

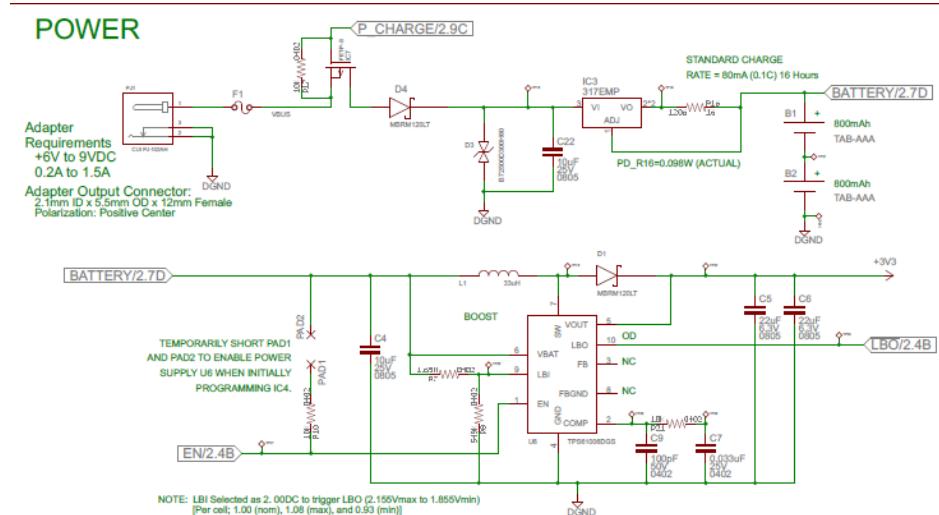
7/5/2017

SafeWorks, LLC
365 Upland Dr.
Seattle, WA 98188

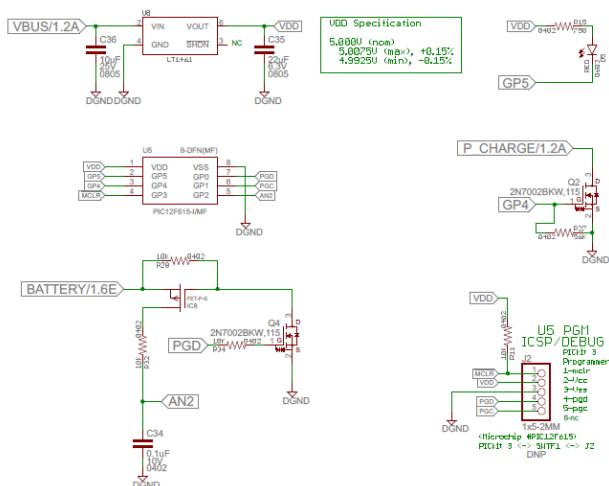
SafeWorks, LLC is seeking a Class II permissive change for model IBEX 1000, FCC ID: W35-1000. The changes are to non-RF components and are electrically similar to the existing design. The changes are to the battery and charging circuit, the directional switch, and an update to the most current version of the microprocessor.

The battery was a 2cell 2.4Vdc 800mAh NiMh. It has been changed to a single cell 3.7Vdc 400mAh LiPo battery. The charging circuit was changed correspondingly. See below for the differences (See Appendix for full schematic)

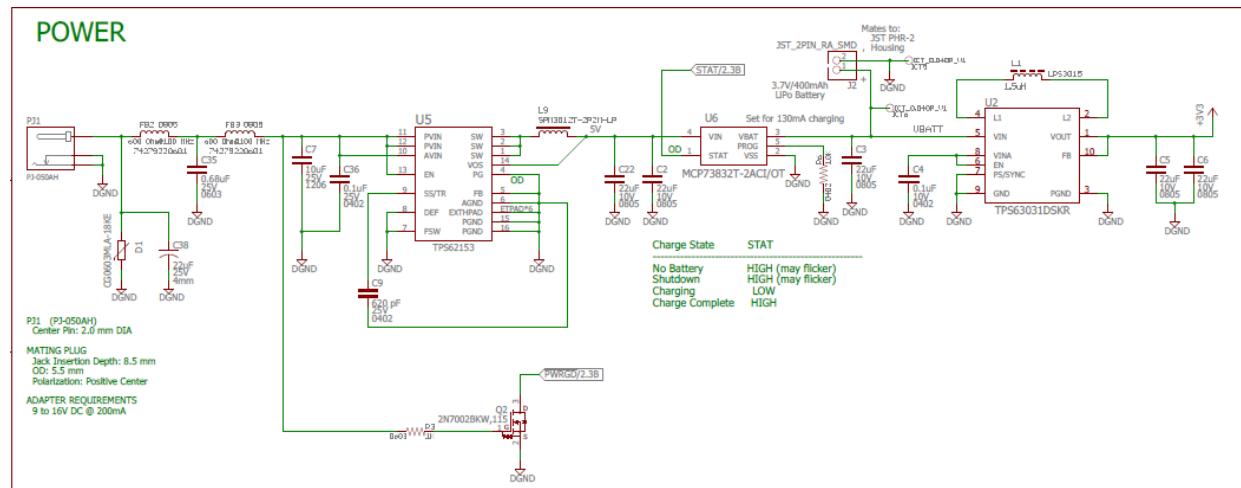
Old Charging Circuit



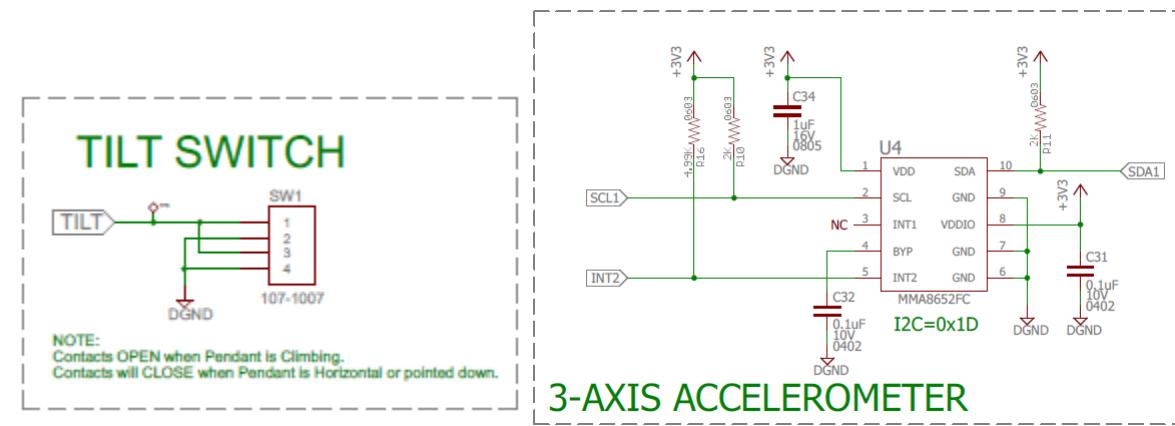
INTERMITTENT TIMER CHARGER



New Charging Circuit



The tilt switch was replaced with a 3-axis accelerometer. See below:



The Microprocessor ATMEGA328-AU was replaced with ATMEGA328PB-AU.

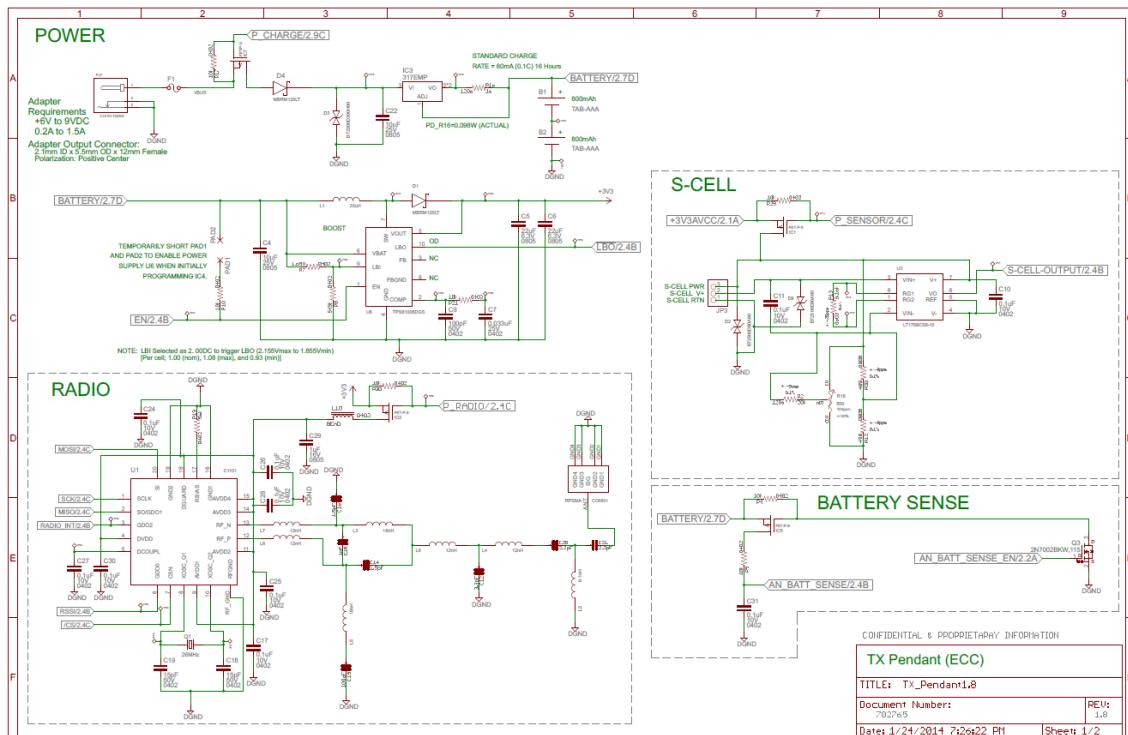
All RF properties have remained unchanged.

Best Regards,

Morgan Knickrehm, PE

Appendix

Old Schematic:



New Schematic:

