

Time Manipulator - Bill of Materials

Reference	Description	Manufacturer/Mouser PN	Manufacturer
Units Resistors			
1 R2	5KΩ Res 1%, 1/4W	MFR-25FRF52-4K99	Yaego
1 R1	1MΩ Res 1%, 1/4W	MFR-25FRF52-1M	Yaego
26 R3, R4, R5, R6, R7, R8, R9, R10, R11,R12, R13, R14, R15, R16, R17,R18, R19, R20, R21, R22, R23, R25, R28, R29, R30, R31	4.7KΩ Res 1%, 1/4W	MFR-25FRF52-4K7	Yaego
2 R26, R27	470Ω Res 1%, 1/4W	MFR-25FRF52-470R	Yaego
2 RV1, RV2	10K linear pot 16mm	RV16AF-41-15R1-B10K-3	Yaego
Capacitors			
18 C2, C3, C4, C5, C6, C8, C9, C12, C17, C21, C22, C24, C27, C36, C37, C38, C39, C41	47uF	REA470M1CBK-0511P or 860010372004	Lelon
4 C7, C15, C23, C29	6.8nF	SR211C682MARTR1	AVX
15 C1, C10, C13, C16, C18, C19, C20, C25, C30, C31, C32, C33, C34, C35, C40	100nF	SR211C104KARTR1	AVX
4 C11, C14, C26, C28	3.3nF	SR215C332MARTR1- K332K15X7RF5TL2	AVX
Diodes			
1 D1	1N5817	511-1N5817	STMicroE
2 D2, D3	TLUV5300	TLUV5300	Vishay
Semiconductors			
2 Q1, Q2	2n5089	610-2N5089	Central
2 U1, U5	MCP6002	MCP6002	Microchip
2 U3, U6	PT2399	eBay-Amazon-Tayda-etc	Princetown
1 U2	LM7805	926-LM7805CT/NOPB	Ti
1 U4	CD4066	595-CD4066BE	Ti
1 U7	ATMEGA328P-PU	556-ATMEGA328P-PU	Atmel
SOCKETS			
Other			
1 ENC1 (Encoder)	Encoder with Switch	RE111F-41B3-25F-15P (Rapid)	Alpha
2 J2, J7	1/4 Stereo Jack	NMJ6HCD2	Neutrik
X J2, J4, J5, J6, J7, J9, J10, J8, J40	DNF Connectors	FSN-21A-10	
1 J12	SPDT Momentary Switch	SF12011F-0202-20R-M-027 (Rapid)	Alpha
1 SW5	3PDT Footswitch	107-SF17020F-32-21RL	Alpha
1 J1	2.1mm power Jack	163-4302-E	Various
1 Enclosure	Hammond 1590BBSLG	Any color from 1590BBS series	Hammond
1 Board to board connecor	FSN-21A-10	22AWG solid wire also possible	TE
1 Interconnection wire 25cm	22 AWG solid core wire		Various
3 Knobs	Davies 1510 model	1510AH	Davies
2 Led Holders	5mm LED Metal Holders	485-2176	Adafruit
1 Time Manipulator PCB	Printed Circuit Board	Time Manipulator	ElectroSmash
1 Sticker	Labels	Time Manipulator Sticker	ElectroSmash