



NETRONICS RESEARCH  
AND DEVELOPMENT LIMITED  
333 LITCHFIELD ROAD (RTE. 202)  
NEW MILFORD, CONNECTICUT 06776

## ASSEMBLY INSTRUCTIONS

### POWER SUPPLY AP-1

#### SPECIFICATIONS

1. Output voltages: +8, -8, and 20V/PP AC, (7V RMS)
2. Output current: 5 Amp combined max.
3. Output voltage selector switches allow for adjustment of output voltage to accomodate both line and load conditions.
4. Fuse: 1.0 Amp.

#### CAUTION

1. Do not operate without a load connected.
2. Set voltage selector switches to low before connecting to power source.
3. Adjust DC voltage out to +7.5 to +8.5V DC.

Before proceeding with assembly check your kit against the following parts list.

#### DESCRIPTION

#### QUANTITY

Power Transformer	1
25 Amp Rectifier (cube with 4 lugs)	1
Line Cord 3'	1
Line Cord Strain Relief	1
Fuse Holder With Nut	1
Fuse 1 Amp	1
Slide Switch DPDT	3
10,000uf Capacitor	2
470uf Capacitor	1
470 ohm Resistor $\frac{1}{4}$ Watt (yellow, violet, brown)	2
6 Lug Terminal Strip	1
Chassis	1
Cover	1
Screw #6 Type A (self tapping)	6
Screw 6/32 x 3/8	8
Screw 6/32 x 3/4	1
Nut #6/32	9
Lockwasher	2
Rubber Feet	4
Assembly Instructions	1

#### CHASSIS ASSEMBLY

- (✓) 1. Mount the 6 lug terminal strip using 2 #6 Type A (self tapping) screws. Make sure that the lugs face as shown.
- (✓) 2. Mount the power transformer, as shown, using 2 #6/32 x 3/8 screws, lockwasher and nuts.
- (✓) 3. Install the line cord into the strain relief (allow 3" between end of cord and strain relief). Crimp the line cord between the two holders of the strain relief and insert it into the chassis as shown.

## CHASSIS ASSEMBLY (Continued)

- (✓) 4. Mount the 3 slide switches S1,2,3. Use 6/32 x 3/8 screws and nuts.
- (✓) 5. Mount the fuse holder in the hole provided, as shown, and install 1 Amp fuse.
- (✓) 6. Mount the 25 Amp rectifier assembly. Note the key lug must be positioned as shown. Use 6/32 x 3/4 screw and nut.

## WIRING

Note: Cut leads on transformer for neat assembly. (Save remaining leads for interconnections).

- (✓) 1. Connect one side of the line cord to the center lug on the fuse holder. Solder.
- (✓) 2. Connect the other side of the line cord to S-2 lug #2, as shown. Solder.
- (✓) 3. Connect violet transformer lead to S1 lug #1 as shown. Solder.
- (✓) 4. Connect red transformer lead to S1 lug #3. Solder.
- (✓) 5. Connect blue transformer lead to S3 lug #1. Solder.
- (✓) 6. Connect gray transformer lead to S3 lug #3. Solder.
- (✓) 7. Connect brown transformer lead to the remaining free lug on the fuse holder. Solder.
- (✓) 8. Connect one of the black transformer leads to a lug marked AC #1 on the 25 Amp rectifier. See illustration. Do not solder.
- (✓) 9. Connect the other black transformer lead to the lug marked AC #2 on the 25 Amp rectifier. Solder.
- (✓) 10. Mount C1, as shown, wrap leads around lugs. Do not solder.
- (✓) 11. Mount C2, as shown, wrap leads around lugs. Do not solder.
- (✓) 12. Connect the white transformer lead to terminal strip lug #4. Do not solder.
- (✓) 13. Connect a lead between the AC #1 lug on the 25 Amp rectifier and terminal strip lug #2. Solder.
- (✓) 14. Connect a lead between the + output lug on the 25 Amp rectifier and terminal strip lug #6. Solder lug on rectifier only.
- (✓) 15. Connect a lead between terminal strip lug #1 and #4. Do not solder.
- (✓) 16. Connect a lead between terminal strip lug #4 and #5. Solder terminal #4 only.



NETRONICS RESEARCH AND DEVELOPMENT LIMITED  
333 LITCHFIELD ROAD (RTE. 202) NEW MILFORD, CONNECTICUT 06776  
(203) 354-9375

#### CHASSIS ASSEMBLY (Continued)

- (✓) 17. Install R1 and R2, as shown. Solder terminal strip lugs #1 and #6.
- (✓) 18. Connect C3, as shown. Note polarity. Solder terminal #5.
- (✓) 19. Connect a lead between the (-) terminal on the 25 Amp rectifier and terminal strip #3. Solder.
- (✓) 20. Connect an insulated lead between S1 lug #2 and S2 lug #3. Solder.
- ( ) 21. Connect an insulated lead between S2 lug #1 and S3 lug #2. Solder.
- ( ) 22. Mount the rubber feet on the bottom corners of the chassis bottom.

Check all wiring carefully. Check for shorts between adjacent lugs. Make sure that all AC wires on S1, S2, S3 and the fuse post are carefully soldered, and that no frayed leads are touching the chassis or adjacent lugs.

- ( ) 23. Connect to AC and suitable load. Set all voltage selector switches down.
- ( ) 24. Measure voltage at +8V terminal and adjust switches for +7.5 to +8.5V DC.

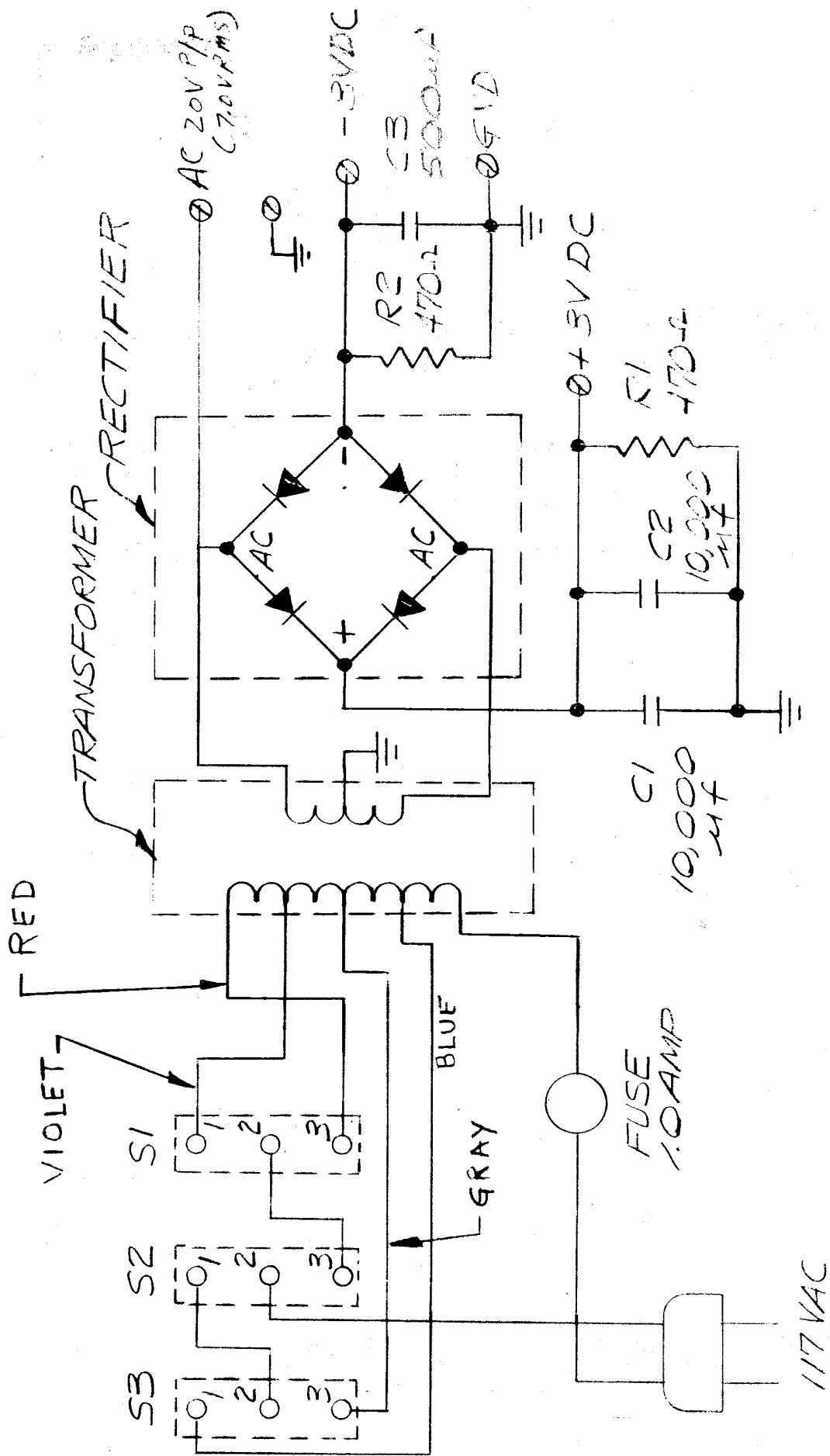
#### WARRANTY

All of the components supplied in this kit are under warranty for six months from date of purchase. Any parts suspected to be defective should be returned to Netronics with \$1.00 for postage and handling. They will be tested and returned postpaid.

#### IN CASE OF DIFFICULTY

In the event of difficulty check all wiring against the instructions. Check for solder bridges and all component values. If you still cannot determine the problem, return the unit. Please enclose a check or money order for \$6.50, pack securely and insure the parcel. Your unit will be tested and returned insured and postpaid.

If you suspect a defective component, return the component with \$1.00 to cover postage and handling and we will test and return the component prepaid and insured. Mailing address: NETRONICS RESEARCH & DEVELOPMENT LIMITED, 333 Litchfield Road, Route 202, New Milford, Connecticut 06776, Attention: Service Department.



1. Position Heyco on wire  
2. Squeeze pliers  
3. Push Heyco into chassis hole

