

Helpful Parts Not In Circuit

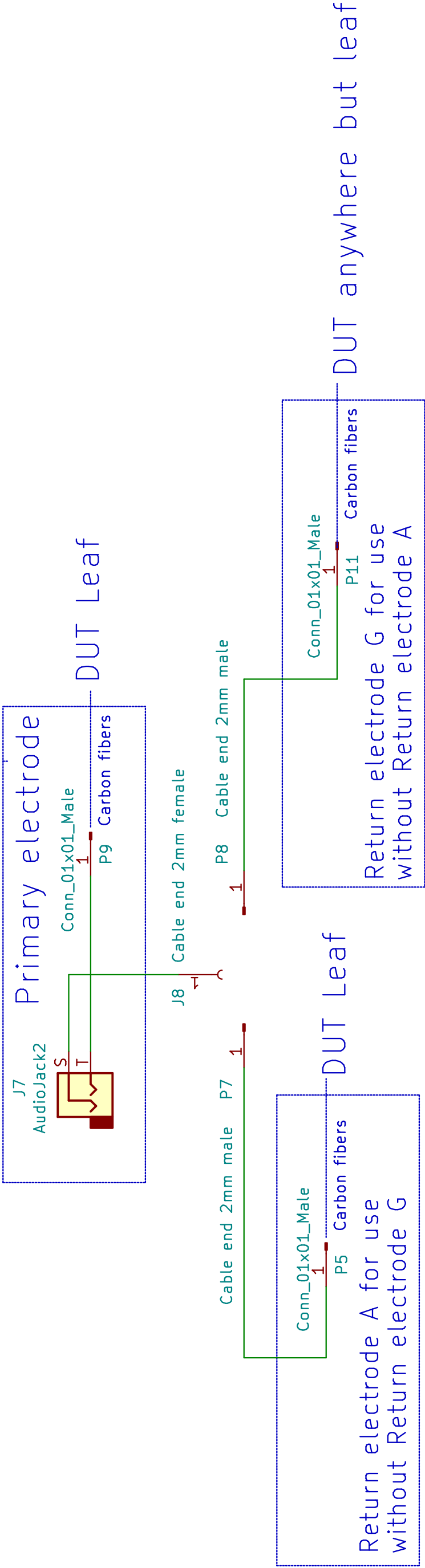
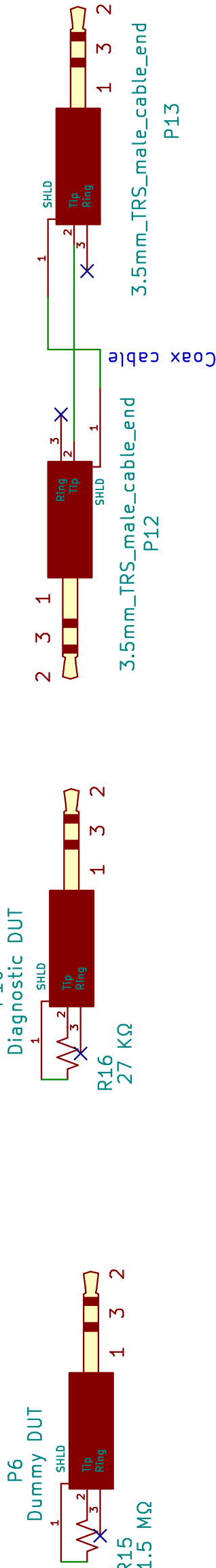
NOTE: Except where indicated otherwise, component part numbers and vendors are suggested based on likely imperfect research of pricing and availability for the USA in the spring of 2019.

- or liquid Polyimide (Kapton) tape 3/8" wide 6' length or greater. Use as electrical insulator and place assist. P/N 3057 from Arrow or equivalent
- 38ga magnet wire for trace repairs. P/N 3522 from Arrow or equivalent
- Solder wick P/N TOL-09327 from Arrow or equivalent
- Soldering colophony (pine or rosin) - NOT with zinc nor ammonium chlorides) flux (can make it yourself)
- 60/40 Coaxial cable shield (1/4" inner diameter)
- Multi-strand flat IDC ribbon cable hookup wire. P/N 2001 from Arrow
- Electrode clamps: one per leaf electrode. Having attachment means and gripping spring somewhere along hinge axis and having enough suspending points spread out to hold clamps in any specific orientation needed.
- 2 Electrode clammish cushions made from white or ivory color "Kaysen-Roth No nonsense knee high 100% nylon socks MADE IN USA" UPC 70011195323 (<https://www.upcindex.com/70011195323>). Partially filled with craft-syn styrofoam balls, aka "beads" or beans; approx. 5mm dia. Per Kayser-Roth Consumer Care; you are able to order the Nonsense Knee from our online store. kayser-roth@kayser-roth.com or www.kayser-roth.com
- Rite-Aid, Food Lion, Harris Teeter, HEB, CVS, or local supermarket around you. Yet I actually found them at Wal-Mart.
- Carbon suspension device of your own making that won't sink into ground and extends a guy strings hang point above DUT
- Carbon fiber tow, non-impregnated with a gold-plated transition pin per electrode (we have no source yet, but "non-impregnated" basically means "not the shiny type"). The transition pin will interface between the carbon fiber and wiring to the receptacle that receives the coaxial cable type. Ensure that conductor material transitions are both (excitation/sense side and return sides of the coax cable) identical to the clammish galvanic volleys cancel out.

NOTE - Very high temp solder (K100) not allowed on U4s. The best solder will always be "No Heat SAC305"; if you can find it, but you still MUST cleanse gold from pads. Avoid Pb (lead) solder unless you understand the behavior of eutectics, how Pb ruins other solders, and how gold from ENIG ruins Pb solder.

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NOTE: These symbols are required to generate an accurate BOM. To use them in that way, copy them and paste them anywhere into the main page. They do not have to show within any sheet boundary. Generate the new BOM and delete the symbol copies from the main page, when finished, always leaving the original symbols in this sheet. If the copies are left in the main page when later updating the PCB, they will interfere with the generation of the PCB Gerber files because these have no residencies on the PCB.



The pins inside the electrodes are to enable gold compatible finish electrical contact in the electrode assemblies for the carbon fiber. One pin belongs in each electrode assembly.

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File: Coax Cable and Diagnostic DUT.sch

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Size: A4 Date:

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