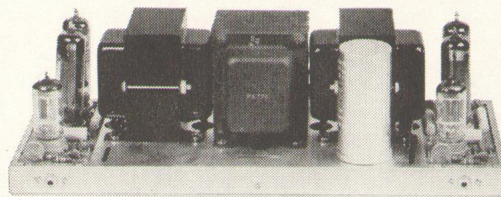


Dynakit Stereo-35

Basic Amplifier



THE EQUIPMENT: Dynakit Stereo-35, a stereo basic amplifier. Dimensions: 13 by 5 by 4 inches. Price (in kit form): \$59.95; wired: \$79.95. Prices include cover. Manufacturer: Dynaco, Inc., 3912 Powelton Ave., Philadelphia 4, Pa.

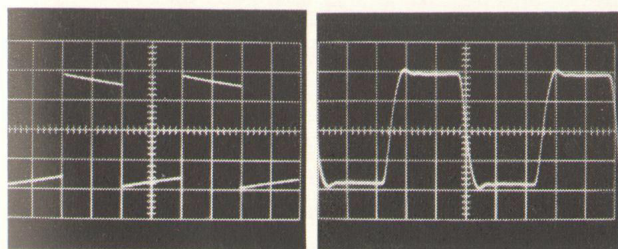
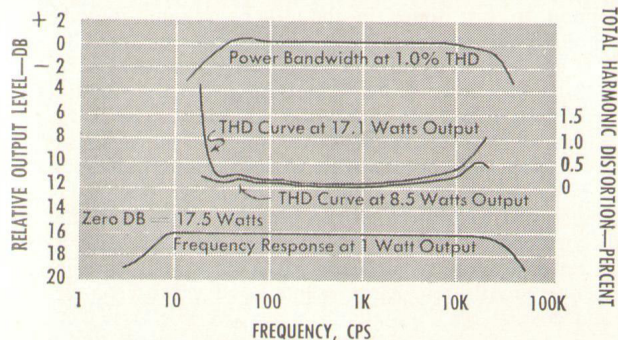
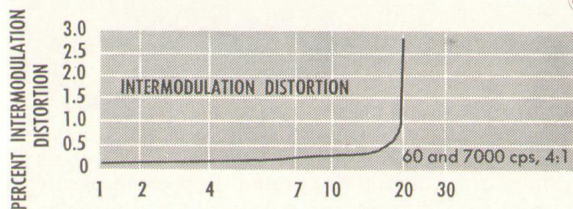
COMMENT: The new Stereo-35 is one of the smallest, simplest amplifiers yet encountered, and also one of the most reliable and clean-performing. Although its power output places it in the "low-to-medium" class of amplifiers, its smooth response, low distortion, and stability under varying loads make it suitable for use with all but the very lowest efficiency speakers in very large rooms. It has no controls or preamplification-equalization circuits and so must be used with an external pre-amp-control unit, or with a program source that has its own level controls, such as a tuner or tape recorder on playback. The Stereo-35 does not even have an AC power switch, and so must be turned off and on by whatever other equipment it is connected to. Speaker taps are provided for 8- and 16-ohm speakers on each channel; no 4-ohm taps are furnished.

Results of tests of a kit-built Stereo-35 conducted at United States Testing Company, Inc., indicate that high

quality has been achieved with a disarmingly simple circuit design. Each channel uses only three tubes, and the power supply is built around two silicon diodes. With these relatively sparse innards, the Stereo-35 is able to produce surprisingly wide response with very low distortion. Its sensitivity is well suited to all preamps and tuners; its signal-to-noise ratio is very favorable at 82 db; and its damping factor of 10 indicates good control of most speakers. The amplifier remained stable under all conditions of loading and would be suitable for driving electrostatics. The square-wave response, for an amplifier of this size and price, was outstanding both at 50 cps and at 10 kc. All told, the Stereo-35 is a very worthy product for the budget-minded listener who is building a compact, but high-quality, music system.

How It Went Together

The Stereo-35 proved to be the fastest and easiest amplifier kit yet encountered. No ambiguities or errors were found in the instructions, and no adjustments were required after wiring and assembly. When completed, the unit simply worked—beautifully.



Square-wave response to 50 cps, left, and 10 kc.

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Lab Test Data

Performance characteristic	Measurement
Power output	
individual channels (8-ohm load)	
left, 1 kc clipping point	17.1 watts with 0.08% THD
left, 1% THD (rated dist.)	18 watts
right, 1 kc clipping point	17.1 watts with 0.08% THD
right, 1% THD (rated dist.)	18 watts
both chs operating together	
left, 1 kc clipping point	14.6 watts with 1.1% THD
right, 1 kc clipping point	14.3 watts with 1.3% THD
Power bandwidth, constant 1% THD	14 cps to 38 kc
Harmonic distortion	
left ch: 17.1 watts output	less than 1%, 23 cps to 18 kc
left ch: 8.5 watts output	less than 0.55%, 20 cps to 20 kc
IM distortion	less than 0.5% to 17.5 w
Frequency response	+0, -1 db, 8 cps to 34 kc; down to -3 db at 49 kc
Damping factor	10
Sensitivity for full output	0.97 volt
S/N ratio	82 db