FET Compressor PCB Board Info

General Notes

-Connections noted are for the MNATS boards and the original UREI schematics.
-All resistors are ¼ Watt.
-Connectors are Molex .100" KK connectors.

These instructions provide a general overview of the connections to be made. Please refer to MNATS excellent and thorough pushbutton wiring guide for information on reducing unwanted hum.

http://mnats.net/1176-wiring-pushbutton.html

Ratio Board Resistor Value Table

	Rev A		Rev D		Rev F/G	
	Value	Schematic	Value	Schematic	Value	Schematic
R1	180	R58	150	R58	150	R87
R2	470	R61	470	R61	470	R42
R3	470	R62	560	R62	560	R43
R4	1.5K	R63	1.5K	R63	1.5K	R44
R5	10M	R45	10M	R45	10M	R46
R6	56K	R21	56K	R21	56K	R22
R7	56K	R20	56K	R20	56K	R24
R8	130K	R19	68K	R19	68K	R25
R9	56K	R22	47K	R22	47K	R23
R10	Link	N/A	56K	R78	56K	R26

Connections

Rel Pot – Connects to the counter clockwise lug of the release pot.

BLK – Connects to GR bypass terminal on the bypass switch along with a signal ground. Pad 22 on the main board is connected to common terminal on the bypass switch. When these terminals are connected GR is bypassed.

20 – Connects to pad 20 on the main board.

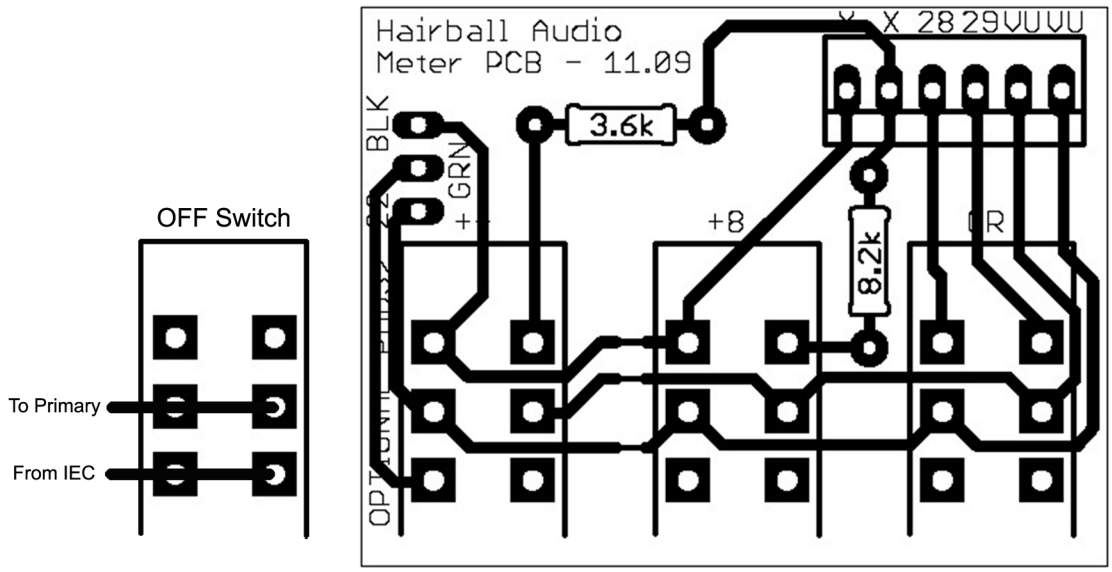
GRN – Connects to GR enable terminal on the bypass switch. Pad 22 on the main board is connected to common terminal on the bypass switch. When these terminals are connected GR is enabled.

21 – Connects to pad 21 on the main board.

15 – Connects to the clockwise lug of the output pot.

Classic Meter Board Wiring Guide (All Revisions)

Following these steps will wire your FET Compressor in the original format. Gain reduction disabling is placed on the attack pot. You will need to purchase 25K log or linear pot with an SPDT switch in the fully counter-clockwise position. Mouser part # **315-2415F-25K** is an example of this type of pot/switch.



If using the on/off configuration, please be sure the switch specifications meet the requirements of the mains voltage in your region. You may choose to use the mains neutral for power switching to reduce excess voltage on the switch. Wiring in parallel will double the current handling capacity of your switch.

Switch Specifications
SWITCHING POWER: F module max. AC/DC: Silver: 50 VA/15W
SWITCHING VOLTAGE: F module max. AC/DC: Silver: 125/30V
SWITCHING CURRENT: F module max. AC/DC: Silver: 0.5A/0.5A
CARRYING CURRENT: Max at du = 20C: Silver: < 2A

Connections

VU – The two VU pads connect to the signal terminals of the VU.

28 – Connects to pad 28 on the main board.

29 – Connects to pad 29 on the main board.

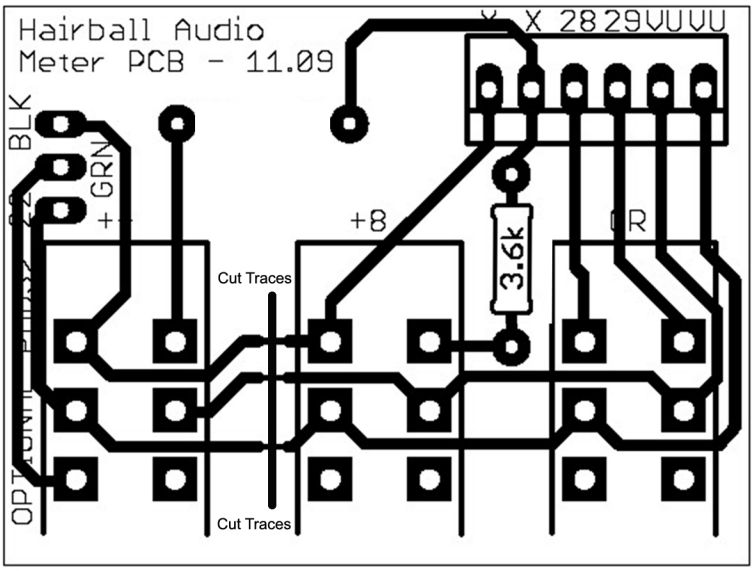
X and Y – On MNATS J boards X and Y are located on the main board. With the Rev A, D and F/G board the X and Y connections are made at the XLR output pin 2 and 3. Which is X and which is Y is not important.

IMPORTANT!!!!!
Do not use the optional BLK, GRN and 22 pads unless you are cutting the meter PCB traces and using the alternate wiring guide described in the next section. If you use the connections with the above set up your compressor will not function correctly.

Alternate Meter Board Wiring Guide (All Revisions)

Some builders may prefer to eliminate the need for a SPDT attack pot by removing the +8 metering option and placing the GR disable on the meter switch.

Cut the three traces and move the 3.6K resistor over to the 8.2K position. You can now use the BLK, GRN and 22 pads as your bypass connections. The three switches below are now GR Bypass, +4 and GR.



You may also choose to add a separate power switch and use the meter board with +8, +4, and GR disable. GR Disable and +4 (or +8) metering can be selected at the same time.