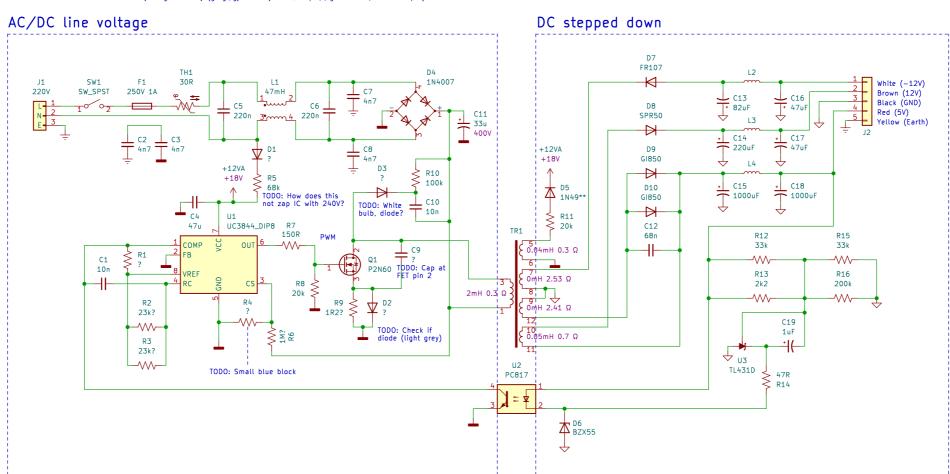
$Based \ on \ the \ A500 \ PSU \ schematic \ by \ Greg \ McCarthy \ (greg@gjmccarthy.co.uk, \ https://github.com/StormTrooper)$



Test of known good working PSU AC current measurements under load Tested on 240 VAC with dim bulb limiter Ticking sound under no load is normal

5 VDC	12 VDC	240 VA			
0.00 A 4.90 V	0 mA 16.00 V	31 mA			
0.00 A 5.10 V	70 mA 10.96 V	37 mA			
1.00 A 4.99 V 1.45 A 4.93 V	70 mA 11.89 V 70 mA 12.10 V	68 mA			
3.00 A 4.70 V	70 mA 12.60 V	180 m/			

Test of known good working UC3844 PWM IC Pin 6 (OUT) Load on 5V output

1	Duty	Period	V max
0 mA	7.0%	i 276 ms	i 18.0 \
28 mA	4.0%	25 us	12.2 \
1.0 A	9.5%	25 us	14.8 \
3.0 A	15.0%	i 25 us	i 16.4 \
6.0 A	20.0%	25 us	19.0 \

P2N60 alternatives

GDS 600 V 2.9 A 70 W RDS(on) < 3.5 ohm Vgs +/- 20 V STP4NK60Z (4 A) STP5NK60Z (5 A) IRFBC30PBF (3.6A)

2: 0 V 3: 1 V pulse after 1 s 4: 3 V 69 kHz (15 us) signal after 600 ms 5: 0 V 6: 13 V PWM 7: 16 V linear charge over 600 ms, drops to 11 V 8: 5.4 V after 600 ms



P-No: 391029-02 Board: 30501-001 A Rating: UK 220-240 V 300 mA Based on the A500 PSU schematic by Greg McCarthy

Nick Bolton

Sheet: / File: a1200-psu.kicad_sch Title: Amiga A1200 PSU (UK)

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