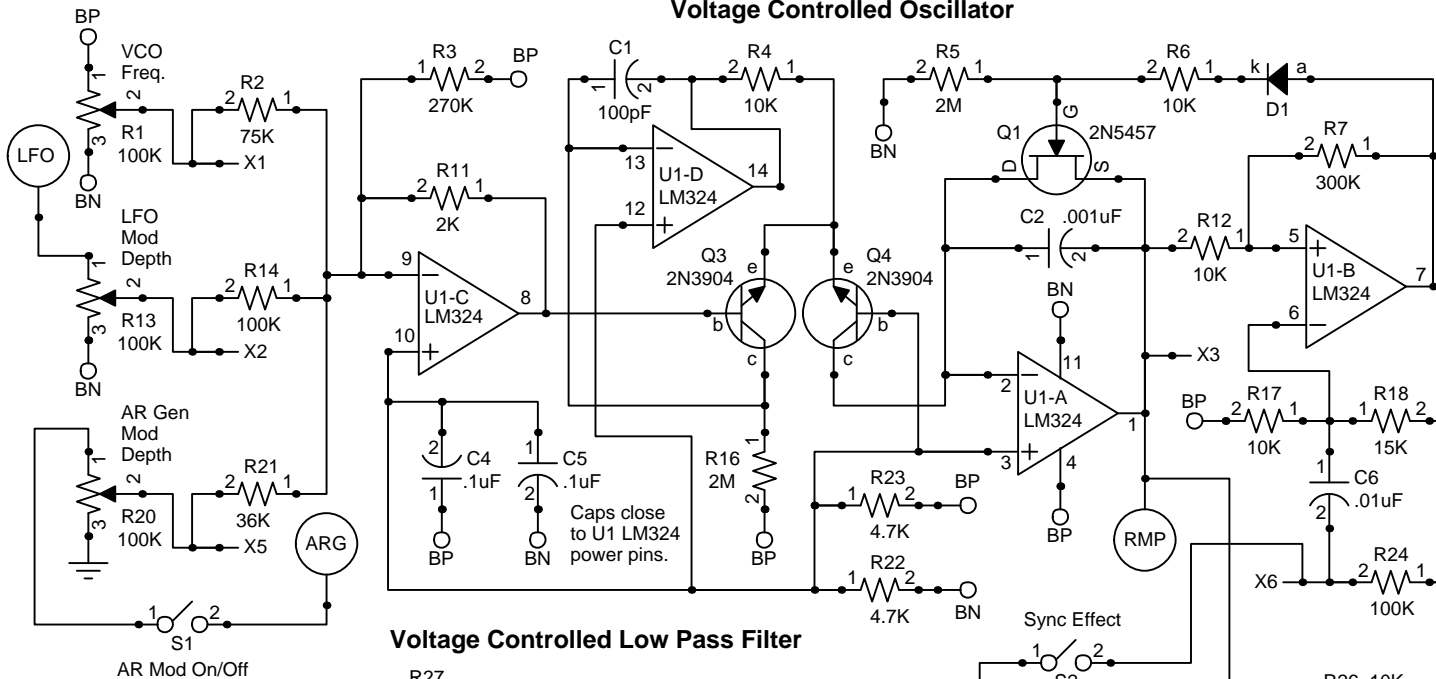
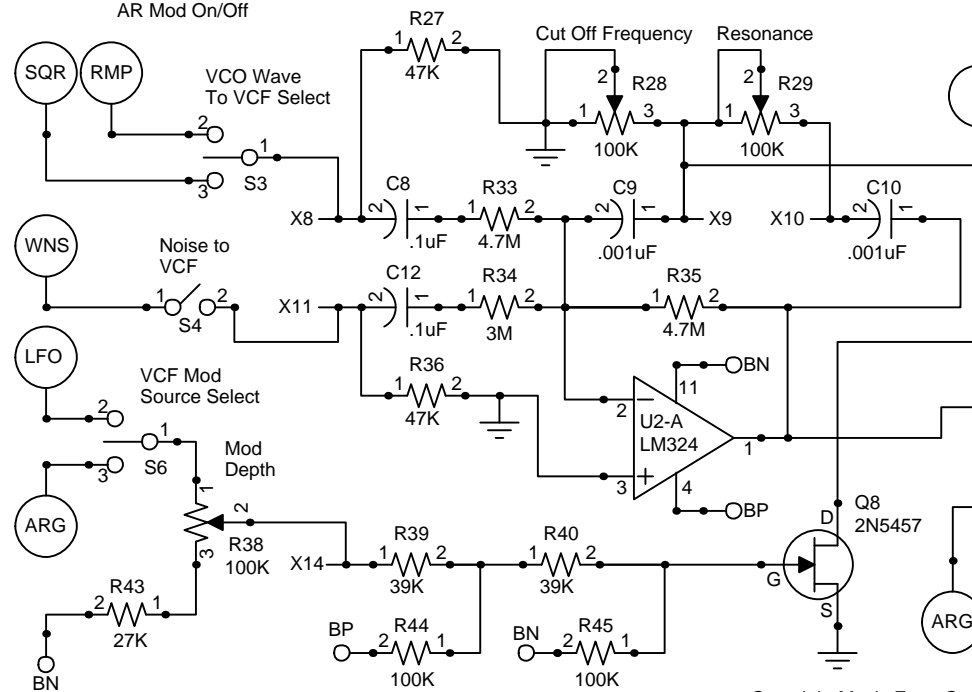


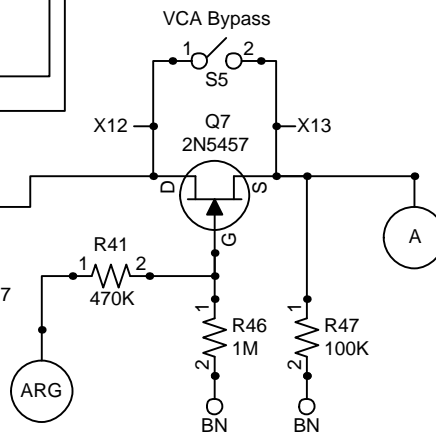
## Voltage Controlled Oscillator



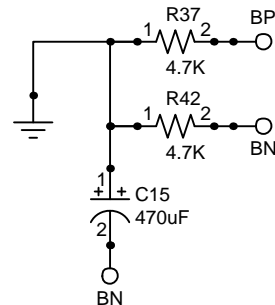
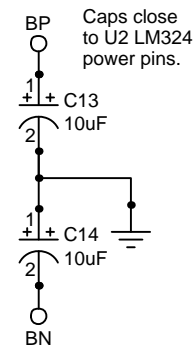
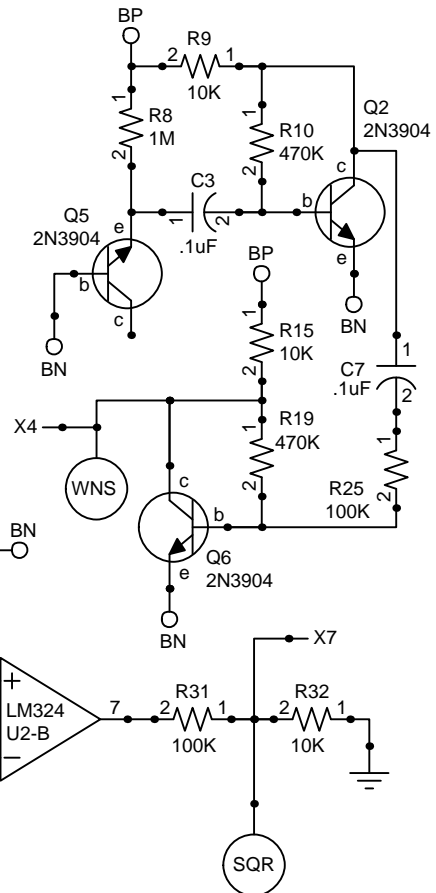
## Voltage Controlled Low Pass Filter

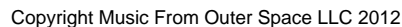


## Voltage Controlled Amplifier



## White Noise Generator





# Music From Outer Space NOISE TOASTER

Voltage Controlled Oscillator			Output		
<p>Frequency</p> <p>4 6 7 8 9 10</p> <p>3 2 1 0</p> <p>+</p>	<p>Sync</p> <p>+</p> <p>Off</p>	<p>LFO Mod Depth</p> <p>4 6 7 8 9 10</p> <p>3 2 1 0</p> <p>+</p>	<p>AR Mod Depth</p> <p>4 6 7 8 9 10</p> <p>3 2 1 0</p> <p>+</p>	<p>AR Mod</p> <p>+</p> <p>Off</p>	<p>+</p>
<p>Input Select</p> <p>VCO <input type="checkbox"/> Off</p> <p><input type="checkbox"/> White Noise</p>					<p>Volume</p> <p>4 6 7 8 9 10</p> <p>3 2 1 0</p> <p>+</p>
Voltage Controlled Low Pass Filter			VCA		
<p>Cutoff Frequency</p> <p>4 6 7 8 9 10</p> <p>3 2 1 0</p> <p>+</p>	<p>Resonance</p> <p>4 6 7 8 9 10</p> <p>3 2 1 0</p> <p>+</p>	<p>Mod Depth</p> <p>4 6 7 8 9 10</p> <p>3 2 1 0</p> <p>+</p>	<p>VCA (AR mod)</p> <p>+</p>		
<p>AR Envelope Generator</p> <p>Attack</p> <p>4 6 7 8 9 10</p> <p>3 2 1 0</p> <p>+</p>			<p>Release</p> <p>4 6 7 8 9 10</p> <p>3 2 1 0</p> <p>+</p>	<p>Bypass</p> <p>+</p>	
<p>Repeat</p> <p>+</p> <p>Manual Gate</p> <p>+</p>			<p>LFO</p> <p>+</p> <p>AR</p> <p>+</p>	<p>Power</p> <p>On</p> <p>+</p> <p>Off</p> <p>+</p>	
<p>LFO Waveform Select</p> <p>+</p> <p>+</p> <p>+</p> <p>+</p>			<p>Rate</p> <p>4 6 7 8 9 10</p> <p>3 2 1 0</p> <p>+</p>		

# **NOISE TOASTER KIT PARTS LIST**

**Compiled by Ray Wilson August 2012**

**This is the list of parts that come with the NOISE TOASTER kit.**

**!! NOTICE !!**

**KIT DOES NOT COME WITH FACEPLATE OR CASE.**

# SEMICONDUCTORS

- 1 LM386N4 Low Voltage Audio Power Amp
- 1 Transistor NPN 2N3906
- 1 General Purpose Red LED
- 2 LM324 Quad Low Power Op Amp
- 3 1N914 High Speed Sw. Diode
- 4 2N5457 N Channel JFET
- 5 Transistor NPN 2N3904

# RESISTORS PAGE I

1	300K	Resistor 1/4 Watt 5%
1	36K	Resistor 1/4 Watt 5%
1	15K	Resistor 1/4 Watt 5%
1	820 $\Omega$	Resistor 1/4 Watt 5%
1	3M	Resistor 1/4 Watt 5%
1	200 $\Omega$	Resistor 1/4 Watt 5%
1	20K	Resistor 1/4 Watt 5%
1	270K	Resistor 1/4 Watt 5%
1	27K	Resistor 1/4 Watt 5%
1	2K	Resistor 1/4 Watt 5%
1	10 $\Omega$	Resistor 1/4 Watt 5%

## RESISTORS PAGE II

2	39K	Resistor 1/4 Watt 5%
2	4.7M	Resistor 1/4 Watt 5%
2	1M	Resistor 1/4 Watt 5%
2	150K	Resistor 1/4 Watt 5%
2	47K	Resistor 1/4 Watt 5%
2	75K	Resistor 1/4 Watt 5%
3	2M	Resistor 1/4 Watt 5%
3	3K	Resistor 1/4 Watt 5%
3	470K	Resistor 1/4 Watt 5%
5	4.7K	Resistor 1/4 Watt 5%
11	10K	Resistor 1/4 Watt 5%
12	100K	Resistor 1/4 Watt 5%

# CAPACITORS

1	.047uF	Capacitor Ceramic
1	100pF	Capacitor Ceramic
1	.01uF	Capacitor Ceramic
1	4.7uF	Capacitor Electrolytic
1	220uF	Capacitor Electrolytic Radial Lead 0.2" Spacing
2	1uF	Capacitor Electrolytic
2	1uF	Capacitor Aluminum Bipolar (non polarized)
3	.001uF	Capacitor Ceramic
3	10uF	Capacitor Electrolytic
3	470uF	Capacitor Electrolytic Radial Lead 0.2" Spacing
8	.1uF	Capacitor Ceramic



## MECHANICAL PARTS

- 1 NOISE TOASTER PC Board
- 1 Spool of Wire (25 feet)
- 1 SPST N.O. Pushbutton
- 1 Jack 1/4" With NC Switch to Tip
- 1 Speaker 2 1/4 inch 8 ohm 8 ohm 1W
- 2 SPDT (Center Off) Mini Toggle
- 8 SPDT Mini Toggle
- 2 1.5" 6-32 Machine Screws
- 4 6-32 Machine Nuts
- 4 1/4" x 3/8" #6 Nylon Spacers
- 3 Linear Taper Potentiometer 1M
- 7 Linear Taper Potentiometer 100K
- 1 Battery Holder and Battery Snap
- 10 Potentiometer knobs