

Traverser

Version 1 Parts List

Digi-Key catalogue numbers are provided for each part. Circuits4Tracks can supply individual parts where needed. Send an email to circuits@daxack.ca for information.

Part Number	Description	Digi-Key Number
B1	W06M bridge rectifier	W06M-BPMS-ND
C1, C2	1000 μ F, 25 volt electrolytic capacitor	P12379-ND
C3	100 μ F, 25 volt electrolytic capacitor	P12924-ND
C4, C5	100 nF, 10 volt or greater capacitor	399-4151-ND
C6, C7	1 μ F, 25 volt or greater capacitor	445-8517-ND
D1 - D3	1N4148 diode	1N4148TATB-ND
K1	DPDT relay, 5 volt/40 mA coil, 2 Form C	PB1121-ND
LED1 - LED2	3mm LED, green	350-1557-ND
LED3 - LED6	3mm LED, red	25-1182-ND
R1	1 to 1.5 ohm, 2 watt resistor	1.0ZTR-ND
R2	10k ohm, $\frac{1}{4}$ watt resistor	CF14JT10K0TR-ND
R3	1000 ohm, $\frac{1}{4}$ watt resistor	CF14JT1K00TR-ND
R4	330 ohm, $\frac{1}{4}$ watt resistor	CF14JT330RTR-ND
R5	2700 ohm, $\frac{1}{4}$ watt resistor	CF14JT2K70CT-ND
R6	10k ohm trim pot	262UR103B-ND
SIP1	1k ohm SIP resistors, 7RES 8SIP	4608X-1-102LF-ND
U1	PIC16F753P microcontroller	PIC16F753-I/P-ND
U2	LM358 Op Amp	LM358NFS-ND
VR1	78L05Z regulator	AS78L05ZTR-E1DICT-ND
VR2	LM317 regulator	LM317AHVT-ND
X1, X2	2-position screw terminals	A97996-ND
X3	6-pin header	ED7206-ND
X4, X5	2-pin header	ED7202-ND
X6	6-pin 90° header *	609-3327-ND
heatsink	for VR2	HS198-ND †

* Only used for ICSP (In Circuit Serial Programming)

† Left fin (viewed from front of device) must be removed for clearance

Lower cost alternatives to the screw terminals:

Part Number	Description	Digi-Key Number
X1, X2	2-position push-in terminals	277-2518-ND
X3, X4, X5	16-pin header (<i>cut into separate headers</i>)	609-3287-ND