# icon Audio

# **Instruction Manual Covering:**

## Stereo 40 6AS7 Limited Edition





designed by David Shaw



Low Distortion Tertiary wound transformers

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## 1 Introduction

Thank you for purchasing the *Stereo 40 6AS7*. A great deal of care has been taken in the design, selection of components and production of this amplifier. We are sure that you will hear the difference.

In order to get the best out of your amplifier, please read the enclosed notes. Even if you are experienced with hi fi please read the 'quick set up guide'. Should you be uncertain about anything to do with your amplifier please contact us for advice.

Valve (or Tube) amplifiers do the same job as a solid state amplifier, but they do it differently. And whilst solid state specifications look good on paper even quite modest valve amplifiers can have a richer, more textured sound. Your ears will have become accustomed to your old amplifier, sometimes it may take some hours before your ears attune themselves to the new sound.

Your source, loudspeakers and room acoustics will also affect the sound before it finally reaches your ear. Some people find a small adjustment in re positioning their speakers can help too. The

weakest link will always affect the final results when making judgements. Not all recordings are 'equal'! Therefore an amplifier which faithfully reproduces the input signal will also reproduce imperfections in the tonal balance and the recording itself. Setting up and judgements should be made with a 'clean' well balanced recording.

### What is the ST40 6AS7?

This amplifier is a push-pull pure triode integrated amplifier, running in class a/b mode, using the excellent 6AS7 valves in split bias mode. The driver and phase splitting is all triode. The preamp is a high quality 'Passive' circuit using silver audio cable and an ALPS 'blue' volume control. It is sensitive enough to be used with all modern source equipment having an output of 250mv or greater. Its simplicity coupled with point to point hand wiring without the use of printed circuit boards results in an open euphoric sound that is wonderfully detailed and warm sounding.

# 2 Final Inspection - Your Guarantee of Quality

To assure you of optimum performance and reliability, this amplifier has passed our rigorous final inspection and listening test by the Icon Audio team in Leicester. During which the final set up and adjustments were made.

Date	/		
Model			
Amp Serial Number			
Customer			
Check amplifier finish			
·		Remote Control Function	
Internal wiring check	•••••	Sales invoice	
Check Triode mode	•••••	Bottom label	
Run min 6 hour test		Credit card receipt	
Check inputs & tape monit	tor	Customer survey form	
Output Valve Bias level	mv	Bias meter	
Sound Quality			
Channel Balance		Transformer Protection	
Valve Microphony		Upgrades:	
		Output valves	
Valve Seating		1 <sup>st</sup> Stage valve	
Hum level left/right	/mv	Phase splitter valve	
RF Test		Rectifier valve	
LED brightness		Maina lagal	
Serial No sticker and recorded		Mains lead	
Mains voltage	115 / 230-240V	Interconnects	
IEC Mains Fuse	T1.6 Amp		
Signed off by			
Notes:			

# IMPORTANT! READ THIS ALL THE WAY THROUGH FIRST

# 2 QUICK SET UP GUIDE

#### **Box contents:**

Amplifier, remote control, mains lead, manual, bias meter. 4x 6AS7 2x 6SN7, 6SL7, 274B/GZ34

- **1 Unpack unit carefully** and check that it is in good condition. Transit damage must be reported to Icon Audio within 3 days. It is important that you keep packaging for warranty/service return.
- 2 If necessary fit the valves, or check that they are firmly in place. (SEE DIAGRAM) The larger four 6AS7s should be fitted first observing the numbers 1,2,3,4 on the rear of the valve; this corresponds with the four sockets from left to right viewed from the front. This is essential as each valve is 'set up' in this position. Do not push or pull the output valves excessively by the glass, this could cause the glass envelope to become detached from the base, damaging the valve. Note the orientation of the "spigot" in the middle of the pins which lines up with the sockets of all the valves.

Then fit single 274B/GZ34

Then fit the three smaller valves in the sockets along the front valves noting the numbers. The middle one is a 6SL7, the outside pair are 6SN7. The 274B rectifier valve should be fitted in the centre position.

- **3 Connect to source units**, e.g. CD, Tuner, Tape, Phono pre amp (if used) etc via appropriate phono sockets.
- 4 Connect to speakers making sure that the correct impedance (ohms) is chosen, (see back of speakers). Most modern speakers are 6 ohms which so this is not critical (see Ch 3), if you are not sure start by using the 8 ohms (and "0") terminals. Don't forget to get the correct polarity of speaker cables. (See speaker connections chapter). If 'bi-wiring' both 'common' should go to the black terminal, and both 'positive' (or red) should go to either 4 or 8 ohm terminals.
- 5 Connect to mains supply using supplied IEC mains lead to 220/240v supply. If for some reason the welded plug must be removed, please remove fuse and dispose of immediately. (As they can be a danger to children if plugged in). The replacement plug should be wired in the following way Brown to Live terminal, Blue to Neutral terminal and Green/Yellow to Earth.
- 6A Put the STANDBY switch in the "up" position.
- **6B SWITCH ON!** The front LED should light and the valves will take approximately 60 seconds to start working. All valves should have a visible orange glow from the cathode heaters. After 60 seconds push the standby switch down. The amplifier should now be working.
- **6C The Volume** control will "re-set" on switch on to aprox "9pm" position. There should be no

sound coming from the speakers except a barely discernable gentle hum. If there are any unexpected sounds coming from the speakers, switch off and refer to the 'Trouble Shooting' section or contact your dealer or Icon Audio.

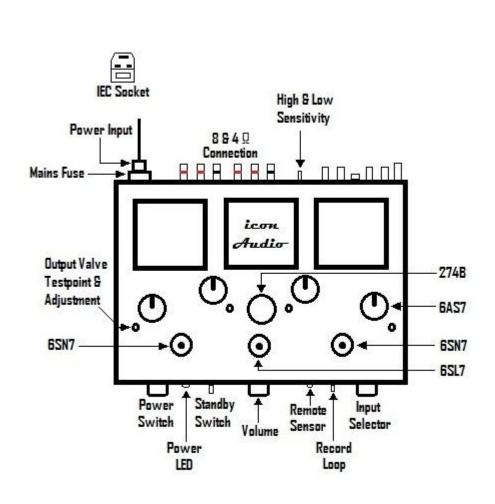
If you do not intend to use the amplifier for a few hours you can switch into "standby", when it will use minimal power and be ready for use "instantly". In standby you may hear low distorted sound from the speakers if you have a source playing. This is normal, reduce the volume!

- **7 Your unit should now be functioning**. If not check wiring again and/Use selector/tape monitor/volume to choose source program and suitable listening volume. Do not operate at a high volume for the first five minutes to allow the valves to warm up properly.
- **8, Remote Control.** If the batteries are OK (2x AAA) the LED should light when any of the keys are pressed. A little skill is needed in pointing and pressing, as the unit has a motorised "pot" which may not be as responsive as your TV.

# Please note all these things are normal for valve amplifiers:

- A, Valves can get very hot, BEWARE!
- B, The power transformer will get quite warm
- C, The amplifier may smell slightly for a few weeks.
- D, Mobile phone 'breakthrough' is normal.
- E, Valves may make a 'tinkling' sound when warming up and cooling down.
- F, The volume control may sometimes appear to sound 'Scratchy', this is not a fault!
- G, Valves occasionally "Pop" or "Crackle". If this is regular problem it could be your CH boiler/cooker/fridge etc. (see trouble shooting).
- 8 Health and Safety. The valves when operating have high surface temperatures. Keep out of reach of children and pets. The use of the supplied guard is recommended in these circumstances. Always unplug when making adjustments. Like all amplifiers there are potentially lethal high voltages inside (over 400v DC), which when switched off can take twenty minutes to discharge! Do not remove bottom panel unless you are a competent engineer. There are no user serviceable parts Like other household electrical inside. appliances do not leave unattended whilst switched on. Do not adjust the output valve grid bias pre sets without reference to the manual. Incorrect adjustment could cause the valves to overheat, with resulting in damage to valves and amplifier.

To maintain the best performance of the amplifier you should check the bias of the output valves from time to time (say twice a year). Full details will be found in section 7.



# 3 Connecting inputs & outputs

Many problems associated with electronic equipment involves connecting leads, which are usually either 'BAD CONNECTION' or a 'WRONG CONNECTION'. So it's worth making sure that you have good connections and that your leads are the right way round.

#### **Inputs**

The amplifier will work with any standard piece of hi fi e.g. CD, Tuner, Tape Deck, Mini Disc, TV, Video Recorder, DVD etc having an output of 250mv or more, to get full power.

If you wish to use a turntable you will need a suitable phono pre-amp. Icon Audio or your dealer can advise you. Our new all valve phono stage is an ideal partner.

## "H" & "L" sensitivity/Power Amplifier mode.

Located on the rear of the amplifier the High and Low sensitivity switch has two functions. The "High" setting should normally be used when used as an integrated amplifier. The "Low" setting may be used if the ST40 is used as a power amplifier with a pre amplifier, as pre amplifiers generally have a higher output. In this mode of operation it is suggested that the volume control be fully clockwise, (the volume control is then effectively "out of circuit") and volume be controlled on the pre-amplifier for best results. The tape input will provide the most direct signal path. If you have too much gain Icon Audio can modify to suit your requirements. The feedback switch may also be used if you prefer a generally lower volume level.

**Feedback.** The sensitivity switch does not attenuate the signal, but alters the gain by adjusting the feedback within the amplifier. In "H" the feedback is low, in "L" position there is zero global feedback.

## Connecting a tape deck/Recorder/Equaliser

The STEREO 40 will work with any tape deck having suitable output, and it is possible to record from any connected source using the terminals marked 'Pre-out'. The STEREO 40 has a 'Tape Monitor' facility, which enables you to use a 'three head deck' or an equalizer.

Some tape decks 'Present a load' to the amplifier terminals, even when not in use, which can affect sound quality. (You can do an audible check for this by removing the plugs and listening for a change). Therefore for best results do not leave anything connected to "Rec out" unnecessarily.

### Connecting loudspeakers

It is important to use good quality loudspeaker cable. This should be relatively thick and mutistranded. i.e. QED 'Original' or better. Take care to connect the correct polarity. The use of 'Banana plugs' or 'spade' connections will ensure a good connection whilst minimising the risk of 'shorts'.

In our experience valve amplifiers are more tolerant of cables, therefore the benefits of very

'exotic' cables may be wasted! But this is personal taste. Icon or your dealer will advise you.

As all cables have losses, keeping the speaker cables short is best. It may be better and be cheaper to re-arrange your room and use shorter cables than to spend a fortune on longer cables! You can either 'hard wire' your cable to the amplifier by baring enough cable to fit in the connector and twist together to avoid any spare strands touching anywhere else (soldering the stands together helps). Be warned this amplifier does not have an output protection device, which would degrade the sound. So a prolonged short due to strands of wire touching damage could the valves. Alternatively use good quality 'banana' plugs, once fitted they are trouble free.

Speaker polarity. It is essential that you observe the polarity of the terminals; they must be the same for the left/right connections at the amplifier end and at the loudspeaker end. Otherwise the sound will be 'out of phase' with the sound stage 'inside out' with reduced bass. If you are unable to check this or confirm the polarity (e.g. if you have 'built in' wiring), try the following; Connect the system up and play some music with plenty of bass (e.g. dance music), preferably in mono (FM tuners are usually switchable to mono) and stand the speakers close together. If correct you should hear plenty of bass, if not reverse the terminals for one channel only, either at the amp or speaker. You will now hear more, or less bass. The higher bass output is the correct setting to use. Another alternative is to use a test disc. If you are 'bi-wiring' your speakers use only two terminals, you must use only 4 or 8 ohms (plus "0" black terminal), not both, as this will not load the amplifier properly.

The STEREO 40 is designed to work with full range, medium to high efficiency having impedance of 4 ohms to 8 ohms. Speakers having efficiency of lower than 86db will have greater difficulty in providing a high sound level. But this will also depend upon individual speakers, room size, type of music and positioning etc.

**Speaker impedance.** It is important to use the correct speaker impedance terminals, as this will give the best sound quality and power matching. If using 15-ohm speakers use the 8-ohm connections. If you are unsure or "6 ohms" or "4 to 8 ohms" is quoted; a rule of thumb guide is to try both positions. The loudest being the best match. Although your personal taste should be the final deciding factor.

Do not connect to more than one pair of terminals for each channel. If two pairs of speakers are required to be connected, they must both be 8-ohm and connected 4 ohm terminals. Contact Icon Audio for more information. Damage could be occur if care is not taken.

# 4 How to get the best out of your amplifier

- Do not leave the amplifier switched on all the time. This is not necessary
- Do not switch off and on without a rest of 60 seconds (this could blow the internal 500ma AS fuses)
- Do not adjust the output valve grid bias without reading the procedure
- Do not operate the amplifier without loudspeakers connected
- Do not use valves other than listed as this could be dangerous and damaging to the amplifier
- Remember to check the bias about twice a year for best performance.
- Make sure the speakers are in phase.
- Use the best possible source material.
- Use efficient, well-designed speakers.

#### What is safe maximum volume?

The Stereo 40 6AS7 will run happily all day long at maximum power; the valves are not stressed any more at full power than at zero volume. Running into gross distortion will however stress the whole amplifier. To find the maximum safe volume, play full range music and advance the volume until distortion occurs, (this is normally between 12 and 3 o'clock on the volume control) back off the volume control about 30 degrees, this is approximately full music power. However this position will vary according to the level and type of music and the output of the source unit. For example CD players tend to be higher than say tuners or phono stages.

## Leaving the amplifier switched on

Do not leave the amplifier switched on 24/7. Your valves will be worn out in approximately nine months! Whilst the amplifier will sound at its best when it is properly warmed up, there is no advantage leaving it switched on when it is not in use. See (Standby Switch). We would always advise that any item of home electronics is switched off when not in use Standby Switch

If the amplifier is not needed for a few hours, it can be left in the "standby" state. This enables the valves to be fully warmed and ready to use the instant you put the standby switch down. In the "standby" position the amplifier is only using about 50% of normal power. It also enables a healthy cloud of electrons to build up around the hot cathode. Also it allows the silver

"getter" inside the valve to "mop up" any gas that has built up inside and therefore keep the vacuum "hard" for best performance. There is no benefit to leaving the ST40 on standby indefinitely. If not in use switch off!

## 'Burning in'

Although the amp should sound good within about 10 mins it can take up to an hour to sound at its best and will take several months of regular use before it is fully 'run in'.

## **Upgrading Valves!**

Good quality new valves sound better, have good performance and reliability. The upgrade valves supplied with selected models are the result of careful comparison with other makes. But beware paying excessive amounts for "New Old Stock", second hand or "Fake/copy", valves. At the time of writing (07.2011) there are good stocks of Russian, Chinese and US military valves (military number 6080) available. Svetlana and Sovtek are making new 6AS7s.

### Cabinet Care

To remove dust we suggest gentle brushing of the polished stainless steel cabinet with a soft paintbrush. Other marks can usually be removed with a damp cloth. The Perspex valve cover may need a gentle wipe with soapy water and drying with a duster. On no account use anything wet on the amplifier, and always clean with the power disconnected.

# **5 Trouble Shooting**

## **Amplifier Dead**

Check the amp mains fuse in the small drawer in the IEC mains socket at the back of the amplifier. To gain access, remove the mains lead. The fuse is in a small plastic drawer, which forms part of the socket assembly. To open insert a flat bade screwdriver or similar and prise open. The fuse in use is the innermost the outer is a spare. Should the replacement fuse also blow there is a fault. Replacements should be 1.6 Amp 'anti-surge'. Available from Icon Audio free! contact us and we will post them to you.

The fuse in the UK wall plug should be a 3 or 5 amp fuse, this should be checked if the amplifier fuse is OK. If one channel only, has stopped working it is likely to be one of the two internal left and right HT fuses. There are 2 spares inside. You should refer to your dealer or Icon Audio if you suspect one of these to have blown. If this is not possible you should disconnect power for 20 mins, invert the amplifier on a soft surface and remove the bottom cover (where the spares are located) and replace if necessary. If the fuse blows again there is a fault. Replacement fuses are 500ma AS (or T).

### No sound

Have you selected the right input? Are the connections OK? Is everything switched on? Are the speakers connected?

#### Distorted sound.

Try another source; if sound improves then it's probably something wrong with the first source. If no improvement try different speakers, if no improvement could be an amplifier problem.

## **Hum Problems**

If you experience hum, try disconnecting all inputs, if hum persists this is probably an amplifier fault.

If not, identify which input is causing hum. Connect one input at a time. A common cause is a 'hum loop' caused by having too many earths, and may be identified by unplugging each input source from the mains. One remedy for this is to use an interconnect which only has the screen connected at one end. Other causes of low-level hum can be from adjacent equipment, so experiment with moving equipment around to see if this makes the hum better or worse.

#### Interference Problems

The amplifier design incorporates features and devices which make it resistant to mains-born interference. But some CH boilers/fridges/cookers etc can generate RF (radio frequency) interference which travels through the air (and walls). Although rare this can be very irritating. Usually a simple cure by fitting a capacitor to the offending unit will effect a cure (ask us).

## One channel missing.

Usually 'bad' connection on either the input or the speakers. Try swapping the connection over to establish if the cause is:

- (a) Input to the amp. Sound will move to the other channel.
- (b) Amplifier or speakers. Sound will not move.

### Also see internal fuses above

Strange noises coming from speakers:

Turn volume to minimum on unused input, if problem corrected either fault with source unit or with connection. If noise persists, problem with amplifier.

If a whole output valve glows red (other than the heater), often accompanied by a hum through the speakers, switch off immediately, and refer to Icon Audio or a service engineer, as this could be valve failure.

A valve that is lit up is not a guarantee that it is working properly; conversely a valve that is not lit up will not be working (usually cold to the touch).

#### Valve Replacement (see also section 7)

Valve life will depend upon such things as hours of use and number of on/off cycles, Do not switch on and off unnecessarily (see **Standby).** Also it is not good practice to remove the valves unnecessarily as this can strain the pins and cause tiny air leaks.

**Service:** Should you suspect a problem, you could return the unit to Icon Audio for a periodic service or return the valves for testing free of charge. You should carefully remove the valves (hold the base when removing, to prevent detaching the glass) numbering them with a marker from left to right as you do so in order that that may be replaced in the same position. They should be well packed in cardboard & foam or similar, and returned to Icon Audio for testing. (Valves are very rugged if packed properly).

#### **Mains Supply**

This amplifier is hard wired to work on 230/240v ac. The transformer may easily be re-configured for 110/120v ac. Contact us for more information.

# 6. Bias Checking & Adjustment

The bias voltage for this amplifier is 330mv DC

The Stereo 40 6AS7 uses the 'Split Bias' method of valve operation. This has the advantage of higher power, lower feedback and cooler running. However it is important that the bias is checked at least twice a year using the supplied meter to ensure best performance from the amplifier.

This is a safe procedure which involves measuring 0.33v/330mv in each of the four sockets next to each 6AS7 and adjusting if necessary. This need not be 100% accuracy and minus 10% i.e. 300mv to 350mv will have virtually no effect.

1, <u>Tools you will need:</u> The supplied meter or one set to measure approx 2 or 3 volts DC, and a small flat blade screwdriver. Adjustments are done at zero volume with speakers connected. Run the amp for at least 20 mins (if it is working correctly). Otherwise do a rough adjustment and check later when the ST40 is hot.

The Icon meter reads in mv (millivolt=1v/1000). So 0.33v will read "330mv".

2, <u>Connect:</u> the black probe to the chassis 'earth' by unscrewing the '0' speaker terminal and tightening the probe in the exposed hole. And the other in the test socket adjacent to the valve on test. See pics.. Set the 'lcon' meter to 2000mv (2v) or the 'black mark'.



Making the 'earth' connection.

- 3, <u>Checking:</u> You should get a reading of 330mv if the valve is working correctly. But bear in mind that your mains voltage fluctuations can affect your readings up to 10%. Check all valves, they should be within about 10% of the ideal voltage.
- 4, <u>Adjusting:</u> If the reading is incorrect, set this by using the bias adjuster in the centre. They are very sensitive so adjust very carefully; use tiny turns of the screw. If the reading appears a little unstable this is normally due to mains fluctuations.
- 5, If one or more valves are showing erratic readings or you cannot set the correct voltage, then that valve is probably faulty or out of specification. If you are unable to set the reading high enough this means the emission of the valve is low.



Showing a probe reading 1st output valve

If you are unsure about any aspect of bias contact your retailer, Icon Audio or a competent service engineer. Icon Audio provides a free bias check and "health check" for your amplifier and valves.

# Replacing the 6AS7 Valves

Important: Do not attempt to change the 6AS7s without reading these notes. Failure to do so could be both dangerous and damaging to the amplifier. When replacing valves, it is important that you use a "matched guad" or two matched pairs if possible.

<u>Health & safety</u>: High voltages are present inside the amplifier and on exposed valve sockets when valves are removed, so take suitable care. It is not necessary to remove the bottom cover. Beware valves get hot in operation!

5, <u>Changing valves</u>: You should if possible check the bias setting before you attempt to change the valve(s), in order to familiarise your self with the procedure.

The safe way is to change and check one or two valves at a time. Remove the first old valve and fit the replacement. Switch on and measure bias, you should be setting the reading for each valve to about 300mv (0.3v), Do not allow the reading to go temporarily above 800mv. Don't worry how low the reading goes this will not cause any problem. Continue in the same way and fit all four valves. Do final adjustment when the amplifier is fully warmed up.

#### TIP:

6AS7 valves can take a long time to stabilise, in which case set to a lower level of say 250mv and increase by small degrees until the 330mv is not exceeded when the amp is fully warmed up.

If all is well there should be no more than a barely detectable hum from the speakers, and the amplifier should sound OK when tested.

6, If you cannot set up the 300mv then the valve is probably faulty, worn out or unsuitable.

If the valves are brand new, you will need to check again after approximately 10 & 100 hours, after that only occasionally or if you suspect a problem.

NOTE: If you are changing to a different brand of valve, be ready to change the bias quickly, as the difference in setting may be quite large.

7, VALVE TYPES: To avoid damage to the amplifier and electric shock hazard you must use only output valves marked 6AS7 (6080, Chinese 6N5, Russian 6H13), Driver valves marked 6SL7 (6N9/6H9/6188), 6SN7 (6N8/6H8/CV181) Or that you know to be direct equivalents. Use only valves which you know to be new or good condition and test the amplifier thoroughly before resuming normal use.

## **DANGER!**

THE ST40 6AS7 CAN ONLY USE THE 6AS7 VALVE. (OR EQUIVALENT US 6080, Russian/China 6N5/6N13) DO NOT USE ANY OTHER OUTPUT VALVE AS DAMAGE WILL RESULT

## 8, Replacing the small valves:

**6SL7** (centre) and **6SN7** valves. Neither of these requires any set up procedure. It's just 'plug and play', although care should be taken when removing and inserting not to break the centre spigot. (These valves

are similar with the same pin connection; accidental wrong insertion would not cause damage).

Icon Audio are happy to check the valves/amp or rebias your amp free of charge.

9, 274B Rectifier. This should normally last longer than the audio valves. Replacements may be obtained from Icon Audio. Alternative valves to use are GZ34, 5AR4, GU5.

\*RMS watts Do not literally exist! But this figure is based upon the RMS voltage output ( $V^2/R$ ).

\*Push Pull is a very elegant way of virtually cancelling out non linear distortion, noise and hum. Whilst dramatically increasing the power and damping factor. In Class AB about 1/4 of the output is pure class A. Unlike transistor designs there is NO crossover distortion before the amplifier reaches full output.

# 7 Specification & Features

(Typical conditions @ 240v 50Hz)

- 6AS7 output valves
- 6SL7 double triodes for first stage
- 6SN7 double triodes phase-splitter
- 274B/GZ34/5AR4 full wave rectifier
- No feedback used (integrated operation)
- Icon hand wound transformers with Tertiary winding.  $5\Omega$  cathode resistance
- Hand wired point to point components
- No printed circuit board
- No tag board
- Ceramic valve bases for low noise/leakage
- HT delay circuit to protect cathodes (optional)
- 22w RMS each channel @ clipping
- Signal to noise level -90db
- Freq response 20-20kHz ±1db
- Power bandwidth 10hz-30khz
- 0.1% THD at 10 watts
- 4 and 8 ohms output taps
- Choke regulated power supply
- Supplied with attractive safety guard
- Audiophile quality metal film resistors
- Audiophile quality polypropylene audio caps
- Japanese 'Blue' ALPS volume pot.
- Rubicon/Nichichron power caps.
- Internal wiring using PTFE silver cable
- Valves carefully matched for best performance
- Gold plated Input & speaker terminals
- Inputs for CD, Tape, Tuner, Aux
- Tape monitor
- 280mv sensitivity for full output (integrated)
- 680mv sensitivity for full output (power amp mode)
- 230/240volts, 76w SB, 185w Min, 260watts max
- 1.6 amp AS rear fuse (with spare)
- Internal 2x 500ms AS (with spares)
- 390W, 210H, 410D Amp overall 23kg
- Carton= 34x48x36cm 26kg packed
- IEC mains lead, (5amp fused)
- Conforms to CE ROHS and WEEE where applicable Specification subject to change without notice.

# 8 Guarantee

In the UK the this product is guaranteed by UK law for 12 months from date of purchase by the dealer you purchased from (including Icon Audio if purchased directly from us). Icon Audio are not responsible for products purchased from other dealers for repairs and service, for service under warranty you should contact that dealer directly. If your dealer no longer exists for any reason Icon Audio are will assist you. For out of warranty service you are strongly recommended to contact us directly are as we are obviously expert in knowledge, upgrades and have the original spares in stock.

### **OUTSIDE THE UK**

Your dealer will be responsible for the warranty (including Icon Audio if purchased directly from us). Technical assistance is available either by email or phone.

By their nature some components such as valves have a limited life and therefore guaranteed by value on a 12 month pro-rata basis.

All units are individually tested for performance for at least twelve hours before despatch to you. In the unlikely event that you believe the unit is not functioning correctly, it may be helpful to contact us first as we may be able to assist you. Then we would request that you return the item to us for further action.

This condition also applies to products bought from Icon Audio outside the UK.

Products bought from dealers outside the UK will have that countries applicable guarantee law applied.

You are advised to inform us of any change of address or ownership in order that we may keep you up to date of any upgrades or improvements. Check our website.

#### **Exclusions**

Claims for any damage to either amplifiers or valves must be reported within three days of receipt.

This amplifier is designed for normal domestic hi fi use. It is not guaranteed for commercial, Public Address use, or use in other situations. The guarantee becomes void if the unit has been modified in any way not approved by Icon Audio.

# 9 Packing Instructions

When you need to ship a product it is essential that the original box and packing be used for maximum protection.

Please do not write on box, but use removable labels. If returning for service do not send the cover, as this is easily damaged. We recommend that the cover be sent separately as rough handling may damage both the cover and amplifier cosmetics.

- Re-use the supplied plastic bag to keep the amp clean and free from damp.
- The mains lead fits in a foam cut-out underneath the amplifier.
- Insert the piece of cardboard between the transformer cover and the valve guard; this will prevent the valve guard scratching the transformer paintwork.
- Valves should be removed, numbered and packed in "bubblewrap" or similar for protection inside the valve cover.
- If the amplifier is stored it is best kept in the box, keep upright in dry conditions.

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