












Acrobotic AVR Synthesizer - Parts List

Part	Qty.	Reference	Description
	2	R1, R6	10K Ohm 1/4W Resistor
	3	R2, R3, R5	270Ω 1/4W Resistor
	1	R4	220Ω 1/4W Resistor
	1	R7	4.7KΩ 1/4W Resistor
	5	VR1, VR2, VR3, VR4, VR5	10KΩ Potentiometer
	1	VR6	10KΩ Trimmer (Optional)
	2	C1, C2	4.7μF Capacitor (Electrolytic)
 22J	2	C3, C4	22pF Capacitor (Ceramic)
 473	2	C5, C6	0.047μF Capacitor (Ceramic)
 104	2	C7, C8	0.1μF Capacitor (Ceramic)
	2	L1, L2	4700μH Inductor
	1	D1	Small-Signal Diode
	1	D2	General Purpose Rectifier Diode
	1	Q1	16MHz Crystal Oscillator
	1	IC1	28-Pin Socket
	2	U2, U3	8-Pin Socket
	1	(IC1)	ATMega328p IC

	1	U1	5V 1.5A Voltage Regulator
 TLC6632	1	(U2)	Rail-to-Rail Dual Op Amp IC
 6N138	1	(U3)	High-Gain Darlington Optocoupler IC
	7	S1, S2, S3, S4, S5, S6, S7	12V 0.05A Tactile Switch (SPST-NO)
	1	S8	30V 0.2A Slide Switch (SPDT)
	1	J1	2-Pin Screw Terminal Block (3.5mm)
	1	J2	0.1" Pitch, 6-Pin Male Header Right Angle
	2	J3, J4	0.1" Pitch, 8-Pin Female Socket
	1	J5	MIDI (DIN-5) Connector
	1	3.5mm	3.5mm Stereo Jack Connector (TRS)
	1	(J1)	9V Battery Snap Connector (6")
	1	ISP	0.1" Pitch, 2x3-Pin Male Header
	1	(J3, J4)	Graphic LCD 84x48 - Nokia 5110

 BAG #1

 BAG #2

 BAG #3



For instructions, firmware, files please visit:
http://github.com/acrobatic/Ai_Synth_AVR