

POWER SUPPLY, ADDRESS DECODING

page 1



page1.sch

CPU/RAM/ROM, RESET, CLOCK

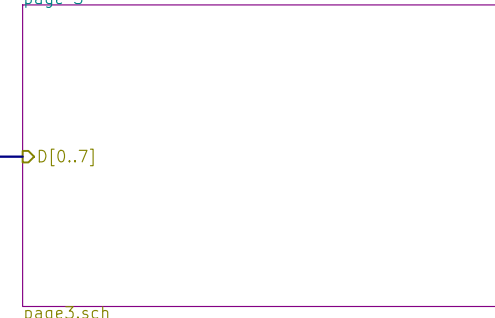
page 2



page2.sch

SERIAL, I/O, AUDIO, REAL TIME CLOCK

page 3



page3.sch

A[0..15]

A[0..15]

D[0..7]

D[0..7]

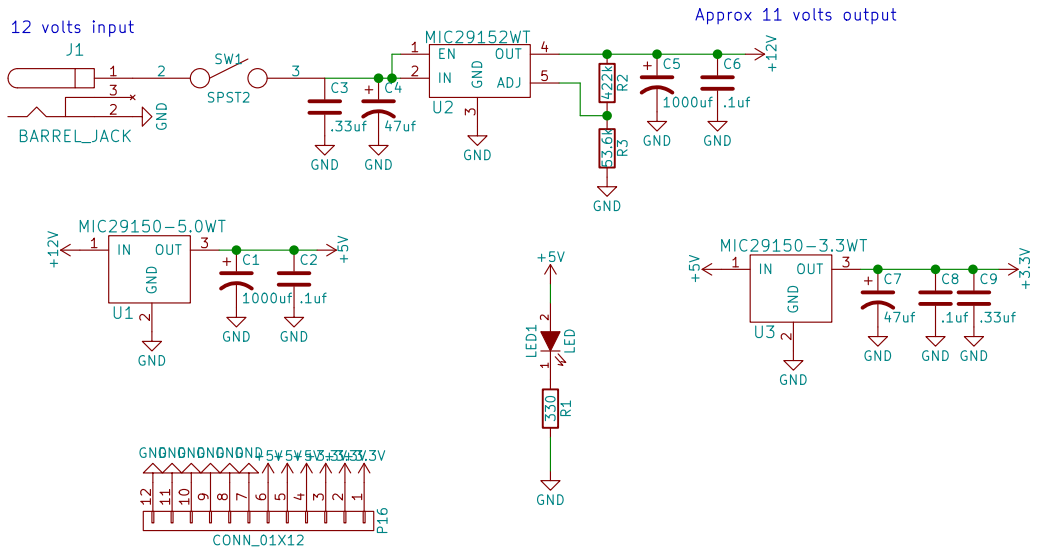
PROPELLER PERIPHERAL I/O

page 4

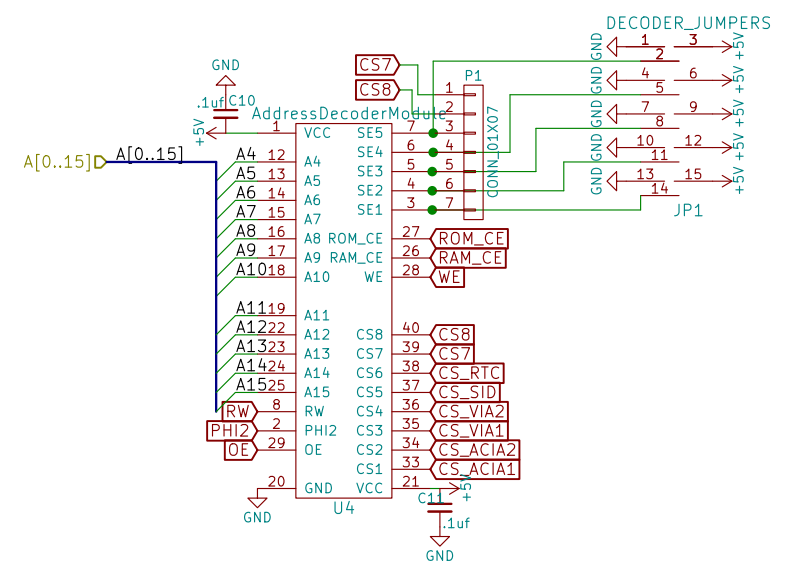


page4.sch

Sheet: /		File: 6502Computer.sch	
<b>Title: 6502 COMPUTER</b>			
Size: A4	Date: 3/22/2016	Rev: 1.A	
KiCad E.D.A. kicad (2017-01-24 revision 0b6147e)-makepkg			Id: 1/5

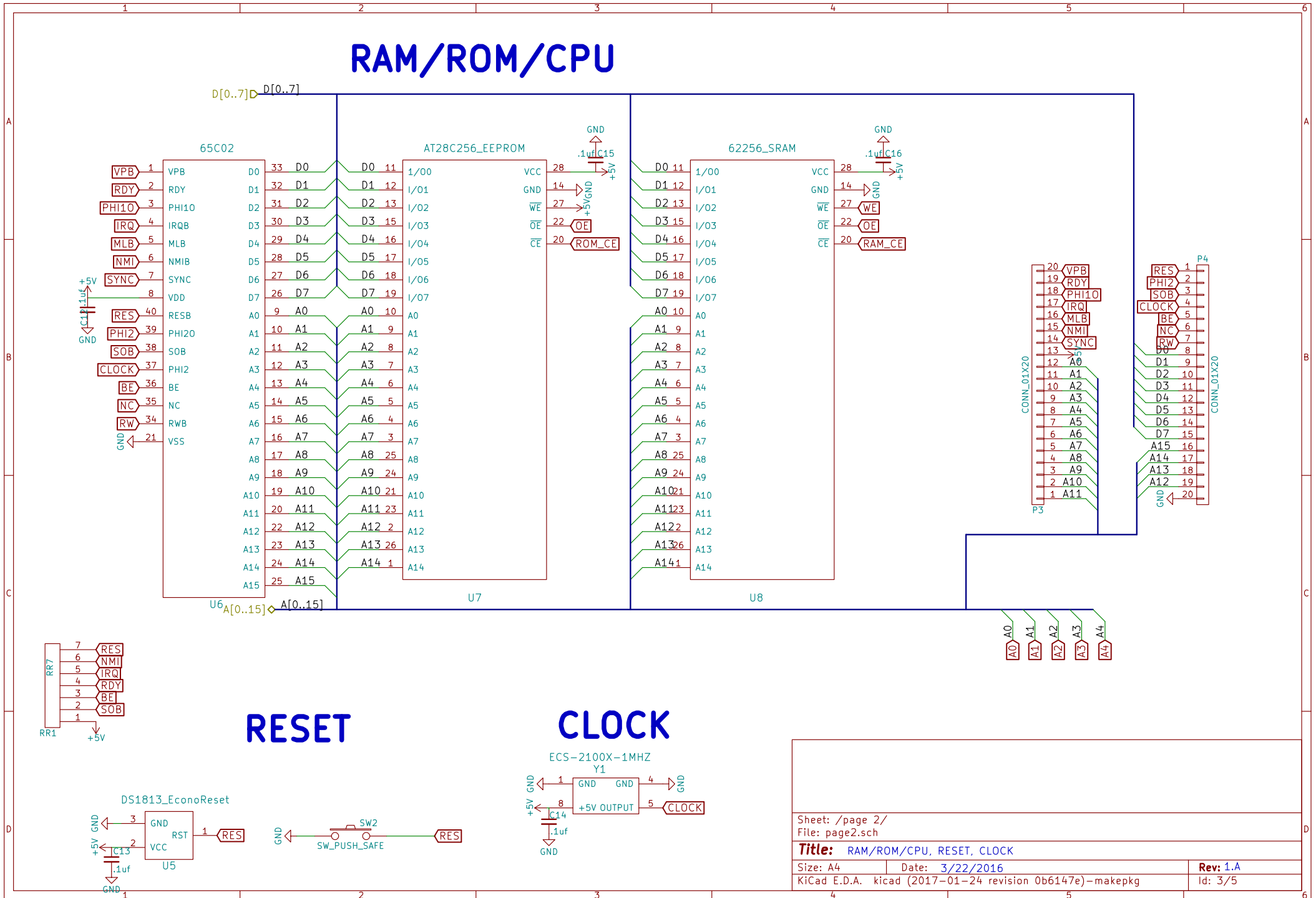


# POWER SUPPLY



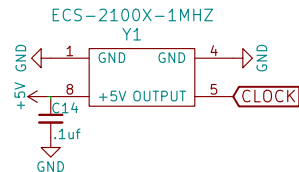
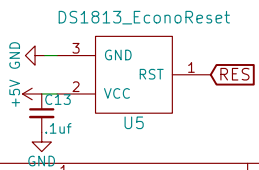
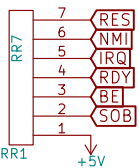
# ADDRESS DECODING

# RAM/ROM/CPU



## RESET

## CLOCK



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File: page2.sch

**Title:** RAM/ROM/CPU, RESET, CLOCK

Size: A4

Date: 3/22/2016

Rev: 1.A

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Note: It seems the DS1813 needs to be close to the power supply to function properly. Seems like the cutoff voltage is right under 5v.

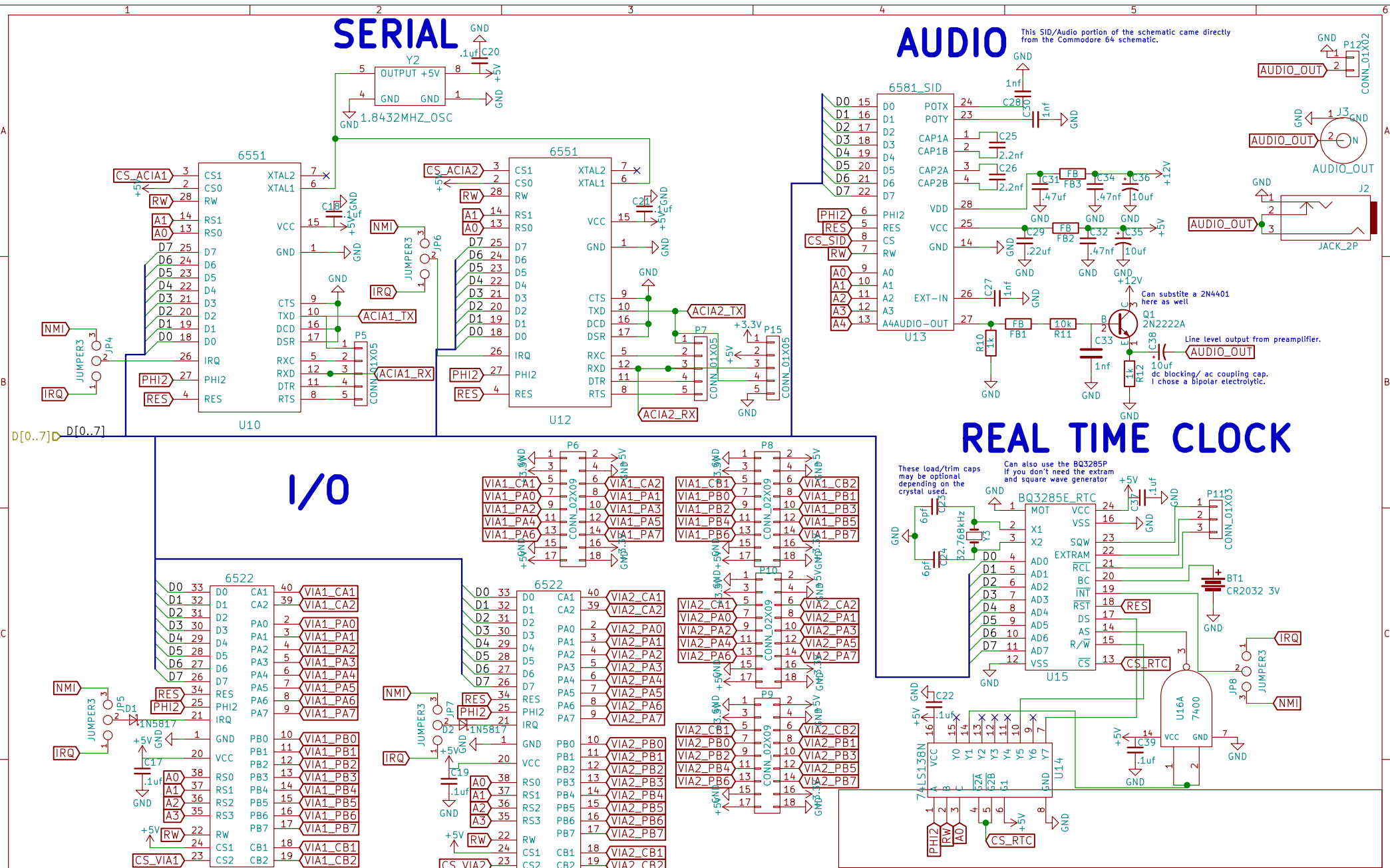
# SERIAL

# AUDIO

This SID/Audio portion of the schematic came directly from the Commodore 64 schematic.

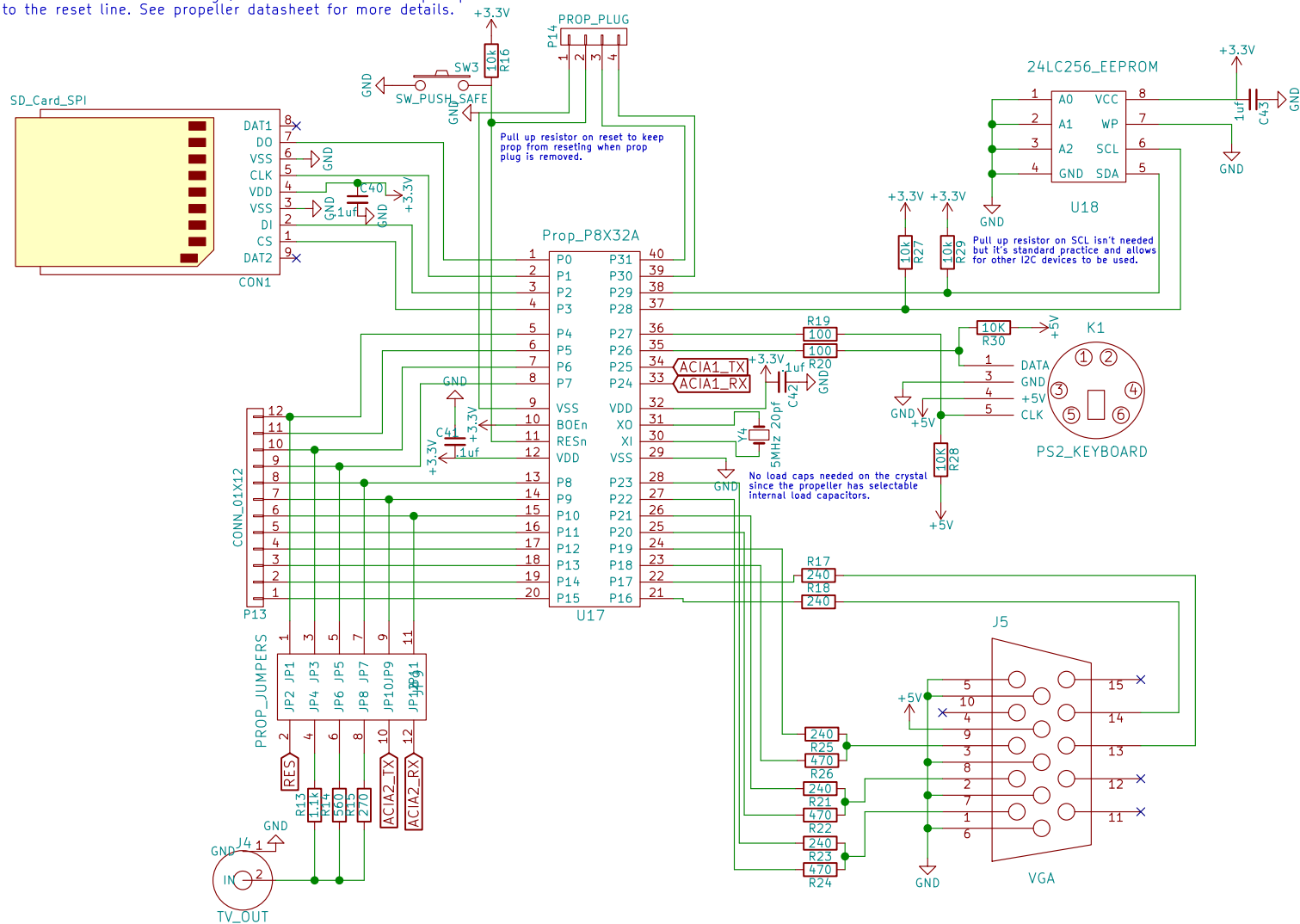
# REAL TIME CLOCK

# I/O



Note: The 1N5817 diodes connected to VIA1 and VIA2s IRQ lines are for the W65C22S device. This allowed it to work with other devices where the IRQ is an open drain. If using an NMOS or 265C22N you can just use a jumper instead of a schotky diode here.

Note: I chose to tie BOEn (Brown Out Enable) high instead of low on the propeller to disable the brown out functionality. I did this since I wanted the use of a reset button, and I didn't want to worry about interference from the SID chip causing wonky reset behavior with the propeller. Since BOEn is tied high, I needed to add a 10k pullup resistor to the reset line. See propeller datasheet for more details.



# PROPELLER PERIPHERAL I/O

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<b>Title:</b> PROPELLER PERIPHERAL I/O			
Size: A4	Date: 3/22/2016	Rev: 1.A	
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