ELEK	TARPEN MATERIAL TO A DECEMBER AND A TOTAL ELECTRICATION OF THE STATE O	
SW1	DIP Switch, 2 position	n	Device selector switch	1	490-DS02-254-1L-02BE	https://www.mouser.ca/ProductDetail/CUI-Devices/DS02-254-1L-02BE?qs=wnTfsH77Xs7tEZE7xwk3yg%3D%3D	
SW2	Power Switch		Salecom R8017L-R21-2			https://www.ebay.com/itm/402027981537	
			Salecom R8011L-R11-2-Q			https://www.jameco.com/webapp/wcs/stores/servlet/ProductDispl	
						ay?langld=-	
						1&storeId=10001&catalogId=10001&oroductId=2267143 (this switch is tal	ler than the factory switch but cheaper and still works fine
U1	6502A		JP1 Closed, JP3 Open	1		Old Stock	
	R65C02		JP1 Closed, JP3 Open	n/a		???	
	W65C02		JP1 Opened, JP3 Closed	n/a	955-W65C02S6TPG-14	https://www.mouser.ca/ProductDetailWestern-Design-Center-WDC/W65C02S6TPG-14?qs=sGAEpiMZZMskC5GqilGuvqFi6wlhR0huA5ZdF21Z2WA%3D	
U2	27C256		When using SINGLE kernal	n/a		Standard EPROM	
	27C512		When using DUAL kernal	1		Standard EPROM	
U3	AS6C62256-55PCN	1	JP2 closed	1	913-AS6C62256-55PCN	https://www.mouser.ca/ProductDetail/913-AS6C62256-55PCN	
	D4364C		JP2 open	n/a		Old Stock	
U4	WD1770			1		https://www.ebay.com/itm/391994520438?hash=item5b44b1b376:g:ANQAAOSwdJJanmCM	
	WD/VL1772			n/a		???	
U5	MOS8520			1		Old Stock	
U6	74LS139			1	595-SN74LS139AN	https://www.mouser.ca/ProductDetail/Texas-Instruments/SN74LS139AN?qs=3pnr37ZAbK%2FhW2T3DHZDAw%3D%3D	
U7	74LS00			1	595-SN74LS00N	https://www.mouser.ca/ProductDetail/Texas-Instruments/SN74LS00N?qs=spW5eSrOWB6G5wECF%252BEZFA%3D%3D	
U8, U12	7406			2	595-SN7406N	https://www.mouser.ca/ProductDetail/Texas-Instruments/SN7406N?qs=ZA235jQDfbpLQYL%2FidpLLA%3D%3D https://www.ebay.com/itm/173670842672?hash=item286f96c130;q:rFsAAOSwT-FZCaGb	
U9	74LS14			1	595-SN74LS14N	https://www.mouser.ca/ProductDetail/Texas-instruments/SN74LS14NPos=kkeGoCHI3RD2VDMvmKLo%3D%3D	
00	1-1201-1			'	000 011 -1201414	https://www.ebay.com/tm/2936877756267hash=item446127d18a;q;SFqAAOSwVdZcq-0	
U10	74LS93			1	595-SN74LS93N	https://www.mouser.ca/ProductDetail/Texas-Instruments/St74LS93N/2qs=NLW4N)XEBS620IMduXBjw%3D%3D	
U11	7407			1	595-SN7407N	https://www.mouser.ca/ProductDetail/Texas-Instruments/SN7407N7qs=sGAEpiMZZMv0NvthtfBi6R2CPM2cSOQ	
U13	74LS241			i	595-SN74LS241N	https://www.mouser.car/ProductDetail/Texas-instruments/SN74LS241N?qs=dJ5HNKWh30V60/2H0B4G[gx30y63D	
Y1	16MHz		Oscillator	1	815-ACO-16-EK	https://www.mouser.ca/ProductDetail/ABRACON/ACO-16000MHZ-EK?qs=m%252BUhWDcpCfY2wJM58Dr9yw%3D%3D	
JP1 Closed, JP3 Open	6502A or R65C02						

JP1 Opened, JP3 Closed W65C02

AS6C62256-55PCN D4363 JP2 Closed JP2 Opened

J1 Closed J1 Opened WD1770 WD1772

27C256/27256 27C512/27512

If you only want to use a single DOS ROM (leave J3 open)
Use if you want to switch between two DOS ROMs (close J3 to toggle to alternate DOS ROM)

J3

Apply 7.5-25VDC (polarity indicated on PCB) to power the 1581 in leu of a factory power connection. 2-3 of J2 must be jumpered to route power to drive PCB. Alternate Power

Alternate Power	BOM								
PR1	uA7805	UC8413 / Korea [fixed positive voltage regulator]	1	595-UA7805CKCT					
C23	1000 uF 16V	Electrolytic Capacitor	1	598-108TTA016M					
C24	4.7uF 50v	Electrolytic Capacitor	1	80-ESH475M050AC3KA					
J2	3pin straight header	male	1						
04									
Other optional Connection Points									
1581D PWR	1x2 pin header	male (for linking power to second 1581 board in 1581D)	1						
1581D SW2	1x3 pin header	male (for linking device selection swith of second 1581 board in 1581D)	1						
IEC	1x6 pin header	male (for linking IEC to second 1581 board in 1581D)	1						