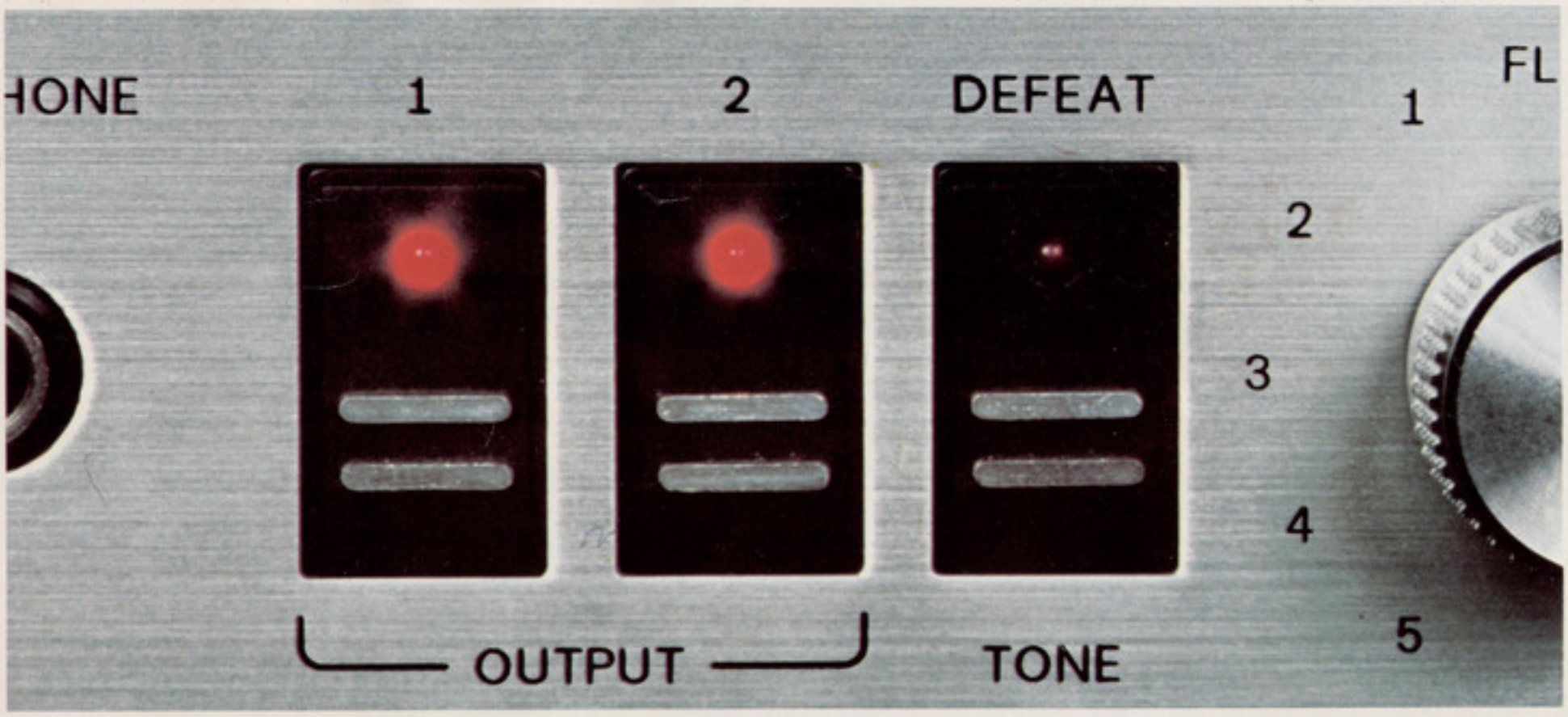
Philips sheds some new light on what you should demand in a preamplifier.

PHILIPS

The AH 572 High Fidelity Stereo Preamplifier



trols in a Baxandal feedback circuit allow the user to vary the frequency response in 2dB steps with the mid-position perfectly flat. A touch operated tone defeat switch duplicates the flat response of the mid-control position. Sophisticated electronic switching allows the tone defeat to fade in and out eliminating annoying clicks and pops.

20dB MUTE A touch of the finger activiates an electronic circuit which smoothly cuts a 20dB attenuator in and out of the circuit. The use of the 20dB mute allows the user to decrease the volume and then return to the listening conditions as they were set before activating the touch switch.

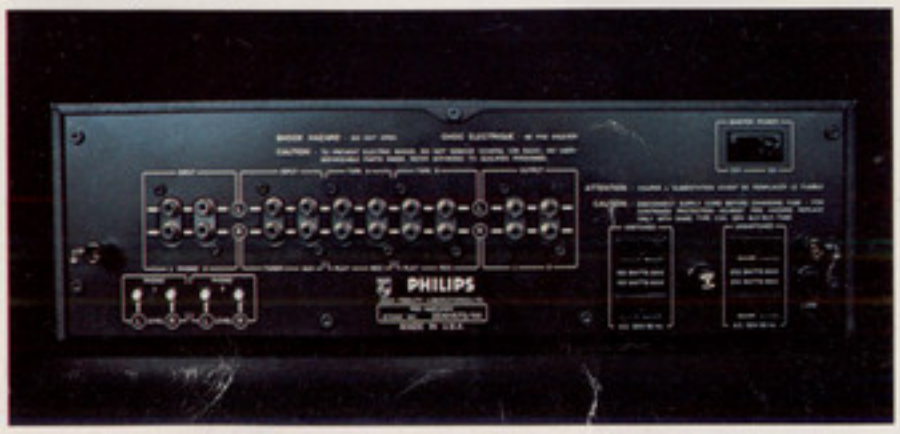
LIGHTED DISPLAY Front panel illuminated function read-outs provide the user with at-a-glance knowledge of operational modes, functions and direction of the signal path.

ELECTRONIC TOUCH SWITCHES The activation of power, outputs 1 and 2, tone defeat, high and low-cut filters, 20dB mute, loudness, and tape monitor functions are controlled by touch-on/touch-off switches, using advance CMOS circuitry. A slight touch of a finger activates the desired function on and illuminates the LED indicator above the bars. Another touch cancels the function and extinguishes the LED indicator.

MEMORY LOCK An auxiliary power supply provides for memory circuits even when preamplifier is turned off—functions are stored in the memory and need not be reset each time the system is turned on. A master power switch, located on the rear panel removes all power from the set, including the auxiliary supply.

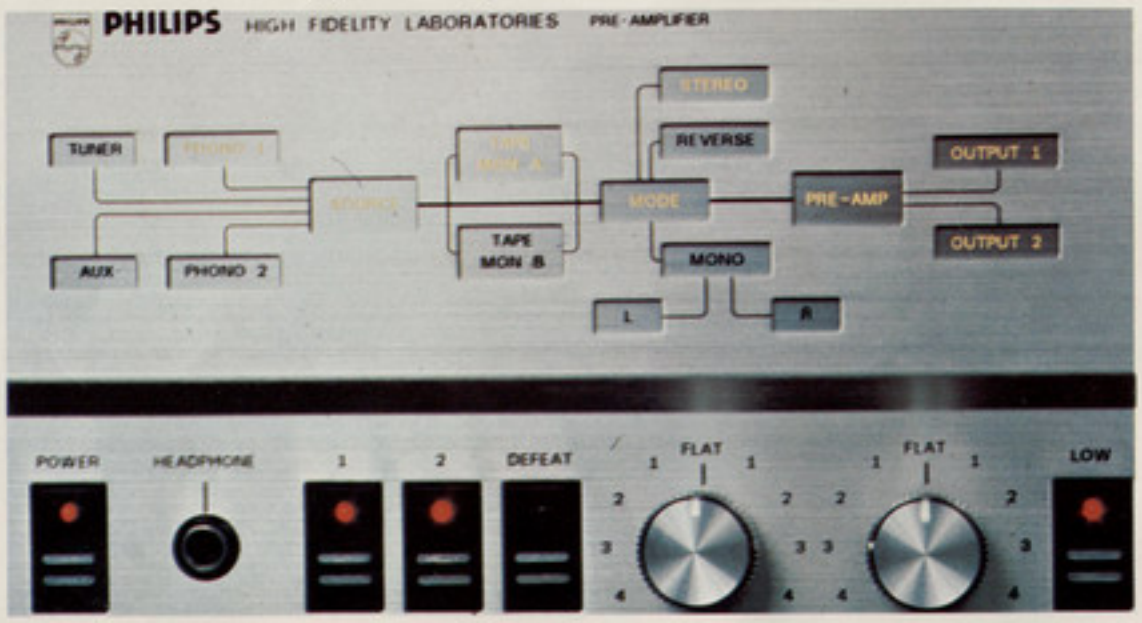
LOW IMPEDANCE OUTPUT AMPLIFIER A low output impedance (600 ohms) amplifier with two parallel outputs allows the use of long cables without affecting frequency response. A time delay circuit prevents output to the back panel output jacks until all turn-on transients have subsided.

HEADPHONE JACK A front panel headphone jack permits private listening—and the headphone output has the same distortion and frequency response specs as the back panel preamp outputs.



Demand a preamplifier where lighted read-outs and touch switches end guesswork.

The front panel of the Philips Preamplifier has 16 function read-outs that light up to indicate modes of operation. The nine touch switches are all illuminated with LED indicators. All these lights were put on the front panel because this preamplifier fairly glows with extra engineering. And we want you to enjoy every last bit of it.



Notice the so-called little things like recording and playback jacks placed on the front panel. If you've ever had to jockey with a pre-amp to get to the rear outlets, this small feature can become very large indeed.

PHONO PREAMPLIFIER Two separate stereo phono preamps with individually adjustable gain controls allow the operator to match each turntable output to other components in the system. Phono 1 is pre-set at 2mv sensitivity and Phono 2 is pre-set at 10mv sensitivity. Both can be adjusted from 1.5mv to at least 18mv. The 47K ohms resistive input impedance perfectly matches the required cartridge loading. RIAA response is duplicated within ±.25dB over the entire frequency range. The ultra linear 5 stage differential input, complementary output design provides high overload (150mv Phono 1,750mv Phono 2), low distortion and low noise (>65dB Phono 1 and >75dB Phono 2).

HIGH LEVEL INPUTS Emitter followers on all high level inputs eliminate the need for shielded cables which can reduce frequency response and lead to poor separation.

LOW DISTORTION The use of low noise, wide bandwidth, ultra-linear circuits throughout results in less than .008% intermodulation and total harmonic distortion at rated output from 20Hz to 20kHz.

TAPE SWITCHING A unique front panel tape selector switch, combined with a monitor switch lets you conveniently select any conceivable recording or playback condition. Dubbing can be done from one tape to another while listening to your favorite disc recording or FM station.

FLAT FREQUENCY RESPONSE Accurate response guaranteed to be ±0.5dB from 10Hz to 40kHz.

VOLUME CONTROL Step detented volume control provides precise steps of attenuation to 50dB down from rated output. Detents insure exact repeatability.

MODE SWITCH A front panel mode switch provides the flexibility of reversed channels, normal stereo, or 3 mono modes (left plus right, left only, right only).

FILTERS The touch of a finger activates double section high-cut or low-cut filters which removes annoying hiss and rumble.

TONE CONTROLS Step detented bass and treble con-

Some illuminating facts and figures.

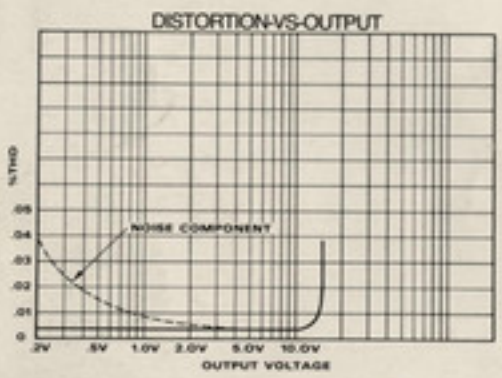
TECHNICAL DATA

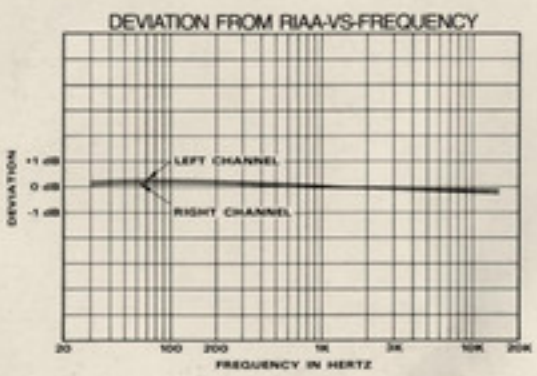
The Philips AH 572 Preamplifier.

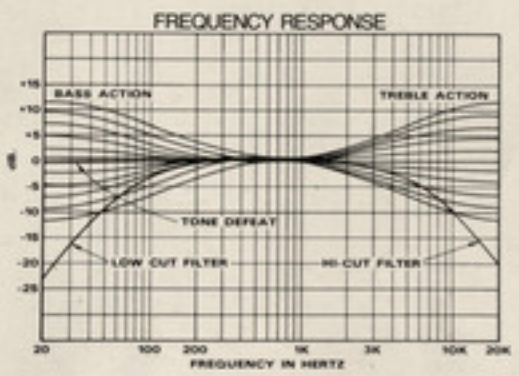
Performance

Input Sensitivity (Ref. Output)	
Phono 1	2mv (Adj 1.5—18mv)
Phono 2	10mv (Adj 1.5—18mv)
Aux, Tuner, Tape Play	200mv
Total Harmonic Distortion	.008% @ Ref. Output
Intermodulation Distortion	.008% @ Ref. Output
Signal to Noise Ratio	
Phono (2mv input)	75dB (A Weighting)
Aux, Tuner, Tape	90dB (A Weighting)
Phono Overload	750mv
Frequency Response	
Phono 1, 2	RIAA ±0.25dB
Aux, Tuner, Tape	10 — 50kHz, ±0.5dB
Separation	
Phono 1, 2	55dB
Aux, Tuner, Tape	55dB
Crosstalk	
Between Modes	75dB

Output Level	
Output 1, 2 Rated	2 Volts
Maximum	12 Volts
Record Output A, B	200mv
Impedance	
Phono input 1, 2	50 K Ohms
Aux, Tuner, Tape Play	100K Ohms
Tape Record Out	1K Ohms
Pre-amp Out	600 Ohms
Controls	
Bass @ 50Hz	±10dB (2dB/detent)
Treble @ 10kHz	±10dB (2dB/detent)
Loudness Action @ −30dB	
50Hz	+10dB
10kHz	+ 4dB
Filters	
High Cut @ 10kHz	−9dB
Low Cut @ 50Hz	−9dB
Muting	−20dB
AC Outlets	2 Switched, 2 Unswitched
Power Supply	AC 120V, 50, 60Hz
Power Consumption	22 watts







Features

General
- Supply Voltage (120vac @ 60Hz)
- UL and CSA Approved

Front Panel
- Function Display Lighted
  - Tuner
  - Tape A
  - Tape B
  - Phono1
  - Phono 2
  - Aux.
  - Stereo
  - Mono
    - Left
    - Right
  - Reverse
  - Tape Monitor A
  - Tape Monitor B
  - Pre-Amp, Mode, Source
  - Output 1
  - Output 2
- Headphone Jack
- Controls (Rotary)
  - Volume (Step Detent)
  - Treble (Step Detent)
  - Bass (Step Detent)
  - Balance (Continuously Variable with center detent)
- Selector Switch (Rotary)
  - Phono 1
  - Phono 2
  - Tuner
  - Aux.
- Mode Switch (Rotary)
  - Reverse
  - Stereo
  - Mono
  - Left
  - Right
- Tape Monitor Select (Rotary)
  - A-B
  - A
  - Source
  - B
  - B-A
- Power Switch (Touch)
- Touch Switches with LED
  - Output 1 (ON-OFF)
  - Output 2 (ON-OFF)
  - Tone Defeat (ON-OFF)
  - Filter High Cut (IN-OUT)
  - Filter Low Cut (IN-OUT)
  - Mute (−20dB) (IN-OUT)
  - Loudness (ON-OFF)
  - Monitor/Source (Either/or)
- Inputs
  - Tape B
- Outputs
  - Tape Record B

Rear Panel
- Inputs
  - Phono 1 (2)
  - Phono 2 (2)
  - Tape A (2)
  - Tape B (2)
  - Tuner (2)
  - Aux (2)
- Outputs
  - Audio 1 (2)
  - Audio 2 (2)
  - Tape A (2)
  - Tape B (2)
- AC Receptacle
  - Switched (2)
  - Unswitched (2)
- Main Fuse
- Master Power Switch
- Dimensions:
  - 5½" x 18" x 13½"
- Weight:
  - 22 lbs.

Data subject to modification without notice.

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