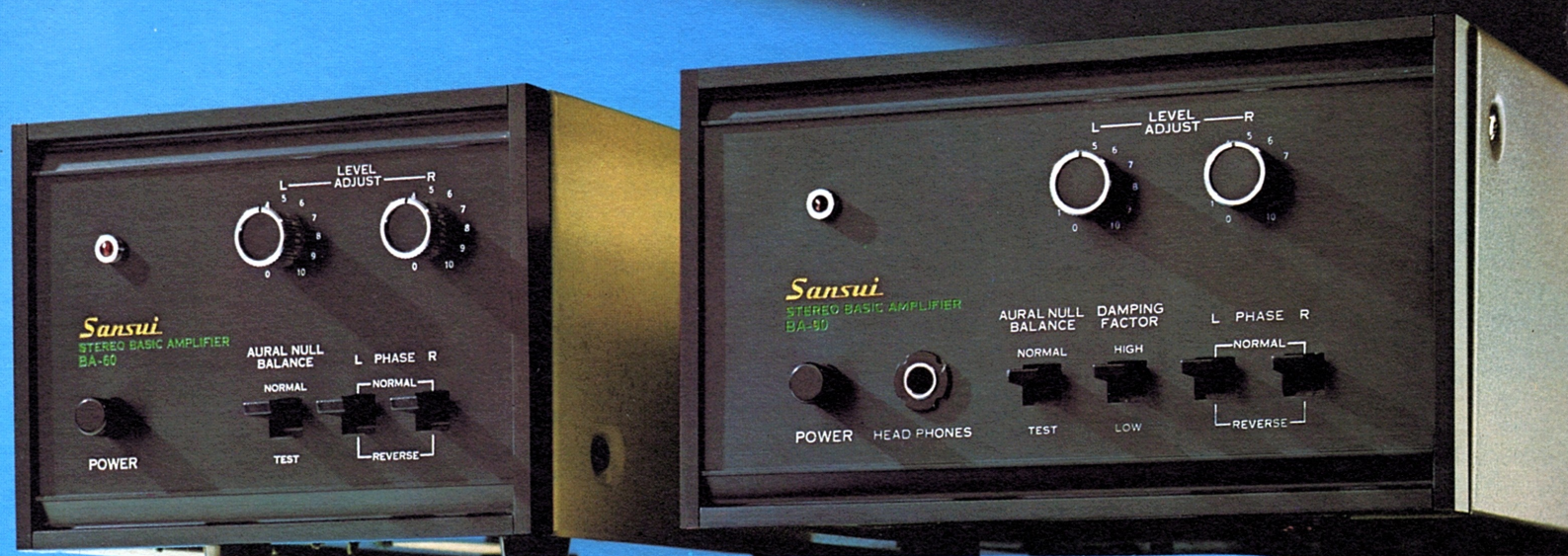


Sansui®

BA60/90



SOLID STATE BASIC STEREOPHONIC AMPLIFIERS If sound transparency is the single most important criterion for judging the performance of a basic amplifier, both the Sansui BA-60 and BA-90 stand in a class by themselves. Both have been elaborately designed with emphasis on such performance features as low distortion, high outputs, and wide dynamic ranges, as well as featuring control functions never before found on comparable basic amplifiers. The BA-60 offers 60 watts in music power, a wide 20 to 40,000Hz power bandwidth and less than 0.3% distortion at rated output. The larger BA-90 offers 90 watts in power output, a wider 15 to 40,000Hz power bandwidth and the same small distortion factor. But since technical data alone cannot determine the tone quality offered by an amplifier, both the BA-60 and BA-90 have been developed out of repeated listening tests under every conceivable acoustical condition. Sansui confidently recommends them for use in electronic crossover systems where the highest level of tone quality is essential.

SANSUI

PERFORMANCE FEATURES WHICH INSURE EXCELLENT TONE QUALITY

BA-60

60 WATT OUTPUT, LOW DISTORTION, WIDE POWER BANDWIDTH: Indicative of the high performance of the BA-60 is a music power output of 60 watts at 4 ohms. Distortion factor is less than 0.3%, and power bandwidth ranges from 20 to 40,000Hz. Frequency response range is from 20 all the way up to 60,000Hz. It has been repeatedly tested and retested under all possible listening conditions and proved to offer ample reserve in its bass response as well as to minimize distortion in low output usage.

WELL-DAMPED, CLEAR TONE QUALITY: The adoption of SEPP-OTL-ITL circuitry utilizing only quality silicon transistors insures vivid sound. At the same time, application of a large quantity of negative feedback keeps the distortion to a negligible proportion, providing for well-damped, refreshingly clear-cut tone quality.

POWER TRANSISTOR PROTECTION CIRCUIT: While the power transistors are sufficiently protected in circuit design, a circuit breaker is also incorporated to doubly protect them under all operating conditions.

BA-90

ADVANCED CIRCUIT DESIGN: The output circuit of the BA-90 is a direct-coupled three-stage amplifier utilizing low noise transistors; the first stage is a silicon PNP pre-driver. It features a superior bass response, extremely low distortion in low output usage, and unprecedentedly low intermodulation distortion.

BUFFER AMPLIFIER: Because the BA-90 is provided with a buffer amplifier, the input impedance is always kept constant regardless of the position of the input level adjustor.

BIG OUTPUT, LOW DISTORTION, WIDE BANDWIDTH: Indicative of the BA-90's ultra high performance are these specifications: music power output, 90W (4Ω); continuous power, 32/32W (4Ω); distortion, less than 0.3%; power bandwidth, 15 to 40,000Hz; frequency response, 15 to 100,000Hz ± 1 dB.

SPECIFICATIONS

BA-60

POWER OUTPUT:
MUSIC POWER (IHF) 60W (4Ω)
50W (8Ω)
CONTINUOUS POWER 25/25W (4Ω)
20/20W (8Ω)

HARMONIC DISTORTION:
less than 0.3% at rated output

INTERMODULATION DISTORTION
(60Hz : 7,000Hz = 4 : 1): less than 0.3%

POWER BANDWIDTH (IHF):
20-40,000Hz (8Ω)

FREQUENCY RESPONSE (at normal listening level):
20-60,000Hz ± 1 dB (8Ω)

INPUT SENSITIVITY (per 1,000Hz input required to deliver continuous output):
0.7V

INPUT IMPEDANCE:
more than 50 kΩ

LOAD IMPEDANCE:
4-16Ω

SWITCHABLE DAMPING FACTOR: A switch is provided on the front panel to switch the damping factor between HIGH (50 at 8Ω) and LOW (10 at 8Ω). The output impedance of the amplifier can thus be selected, with a flick of a switch, to best match the input impedance of speakers for truer high-fidelity reproduction.

ALL-ELECTRONIC POWER TRANSISTOR PROTECTION CIRCUIT: Sansui's unique all-electronic protection circuit protects power transistors even if output terminals are accidentally short-circuited. In addition, quick-acting protection fuses are employed to insure absolute safety for the power transistors.

HEADPHONE JACK: A feature not found on any previous basic amplifier is this headphone jack, into which a stereo headphone set can be plugged.

SPECIALLY DESIGNED HEAT SINKERS: Delivering no less than 90W, the BA-90's power transistors are mounted on expensive aluminum extrusion heat sinkers for most effective heat dissipation. The BA-90 can thus offer an unparalleled long life even if operated at full power capacity for extended periods of time.

FUNCTIONAL FEATURES OF BOTH BA-60 AND BA-90

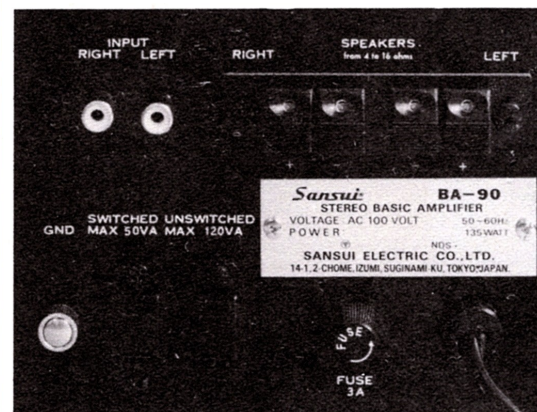
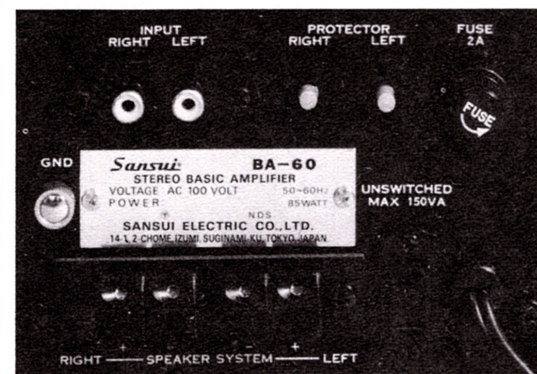
SEPARATE L/R PHASE SWITCHES: The phases of speakers can be easily matched even after they are interconnected to the amplifier. Separate phase switches are provided for right and left speakers. They are extremely useful and convenient in an electronic crossover system.

AURAL NULL BALANCE SWITCH: Balancing the right and left channels accurately is often a difficult job with most basic amplifiers. It isn't with these amplifiers because an Aural Null balance switch has been provided. Simply set this switch to the TEST position, and the right and left speakers will be connected in series.

INDEPENDENT L/R VOLUME CONTROLS: The sound volume in each channel can be independently controlled. This, unlike previous basic

amplifiers, avoids feeding unbalanced outputs to right and left speakers.

IDEAL FOR USE IN A BI- OR TRI-AMPLIFICATION SYSTEM: Compact dimensions, negligible heat radiation, excellent efficiency, high performance, economical price... all these features make the BA-60 and BA-90 ideal for use in an electronic crossover system. It is also possible to upgrade such a system into a still higher performing system later by using these amplifiers in conjunction with other high-performance amplifiers from Sansui.



DAMPING FACTOR: 46 (8Ω)
HUM AND NOISE (IHF): better than 80dB
CHANNEL SEPARATION: better than 50dB
POWER VOLTAGE: 100, 117, 220, 240V
50 or 60Hz
POWER CONSUMPTION: 100VA
DIMENSIONS: 4 3/8" H x 6" W x 10 3/8" D
WEIGHT: 9.2 lbs.

BA-90

POWER OUTPUT:
MUSIC POWER (IHF) 90W (4Ω)
70W (8Ω)
CONTINUOUS POWER 32/32W (4Ω)
28/28W (8Ω)

HARMONIC DISTORTION:
less than 0.3% at rated output
0.1% at 1/2 output
0.1% at 1/10 output

POWER BANDWIDTH (IHF):
15-40,000Hz (8Ω)

FREQUENCY RESPONSE (at normal listening level):
15-100,000Hz (± 1 dB)

INTERMODULATION DISTORTION
(60Hz : 7,000Hz = 4 : 1): less than 0.3%

INPUT SENSITIVITY: 1V at rated output

INPUT IMPEDANCE: more than 100kΩ

LOAD IMPEDANCE: 4-16Ω

DAMPING FACTOR: 10 or 50 at 8Ω

HUM AND NOISE (IHF): better than 80dB

CHANNEL SEPARATION: better than 50dB

POWER VOLTAGE: 100, 117, 220, 240V
50 or 60Hz

POWER CONSUMPTION: 160VA

DIMENSIONS: 4 3/8" H x 7 3/8" W x 14 1/4" D

WEIGHT: 16.5 lbs.

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