

JL2 TRIODE STEREO AMPLIFIER

Philosophy is the most important aspect of any design. CAT's philosophy is to design our products to neither ass to, not detract from, the music. We never attempt to cover up a design problem with another problem, not do we try to introduce a supposedly complementary problem to "synergise" with it. Two wrongs do not make a right. Only the eradication of the problem is correct.

The JL2 has been under development for over four years. We used a variety of loudspeakers during this refinement process including some which are well known for their ultra revealing nature and their difficulty to drive. The resulting amplifier is astounding in its robust dynamics and effortless power, actually sounding bigger and more powerful than amps with higher power ratings. Yet it possesses a pure, natural character and clarity that surpasses the most refined amplifiers.

The innovative design of the power supply, audio circuitry chassis construction and output transformer combine to produce an amplifier that will force you to reevaluate your reference standards.

POWER SUPPLY

- The power transformer is encased in separate nickel plated steel housing to contain its magnetic field.
- The isolation transformer eliminates entry of AC power line noise into the amp, yielding greater benefits than add-on conditioners without any of their sonic drawbacks or expense.
- Slow Filament Power-Up extends tube life greatly.
- The Quadruple Cascaded Audio Power Supply uses time compensated zero feedback mosfets and vacuum tubes to deliver unequalled dynamic contrast, transparency and sound stage realism

CIRCUITRY

- Pure Triode audio circuitry produces tonally natural music by eliminating the partition noise inherent in pentode designs and the resulting noise intermodulation ("grain").
- Low feedback (about 7dB) properly compensated design eliminates the tonal hardness of high feedback and/or improperly compensated designs while yielding more consistent sound quality.
- Ultra-wide open loop in-circuit bandwidth of the output transformer enables operation of the amp's closed loop response entirely within the open loop response, eliminating any requirement for the output stage to perform beyond its natural capability.
- Massive 55lb. output transformers allow gapping of the core for maximum linearity while still maintaining extremely low bass capability.
- Unprecedented stability into capacitive loads.

CHASSIS

- The heavy steel chassis is reinforced with several welded beams for tremendous strength and the elimination of low frequency vibration.
- Constrained dampening layer on top plate silences vibration before it can be converted to electro-mechanical noise.
- The output transformers are enclosed within its own magnetically isolated housing which is lined with Birch plywood (one of the most musical woods) and potted in place with a combination of epoxy and elastomers for mechanical stability and control.
- Mechanical isolation from floor vibration provided by high loss viscoelastic feet.

CONVENIENCE

- Mirror polished stainless steel maintains luster and brilliance with minimal care.
- Single 10 turn master bias control per channel assures utmost sonic capability with minimum effort (meter included with pair of amps).

SPECIFICATIONS:

Power 100 Watts into 8 ohms - class A
100 Watts into 4 ohms - class A

Frequency Response: 1 Hz to 65 KHz (+0, -3dB)

Gain: 30.6dB (8 ohms)

Sensitivity: 835 mV AC for full power (8 ohms)

Noise: 90 dB below full power

Power Bandwidth: 20 Hz to 30 kHz

Damping Factor: 10

Dimensions: 27" x 18.5" x 10.5" (L:W:H)

Weight: 180 lbs.

Convergent Audio Technology

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