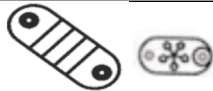


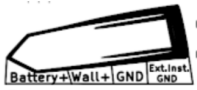



















Name	Info			Symbol	Seen In
Hairy Capacitors	Negative goes in circled pad if using electrolytics	Rungling .0001 F - Radio Ultrasound .001pF - Ultrasound .01uF - Treble .1 F - Bass 1uF - Sub-Bass 10 F - Sub-Bub-Bass 100F - Mountain Bass	Rolz Strip 0.1uf = 0.066 between pulse 1uf = 0.66 between pulse 10 uf 6.6 between pulse 47uf 31 between pulse 100uf 66 between pulse		Rungling
Hairy Capacitors	smaller values will add a dampening effect				Ultrasound Filters Plus
Red Banana Jack					Rungling
Brown Banana Jack					Rungling
Brown Banana Jack					Rungling
Sandroses	Brown Banana				Rolz Strip
Resistors	22k is default, make smaller to boost loudness, bigger to dim a signal				Rolz 5 - Ultrasound Filters
Resistor		10k-100k			Rungling
Resistor		47k-470k			Rungling
Transistor		BC556, BC557, BC558			Rungling
Transistor		BC546, BC547, BC548			Rungling
Orange Banana	CV Output				Rolz Strip
LED	Positive goes in circled pad				Rolz Strip
Electrolytic Capacitor	Negative goes in circled pad	1 uf (rolls5) 10uf			lil sidrassi, Rolz Strip, Dubernator
Electrolytic Capacitor		470 uf or 2200uf			Dubernator
Diode		1N914 (Rolz Strip),			Rolz Strip
Capacitor		0.001uf 102			Ultrasound Filters Plus
Capacitor		0.01uf 103			Ultrasound Filters Plus

Capacitor		0.1uf 104			
Capacitor		1uf 105			Ultrasound Filters Plus
Power Obelisk	pointy side positive, flat side ground (				Ultrasound Filters Plus
Power Obelisk	battery snap negative to barrel jack switch, battery snap negative to ground if not using wall plug				Dubernator
Impulse Input	Send + Nodes (Rolz)				Ultrasound Filters Plus
FM Input	Directly linked to their pot				Ultrasound Filters Plus
HF Output	a hot Square-Wave				Ultrasound Filters Plus
AUX Input	can use jacks of your choosing				Ultrasound Filters Plus
Output	left is signal, right is ground				
Audio Output	can use jacks of your choosing, be sure to ground				Ultrasound Filters Plus
Potentiometer	B10K				Ultrasound Filters Plus, Ultrasound Filters
Diode	1N4148				Walking Ring
LED	Square pad negative (-)				2 Rollz
Positive Node	0-7.75v				2 Rollz
Positive Pulse Node					2 Rollz
Speaker	Wire to two lugs of a speaker, circle hole goes to inner lug, of a 1/4" jack, square hole goes to outer lug				
Photoresistor	any value				
Wire Jumper	use a 0 value resistor or a cutoff leg of another component				

Wire Jumper	use a 0 value resistor or a cutoff leg of another component				
Choke Inductor		1mH, 10mH			Deerhorn
Trim Pot	100k, arrow points to the wiper				

Notes

Resistor Values  
 Roolz-Gewei 22k (collector), 1M (base)  
 Rollz-5 22k (collector), 470k (base)

Mouser Codes  
 299-470K = 470k 1/8 watt resistor, 78-1N914 = diode

TL082CN, 511-TL084CN 511-4013, 511-4066 = "082", "084", "4013", "4066" chips  
 BC549B = NPN transistor, 512-BC559B = PNP transistor

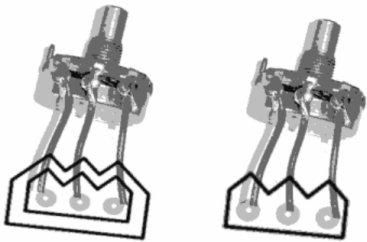
140-PF2A104K = .1 F capacitor,  
 140-XL25V1.0 = 1 F capacitor

Element electrolytic	Values)	Sound or Effect
electrolytic	1000 uf (or to taste)	affects the overall "bentness" of the circuit
spoke	0.01 uf	
SPKIN	0.1 uf	
SPEAK	4.7 uf	
CALL	1800	pf dove pitch
bird	0.1 uf	bird brain
BIRD	1 uf	bird brain
pine	1 uf	bird call length
PINE	10 uf	bird call wait
HORNA-E	1000-2200 pf	range, in train horn sounds homogenous groups
condu	0.1 uf	brisk conductor or one echoing in mountain tunnels
TERR	10 uf	speed of the terrain
coner	0.1 uf	length of the toot-toots
CONDO	0.1 uf	wait between toot-toots
MOUTH	0.01 uf	frequency of the monk's mouth
TEXTA, B thort,	4.7 uf	change rate of the monk's chant
THROT	0.047 uf and 0.1 uf	respectively the timbre of the monk's throat

Rollz Strip	
Value	Time
0.1 uf	0.066s
1 uf	0.66s
10uf	6.6s
47uf	31s
100uf	66s



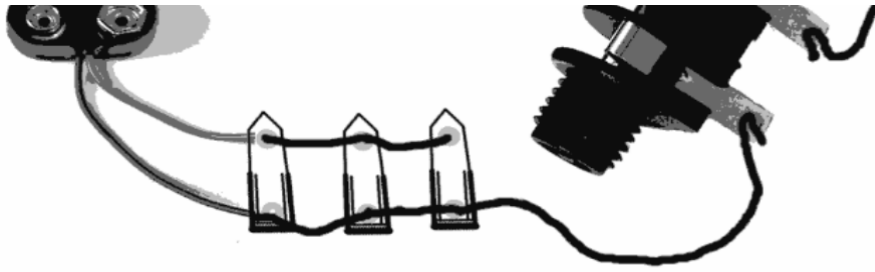




These are the output pods. Connect them all together and then to the output jack like shown. Each output has a "z" resistor. Standard is 22k; make it smaller to boost the loudness of any output. Make it bigger to dim a signal.

t





## Ciat-Lonbarde

Cool colors are inputs and hot colors are outputs.

Signal	Color <sup>[17][18][19]</sup>	Comment
Ground	black	To connect other gear.
CV in	blue	
Clock/trig in	green	
FM in	purple	
Pulse out & clock/trig in	brown	
Random out	grey	
Audio out	white	
Ultrasound out	yellow	
Pulse out	red	
CV out	orange	

