

USER MANUAL

PRIMUS audiophile amplifier is a device built in push-pull configuration as the amplifier without transformers speaker.

The amplifier is equipped with a protection system before the advent a DC voltage to the speakers and an automatic symmetry of the tail lamp, there is no need accurate pairing lamps 6S33S, but the initial selection of lamps in pairs facilitate the work of the symmetrization.

Protection before the voltage at the output speaker is activated in about 1 second problem occurs and, therefore, will be heard loud popping cone excursion woofer, at this point is cut off power lamps and discharge capacitors power supplies anode. For proper operation of this protection system must be fulfilled two conditions:

1. connected speakers must have an impedance of not less than 8 ohm,
2. quiescent current lamps 6S33S no signal should be no less than 200 mA.

Immediately after powering light up two red LEDs PROTECT, then go off, it means switching voltage anode-amplifier is ready for operation, but only after warming up (about 30 minutes) it is possible to listen with the correct hue and saturation of the musical material.

WARNING!!! AMP CONNECT TO POWER SUPPLY 230 V ONLY SOCKET EQUIPPED WITH grounding prong-RELIEF.

Power switch is located on the lower panel of the front of the amplifier. The amplifier is equipped with a infrared remote control. It allows you to adjust the volume, balance, mute and a choice of one of two types of inputs: XLR, RCA.

Connect speakers with impedance of 8 or 16 ohm recommended 16 ohms.

1. Adjusting the quiescent current

The amplifier requires a pre-set and periodically review the quiescent current once every few months or when replacing the lamp 6S33S. Indications quiescent current are visible on gauges on the front panel.

The adjustment should be carried out at a low level to a minimum volume, after a half-hour warm-up amplifier. Adjustments are made with a screwdriver in the hole of the potentiometer P1 for the left channel. Turn the screwdriver while watching the meter to the left channel. Range possible quiescent current is from 200 to 360 mA, 330 mA value is optimal. Repeat the same steps for the right channel by adjusting potentiometer P2. Quiescent current for both channels need not be the same.

Keep in mind that the higher the quiescent current causes rapid wear of the lamp 6S33S.

WARNING! THE AMOUNT OF THE MAINS VOLTAGE OF 230 V HAS A STRONG IMPACT ON THE VALUE OF THE QUIESCENT CURRENT.

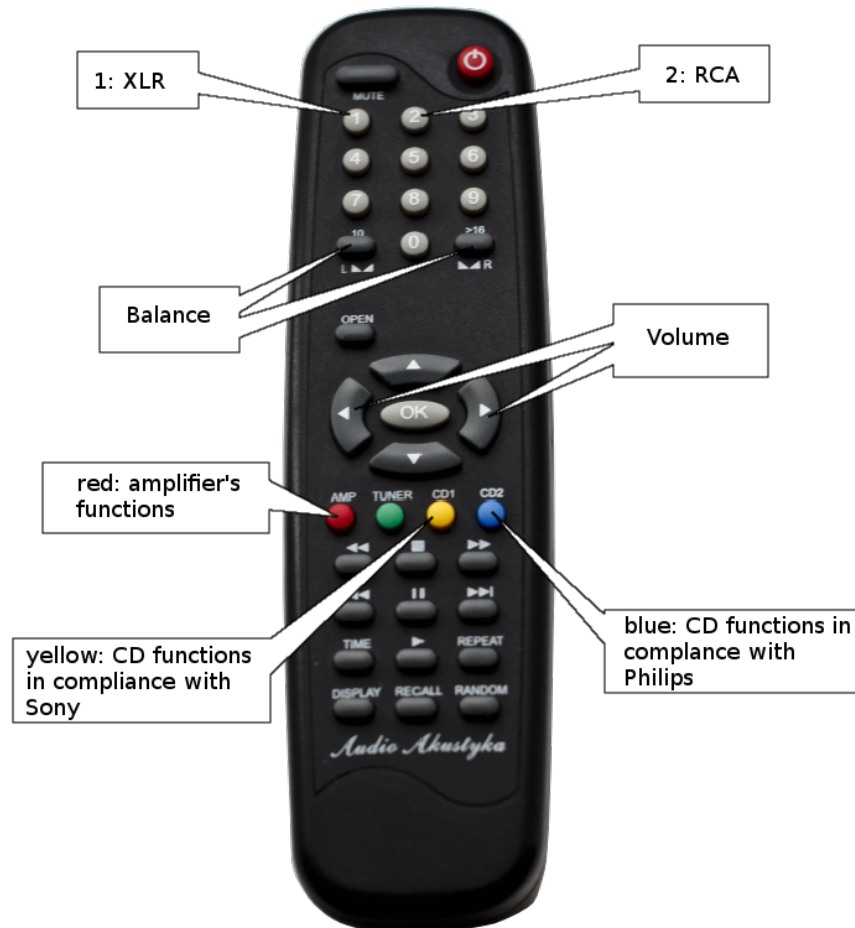
2. Modes amplifier

After powering on, the default mode is set to XLR – mode fully symmetric.

By pressing the button 1 on the remote control, select the input on XLR socket - mode fully symmetrical LED lights up green.

By pressing the button 2 on the remote control, select the RCA input - push-pull mode with phase inversion signal inside the amplifier, LED lights up orange.

3. Remote control



The red button - control amplifier.

Yellow button - control rooms CD player from Sony.

Blue for the control rooms CD player Phillips and Marantz.

4. Safety and protection system speakers

Fuse network, with face value of 6 A / 250V, is hidden in the socket cord in the pull-out drawer. Be sure to use fuses with face value of 6 A / 250 V.

Protection system - if it detects the voltage at the output speaker, disconnects power supply anode which is indicated LED PROTECT in each channel, which are activated to indicate the channel has the problem.

Turn off the amplifier, correct the problem, wait for them to cool down approximately 15 to 20 minutes, and switching amplifier.

The amplifier is equipped with a protection system against excessive quiescent current, the value is exceeded 800 mA lights LED BIAS next to the meter and current information about the activation of this system in this case also disconnects the power amplifier anode. Turn off the amplifier, remove the cause, allow them to cool down, and switching amplifier.

Please note that the quiescent current and current music signal are added together.

5. Lamps

Lamps 6S33S not occur as replacements for other manufacturers. There are only a lamp NOS, Russian production.

Carefully insert the lamp 6S33S the stands because they are vulnerable damage and mechanical stress, the glass may break.

It is important to press firmly lamps 6S33S the stands, because the legs are quite short lamp and lamp tilt to one side or not quite accurate tightening can cause poor contact or no bases with pins.

Lamps degree voltage is Russian 6N6P.

After switching off the amplifier, wait until the lamp completely cool and then it can be switched on again. Failure to observe this will cause the flow instantaneous large current anode, lamps will be exposed to strong impact and could be damaged.

Lamps 6S33S should be pre-selected in pairs, with a large spread parameter anode current will cause improper operation of symmetrization and the emergence of DC voltage at the output terminals and the consequences of activation of the protection against the appearance of the voltage at the output speaker - amplifier is switched off.

6. Speakers

Lamps 6S33S should be pre-steamed, so that the arrangement symmetrization lamps and protection system can operate correctly and efficiently, and therefore also for their proper operation it is necessary to connect the speaker before switching amplifier-can also be short-circuited short pieces of wire speaker terminals, otherwise the amplifier may does not attach.

Speakers should have a minimum impedance of 8 ohms, preferably above 8 ohm and crossovers the first or second row, all kinds of filters trap and impedance linearisation has a very strong negative impact on the sound amplifier. Loudspeakers should have a high efficiency of not less than about 92-94 dB.

The fulfillment of these conditions ensures the full potential of the amplifier.

7. Specifications

Output power:

- for 8 ohm - 24 watts
- for 16 ohm - 36 watts

Bandwidth-band capacity: 2 Hz - 60 kHz

Input Sensitivity: 0.7V

Power supply: 230V, 50Hz

Power consumption: 350W

Weight: 24kg

Enjoy!

AUDI  AKUSTYKA