

Great sound comes from paying attention to *every* detail

Soft start: Low inrush circuit limits start-up current. This prevents circuit breakers from tripping on start-up.

Hearing is believing: Play your favorite CD and hear details that have been hidden for years.

Drives all speakers superbly including exotic speakers with difficult crossovers, such as ribbons and electrostats. Frequency response flat to ten times above and below the limit of human hearing.

All audio resistors are precision 1%. This lowers noise, increases reliability, and ensures consistency between our amplifiers.

12 VDC Remote Turn-On from preamp or surround sound processor

Mogami wire used to connect PC board to the Cardas speaker connectors. The fine stranded, oxygen free copper provides a near invisible connection without color or

Cardas Speaker Connectors use oxygen free copper and provide a short signal path.

Heavy-duty 14 gauge power cord: A large power cord is necessary to achieve the maximum possible performance at the highest playing levels.

Custom shields designed to keep power supply noise out of key parts of the audio circuits.

32 storage capacitors where most designs just use two or four. We kept adding capacitors as long as we could hear the sound improve.

Undiminished bass from directly coupling the amp output to the speaker without capacitors. DC protection relays protect the speakers in case anything should ever happen to the amp.

Heavy common mode filter blocks noise from coming in through the power line.

Volume controls placed to rear of unit with long brass shafts to turn them. This keeps the noise from the power supply away from the critical audio sections.

Double insulated grounding Extra clearances and premium parts are used so a third wire ground is not needed. This eliminates the possibility of ground loops, making the background quieter and preventing hum.

Specially selected transistors and capacitors in key parts of the audio path to provide the most transparent sound.

Hum reduced to the high definition audio level of SACD. Signal to noise ratio is typically over 120dB below peak output. This is over 100 times quieter than the noise floor of a regular CD.

Faithful reproduction of loud bass notes requires high current. The Phoenix has a large enough power supply so the bass is never compromised. (Warning: Cone speakers lose their flexibility with age. The powerful bass may tear older speaker cones.)

Large external heatsinks and many internal heatsinks. This eliminates the need for a noisy fan and prolongs the life of components by keeping them cooler.

Four regulated power supplies for voltage gain circuits keep the sound stage from moving around.

Oversized transformer to reduce power supply fluctuations when playing loud. Extra shielding provided to reduce hum.

Every component has been listened to. Any manufacturer's component that degraded sound or added hum was rejected.

PC board layout optimized to reduce hum and noise. Special care was taken in running power and ground traces.

