

For the listener who demands total high power accuracy, the new Stereo 416 includes all the circuitry of the famous Stereo 400 with additional design refinements. Its extensive output stage modification is the circuit acclaimed in the underground audio press as the Double Dyna 400, combined with other deluxe features for superior reliability and performance.

- 16 output transistors drive very low load impedances to enormous power output (greater than 400 watts per channel into 2 ohms).
- 2-speed fan, together with the giant heat sink, dissipates heat efficiently when driving any imaginable speaker load.
- Smoother sound, even at low power levels.
- New 3/16" silver front panel with handles mounts in a standard 19" rack without adaptors.
- Light Emitting Diodes (LED) power read-out. Provides faster response time than VU type meters.
- LED display and range switch for a potential dynamic range of 33 dB (100 milliwatts to 200 watts @ 8 ohms).
- 16 one-bit analog/digital converters signal the LEDs accurately on or off. The diodes are never half-lighted.

A new control by-pass switch routes the signal directly to the audio boards, for those who do not wish to use the input level controls, high and low filters, and Dynaguard™ circuitry. A few "golden ear" friends tell us they can hear an improvement in the sound when these circuits are by-passed. Although we sus-

pect the difference is a slight change in sensitivity level (0.4 dB), with this switch you may be your own judge.

Doubling of the output transistors measures the same in the laboratory on a purely resistive 8 ohm load, but in the real world of loudspeakers the sound is smoother and better defined. But where those double outputs really pay off are in the bass and when driving a difficult, low impedance load—especially at high levels. They give the Stereo 416 the capability to drive almost any speaker system currently available.

All the characteristics and functions which have made the Stereo 400 so extraordinary are included in the Stereo 416.

- Class AB amplifier with high current capacity bi-polar output.
- Drive and output circuitry full complementary symmetry.
- Entire main amplifier direct coupled.
- Circuit techniques and bias design, which thermally tracks the driver and output stages, eliminate any crossover notch. Results in complete freedom from listening fatigue.
- Overdesigned power transformer.
- In excess of 1000 square inches of radiating area for the mammoth heat sink.
- Relay-operated DC protection to eliminate turn-on thump and unwanted DC signals at the output.
- Exclusive patented Dynaguard™ power limit circuit protects the load.

- Speaker fuses conveniently mounted on the front panel.
- AC line circuit breaker, rather than a fuse.
- Electronic volt-amp limiting below 1½ ohms ensures safe operation of the output transistors.
- 4 separate power supply fuses.
- Input filters to control bandwidth.
- Level controls to reduce input sensitivity.

The C-100 Energy Storage System is frankly for the consummate audiophile. This supplemental power supply adds 100,000 microfarads of energy storage for those perfectionists who distinguish the subtleties of high fidelity listening that defy conventional specifications. A single C-100 quick-connected to the Stereo 416 improves detail and transparency at all frequencies and at every volume setting. And, for mind-boggling supply capability, C-100s may be stacked in multiples!

If you know sound, there is really only one choice:

Stereo 416 + C-100 = Double Dyna



The PAT-5 BI-FET and Stereo 416 are available in factory assembled or money-saving kit form. The C-100 is sold assembled only.

BI-FET is a trade mark of National Semiconductor.

