

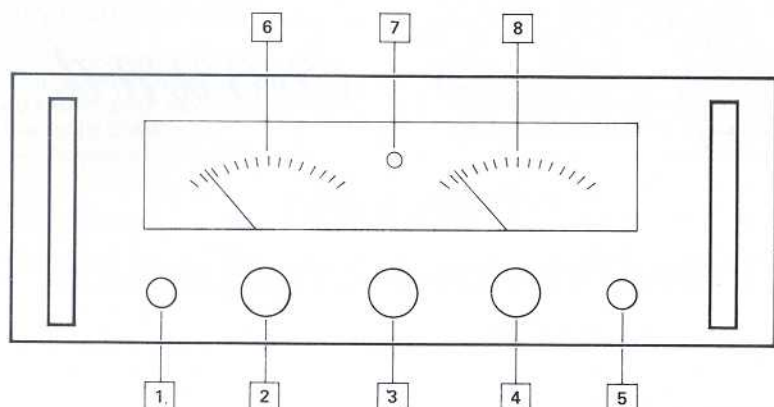
B.A.S. Sound

Domestic
Valve Powered Amplification



Power Amplifier Model P.50
Pre-amplifier Model P.500

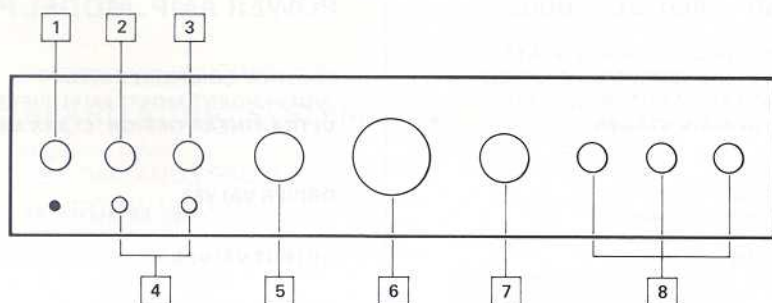
FRONT PANEL POWER AMPLIFIER P.50



- 1 ON-OFF SWITCH:** It is not advisable to switch on and off at rapid intervals, as this will shorten the working life of the valves.
- 2 METER SENSITIVITY CONTROL:** When set at minimum position, the readings will show the average power into an 8 ohm load. Turning the control knob in a clockwise direction will increase the meter sensitivity.
- 4**
- 3 INPUT VOLTAGE CONTROL:** Position to be set at 1V when using BAS SOUND pre-amp model P.500. or set to an appropriate position when using high output tape machines or pre-amps.
- 5 INPUT SELECTOR:** This control enables switching between inputs 1 and 2. The zero position disconnects the signal to the speakers. It is advisable to use the zero position when changing speaker or input connections, as this will protect your speakers.
- 6 LEFT AND RIGHT CHANNEL METERS:** These meters will indicate the approximate average (not peak) power delivered to 8 ohm speakers.
- 8**
- 7 THERMAL PROTECTION:** The unit is protected from over-heating by the use of HEAT SENSORS. If the temperature rises above a safe operating level, the unit will be automatically switched off and the indicator lamp will come on. When the temperature falls to a safe level, the unit will automatically switch on again and the indicator lamp will go out.

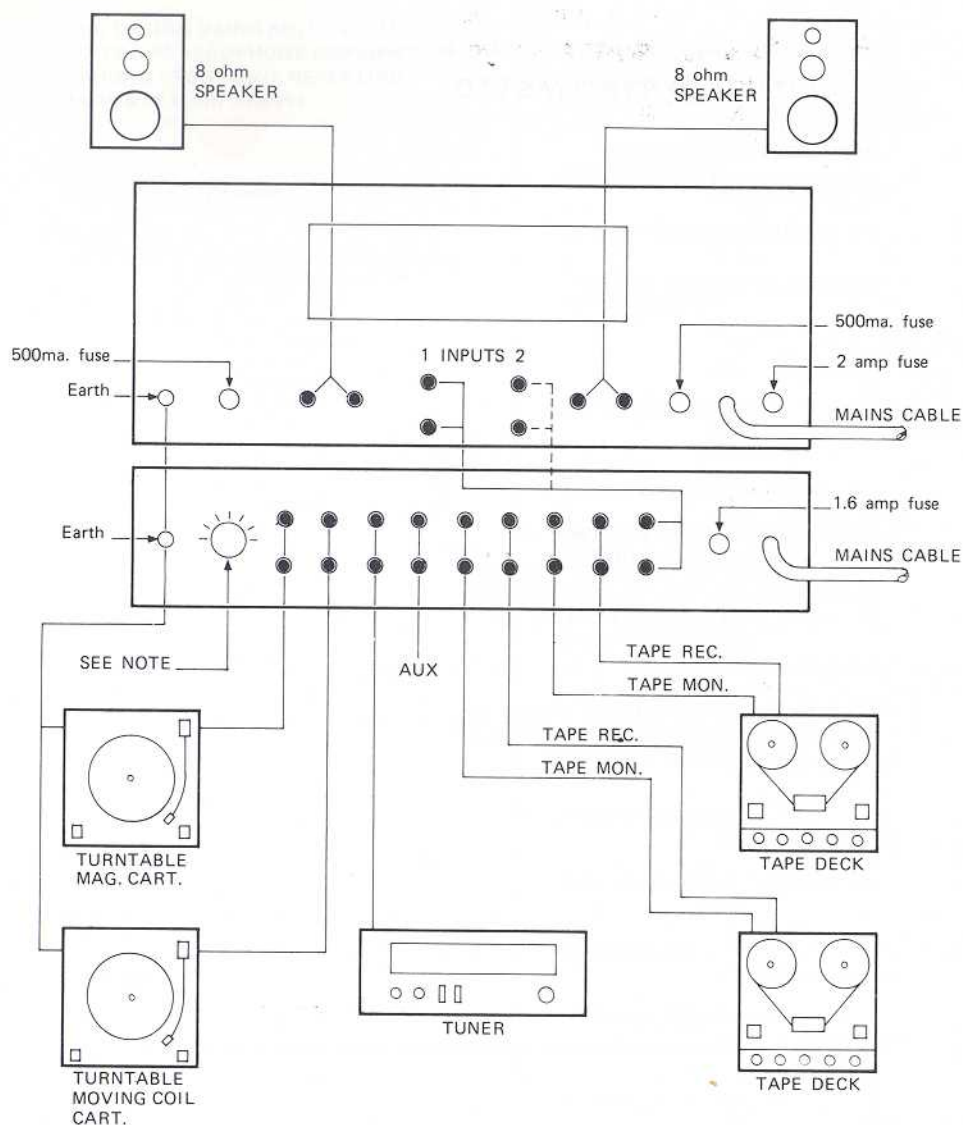
VALUE POWER U

FRONT PANEL PRE-AMPLIFIER P.500



- 1 ON-OFF SWITCH:** It is not advisable to switch on and off at rapid intervals, as this will shorten the working life of the valves.
- 2 TAPE MONITOR (1 and 2):** Tape 1 position – for tape machines with low output. Tape 2 position – for high output tape machines. When not using tape facilities, ensure that monitor switch is set to OFF position.
- 3 FILTERS:**
15Hz Use this filter to eliminate sub-sonic interference such as resonant frequencies of speakers or record warps.
10kHz Use this filter to eliminate high frequency interference such as that from fluorescent lights, tape, tuner hiss and record surface noise.
- 4 HEADPHONE SOCKETS:** Both headphone sockets can be used simultaneously.
- 5 SELECTOR:** PHONO 1. For connection of turntable fitted with magnetic cartridge.
PHONO 2. For connection of turntable fitted with moving-coil cartridge. (Not fitted as standard. Optional extra).
TUNER
AUX.
- 6 VOLUME:** When changing mode or interconnection ensure that the volume control is set to min. position.
- 7 BALANCE:**
- 8 TONE CONTROLS:** Few listening rooms are acoustically perfect. For this reason we provide three tone controls, allowing a wide range of tonal adjustment. The bass and mid controls employ passive circuits, resulting in lower distortion, compared to conventional active circuits.
Mid tone boost has a dramatic effect on voices, with a forward, attacking quality. Alternatively, Mid tone cut gives a more 'laid back' sound for a quieter less thrusting impression.

REAR PANEL CONNECTION FACILITIES



NOTE: INPUT CAPACITY CAN BE ADJUSTED TO CONFORM WITH CARTRIDGE REQUIREMENTS. CAPACITY OF CONNECTING CABLES TO BE ADDED TO GET REQUIRED TOTAL CARTRIDGE LOAD.

TECHNICAL SPECIFICATIONS

PRE-AMP. MODEL P.500.

HYBRID DESIGN USING SOLID-STATE CIRCUITS FOR HEADPHONE AMPLIFIER AND PHONO FRONT-END, REVERTING TO VALVES IN MAIN STAGES.

MAIN STAGES

ECC 83 and Z729 valves.

SENSITIVITIES

PHONO 1. Magnetic 1mV 47k ohm, variable cartridge capacitance pF 50, 100, 150, 220, 330, 470.

PHONO 2. Moving coil pick-up (Future optional extra).

TUNER 100mV 47k ohm.

AUX. 100mV 47k ohm.

TAPE 1. 200mV 100k ohm.

TAPE 2. 650mV 47k ohm.

OUTPUTS

MAIN 500mV 4k ohm.

TAPE 200mV 10k ohm.

PHONO OVERLOAD LEVEL

+48dB @ 1kHz.

FREQUENCY RESPONSE

20Hz - 20kHz ± 1 dB.

SIGNAL TO NOISE RATIO

PHONO 1. Better than 60dB, unweighted.

TUNER & AUX. Better than 70dB, unweighted.

(Measured with volume at maximum and inputs short-circuited).

TOTAL HARMONIC DISTORTION @ 1kHz.

Less than 1% at full output.

TONE CONTROLS

BASS ± 8 dB @ 100Hz.

MID ± 4 dB @ 1kHz.

TREBLE ± 8 dB @ 4kHz.

FILTERS

SUBSONIC - 10dB @ 15Hz.

TREBLE - 10dB @ 10kHz.

CROSSTALK

Better than -70dB.

HEADPHONES

200mW into 8 ohm @ rated sensitivity. Max. output 800mW into 8 ohm 2 x 500mW into 2 x 8 ohm.

POWER REQUIREMENTS

120v or 240v (set by manufacturer), 50 - 60Hz.

POWER CONSUMPTION

30 Watts max.

DIMENSIONS (Overall)

WIDTH 21 ins. 533 mm.

HEIGHT $3\frac{1}{2}$ ins. 89 mm.

DEPTH $15\frac{1}{4}$ ins. 387 mm.

WEIGHT WITHOUT PACKAGE

29 lb. 13 kg.

POWER AMP. MODEL P.50.

THE UNIT COMPRISES TWO INDEPENDENT MONO AMPLIFIERS, ULTRA-LINEAR DESIGN, CLASS AB1.

DRIVER VALVES

ECC 82 and ECC 83

OUTPUT VALVES

KT 88

RATED OUTPUT

50 Watts r.m.s. per channel, continuous sine wave into 8 ohm, both channels driven.

INPUT SENSITIVITY

Variable 0.5v - 5v r.m.s. into 100k ohm.

FULL POWER BANDWIDTH

20Hz - 20kHz ± 1 dB.

SIGNAL TO NOISE RATIO

Better than 80dB.

TOTAL HARMONIC DISTORTION @ 1kHz.

50 Watts into 8 ohm.
Less than 1%.

25 Watts into 8 ohm.

Less than 0.15%.

5 Watts into 3 ohm.

Less than 0.10%.

DAMPING FACTOR

16 @ 1kHz, 8 ohm load.

OVERALL NEGATIVE FEEDBACK

17dB.

TWO INPUTS

Switched on front panel.

THERMAL PROTECTION

Automatic cut-out to both channels.

CIRCUIT PROTECTION

500 mA. fuses to each channel.

POWER METER

Average power reading with variable sensitivity.

POWER REQUIREMENTS

120v or 240v (set by manufacturer), 50 - 60Hz.

POWER CONSUMPTION

300 Watts (max.)

DIMENSIONS (OVERALL)

WIDTH 21 ins. 533 mm.

HEIGHT $6\frac{3}{4}$ ins. 172 mm.

DEPTH $15\frac{1}{4}$ ins. 387 mm.

WEIGHT WITHOUT PACKAGE

75 lb. 34 kg.

DESIGNED AND MANUFACTURED IN ENGLAND BY

BEARD AUDIO SYSTEMS LTD.

Registered Offices:
98a, OAKLANDS GROVE,
LONDON W12 0JB

TEL: 01-749 4258

Registered in England No. 1366781

TRADE DESCRIPTIONS ACT 1968

THE MANUFACTURER RESERVES THE RIGHT
TO ALTER ANY SPECIFICATIONS AND DESIGN
AS THEY REQUIRE WITHOUT NOTICE.

ALL BEARD AUDIO SYSTEMS LTD., PRODUCTS
ARE DESIGNED TO COMPLY WITH BRITISH AND
INTERNATIONAL SAFETY STANDARDS.

