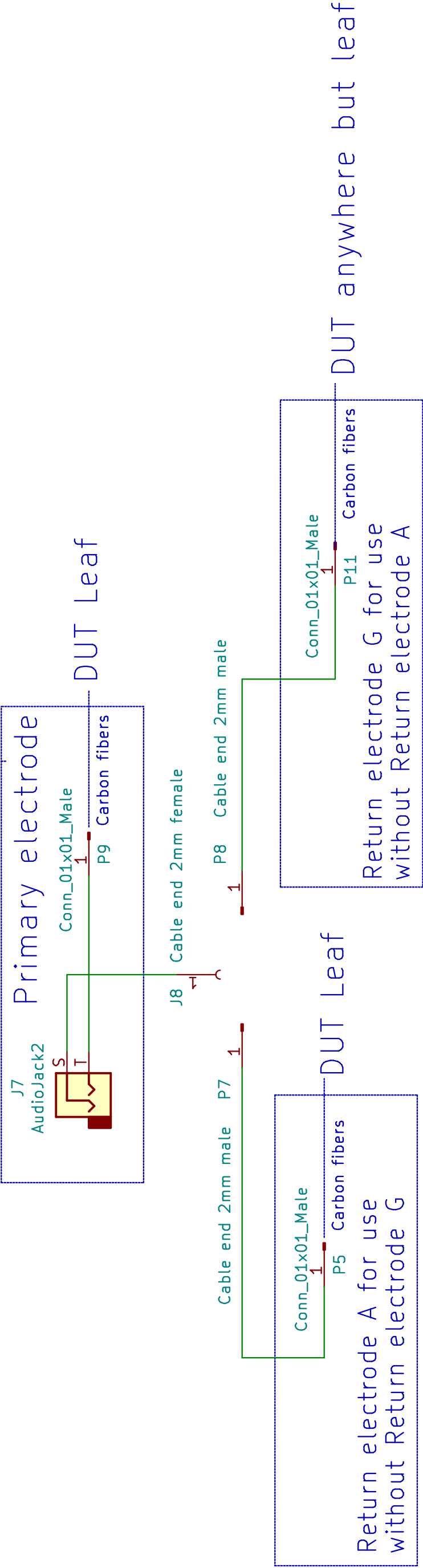
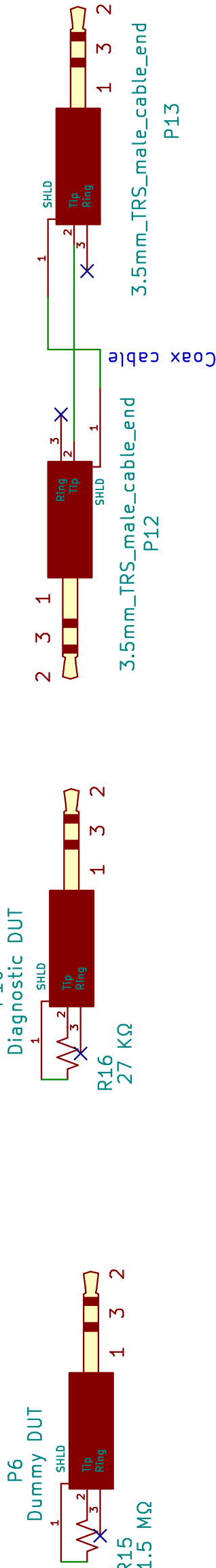


# Helpful Parts Not In Circuit

- 1 roll 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 gum ROSIN – NOT with zinc or ammonium chloride) flux (can make it yourself)
  - RG316 Coaxial cable 2m/6ft min length
  - Multi-conductor flat IDC ribbon cable or hookup wire. P/N 2001 to 2006 from Arrow
  - Electrode clamsHELLs; one per lead electrode. Having attachment means and gripping spring somewhere along hinge axis and having enough suspending points spread out to hold clamsHELL in any specific orientation needed.
  - Electrode 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 connector per electrode (we have no source yet). The connector will interface between the carbon fiber and wiring to the receptacle that receives the coaxial cable plug.
- NOTE – Very high temp solder (K100) not allowed on U4. The best solder will always be "No Heat SAC305" if you can find it, but you still MUST cleanse gold from pads. Avoid Pb (leaded) solder unless you understand the behavior of eutectics, how Pb ruins other solders, and how gold from ENIG ruins it.

**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.**

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, and main page only, 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.