

Peter Chou (U-San Electron Co., Ltd.)
XT Computer Style Power Supply with built-in power switch
Model USP-11-150X (Level 3)

CAPKIT

C24 4,700 uf @ 16 volts
C25 2,200 uf @ 16 volts
C28 2,200 uf @ 16 volts
C26 470 uf @ 25 volts
C29 22 uf @ 25 volts
C18 4.7 uf @ 50 volts
C14 1 uf @ 50 volts
C16 4.7 uf @ 50 volts
C17 47 uf @ 50 volts
C15 10 uf @ 50 volts
C27 1 uf @ 50 volts
C9 1 uf @ 50 volts
C10 1 uf @ 50 volts
C5 330 uf @ 200 volts (main filter, replace only if needed)
C6 330 uf @ 200 volts (main filter, replace only if needed)

OTHER PARTS TO CHECK

Fuse: 3 amp fast blo, 5mm x 20 mm (Radio Shack # 270-1054)
Q1: Transistor, # C3277 (NTE 2308)
Q2: Transistor, # C3277 (NTE 2308)
FD1: Dual Diode, # CTB-34 (NTE 6090)
FD2: Fast Diode, # STPR10 (NTE 597)
BR1: Bridge Rectifier, # KBP206G (NTE 169)
IC1: Integrated Circuit, KA7500B or TL494CN (NTE 1729)
IC2: Integrated Circuit, LM339N (NTE 834)
IC3: Voltage Regulator, -5 volt, 1 amp, # 7905CV (NTE 961)
R2: Resistor, 150 k ohm, 1/2 watt
R3: Resistor, 150 k ohm, 1/2 watt

NOTE: Use schematic for model UK11-150U to troubleshoot this power supply. It was available to download free from Randy Fromm's website (www.randyfromm.com), but it no longer appears to be there. It may be in the pay portion of his site. If power supply appears dead, check resistors R6 and R11 to see if they've gone open. Both are 270 k ohm, 1/2 watt and are located near the main switching transistors.

FAN INFORMATION

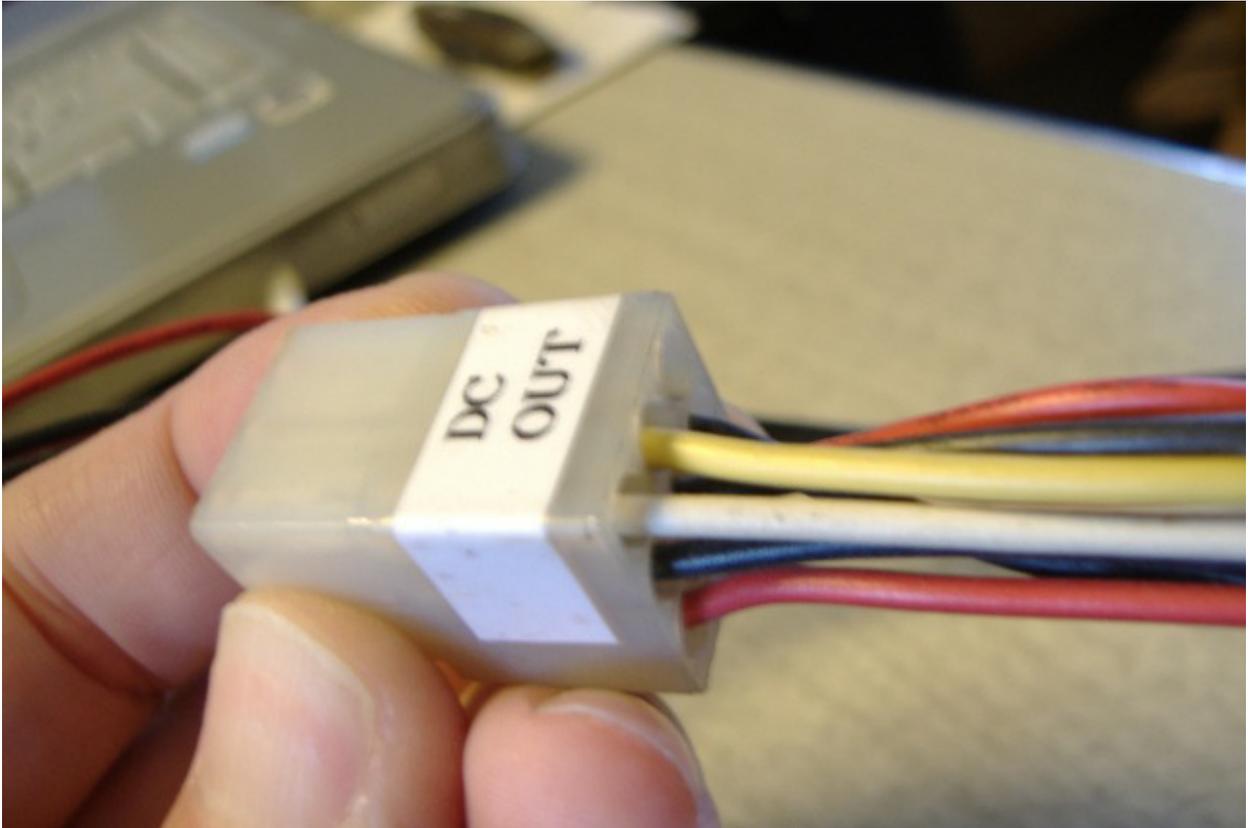
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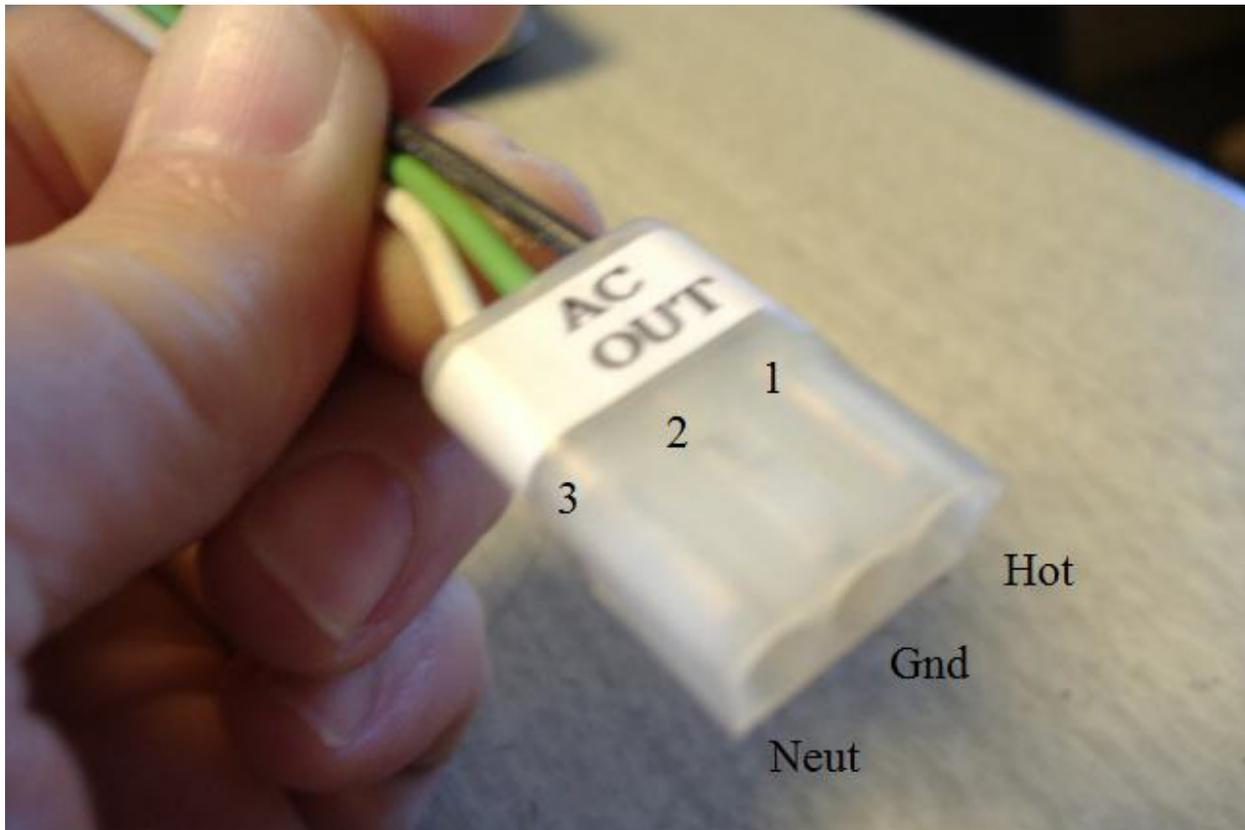
Fan is an 80mm square 12 VDC type. You can use Radio Shack # 273-243 or Jameco # 16993CH as a replacement.



A

The DC output connector is a 9 pin Molex.





The AC output connector is intended to feed 120 volts AC out to the cabinet to operate the marquee light fixture, monitor isolation transformer, and dollar bill acceptor (if equipped). This connector is controlled by the power switch.

CONNECTOR WIRING:

9 Pin - DC Output

- Pin 1-3 • +5V
- Pin 4-6 • GND
- Pin 7 • -5V
- Pin 8 • +12V
- Pin 9 • Not Used

3 Pin - AC Output

- Pin 1 • AC Line
- Pin 2 • Ground
- Pin 3 • AC Neutral

4 Pin - AC Switch

Connect Pin 1 to 3
and Pin 2 to 4 for
Power On.