

PS Audio

Service Manual

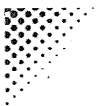
250 DELTA
Mono Amplifier



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TOOLS REQUIRED

1. Phillips head #1 screwdriver
2. Phillips head #2 screwdriver
3. Solder iron
4. Solder wick
5. Solder sucker or equivalent
6. 5/32 inch Allen head wrench
7. Digital multimeter



DISASSEMBLY OF 250 DELTA

Caution: Before servicing any equipment, unplug unit from all electrical sources.

I. STEPS TO REMOVE MAIN CIRCUIT BOARD.

1. Remove (10) screws securing TOP cover with a #2 Phillips screwdriver.

**** Before going on to next step, note (on a sheet of paper) the relative color and positions of ALL wires going to Main (vertical) circuit board.**

2. Desolder ALL wires connected to the Main circuit board.
3. Using a #1 Phillips screwdriver, remove the screws securing ALL transistors to the heatsink.
4. Carefully remove Main circuit board from chassis.



PARTS COMMONLY REPLACED

DESCRIPTION

1. Gain Stage2SA1553
2. Gain Stage2SC4029
3. Resistor 16 ohm, 1 Watt
4. Input FETNPD5565
5. Buffer2N6556
6. Power LEDLED
7. Speaker fuse8A 250V Fast Blo
8. Line fuse (110VAC units only) 10A 250V Slo Blo
9. Line fuse (220VAC units only)5A 250V Slo Blo



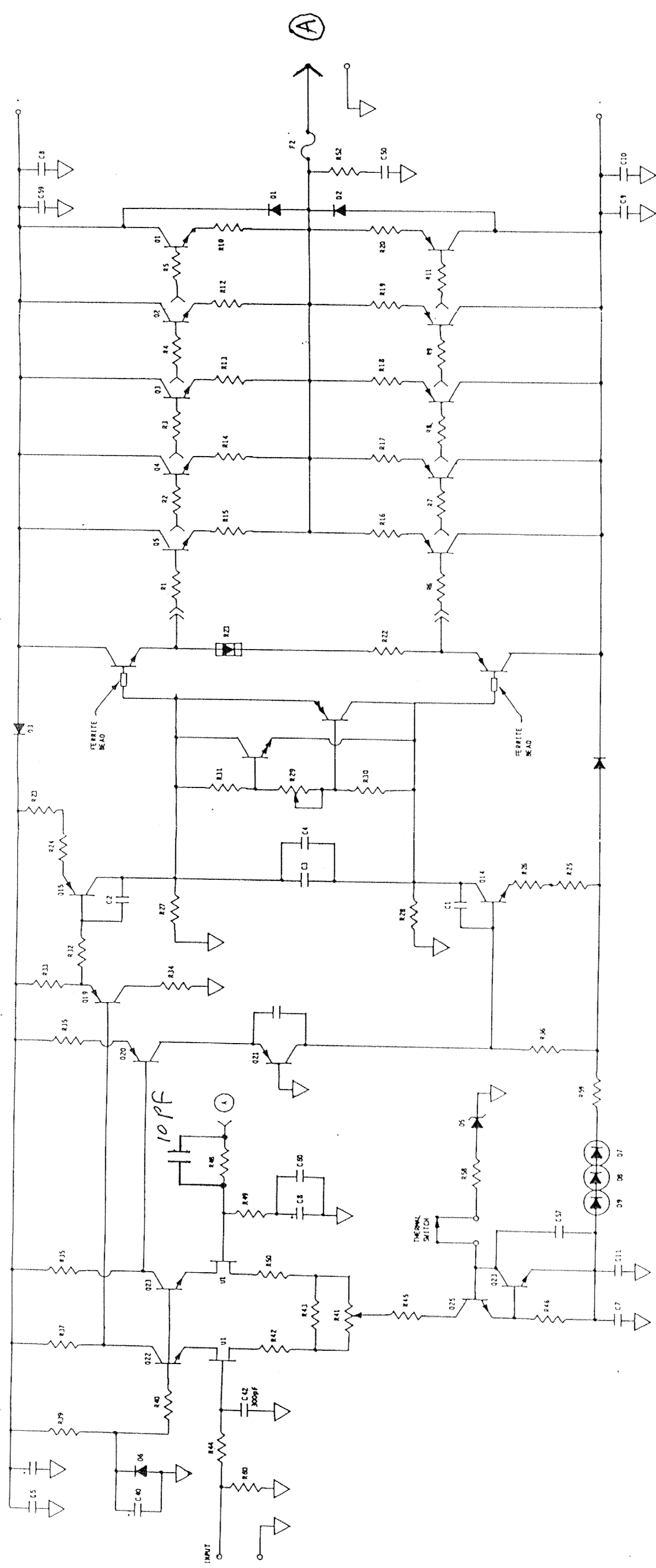
BIAS AND DC OFFSET ADJUSTMENT

I. BIAS ADJUST PROCEDURE.

1. Clip ground (-) lead of digital multimeter to positive (+) terminal of amplifier output.
2. Set multimeter to millivolt scale.
3. Measure the voltage at the emitter of EACH output transistor.
4. Allow 250 Delta to warm up at least (1) hour.
5. Adjust Bias with bias pot R29 until each transistor is approximately $5\text{mV} \pm 0.5$ (on average).

II. DC OFFSET ADJUST PROCEDURE.

1. Set multimeter to millivolt scale.
2. While monitoring the Main output:
 - a) Adjust R41 for $0 \pm 10\text{mV}$.



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Power Amplifier
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