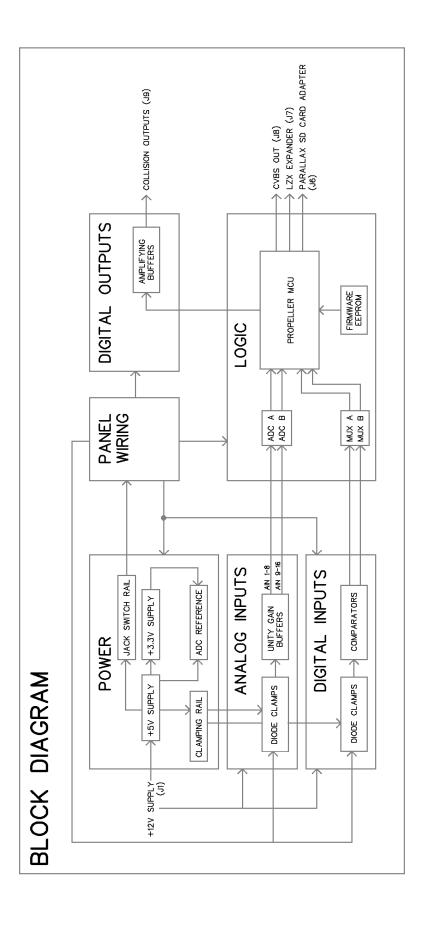
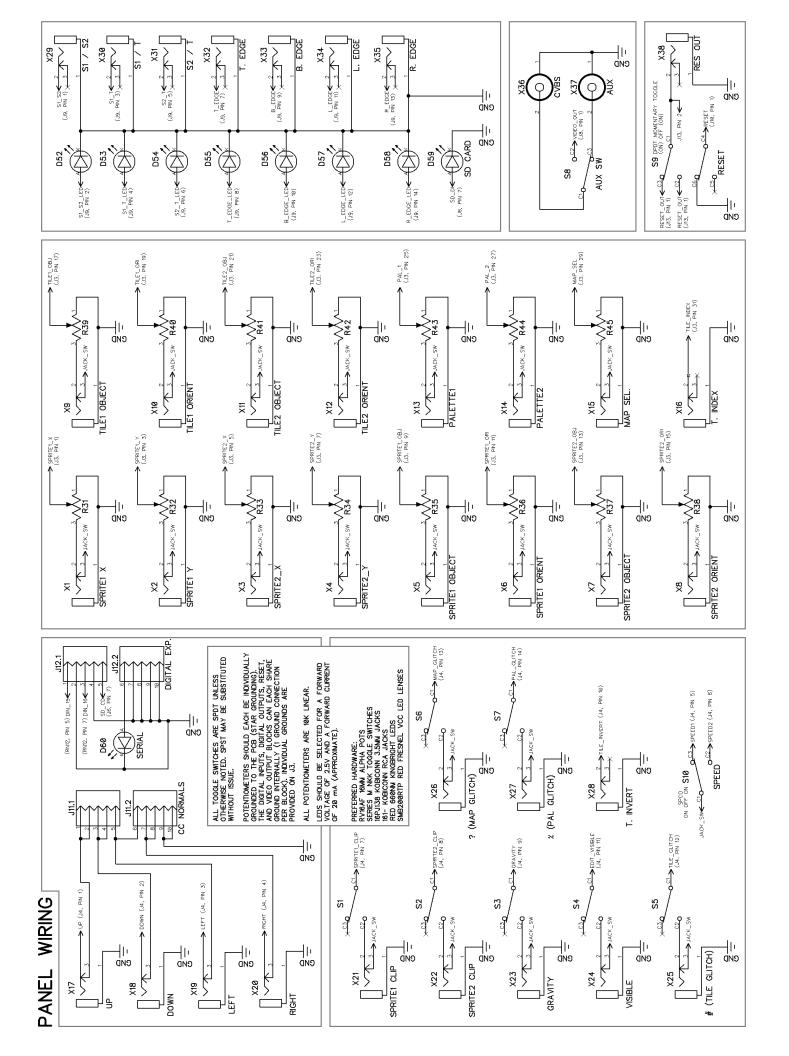
## MING MECCA WORLD CORE DESIGNED BY JORDAN BARTEE IN PROVIDENCE, RI, WINTER 2013







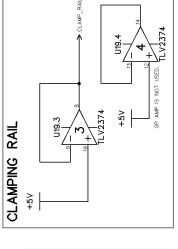
## **POWER**

THE 7866 AND 7833 REGULATORS SHOULD BE HEATSLINK AND RATED FOR AT LEAST 2809 m.m. EACH.

ALL CAPACITORS ARE CERAMC EXCEPT WHERE NOTED.

IN ADDITION TO THE MAIN PSU, SCHEMATICS ARE ALSO SHOWN FOR THE OP AMP AND COMPARATOR SUPPLIES, ADC REFERENCE, THE ABSOLUTE MINIMIA DECOUPLING CONFIGURATION IS SHOWN, CONSISTING OF A SINGLE 18040 CERAMC CAPACITOR PER IC AND A 68MF TANTALUM CAPACITOR PER IC CAPACITOR PER IC BLOCK. ALL ICS IN EACH BLOCK SHOULD BE GROUDED CLOSELY TOGETHER SINCE THEY SHARE THE TANTALUM CAPACITOR. ADDITIONAL DECOUPLING MAY BE NECESSARY DEPENDING ON PCB DESIGN.

GROUND PINS 5 AND 6 ON POWER CONNECTOR JI ARE INTENTIONALLY LEFT UNCONNECTED TO PREVENT DAMAGNG SHORTS FROM OCCURING IF JI IS CONNECTED BACKWARDS DUE TO USER ERROR. PINS 1, 2, AND 13 - 15 ARE ALSO LEFT UNCONNECTED.



+12V

OP AMPS (ANALOG INPUTS)

U16 VDD GND TLV2374

GND TLV2374 U15 199nF

VDD GND TLV2374

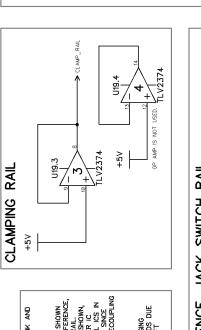
U13 VDD GND TLV2374

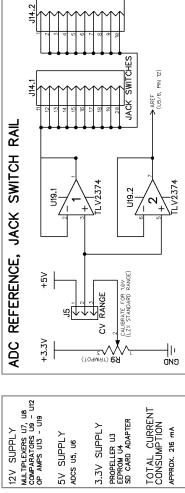
₁| сир

100nF

109nF

189nF

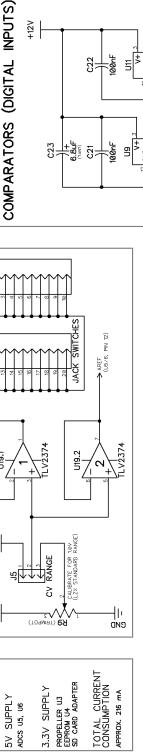


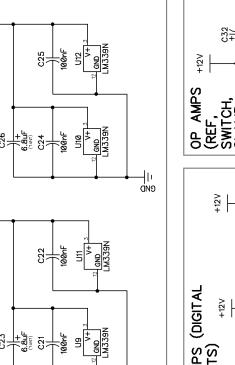


5V SUPPLY ADCS U5, U6

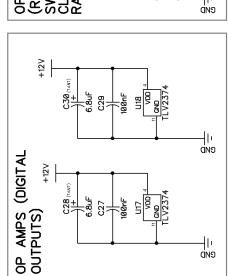
+12V

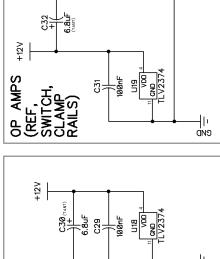
+127

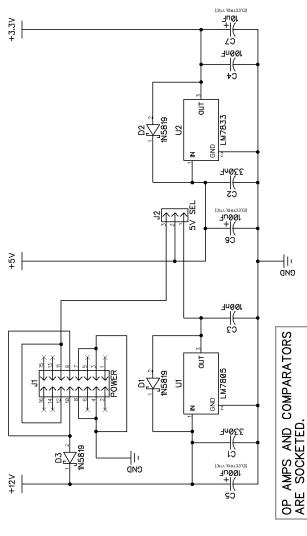




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ON THIS SHEET ARE SOCKETED.

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ALL

