

# T - 55A

OWNER'S MANUAL



**TALISMAN**  
AUDIO

**T-55A**

## CONGRATULATIONS

The Talisman Audio team congratulates you for your acquisition of the high-end T-55A headphone stereophonic amplifier.

Our team designed and manufactured this product with utmost professionalism and care. We trust that the highest standards of technology and quality which we build into all our products will serve you well, and make you enjoy your new amplifier for many years to come.

## SAFETY PRECAUTIONS




To reduce the risk of electrical shock, do not expose to rain, water, splattering, or humidity !

Do not open housing. Risk of electrical shock !

You must use the electrical cord supplied, connect it to a grounded mains outlet !

Make sure that the operating voltage of the unit is the same as the voltage provided by your local electrical grid (local mains) !

Do not short the headset output  !



The « CE » indication at the back of the T-55A indicates that the unit is in conformity with the Electromagnetic Compatibility and Low Voltage Directives of the European Union.

SAFETY : HD 195-S6, EN 60065.

EMC : Emission EN 55013, Immunity EN 55020, conform to CISPR 16-1, CISPR 16-2, IEC 801-2 class B, IEC801-3 class A, IEC 801-4 class B.

## GENERAL INSTRUCTIONS

### Unpacking

Upon unpacking you should find the following equipment and accessories :

- T-55A amplifier in its protective bag ;
- power cord ;
- a two-parts foam wedging.

We advise you to keep this packing, in case you had to return the product, to ensure safe travel conditions.

Nota : this leaflet can be found on our site <http://www.talisman-audio.com>

### Preparation and placement

Select an appropriate spot to place your T-55A. Since it is a monoblock product, you may choose between several options : near the other components of your HI FI system, and precisely near the pre-amp, or near the speaker it monitors.

In any case, you will have an outstanding result !

- be sure the T-55A is set on a firm and vibration free surface ;
- don't be astonished if you notice a raise of the temperature of the product. Just be careful to let it work in an open area ;
- do not set the T-55A near another product, since it could generate vibrations, noise or excessive heat.

# T-55A

## Unique features

## OVERVIEW

The T-55A was designed and shaped to fulfill the wishes of great music lovers. It's one of the distinguished members of the famous Talisman Audio family.

Truly compelling to our general philosophy, he has the following remarkable features:

- discrete high quality components throughout the HI FI scheme ;
- outstanding performance of the open loop in a true symmetrical architecture ;
- very large bandwidth and low distortion of the closed-loop ;
- superb manufacturing quality.

It is in fact a true High-End equipment, without cost bargains, in the true spirit of its elder brothers. You will soon discover that our efforts to obtain a great sound have been successful !

Its ability to sustain high current and voltage allow the T-55A to monitor a wide band of loudspeakers, including those which have low impedance or low efficiency. The well known models of the best brands will suit it well for your greatest pleasure : you will enjoy a true high end system, with excellent definition, dynamic, and natural sound !

The T-55A is connected to the output line of your pre-amp, as well as to any other analog line output, provided it supports volume control (multichannel processor, computer soundcard...). For this strategic combination, we recommend of course to use our T-35HP, whose philosophy, design and sound are perfectly phased with the T-55A !

You may also improve your HI FI system performances by using several T-55A in multi-amplification (active or passive) configuration, multichannel system, balanced high power configuration, or combining it with other monoblock amplifiers such as T-53A for example, combinations for which it was exactly thought through : look at calibrated gain and direct line output for example !

### Front panel

- 1 Power-on light.
- 2 Dummy knob.
- 3 Power-on switch.



### Back panel

- 4 CINCH line input IN.
- 5 CINCH direct line output OUT.
- 6 Loudspeaker power outputs + (red) and - (black).
- 7 Power supply (mains) connector.
- 8 Mains voltage specification.
- 9 Individual serial number.
- 10 Power stage heatsink.





## INSTALLATION

### First Power-Up

We invite you to turn your T-55A on before you link it to your audio system or your loudspeaker. First check out the voltage of your T-55A (230V or 115V or 100V in ❸). Then plug in the power cable into ❷, then push the on/off switch ❹. The name T-55A lights up in ❶.

All right ! Switch now your T-55A off and go through the installation process.

### Connecting to a preamplifier

During the installation process we invite you to turn off all equipments of your HI FI system.

The pre-amp (or the processor, the active filter or the computer soundcard...) which monitors your T-55A should be linked to the input IN ❹ by a high quality cable.

Thanks to the direct link output OUT ❺ you will easily connect several T-55A to the same pre-amp, for a passive multi amplification configuration for example.

### Connecting to a loudspeaker

The output terminals ❻ allows you to connect your loudspeaker in several ways :

- with standard jack (diameter 4 mm) : totally unscrew the black and red nuts, and plug in the jacks in the T-55A output terminals ;



- with bare cable, totally unscrew the black and red nuts, insert the cables in the side holes, then firmly screw again the black and red nuts ;



- with cable terminals : totally unscrew the black and red nuts, plug in the cable terminals, then screw again the black and red nuts.



In any case, use only first quality equipment, since it represents a good share of the quality of the sound produced by the system.

Be careful, not to create short circuits between the terminals, or with the mechanical parts of the product.

To conclude, be careful not to invert the phase of plugging of the loudspeaker. It should be exactly followed on all parts of your system, otherwise a distorted stereophonic image would be obtained with a lack of bass.

## USE & MAINTENANCE

### Power On and Off

Although the T53-A is equipped with a on-off switch ❸, it may be left switched on permanently, since the power used is very low when on in use. This will allow optimal electrical and thermal conditions, and ensure an outstanding sound result.

Upon first power-on, or whenever your T-55A has been disconnected from the mains for a long time, it is recommended that you wait for about one hour before use.

Should you not use your T-55A for a long period of time, simply unplug its power cable. It is recommended that when you do so you switch off your entire hi-fi system and disconnect your headset.

Warning : whenever the T-55A is in power-off mode (i.e. disconnected from the power supply) no equipment should be connected to the input/output ❹ and ❺.

### Use

Warning : too high a sound volume used over long periods of time may significantly damage your hearing . Please be reasonable !

Please take the necessary time to adjust the sound level of your pre-amp (or of any device that monitors your T-55A), to obtain a realistic result neither too loud nor too low !

If you turn on the volume too much, not only will you obtain an unrealistic restitution of the music you are listening to, but you will also distort and disguise the sound scene !

When the T-55A delivers a high power for too long, the temperatue inside the product may rise to forbidden levels. In such a case, a thermal protection will be started automatically to reduce the level of the output power : you will notice it through a sharp decrease of the sound level and the appearance of a distorted sound. Do not worry ! Simply turn off the T-55A, let it cool down for a few minutes, then turn it on again , and resume your listening session, at a reasonable sound level if possible.

### Routine Maintenance

Warning : never ever conduct any care & maintenance-related tasks with the power on !

The T-55A was designed to operate for years without any maintenance nor adjustment.

If dust gathers on the unit simply wipe it off with a dry cloth. In case the unit was dirtied or soiled do NOT use any detergent or solvent. Do not either use common household cleaning papers whose textures are abrasive. Use instead a soft wet cloth and if need be soap. Then carefully wipe the unit clean.

## TROUBLESHOOTING

### Front panel light

Upon Power-on, the front panel light ❶ does not come "on" :

- check that the power cord is plugged in ❷, and that your mains is on.

The light ❶ is on but you cannot hear any sound :

- verify the musical program and the pre-amp sound level ;
- verify that your sources, pre-amp and speaker are correctly operating, and that they are correctly plugged to the T-55A.

### Sound

Bad sound quality (e.g. too loud, too weak, background noise, distortion, rumble ...) :

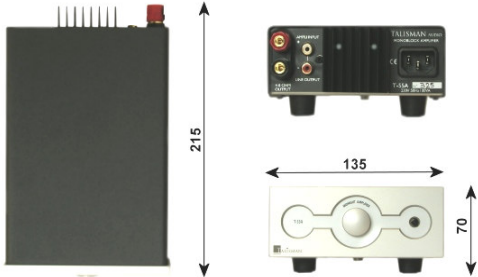
- switch the T-55A off during a few minutes, then turn it on again ; the thermal protection has perhaps been activated. Lower the sound level ;
- check that you have properly observed all installation and operation recommendations ;
- check specifications compatibility of your system with the T-55A.

### After-sale Service

There still is a problem with unit operation. Contact the seller of your unit or use the warranty as set out in the 'warranty' chapter of this manual.

**TECHNICAL SPECIFICATIONS**

Input	1 CINCH mono input.
Outputs	1 CINCH direct mono line output. One loudspeaker output supporting three different types of connections (see installation section).
Output Power	Over 40 W on 8 ohms and 60 W on 4 ohms, at 0,2 % distorsion level.
Gain and Input sensitivity	Gain : +15 (24 dB, phase = 0). Sensitivity : 1,2 Vrms on 47 kohms.
Output impedance	Less than 0,05 ohm @ 1 kHz. Dumping factor > 120 on 8 ohms.
Harmonic distorsion	Less than 0,05 % on 8 ohms, @ 40 W output power, audio bandwidth..
Signal-to-Noise Ratio	Over 90 dBA unweighted, @ max output level.
Bandwith	10 Hz - 160 kHz @ -3 dB, @ 1 Vrms on 8 ohms.
Rise time	Less than 2 microseconds @ 10 kHz, +/- 1 V on 8 ohms.
Stability on capacitive charge	Without conditions, on a 8 ohms charge in parallel with C < 2 uF.
Protections	Thermal and against output short circuits. Against output DC drift. Against DC input voltage.
Specific functions	Direct line output for passive multi-amplification.
Miscellaneous	Very low transient thermic distorsion, without power-on or power-off output voltage pulse, and intrinsically stable electronic structure.
Mains connection	Mains on base CEI with internal slow fuse.
Operating modes	On-Off switch on the front face.
Mains	230 Vac or 115 Vac or 100 Vac. Stand-by power < 5 W.
Weight	1,9 kg.
Dimensions	135 * 70 * 215 mm.



## WARRANTY

Talisman Audio guaranties this equipment when used according to its technical specifications, against any manufacturing defects or component flaws.

This warranty applies to both materials and labor.

In case of defect Talisman Audio will, for TWO years from the purchase date, repair the unit free of charge to the owner. Shipping costs to the Talisman Audio premises shall be however borne by the owner of the unit under warranty.

Under no circumstances can this warranty give rise to any kind of damages or liability.

Talisman Audio guaranties the equipment only if :

- it was purchased either on the Talisman Audio web site, or through an official dealer ;
- the defect occurs within the two years period following the purchase ;
- the defect is not caused by an abnormal use of the product, or by an outside factor ;
- the product was not opened and modified by an outside personne.

The claim for warranty should be made in the following way :

- if the product was bought through an auditorium, please refer to this dealer who will examine your problem, will try to solve it and will give you the correct procedure to contact Talisman Audio, if necessary ;
- if the product was bought on the web site, then tell us directly about your problem using our email adress [amplify@talisman-audio.com](mailto:amplify@talisman-audio.com). You will then receive instructions for the return of your product.

## MANUFACTURING

Talisman Audio products are manufactured by the Get Electronique Company, a French corporation incorporated under the register number RCS Castres 447 794 363.

All design and production procedures are carried out according to strict quality standards ISO9000:2000 (certificat n°124 832).

Talisman Audio certifies that all products delivered to its clients are individually tested and controlled, and that they comply with the acceptance criterias defined for each model.

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