

Features:

As expected with a product of this caliber, the SP-6B offers many outstanding features to the audiophile perfectionist.

Automatic muting - A two minute warmup timer insures muting of undesirable subsonic output during circuit stabilization. Continuous protection against unwanted DC output due to any cause is provided by four output sensors that automatically mute both main outputs. No troublesome relays or electrical contacts are used. A blinking front-panel LED provides a visual indication when the automatic mute is activated.

Manual muting - A front panel mute switch is included for repeat settings, interruptions, etc.

High accuracy, close tracking, segmented gain control -

A metal-film stereo volume control assures trouble free, close tracking volume selection in 2 dB steps (guaranteed 1.5 dB tracking, .5 dB typical).

Distortion - null adjustments - Four internal trim-pots allow for optimizing circuit linearity for individual tube characteristics, both initially and throughout tube life.

Selectable gain "range" switch - A rear panel switch allows for better gain matching of high efficiency loudspeakers, high output cartridges, transformers, etc.

Specifications:

Frequency Response:

High level section, $\pm$.25 dB, 5 Hz to 30 kHz.
- 3 dB points below 1 Hz and above 100 kHz.

Magnetic phono, $\pm$.25 dB of RIAA from 30 Hz to 40 kHz.

Harmonic Distortion:

Less than .01% at 2 volts RMS output, 20 Hz to 20 kHz (typicaly .0005% in midband).

Intermodulation Distortion:

Less than .002% at 2 volts RMS output.

Gain:

Magnetic phono input to tape output, 34 dB.
Magnetic phono input to main output, 60 dB.
High level inputs to tape output, 0 dB.
High level inputs to main output, 26 dB.

Input Impedance:

50k ohms, all inputs. (Magnetic phono may have any value substituted from 10 ohms to 100k. Also has provision to add to the 40 pF input capacitance for matching certain magnetic cartridges).

Output Impedance:

Less than 500 ohms main output, 1000 ohms tape output. Recommended minimum load for maximum audio quality, 50k ohms and 250 pF maximum capacitance.

Maximum Inputs:

Magnetic phono, 500 mV at 1 kHz (1.5V RMS, 10 kHz).
High level inputs are essentially overload proof.

Separate front panel power receptacle switch - A front panel switch operates 3 relay-controlled outlets with a 1600 watt capacity for power amplifiers and other outboard devices.

Special Off-Chassis construction - The special isolated-ground construction floats all inputs and outputs from the chassis. Special rejection filters are also included to minimize or eliminate RFI, TVI, and CB interference.

Sonically-Selected Components - Extensive use of selected low-noise premium grade vacuum tubes, special metal film resistors, and multiple shunt capacitors provide optimum sonic accuracy.

Other features include a rear panel provision for disconnecting the common ground from the chassis so that rack mount installations may be accomplished without ground loop induced hum. Front and rear panels are of two-color anodized aluminum construction for permanent finish and lettering. Industrial grade components and construction are used for long service life.

Rated Outputs:

2V RMS 5 Hz to 30 kHz, all outputs, 60 ohm load.
(Main output capability is 60V RMS output at .5% THD at 1 kHz into a 500k ohm load with 3V RMS high level input.)

Power Supplies:

4 electronically-regulated solid-state supplies. Frequency-compensated high voltage supplies have a total equivalent low frequency stability of greater than 3 farads of capacitance. Line regulation better than .001%.

Noise:

High level, (1) 250 μ V RMS maximum residual unweighted wideband noise at main output with gain control minimum.
(2) More than 90 dB below 1 volt RMS input (less than 20 μ V equivalent input noise).

Magnetic phono, 5 μ V equivalent input noise, wideband RMS (-66 dB reference 10 mV input).

Tube Complement:

6 premium grade ECC83 dual triodes.

Power Requirements:

100-120/190-240 VAC, 50/60 Hz, 35 watts.

Dimensions:

19" x 5 1/4" x 10 1/4" (48cm x 13.4cm x 26cm).

Weight:

22 lbs net, 30 lbs shipping (10 kg net, 13.75 kg shipping).

Optional walnut or oak cabinet available at additional cost.



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