

# ZKIT1 bill of material 2021, 2022

| Qty | SUGGESTED PARTS FOR CIRCUIT BOARD                                                                                                                                                                            | link to originally specified part                                                                                                                                                                             | link to component actually built with                                                                                         | comments                                                                                                                                                                       |
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| 1   | circuit board                                                                                                                                                                                                | <a href="https://www.decware.com/newsite/SE84CDIY.htm">https://www.decware.com/newsite/SE84CDIY.htm</a>                                                                                                       |                                                                                                                               |                                                                                                                                                                                |
| 1   | 120V POWER TRANSFORMER<br><br><a href="#">EDCOR</a> - XPWR107-120<br>Power transformer for a 120V, 60Hz. line to 600V (300-0-300) at 150mA center tapped and 6.3V at 4A.<br><br>Approx cost \$58 (JUNE 2011) | <a href="https://edcorusa.com/products/xpwr107-600v-150ma-ct-6-3v-4a">https://edcorusa.com/products/xpwr107-600v-150ma-ct-6-3v-4a</a>                                                                         |                                                                                                                               |                                                                                                                                                                                |
| 2   | OUTPUT TRANSFORMERS<br><br><a href="#">EDCOR</a> - GXSE10-6-8K<br>10W, single ended tube output transformer for 8K Ohms to 6 Ohms.<br><br>Approx cost \$27 (JUNE 2011)                                       | <a href="https://edcorusa.com/products/gxse10-8k-10w-8k-ohms-single-ended-guitar-tube-output-transformer">https://edcorusa.com/products/gxse10-8k-10w-8k-ohms-single-ended-guitar-tube-output-transformer</a> |                                                                                                                               |                                                                                                                                                                                |
| 1   | Mouser #: 75-516D108M035-E3<br>Mfr. #: 516D108M035PS6AE3<br>Manufacturer: Vishay<br>Desc.: Aluminum Electrolytic Capacitors - Leaded 1000uF 35volts 20%                                                      | <a href="https://www.mouser.com/ProductDetail/Vishay/516D108M035PS6AE3?qs=3u08Ufv2zkbp9EsXO5LLjg%3D%3D">https://www.mouser.com/ProductDetail/Vishay/516D108M035PS6AE3?qs=3u08Ufv2zkbp9EsXO5LLjg%3D%3D</a>     | <a href="https://www.mouser.com/ProductDetail/647-UKA1V102MHD1TO">https://www.mouser.com/ProductDetail/647-UKA1V102MHD1TO</a> | original obsolete, first tried <a href="https://www.mouser.com/ProductDetail/75-30D108M035EH2A">https://www.mouser.com/ProductDetail/75-30D108M035EH2A</a> but it was too long |
| 2   | Mouser #: 647-TVX2W330MCD<br>Mfr. #: TVX2W330MCD<br>Manufacturer: Nichicon<br>Desc.: Aluminum Electrolytic Capacitors - Leaded 450volts 33uF 18x41 20%                                                       | <a href="https://www.mouser.com/ProductDetail/Nichicon/TVX2W330MCD?qs=A09egTk0tbUkbbjJCkzPKw%3D%3D">https://www.mouser.com/ProductDetail/Nichicon/TVX2W330MCD?qs=A09egTk0tbUkbbjJCkzPKw%3D%3D</a>             | <a href="https://www.mouser.com/ProductDetail/598-336TTA450M">https://www.mouser.com/ProductDetail/598-336TTA450M</a>         | original obsolete                                                                                                                                                              |
| 2   | Mouser #: 75-TVA1508<br>Mfr. #: TVA1508<br>Manufacturer: Vishay<br>Desc.: Aluminum Electrolytic Capacitors - Leaded 250V 20UF                                                                                | <a href="https://www.mouser.com/ProductDetail/75-TVA1508">https://www.mouser.com/ProductDetail/75-TVA1508</a>                                                                                                 |                                                                                                                               |                                                                                                                                                                                |
| 2   | Mouser #: 539-150104J400EC<br>Mfr. #: 150104J400EC<br>Manufacturer: Cornell Dubilier<br>Desc.: Polyester Film Capacitors 400V .1UF METAL POLY                                                                | <a href="https://www.mouser.com/ProductDetail/539-150104J400EC">https://www.mouser.com/ProductDetail/539-150104J400EC</a>                                                                                     | <a href="https://www.mouser.com/ProductDetail/80-A50MH3100AA60K">https://www.mouser.com/ProductDetail/80-A50MH3100AA60K</a>   | used KMET for Hazen mod capacitors in part based on size (length) to better fit the board, bought signal caps from Parts Express                                               |

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| 2 | Mouser #: 161-4217 or 568-NYS354<br>Mfr. #: 161-4217<br>Manufacturer:<br>Desc.: Phono (RCA) Connectors PHONO R/A PCB                              | <a href="https://www.mouser.com/ProductDetail/568-NYS354">https://www.mouser.com/ProductDetail/568-NYS354</a>               | <a href="https://www.mouser.com/ProductDetail/534-936">https://www.mouser.com/ProductDetail/534-936</a> and <a href="https://www.mouser.com/ProductDetail/534-937">https://www.mouser.com/ProductDetail/534-937</a> | chose to get two different colors                                                                                                                                                  |
| 1 | Mouser #: 313-1240F-100K<br>Mfr. #: RV122F-20-15F-A100K<br>Manufacturer: Alpha (Taiwan)<br>Desc.: Panel Mount Potentiometers Audio D-Shaft 100K   | <a href="https://www.mouser.com/ProductDetail/313-1240F-100K">https://www.mouser.com/ProductDetail/313-1240F-100K</a>       |                                                                                                                                                                                                                     |                                                                                                                                                                                    |
| 1 | Mouser #: 262-6.8K-RC<br>Mfr. #: 262-6.8K-RC<br>Manufacturer: Xicon<br>Desc.: Metal Oxide Resistors 6.8Kohms 5% Tol                               | <a href="https://www.mouser.com/ProductDetail/262-6.8K-RC">https://www.mouser.com/ProductDetail/262-6.8K-RC</a>             | <a href="https://www.mouser.com/ProductDetail/279-ROX2SJ6K8">https://www.mouser.com/ProductDetail/279-ROX2SJ6K8</a>                                                                                                 | original only available in 100 piece pack, chose other                                                                                                                             |
| 1 | Mouser #: 71-CW5-1.0K<br>Mfr. #: CW0051K000JB12<br>Manufacturer: Vishay<br>Desc.: Wirewound Resistors - Through Hole 5watts 1Kohms 5%             | <a href="https://www.mouser.com/ProductDetail/71-CW5-1.0K">https://www.mouser.com/ProductDetail/71-CW5-1.0K</a>             |                                                                                                                                                                                                                     |                                                                                                                                                                                    |
| 2 | Mouser #: 71-RL20S-G-1.5K/R<br>Mfr. #: RL20S272GRE5<br>Manufacturer: Vishay<br>Desc.: Metal Film Resistors - Through Hole 1/2watt 1.5Kohms 2%     | <a href="https://www.mouser.com/ProductDetail/71-RL20S-G-1.5K-R">https://www.mouser.com/ProductDetail/71-RL20S-G-1.5K-R</a> |                                                                                                                                                                                                                     |                                                                                                                                                                                    |
| 2 | Mouser #: 71-RL20S-G-2.7K/R<br>Mfr. #: RL20S272GRE6<br>Manufacturer: Vishay<br>Desc.: Metal Film Resistors - Through Hole 1/2watt 2.7Kohms 2%     | <a href="https://www.mouser.com/ProductDetail/71-RL20S-G-2.7K-R">https://www.mouser.com/ProductDetail/71-RL20S-G-2.7K-R</a> |                                                                                                                                                                                                                     |                                                                                                                                                                                    |
| 4 | Mouser #: 71-RN65D-F-1.0K<br>Mfr. #: RN65D1001FB14<br>Manufacturer: Vishay<br>Desc.: Metal Film Resistors - Through Hole 1/2watt 1Kohms 1% 100ppm | <a href="https://www.mouser.com/ProductDetail/71-RN65D-F-1.0K">https://www.mouser.com/ProductDetail/71-RN65D-F-1.0K</a>     | <a href="https://www.mouser.com/ProductDetail/71-RN65D-F-1K-R">https://www.mouser.com/ProductDetail/71-RN65D-F-1K-R</a><br>mfg #<br>RN65D1001FRE6                                                                   | only 1 of original available for immediate shipping when I ordered, original specs say 1/4 W, replacement says 1/2 W                                                               |
| 2 | Mouser #: 280-CR5-10K-RC<br>Mfr. #: 280-CR5-10K-RC<br>Manufacturer: Xicon<br>Desc.: Wirewound Resistors - Through Hole 10Kohms 5% Tol             | <a href="https://www.mouser.com/ProductDetail/280-CR5-10K-RC">https://www.mouser.com/ProductDetail/280-CR5-10K-RC</a>       | <a href="https://www.mouser.com/ProductDetail/588-53J10KE">https://www.mouser.com/ProductDetail/588-53J10KE</a>                                                                                                     | minimum buy was 10 for original spec, chose alternate that looked more like what I saw in Decware pictures, diagram says 1/2 watt, spec for original part is 5W, chosen part is 3W |

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| 2 | Mouser #: 625-RGP10M-E3<br>Mfr. #: RGP10M-E3/54<br>Manufacturer: Vishay<br>Desc.: Diodes (General Purpose, Power, Switching) 1.0 Amp 1000 Volt    | <a href="https://www.mouser.com/ProductDetail/625-RGP10M-E3">https://www.mouser.com/ProductDetail/625-RGP10M-E3</a>                                                         |                                                                                                                                   |                                                                                                                |
| 1 | Mouser #: 71-CP0005150R0JE14<br>Mfr. #: CP0005150R0JE14<br>Manufacturer: Vishay<br>Desc.: Wirewound Resistors - Through Hole 150ohms 5% 5watts    | <a href="https://www.mouser.com/ProductDetail/71-CP0005150R0JE14">https://www.mouser.com/ProductDetail/71-CP0005150R0JE14</a>                                               |                                                                                                                                   |                                                                                                                |
| 2 | Mouser #: 66-RC20GF473J<br>Mfr. #: RC20GF473J<br>Manufacturer: IRC<br>Desc.: Carbon Composition Resistors 47K OHM 5%                              | <a href="https://www.mouser.com/ProductDetail/66-RC20GF473J">https://www.mouser.com/ProductDetail/66-RC20GF473J</a>                                                         | <a href="https://www.mouser.com/ProductDetail/279-CBT50J47K">https://www.mouser.com/ProductDetail/279-CBT50J47K</a>               | original not in stock                                                                                          |
| 2 | Mouser #: 660-MO2CT631R102J<br>Mfr. #: MO2CT631R102J<br>Manufacturer: KOA Speer<br>Desc.: Metal Oxide Resistors 2W 1K 5%                          | <a href="https://www.mouser.com/ProductDetail/660-MO2CT631R102J">https://www.mouser.com/ProductDetail/660-MO2CT631R102J</a>                                                 |                                                                                                                                   |                                                                                                                |
| 2 | Mouser #: 273-330K-RC<br>Mfr. #: 273-330K-RC<br>Manufacturer: Xicon<br>Desc.: Metal Film Resistors - Through Hole 1/2watt 330Kohms 1%             | <a href="https://www.mouser.com/ProductDetail/273-330K-RC">https://www.mouser.com/ProductDetail/273-330K-RC</a>                                                             | <a href="https://www.mouser.com/ProductDetail/660-MF1-2DCT52R3303F">https://www.mouser.com/ProductDetail/660-MF1-2DCT52R3303F</a> | 100 piece minimum on original, chose alternate from same manufacturer as other output tube resistor: KOA Speer |
| 2 | Mouser #: 71-RN65D-F-100<br>Mfr. #: RN65D1000FB14<br>Manufacturer: Vishay<br>Desc.: Metal Film Resistors - Through Hole 1/2watt 100ohms 1% 100ppm | <a href="https://www.mouser.com/ProductDetail/71-RN65D-F-100">https://www.mouser.com/ProductDetail/71-RN65D-F-100</a>                                                       |                                                                                                                                   |                                                                                                                |
| 1 | Mouser #: 161-BVB01/Z0000/01<br>Mfr. #: BVB01/Z0000/01<br>Mfr.: Bulgin<br>Description: AC Power Entry Modules FUSED INLET SP SW POWER MODULE      |                                                                                                                                                                             | <a href="https://www.mouser.com/ProductDetail/161-BVB01-Z0000-01">https://www.mouser.com/ProductDetail/161-BVB01-Z0000-01</a>     |                                                                                                                |
| 1 | 3A, 250 VAC fuse                                                                                                                                  |                                                                                                                                                                             | <a href="https://www.mouser.com/ProductDetail/504-BK1-GMC-3-R">https://www.mouser.com/ProductDetail/504-BK1-GMC-3-R</a>           |                                                                                                                |
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| 2 | Parts Express #: 027-544<br>Mfr. #: 3.3uF 400V<br>Manufacturer: Solen<br>Desc.: polypropylene capacitors                                          | <a href="https://www.parts-express.com/Solen-3.3uF-400V-Polypropylene-Capacitor-027-544">https://www.parts-express.com/Solen-3.3uF-400V-Polypropylene-Capacitor-027-544</a> |                                                                                                                                   |                                                                                                                |

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| 3 | Parts Express #: 055-540<br>Mfr. #:<br>Manufacturer:<br>Desc.: PC mount 9-pin miniature ceramic tube socket. Gold plated pins.                | <a href="https://www.parts-express.com/9-Pin-Tube-Socket-Gold-Plated-Ceramic-PC-Mount-12AX7-Type-055-540">https://www.parts-express.com/9-Pin-Tube-Socket-Gold-Plated-Ceramic-PC-Mount-12AX7-Type-055-540</a> |                                                                                                                                                                                                                 |                                                                         |
| 2 | Parts Express #: 090-475<br>Mfr. #:<br>Manufacturer: Cliff<br>Desc.: Standard .75" dual binding posts made for chassis mounting               | <a href="https://www.parts-express.com/Dual-Binding-Post-1-Red-1-Black-090-475">https://www.parts-express.com/Dual-Binding-Post-1-Red-1-Black-090-475</a>                                                     |                                                                                                                                                                                                                 |                                                                         |
| 2 | Mouser #: 539-150104J400EC<br>Mfr. #: 150104J400EC<br>Manufacturer: Cornell Dubilier<br>Desc.: Polyester Film Capacitors 400V .1UF METAL POLY |                                                                                                                                                                                                               | <a href="https://www.parts-express.com/Audyn-Cap-Plus-0.1uF-1.2KV-Double-Layer-MKP-Foil-Capacitor-027-126">https://www.parts-express.com/Audyn-Cap-Plus-0.1uF-1.2KV-Double-Layer-MKP-Foil-Capacitor-027-126</a> | I knew the dimensions when I ordered, but man these look huge in person |
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| 2 | premium quality N.O.S. 6P15P-EV output tubes                                                                                                  | <a href="https://www.decware.com/newsite/tubesets.htm">https://www.decware.com/newsite/tubesets.htm</a>                                                                                                       | bought 8 from Russian on Ebay                                                                                                                                                                                   |                                                                         |
| 1 | The input tube is a single 6N1P, 6922 or 6DJ8 - your choice                                                                                   | <a href="https://www.decware.com/newsite/tubesets.htm">https://www.decware.com/newsite/tubesets.htm</a>                                                                                                       | bought 4 from Russian on Ebay                                                                                                                                                                                   |                                                                         |
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| 1 | potentiometer knob                                                                                                                            |                                                                                                                                                                                                               | <a href="https://www.amazon.com/dp/B07GXDRBYN">https://www.amazon.com/dp/B07GXDRBYN</a>                                                                                                                         |                                                                         |
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