

Unit is a Techeunion TU915  
The Unistar 15A2 looks identical  
and PCB is labeled Unistar 15A2

This is sort of a hybrid schematic-board layout. Tube one is  
upper left on amplifier when amp is upside down and tubes  
away from you. This was done because I was interested in  
function of this amplifier due to the little info available online.  
Tubes in amplifier don't match info online. They are:  
12ax7, 12ax7, EL34, EL34, EL34, EL34, 12ax7, 12ax7  
Online info says 12A17x2, 12AUx2, EL34(6CA7)x4 in unknown order

Left and right ch use diffrent triode halves  
on the 2 input stages to keep physical symetry

Resistors and diodes don't have R and D annotations  
Capacitors have doubles, Kicad didn't like this.  
So ignore anything after C1

Capacitors C5s are a point of confusion.  
One was a factory brand capacitor and was  
50u 100V. The other looked to be replaced  
as it was a diffrent brand with a 470u 16V  
cap. One C5 is marked 470u 16V on the board,  
the other is not. Replacing with 470u 16V due  
to I think it unlikely you get 16mK from the 12ax7  
across the 1K resistor to blow the cap.

C4s and C6s capacitors were replaced with 2200u  
rated for 250V as the hing line voltage put 22V  
on the 200V caps.

Dotted line denoted circuit board

Voltages noted were measured in use.  
Line voltage as measured

R2 resistor is labeled  
100K. Someone J hooked  
a 76K in series on top of  
the board. Owner says  
bought new, no repairs!

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