
▶ **Primare A20 Integrated Amplifier User Guide**

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Warning: To prevent fire or shock hazard, do not expose this unit to rain or moisture.

Dangerous voltages inside. Do not open the cabinet. There are no user serviceable parts inside. Repairs should be carried out by qualified service personnel only.

FCC Warning: This equipment generates and can radiate radio frequency energy and if not installed and used correctly in accordance with our instructions may cause interference to radio communications or radio and television reception. It has been type-tested and complies with the limits set out in Subpart J, Part 15 of FCC rules for a Class B computing device. These limits are intended to provide reasonable protection against such interference in home installations.

EEC: This product has been designed and type-tested to comply with the limits set out in EN55013 and EN55020.

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<http://www.interface.co.uk>

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► Introduction

Welcome to the Primare A20 Integrated Amplifier! This chapter introduces you to its key features, and explains how you can take advantage of its superb sound as the key component in your hi-fi system.

WELCOME TO THE A20 INTEGRATED AMPLIFIER

The A20 is an integrated preamplifier and power amplifier with extraordinary performance for its price.

High-performance power amplifier

The A20 incorporates a power amplifier providing 70 Watts per channel of superb quality sound.

Flexible inputs

The A20 preamplifier stage provides four inputs, labelled CD, TUNER, LINE 1, and LINE 2, to cater for a flexible range of sources.

Fixed and variable outputs

The currently selected source is provided on two pairs of line-level outputs, for connecting the A20 to other equipment. The TAPE OUT sockets are independent of the position of the volume control, and allow you to connect the A20 to a tape recorder. The PRE OUT sockets are controlled by the volume control, and can be used to connect the A20 to another output stage, or a digital surround processor such as the Primare P30.

Superb technical design

The A20 incorporates a classic circuit design based on JFET input devices and bipolar output devices, typical of far more expensive equipment, giving high performance and excellent reliability.

Intuitive user interface

In keeping with the philosophy of the Primare range of systems, the A20 can be controlled through a very simple and intuitive set of front panel controls.

Alternatively all the functions of the A20 can be controlled by the C30 Remote Control, along with the other Primare components in your system.

USING THE A20 WITH OTHER PRIMARE PRODUCTS

Although the A20 is flexible enough to work with virtually any other equipment you have in your system, it is ideal for use with the other products in the Primare range, such as the Primare V20 DVD Player, Primare T20 FM Stereo Tuner, or Primare D20 Integrated CD Player. A particular benefit of using the A20 with other Primare sources is that you can control your entire system with a single remote control, to give you a fully integrated system with the simplest possible user interface.

TECHNICAL SPECIFICATION

Output power per channel	2 x 70W into 8Ω, 2 x 110W into 4Ω
Speaker terminals	4 –16Ω
Output impedance	<0.08Ω
DC offset	<5mV
Line inputs	330mV
Tape outputs	300mV
Frequency response	<10Hz – 100kHz, -3dB
THD	0.08% (1kHz, 10V into 8Ω)
Signal-to-noise, line	-98dB (A-weighted)
Power consumption, standby	<16W
Peak current	±20A
Dimensions (WxDxH)	430 x 275 x 95mm
Weight	11kg

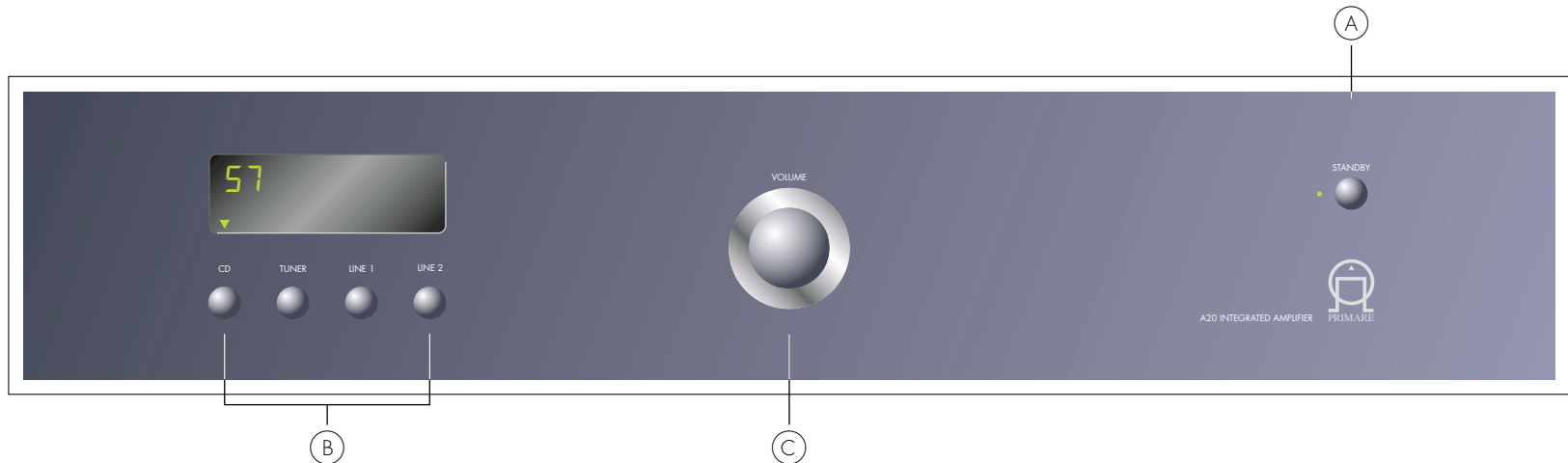
► Using the A20 Integrated Amplifier

This chapter explains how to operate the A20 Integrated Amplifier, using either the front panel controls or the C30 Remote Control.

FRONT PANEL CONTROLS

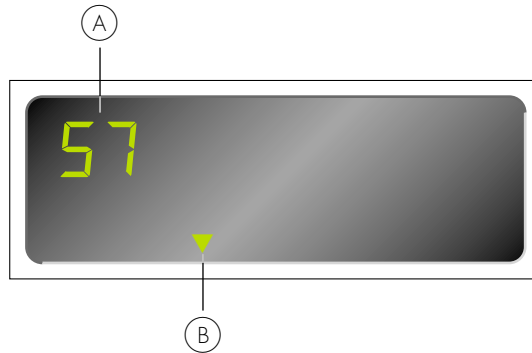
All the functions of the A20 Integrated Amplifier can be accessed using the five front panel push buttons and volume control, and information about its operation is displayed on the front panel display:

- (A) The **STANDBY** button switches the A20 to standby, or switches it on from standby.
- (B) The input selector buttons select one of the four source inputs.
- (C) The **VOLUME** control changes the volume.



FRONT PANEL DISPLAY

The following illustration shows the information on the front panel display:



(A) Volume setting.

(B) Currently selected input.

To dim the front panel display

- Press the **DIM** button on the remote control.

The display will dim to show just the currently selected source.

To restore the normal display

- Press the **DIM** button again.

SWITCHING ON AND OFF

To switch on

- Use the switch under the left-hand edge of the front panel.

During normal operation you can leave the A20 switched on and in standby.

To switch to standby

- Press the **STANDBY** button on the front panel or the **STBY** button on the remote control.

To switch on from standby

- Press the **STANDBY** button on the front panel.

Selecting any function with the remote control will also switch on the A20 from standby.

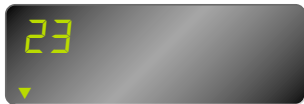
SELECTING A SOURCE

The A20 Integrated Amplifier provides a choice of four line inputs, labelled: CD, TUNER, LINE 1, and LINE 2.

To select a source

- Press the button corresponding to the source you want to select until the name of the source is displayed on the front panel display.

For example:



- Alternatively, press the **SEL ▲** or **SEL ▼** buttons on the C30 Remote Control to step between sources.

CHANGING THE VOLUME

The A20 allows you to vary the volume from 0 (silence) to 79 (maximum volume).

To change the volume

- Rotate the volume control on the front panel, or press the **VOL ▲** or **VOL ▼** buttons on the C30 Remote Control.

The current volume setting is shown on the front panel.

For example:



CHANGING THE BALANCE

You can change the balance of the sound between the left and right channels to shift the position of the stereo image.

To change the balance

- Press the **MENU** button on the C30 Remote Control.

The front panel display shows the current balance setting, where -6 corresponds to the leftmost position, 0 corresponds to centre, and 6 corresponds to the rightmost position.

For example:



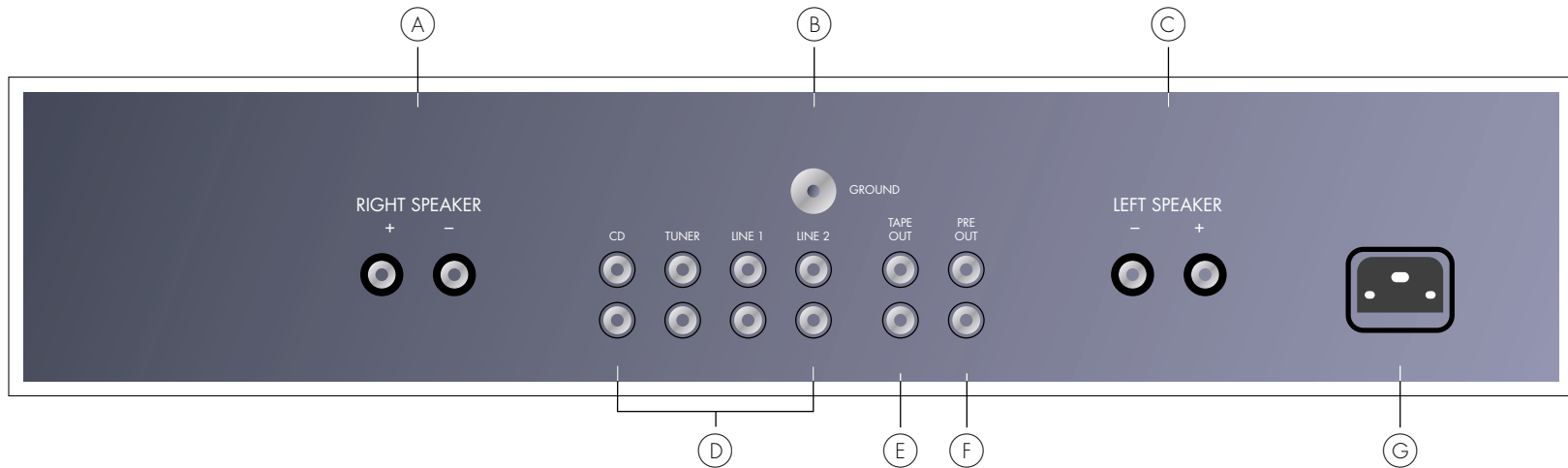
- Press the **VOL ▲** and **VOL ▼** buttons on the remote control to adjust the balance.
- Press the **MENU** button again to revert to the normal volume display.

Alternatively the normal display will revert automatically after four seconds.

▶ Connecting the A20 Integrated Amplifier

This chapter explains how to connect the A20 to the other components in your system, using the connections on the back panel.

BACK PANEL CONNECTIONS



(A) Right loudspeaker outputs.

(B) Ground terminal.

(C) Left loudspeaker outputs

(D) Audio inputs.

(E) Tape outputs.

(F) Preamplifier outputs.

(G) Mains power input and fuse.

POWER CONNECTION

Warning: Before connecting power check that the required supply voltage, indicated on the back panel, corresponds to your local AC supply. If a different voltage is stated on the type plate do not connect the amplifier to the mains power, and seek advice from your dealer.

Connect the mains power using the enclosed mains cable.

Note: Always disconnect the amplifier from the mains power before connecting or disconnecting any of the cables.

OUTPUTS

Loudspeaker outputs

Connect the left and right loudspeakers to the corresponding terminals. The terminals can accept speaker cables terminated with 4mm banana plugs, spade terminals, or bare wires. To connect bare wires unscrew the terminal, pass the bare wire through the hole in the terminal bolt, and clamp the wire in place by screwing the terminal back down.

Preamplifier outputs

The PRE OUT sockets provide a line-level output from the A20 preamplifier stage which can be connected to another preamplifier, such as the Primare P30 Processor. The level of this output is controlled by the volume control on the A20.

The TAPE OUT sockets provide a fixed level copy of the currently selected source, suitable for connecting to a tape recorder.

INPUTS

Source inputs

Connect each source to the appropriate source input, connecting the right channel to the red socket and the left channel to the white socket.

To connect an analogue turntable with a moving magnet or moving coil cartridge you will need an additional phono preamplifier such as the Primare R20. The output of the turntable is connected to the R20, and the output of the R20 should be connected to a spare input on the A20, such as LINE1.

A ground terminal is provided above the inputs sockets to allow you to provide a direct ground connection for sources in order to remove hum loops.

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