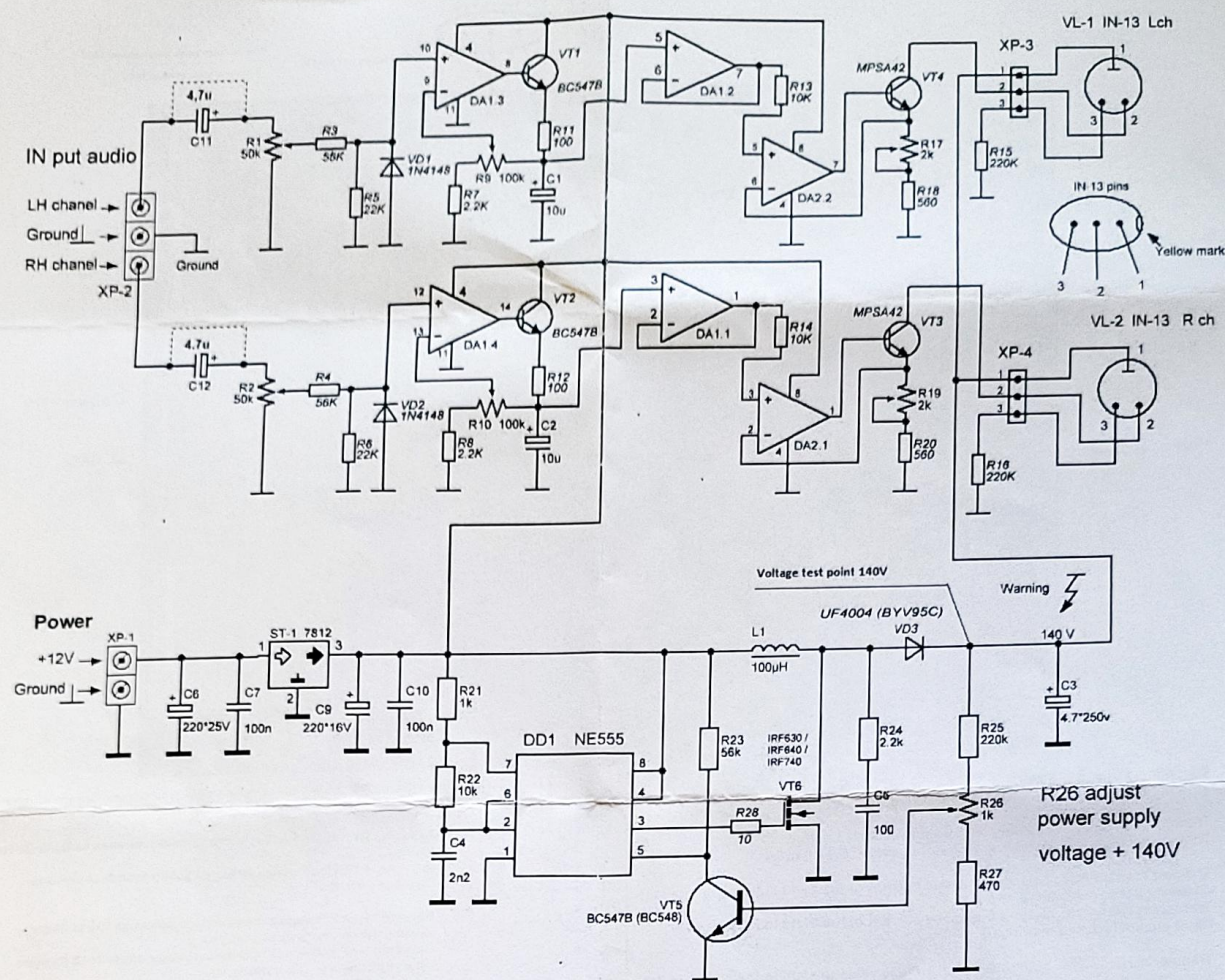


# Stereo VU-meter for IN-13 nixie tube JP-0820



## Recommendation for setting the indicator nixie tube IN13 control unit.

When turning on for the first time, do not connect the IN-13 indicators to the control unit.

Connect the 12-18V DC power supply to the control unit to the XP1 connector.

Set the voltage to + 140V with the variable resistor R26, controlling the voltage at the test point at the cathode of the diode VD9 (indicated in the diagram) with a measuring device (multimeter).

Disconnect the 12-18V DC supply voltage from the control unit, from the XP1 connector.

Set the variable resistor R1, R2, R9, R10, R17, R19 to the maximum value, rotating the resistors clockwise to the right until they stop.

Connect the IN-13 vacuum indicators to the control unit, observing the connector numbers shown in the diagram, to the XP3, XP4 connectors

Connect the 12-18V DC power supply to the control unit to the XP1 connector. The indicators should "light up" at the bottom of the scale. If the light bars "shine" above the beginning of the indicator, you can reduce the initial "illumination" of the indicators by rotating the variable resistors R17, R19 counterclockwise to the left, but no more than 2-3 turns (no more than 2-3 turns are required!).

Then, you need to reduce the level of fine adjustment by rotating the variable resistors R9, R10 to the left counterclockwise, by 5-6 turns - no more.

Next, connect the audio signal to the XP2 connector. It is better to adjust it with a sound generator with a frequency of 1 kHz and a signal level of at least 0.3V.

Set the maximum sound level on your generator or music device.

Adjust with variable resistors the maximum height of the light column on the IN13 nixie indicators by decreasing or increasing by rotating the variable resistors R1, R2.

After that, make fine adjustment of the level of Indicators tube IN13, variable resistors R9, R10.

At this point, the setting of the indicator control unit can be considered complete.