

QUAD 90

QUAD 303

User Manual

3 YEAR WARRANTY

Scan the QR code using a smart-phone device, for product warranty registration online.

Important Safety Information



This lightning flash with an arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of non-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.

Warning: To reduce the risk of electric shock, do not remove the cover (or back) as there are no user-serviceable parts inside. Refer servicing to qualified personnel. The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance instructions in the literature accompanying the appliance.

Read these instructions. Keep these instructions. Heed all warnings.

Follow all instructions.

Do not use this apparatus near water. Clean only with a dry cloth.

Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

Do not defeat the safety purpose of the polarised or grounding-type plug. A polarised plug has two blades with one wider than the other. A grounding plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for the replacement of the obsolete outlet.

Protect the power cord from being stepped on or pinched, particularly at the plugs, convenience receptacles, and at the point where they exit from the apparatus.

Unplug this apparatus during lightning storms or when unused for long periods of time.

Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilt or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

CAUTION: These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

Do not install this equipment in a confined or built-in space such as a bookcase or similar unit, and keep well-ventilated in an open space. The ventilation should not be impeded by covering the ventilation openings with items such as newspapers, tablecloths and curtains.

WARNING: Only use attachments/accessories specified or provided by the manufacturer.

WARNING: Please refer to the information on the exterior panel of the enclosure for electrical and safety information before installing or operating the apparatus.

WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. The apparatus shall not be exposed to dripping or splashing. Objects filled with liquids, such as vases, should not be placed on the apparatus.

WARNING: For the terminals marked with the symbol of " ϟ " may be of sufficient voltage to constitute a risk of electric shock. The external wiring connected to the terminals requires installation by an instructed person or the use of ready-made leads or cords.

Ground protection terminal. This product should be connected to a power outlet with ground protection.

Denmark: Apparatets stikprop skal tilsluttes en stikkontakt med jord, som giver forbindelse til stikproppens jord.

Finland: Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan.

Norway: Apparatet må tilkoples jordet stikkontakt.

Sweden: Apparaten skall anslutas till jordat uttag.

WARNING: No naked flame sources, such as lighted candles, should be placed on the apparatus.

THE FUSE VALUES ARE:
220 – 240V (UK, China, etc.) T 2.0AL 250V Slow Blow
100 – 120V (USA, Japan, etc.) T 4.0AL 250V Slow Blow

Contents

QUAD 303

Getting Started 03

Connections and Functions 04

Connections 05

System Operation 06

System Connection 07

Warranty 09

Specifications 11

Getting Started

Welcome to the QUAD 303.

Features

- Class AB power amplifier with the QUAD Triples output stage
- Stereo/bridge mode selection

In stereo mode, one QUAD 303 can drive a pair of speakers with a maximum output of 2 × 70W into 4 ohms.

In bridge mode, one QUAD 303 can drive one speaker with a maximum output of 170W into 4 ohms.

Inputs

- One pair of unbalanced analogue (AUX) inputs
- One pair of balanced analogue (XLR) inputs
- One 12V trigger input

Outputs

- One pair of speaker output
- One 12V trigger link output

Unpacking the Equipment

The carton should contain:

- The QUAD 303
- One IEC power cable suitable for your region
- One user manual

Consult the dealer from whom you purchased the equipment if any item is not present.

Carefully unpack the unit and accessories. Take care not to damage the surface finish when undoing the protective polythene sleeve. Retain the packing materials for future use. Retain the user manual and information concerning the date and place of purchase of your equipment for future reference. If you transfer the unit to a third party, please pass on this instruction manual along with the equipment.

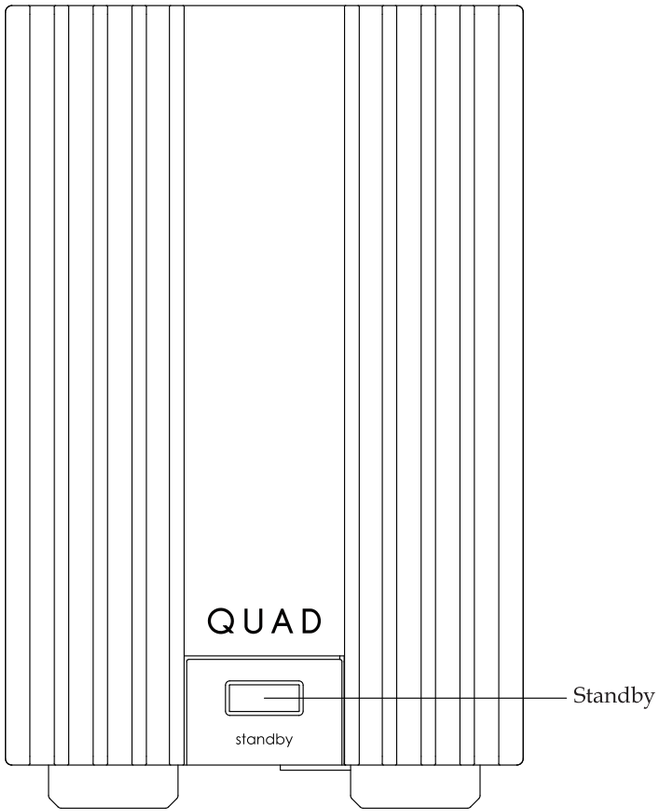
Placement

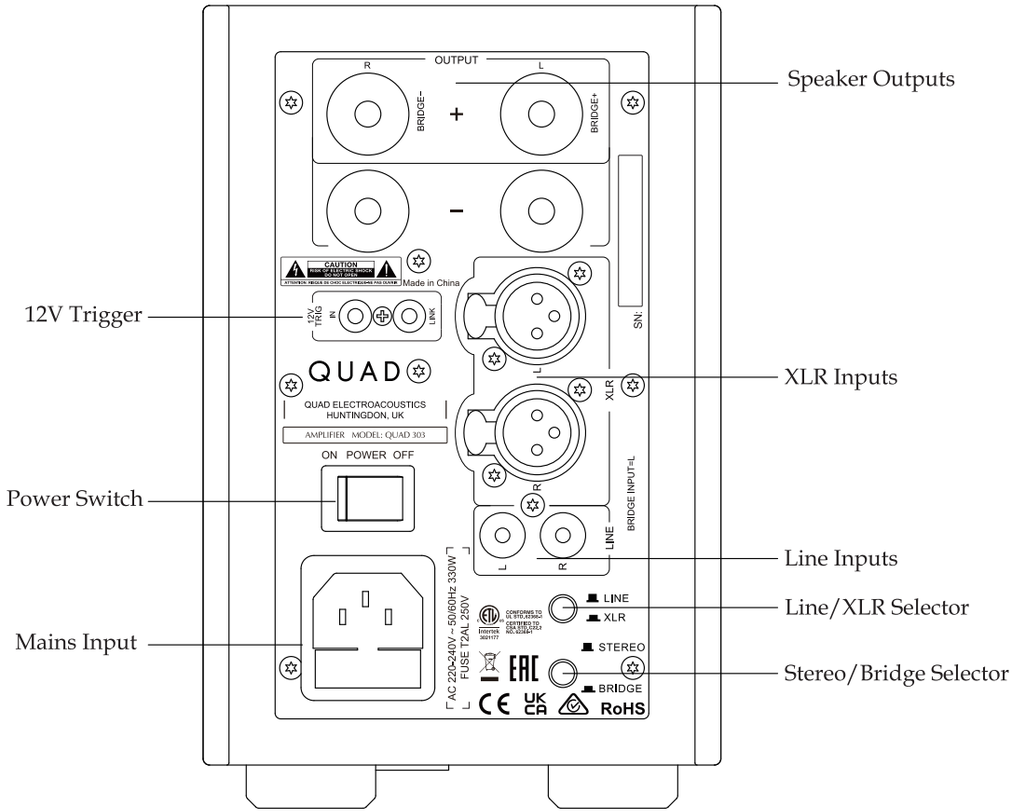
Provide plenty of ventilation around the unit to avoid a build-up of heat.

Mains Supply

Before you connect the QUAD 303 to the AC mains power, ensure your AC mains voltage corresponds to the rating on the rear panel of the product. If in doubt, consult your dealer. If you move to an area that has a different mains voltage, seek advice from a QUAD-appointed dealer or a competent service technician.

Connections and Functions





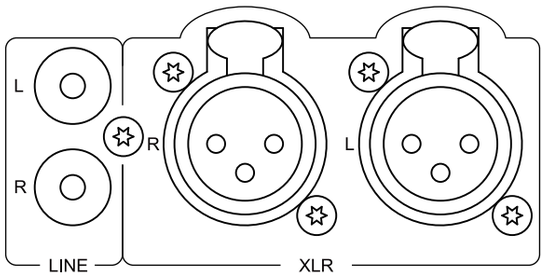
Connections

Balanced Input (XLR)

Balanced connections can provide greater dynamic range and lower noise. We recommend that you connect your QUAD 33 (or other preamplifier) to your QUAD 303 balanced inputs using a pair of balanced XLR cables. Ensure that the Line/XLR selector button is pressed 'in' to activate the XLR input mode.

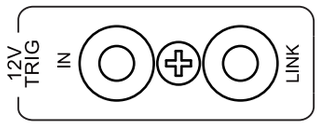
Unbalanced Input (LINE)

Connect the line outputs of your QUAD 33, or another preamplifier, to the LINE inputs of the QUAD 303 using a stereo RCA cable. Ensure the LINE/XLR selector is in the out position to select the LINE inputs.



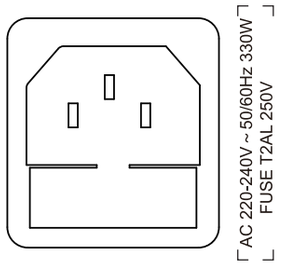
12V Trigger Connection

The QUAD 303 has one 12V trigger IN and one 12V trigger LINK output. Connect either trigger output of your QUAD 33, or another compatible device, to the trigger IN of the QUAD 303. The LINK output can pass the trigger signal to another compatible device, such as a second QUAD 303.



Mains Input

Before connecting the AC power cord to the QUAD 303, please make sure the Power Switch is in the OFF position. Switch it to the ON position after connecting the unit to the AC mains.



System Operation

06

Switching On and Off

The QUAD 303 should be switched on after the preamplifier in your system. When switching off your system, turn off the QUAD 303 power amplifier before switching off the preamplifier (the QUAD 303 should be ‘last on, first off’).

Standby Mode

After initial power-on, the QUAD 303 will be in 'Standby' mode. The standby button will be dimly illuminated. To use the QUAD 303, press the Standby button to switch on the amplifier. The Standby button will illuminate fully.

Auto Standby

By default, the auto-standby feature puts the unit into standby after 20 minutes of inactivity. This feature can be configured and set to 20 minutes, 1 hour or 'never'.

Press and hold the front-panel Standby button for five seconds to enter the auto-standby setting. Press the button again to cycle through the available options. The number of LED flashes indicates the selected setting:

Never: one flash

20 minutes: two flashes

1 hour: three flashes

Source Select

Use the rear-panel LINE/XLR selector to select the required input.

Bridge Mode

The QUAD 303 can operate as a stereo power amplifier or as a mono power amplifier in bridge mode. The default setting is STEREO mode.

To activate Bridge mode, press the STEREO/BRIDGE selector button in’.

You will need two QUAD 303 amplifiers if using bridge mode (one for each channel). Connect the QUAD 33 to two QUAD 303 in the bridge mode connection as shown in the following section of this manual.

Protection Mode

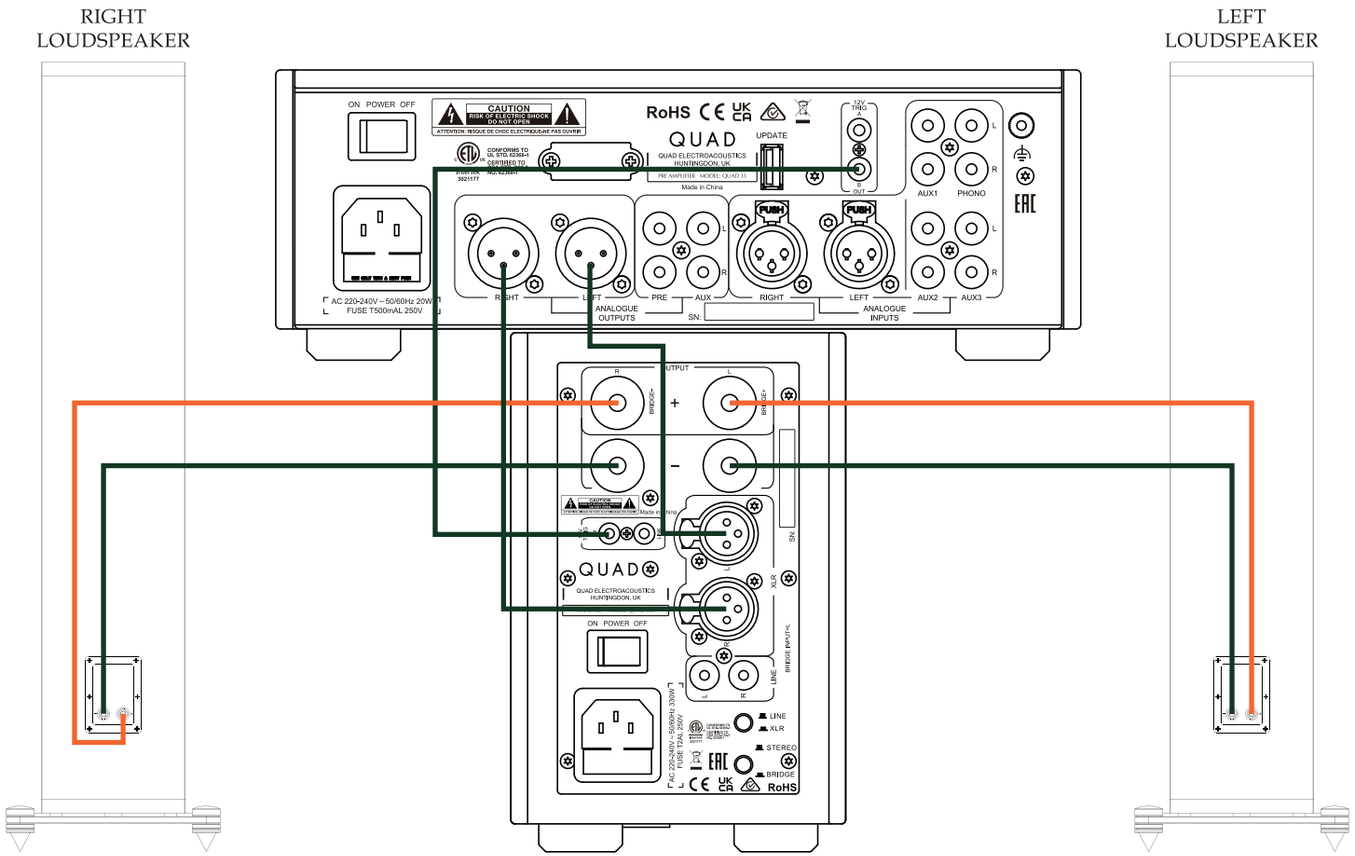
The QUAD 303 incorporates protection against excessive temperature, overload and short-circuited speaker outputs. If the protection system is activated, the power indicator flashes and the amplifier output is muted. Switch off the amplifier, disconnect it from the mains supply and allow it to cool. Check the speaker connections and ensure adequate ventilation before switching it on again.



System Connection

Stereo mode with QUAD 33

Set the rear-panel STEREO/BRIDGE selector to the out position for stereo operation. Connect the system as shown below.

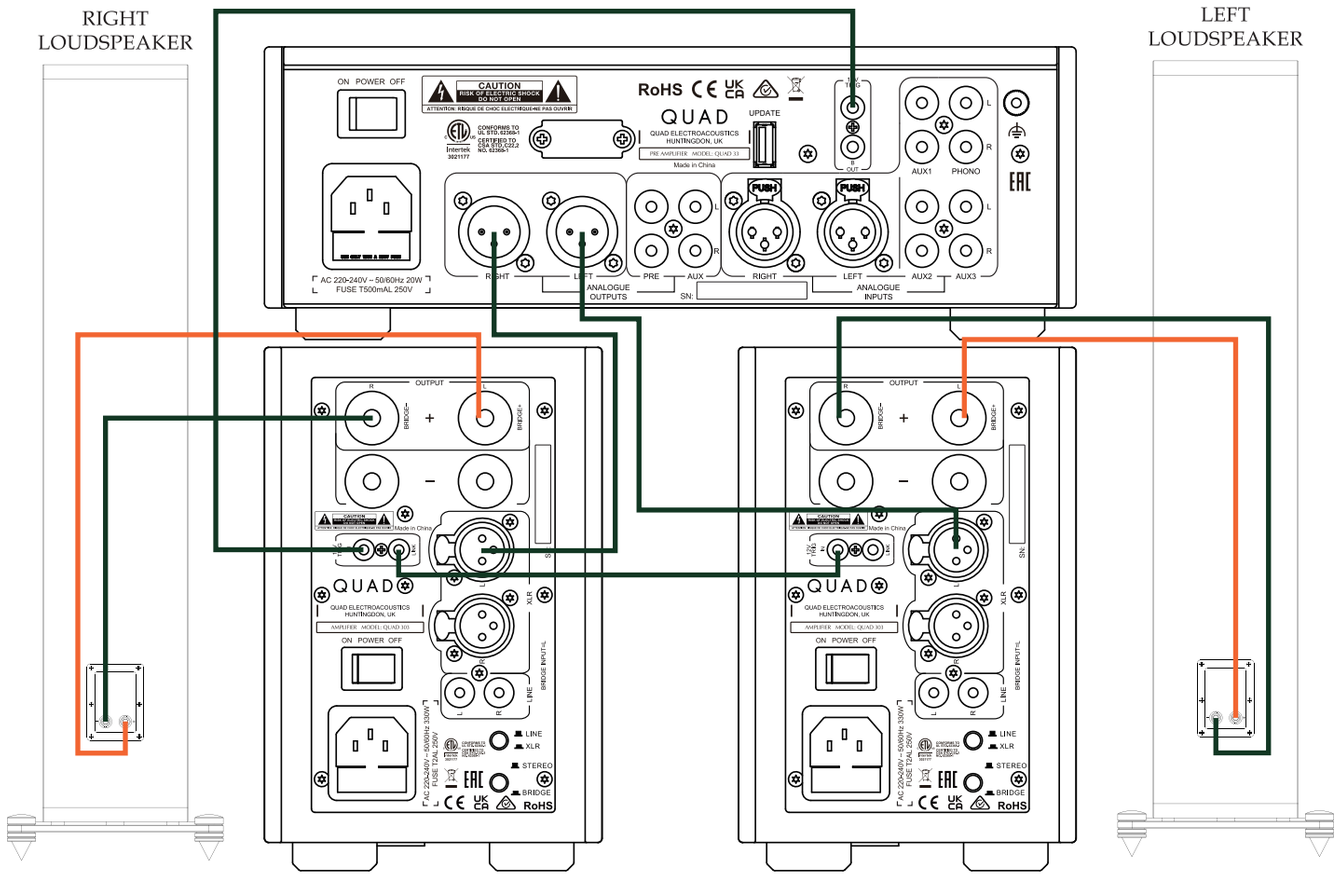


Bridge mode with QUAD 33

In bridge mode, connect each loudspeaker between the two positive speaker terminals of its corresponding QUAD 303, as shown below. Do not use either negative terminal.

In bridge mode, connect the preamplifier signal to the left-channel input of each QUAD 303.

Set the STEREO/BRIDGE selector on the rear panel of each QUAD 303 to the in position.



Warranty

QUAD warrants this product, subject to the terms and conditions below, to be free from defects in materials and workmanship. During the warranty period QUAD will repair or replace (at QUAD's option) this product, or any defective part in this product, if it is found to be defective due to faulty materials, workmanship or function. The warranty period may vary from country to country.

Online Registration

3 YEAR WARRANTY

Scan the QR code using a smartphone device, for product warranty registration online.

The three (3) year extended warranty is applicable to items purchased from Jan 1st 2021, onwards. Items purchased prior to this date are not eligible for this extended warranty service but are subject to statutory warranty claims and all applicable consumer rights.

To qualify for the extended 3 year warranty, you must register your product within ninety (90) calendar days from the date of purchase.

Visit *https://www.quad-hifi.co.uk/warranty-registration* to complete your online registration. Items not registered online will have a Limited Warranty for one (1) year, or for the period of your country's statutory warranty, whichever is longer.

Warranty can only be offered to products registered with proof of purchase with date, model and details of the authorised dealer clearly stated on the receipt/invoice. Please keep the original receipt/invoice in case it is required for a warranty claim.

This Limited Warranty is non-transferable and is offered exclusively to the original owner.

This Limited Warranty is valid only in the original country of purchase.

Repairs or replacements provided under this warranty are the exclusive remedy of the consumer. QUAD shall not be liable for any incidental or consequential damages for breach of any expressed or implied warranty with any product. Except to the extent prohibited by law, this warranty is exclusive and in lieu of all other warranties whatsoever, both expressed or implied, including but not limited to the warranty of merchantability and fitness for a particular purpose.

This warranty provides benefits that are additional to and do not affect your statutory consumer rights.

This Limited Warranty is subject to correct information being submitted in your application. Incorrect dates or mismatched purchase receipt dates that are outside of the warranty terms will immediately invalidate any warranty claim.

*Please check with your dealer or local distributor for further information.

Exclusions

The following items are excluded from the QUAD warranty:

Normal wear and tear and cosmetic damage (including but not limited to any wear from reasonable use, environmental deterioration or neglect)

Products on which the serial number has been removed, altered or otherwise made illegible.

Products not purchased from an authorised QUAD dealer.

Products that were not new at the time of original purchase.

Products sold 'as is', 'as seen' or 'with faults'.

Products not purchased from an authorised dealer or distributor within the region of the claim (ie. parallel imports or grey market products)

Accidental damage or faults caused by commercial use, acts of God, incorrect installation, incorrect connection, incorrect packaging, misuse or careless operation or handling which is not in accordance with the user instructions.

Equipment that has been operated in conjunction with unsuitable, inappropriate or faulty apparatus.

Repairs, alterations or modifications carried out by parties other than QUAD or its authorised service partners.

Damage in transit that cannot be attributable to the fault of QUAD, the authorised distributor or dealer (ie. claims otherwise covered by transit insurance.)

Faults relating to abnormal or inappropriate power supply voltage or power surges.

Faults relating to extremities in temperature, exposure to heat, water or other liquids, insects, excessive moisture, sand, chemicals, battery leakage or any other contaminants.

Any force majeure events, including but not limited to any acts of God, fire, lightning, typhoon, storm, earthquake, hurricane, natural disaster, tsunami, flood, war, riot, public disturbance.

Any other causes beyond the reasonable control of either QUAD and its authorised distributor.

Please note items purchased before 1st Jan 2021 are not eligible for the extended warranty claim.

How to Claim

To obtain warranty service please contact the authorised dealer from which you purchased this product and present the limited warranty certificate offered upon registration of your product's extended warranty offer.

Do not dispatch goods without the prior agreement of the dealer, distributor or authorised service centre.

If asked to return products for inspection and/or repair, please pack carefully preferably in the original carton or packaging affording an equal degree of protection and return via insured, trackable courier service.

The authorised dealer or distributor will offer full return details and instructions. However, please note if unsuitable packaging is used the warranty may be deemed void due to inadequate return packaging.

QUAD or the authorised distributor, dealer or service centre may make a charge for the supply of new packaging for the return of the repaired item. Please note, insurance is recommended as goods are returned at the owner's risk. Authorised distributors or service centres cannot be held liable for loss or damage in transit. Insurance and freight charges on the return journey will be paid for by QUAD, authorised dealer, distributor or service centre if corrective work proves to be necessary.

In the event of 'no-fault found' or 'no repair necessary', the return shipping charge will be the responsibility of the owner.

Repairs

All repairs will be carried out by the appointed distributor (or locally appointed service centre). Repairs handled or processed without authorisation or approval of the appointed representative will be excluded from this limited warranty. Please note, QUAD is not able to supply parts or replacement items to any entity other than the official distributor or authorised service centre.

Other than the warranty and services set out in this warranty, to the fullest extent permitted by law, QUAD shall not be liable to you and/or any third party or entity whatsoever for:

- Any loss, damages and/or malfunction caused to any product(s) which is/are connected to any of the products covered by this warranty.
- Any damages, loss and liability, whether direct, indirect, incidental, consequential, special, punitive or otherwise, howsoever caused by, arising out of or otherwise, in relation to the installation, delivery, use, service, repair, replacement and/or maintenance of the product;
- Any damages, loss and liability under this warranty in respect of any act, omission, or negligence of any of their technicians, employees, agents, representatives or independent contractors relating to the actual or purported performance of any of the obligations under this warranty.

Service Centre Address

Should a fault occur with your product, please pack it correctly using the original packing, so you can ship it safely. For technical support, servicing or product queries and information, please contact either your local retailer or the office below:

IAG Service Dept.
13/14 Glebe Road
Huntingdon
Cambridgeshire
PE29 7DL
UK

Tel: +44(0)1480 452561
Email: support@iaguk.co.uk

For information on other authorised service centres worldwide contact QUAD International, UK.

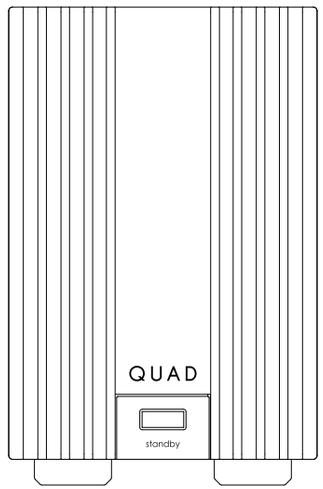
A list of worldwide distributors is available on the QUAD website: www.quad-hifi.co.uk

Specifications

Model	QUAD 303
General Description	Power Amplifier
Design Philosophy and Core Technology	Class AB Power Amplifier QUAD Triples Output Stage Custom Designed 200VA Toroidal Transformer Stereo/Bridge Mode Selection
Inputs	1 × stereo line input 1 × stereo XLR input 1 × 12V trigger IN
Outputs	1 x Stereo Speaker Output (Pair) 1 x 12V trigger (LINK)
Power Amplifier Section	
Gain	+29dB
FTC Power Output Rating (The rated power output is measured in compliance with the FTC standard test conditions)	Stereo: 2 x 49.5W (8 ohm, THD=1%) Stereo: 2 x 70W (4 ohm, THD<1%) Bridge: 140W (8 ohm, THD<1%) Bridge: 170W (4 ohm, THD<1%)
Frequency Response	20Hz - 20kHz (± 0.3dB)
Total Harmonic Distortion (THD)	<0.002% (1kHz)
Input Impedance	15k ohms (Line) 22k ohms (XLR)
Input Sensitivity	695mVrms (Line) 1.5Vrms (XLR)
Signal-to-Noise Ratio (S/N)	> 108dB (A-weighted)
Max. Output Current	10A
General	
Standby Power Consumption	<0.5W
Net Weight	8.4kg
Gross Weight	9.5kg
Dimensions (mm) (W x H x D)	120 x 176 x 325
Carton Size (mm) (W x H x D)	226 x 312 x 462
Finish	Classic QUAD Grey / Black
Power Requirements (depending on region)	220-240V ~50/60Hz 100-120V ~50/60Hz
Standard Accessories	Power Cable, User Manual

FTC Standard Test Conditions (§ 432.3 Standard test conditions.)

Any power level from 250 mW to the rated power shall be obtainable at all frequencies within the rated power band of 20 Hz to 20 kHz without exceeding 1.0% of total harmonic distortion plus noise (THD+N) at an impedance of 8 ohms after input signals at said frequencies have been continuously applied at full rated power for not less than five (5) minutes at the amplifier's auxiliary input, or if not provided, at the phono input. Provided, however, that for amplifiers utilised as a component in a self-powered subwoofer in a self-powered subwoofer-satellite speaker system that employs two or more amplifiers dedicated to different portions of the audio frequency spectrum, any power level from 250mW to the rated power shall be obtainable at all frequencies within the subwoofer amplifier's intended operating bandwidth without exceeding 1.0% of total harmonic distortion plus noise (THD+N) at an impedance of 8 ohms after input signals at said frequencies have been continuously applied at full rated power for not less than five (5) minutes at the amplifier's auxiliary input, or if not provided, at the phono input.




QUAD
1984
GEORGE ORWELL
ANNE FRANK


QUAD
QUAD
QUAD
QUAD
The Monocle Guide to Good Business
KINFOLK
QUAD


QUAD
QUAD
QUAD
QUAD
QUAD

QUAD

IAG House, 13/14 Glebe Road, Huntingdon, Cambridgeshire, PE29 7DL, UK
Tel: +44(0)1480 452561 Email: support@iaguk.co.uk http://www.QUAD-hifi.co.uk
IAG reserves the right to alter the design and specifications without notice. All rights reserved © IAG Group Ltd.
QUAD is a member of the International Audio Group.