



HIGH - END ELECTRONICS BORN
IN ITALY

S 6

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OWNERS MANUAL

First may we thank you for choosing a valve amplifier from A.R.I.A. Advanced Research In Audio srl.

Your new amplifier is the result of many years of electronic design experience allied to a thorough understanding of electronic tubes. But more than that it is the fruit of our passion, and of our wish to create products to give musical enjoyment and lasting value, in which the traditional craftsman's skill is blended with advanced electronic design.

Each and very one of our products is built using the best and most trusted materials, before being subjected to rigorous testing and final inspection.

All the wood parts are hand made in solid wood by expert craftsmen, and finished exclusively with natural organic lacquers. As well giving a very pleasing appearance to the eye, the wood also benefits sound quality by helping to dampen resonance in the metal chassis .

UNPACKING

First of all please make sure that the carton is sealed and that the amplifier has not suffered any damage in transit. If you notice any signs of damage, consult your Authorised Dealer before attempting to operate the unit.

To protect delicate parts against shocks during transport, valves are normally packed separately.

Please refer to the fitting instructions for valves contained in this manual .

IMPORTANT !

When unpacking an amplifier which is cold, allow it to stand for sufficient time to reach normal room temperature before attempting to operate it. This precaution will allow any condensation which may have formed on the electronic parts to fully dissipate.

Keep the original carton and packing material in a safe place. You will need it if you have to send the unit for service or transport it for any other reason.

VALVE FITTING

Fit the valves into their corresponding sockets following the scheme you can see on the transformers cover and the indications on the valves themselves which ensure the correct orientation.

When fitting (or removing) valves, use firm but gentle pressure. **Never use force !**

PLACEMENT

The unit should be placed on a safe, stable surface, out of reach of children or pets. Adequate ventilation is required above and around the unit. Take care not to expose the unit to high temperature or humidity.

CONNECTING INPUTS AND OUTPUTS

Situated on the rear panel of the *S 6* are the input and output sockets.

IMPORTANT !

Ensure that all other items of equipment to be connected to the amplifier are switched off before making the connections.

Do not insert the amplifier AC mains cord until all input and loudspeaker connections are securely made.

To avoid the possibility of hum and noise, it is good practice to ensure that all connections to and from the amplifier are clean and tight, and that all cable runs are neat and tidy. For best results, AC mains cables should not be placed alongside signal or loudspeaker cables.

Using RCA phono interconnects of suitable quality, connect the various sources (CD, tuner, phono) to the corresponding inputs of the amplifier.

Remember when connecting the loudspeaker cables to the amplifier output terminals to respect the correct phase (red = +/black = -) for each channel.

CONNECTION TO MAINS

Before connecting the mains cable and switching on, make sure that your local power supply voltage corresponds to the value shown on the rear panel of the unit.

IMPORTANT !

Never connect the amplifier to a mains supply of a different voltage to that shown on the unit !

Mains fuses are located in the IEC mains input socket located on the rear of the unit. The correct value is indicated on the rear panel and also in the technical specifications at the end of this manual.

If you need to replace a mains fuse, always use one of the same type and rating !

OPERATION

The optimal temperature, corresponding to the best sound performance, is reached after about 15 minutes from switching on.

VOLUME CONTROL

Before switching on the unit, ensure that the volume control is at the minimum (fully anticlockwise) position.

During the initial warm up keep the volume at the minimum to avoid any possible sollicitation due to transient effects.

After the warm up time it is possible to regulate the volume either rotating the volume control handle on the front panel or pushing the dedicated buttons on the remote handset.

IMPORTANT !

All the operations at the inputs or outputs should be preferably executed when the device is switched off or anyway keeping the volume at the minimum.

INPUT SELECTION

The desired input can be selected either rotating the input selector handle on the front panel.

BIAS SETUP

The bias of the valve output stage is a mixture a $\frac{1}{2}$ automatic, $\frac{1}{2}$ manual. The manual setup is done individually on each output valves.

Pressing the left hand button marked V2 L or R the instrument at left or right side will move the needle up the scale. At the same time turn the potentiometer V2 L or R to place the needle of the instrument exactly in the center between the green and red zones of the scale.

This operation must be repeated with V3 L or R, V4 L or R .

Finally we suggest repeating the setup procedure, as the output stage is a parallel single ended there is a small interaction between the output valves.

ATTENTION

The potentiometers act on the bias even if the buttons are not pressed and the meter is switched off. If you believe for whatever reason that the bias has been altered, repeat the setup procedure.

A reduced current at the output valves (the meter needle in the green area) reduces the output power and increases the distortion.

A superior current (needle in the red zone) drastically reduces the output valves life.

REMOTE CONTROL FUNCTIONS

Volume level of the amplifier can be controlled by means of the InfraRed remote handset.

The remote control unit supplied with the *S 6* is fully compatible with the standard handset of the Unico series amplifiers and the Unico CD.

Replacement batteries should be of the same type.

SWITCHING OFF THE UNIT

After switching off the unit, wait around 5 minutes before switching it on again. This time is necessary to allow the valves to cool down to room temperature.

SAFETY AND MAINTENANCE

Do not open the amplifier !

High voltages are present inside. There are no user serviceable parts inside, and all service operations should be undertaken only by an Authorised Service Centre.

Please note that any service work or modification to the unit carried out by unauthorised personnel may invalidate the warranty. Refer any service queries in the first instance to your Dealer.

Do not spill liquid into the amplifier.

If that should happen, switch off immediately and remove the mains plug from the wall. Have the amplifier checked by an Authorised Service Centre.

When inserting the mains plug into the wall socket or mains outlet, make sure that the on/off switch on the unit is in the off position.

If you do not intend to use the unit for a long period, remove the mains plug from the mains supply.

Cleaning the amplifier

Cleaning the unit should take place only when it is switched off and the valves are cold.

Use a soft dry cloth. Do not use solvents or alcohol based detergents.

Do not rub hard when cleaning the printed lettering.

Never operate the unit if it is covered !

Never attempt to remove the valves when the unit is switched on !

If you need to remove and replace the valves, do so only when the valves are cold and the unit is switched off.

Replace valves only with others of the same type, preferably in matched pairs.

Avoid shocks and vibration to the unit, which can damage or reduce the life of the valves.

TECHNICAL CHARACTERISTICS

Type: All-valve integrated amplifier

Valve complement: 6 x EL 34, 2 x ECC83

Operating Mode: Pure Class A

Power stage: -parallel single-ended

Output power: 30/35 Watt/channel

Bandwidth: 20 – 50000 Hz

Output impedance: 6 Ohm

Input impedance: 47 kOhm

Inputs: 5 line

Outputs: 1 tape

Power consumption: 265VA max

Dimensions : 35 cm x 21cm x 49 cm (L x H x D)

14 x 8 x 19 inch

Net weight: 25 kg 55 Ibs

Fuses: 5x20 – 6.3 A T 100V to 120V

5x20 – 3.15 A T 220V to 240V

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