Deluxe (5E3)

Transformers

PT (TR1): Hammond 372BX   (works with non-NOS 5Y3GT)
          Hammond 290AEX (works best with NOS 5Y3GT)

OT (TR2): Hammond 1750E

Tubes

Pre-Amp: 12AY7 or 6072 (you can try a 12AX7 as well)
Phase-Inverter: 12AX7 or ECC83
Power-Amp: 6V6GT
Rectifier: 5Y3GT

Resistors

1/2 Watt if not otherwise noted
Carbon Composition

Capacitors

Coupling: Mallory 150s 630V, Orange Drops 630V or similar
Low cap: Silver Mica
Electrolyte: e.g. F+T or similar

Note:

All resistors 1/2 Watt 10% tolerance, if not specified. All capacitors at 630 Volt rating, if not specified. Electrolytic capacitors attached to the cathodes are at least rated 25 Volt.

Voltages read to ground with electronic voltmeter (DMM). Values shown in green may differ by up to 20% depending on the power transformer and rectifier tube used..

Star-Ground

Mains 230VAC

Filaments V1 ... V4

Virtual center point to avoid hum from the filament wires.
If the transformer has a center tap for the filament supply,
you can use this one connected to GND instead.

12AY7, 12AX7
7025, ECC81, 82, 83   6V6GT   5Y3GT

NFB mod

Switchable NFB (negative feedback) modification
Originally the 5E3 has no NFB. By this mod you have
the possibility to give the amp more headroom. It will
stay clean longer until it starts distorsion.

1: Standard Deluxe
2: Bypass cap off
3: NFB active

To 8 Ohms tap

J1 ...J6 should be isolated from chassis.
All GND (ground) connections are attached to the single star-ground, which is itself from the chassis.
Only connecting wire between the chassis and ground between PE and Star-Ground

SPEAKER
(Shortcuts output for safety reason if no speaker connected)

EXT. SPEAKER
(Switches internal off)

8 OHMS   Jensen P12R or P12Q

STANDBY

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