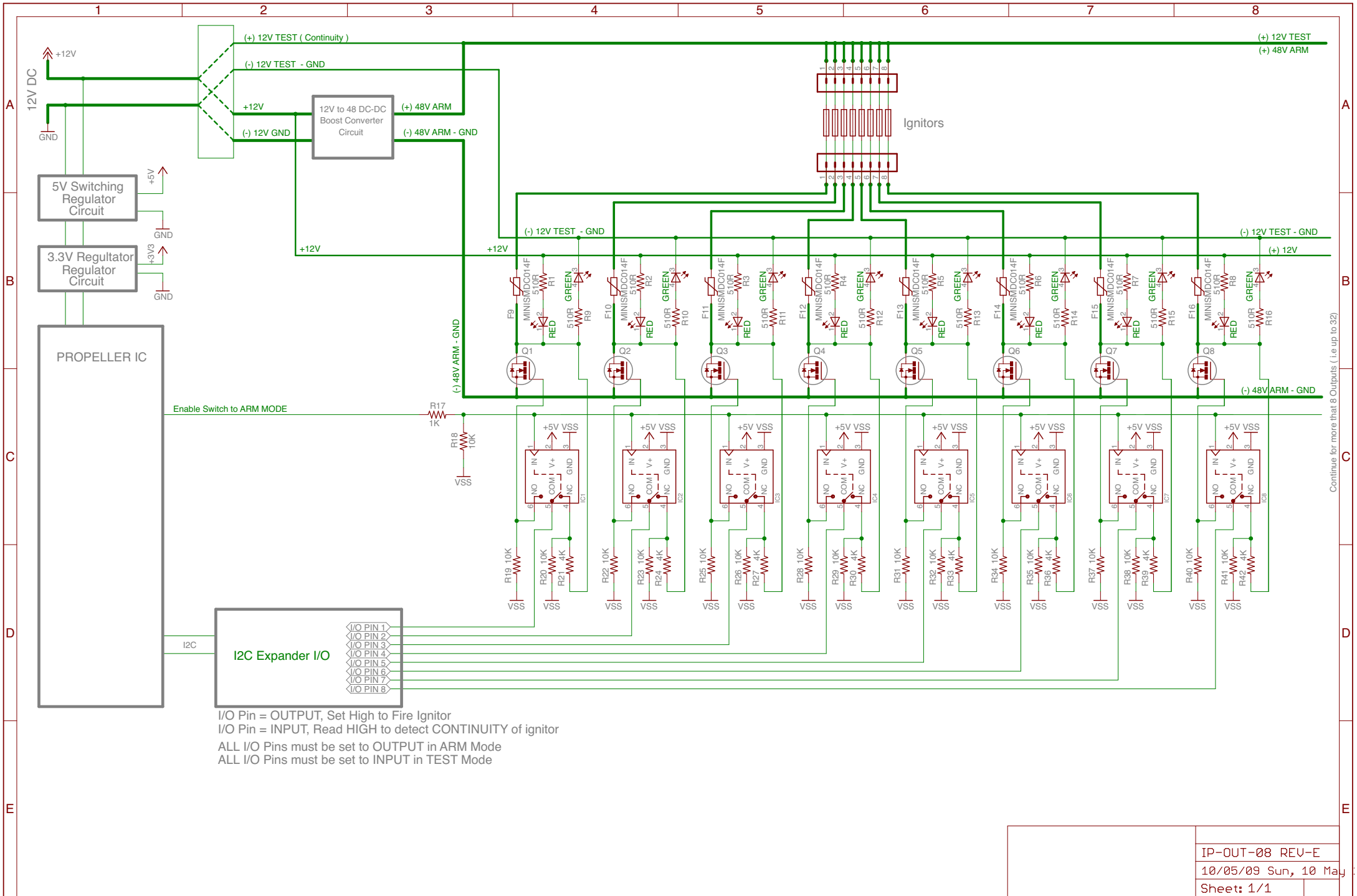
12V DC
+12V
GND
(+) 12V TEST (Continuity)
(-) 12V TEST - GND
+12V
(-) 12V GND
12V to 48 DC-DC Boost Converter Circuit
(+) 48V ARM
(-) 48V ARM - GND
(+) 12V TEST
(+) 48V ARM
Ignitors
5V Switching Regulator Circuit
+5V
3.3V Regultator Regulator Circuit
+3V3
(-) 12V TEST - GND
(+) 12V
(-) 48V ARM - GND
PROPELLER IC
Enable Switch to ARM MODE
R17 1K
R18 10K
VSS
I2C
I2C Expander I/O
I/O PIN 1
I/O PIN 2
I/O PIN 3
I/O PIN 4
I/O PIN 5
I/O PIN 6
I/O PIN 7
I/O PIN 8
MINISMDC014F
510R
GREEN
RED
+5V VSS
IN
V+
GND
NO
COM
NC
10K
4K
Q1
Q2
Q3
Q4
Q5
Q6
Q7
Q8
Continue for more that 8 Outputs (i.e up to 32)
I/O Pin = OUTPUT, Set High to Fire Ignitor
I/O Pin = INPUT, Read HIGH to detect CONTINUITY of ignitor
ALL I/O Pins must be set to OUTPUT in ARM Mode
ALL I/O Pins must be set to INPUT in TEST Mode
IP-OUT-08 REV-E
10/05/09 Sun, 10 May
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