

ColorSound™ ToneBender Mark II Professional™ Replica (NPN Silicon Version) Bill of Materials






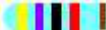







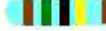

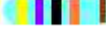

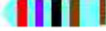






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Resistors:

| Resistor ID | Value | 3-band Marking | 4-band Marking |
|-----------------------------------|------------------------------|--|---|
| R1 | 100k |  brown-black-yellow |  brown-black-black-orange |
| R2 | 10k |  brown-black-orange |  brown-black-black-red |
| R3 | 47k |  yellow-violet-orange |  yellow-violet-black-red |
| R4 | 100k |  brown-black-yellow |  brown-black-black-orange |
| R5 | 1k |  brown-black-red |  brown-black-black-brown |
| R6 | 5k6 (5.6k) |  green-blue-red |  green-blue-black-brown |
| R6T (optional replacement for R6) | 20k Trimmer potentiometer | | |
| R7 (Attack Control Potentiometer) | 1k Linear | | |
| R8 (Volume Control Potentiometer) | 100k Log | | |
| R9 | 1M5 (1.5M) |  brown-green-green |  brown-green-black-yellow |
| R10 | 470k |  yellow-violet-yellow |  yellow-violet-black-orange |
| R11 | 2k7 (2.7k) |  red-violet-red |  red-violet-black-brown |
| R12 | 100 ohm |  brown-black-brown |  brown-black-black-black |
| R13 | 220 ohm |  red-red-brown |  red-red-black-black |
| R14 | 1k |  brown-black-red |  brown-black-black-brown |



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Capacitors:

| Capacitor ID | Value | Type | Possible Marking |
|--------------|--------|-----------------------|------------------|
| C1 | 4.7µF | Aluminum Electrolytic | 4.7µF |
| C2 | 0.1µF | Film | 104 |
| C2 | 0.1µF | Film | 104 |
| C4 | 4.7µF | Aluminum Electrolytic | 4.7µF |
| C5 | 47µF | Aluminum Electrolytic | 47µF |
| C6 | 0.01µF | Film | 103 |

Potentiometers:

| Part ID | Value | Type |
|---------------------|-------|----------------------|
| R7 - Attack Control | 1k | Reverse Log Taper |
| R8 - Volume Control | 100k | Log (or Audio) Taper |

Other:

| Part ID | Part Name |
|---------|--|
| D2 | LED |
| Q1 | 2N4401 or other NPN Silicon bipolar junction transistor |
| Q2 | 2N4401 or other NPN Silicon bipolar junction transistor |
| Q3 | 2N5089 or other NPN Silicon bipolar junction transistor |
| J1 | Stereo quarter-inch jack |
| J2 | Mono quarter-inch jack |
| J3 | DC Jack |
| B1 | 9 volt battery (not included in the Kit) |
| Sw1 | Heavy Duty 3PDT foot switch |
| | 9v battery snap, Printed Circuit Board, 24 gauge stranded wire, Enclosure, Knobs |