

■ AMPLIFIERS

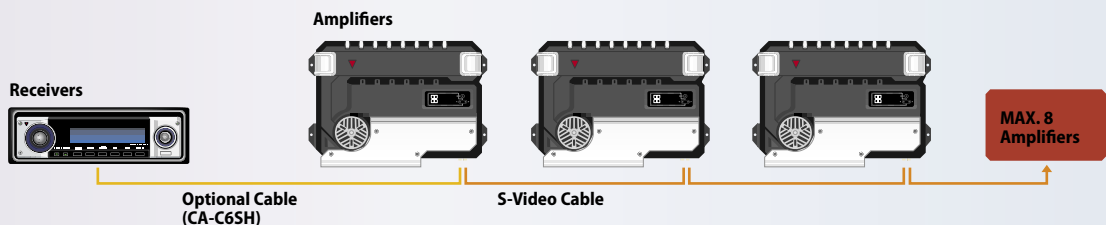
■ The power to perform

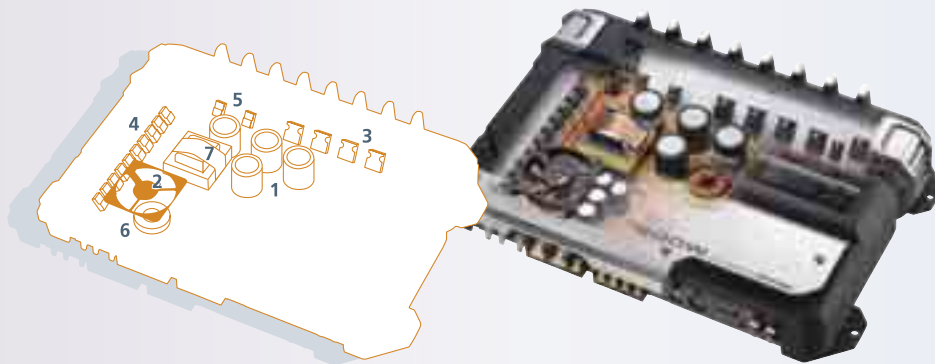
When you choose an amplifier, what do you look for? High power? Superior audio quality? Enhanced functionality? Control? Kenwood's 2006 lineup of amplifiers brings you all this in high-performance packages with simple attractive styling. Innovative, advanced engineering delivers superb sound on the road. And the Amp Control System not only gives you total control from the head unit, it also offers an easy upgrade path to a multi-amp system allowing you to include up to eight mono, two-channel or four-channel amplifiers in the system, all with independent control. And to allow installation in the widest range of vehicles, all models feature a more compact design to make Kenwood quality available to all.



■ PS Amplifiers

Kenwood's PS amplifier lineup is completely renewed to deliver high power with superior audio quality, enhanced functionality and greater ease of operation. Headlining the impressive list of features and specifications is the Amp Control System. This innovative feature not only enables control of EQ, it also allows you to display status information such as voltage, current and temperature on the head unit. What's more, you can add and control up to a total of eight amplifiers separately.



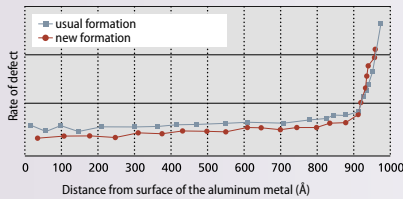


■ **1. Power supply smoothing capacitors**



To assure a stable supply of power even when there are large load changes under high output conditions or an increase in ripple current, the power supply incorporates a large-capacity aluminum electrolytic capacitor as a smoothing power filter. Although conventional capacitors of this type usually have a high leakage current and an associated negative effect on

audio quality, Kenwood has included a dielectric film featuring an enhanced oxidation mechanism to realize a 40% improvement in leakage current and enhanced sound quality.



■ **2. Computer-controlled fan**



High temperatures are the enemy of good audio performance, so cooling fans are fitted to maintain stable operation of the power drive stage and ensure a constant, stable power supply at high output. An extended operating life is further assured by computer control of fan operation to maintain an optimum and safe working temperature.

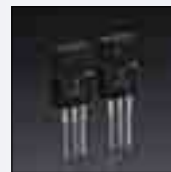
■ **3. Power MOSFET**



Power MOSFETs (Metal Oxide Semiconductor Field Effect Transistor) arranged in a 2-parallel push-pull configuration in the power amp stage deliver linear power output when driving speakers of high, low or even extremely low impedance. Even with two or four four-ohm speakers connected in parallel, stable power delivery into ultra-low impedance loads is

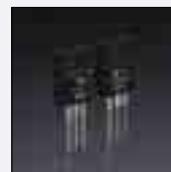
assured.

■ **4. MOSFET power supply**



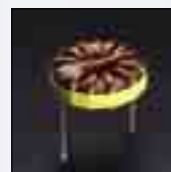
The oversized power supply features a specially-selected MOSFET at its heart to further maximize the conversion efficiency of the power supply by offering extremely low "on" resistance. The use of this MOSFET keeps operating losses to a minimum at the same time as achieving stable power supply and enhanced audio quality.

■ **5. Schottky barrier diode**



Incorporation of a Schottky barrier diode assures smoother and more efficient rectification of large currents. In comparison with conventional rectification diodes, this barrier diode improves both power supply efficiency and rectification smoothing performance _ improvements that are clearly audible in the superior audio quality.

■ **6. Toroidal coil**



The toroidal coil improves the efficiency, regulation and filtering capacity of the power supply to virtually eliminate the high-frequency noise common in digital amplifiers.

■ **7. Power supply transformer**



At the heart of the DC-DC convertor lies an EE-shape core transformer. To assure a stable supply of high power, the transformer features a large-size core and sheet copper windings instead of the conventional copper wire windings. Thanks to the adoption of this large-size transformer, superior sound quality is assured even under continuous high power loads.

KAC-PS811D



- AMP Control
- D CLASS
- 1 OHM CAPABILITY
- Power MOSFET
- B.R. FILTER
- INFRA. FILTER
- Variable L.P.F.
- LINE OUT
- Cooling Fan

KAC-PS811D

MAX POWER 1600w

High Performance Monaural Power Amplifier for Subwoofer

- D-class Amplifier Circuit
- 1ohm Load Capability
- Amp Control System
- Built in Parametric EQ Control (Bass Frequency/Gain Control/Bass Q Factor)
- Amp Information Display (Voltage/Current/Temperature/Cooling Fan Speed)
- Built-in Variable Low-pass Filter 50-200Hz (24dB/oct)
- Built-in Infrasonic Filter 15Hz/25Hz (24dB/oct)
- Phase Inverter (0°/-180°)
- Band Reject Filter Frequency 6dB/12dB (40-200Hz Variable)
- Power MOSFET
- Cooling Fan (Computer Controlled)
- Detachable Aluminum Dress Plate & Top Panel Control
- Gold Plated RCA Line Input/Output Terminals
- Power Supply Fuse : 25A x 3



- AMP Control
- 2 OHM CAPABILITY
- INFRA. FILTER
- Variable L.P.F.
- Variable H.P.F.
- BRIDGED
- LINE OUT
- Cooling Fan

KAC-PS541

MAX POWER 960w

High Performance 4-channel Power Amplifier

- Amp Control System
- Built in Parametric EQ Control (Bass & Treble Frequency/Gain Control/Bass Q Factor)
- Amp Information Display (Voltage/Current/Temperature/Cooling Fan Speed)
- Built-in Variable Low-pass Filter 50-200Hz (24dB/oct) : B Channel
- Built-in Variable High-pass Filter 50-200Hz (12dB/oct) : A/B Channel
- Built-in Infrasonic Filter 15Hz (24dB/oct) : B Channel
- Cooling Fan (Computer Controlled)
- Detachable Aluminum Dress Plate & Top Panel Control
- Gold Plated RCA Line Input/Output Terminals
- Power Supply Fuse : 30A x 2

KAC-PS541

KAC-PS621



KAC-PS621

MAX POWER 1200w

High Performance 2-channel Power Amplifier

- Amp Control System
- Built in Parametric EQ Control(Bass & Treble Frequency/Gain Control/Bass Q Factor)
- Amp Information Display (Voltage/Current/Temperature/Cooling Fan Speed)
- Built-in Variable Low-pass Filter 50-200Hz (24dB/oct)
- Built-in Variable High-pass Filter 50-200Hz (12dB/oct)
- Built-in Infrasonic Filter 15Hz (24dB/oct)
- Cooling Fan (Computer Controlled)
- Detachable Aluminum Dress Plate & Top Panel Control
- Gold Plated RCA Line Input/Output Terminals
- Power Supply Fuse : 25A x 3

AMP Control

2 OHM CAPABILITY

INFRA.FILTER

Variable L.P.F.

Variable H.P.F.

BRIDGED

LINE OUT

Cooling Fan



KAC-PS521

MAX POWER 1000w

High Performance 2-channel Power Amplifier

- Amp Control System
- Built in Parametric EQ Control(Bass & Treble Frequency/Gain Control/Bass Q Factor)
- Amp Information Display (Voltage/Current/Temperature/Cooling Fan Speed)
- Built-in Variable Low-pass Filter 50-200Hz (24dB/oct)
- Built-in Variable High-pass Filter 50-200Hz (12dB/oct)
- Built-in Infrasonic Filter 15Hz (24dB/oct)
- Cooling Fan (Computer Controlled)
- Detachable Aluminum Dress Plate & Top Panel Control
- Gold Plated RCA Line Input/Output Terminals
- Power Supply Fuse : 30A x 3

AMP Control

2 OHM CAPABILITY

INFRA.FILTER

Variable L.P.F.

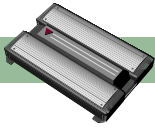
Variable H.P.F.

BRIDGED

LINE OUT

Cooling Fan

KAC-PS521



AMPLIFIERS



KAC-9152D

MAX POWER 1800w

High Quality Monaural Power Amplifier for Subwoofer

- D-class Amplifier Circuit
- 1ohm Load Capability
- Dual Mono Drive (Two Amp Bridged Connection, 2-4ohms)
- Single-side Exposure of Terminals for Multi-Installation
- Detachable Aluminum Dress Plate & Top Panel Control
- Wired Variable Bass Boost Remote (Off - 18dB, 40-100Hz)
- Built-in Variable Low-pass Filter 50-200Hz (24dB/oct)
- Built-in Infrasonic Filter 15Hz/25Hz (18dB/oct)
- Speaker Level Input
- Gold Plated RCA Line Input/Output Terminals
- Power MOSFET
- Power Supply Fuse : 30A x 2

- D CLASS
- Dual Mono Drive
- 1 OHM CAPABILITY
- Power MOSFET
- INFRA.FILTER
- Variable L.P.F.
- SP LEVEL INPUT
- LINE OUT
- Wired Bass Remote



KAC-7252

MAX POWER 1000w

High Quality 2-channel Power Amplifier

- Cooling Fan
- Single-side Exposure of Terminals for Multi-Installation
- Detachable Aluminum Dress Plate & Top Panel Control
- Wired Variable Bass Boost Remote (Off - 18dB, 40-100Hz)
- Built-in Variable Low-pass Filter 50-200Hz (24dB/oct)
- Built-in Variable High-pass Filter 50-200Hz (12dB/oct)
- Speaker Level Input
- Gold Plated RCA Line Input/Output Terminals
- Power MOSFET Switching Power Supply
- Power Supply Fuse : 40A

- 2 OHM CAPABILITY
- Variable L.P.F.
- Variable H.P.F.
- BRIDGED
- SP LEVEL INPUT
- LINE OUT
- Cooling Fan
- Wired Bass Remote

Regular series amplifiers

Mid-range amplifiers in the regular series offer a quality feel thanks to clean simple styling and an aluminium top plate. Controls are thoughtfully laid out and connection terminals are located on a side panel for more flexibility in installation. Careful selection of high-quality components and painstaking design assures superior sound quality. Basic models also feature advanced design and high power output.



Wired bass-boost remote control

Models KAC-9152D/8152D/7252 are equipped with a wired bass-boost remote control offering a variable bass boost knob for up to 18dB of boost, and a frequency selector knob with a range from 40Hz to 100Hz. Together, these controls offer precise bass control allowing you to tailor it to suit your vehicle's sonic characteristics.





MAX POWER 800w

KAC-8452

High Quality 4-channel Power Amplifier

- 2 OHM CAPABILITY
- Variable L.P.F.
- Variable H.P.F.
- BRIDGED
- SP LEVEL INPUT
- LINE OUT

- Single-side Exposure of Terminals for Multi-Installation
- Detachable Aluminum Dress Plate & Top Panel Control
- Built-in Variable Low-pass Filter 50-200Hz (18dB/oct) : B Channel
- Built-in Variable High-pass Filter 50-200Hz (12dB/oct) : A and B channel
- Bass Boost (Off/ +6dB at 90Hz) : B Channel
- Speaker Level Input
- Gold Plated RCA Line Input/Output Terminals
- Power MOSFET Switching Power Supply
- Power Supply Fuse : 40A



MAX POWER 1100w

KAC-8152D

High Quality Monaural Power Amplifier for Subwoofer

- D CLASS
- 2 OHM CAPABILITY
- Power MOSFET
- INFRA.FILTER
- Variable L.P.F.
- SP LEVEL INPUT
- LINE OUT
- Wired Bass Remote

- D-class Amplifier Circuit
- Single-side Exposure of Terminals for Multi-Installation
- Detachable Aluminum Dress Plate & Top Panel Control
- Wired Variable Bass Boost Remote (Off - 18dB, 40-100Hz)
- Built-in Variable Low-pass Filter 50-200Hz (24dB/oct)
- Built-in Infrasonic Filter 15Hz/25Hz (18dB/oct)
- Speaker Level Input
- Gold Plated RCA Line Input/Output Terminals
- Power MOSFET
- Power Supply Fuse : 40A



MAX POWER 500w

KAC-6403

High Quality 4-channel Power Amplifier

- 2 OHM CAPABILITY
- L.P.F.
- H.P.F.
- BRIDGED
- SP LEVEL INPUT

- Aluminum Die-casting Heat Sink
- Built-in Low-pass Filter 80Hz (-12dB/oct) : B channel (L+R)
- Built-in High-pass Filter 80Hz (-12dB/oct) : A channel
- Speaker Level Input
- Power MOSFET Switching Power Supply
- Power Supply Fuse : 25A



MAX POWER 600w

KAC-6203

High Quality 2-channel Power Amplifier

- 2 OHM CAPABILITY
- L.P.F.
- BRIDGED
- SP LEVEL INPUT

- Aluminum Die-casting Heat Sink
- Built-in Low-pass Filter 80Hz (-12dB/oct) : (L+R)
- Speaker Level Input
- Power MOSFET Switching Power Supply
- Power Supply Fuse : 40A

■ Ultra-high-power, 1-ohm impedance drive subwoofer amplifier

With more than one subwoofer connected in parallel, drive current must be high enough to match the number of connected speakers. For example, with four subwoofers connected, drive current should be four times that used with a single subwoofer. But if the subwoofer used is not rated for 1-ohm operation such a high current would usually cause the protection circuit to cut in and stop the sound. However, multiple subwoofers are still necessary to achieve high volume: two subwoofers offer 3dB more, or double the volume of a single subwoofer while four subwoofers provide 6dB more or four times the volume. Traditional subwoofer amplifiers limit the number of speakers connected because amp power drops as more speakers are connected in series. So to achieve both high power and high audio quality, the amplifier must be capable of supplying the power required by multiple subwoofers. The high-power 1-ohm impedance drive amplifier meets this demand and allows the use of four parallel-connected subwoofers for high-volume, high-quality bass reproduction.

