



# Micro Mixer (Forrest M. Mimms III JFET Mixer)

## Bill of Materials











Version 2014July02

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### Resistors:

Resistor ID	Value	3-band Marking	4-band Marking
R3	470 ohm	 yellow-violet-brown	 yellow-violet-black-black
R4	100 ohm	 brown-black-brown	 brown-black-black-black
R5a	(Potentiometer)		
R5b	(Potentiometer)		
R7	1k	 brown-black-red	 brown-black-black-brown
R9a	100k	 brown-black-yellow	 brown-black-black-orange
R9b	100k	 brown-black-yellow	 brown-black-black-orange

### Capacitors:

Capacitor ID	Value	Type	Possible Marking
C1a	1 $\mu$ F	Film or Aluminum Electrolytic	105 or 1 $\mu$ F
C1b	1 $\mu$ F	Film or Aluminum Electrolytic	105 or 1 $\mu$ F
C2	1 $\mu$ F	Film or Aluminum Electrolytic	105 or 1 $\mu$ F
C3	47 $\mu$ F	Aluminum Electrolytic	47 $\mu$ F
C4	100 $\mu$ F	Aluminum Electrolytic	100 $\mu$ F

### Potentiometers:

Part ID	Value	Type
R5a - Volume Control (Channel 1)	1M	Linear Taper
R5b - Volume Control(Channel 2)	1M	Linear Taper

### Other:

Part ID	Part Name
D2	LED



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Q1	MPF102 JFET Transistor
J1	Stereo quarter-inch jack
J2	Mono quarter-inch jack
J3	DC Jack
J4	Mono quarter-inch jack
B1	9 volt battery (not included in the Kit)
	9v battery snap, Printed Circuit Board, 24 gauge stranded wire, Enclosure, Knobs