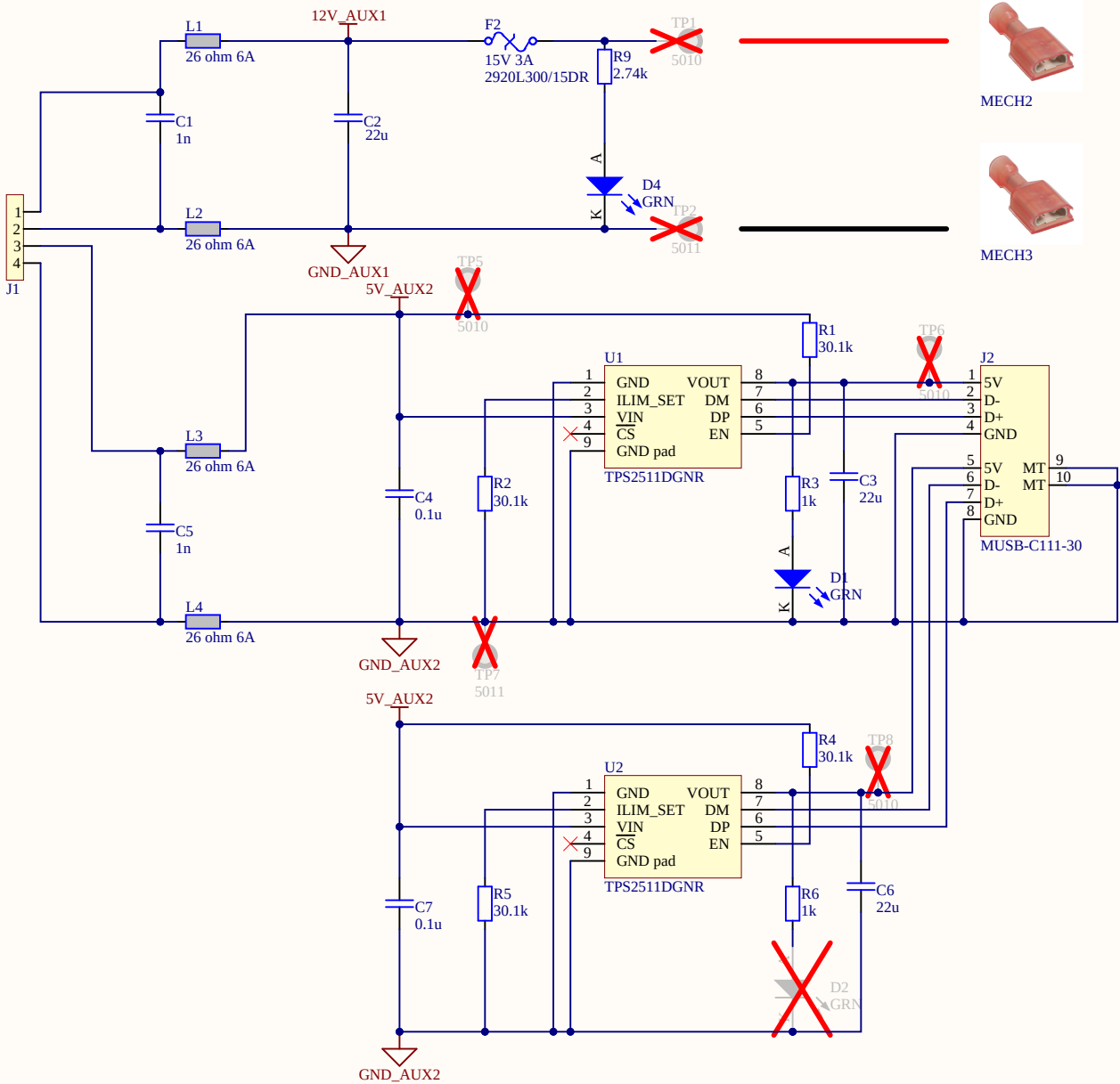
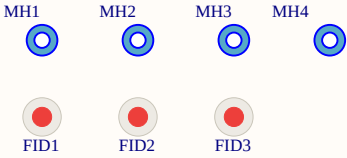




Connect 12V socket MECH4 to PCB with 200mm (8.75") AWG18 wire. Solder one end of wires into TP1 and TP2 as shown, and crimp quick connects MECH2 and MECH3 onto the other end.

Use General Cable C2103A AWG18 16/30 600V or equivalent.

Black at DigiKey:
<https://www.digikey.com/product-detail/en/general-cable-carol-bran-d/C2103A.12.01/C2103B-100-ND/16180>
Red at DigiKey:
<https://www.digikey.com/product-detail/en/general-cable-carol-bran-d/C2103A.12.03/C2103R-100-ND/16188>



MetaFridge Solar Power EHC (Aux.) Board

This is the solar power energy harvesting output board from New Horizons' MetaFridge vaccine refrigerator system and associated technologies. One implementation of this system in a PQS-prequalified vaccine refrigerator is the Aucma CFD-50 SDD. This board holds connectors and is intended to be mounted to the fridge enclosure.

As of 2025-07-30, Tokitae LLC has abandoned any pursuit of patent protection for the MetaFridge system and makes no claim to enforce any patent rights related to this implementation (US patent 10,707,683B2). This dedication ensures that the community can freely use and build upon the system.

Please refer to the description of the motivations and operation of the circuit, which should be part of the materials of the main solar board package. If you did not receive these materials, the whole package may be downloaded from <https://docs.2to8.cc>.

License

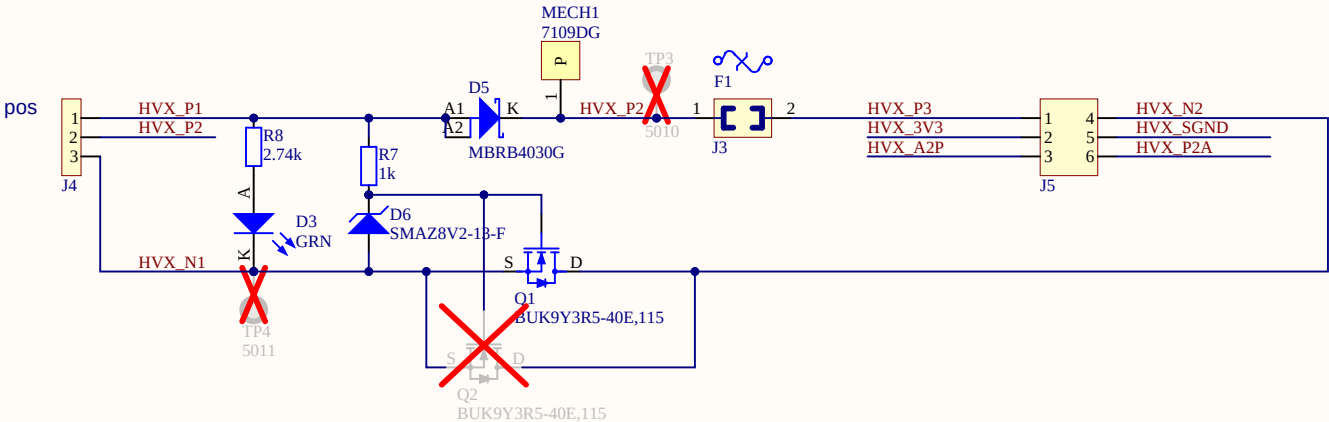
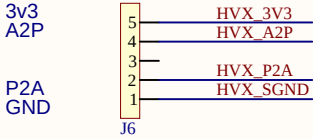
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Change Log:

- Rev. 1.x Preliminary board
Rev. 2.x does not exist.
- Rev. 3.0 First usable version, bumped to 3.x to match solar power board.
Rev. 3.1 Add PTC resettable fuse to 12V output.
Rev. 3.2: Silkscreen changes only.
Rev. 3.2b: add 12V socket and QC so they show up on BOM. (They have been used all along.)
- Rev. 3.3: Documentation only, no boards were built.



Title: MF2 Solar Aux. Output			
Size: B	Sheet: Auxiliary Outputs	Revision: 3.3	
Date: 7/31/2025	Sheet 1 of 1	Drawn by: Rod Hinman	
File: C:\gh\nh\mf-solar-power-board\altium\aux_out\MF2SolarAuxOut.SchDoc			