

# HAUTONGA

*Integrated Amplifier  
Instruction Manual*



**PLINIUS**

*The heart of music*  
[www.pliniusaudio.com](http://www.pliniusaudio.com)



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All operational, technical and descriptive material in this publication is subject to change at any time without notice. For further product information or queries, please contact your Plinius dealer.

Plinius products are designed and manufactured by Plinius Audio Limited, New Zealand.

# Introduction

Congratulations on your decision to become the proud owner of this Plinius Hautonga Integrated Amplifier.

This manual has been prepared to help you understand the operation of your amplifier, and to provide information about its design and the variety of ways it may be used.

We have designed and manufactured this amplifier to reproduce your favourite music faithfully and accurately. With a little care and a full understanding of the operating recommendations in this manual, your Plinius Hautonga Integrated Amplifier will provide years of high-quality, trouble-free performance.

Please take the time to read this manual thoroughly before using your amplifier.

SERIAL NUMBER \_\_\_\_\_

FINAL TEST CERTIFIED BY \_\_\_\_\_

# Design Philosophy

From a distance you can see that the design of the Plinius products is more than an applied styling exercise to the front panel. We have started from the ground up to produce a casing for our electronics that is unrivalled in its physical strength and visual simplicity.

Wherever possible we have reduced the number of parts needed and then invested massively in refining and producing the remaining parts to the highest quality achievable with state of the art computer controlled machines allied with expert craftsman. Examples of this approach include the hydraulically formed corners on the amplifiers giving much greater strength and the one piece housing for the remote control that looks, feels and genuinely is robust.

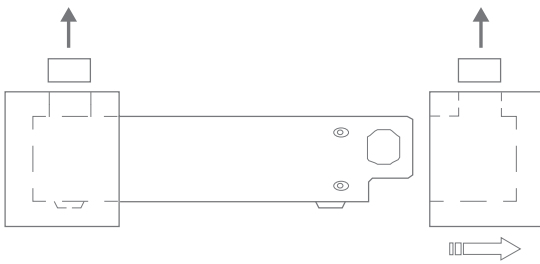
As with music that you are not familiar with, truly innovative new designs can take time to understand and enjoy. How often have you heard music that you were first unsure of, that over repeated listening, has become a firm favourite?

Our designs are fundamentally different to many other companies, and we hope that you will take the time to explore their unique character and qualities because we have not made them different simply to be different. We genuinely believe that their visual and tactile qualities do improve the experience of listening to music and that is our design goal!



Ross Stevens  
DESIGN DIRECTOR

# Unpacking



Open the box from the top and remove the accessories from the foam end caps. You may now proceed to lift the unit from the box. Once the unit is removed you can proceed with the removal of the foam end caps. These caps are designed to fit on the front and back of the unit for maximum protection. Retain the packaging for future transportation of this unit.

# Placement & Ventilation

This Plinius product may operate at a moderately high temperature, especially during extended listening sessions. With this in mind, we recommend the following guidelines for placement and ventilation:

- The ideal location is upon a rigid stand, away from direct contact with any temperature sensitive materials, furniture or deep pile carpets.
- Ventilation through and around the amplifier should be kept unimpeded.
- Ensure heat vents (slots in the base and lid) are not covered or restricted in any way.
- Equipment racks should be of an open type with no closed side panels and no closed front or rear panels. Ensure a minimum of 100mm clearance on all sides of your Plinius unit to other equipment and the shelf above.
- If the unit is in an enclosed cabinet, the clearance should be greater than 400mm on all sides. Ensure the space between the chassis and shelf below the unit is unobstructed at all times.
- When stacking separate audio components, ensure a minimum of 400mm clearance above the top unit is maintained for suitable airflow.
- NOTE: This unit has been designed for use in moderate climates only, not for tropical conditions.

The design of this Plinius product incorporates a very high level of mechanical decoupling of the input and output. It can however still be influenced by acoustical feedback in the operating environment. The use of acoustic cones or a suitably spiked amplifier stand or table may further enhance the performance of this amplifier. Consult your Plinius dealer for further advice if required.

# Care & Maintenance

With simple care and maintenance your Plinius product can be kept looking and operating like new for many years to come.

## **MAINTAINING THE CONNECTORS**

Exposed connectors such as the RCA connectors will be subject to environmental factors, and over time the surface may degrade. This can be greatly reduced by fitting readily available 'RCA caps' to reduce the effects of environmental elements on the RCA connectors. These RCA caps or RCA shorting caps can also provide sonic benefits. Connector cleaning products are also available to clean the RCA and cable connectors and frequent checks and cleaning will help maintain a good signal connection.

NOTE: DO NOT use RCA shorting caps on output connectors or power amplifier input connectors. Use RCA shorting caps on unused preamplifier stage input connectors only. Standard RCA shielding caps can be used on any unused input or output connectors.

## **MAINTAINING THE SWITCHES**

Switches should be maintained by using each various switch setting periodically. Even if a switch or a switch setting is not used, it is a good idea to toggle small switches and turn rotary switches through the full range of the switch several times in succession to keep the contacts active. Performing this simple action will promote longevity of the switch contacts.

## **SURFACE CLEANING**

From time to time you may wish to clean the surface of your Plinius equipment to remove dust, or any material build up from the atmosphere or on commonly used controls. Your Plinius product is made up of parts that have a hard anodised or a powder coat finish and will clean easily without being damaged.

Cleaning should be carried out using a soft cleaning cloth, dry or with either a small amount of water or a very mild surface cleaner, while observing the following guidelines:

- As a safety precaution, always switch the equipment off prior to cleaning
- Always use a cloth that is soft and clean
- Never use abrasives or polishing compounds anywhere on the unit
- Never apply liquid directly to the surface of the unit
- Use the cloth dry or with mild surface cleaners of either liquid or foaming type
- Apply only small amounts of cleaner to the cloth
- DO NOT rub the surface but wipe clean only. Excessive rubbing may dull powder coat or wear the screen printed text.

# Precautions



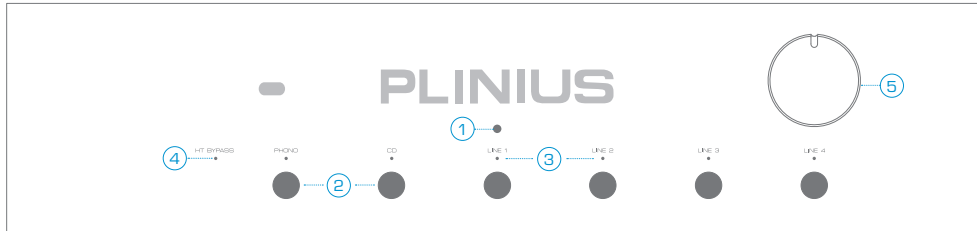
PLEASE TAKE SPECIAL NOTE OF THE FOLLOWING PRECAUTIONS BEFORE OPERATING YOUR NEW AMPLIFIER.

- The Plinius Hautonga Integrated Amplifier can deliver in excess of 200 watts into 8 ohms. This amplifier is also capable of a very large peak current delivery.
- The Plinius Hautonga Integrated Amplifier operates in Class AB. It is capable of generating heat that could have an adverse effect on other electronic equipment, furniture, etc.
- DO NOT leave flammable material on the amplifier whilst running, as this could pose a serious fire risk.
- This amplifier operates at hazardous voltage levels. There are some alterations that may be made by you, the owner. However, we recommend that any work requiring removal of the lid be referred to a suitably qualified and experienced service technician.
- DO NOT attempt to connect any input of this amplifier to its own outputs.
- DO NOT earth any output terminal or connect any of these terminals together without following the instructions in this manual or seeking qualified assistance.
- DO NOT place this amplifier in any position where liquids, or any foreign material may accidentally enter it.
- DO NOT connect any voltage source, short circuit, earth/ground or appliance (other than suitable high fidelity loudspeakers) to the amplifier output terminals.
- DO NOT expose the unit to dripping or splashing.
- DO NOT place objects filled with liquids on the unit, e.g. vases.
- DO NOT place sources of naked flame on the unit, e.g. candles.



# Front Panel Functions

The front of the Plinius Hautonga Integrated Amplifier incorporates all the facilities you will require on a daily basis.



## 1. DISPLAY LED

The blue LED on the front panel indicates the mode of operation. When first switched on the unit will go into standby and the display LED will vary in brightness. When the unit is taken out of standby and is ready for use, the LED will remain lit. Whenever mute or a remote volume button is pressed, the LED will dim.

## 2. SOURCE SELECTION BUTTONS

The buttons on the front panel allow selection of any of the different inputs available on the rear panel. This selection is fed to the Pre Out, Line Out and speaker outputs of the amplifier.

## 3. SOURCE DISPLAY LEDS

These small white LEDs communicate the current source selection.

## 4. HT BYPASS LED

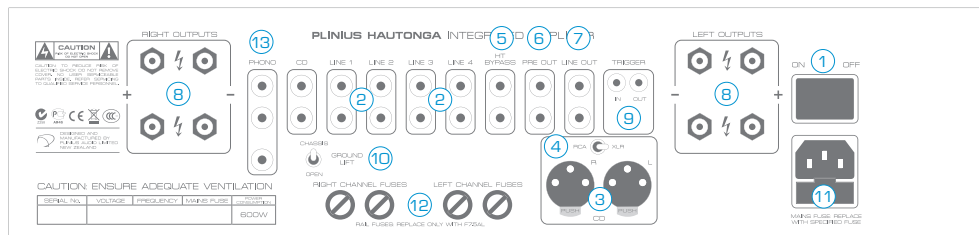
This small white LED is ON when the current source selection is the HT Bypass Input. This input can be selected using the remote control or activated by the trigger input.

## 5. VOLUME CONTROL KNOB

The volume control is a motorised unit that will accurately convey the selected source signal to the line stage of the Plinius Hautonga Integrated Amplifier. When using the remote control to alter the volume level, briefly press the button to make small adjustments, or hold the button down to continuously adjust the volume.

# Rear Panel Functions

This panel incorporates all terminals for connecting the input signals from your CD player, tuner, etc and the outputs to the loudspeakers and mains supply. Please remember that your Plinius Hautonga Integrated Amplifier is a high quality electronic instrument capable of an exceptional level of performance. Be sure that you understand your system's requirements fully before you make any connection to this amplifier.



## 1. MAINS SWITCH

The heavy-duty rocker switch in the centre of the panel turns the Mains/Line Power to the amplifier ON or OFF. The amplifier draws a moderately high current when switched on, so it is not good practice to rapidly turn the Mains switch on and off repeatedly.

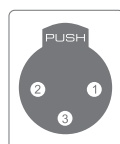
## 2. INPUT TERMINALS

The input terminals for your Plinius Hautonga Integrated Amplifier are easily accessible along the top of the rear panel, with the right channel (red) inputs along the top. The phono inputs are suitable only for low level input phono turntables, while the rest are all 'line level' inputs, for use with unbalanced signals from line level source components such as CD players, tuners, etc. Consult your Plinius dealer for further advice if required.

## 3. CD XLR INPUT TERMINALS

Below the Line Out and Trigger Connectors are an additional set of line level XLR balanced inputs for use with source components that feature XLR balanced outputs. Balanced signals are carried via a three way cable.

The XLR pin configuration used in all Plinius product is:



- PIN 1 to GND
- PIN 2 to +Signal
- PIN 3 to -Signal

NOTE: Because of the way our XLR and balanced inputs are configured it is not possible to use both XLR and RCA at the same time.

#### **4. INPUT SELECTION SWITCH**

This switch directly above the CD XLR input is used to select the pair of CD input sockets required as described above. Towards the RIGHT channel selects the CD RCA input connections, while towards the LEFT channel selects CD XLR input.

#### **5. HT BYPASS INPUT**

This input is for use specifically with home theatre processors. In some circumstances you may wish to use the power amplifier of the Hautonga Integrated as the front two channels of a surround or home theatre environment. The HT Bypass input can be used for this purpose, as any signal connected to these inputs can be sent directly to the power amplifier bypassing the preamplifier entirely. It is accessed by the remote or the trigger input.

#### **6. PRE OUT**

The Pre Out connection is provided to enable the Hautonga Integrated Amplifier to be connected to an external power amplifier.

#### **7. LINE OUT**

These RCA outputs are situated next to Pre Out and are provided to interface to line level recording devices for archiving, or transferring to portable media. The outputs are always live with the signal of whichever source is selected at the time of recording.

#### **8. OUTPUT TERMINALS**

Connections for the loudspeakers are provided on either side of the rear panel. Two parallel pairs of five way binding posts for each channel are fitted – these provide ease of use with bi-wiring and multiple cables requiring a large contact area.

#### **9. REMOTE TRIGGER INPUT/OUTPUT SOCKETS**

In order to integrate more effectively into a home theatre system, the Hautonga Integrated has a remote trigger input socket fitted to the rear panel. By connecting a processor with a remote trigger signal to this socket, the Hautonga Integrated can be switched between HT Bypass and standby modes. When in standby the amplifier draws less current and will operate at minimum temperature. This may be of advantage in multi-amplifier and/or remote installations. The Hautonga Integrated also features a remote trigger output socket fitted to the rear panel. By connecting this trigger output to other system components, the entire system can be put in and out of standby by the processor.

#### **10. GROUND LIFT SWITCH**

This switch allows the signal ground to be disconnected from the chassis. In some installations a hum loop may exist due to duplicate ground paths from different equipment. Use this switch to remove the connection from 0V to ground thus allowing some flexibility in your particular set-up.

### **11. MAINS POWER CORD IEC SOCKET**

This connector is where the mains supply cable from your wall connects to the amplifier. You will notice that a fuse holder is mounted within this connection, and it holds a mains fuse to provide surge and overload protection for your amplifier.

### **12. RAIL FUSES**

These tubular fuse holders house the positive and negative rail protection fuses. Depress and turn anti-clockwise to open. An LED is fitted next to each fuse holder and will illuminate to indicate a blown fuse.

### **13. PHONO EARTH POST**

This is a chassis connected gold-plated earth post for use with most vinyl turntables.

# Remote Control Functions

The Plinius Hautonga Integrated Amplifier features a full function remote to control all settings and configurations of the amplifier as well as complete controls for operating your Plinius CD player.

## INTEGRATED AMPLIFIER REMOTE FUNCTIONS:

### 1. STANDBY

Standby is used to put the unit into a low power mode. This disconnects the outputs of the Integrated Amplifier and turns off the white display LED's. It also switches the integrated amplifier to a low bias mode to reduce power consumption and still keep the circuitry active. This allows a minimum warm up period before the Plinius Hautonga Integrated Amplifier is at it's sonic best.

### 2. DISPLAY

The display button on the remote enables you to adjust the display brightness of the white LED's. Pressing the display button repeatedly will dim the LED in steps until they are off. The next press of the button will cycle the display back to full brightness.

### 3. SOURCE SELECTION

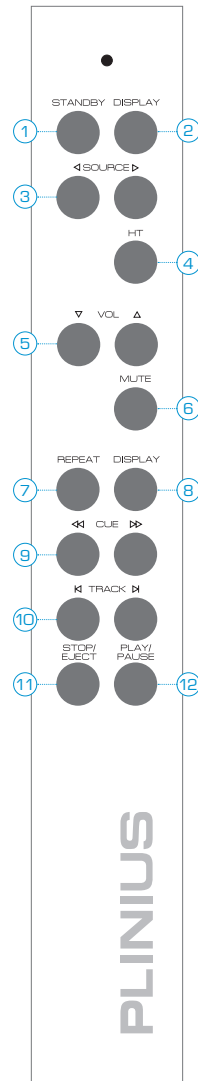
The source selection buttons enable changing from one input to another when needed and can be scrolled left or right to select the desired source. On reaching the left most or right most input, the selection will scroll in a continuous loop with the next button press.

### 4. HT BYPASS

The HT Bypass button activates the Plinius Hautonga Integrated Amplifier home theatre bypass mode. Once activated, the preamplifier is bypassed and the signal is transmitted from the HT Bypass input directly to the power amplifier. NOTE: In HT Bypass mode the only buttons that continue to function are Standby and Display. More information on HT Bypass can be found in the Installation & Operation section in this manual.

### 5. VOLUME CONTROL

Use these two buttons to control the volume level of the Integrated Amplifier. The right side button increases volume, while the left side button decreases the volume. Briefly press either button to make fine adjustments to the volume level. Hold down either button to continually adjust the volume level.



## **6. MUTE**

Pressing this button toggles the Hautonga Integrated Amplifier in and out of mute.

## **CD PLAYER REMOTE FUNCTIONS:**

### **7. REPEAT**

The repeat LED on the front panel will illuminate once this button is pressed. The CD Player will play all tracks on the CD as normal, but then repeat all tracks from track 1 in an endless loop. It does not repeat one track only, but will repeat the entire contents on the CD.

### **8. DISPLAY**

This function enables you to quickly adjust the display brightness. Use this button to toggle between high, low, and off settings. Note that whenever the compact disc drawer is ejected to change a CD, the display will automatically revert to full brightness.

### **9. CUE BUTTONS**

Use these two buttons to cue through the track you are listening to. Press and hold the right side button to cue forward through the track, or press and hold the left side button to cue backwards through the track. Once the start or end of the track is reached, Cue will continue into the next track.

### **10. TRACK BUTTONS**

The track buttons enable you to move forward (right button) or back (left button) through the tracks on the CD. Press the button once to skip to the next track on the CD, or hold down to skip through multiple tracks. When you press the back button once the CD Player will revert to the start of the current track. Pressing the back button again will skip back to the previous track. The track currently selected will be brightly lit.

### **11. STOP/EJECT**

If the CD player is playing a CD, pressing the Stop/Eject button will stop play and return to track 1. Pressing the button again will open the compact disc drawer so the CD can be changed.

### **12. PLAY/PAUSE**

Press the Play/Pause button to begin playing the CD at the track selected. The display LED corresponding to the track that is being played will vary in brightness. Press the Play button again, and the track will pause, designated by the LED flashing. If the compact disc drawer is open, pressing play will shut the drawer and start playing the CD from track 1.

# Installation & Operation



**WARNING: RISK OF ELECTRIC SHOCK. TERMINALS MARKED WITH ⚡ SHOULD BE CONSIDERED HAZARDOUS LIVE AT ALL TIMES.**

This amplifier operates at hazardous voltage levels. We recommend that any work requiring removal of the lid be referred to a suitably qualified and experienced service technician. DO NOT place this amplifier in any position where liquids or any foreign material may accidentally enter it.



**PLEASE READ & UNDERSTAND THE PRECAUTIONS WITHIN THIS MANUAL FOR PLACEMENT & OPERATION OF THIS PRODUCT.**

## CONNECTIONS

Connections to your Hautonga Integrated Amplifier should be made in the same order as they are listed in this section. DO NOT attempt to connect your Hautonga Integrated Amplifier until you have read and fully understood these instructions. Should you require further assistance, please contact your Plinius dealer.



**DO NOT POWER UP YOUR AMPLIFIER UNTIL YOU HAVE CONNECTED YOUR INPUT/OUTPUTS CORRECTLY FOR YOUR SYSTEM.**

## SOURCE COMPONENT INPUTS

Connect your Source to the input of the Hautonga Integrated Amplifier using suitable single-ended RCA or Balanced XLR interconnect cables only. For RCA, make sure you connect the red coded cable to the red RIGHT RCA input, and the white cable to the white LEFT RCA input. Also make sure the RCA connectors are a snug fit and are inserted all the way in.

For CD XLR input connection, make sure you connect the RIGHT XLR input and LEFT XLR inputs to the right and left outputs from your source respectively. Also make sure the XLR connectors click into place. Use the input selection switch to select RCA if you are using RCA inputs or to select XLR if you are using XLR inputs.

NOTE: DO NOT connect XLR and RCA at the same time, use only one or the other. The phono input should be connected to a suitable source turntable only.



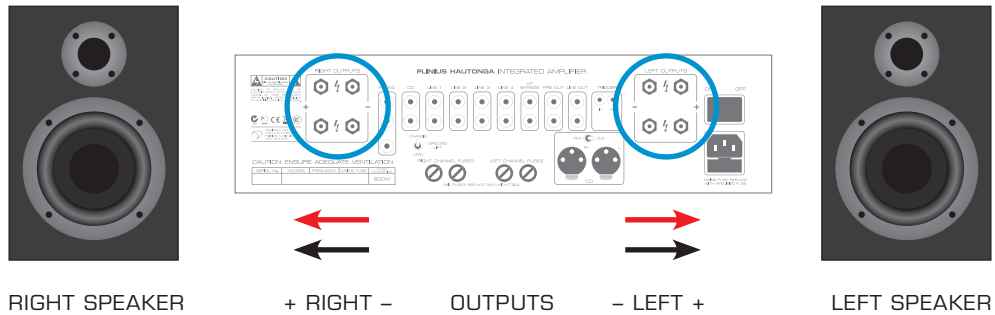
CD PLAYER



HAUTONGA CD INPUTS

## LOUDSPEAKER OUTPUTS

The connection of your loudspeakers to the output posts of the Hautonga Integrated Amplifier must be made by an 'instructed person' with suitable ready made loudspeaker cables only. Connect your left loudspeaker (ie. the one on your left when seated in your normal listening position) to the left output terminals. Ensure the terminals on the amplifier are connected to the loudspeaker terminals Red positive (+) to Red positive (+) and Black negative (-) to Black negative (-). Repeat this process for the right outputs.



## TERMINATION QUALITY

Quality of the connections must be examined to ensure that high-performance, trouble-free operation is enjoyed. Check that the connections are tight but do not over tighten. If bare wires are used make sure that no loose strands of wire short across the other terminals or the amplifier chassis. When using plugs such as bananas, be sure to use good quality plugs with a firm fit.

## BI-WIRING

Bi-wiring uses two pairs of loudspeaker cables for each channel loudspeaker. You will notice that the rear panel of your Hautonga Integrated Amplifier has two pairs of output terminals for this purpose. When bi-wiring, always connect the terminals positive (+) to positive (+) and negative (-) to negative (-). Be sure to remove any jumpers that may be fitted to your loudspeakers.

## PHASING (OR POLARITY)

It is important to achieve good stereo imaging in your listening room. By observing the wiring instructions above, each power amplifier/loudspeaker combination should be in phase. If you experience poor stereo image and/or a lack of bass, check that the loudspeaker wiring has been connected correctly. If in doubt, consult your Plinius dealer for advice.

Naturally it is also important to make sure all the leads carrying signals for the RIGHT channel loudspeaker are connected to the RIGHT input to the amplifier from your preamplifier or CD player etc. Signals for the LEFT channel should be wired in a similar fashion.



## **USING HT BYPASS INPUT**

The Hautonga Integrated Amplifier features a home theatre input to bypass the preamplifier stage when used in home theatre or multimedia installations. When HT Bypass is selected, the signal will pass from the HT Bypass input directly to the Hautonga Integrated power amplifiers.

This enables the unit to remain in circuit for use with two channel sources (such as CD players and tuners), as well as a link to the speakers should you wish to use your normal stereo set-up in a surround or home theatre environment.

To access the HT Bypass input, press the HT button on the remote control. To exit the HT Bypass mode and return to using a source component, press HT again, or use the source buttons to scroll to any desired source component.

NOTE: Only connect a suitable pre out signal to the HT Bypass input. When HT Bypass is selected, remote volume cannot be accessed.

## **USING PRE OUT**

A line level output is provided on the back of the Hautonga Integrated Amplifier. If you wish to use the Hautonga Integrated Amplifier as a pre-amp only, or to send signal to another amplifier, fit the interconnect cable to the Pre Out outputs. The signal from this output is preamplifier out level, and as such is not amplified by the power stage of the Hautonga Integrated Amplifier. The output level remains adjustable by using the volume control. Note that the Pre Out connections provide signal from whatever the source selector knob is currently set to.

## **CONNECTING THE MAINS SUPPLY**

Firstly, check that the mains supply voltage printed on the rear of this amplifier is similar to the mains supply voltage in your area. If in doubt, please consult your Plinius dealer. Mains supply power connection is via the plug-in lead supplied with your Hautonga Integrated Amplifier. Where possible, check the wall outlet is switched OFF, then connect the local mains plug end of the lead to the wall outlet. Check the Integrated Amplifier is switched OFF, and connect the IEC end of the cable to the IEC socket at the back of the integrated amplifier. With the cord fully connected, switch the wall outlet ON.

Now that your Hautonga Integrated Amplifier is configured correctly, switch the power switch on the rear panel to ON. The display LED will cycle in brightness for approximately ten seconds as the internal circuitry stabilises. You can now enjoy your new Plinius Hautonga Integrated Amplifier.

NOTE: This unit must be connected to a mains socket outlet with a protective earthing connection. The wall outlet socket or mains switch must be accessible at all times in case of emergency.

**WARM-UP PERIOD**

You will find that the Hautonga Integrated Amplifier will become noticeably 'purer' in sound after being on for a period of time. We usually recommend waiting at least 24 hours before expecting the best quality of sound reproduction from your amplifier.

# Product Features

## REMOTE CONTROL

Provided with your Hautonga Integrated Amplifier is a 16 function remote control. Two AAA batteries power the remote, and these are replaced by removing the two screws on the base of the remote that hold the battery compartment in place. The bottom end of the remote is now free to slide out for access to the batteries. Replace the two batteries, taking care to refit the new ones with correct polarity.

## PHONO GAIN ADJUSTMENT

The phono stage can also be set to high or low gain to suit your phono turntable specifications (high gain is the factory setting). Disconnect the lead from the IEC socket on your Hautonga Integrated Amplifier and make sure the Mains switch is OFF. Carefully remove the lid by undoing the cap screws on the top and side. Locate the small black phono jumpers to the middle-right side of the top circuit board. The gain can now be adjusted noting that high gain (factory setting) is set with jumpers to the left, and low gain is set with jumpers to the right. Now re-assemble your Hautonga Integrated Amplifier.

## FUSE PROTECTION

When any rail fuse is damaged one or more fuse warning LED's will light. These LED's are located next to the fuse that has blown. To replace the fuse, disconnect the amplifier from the mains power and wait 30 minutes, then firmly push in the round fuse cap with your fingers. When the cap cannot push in any further, rotate the cap anti-clockwise (to the left) until it comes to a stop. Release inward pressure on the fuse cap and it can now be removed from the amplifier. Replace them with the same type only.

To re-fit the fuse, insert the fuse and gently turn it as far as possible anti-clockwise (to the left). Now push the fuse cap in firmly, then turn clockwise (to the right) until it comes to a stop. Release inward pressure on the cap and the fuse will be fitted securely.



**IMPORTANT: DO NOT FIT A FUSE WITH A HIGHER RATING.**

NOTE: that fuse failure may indicate a severe problem. Check all speakers and speaker cables for damage etc. Should the amplifier continue to exhibit rail fuse failure, contact your Plinius dealer.

## MAINS/LINE FUSE

A Mains/Line fuse is fitted within the IEC socket on the rear of the amplifier. A small drawer at the bottom of this socket may be removed (after the IEC plug is removed) by levering it out with a flat blade screwdriver. The fuse fitted should be rated as specified on the rear panel.



**IMPORTANT: DO NOT FIT A FUSE WITH A HIGHER RATING.**

In the unusual event that this fuse should blow, you must first establish the cause of this failure (such as power surges, damaged mains cable, etc) before replacing the fuse with one of the same rating and type. Should the amplifier continue to suffer mains fuse failure, contact your Plinius dealer.

### **OVER TEMPERATURE PROTECTION**

The Hautonga Integrated Amplifier is fitted with an auto-reset thermal sensor. The sensor is located at the main power transformer and should the transformer internal temperature exceed 110°C (230°F) the power will be disconnected from the unit.

The unit will remain off until the temperature has reduced significantly, and then the sensor will automatically reset to the ON state.

If Over Temperature Protection occurs you should switch the unit off immediately. Check the placement of the unit and ensure there is adequate airflow above and around the unit. Refer to the Placement & Ventilation section on page 4 for further information.

# Loudspeaker Selection

Your Plinius Hautonga Integrated Amplifier is designed for use with high fidelity loudspeakers. It should not be used to operate with any other type of appliance or equipment.

Be certain that your loudspeakers can handle most of the rated output power of this amplifier. You may find loudspeaker specifications confusing or misleading, so you should discuss this with your audio dealer prior to purchase. As a general rule, the use of high power (200 Watt RMS or greater) loudspeakers is recommended and desirable. However, our experience indicates that medium to low power loudspeakers (100 to 200 Watt RMS) are quite often suitable for use on this amplifier, provided the volume is maintained at a level where no distortion is audible.

Impedance of the loudspeaker load is important to ensure the rated performance of this amplifier. If you have doubts about the impedance of your loudspeaker configuration, we recommend you speak to your Plinius dealer.

# Troubleshooting

## **NO SOUND FROM THE UNIT**

If the unit is not reproducing audio take the following steps:

- Check the source is correctly connected to an appropriate input on the unit. Refer to the Installation & Operation section on page 13.
- Check the source is playing, and not paused or muted. If it has adjustable volume, check this is at the usual output level.
- Check the unit is set to select the correct source input. Adjust the source selector for the correct source component.
- Check the volume. Turn the unit volume up to a point just below the normal listening level. DO NOT turn the volume up to maximum in case the sound begins to come through the speakers.
- Check the unit is not in Mute. If the Display LED is dim, this indicates the unit is in Mute mode. The Display LED should be full brightness for operational mode.

## **SOUND IS QUIET OR DISTORTED**

If the sound is quiet or distorted a rail fuse may have failed. While the unit is ON check the fuses in the rear panel. A Red LED being on will indicate a fuse failure. If the fuse has failed, see Fuse Protection in the Product Features section of this manual.

NOTE: If the unit immediately or repeatedly suffers rail fuse failure, there may be a major problem and you should contact your Plinius dealer.

## **POWER FAILURE**

The unit may have suffered mains fuse failure or be in thermal overload protection mode.

- Mains Fuse Failure: Check the mains fuse and replace if needed.
- Thermal Overload Protection: Assess the temperature of the unit. If the unit seems excessively hot, the Over Temperature Protection may have activated.

Refer to the Product Features section on page 17 for further information.

NOTE: If the unit immediately or repeatedly suffers mains fuse failure or thermal overload protection, there may be a major problem and you should contact your Plinius dealer.

# Specifications

## **POWER**

200 watts RMS per channel into 8 ohms.  
Both channels driven from 20Hz to 20kHz at  
less than 0.2% total harmonic distortion

## **FREQUENCY RESPONSE**

20Hz to 20kHz +/-0.2dB  
-3dB at 5Hz and -3dB at 70kHz

## **DISTORTION**

Typically <0.05% THD at rated power  
0.2% THD and IM worst case prior to clipping

## **CURRENT OUTPUT**

40A short duration peak per channel  
Fuse protected

## **SLEWING**

50V/ $\mu$ s

## **HUM & NOISE**

90dB below rated output 20Hz to 20kHz  
unweighted

## **GAIN**

Line inputs to speaker out: 40dB  
Phono Input to Pre Out: 66dB on high gain,  
60dB on low gain

## **INPUT IMPEDANCE**

47k ohms all inputs

## **RATED PRE OUT LEVEL**

1.5V RMS into 47k ohms or higher

## **PRE OUT SOURCE IMPEDANCE**

Typically 1.5k ohms

## **PRE OUT MINIMUM RECOMMENDED LOAD**

47k ohms

## **LINE OUT LEVEL**

190mV at 200 ohms

## **POWER/CURRENT CONSUMPTION**

600VA  
0.4A (92W) Class AB Idle

## **DIMENSIONS**

Height: 120mm (4.75")  
Width: 450mm (17.75")  
Depth: 400mm (15.75")  
Weight: 14kg (30lbs)

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