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SERVICE BULLETIN #4

ALTERNATE TRANSFORMER WIRING

- A. This wiring should be used when replacing the 1-65 and 2-130 power transformers with the 100-65 and 200-130 power transformers in the following models:

2100-65
2100-130
2275-65 --- containing the DB-2 solid state driver board
2275-130
2475-65
2475-130

NOTE: Be sure to read instructions all the way through before beginning work.

- B. Replacement is as follows:

1. Cut the replacement transformer leads to the following lengths:

Black-----	6"	*Orange-----	1"
Black/red-----	9"	*Black/yellow-----	1"
Brown-----	5"		
Red-----	5"		
Red/yellow-----	7"		
Orange-----	4"		
Yellow-----	4"		
Green-----	8"		
Green/yellow---	8"		

* Apply heat shrink tubing over the ends of the remaining 1" orange and yellow/black leads as they will not be used.

2. After removing the original 1-65 or 2-130 power transformer there will be a wire and a .047 capacitor remaining on the Hi/Lo power switch on the front panel. Disconnect the wire from the Hi/Lo power switch and leave the other end of it connected to the ground switch on the rear panel. Cut the wire to a length of 4 inches and connect it to the empty lug of the standby switch on the rear panel. Remove the orange wire from the remaining lug of the standby switch and cut it off at the RB-1 rectifier board. Attach one side of the replacement power transformer primary winding (red/black) to the empty lug on the standby switch.

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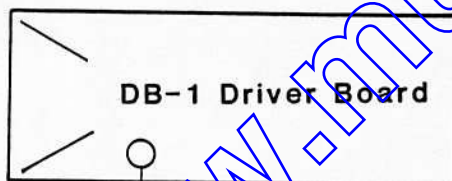
3. Disconnect the remaining wire from the pilot lamp on the front panel and disconnect its other end from the ground switch. Attach the remaining transformer primary wire (black) in its place at the ground switch. This will leave the pilot lamp with no wires attached until step 5.
4. Remove the .047 capacitor from the Hi/Lo power switch on the front panel. Using fig. #1 as a guide, attach an 8 inch length of 18 gauge white wire from the center lug of the Hi/Lo power switch to point "F" on the RB-1 rectifier board. The RB-1 rectifier board is located in the right rear corner. (looking from the front)
5. Attach the brown secondary transformer winding to the bottom lug of the Hi/Lo power switch. Attach the red secondary transformer winding and a 39K $\frac{1}{2}$ Watt resistor to the top lug of the Hi/Lo power switch. Attach the other side of the 39K resistor to one side of the pilot lamp. Use heat shrink tubing over the exposed leads of the resistor.
6. Attach the red/yellow secondary transformer winding and a 12 inch piece of 22 gauge yellow wire to the remaining lug of the pilot lamp. Attach the other end of the 12 inch yellow wire to point "B" on the RB-1 rectifier board.
7. Attach one of the orange secondary transformer windings to point "I" on the RB-1 rectifier board.
8. Attach the yellow transformer center tap winding to point "D" on the RB-1 rectifier board.
9. Attach the two green filament windings to the terminal strip in the same place as the originals. (On the 200-130 power transformer there are two windings for each side of the filaments. Attach yellow/green to yellow/green and green to green.) Use wire ties and "bundle" the wires in a neat fashion. Refer to fig. #2 to check wiring before turning on the amp.

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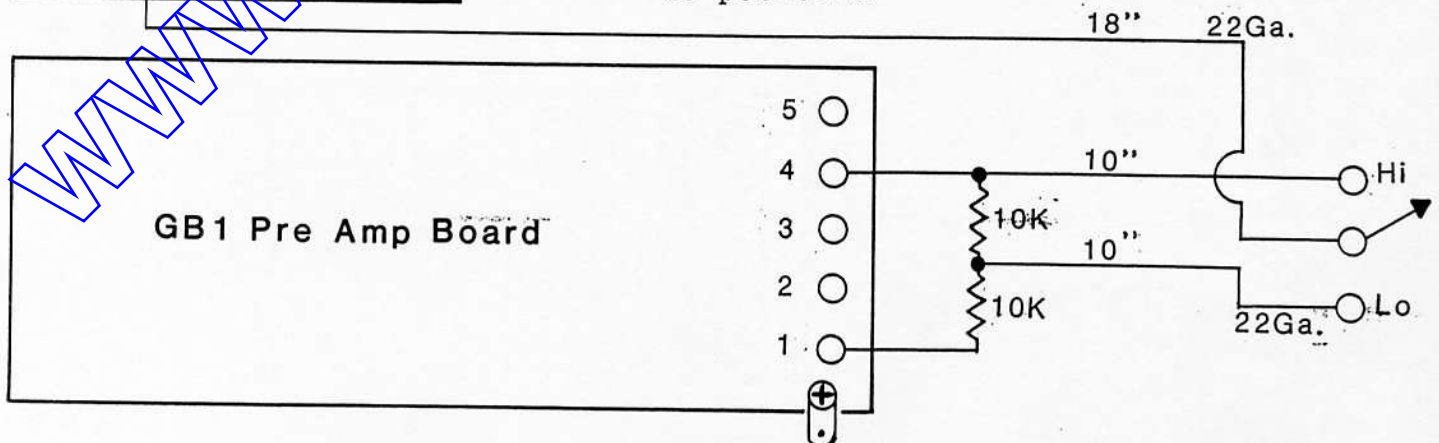
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NOTE: Only complete the following steps if the amplifier contains a 12AX7A driver tube and has not had a DB-2 modification.

10. Replace the SPDT center-off front panel HI-LO switch with a DPDT center-off switch. Wire one half of the switch as previously described. Wire the other half of the switch as described in the following steps.
11. Twist the leads of two 10K $\frac{1}{2}$ W resistors together so that they form a series configuration. Attach one end of a 10" inch piece of 22 gauge wire to the point at which the two resistor leads are twisted together. Attach the other end of the wire to the upper lug of the HI-LO switch on the front panel. Attach the remaining lead of one of the 10K resistors to eyelet #4 located on the far right side of the GB-1 preamp circuit board. (Looking from the front and counting from front to back.) There will be a grey wire soldered to eyelet #4. Cut this wire to a length of 10" inches leaving one end soldered to eyelet #4. Attach the other end to the bottom lug of the HI-LO switch. Attach the lead of the remaining 10K resistor to eyelet #1.
12. Attach an 18" inch length of 22 gauge wire to the center lug of the HI-LO switch. Attach the other end of the wire to the eyelet on the DB-1 driver board where the grey wire from the GB-1 preamp board used to connect.



NOTE: The two 10K resistors in this circuit act as a voltage divider network. The negative grid bias voltage should drop by half when the HI-LO switch is in the LO position



TRANSFORMER
(100-65 200-130)

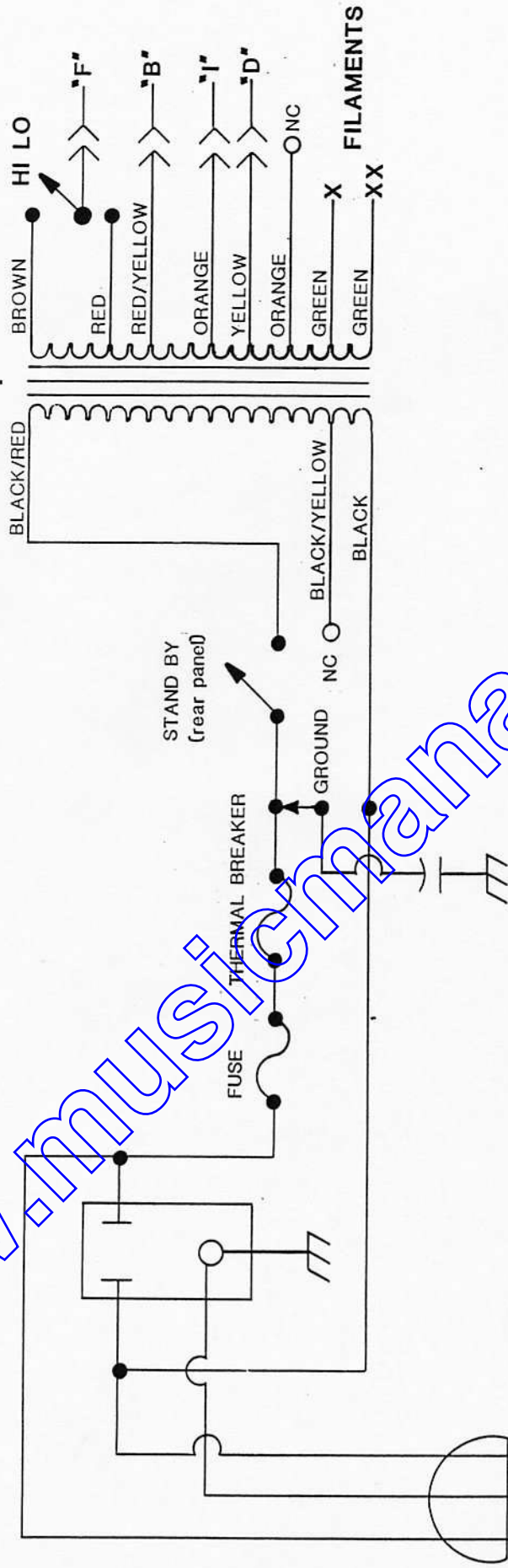


FIG. 2

RB-1 RECTIFIER BOARD

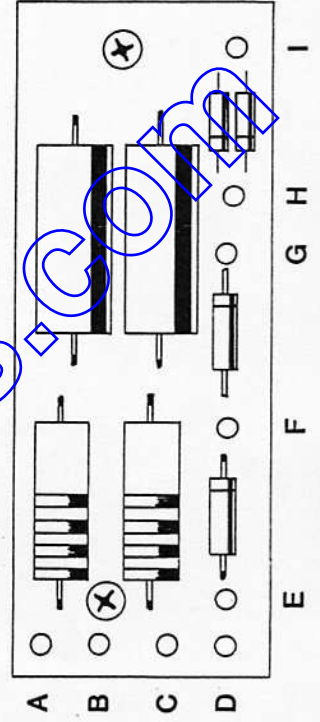


FIG. 1