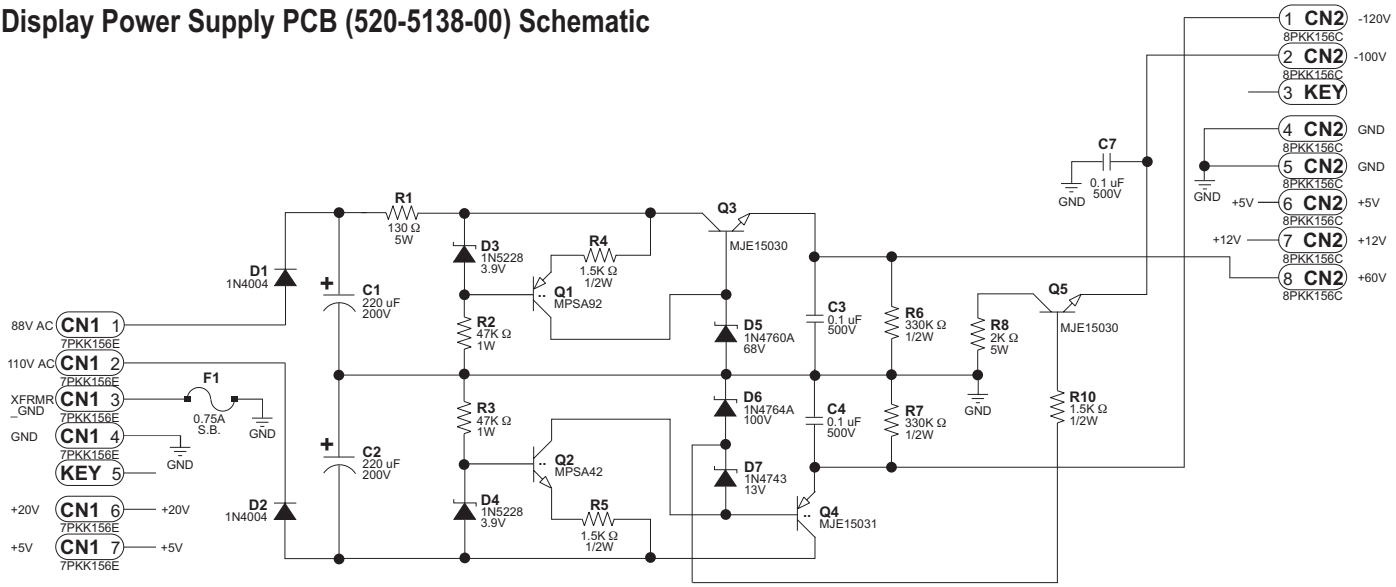
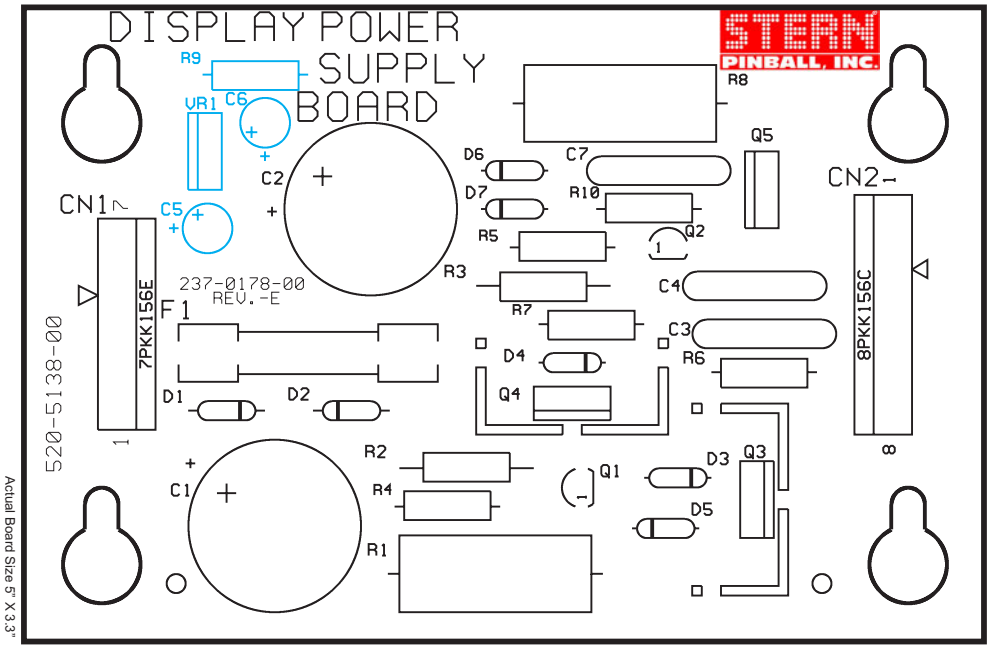
## Display Power Supply PCB (520-5138-00) Schematic




## Display Power Supply PCB (520-5138-00) Component Layout & Parts




Actual Board Size 5" X 3.3"

| ITEM | QTY | PART NUMBER | REF-DESIGNATOR | DESCRIPTION (NS = Not Stuffed) |
|---|---|---|---|---|
| — | 1 | **520-5138-00** | **Display Power Supply PCB** | *(includes Items **1-2** + **4-24**)* |
| 1 | 2 | 125-5044-00 | C1, C2 | 220uF, 200v, Radial Lytic Cap. |
| 2 | 3 | 125-5035-00 | C3, C4, C7 | 0.1uF, 500v, Ceramic Disk Cap. |
| 3 | 0 | 125-5003-00 | (C5, C6: NS) | 22uF, 35v, Rad Lytic Cap |
| 4 | 1 | 045-5015-07 | CN1 | 7PKK156E (PIN5=KEY) |
| 5 | 1 | 045-5015-08 | CN2 | 8PKK156 (PIN3=KEY) |
| 6 | 2 | 112-5003-00 | D1, D2 | 1N4004, Diode |
| 7 | 2 | 112-0053-00 | D3, D4 | 1N5228, 3.9v, Diode |
| 8 | 1 | 112-0062-00 | D5 | 1N4760A, 68v, Diode |
| 9 | 1 | 112-0049-00A | D6 | 1N4764A, 100v, Diode |
| 10 | 1 | 112-0061-00 | D7 | 1N4743, 13v, Diode |
| 11 | 1 | 200-5000-17 | F1 | 3/4A (0.75A) S.B. Fuse |
| 12 | 2 | 205-0004-00 | F1 | Fuse Clip |
| 13 | 1 | 110-0100-00 | Q1 | MPSA92, Transistor |
| 14 | 1 | 110-0082-00 | Q2 | MPSA42, Transistor |
| 15 | 2 | 110-0101-00 | Q3, Q5 | MJE15030, Transistor |
| 16 | 2 | 535-5000-11 | Q3, Q4 | Heatsinks - AAVID #563002 |
| 17 | 2 | 240-5008-00 | Q3, Q4 | #6-32 KEPS Nut |
| 18 | 2 | 237-5501-00 | Q3, Q4 | #6-32 X 3/8" PPH Screw |
| 19 | 1 | 110-0103-00 | Q4 | MJE15031, Transistor |
| 20 | 1 | 121-5061-00 | R1 | 130 Ω Resistor SMT, 5W |
| 21 | 2 | 121-5060-00 | R2, R3 | 47K Ω Resistor SMT, 1W |
| 22 | 3 | 121-5038-00 | R4, R5, R10 | 1.5K Ω Resistor SMT, 1/2W (R9: NS) |
| 23 | 2 | 121-5059-00 | R6, R7 | 330K Ω Resistor SMT, 1/2W |
| 24 | 1 | 121-5062-00 | R8 | 2K Ω Resistor SMT, 5W |
| 25 | 0 | 124-5003-00 | (VR1: NS) | 7812CT |