

AC-1-PCB-1 Assembly & Installation Instructions

1. Remove the existing board by removing the nuts that hold it in place and clipping the wires as close to the board as possible. Be sure to mark them or write down the color and where they are connected. You may have to extend them.
2. If you bought the board completely assembled skip this step. Assemble the board using the board diagram. All caps except C8, C9, C10, & C11 go in from the bottom of the board opposite side from the traces. C8, C9, C10, & C11 go in from the top the side with the traces. Install the rest of the components from the trace side, and stand them off the board a little, so they can breathe. Also see the picture for this.
3. Install the board on the same screws that held the existing board by using the connection information below. The filament connections and the rest of the radio cable connections, and any other should remain the same as they were originally.

4. Board Wiring Directions

1. 450 volt wire from the transformer that connects to the junction of D501 & D505.
2. 0 volt wire from the transformer that connects to the junction of D503 & D507.
3. 135 volt wire from the transformer that connects to the junction of D509 & D512.
4. 135 volt wire from the transformer that connects to the junction of D510 & D511.
5. The wire from CH101 that connects to the junction of D511 & D512 and C103.
6. The wire from CH101 that connects to the junction of C104 & pin 3 on the radio cable +300Vdc.
7. 0 volt wire from the transformer that connects to the junction of C105 & the wire from Ch102.
8. The wire from CH102 that connects to the junction of C106 & the

wire from pin 11 on the radio cable +150Vdc.

9. The wire from pin 4 on the radio cable +600Vdc.
10. 100 volt wire from the transformer that connects to the junction of D513 and C513.
11. Pin 1 on the radio cable +100Vdc

Thanks Rusty WK5R
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AC-1-PCB-1 Bill of materials

RfDes	Value	Quantity
C1, C2	150uf @ 450volts	2
C3, C4	22uf @ 160volts	2
C5, C6, C7	.01uf @ 1000volts	3
C8, C9, C10, C11	47uf @ 450volts	4
D1, D2, D3, D4, D5, D6, D7	1N5408	9
R1, R2	470k @ 2watts	2
R3	4.7k @ 2watts	1
R4	22k @ 2watts	1
R5	5 ohms @ 5watts	1



