OWNER'S MANUAL

Quality. Uncompromised.

ROTEL®

STEREO CONTROL AMPLIFIER RC-1000

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

Write your SERIAL NUMBER here.
The number is located near the name plate on the unit's rear panel.

SERIAL NUMBER

THE ROTEL CO., LTD.
1-36-8 Ohokayama, Meguro-ku, Tokyo, Japan

INTRODUCTION

We at Rotel would like to take this opportunity to thank you for purchasing our 1000 series audio components.

The quality sound and high performance of this component are the result of Rotel's advanced electronics technology coupled with our own love of fine music. We are confident that this superb component will meet with your full satisfaction.

We ask you to fully read this instruction manual before using your unit, in order to assure proper operation, and so that you may enjoy its full performance for many years to come.

BEFORE ENJOYMENT

For safety's sake, keep in mind the following cautions.

1. Do not connect the unit to the power source without other components connected to the unit beforehand.
2. Before plugging into the AC outlet, make sure the power switch is off, and the volume control is set at minimum.
3. Do not connect non-audio electric appliances to the convenience AC outlets on rear panel.
4. Do not connect any electric appliances which have wattage more than the rated value indicated for each outlet on the rear panel.

Note: Before normal operation, the relay protection circuit works for about seven seconds after turning the power on. No sound will come out during this time.

INSTALLATION

Be sure to place the unit in a level and flat place where it is free from humidity, vibration, high temperature and not exposed to direct sunlight.

Be careful not to place the unit in a highly enclosed place such as near a wall or on a bookshelf. A poor ventilation will cause undesirable effects to the unit.

CONNECTION OF CONTROL AND POWER AMPLIFIERS

Connect the OUTPUT terminals of the control amplifier to the INPUT terminals of the power amplifier. Be certain that respective right and left terminals are properly matched.

COMPONENTS CONNECTION

EXCLUSIVE NOTE FOR U.K.

If your unit comes with a 3-core cable without a plug, make certain live, neutral and (where appropriate) earth leads are connected to the proper terminals.

Check that the terminals are screwed down firmly and no loose strands of wire are present.

WARNING: THIS APPARATUS MUST BE EARTHED.

IMPORTANT: The wires in this mains lead are coloured in accordance with the following code:

GREEN/YELLOW: EARTH
BLUE : NEUTRAL
BROWN : LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured makings identifying the terminals in your plug proceed as follows.

The wire which is coloured GREEN/YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol ⏚, or coloured GREEN/YELLOW.

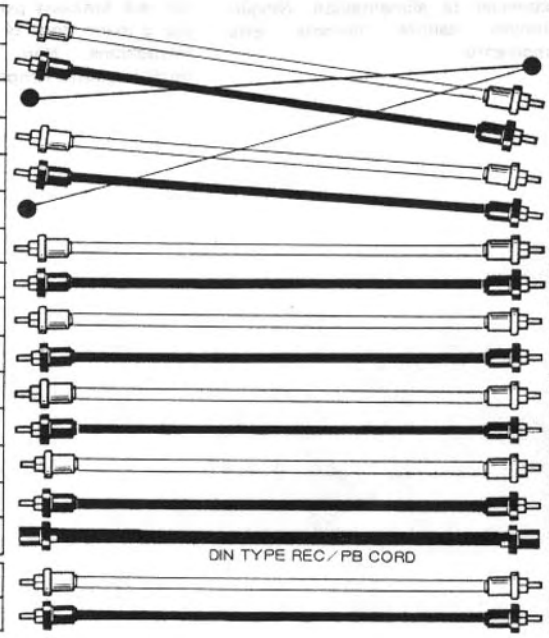
The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLUE or BLACK. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured BROWN or RED.

The apparatus must be protected by a 3 Amp fuse if a 13 Amp (BS 1363) plug is used. If another type of plug is used a 5 Am fuse or lower must be used, either in the plug or adapter or at the distribution board.

CONNECTIONS GUIDE

AUDIO COMPONENTS

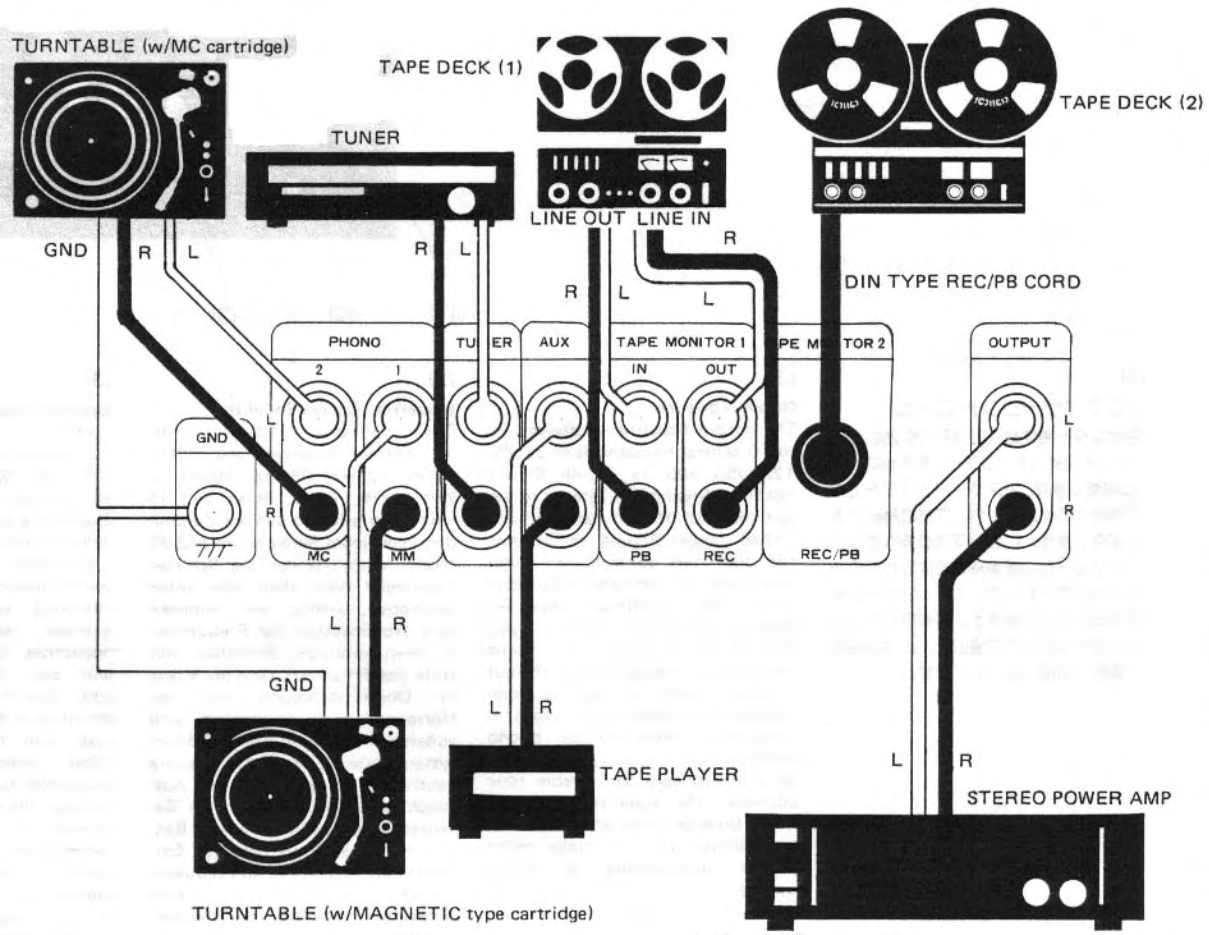
TURNTABLE (with MC type cartridge)		L
		R
		G
TURNTABLE (with MAGNETIC type cartridge)		L
		R
		G
TUNER		L
		R
TAPE PLAYER		L
		R
TAPE DECK (1)	LINE OUT	L
		R
	LINE IN	L
		R
TAPE DECK (2)		DIN
POWER AMP	INPUT	L
		R



(RC-1000)

TERMINALS (on the rear panel)

GND		
L	2 (MC)	PHONO
R		
L	1 (MM)	
R		
L	TUNER	
R		
L	AUX	
R		
L	IN (PB)	TAPE MONITOR (1)
R		
L	OUT (REC)	
R		
REC/PB	TAPE MONITOR (2)	
L	OUTPUT	
R		



CONTROL FUNCTIONS

(1)
Power Switch
Pressing this switch will turn the power on, and the pilot lamp will illuminate, indicating that the unit is functioning.

(2)
Phones Jack
You may connect a pair of headphones to this jack. For a private listening, turn all speaker switches OFF. The headphone level may be adjusted with the volume control.

(3)
Octave Equalizer
The octave equalizer is divided into 10 central frequencies of 32, 63, 125, 250, 500, 1k, 2k, 4k, 8k and 16kHz, allowing the listener to adjust the level of each band within a ±12dB range. Raising or lowering the slide level controls will either accenuate or decrease frequencies within their respective ranges. By making use of the equalizer, you are able to adjust sound to match the acoustic characteristics of your listening room, as well as compensate for conspicuous peaks in frequencies produced by phono cartridges or speakers. In contrast to standard bass and treble tone controls, the equalizer covers a much broader range of frequencies, and allows you to make more precise adjustments in sound quality.

(4)
Equalizer Switch
Press this switch ON to begin operation of the octave equalizer circuit. The equalizer circuit will be bypassed when in the OFF position.

(5)
Subsonic Filter
This filter is employed to cut ultra-low frequencies which are below the range of hearing. Depressing this switch will cut unfavorable low frequencies such as those produced by turntable motor rumble.

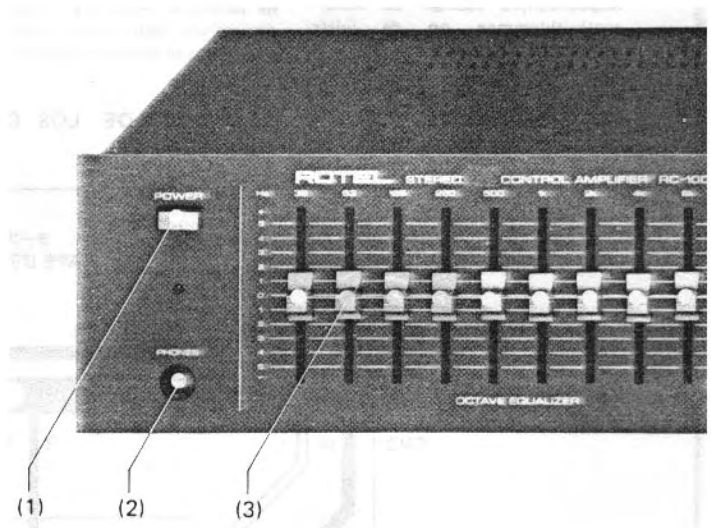
(6)
Mode Switch
Depressing this switch will mix the right and left channels for monaural sound reproduction. Normally this switch is left in the 'OFF' (stereo) position.

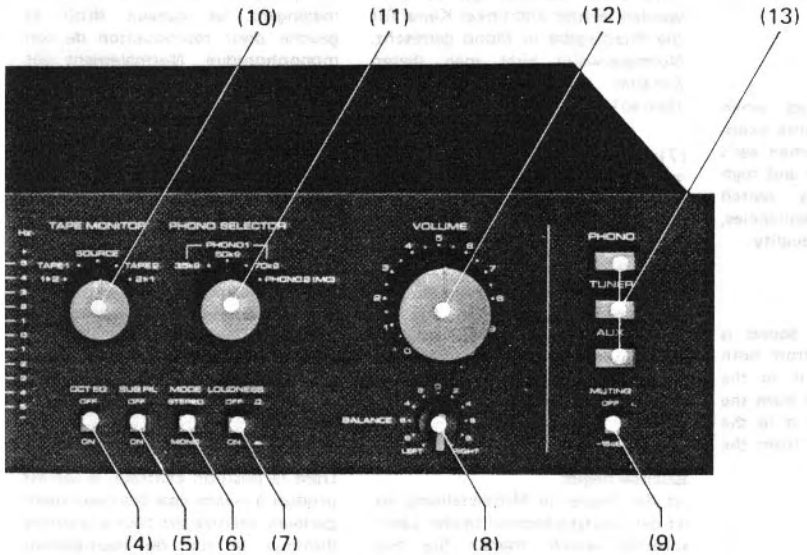
(7)
Loudness Switch
This switch is employed when listening at decreased volume levels, to help overcome the human ear's loss of sensitivity to low and high frequencies. Using this switch boosts bass and treble frequencies, to provide natural sound quality.

(8)
Balance Control
In the central position, sound is produced in equal level from both speakers, while turning it to the right decreases the sound from the left speaker, and turning it to the left decreases the sound from the right speaker.

(9)
Audio Muting Switch
This switch functions to reduce the volume level by one-sixth.
This function is convenient to reduce the volume level momentarily when starting to lower the tonearm onto a record or answering a telephone call.

(10)
Tape Monitor Control
Use this switch to select for tape playback, tape copying, or for other programs.





(11)

Phono Selector

The Phono 1 position is compatibke with high output cartridges of the magnetic, IM and MC types. You may also select the impedance best suited to your cartridge, whether 35kΩ, 50kΩ or 70kΩ. In the 35kΩ position, the high ranges of a standard 50kΩ cartridge will tend to be de-emphasized, and increased in the 70kΩ position. Select the most suitable position while listening to your system. The Phono 2 position is used exclusively for low-output type cartridges. Since an MC head amplifier is built into the unit, you may directly connect a low-output MC type cartridge, without the need for a step-up transformer or external head amplifier.

(12)

Volume Control

Turn the control clockwise to increase the sound level and counterclockwise to reduce the level.

(13)

Function Selector

Press the buttons marked Phono, Tuner or Aux to select one of these source programs. Since the 3 switches are interlocked, when a button is pressed to select a new source, the button of the previous source will automatically return to its original position.

OPERATION

First check to make certain that the power source connections and all connections between the power amplifier, tape deck and turntable have been correctly made.

Reproduction From Program Sources

TURNTABLE

I. For turntables with MC type cartridges

1. Set the tape monitor switch to the SOURCE position.
2. Press in the PHONO button of the function selector.
3. Set the phono impedance selector to the PHONO 2 (MC) position.

II. For turntables with magnetic type cartridges

1. Set the tape monitor switch to the SOURCE position.
2. Press in the PHONO button of the function selector.
3. Set the phono impedance selector of the phono 1 section to one of the 35 kΩ, 50 kΩ, and 70 kΩ positions, whichever is best suited to the cartridge you are using.

TUNER

1. Set the tape monitor switch to the SOURCE position.
2. Press the function selector switch to the TUNER position.

AUX COMPONENT PLAYBACK

1. Set the tape monitor switch to the SOURCE position.
2. Press the function selector switch to the AUX position.

TAPE PLAYBACK

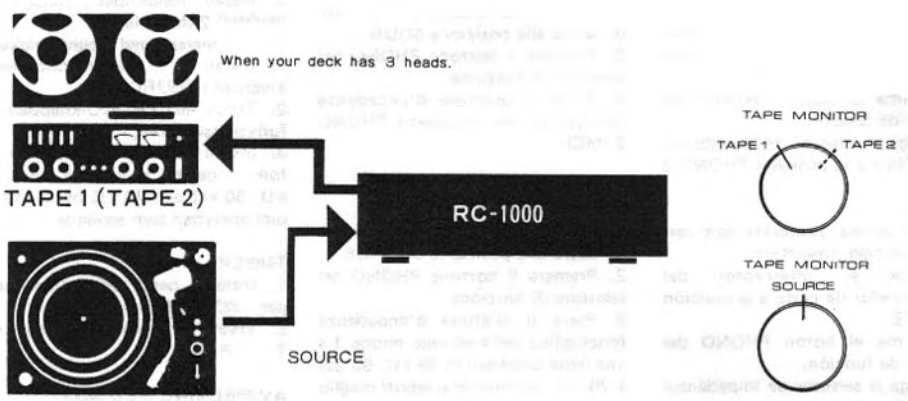
Set the tape monitor switch to either the Tape 1 or Tape 2 position.

Operation Procedure

Be certain to set the volume control to the minimum position whenever you turn on the power to this unit or to the power amplifier. The power should be turned on after you have first set the monitor switch and function selector. The unit will then begin normal operation following the momentary action of the protection circuit. You may now adjust the volume to the desired level and begin listening to the program source.

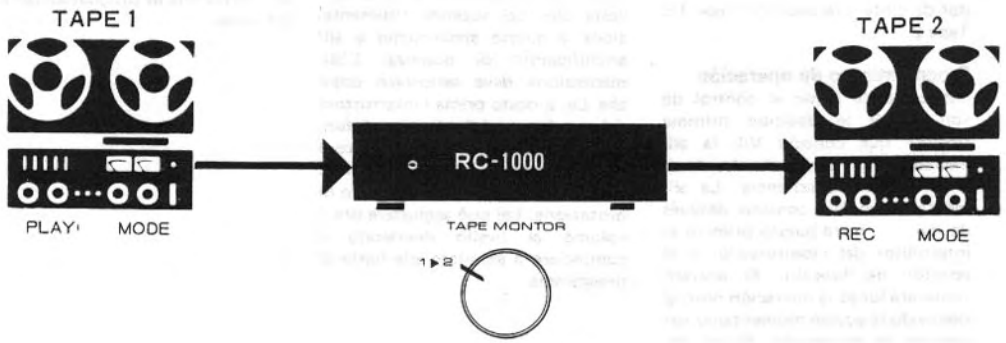
Tape Recording

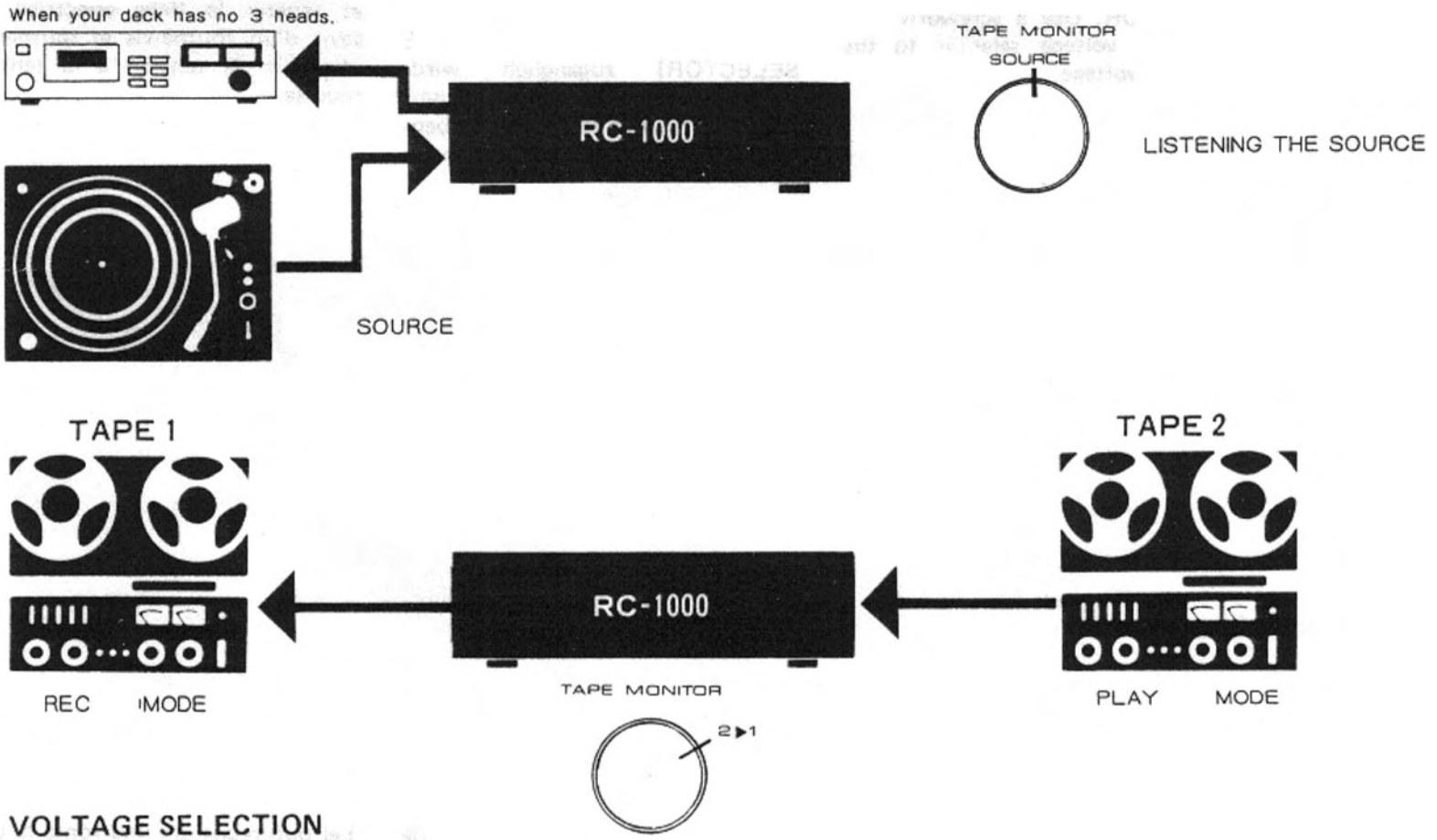
You can record a program source onto a connected tape deck by setting it to the record mode. Volume, tone, and other sound controls have no effect on the recording signal. When listening to a previously recorded program, these controls may be used to obtain your own preferred sound qualities.
During recording, the monitor switch allows you to listen to either the original source or the recorded sound.



Tape Dubbing

You may copy tapes from deck 1 to deck 2 by setting deck 1 in the Playback mode, with tape deck 2 in the Record mode, and the monitor switch in the 1 ▶ 2 position. To copy from deck 2 onto deck 1, set deck 2 in the playback mode, deck 1 in the record mode, and the monitor switch in the 2 ▶ 1 position.





VOLTAGE SELECTION

Not available for U.K., Canada and Scandinavia

The unit is a variable voltage equipment that can run on 120V, 220V or 240V power supply. Your unit should already be preset at the proper voltage for use in your area. However, if you move to an area where the power supply voltage is different, the voltage setting can be manually changed. BE SURE THAT YOUR UNIT IS NOT CONNECTED TO THE POWER SOURCE BEFORE ATTEMPTING TO MAKE THIS CHANGE.

To check the voltage setting, remove the name plate on the rear panel and locate the VOLTAGE SELECTOR. Use a screwdriver to turn the voltage selector to the required voltage.

SPECIFICATIONS:

PRE AMPLIFIER SECTION:

Output Voltage/Impedance:
- Rated Output . . . . . .1V/1 kohms
- Max. Output (0.1% THD) . . .3V/1 kohms

Harmonic Distortion (rated output, 20 – 20,000Hz)
- Output 0.03%

Frequency Response:
- Output . . . . . .5 – 70,000Hz, +1.0dB -1.0dB

Hum and Noise (IHF A network):
- TUNER, AUX 95dB
- TAPE MONITOR 1.2. . . . . .95dB
- Residual 0.05mV
- (Volume set at min.)

Input Sensitivity/Impedance:
- TUNER, AUX . . . . . .150mV/30 kohms
- TAPE MONITOR 1, 2 . . . . .150mV/30 kohms

Overload (1kHz, 0.1% T.H.D.):
- TUNER, AUX 6V
- TAPE MONITOR 1; 2 . . . . .6V

PHONO EQUALIZER SECTION:

Phono Equalization . . . . . .±0.5dB (20 to 20,000Hz)

Hum and Noise (IHF, A network):
- Phono 1 . . . . . .75dB
- Phono 2 (MC) 65dB

Input Sensitivity/Impedance:
- Phono 1 . . . . . .2.5mV/35, 50, 70kohms
- Phono 2 (MC) 0.12mV/30ohms

Overload (1kHz 0.5% T.H.D.):
- Phono 1 . . . . . .180mV
- Phono 2 (MC) 10mV

HEADPHONES AMPLIFIER SECTION:

(REF, PRE AMPLIFIER RATED INPUT)

Harmonic Distortion 1kHz) . . .0.6%

Frequency Response:. . . . . .30 – 10,000Hz +0dB, -3.0dB

Hum and Noise 85dB
(IHF, A network)

Residual Noise. 35μV

Output Impedance . . . . . .4 – 16 ohms

Crosstalk (at 10kHz) 40dB

CONTROL CHARACTERISTICS:

Octave Equalizer (±12dB) 32, 63, 125, 250, 500, 1000, 2000, 4000, 8000, 16000

Loudness Contour . . . . . .100Hz (+10dB), 10kHz (+4dB)

Subsonic Filter . . . . . .15Hz/12dB/oct.

Audio Muting . . . . . .-15dB

MISCELLANEOUS:

Power Requirements . . . . . .120V/60Hz, 220V/50Hz, 240/50Hz, 100, 120, 220, 240V/50 – 60Hz (switchable)

Power Consumption . . . . . .16 watts (max.)

Dimensions (overall) . . . . . .W 430mm (16-15/16")
H 98mm (3-27/32")
D 290mm (11-13/32")

Weight (net) . . . . . .4.9kg/10.78 lbs.

Note: Specifications subject to change for improvement without prior notice.