

14 APR 13
Roderick

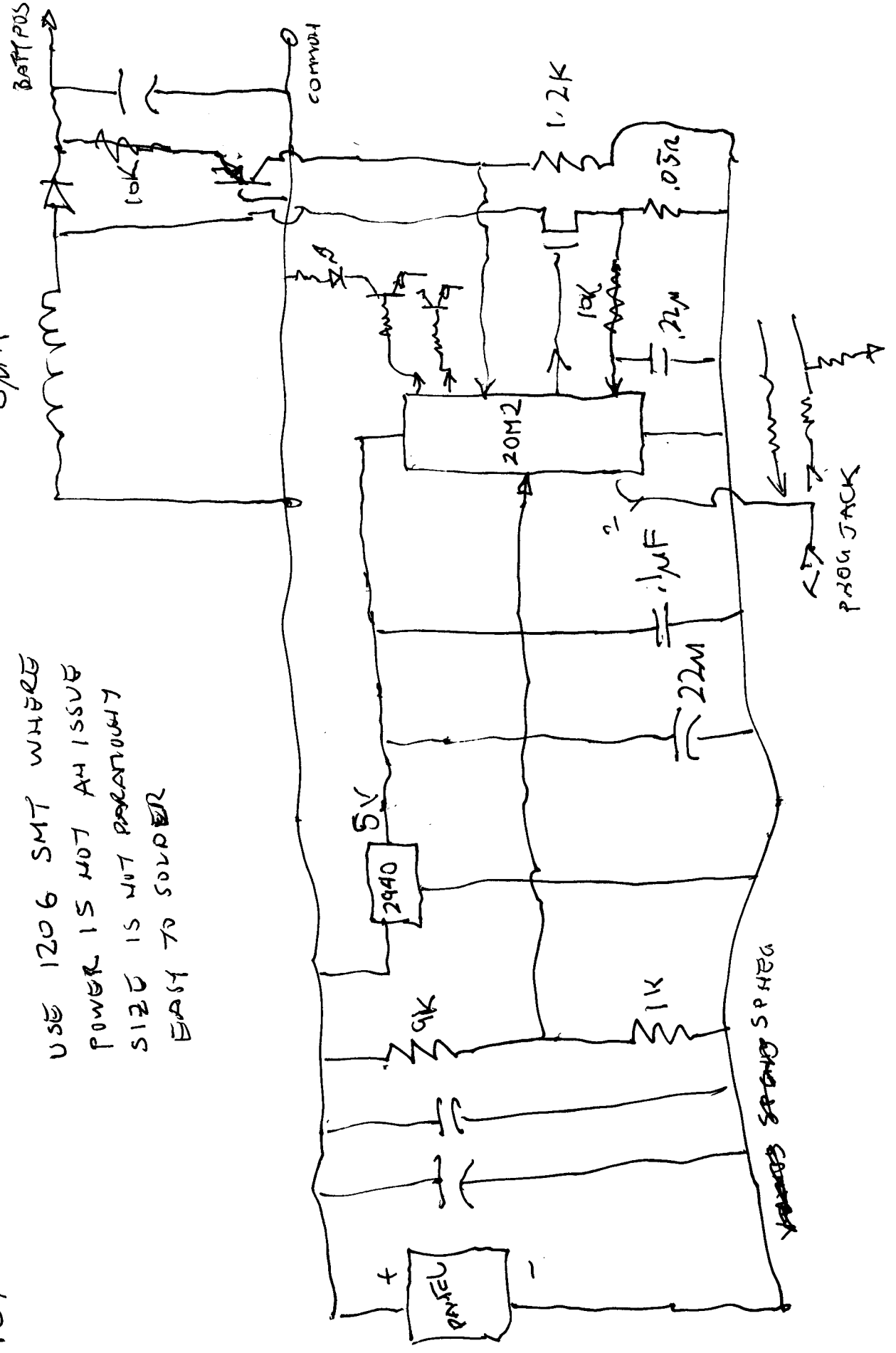
40V → ~~4V~~
SOLAR PANEL
VOLTAGE

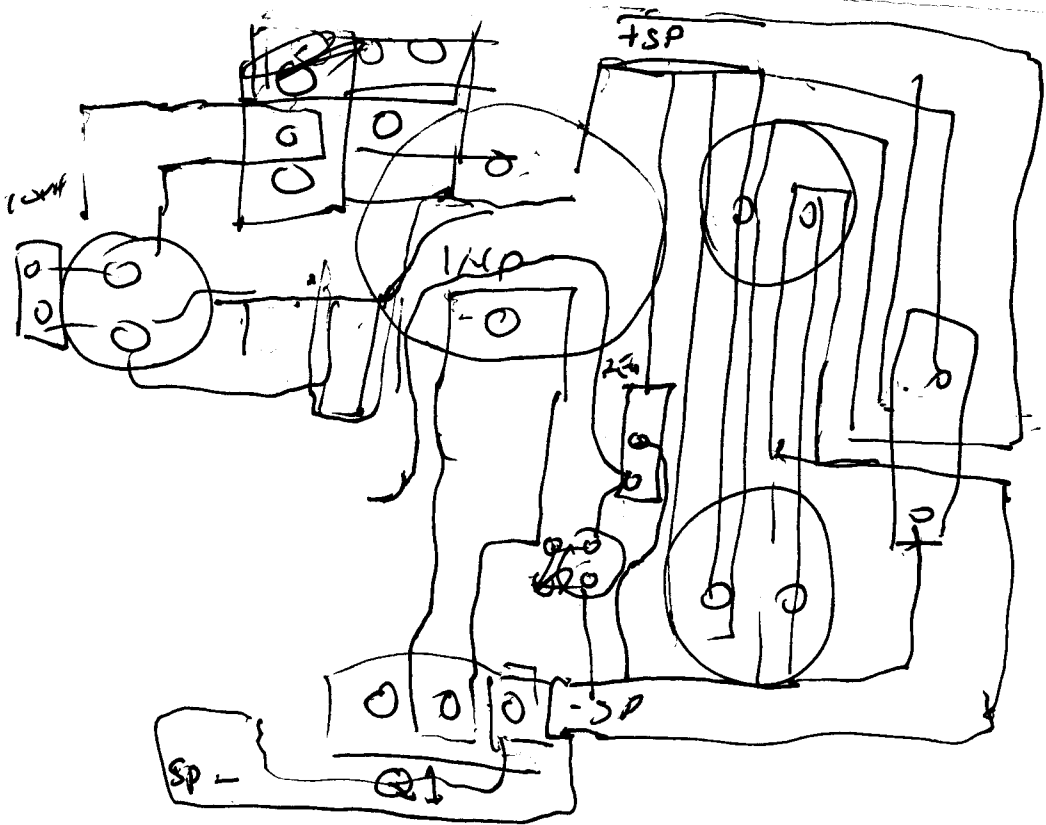
36V → 4V
BATT VOLTAGE

10A → 0.5V

40A SATURATION
8MH

USE 1206 SMT WHERE
POWER IS NOT AN ISSUE
SIZE IS NOT PROBLEM
EASY TO SOLDER





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PTC DESIGN WANTS

- USE COMMON COMPONENTS, OR AT LEAST DESIGN SO THAT COMMON COMPONENTS CAN BE USED. EXAMPLE: ~~WRAP~~ DUAL SCHOTTKY POWER RECTIFIER AT HALTED. SAME PINOUT AS COMMON PART FROM Mouser OR Digi-Key, BUT CHEAP.

- PARALLEL MULTIPLE COMPONENTS IN THE MAIN POWER PATH, FOR BETTER CURRENT, ESPECIALLY STIFFENING CAPS. $2 \times 1000 \mu\text{F}$ INSTEAD OF $1 \times 2000 \mu\text{F}$

- GET 2oz COPPER PC BOARD IF POSSIBLE.

- DESIGN FOR FIELD REPAIRABILITY - 20M2 SHOULD BE SOCKETED. DO NOT SOCKET POWER COMPONENTS, POOR CURRENT FLOW. USE BOARD-TO-WIRE HIGH AMP CONNECTORS FOR POWER, IN CASE NEED TO CHANGE PANEL.

- LOW POWER USE OH 5V, TO AVOID HEAT SINK FOR LINEAR REGULATOR.

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