

Installation Instructions For AC-4 Upgrade Board

First of all you will need 4 #6 screws and 12 nuts, 2 nuts on each screw to serve as stand offs and the other one on each screw to secure the board. Remove all the old caps and the barrier strips noting the colors of the wires in case they don't match the ones in the layout diagram, Place the board in the bottom of the chassis before you populate it and drill the mounting holes. If you ordered the fully assembled boards then use one of the board diagrams as a stencil to drill the mounting holes. Then take board back out of the chassis and populate it with the parts. In the previous step the holes where all the wires come up through the chassis. There are three of these holes for that purpose. There are notations in the text on the layout diagram showing which pad and which wires to solder to it. There is also text showing where jumpers are needed to connect SW1, R6, and the fuse holder to the board. If your Supply does not have the switch SW1 then use the board layout diagram marked without switch to see the wire and jumper connections. All the caps go in from the opposite side of the board from the traces, and all the rest of the parts go in from the trace side of the board spaced a little off the board so they can breathe, This makes them easier to solder. Once you get the board populated place it back in the chassis, you may have to file or trim some of hole so the caps will fit through as I didn't get a chance to actually install one, then solder all the wires in place. This completes the installation of the board. If you have any questions call us at (903)-873-3135 or Email us at wk5r@wk5r.org.

without Switch (SW1)

Pins: 1, 2, 3 are Closest to Bottom Cover of Supply

Pad 1: No Connection
Pad 2: No Connection

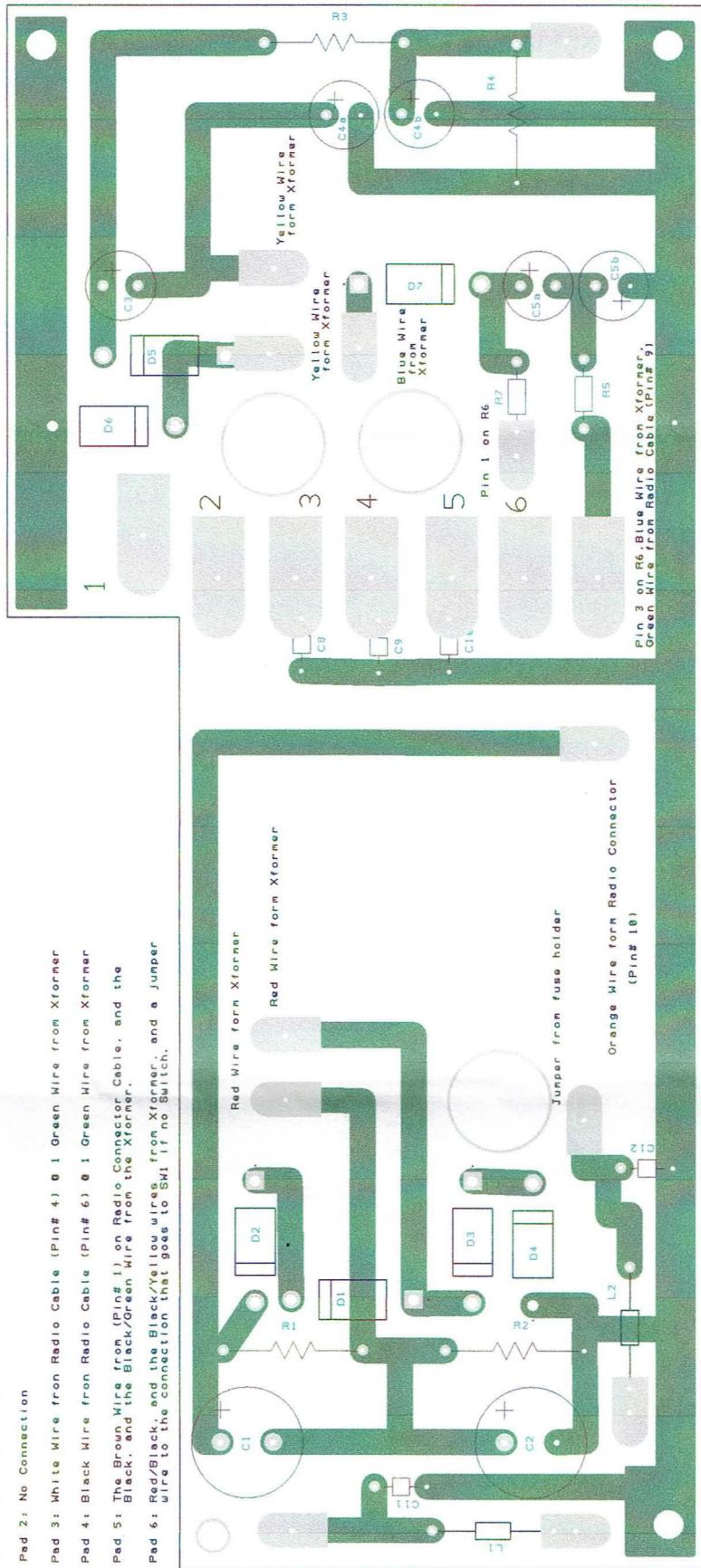
Pad 3: White Wire from Radio Cable (Pin# 4) 0 1 Green Wire from Xformer

Pad 4: Black Wire from Radio Cable (Pin# 6) 0 1 Green Wire from Xformer

Pad 5: The Brown Wire from (Pin# 1) on Radio Connector Cable, and the Black, and the Black/Green Wire from the Xformer.

Pad 6: Red/Black, and the Black/Yellow wires from Xformer, and a Jumper wire to the connection that goes to SW1 if no Switch.

Black Wire from Power Cord Jumper wire to Pad 6 if no switch



Blue Wire from Power Cord

Pin 2 on R6 and Grey wire from Radio Coconnector that is also on (Pin# 6)
Pin 1 is closest pin to bottom cover of Supply R6 is your Bias control

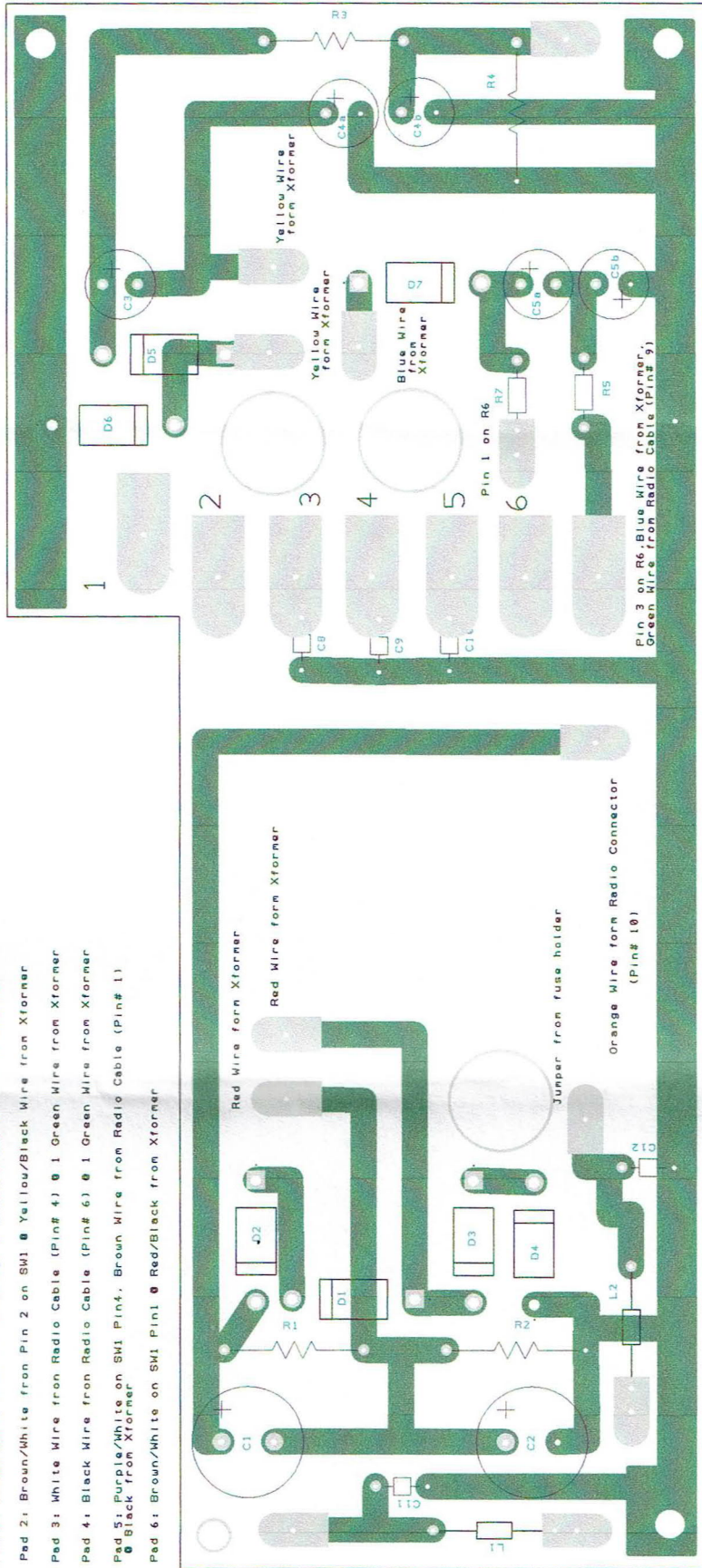
Pin 3 on R6: Blue Wire from Xformer;
Green Wire from Radio Cable (Pin# 9)

(Pin# 11)

Pins:1,2,3 are Closest to Bottom Cover of Supply

- Pad 1: Green/White from Pin 5 on SW1 0 Green/Black Wire from Xformer
- Pad 2: Brown/White from Pin 2 on SW1 0 Yellow/Black Wire from Xformer
- Pad 3: White Wire from Radio Cable (Pin# 4) 0 1 Green Wire from Xformer
- Pad 4: Black Wire from Radio Cable (Pin# 6) 0 1 Green Wire from Xformer
- Pad 5: Purple/White on SW1 Pin4, Brown Wire from Radio Cable (Pin# 1) 0 Black from Xformer
- Pad 6: Brown/White on SW1 Pin1 0 Red/Black from Xformer

Black Wire from Power Cord
Brown/White from Pin1 on SW1
or a jumper wire to Pad 6



Blue Wire from Power Cord
Pin 2 on R6 and Grey wire from Radio Coconnector that is also on (Pin# 6)
Pin 1 is closest pin to bottom cover of Supply R6 is your Bias control

Component	Package	Value	Manuf	Manuf Part No	Distrib	Distrib Part No	Ref Name	QTY
1MS408	AFL		IR	1MS408	Digi-Key	1MS408-ND	D1 D2 D3 D4 D5 D6 D7	7
2554	DPDT	Slide Switch use original don't remove unless bad		2554			SW1	1
C	DSC	.01uf @ 1000volts					C8 C9 C10 C11 C12 C5a C5b C3	5
CP4	DSCV	47uf @ 160volts					C4b C4a	2
CP4	DSCV	100uf @ 160volts					C2 C1	2
CP4	DSCV	100uf @ 350volts					L1 L2	2
CP6	DSCV	150uf @ 450					R5	1
L	DSC	8uH or reuse original					R7	1
R	DSC	1K					R3	1
R	DSC	6.8K @ 1/2 watt					R1 R2 R4	1
RA	DSC	100ohm 5watt					R6	1
RA	DSC	220K 2watt						3
RA_POT	DSC	10K use original don't remove unless bad						1

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PCB Artist Bill of Materials is provided for reference only and must be verified by the user.

