STEREO DISC AMPLIFIER 2

FOR BROADCASTING, DISC MONITORING AND TRANSFER WHEN REPLAY SIGNALS OF THE HIGHEST QUALITY ARE REQUIRED AT LINE LEVEL.

FRONT PANEL

REAR PANEL

The unit takes signals directly from a magnetic pick up cartridge and provides equalisation according to the microgroove characteristic. The signals then pass through high frequency scratch filters which are switched on the front panel and through low frequency filters to remove rumble. The final stages are line amplifiers which provide electronically balanced outputs with a low source impedance. The line amplifiers are protected against mains or static voltages applied to the balanced lines either individually or common mode.

Cartridge impedance interaction effects are exceptionally low and the harmonic distortion at all audio frequencies, at normal signal levels, is below the noise. The amplifier has very low levels of static and dynamic intermodulation distortion and low hum levels are achieved by the use of an electrostatically screened and mumetal shrouded mains transformer. Precautions are taken in the input stages to minimise radio frequency interference.

The unit has a front panel power indicator light and power supplies using integrated circuit positive and negative voltage regulators. Adjustment of sensitivity is provided through holes in the box to allow accurate setting of output levels for the type of cartridge in use.

The pick up inputs are solidly made lock-DIN connectors and all components on the rear panel are clearly identified. The case is of strong diecast aluminium construction with an attractive, durable blue epoxy finish.

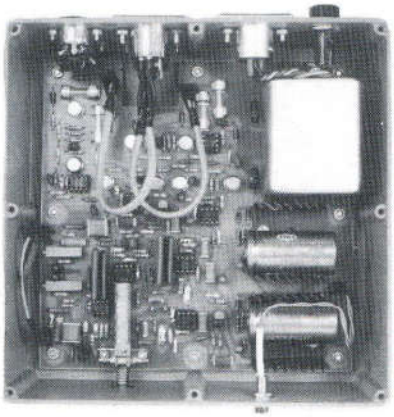
Stereo Disc Amplifier 2 has unmatched specifications and each unit comes with a check out sheet showing test results for the main parameters. The unit meets the IBA requirements for disc amplifying equipment.

SPECIFICATION

Inputs	Separate lockable DIN 3 pole—Pins 1 and 2 common
Input impedance	47kΩ±3%. 80pF
Outputs, electronically balanced	XLR 3 pole male Pin 1 Common Pin 2 Signal Red Pin 3 Signal Blue Withstands mains or static voltages on lines either individually or common mode
1 KHz at 6mV set for OdBV.7 output,	loaded 600Ω
Total harmonic distortion	
Output +10dBV.7	30Hz—20KHz below noise
Output +20dBV.7	(1KHz —86dB, 0.004% (30Hz—20KHz —80dB, 0.008%
Static intermodulation distortion 50Hz + 7KHz, 4:1	
Output +10dBV.7	—88dB, 0.003% measurement limit
Output +20dBV.7	—80dB, 0.008%
Dynamic intermodulation distortion	3.18KHz square wave (single pole —3dB @ 100KHz) +15KHz sine wave, 4:1. Relative to 15KHz component.
Pre-emphasised input 500mV pk-pk	—70dB, 0.03%
Cartridge impedance interaction on frequency response	
High inductance cartridge, 1H	Less than 0.2dB
Differential phase shift between left and right channels	
50Hz—20KHz	Within 0.5°
Worst error at LF and HF filter turnovers	Within 5°
Low frequency response	
18dB/octave	—3dB @ 24Hz
Group delay relative to 1KHz	—10ms @ 30Hz
High frequency filter	
Front panel switch	10KHz, 18dB/octave
Change in response at 8KHz or below	Within 0.5dB
Frequency response accuracy to BS1928, RIAA	
30Hz—20KHz	Within 0.5dB
Clipping at 1KHz	+24dBV.7
Clipping point complementary to RIAA curve	
30Hz—20KHz	Within 1dB
Clipping determined by onset of peaky distortion products or THD exceeding —80dB.	
Noise	
Short circuit input	—70dBV.7 } 20Hz--20KHz,mean reading meter
Cartridge source, 100mH	—67dBV.7 }
Crosstalk	1KHz —76dB; 30Hz—20KHz —60dB
Sensitivity at 1KHz	2.8—13mV for OdBV.7 output, adjustable
Mains input	XM connector. 110 or 200—250V 50—60Hz 10VA
Dimensions and weight	190 x 190 x 70mm; 1.6Kg

3 metres mains lead with XM connector and two lock-DIN input plugs supplied along with instructions and servicing details.

INSIDE VIEW



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