



NOTE: Diagnostic jumpers are intended to be used as JP1 with JP2 or JP3 with JP4, not all 4 simultaneously. JP 1 and 2 can bypass the software-controllable analog input levels to allow the manual pots to supply them. JP 3 and 4 can bypass the LM334s to verify operation of the MCP4262s which cannot achieve high enough resistances to produce working level voltages on the legs without low R2 and DUT resistances. You'll need to insert such resistances manually...on the order of 10K to 100K with 33K suggested. For boards without these jumpers, JP1 and 2 can be effected by disconnecting LM334 lead 2 and adding a temporary wire from the wiper of a manual pot to lead 3 of that LM334. JP3 and 4 can be effected by disconnecting LM334 lead 2 (without lead 2 in circuit). In either case, the pads 1 and 2 (without lead 2 in circuit). In either case, the LM334 may be removed completely to ensure that lead 2 (middle lead) disconnect. Lead 1 is always marked as square pad and/or silk-screened dot or mark on board. Again, JP3-4 diags need a dummy DUT & an R2 of 33K.

Sheet:1/2

File: uno shield.sch

**Title:** GWAAMC Training Aid Main Board for UNO with MCP4262 HX711 LM334

**Size:** A4 **Date:** 18-04-2019 **(C) Copyright:** Kenneth L. Anderson 2018-2019

**Rev:** KICad E.D.A. kicad 5.1.0-060a0da80ubuntu16.04.1 **Id:** 1/1