

KC amps are designed to “...play music not drive nails”

The **KC OEM** not only delivers exceptional sound quality and clarity, the range has been designed to ensure your reputation is not only maintained but enhanced.

The use of quality parts is not a recipe for success on its own. The precise layout, orientation and even separation of parts are crucial. The **KC OEM** is a reference design in these areas - the result is a device that outperforms some rather expensive domestic audio let alone in-car products.

The Power Supply

An amplifier is only half the story - the other half is the power supply. In the **KC OEM** the power supply is a complete unit on its own.



Unlike the usual car audio market which has an approach to creating power rails; the **KC** uses a fully regulated setup with the most unique feature being its use of a transformer to generate the supply. The nature of the circuit that constitutes the supply is also unique in the car audio market - it can handle 90A current pulses at 50kHz. Whilst this speed is not uncommon, the size of the power management is. Compounding this with the ability to dynamically balance two halves of the switching array on every cycle (20 millionths of a second) the staggering potential of the supply begins to surface. The power supply is designed in such a way that the output is fixed irrespective of the vehicle moving at speed along the motorway (14.4V battery terminal) or sitting without the engine running in a frost (below 12V).

AMPLIFIER & POWER SUPPLY - KC1

Multi-channel Amplifier Specification

Balanced input - high end performance

Direct pure signal path control
Multiple ground planes and paths for clarity of sound
Signal ground lift/connect

Versatile system set-up

Variable high pass/low pass filters for front and/or rear (12dB/Oct)
Balanced input/loop through external graphic equaliser
May be used in 4/3/2/1 channel configuration
Modes: Independent/Bridge/Parallel-Bridge
Output signal options for multi-amp/active systems

Features

Power: 4x50WRMS
Input impedance: 10k Ω (balanced) 100k Ω (unbalanced)
Speaker protection: power on delay/stabilisation, anti-thump
General protection: inputs, over-temp, distortion, error, fail-safe
Servo controlled: DC coupled, precision instrument topology
KC originated "zero signal intrusion"

Independent Power Supply Specification

Dynamically balanced power rails
Low ESR capacitance bank
High performance high speed power transformer
Voltage regulation with feed back from amplifier

POWER AMPLIFIER - KC2

Amplifier Section Specification

Balanced input - high end performance

Direct pure signal path control
Multiple ground planes and paths for clarity of sound
Signal ground lift/connect

Versatile system set-up

Variable high pass/low pass filters (12dB/Oct)
May be used in 3/2/1 channel configuration
Modes: Independent/Bridge
Output signal options for multi-amp/active systems

Features

Power: 2x50WRMS
Input impedance: 10k Ω (balanced) 100k Ω (unbalanced)
Speaker protection: power on delay/stabilisation, anti-thump
General protection: inputs, over-temp, distortion, error, fail-safe
Servo controlled: DC coupled, precision instrument topology
KC originated "zero signal intrusion"

Power Supply Specification

Dynamically balanced power rails
Low ESR capacitance bank
High performance high speed power transformer
Voltage regulation with feed back from amplifier
Uses the same power supply as KC1



**Every journey
deserves perfection.
Let's keep it
that way...**