

Sheet1

Parts for ECE473 fall 2009

These are parts in addition to the PCB and programmer

Quantities are per kit

description	quantity	part number	notes
rubber feet	4	SJ5303-7-ND	protoboard feet (0.11ea in qty of 56)
zinc plated right angle bracket	3	534-621	holds front panel to protoboard, part is not symmetrical
knob, black, 6mm D-shaft, 13.2mm tall	2	450-4762	for encoders, don't get the old blue two piece knobs
4-40 x 1/4 nylon screws	8	561-P440.25	
4-40 x 1/2 nylon screws	4	561-P440.5	
4-40 x 3/8 nylon screw	8	561-P440.375	
.062 #4 nylon washer	8	561-D462	
4-40 nylon nuts	24	561-G440	
4-40 x 1/4 threaded standoff	4	561-MF440-25	
4-40 x 1 1/4 threaded standoff	4	561-MF440-125	standoffs for mega128 board
4-40 x 1/4 steel machine screws	3	534-9400	to mount front panel, use with metal brackets on protoboard side
0.1uf ceramic caps	4	whatever is cheap	
1uf electrolytic cap	2	whatever is cheap	
4.7uf electrolytic cap	2	whatever is cheap	
3.3V LDO voltage regulator TO-92		511-LE33CZ-TR	
8 ohm speaker, Kobitone, 91mm, square	2	25SF236	
CdS cell, 4-11k ohm	1	PDV-P9001-ND	
TS912 Dual R2R opamp	2	511-TS912IN	
N-ch Enhancement MOSFET 2N7000	2	512-2N7000D75Z	
12mm encoder 12 pulse	2	P12333-ND	
7 Segment LED, 4 digit common cathode	1	LTC-4627JS	
small signal diode	8	78-1N4148	for button board, thru-hole part
pushbutton switches	8	101-0661-EV	for button board, thru-hole part
3.5mm male mono phone plug	2	CP3-1005-ND	for wiring up speaker
3.5mm mono phone jack	2	CP-3536NG-ND	for wiring up speaker
9pin male DB-9 connector (RS232)	1	156-1209T	mates to RS-232 connector on mega128 board
2x5 connector with ribbon cable	3	supplied by tekbots	
3M male pin header, 2X5	4	929836E-02-36-ND	strip of 36 pairs, tail and mating end must be >= 0.235

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shrouded ISP connector	1	517-30310-6002	mouser number, whatever is cheaper, for remote mega48 board
speaker wire	2ft	whatever is cheap	to wire up speakers
protoboard	1	proto_bd.1	ordered from advanced ckts
predrilled plexiglass front panel	1		manufactured by Stan Hall, Westcoast Proto
pen vise	1		Greenway Products, 139 Ramsey Rd. Ligonier, PA 15658
#60 drill bits	2	comes in 6-pack	Greenway Products, 139 Ramsey Rd. Ligonier, PA 15658

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