

Stereophonic Dual Preamplifier HF85

kit \$39.95 Includes Metal Cover wired \$64.95

Praised by the experts:

"Extreme flexibility... a bargain"—HI-FI REVIEW

"An outstanding buy... it is in performance that the HF-85 excels"—THE AMERICAN RECORD GUIDE

As a complete stereophonic high fidelity control center, the HF85 offers practically every control and switching facility anyone could want in a physical design adaptable to any type of installation. The HF85 selects, amplifies, and controls accurately any stereophonic source—whether it be tape, discs or broadcasts.

Extremely low distortion, bordering on the unmeasurable (even at high output levels), precludes any degradation of quality from the best modern program sources.

The HF85 is self-powered. It utilizes a rectifier tube in a full wave power supply circuit.

It works in conjunction with any high quality stereophonic power amplifier, such as the EICO HF86, HF87 or HF89, or any two high quality monophonic power amplifiers, such as the EICO HF14, HF22, HF30, HF35, HF50, HF60.

features

1. Separate low level inputs in each channel for magnetic phono, tape head, and microphone. Circuitry carefully designed to provide the high gain, without hum and noise, as required by tape heads and high quality, low output magnetic cartridges. A front panel switch permits choice of the proper NARTB tape head equalization for either 7½ and 15 or 3¾ ips tape speeds.

2. Separate high level inputs for AM tuner, FM tuner, and FM-Multiplex. Also two auxiliary A inputs (one in each channel) and two auxiliary B inputs (one in each channel).

3. Extremely versatile function selector has positions for: listening to each channel separately for checking purposes, stereo normal, stereo reverse, monophonic record playing with stereo cartridge (mixes the two channels for cancellation of vertical rumble), monophonic tuner (channels unmixed so that no extraneous noise from the unused input is introduced).

4. Independent level, bass and treble controls for each channel may be operated separately or together with a built-in clutch.

5. Distortionless, 3-stage, independent bass and treble tone control circuits in each channel. Each tone control circuit consists of a feedback amplifier pair (30 db of feedback) driving a true variable crossover, feedback tone control stage. Bass and treble controls do not interact with each other or affect the level. Bass controls in both channels and treble controls in both channels are concentric.

6. Fletcher-Munson loudness compensation for low level listening which may be disabled by front panel slide switch.

7. Low impedance output to tape recorder, useful on all inputs. Output to main amplifier impedance permits use of up to 40 ft. of 25 mmfd/ft. shielded audio cable before response at 20,000 cps is affected.

8. Hum balance control, pilot lamp, convenience outlets.

9. New "low silhouette" construction. Very attractive when placed on a shelf or out in the open, yet permits easy console installation with full shielding and adaptability to any panel thickness.

The Very Finest Stereo High



Shown in Furniture Wood Enclosure WE-70

Unfinished Birch \$8.95; Walnut or Mahogany \$12.50

10. Controls include: Input Selector (Auxiliary A, Auxiliary B, AM-FM, FM-Multiplex, Microphone, Phono, Tape); Tape (3¾, 7½-15); Function Selector (Amplifier 1, Amplifier 2, Stereo Normal, Stereo Reverse, Mono Tuner, Mono Phono). Level, Bass and Treble controls for each channel may be locked together for simultaneous control with built-in clutch. Separate ON-ON switch and pilot light.

specifications for both channels

Frequency Response: ± 0.3 db 5-200,000 cps at any level up to 3V RMS out. (Measured from high level inputs with level controls set at maximum and tone controls electrically flat.) Sensitivity (input for 2V RMS output at 1000 cps): Mag. Phono-1 mv; Microphone-1 mv, Tape-Head -0.5 mv; High Level Inputs—0.17 V. Hum Noise: Mag. Phono-60 db; Microphone-60 db; Tape Head-60 db; High level inputs-75 db. (For low level inputs, values given are equivalent noise input in db down from 10 mv input level. For high level inputs, value given is equivalent noise input in db down from 0.5 V input level).

IM Distortion (60 and 7000 cps at 4:1)	IM Dist.	V RMS Out
	0.02%	0.5V
	0.03%	1.0V
	0.04%	2.0V
	0.07%	3.0V
	0.11%	4.0V
	0.17%	5.0V

Harmonic Distortion (20-20,000 cps): 0.1% at 3V RMS out; 0.15% at 5V RMS out. Tone Control Range: At 10 kc: 15 db boost, 15 db cut; At 50 cps: 10 db boost, 15 db cut. Equalization: Phono-R1AA; Tape Head-NARTB for 15 ips, 7½ ips, and 3¾ ips. Output to Tape Recorder Impedance: 1,400 ohms. Output to Main Amplifier Impedance: 8,000 ohms. Tube Complement: 5-12AX7/ECC83, 1-6X4. Size: 3¾" high, 12" wide, 8¼" deep. Power Source: 117 VAC, 60 cps. Weight: 10 lbs.