

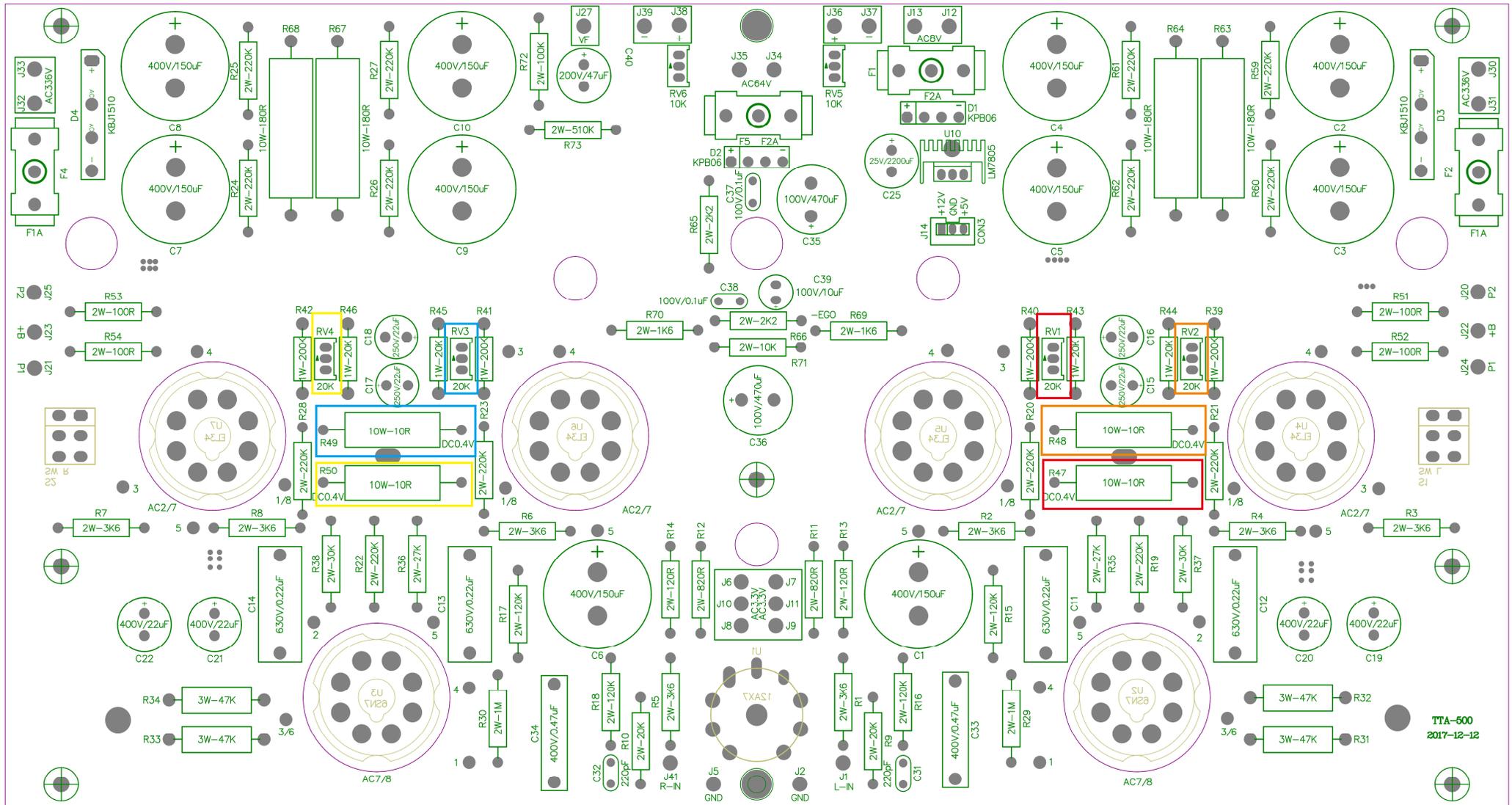
EL-34 BIAS ADJUSTMENT

TAGA Harmony recommends that the below actions and modifications are performed by the authorized service only.

Each time after any of the output power tubes (EL34) is exchanged for new one – the amplifier is required to be biased manually according to the below procedure (as well as whenever it is required for the currently installed tubes):

1. Turn off the unit and remove the power cord;
2. If required install new EL34 tubes;
3. Make sure the tube cage is installed;
4. Disconnect all connected devices and speakers;
5. Place the amplifier upside down on the flat surface;
6. Make sure that the power is stable (230V) to ensure the correctness of the measurements;
7. Connect the power cord and turn on the unit and wait around 5-10 minutes to warm up the tubes;
8. Unscrew screws located on the bottom of the amplifier and remove the bottom cover;
9. There are 4 resistors (1 for each output tube) marked R47, R48, R49, R50 located on the main board (check the figure on next page);
10. Above the R resistors there are adjustable resistors marked RV1, RV2, RV3, RV4 corresponding to the R resistors;
11. Connect a voltmeter to the R resistors and measure the DC voltage of each;
If the DC voltage of a given R resistor is not 0.4V then adjust the corresponding RV resistor to set this voltage – repeat this action for all four R resistors;
We recommend to repeat measurements one more time and if necessary to adjust the voltage after a period of 5-10 minutes (leave the amplifier turned on for this period of time).
12. Screw in the bottom cover;
13. Your amplifier is ready for operation.





More information about the TAGA Harmony brand and its products is available at www.TagHarmony.com