

Audvance reproduce amplifier board

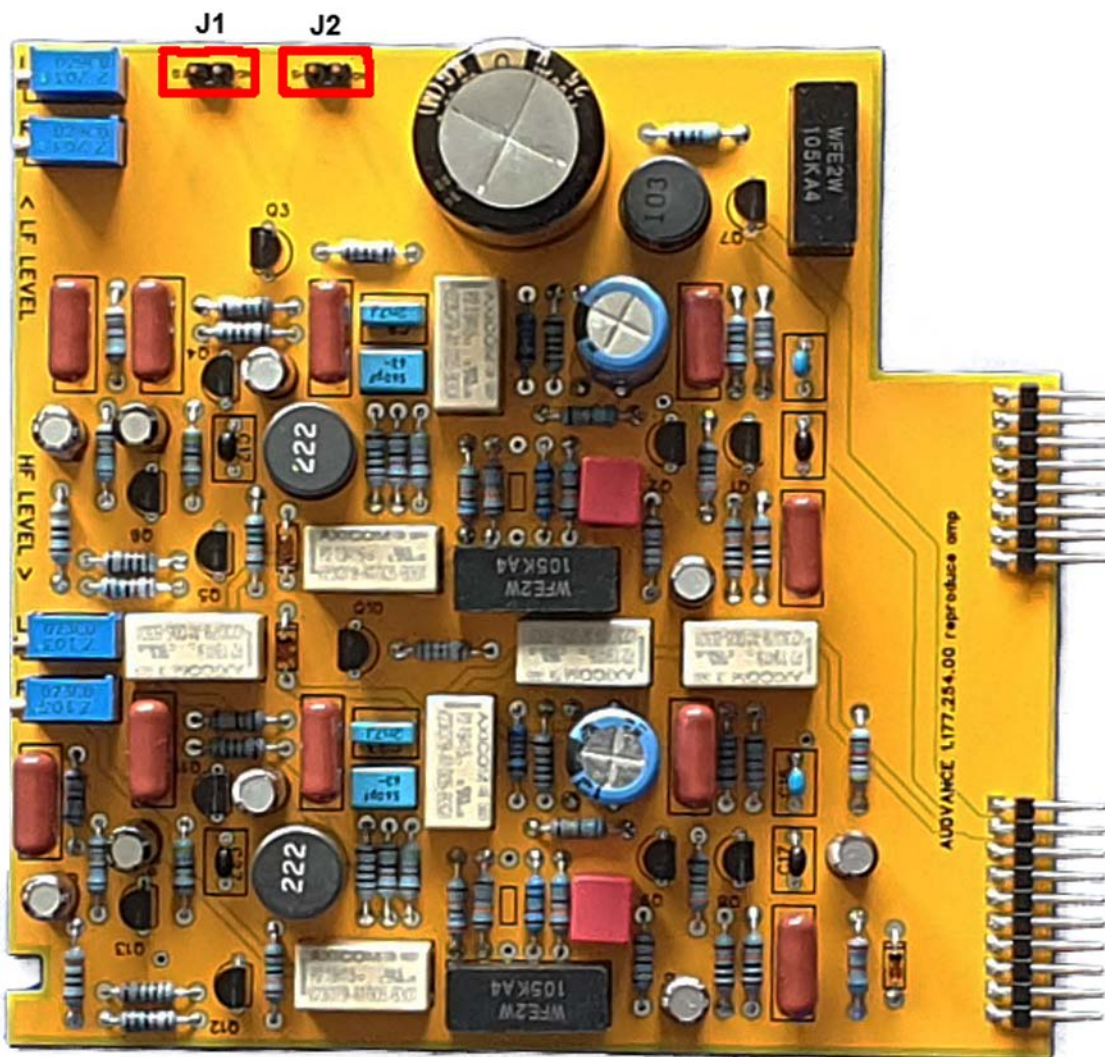
This board can be used in all Revox B77 machines as a direct replacement for all varieties of Revox repro(duce) amplifier boards. The board has been pre-calibrated so you can use the board right away. Since every recorder is slightly different because of production tolerances and wear, the best performance will be achieved with a board that is calibrated on your machine.

Calibration

The calibration of the reproduction/playback levels should be done in a similar way as it should be done with the Revox boards, but now at two frequencies. The calibration can be done while the machine is standing upright, which is very convenient. The calibration can be done in either NAB or IEC/CCIR mode. There is no need to do new calibrations after each switch of equalization.

You need a test tape and an AC voltmeter or an oscilloscope to do the calibration:

- Use a test tape with a 400Hz tone at 0dB. Adjust the LF level pots so that the output level is 775mV.
- Use a test tape with a tone of about 10kHz. Adjust the HF level pots so that the output level is identical to the level at another frequency that is 1kHz or lower. This will result in a maximally flat frequency response.



Jumpers to select equalization

There are two places on the board where jumpers can be used. The jumpers are included. The jumpers are used to select the available equalization(s) as can be seen in the table below:

J1	J2	Equalization	
		Slow	Fast
No jumper	No jumper	3180us/90us	3180us/50us
Jumper	No jumper		
No jumper	Jumper	3180us/50us	3180us/50us
Jumper	Jumper	-/70us	-/35us

The first line in the table corresponds to the NAB equalization found in standard B77 machines with speeds of 3,75 ips and 7,5 ips. The third and fourth line correspond to the NAB and IEC/CCIR equalization found in B77 High Speed machines with speeds of 7,5 ips and 15 ips.

It is possible to switch between NAB and IEC/CCIR equalization as can be seen from the last two lines in the table. Jumper J1 can be shorted remotely with any switch to switch equalization to IEC/CCIR.