**Parts List for Unbalanced to Balanced Converter Project**

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| **Qty.** | **Part** | **Description/Notes** |
| 1 | 5532 | Dual section op-amp – one used in each converter |
| 1 | DIP Socket | 8-pin DIP socket for 5532 IC |
| 2 | 10 kΩ | ½ watt resistor |
| 5 | 3.3 kΩ | ½ watt resistor |
| 2 | 300 Ω | ½ watt resistor |
| 2 | 100 Ω | ½ watt resistor |
| 1 | 80 Ω | ½ watt resistor |
| 1 | 10 kΩ | 20-turn miniature trim potentiometer |
| 1 | 220 uF | 10-volt electrolytic capacitor |
| 3 | 330 uF | 25-volt or greater electrolytic capacitor |
| 1 | Phono Jack | RCA proprietary female skirt-mount connector |
| 1 | XLR-3 Male | Skirt type |
| 1 | DC-DC Converter | Murata model NMA0515SC – 5 volts in with + & - 15 volts out |
| X | DIP Switch | A switch with at least three sections per converterA single 8-section switch was used here for two converters on one PCB |
| X | 0.01 uF | Ceramic or mylar capacitors 25 volts or greater used for decoupling as needed |
| 1 | Bridge Rectifier | 1-amp better than 25-volt PCB type |
| 1 | 7805 | 5-volt positive three pin regulator preferably in a TO-220 case |
| x | DC Source | Wall wart or similar between 8 and 24 volts – 250 mA or better  |
| 1 | DIN DC Jack | Skirt mounted power jack to match your wall wart |
| x | PCB Proto Board | Protoboards with DIP format sized to fit in the BUD box were used here |
| 1 | Enclosure | BUD box or similar packing as needed |
|  | **Optional** |  |
| 1 | Isolation Transformer | Triad Magnetic model TY-145P 600 to 600 ohm |