



PRS — PIONEER REFERENCE SERIES

TUNE INTO SOUND PERFECTION

Immerse yourself in the luxury of crystal-clear sound with PRS — the Pioneer Reference Series. When it comes to high-end sonic expertise and experience, no other audio maker comes close. PRS has set the standard for Europe's top professional sound competitors — it's the winning team. Every component — the headunit, equaliser, amplifiers and speakers — has been uniquely styled and created, using only the very best hi-fi parts, to offer pure and beautiful sound. Combined as a system, you'll get the most exhilarating sonic experience of your life. Thunderous lows are delicately balanced with crisp and clean highs. Sound simply does not get better than this.





DEX-P9R COMPONENT CD RDS TUNER



The DEX-P9R ultra-high-quality component tuner transfers digital data directly from the CD to the audio processors, so you get as close as possible to the original sound — with absolute minimum distortion. When optically paired with the DEQ-P9 digital preamp/equaliser, it forms a system with unrivalled audio, DSP and network functions. Go for an unparalleled listening experience and use pure sound-proven PRS series amps and speakers.



DEQ-P9 DIGITAL PREAMP/EQUALISER



Add this DSP unit to the DEX-P9R and enjoy the versatility, sonic purity and distortion-free control of digital signal processing and network functions. Incoming signals are converted to digital, enabling you to balance the output signal to match your car's acoustics and to create your personal sound profile by using the parametric equaliser and Sound Field Control functions.

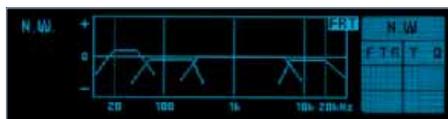
FULL DIGITAL SYSTEM

Pioneer's pure audio system — DEX-P9R component tuner and DEQ-P9 digital preamp/equaliser — redefines sonic excellence. Pioneer hi-bit technology converts the original 16-bit CD audio signal to 24 bits, which improves signal linearity and maintains pure audio quality during digital processing. The DEX-P9R has an optical digital input for connecting the XDV-P9-II multi-DVD player, and optical digital outputs for connecting to the DEQ-P9 off-board digital network. This network features 3 ultra-precise 51-bit Digital Signal Processors to implement the 31-band graphic equalisation with independent Left/Right control, Time Alignment and the 4-way digital network.

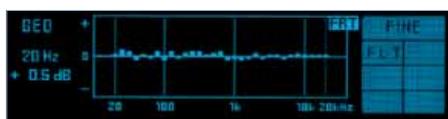
Both units are loaded with Burr-Brown 24-bit multi-bit DACs — the best of the best! Each of the DEX-P9R's audio outputs features L/R independent DACs, and the DEQ-P9 outputs are outfitted with L/R independent DACs for each high, mid and low mode. The DACs are arranged in Sign-Magnitude conversion mode. This eliminates zero cross distortion, and offers an astounding S/N ratio and an ultra-wide dynamic range. Paired with 8 times digital oversampling, the final result is unmatched sonic clarity.



24-bit multi-bit D/A converters



Crossover Network Adjustment



Graphic Equaliser

Audiophiles will also appreciate the details, such as the aluminium front panel, elegant blue OEL display, gold-plated RCA terminals and 99.99% pure Oxygen-Free Copper RCA cables. Noise-reducing features like a copper-plated chassis and Display Off mode make these products the acoustic perfectionist's dream.



Copper-plated chassis Display Off Mode

Pioneer's PRS amps are designed to drive speakers beyond the limit — with more powerful, distortion-free sound than ever before. In addition, a 4-channel crossover (PRS-X340) gives you several power options, while a high/low switch lets you choose between 3 – 9 kHz or 40 – 120 Hz. The bandpass filter makes bi-amplifying a breeze. So, if you want truly awesome power, go for PRS series amps.

PRS-X340 4-CHANNEL BRIDGEABLE POWER AMPLIFIER

4 x 150 W (2 x 500 W) Max.



PRS-X320 2-CHANNEL BRIDGEABLE POWER AMPLIFIER

2 x 200 W (1 x 800 W) Max.

PRS-X220* 2-CHANNEL BRIDGEABLE POWER AMPLIFIER

2 x 120 W (1 x 400 W) Max.

* Not available in the UK.

MOUNT PRS SERIES AMPS TOGETHER

Mount two PRS series amplifiers together to create one massive amplifier. The mounting feet on the interior side can be removed or rotated inward to allow the amplifiers to mount flush against each other.



MOSFET DEVICES FOR OPTIMUM PERFORMANCE

Pioneer MOSFET output devices offer significant advantages over traditional bipolar devices such as faster switching results, less crossover distortion and less noise. High power used to mean high heat and resistance that could lead to noise, but the PWM Regulated MOSFET power supply unit keeps its cool even under pounding pressure. With these MOSFET devices, PRS amps deliver more power than ever!

INTELLIGENT POWER SYSTEM

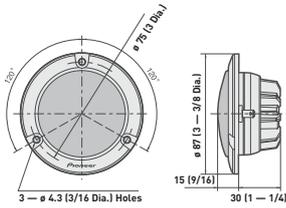
A car's normal power supply restricts output power to 50 W through a 4 ohm load. For more power, PRS amps use a PWM Regulated MOSFET power supply unit to boost the car's line voltage, while Pioneer's Intelligent Power System controls the power supply. This means you get peak power output without noise; current to the speakers is increased when other electric loads in the car cause the voltage to drop. You can now have the power you crave.

TS-T3PRS

1-1/4" (30 mm) FLUSH MOUNT SOFT DOME TWEETER

200 W Max.

With an extended low-frequency response, this tweeter improves the overall imaging of your audio system. A large-sized Soft Dome diaphragm ensures higher sound imaging without harshness and an ultra-strong Neodymium magnet makes transient response faster and more precise. The carefully tuned Sealed Performance Chamber extends the crossover frequency.

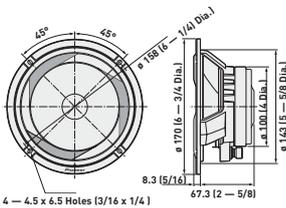


TS-M7PRS

6-3/4" (17 cm) MID-BASS DRIVER

200 W Max.

DuPont™ **KEVLAR®** This Mid-Bass Driver was designed to reproduce real strings and vocals with less distortion. Thanks to the KEVLAR® brand Fibre Composite Cone and the Butyl Rubber Symmetrical Balanced Surround, you can expect smooth, accurate sound from mid-bass to upper midrange frequencies.

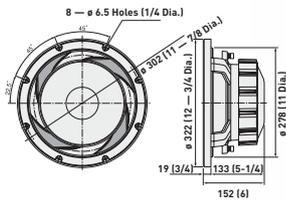


TS-W12PRS

12" (30 cm) DUAL VOICE COIL C-TYPE SUBWOOFER

1200 W Max.

VCCS™ DuPont™ **KEVLAR®** This powerful subwoofer is equipped with a Voice Coil Cooling System (VCCS) and a giant magnetic circuit that keep the subwoofer cool, so that the sound stays natural. There's also a dual-layer long voice coil (2 x 4 ohm) which, combined with the extremely light KEVLAR® brand Fibre Composite Cone, results in a very strong moving force.

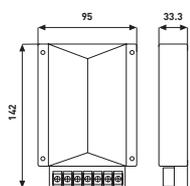


UD-N2PRS

2-WAY PASSIVE CROSSOVER NETWORK

200 W Max.

Pioneer has designed a 2-way, passive crossover network especially for use with the TS-T3PRS and TS-M7PRS. With its discriminating EMI (Electromagnetic Interference) shielding chassis, this network provides simple, clear and precise sound solutions.

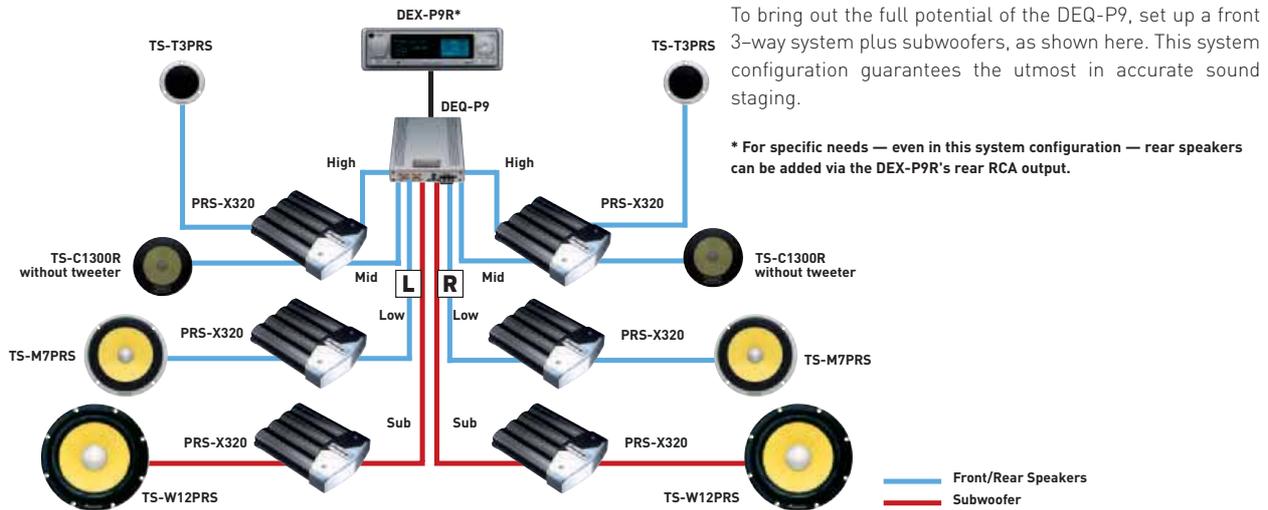


For full features and specifications, please see page 99.

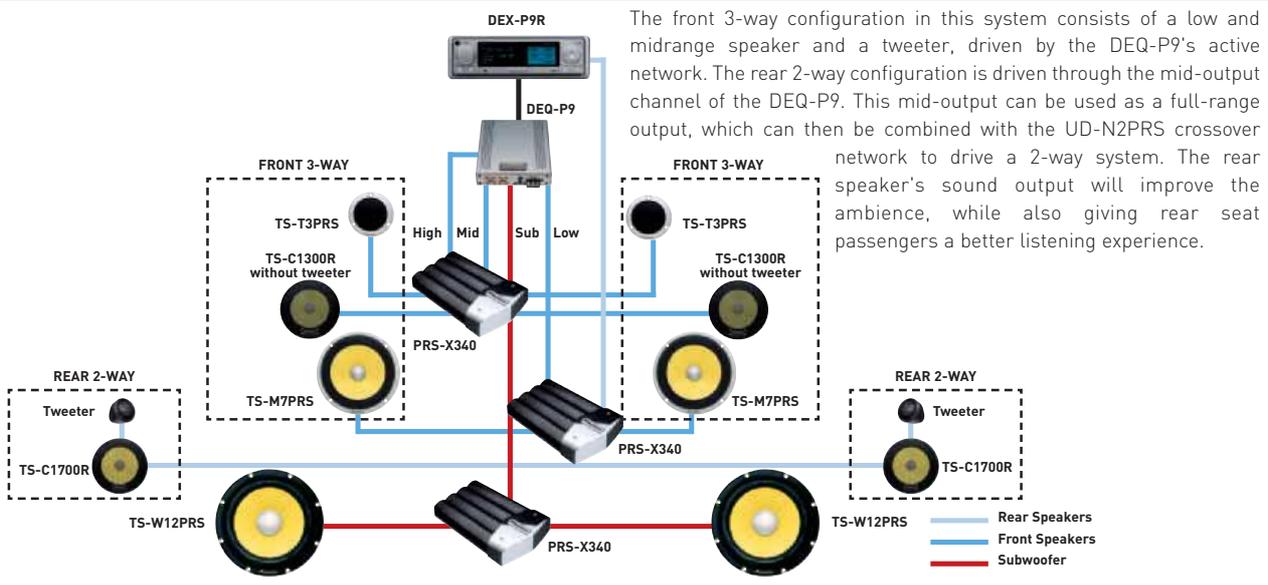
PRS — RECOMMENDED SYSTEM SET-UPS

To get the most from the DEX-P9R, Pioneer strongly recommends using it in combination with the DEQ-P9 and the PRS amps and speakers, to create a variety of system set-ups that suit your sound preference and in-car audio characteristics. In both the configurations shown below, the external amplifiers are driven by the DEQ-P9's Hi-Volt outputs. These very high-quality outputs use their own balanced plus/minus PWM power supply to minimise noise and distortion. Create the ultimate system by using the DEQ-P9 in its 4-way (low, mid, high, subwoofer) configuration for optimum performance. Each band has its dedicated speaker, while the Crossover Network and Time Alignment feature allow for each band to be precisely tuned. Result: perfectly balanced acoustics. If you prefer to work with a 2-way plus subwoofer system, the resulting extra channel won't go to waste. It can be used to drive a full-range rear fill speaker and will enhance the rear seat acoustics.

FRONT 3-WAY PLUS 2 SUBWOOFERS SYSTEM — COMPLETE L/R MIRROR LAYOUT



FRONT 3-WAY/REAR 2-WAY/2 SUBWOOFERS SYSTEM



EUROPEAN REFERENCE SEPARATE COMPONENT SPEAKER SERIES

These super high-quality speaker systems contain precision-engineered woofers, tweeters and crossovers, all designed to bring you to new levels of sound perfection. The Soft Dome tweeter reproduces accurate high notes while the Passive Crossover Network guarantees an optimal distribution of low and high frequencies from the amplifier to the woofers and tweeters. A guaranteed unforgettable listening experience!

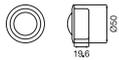
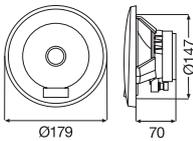
TS-C1700R

17 CM SEPARATE 2-WAY SPEAKER SYSTEM

220 W Max.

VCCS[™]
VOICE COIL COOLING SYSTEM

DuPont[™]
KEVLAR[®]



- 17 cm Ø KEVLAR[®] brand Fibre composite cone woofer with butyl rubber edge
- 25 mm Ø Soft Dome tweeter with neodymium magnet
- VCCS (Voice Coil Cooling System)
- Aluminium die-cast woofer basket
- Gold-plated binding post-screw woofer terminals
- Tweeter fitting kit included: Surface mount slant spacer/Custom tweeter bracket for Renault, Peugeot and Citroën
- Passive Crossover Network with tweeter level control (0 dB, -3 dB)
- Nominal input power: 70 W
- 25 – 32,000 Hz, 90 dB (1 W/1 m)

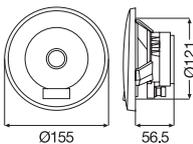
TS-C1300R

13 CM SEPARATE 2-WAY SPEAKER SYSTEM

160 W Max.

VCCS[™]
VOICE COIL COOLING SYSTEM

DuPont[™]
KEVLAR[®]



- 13 cm Ø KEVLAR[®] brand Fibre composite cone woofer with butyl rubber edge
- 25 mm Ø Soft Dome tweeter with neodymium magnet
- VCCS (Voice Coil Cooling System)
- Aluminium die-cast woofer basket
- Gold-plated binding post-screw woofer terminals
- Tweeter fitting kit included: Surface mount slant spacer/Custom tweeter bracket for Renault
- Passive Crossover Network with tweeter level control (0 dB, -3 dB)
- Nominal input power: 40 W
- 35 – 32,000 Hz, 90 dB (1 W/1 m)

KEVLAR[®] BRAND FIBRE COMPOSITE CONE

The woofer of the TS-W12PRS, TS-M7PRS, TS-C1700R and TS-C1300R was meticulously designed to reproduce real strings and vocals with less distortion. Thanks to the KEVLAR[®] brand Fibre composite cone, you can expect accurate, smooth sound from mid-bass to upper midrange frequencies.



PIONEER'S 2004 DEMO CARS

Check out five of the finest show cars around — shown below — loaded with top-of-the-line Pioneer products. They'll bedazzle you with their impressive, vamped-up interiors and imaginative integration of Pioneer products.

DENNIS VAN DIJK'S PORSCHE CAYENNE



This stunning jet-black car with leather interior is complemented by three ingeniously installed AVX-P7300 colour displays: one slides out of the dashboard, while two emerge from the back of the front seats.

High-performance PRS amps — PRS-X340, PRS-X720 and PRS-X220 — drive the speakers, sub and centre speaker respectively. This spectacular set-up, including a hide-away GEX-P700DAB tuner, is easily controlled using the 7-inch touch panel display of the AVH-P7500DVD multi-channel DVD headunit, which is connected to the AVIC-800DVD navigation unit for additional functionality.

This car can be admired at tuning events all across Europe.



MINI ONE'S

Inspired by Pioneer's corporate theme — sound.vision.soul —, three Mini demo cars were created in the UK. "Sound" is all about superior sound quality. Top Pioneer speakers [TS-C1700R and TS-C1300R] and first-class amps [PRS-X340] are complemented by the subtle bass of two TS-W12PRS subs, for an awe-inspiring audio experience. The stylish DEH-P8600MP headunit and the AVIC-600T navigation package complete the experience.

"Vision" turns the Mini One into a Mini-cinema. The AVH-P7500DVD allows the driver to enjoy movies and music on the move with full surround sound. Five AVD-W6200 screens, extra speakers and amps ensure that there will never be a shortage of things to watch.

"Soul" is big on volume, bass and looks. Four powerful PRS-X340 amplifiers are needed to run the TS-W5000SPL sub in the boot and the doors have been remodelled to hold the TS-A2010 speakers. Exclusive wheels and styling finish the package perfectly.



TOYOTA RAV4



This democar not only looks spectacular and sounds fabulous, it also includes full navigation capability. The futuristic creation includes two TS-W12PRS subs, cleverly installed in the boot behind lighted Plexiglas — finished with Pioneer and Toyota logos. The back door showcases an AVD-W8000 display, a TS-C1300R speaker set and high-quality PRS amps. Superb navigation functionality and entertainment are ensured by the AVH-P7500DVD Multi-Channel DVD AV Headunit and AVIC-900DVD DVD Navigation/AV Unit. The car also includes two AVD-W6200 rear displays and the XDV-P9-II Multi-DVD player to enjoy movies, and a practical back-up camera.



PIONEER SOUND TUNING



Professionals on the international tuning scene count on the high-quality standard of Pioneer products to win. That's why Pioneer gear consistently appears in award-winning cars in the Sound Quality and SPL (Sound Pressure Level) competitions. Since 2003, Pioneer is also proud to be an official sponsor of EMMA (European Mobile Media Association).



AMPLIFIERS AND SUBWOOFERS



SET SOME RECORDS OF YOUR OWN

Huge sound from a slim package, what a treat! New class-D amps are as compact and efficient as they are stylish, and they still give out the purest and cleanest power around. The new GM series amplifiers are power toppers as well. They pump out intense power to subs and speakers and they stand the test of time. Add that to world-class SPL subwoofers — they work together with Pioneer amps as the perfect team — and you've got solid bass performance. The groundbreaking SPL subs are dominating today's global tuning scene and have already set the world record in their class. Does sound get any better? Pioneer's amps and subwoofers are both slim and smart. In fact, they're at the top of their class.

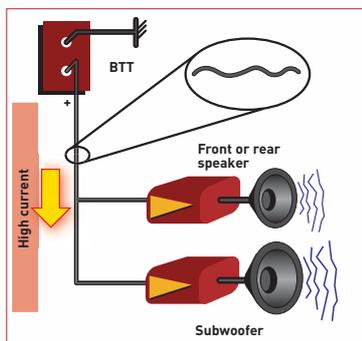
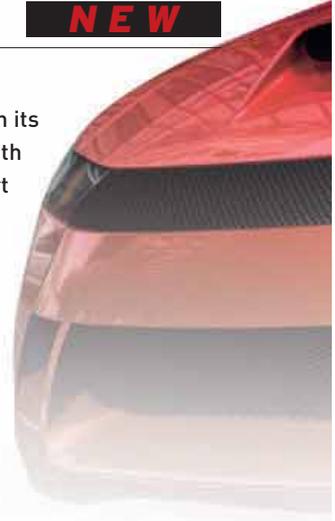
GM-D510M

CLASS-D AMPLIFIER

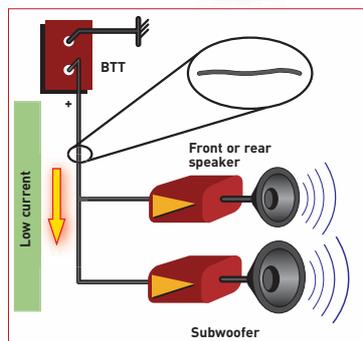
NEW

1 x 1000 W (2 Ω) 1 x 600 W (4 Ω) Max.

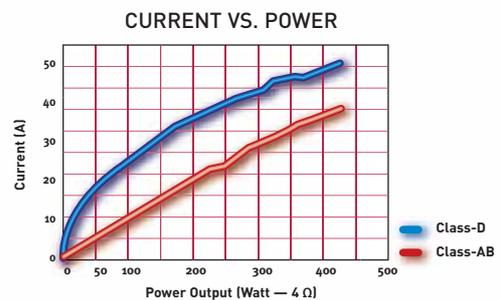
Pure intensity — 1000 W of maximum output power — charges out of this Pioneer Class-D amplifier. With its powerful yet compact design and steady voltage, this amplifier fuels your subwoofers and speakers with clean, distortion-free sound. Class-D amps require less electrical current, so there's less heat to distort the system. Digital processing also ensures constant crisp sound. Listen and believe!



The high amplifier power required to drive a subwoofer causes unstable current and voltage, which not only goes to the subwoofer but also to the front and rear speakers. As a result, the sound quality is affected and distorted.

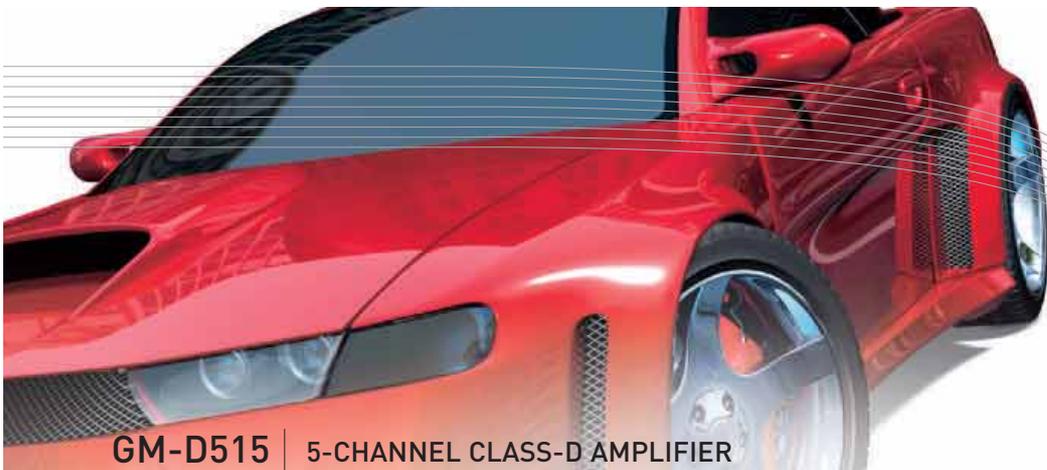


A Class-D amplifier needs only 2/3 of the current of a conventional amplifier, so the power supply to both subwoofer and front and rear speakers is more stable. As a result, the sound quality will not be affected, so you can enjoy a very clean sound output without distortion.



CLASS-D AMPLIFIERS

Class-D amplifiers are very efficient compared to traditional Class-A or AB amplifiers. Very little power is transformed into heat while a very high percentage of the power supply (67 %) is transferred into the load. So little input power is needed to produce high output power.



GM-D515 | 5-CHANNEL CLASS-D AMPLIFIER

NEW

4 x 100 W (4 Ω) + 1 x 300 W (4 Ω) or 1 x 600 W (2 Ω) Max.

This 5-channel Class-D amplifier sets new standards of excellence with superior distortion-free sound, first-class power and a slim compact package. With 5 channels — 4 analogue and 1 class-D mono — and Low Pass and High Pass Filters, you are able to directly connect 4 speakers and a subwoofer. Efficient Class-D technology needs less distortion-causing input power, so your senses are filled with clear yet extremely powerful sonic pleasure.

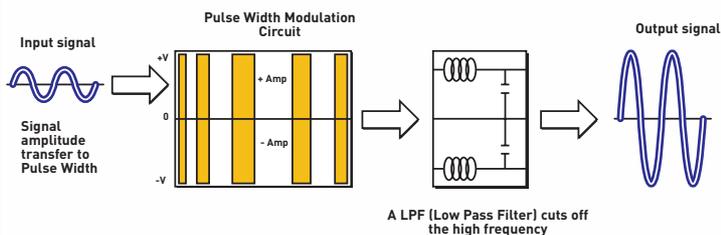


PULSE WIDTH MODULATOR

The Class-D amplifier's PWM (Pulse Width Modulator) modulates the original audio input signal to create a digital signal which contains the input signal and a band of frequency components around the modulation frequency. A LPF (Low Pass Filter) will then filter out the 350 kHz frequency pulses and the resulting amplified output signal is then sent to the subwoofer and/or speakers.

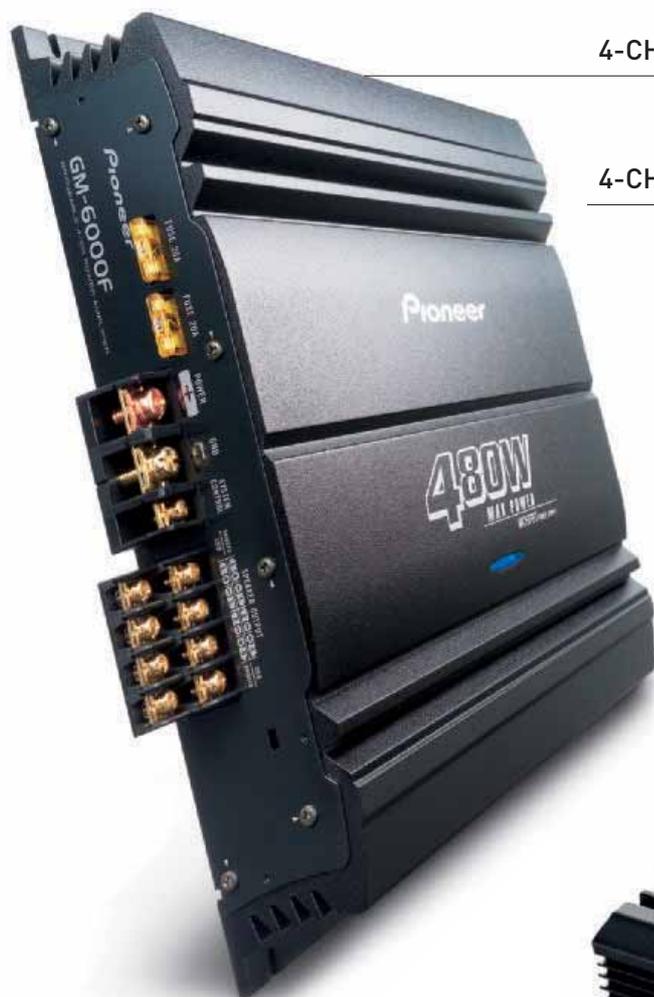
The power output FET acts like an on/off switch; when 'on', the FET closes so no voltage runs through its terminals and no wasted power is transformed into heat. Therefore, the heat sink can be smaller and the amp design very compact. A stable load can be pumped into your subs and speakers to create a maximum of undistorted, clear sound.

PULSE WIDTH MODULATOR METHOD



BRIDGEABLE AMPLIFIERS

Ignite your system with the high pulsating power of Pioneer's latest bridgeable amplifiers. They are able to drive 4 or 2 separate speaker channels as well as multiple subwoofer leads with ease. You can be sure of distortion-free sound, high-frequency range performance and improved heat dissipation resulting from Pioneer's unique design.



4-CHANNEL BRIDGEABLE AMPLIFIER

GM-6000F

4 x 100 W (2 x 240 W) Max.

NEW

4-CHANNEL BRIDGEABLE AMPLIFIER

GM-4000F

4 x 70 W (2 x 150 W) Max.

NEW



GM-5000T

2-CHANNEL BRIDGEABLE AMPLIFIER

NEW

2 x 250 W (1 x 760 W) Max.

GM-3000T

2-CHANNEL BRIDGEABLE AMPLIFIER

NEW

2 x 80 W (1 x 200 W) Max.

MOSFET POWER SUPPLY AND MOSFET OUTPUT SECTION

Pioneer's bridgeable amplifiers are better than ever at delivering high-quality power, thanks to Pioneer's MOSFET devices! The MOSFET power supply offers numerous advantages over conventional bipolar output devices, assuring peak power output without noise or distortion.

The high-performance MOSFET output section enhances the amp's high-frequency range performance and linear response to signals. So now you can drive your amp even harder, without compromising on sound quality.

ACTIVE CROSSOVER NETWORKS

Positioned between sound sources and amplifiers, Pioneer Crossover Networks are designed to give extremely precise, clear sound reproduction. There's a choice of models, each offering accurate adjustment of frequency crossover points to match the characteristics of subwoofers, midrange speakers and tweeters.

CD-635 | 3-WAY ELECTRONIC CROSSOVER NETWORK

- Variable crossover frequency (Mid and Low: 50 Hz – 200 Hz or 500 Hz – 2 kHz, High and Mid 3 kHz – 10 kHz) • Cut-off slope: -12 dB/Oct (all ranges) • Subwoofer and High Range Phase Switches
- Subwoofer output Mode Switch (Stereo/Mono) • Level Controller • Gold-plated RCA input/output terminals



CD-625 | 2-WAY ELECTRONIC CROSSOVER NETWORK

- LPF and HPF (50 – 200 Hz) • Cut-off slope: -12 dB/Oct • Variable crossover frequency (50 Hz – 200 Hz continuously variable) • Subwoofer phase switch • Variable Level Controller for subwoofer (between -15 and +15 dB)
- Subwoofer output mode switch (stereo/mono) • Gold-plated RCA input/output terminals



CD-615 | 2-WAY ELECTRONIC CROSSOVER NETWORK

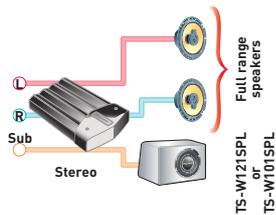
- LPF and HPF • Cut-off frequency (HPF: 80 Hz or flat; LPF: 80 Hz) • Cut-off slope: -12 dB/Oct • Subwoofer output • RCA input and output terminals • In-line Noise Filter (Signal Ground Isolator)



AMPLIFIER-SUBWOOFER CONFIGURATION EXAMPLES

Below are a few examples of how to build an in-car sound system with an amplifier and subwoofer combination. These configurations match the capability of each subwoofer and amplifier, to maximise the potential of the system.

PRS-X340



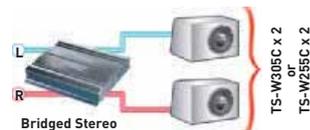
PRS-X320



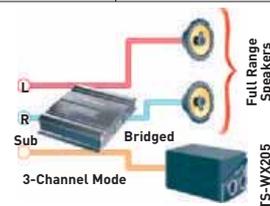
PRS-X220



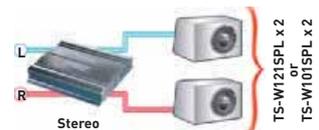
GM-6000F



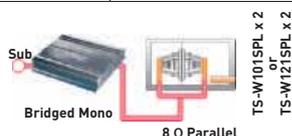
GM-4000F



GM-5000T



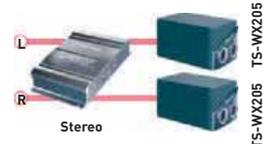
GM-5000T



GM-3000T



GM-3000T



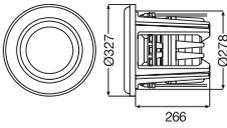
SPL SUBWOOFERS

TS-W5000SPL

COMPETITION CLASS SPL SUBWOOFER FOR PROFESSIONAL USE 30 CM DUAL VOICE COIL SUBWOOFER

5000 W Max.

For enclosure use



Experience the power and punch of an award-winning subwoofer. Pioneer's groundbreaking TS-W5000SPL helped set the SPL world record — with 172.2 dB — at the 2003 dB Drag Finals, as part of the Edge Audio team auto. Boasting four patent-pending designs, the TS-W5000SPL stands for high power handling, louder output, high-quality SPL and excellent response for bass sound. If you're looking for world-class SPL, then the search is over.



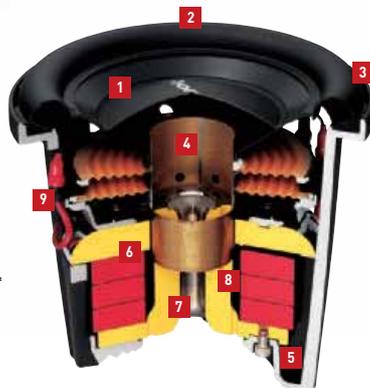
Winner of the 2003 dB Drag Racing World Finals 2003. SPL World record in the Extreme 9+ class.



Photo courtesy of Dave MacKinnon



TS-W5000SPL CUT VIEW



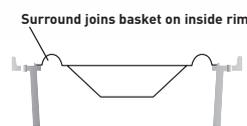
1. Interlaced Carbon Fibre Reinforced IMPP Cone*
2. 3-layer KEVLAR® brand Fibre Woven Radial Rubber Surround*
3. Wide-roll, Overhung Surround*
4. Dual Ceramic-Coated Voice Coils*
5. Aluminium Die-Cast Basket with bottom hold structure
6. Triple-stacked high power magnets
7. ADMG (Aero-Dynamic Magnetic Gap)
8. Extended and vented pole yoke
9. 8-gauge wire terminal

* Patent pending.

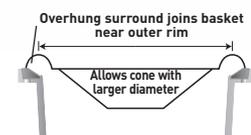
GET MORE SPL WITH THE OVERHUNG SURROUND

To boost SPL output for the TS-W5000SPL, Pioneer engineered the patent-pending overhung surround design. The wide-roll surround extends over the typical gasket area, creating 22 % more moving cone surface area without increasing the size. So you get the higher sound pressure levels you need to come out ahead.

CONE AND SURROUND STRUCTURE



Traditional surround configuration



Wide-roll, overhung surround configuration

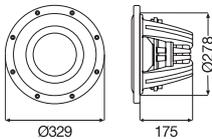
For full features and specifications, please see page 100.

TS-W121SPL

COMPETITION CLASS SPL SUBWOOFER 30 CM DUAL VOICE COIL SUBWOOFER

2000 W Max.

For enclosure use



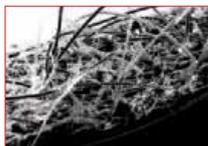
Loads of decibels combined with solid, massive power make the TS-W121SPL a force to be reckoned with. This high-quality subwoofer pumps out +165 dB and 2000 W max. power. Borrowing top technologies from the groundbreaking TS-W5000SPL, such as an innovative IMPP cone and a die-cast aluminium basket, the TS-W121SPL has what it takes for your next SPL competition or trip down the street!



THE RIGHT STUFF: INTERLACED FIBRE REINFORCED IMPP CONE

An extremely rigid yet lightweight cone is vital to prevent cone failure at high sound pressure levels.

Pioneer's range of IMPP cones meets this need perfectly: a proprietary composite blend of long carbon fibres for the TS-W5000SPL, glass fibres/carbon fibres for the TS-W121SPL and TS-W101SPL, carbon/KEVLAR® brand fibres for the TS-SW124D and KEVLAR® brand fibres for the TS-W305C, TSW305F, TS-W255C and TS-W255F. The fibres interlace together to form an exceptionally resilient fibre weave, which provides the strength and rigidity for low distortion, clean and extremely powerful bass. The stuff that champions are made of!



Long Carbon fibre weave

DuPont™
KEVLAR®

HIGH DB DURABILITY: 3-LAYER FIBRE WOVEN RADIAL SURROUND

Most Pioneer subs are outfitted with a patent-pending 3-layer Fibre Woven Radial Surround design. The surround consists of two outer layers (rubber for the TS-W5000SPL) and one inner layer of interwoven fibre (KEVLAR® brand fibre for the TS-W5000SPL) with a honeycomb weave for even distribution throughout the surround material. This eliminates weak points and improves the high power capability for an extremely durable and resilient surround, even under extreme SPL conditions.



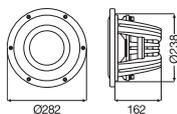
3-layer fibre woven radial surround: an extremely durable and high-performance radial surround

TS-W101SPL

COMPETITION CLASS SPL SUBWOOFER 25 CM DUAL VOICE COIL SUBWOOFER

1500 W Max.

For enclosure use



If you are a big fan of SPL, then the TS-W101SPL may be your winning ticket. The high SPL capability — up to 165 dB — will charge your system with 1500 W of intense power and maximum force. Based on the same technology found in the TS-W5000SPL competition model, this subwoofer is filled with quality material including a wide-roll, 3-layer fibre woven radial surround. Get ready to rock the block!



MASSIVE FORCE OF THE HIGH POWER MOTOR ASSEMBLY

The huge motor assembly of the TS-W5000SPL uses three massive 3 kg magnets to drive the voice coil and cone with incredible force, and therefore overcome the tremendous air pressure resistance experienced in world-class SPL competitions. The TS-W121SPL and TS-W101SPL feature a double-stacked magnet assembly; the TS-W305C and TS-W255C models feature a dual mass magnet assembly. Any way you go, these subs provide exceptional force for superior bass.

SOLID SUPPORT: ALUMINIUM DIE-CAST BASKET WITH BOTTOM HOLD STRUCTURE

During high SPL levels, the motor assembly is placed under extreme pressure. So Pioneer developed an exclusive aluminium die-cast basket for the TS-W5000SPL, TS-W121SPL, TS-W101SPL and TS-SW124D, which securely supports the motor. This basket structure prevents any unwanted flex or vibration that can cause energy loss and reduce overall performance. A solid winner!



Aluminium die-cast basket structure

SHALLOW-TYPE SUBWOOFER

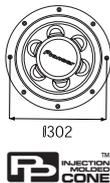
TS-SW124D

30 CM SHALLOW-TYPE SUBWOOFER

NEW

1200 W Max.

For enclosure use



This subwoofer reinvents the concept of 'slim and compact'. Only 8.2 cm deep, it makes installation a breeze no matter how you install it. Its trim package is bursting with top technologies: the Interlaced Carbon/KEVLAR® brand Fibre Reinforced IMPP double cone and a revolutionary, patent-pending space-saving concept. This subwoofer answers the call for high power, pure-sounding performance in a compact design.



TS-SW124D CUT VIEW



1. 3-layer fibre woven radial surround*
2. Interlaced Carbon/KEVLAR® brand Fibre Reinforced IMPP double cone*
3. Double cone reinforcement nodes*
4. Aluminium die-cast one-piece rigid chassis

5. Extended, vented and projected T-pole-type yoke
6. Air suspension excursion control system*

* Patent pending

SPACE-SAVING AIR SUSPENSION EXCURSION CONTROL SYSTEM

The typical subwoofer uses a damper (spider) to control the woofer cone's excursion. The Air suspension system, formed by creating a sealed air space between the double cones, effectively replaces the damper, providing excellent design and performance characteristics. It provides superior compliance linearity, regardless of volume input, for reproducing exceptionally clear, low distortion bass sound.

For full features and specifications, please see page 100.

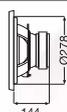
a-CCELERATE SUBWOOFER SERIES



Pioneer's a-Ccelerate subwoofers give a truly powerful and intense bass-kicking performance. Whether it's enclosure use you're looking for, or free-air subwoofers that use your car boot as an acoustic chamber, these subs reach the very lowest frequencies with astounding tonal precision, even at high volumes. Rev up your system with extra power and SPL — purely from Pioneer.



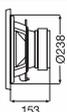
TS-W305C | 30 CM SUBWOOFER



800 W Max. For enclosure use



TS-W255C | 25 CM SUBWOOFER



700 W Max. For enclosure use



UD-G305 | SPOKE GRILLE FOR TS-W121SPL*, TS-SW124D*, TS-W305C AND TS-W305F

UD-G255 | SPOKE GRILLE FOR TS-W101SPL*, TS-W255C AND TS-W255F

* It is necessary to take off the gasket.



Spoke grille



TS-W305F with UD-G305 spoke grille

For full features and specifications, please see page 100.

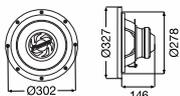
TS-W305F

30 CM SUBWOOFER

NEW

800 W Max.

For free-air use



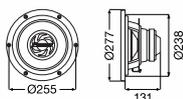
TS-W255F

25 CM SUBWOOFER

NEW

650 W Max.

For free-air use



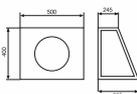
SUBWOOFER ENCLOSURES

Looking to get even more performance out of your high-quality Pioneer subwoofer? The tailored, compact design of Pioneer custom enclosure boxes fully maximises the potential of your Pioneer subwoofer and they are quick and easy to install.

UD-W300S

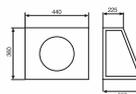


Custom enclosure box for TS-W121SPL and TS-W305C.



UD-W250S

Custom enclosure box for TS-W101SPL and TS-W255C.



UD-SW124S

NEW

Custom enclosure box for TS-SW124D

* For safety reasons, please attach safety belt UD-SB100 when installing custom enclosure boxes UD-W300S, UD-W250S and UD-SW124S.

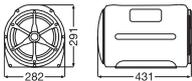
LINEAR POWER RESPONSE SUBWOOFERS

THE PUMP

Pioneer's Pump Series subwoofers are truly out-of-this-world. They are loaded with Linear Power Response technology like the unique edgeless construction that lets the diaphragm slide smoothly over a bigger amplitude. These futuristic designed subwoofers pump out **BIG** bass from a relatively small body.

TS-WX20LPA | 20 CM LINEAR POWER AMPLIFIED SUBWOOFER

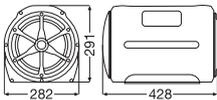
200 W Max.



- Built-in 200 W Max. monaural amplifier, MOSFET PWM power supply
- 20 cm Ø edgeless construction IMPP/Foam composite cone woofer with aluminium die-cast frame
- Bass Reflex design
- RCA/speaker level inputs
- Input gain control/phase switch
- Built-in variable LPF (50 – 125 Hz, -12 dB/Oct)
- 2-layer edge-wise voice coil
- Precision triple damper (large diameter Conex damper)
- Aluminium die-cast heat sink
- Nominal output power: 100 W
- 25 – 200 Hz, 106 dB (in-car)

TS-WX20LP | 20 CM LINEAR POWER SUBWOOFER

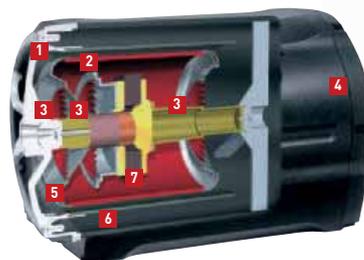
350 W Max.



- 20 cm Ø edgeless construction IMPP/Foam composite cone woofer with aluminium die-cast frame
- Bass Reflex design
- 2-layer edge-wise voice coil
- Precision triple damper (large diameter Conex damper)
- Gold-plated screw terminals
- Max. power: 350 W
- Nominal input power: 120 W
- 25 – 200 Hz, 106 dB (in-car)

LINEAR POWER RESPONSE SUBWOOFERS

Linear Power Response subwoofers use an edgeless Bass Reflex system, and a unique moving system to drive the power. The piston with precision triple damper pumps out extreme bass from a relatively small body. A high-tech 2-layer edge-wise voice coil — with high density and a rigid structure — generates a greater moving force. There's no problem with apertures between wires, as in normal voice coils. Pump subwoofers live up to their name.



1. Aluminium frame
2. Ring port
3. Precision Triple Damper
4. High density resin cabinet
5. Foam IMPP Drive Cone
6. Foam PP side wall
7. Mid-ship mount magnetic circuit with large magnet

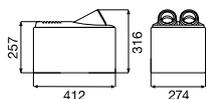
SUBWOOFER BOXES

TS-WX206A

20 CM BANDPASS AMPLIFIED SUBWOOFER

NEW

150 W Max. / Max. SPL 128 dB



If you want powerful bass sound, but don't want to sacrifice boot space, then this high performing model is on the mark. Its compact design makes installation easy and flexible. And no matter how packed the trunk, the large-sized aluminium die-cast heat sink keeps cool. A MOSFET 150 W amp improves amplifier performance. The TS-WX206A looks and performs the part of a true muscle amp, with the high SPL you want.

- Built-in MOSFET 150 W power amplifier
- 20 cm Ø IMPP composite cone woofer
- Large dual port bandpass design
- RCA/speaker level inputs
- Input level control/phase switch
- Built-in variable LPF (50 – 125 Hz, -12 dB/Oct)
- Aluminium die-cast heat sink
- Nominal output power: 60 W
- 35 – 200 Hz, 107 dB (in-car), Max. SPL 128 dB (in-car)



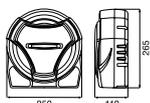
SUBWOOFER BOXES

TS-WX22A

20 CM SEALED AMPLIFIED SUBWOOFER

NEW

150 W Max.



Fantastically powerful bass can come in small packages. Just look at the TS-WX22A, an extremely compact, 20 cm subwoofer that fits snugly in the boot or under a seat. Functional as well as flexible, it packs quite a punch too. A MOSFET 150 W amp provides massive bass, while the aluminium die-cast heat sink offers distortion-less, superior sound. A wired remote control is included for easy sound tuning.



Standard wired remote control

- Built-in MOSFET 150 W power amplifier
- 20 cm Ø IMPP composite cone woofer
- Sealed-type design
- RCA/speaker level inputs
- Wired remote controller (6 m):
Input level control/phase switch Built-in variable LPF (50 – 125 Hz, -12 dB/Oct)
- Aluminium die-cast heat sink
- Available for vertical/horizontal installation
- Nominal output power: 60 W
- 40 – 200 Hz, 101 dB (in-car)

EXTREMELY VERSATILE AND COMPACT DESIGN

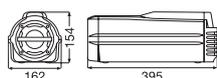
The slim-designed TS-WX22A requires only a minimum amount of space, so you'll hardly be deprived of any luggage room. It is so compact that it can be installed in various locations and positions, either horizontally or vertically.



Pioneer subwoofer boxes are a great choice for deep bass and true sound variation in an all-in-one solution. With built-in amplifier, Pioneer's TS-WX105A is small and easy-to-install, but still manages 100 watts of output power. The TS-WX205 delivers loud and kicking bass thanks to dual large ports and 20 cm woofer. These compact models can be installed easily and quickly into your location of choice.

TS-WX105A | 10 CM BASS REFLEX AMPLIFIED SUBWOOFER

100 W Max.



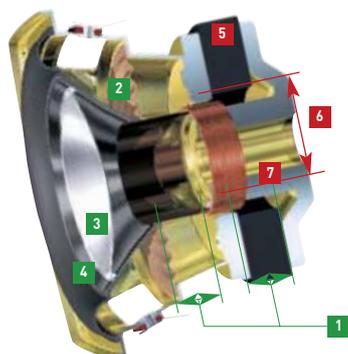
- Built-in 100 W Max. monaural power amplifier
- 10 cm IMPP composite cone woofer
- Long-stroke designed woofer unit with large diameter Conex damper
- Bass Reflex rear port design with 4 litre capacity
- RCA/speaker level inputs
- Input gain control/phase switch
- Aluminium die-cast heat sink
- Nominal output power: 50 W
- 40 – 180 Hz, 100 dB (in-car)

TS-WX205 | 20 CM BANDPASS SUBWOOFER

250 W Max. / Max. SPL 129 dB



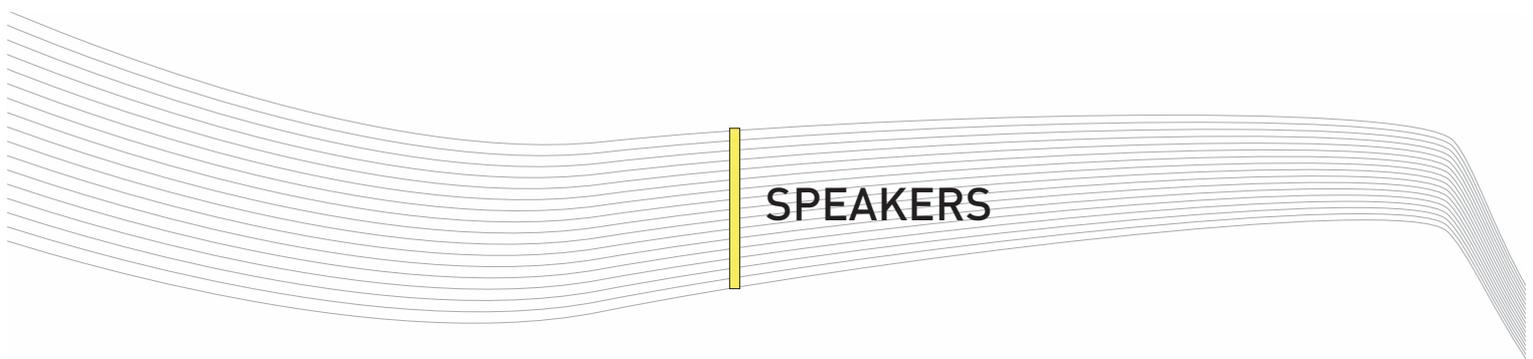
- 20 cm IMPP composite cone woofer
- Large dual port bandpass design
- Auto ON/OFF overload protector
- Gold-plated screw terminal
- Nominal input power: 100 W
- 35 – 200 Hz, 107 dB (in-car), Max. SPL 129 dB (in-car)



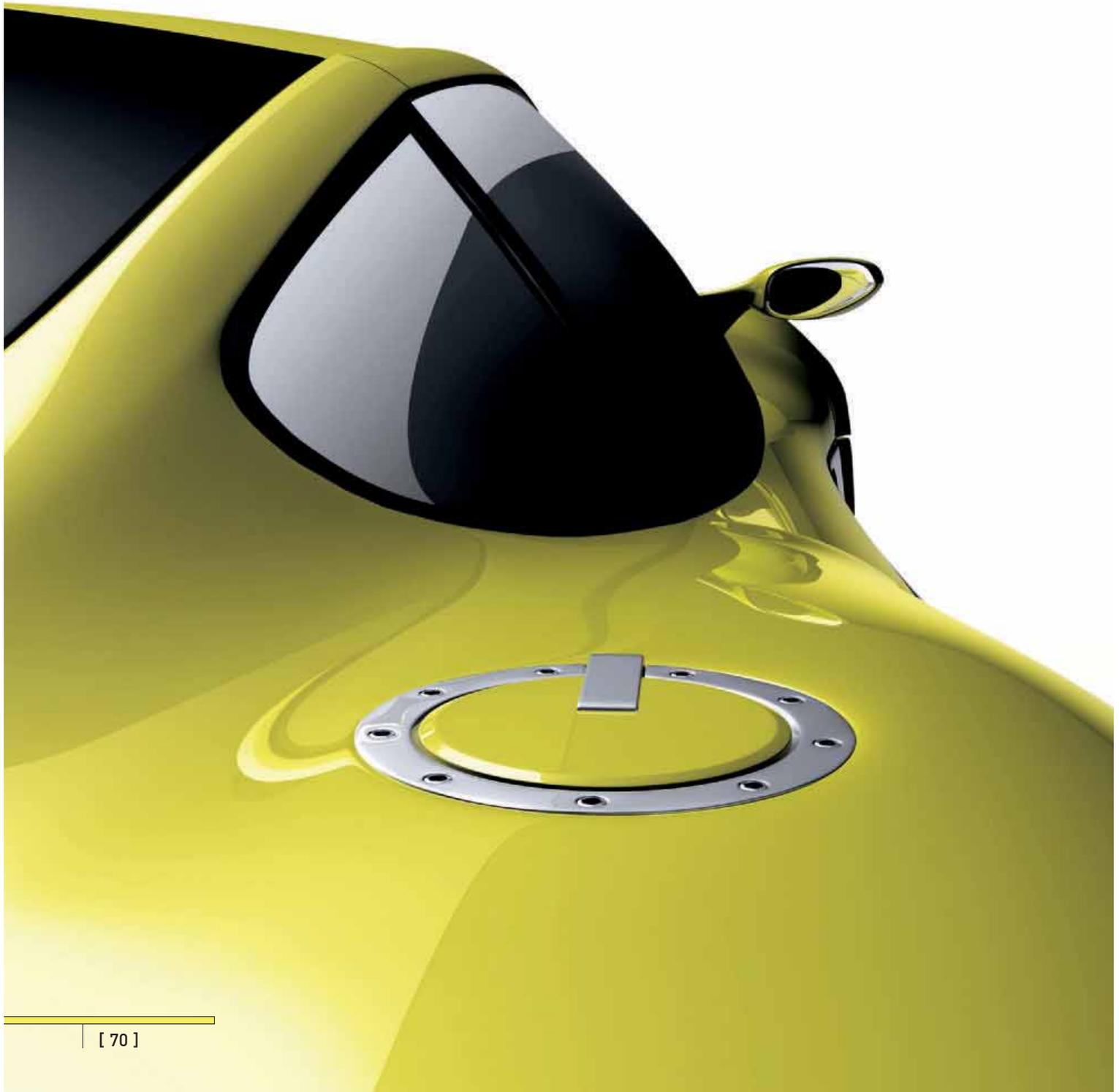
TS-WX105A CUT VIEW

- Green features allow long excursion
- Red features generate powerful moving force

1. Long stroke design
2. Large diameter Conex damper
3. Mass controlled concave dust cap
4. IMPP Cone with big-roll edge
5. Large sized magnet
6. Large diameter voice coil
7. Bumped and vented pole yoke

A series of thin, wavy, horizontal lines in a light gray color, spanning the width of the page above the title.

SPEAKERS





PURE SOUND, ANY WAY YOU WANT IT

It's time to move up to the next level. Your in-car sound system will only be truly complete with really top-class speakers. And you won't find a better — or wider — choice anywhere else. The e-motion series is totally new. Highly stylish, you can revel in pure and accurate sound. If you like it loud, then go for a-Ccelerate. These speakers look tough and have the kicking power to match. The redesigned TS-G series has it all: ample power, sound, great looks — and they won't break the bank.

Can't see what you're looking for? No prob, Pioneer has a full range of custom-fit speakers. Show us the car, we'll show you the speaker. Not to mention powerful sound and easy installation. Whichever model you choose, you can't lose with a Pioneer. From the legendary speaker maker, what else would you expect but legendary sound.



You want your sound to look fashionable and sound sophisticated. These high-tech new e-motion speakers fit the bill. Every sound performance is as pure and accurate as possible. Pioneer made sure of it, by incorporating outstanding and unique technology, such as the KEVLAR® brand fibre composite cone woofer and the world's first Pure Magnesium Balanced Dome midrange/tweeter. So you get precise, distortion-free audio, ideal for the latest audio formats. The separate 2-way models come with a soft dome tweeter offering great directivity and perfectly natural, smooth tones.

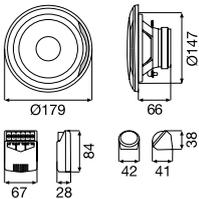
TS-E176C

17 CM SEPARATE 2-WAY SPEAKER SYSTEM

220 W Max.

NEW DuPont™ **KEVLAR®**

- Tweeter fitting kits included:
 - Surface mount slant spacer
 - Custom tweeter bracket for Renault, Peugeot and Citroën
- Passive Crossover Network included



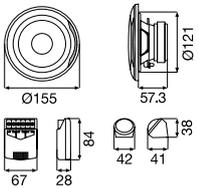
TS-E136C

13 CM SEPARATE 2-WAY SPEAKER SYSTEM

160 W Max.

NEW DuPont™ **KEVLAR®**

- Tweeter fitting kits included:
 - Surface mount slant spacer
- Passive Crossover Network included



KEVLAR® BRAND FIBRE COMPOSITE CONE WOOFER

DuPont™ **KEVLAR®**

Material choice can make all the difference. KEVLAR® brand fibres create a much stronger speaker cone that reproduces more accurate and vivid sound. You will notice the rich, full-bodied sound character with excellent midrange depth as well as more natural tones.



KEVLAR® brand Fibre Woofer Cone with Concave Centre Cap

A CUTTING-EDGE WORLD'S FIRST: PURE MAGNESIUM BALANCED DOME

The e-motion coaxial speakers come equipped with a world premiere — the Pure Magnesium Balanced Dome midrange/tweeter. With the advantage of being a pure metal, yet lightweight, magnesium delivers superior detailed sound, smooth and high-speed sound reproduction, high sensitivity and a wide range. Pioneer was also able to incorporate this material in a revolutionary 0.05 mm hyper-thin design. You can be sure of distortion-free midrange sound, ideal for the latest audio formats such as DVD-Audio.



Pure Magnesium Balanced Dome

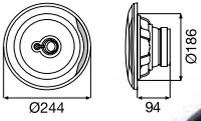
TS-E2096

20 CM COAXIAL 3-WAY SPEAKERS

360 W Max.

NEW

DuPont™
KEVLAR®



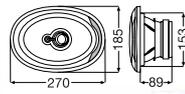
TS-E6996

6" X 9" COAXIAL 3-WAY SPEAKERS

360 W Max.

NEW

DuPont™
KEVLAR®



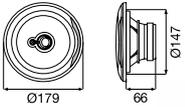
TS-E1796

17 CM COAXIAL 3-WAY SPEAKERS

220 W Max.

NEW

DuPont™
KEVLAR®



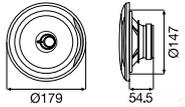
TS-E1776

17 CM COAXIAL 2-WAY SPEAKERS

180 W Max.

NEW

DuPont™
KEVLAR®



- Middle depth basket for easy mounting



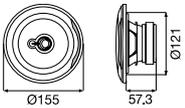
TS-E1396

13 CM COAXIAL 3-WAY SPEAKERS

160 W Max.

NEW

DuPont™
KEVLAR®



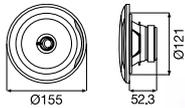
TS-E1376

13 CM COAXIAL 2-WAY SPEAKERS

130 W Max.

NEW

DuPont™
KEVLAR®



TS-E1076

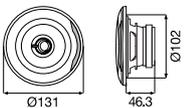
10 CM COAXIAL 2-WAY SPEAKERS

110 W Max.

NEW

DuPont™
KEVLAR®

- Round/square compatible frame



	TS-E176C	TS-E136C	TS-E2096	TS-E6996	TS-E1796	TS-E1776	TS-E1396	TS-E1376	TS-E1076
KEVLAR® brand fibre composite cone woofer with butyl rubber edge (ø)	17 cm	13 cm	20 cm	6" x 9" (163 x 237 mm)	17 cm	17 cm	13 cm	13 cm	10 cm
Soft Dome tweeter (ø)	25 mm	25 mm				30 mm		25 mm	25 mm
Pure Magnesium Balanced Dome tweeter (ø)									
Tweeter (ø)			12 mm	12 mm	10 mm		10 mm		
Pure Magnesium Balanced Dome midrange (ø)			43 mm	43 mm	30 mm		25 mm		
Neodymium magnet	•	•	•	•	•	•	•	•	•
Passive Crossover network	•	•							
Frequency Response	28 – 32,000 Hz	40 – 32,000 Hz	25 – 32,000 Hz	25 – 32,000 Hz	28 – 32,000 Hz	28 – 30,000 Hz	40 – 32,000 Hz	40 – 30,000 Hz	45 – 30,000 Hz
Sensitivity (1 W/1 m)	91 dB	90 dB	91 dB	91 dB	91 dB	90 dB	90 dB	90 dB	90 dB
Nominal input power	60 W	35 W	90 W	80 W	60 W	35 W	35 W	30 W	25 W

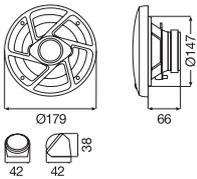


Are you tough enough to handle the power-kicking boom of Pioneer's a-Ccelerate series? These are some of the loudest and toughest speakers around. Backed up by Pioneer proven speaker technology, you're guaranteed amazing sound quality too. Choose from a full line of bass-blasting sizes; then add an a-Ccelerate subwoofer for the ultimate sound explosion.

TS-A171C

17 CM SEPARATE 2-WAY SPEAKER SYSTEM

220 W Max.



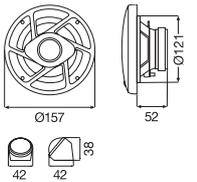
- Tweeter fitting kits included:
 - Surface mount slant spacer
 - Custom tweeter bracket for Renault, Peugeot and Citroën



TS-A131C

13 CM SEPARATE 2-WAY SPEAKER SYSTEM

160 W Max.



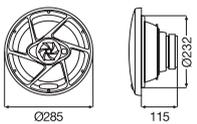
- Tweeter fitting kits included:
 - Surface mount slant spacer
 - Custom tweeter bracket for Renault



TS-A2510

25 CM 3-WAY SPEAKERS

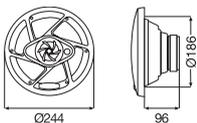
400 W Max.



TS-A2010

20 CM 3-WAY SPEAKERS

350 W Max.



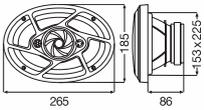
Foamed PPC (Pearl PolyCarbon)

The TS-A6920 features a Foamed PPC (Pearl PolyCarbon) Balanced Dome midrange. It combines light weight with high inner loss producing lower distortion and creates high sensitivity, which ensures smooth frequency response without fatiguing harshness.

TS-A6920

6" x 9" 4-WAY SPEAKERS

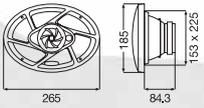
360 W Max.



TS-A6910

6" x 9" 3-WAY SPEAKERS

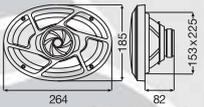
330 W Max.



TS-A6900

6" x 9" 2-WAY SPEAKERS

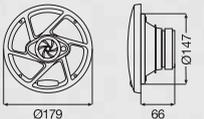
240 W Max.



TS-A1710

17 CM 3-WAY SPEAKERS

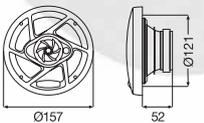
200 W Max.



TS-A1310

13 CM 3-WAY SPEAKERS

150 W Max.



Crystalline IMPP Cone woofer with butyl rubber edge (ø)
Crystalline IMPP Cone woofer (ø)
PPC (Pearl PolyCarbon) Balanced Dome midrange (ø)
Cone Midrange (ø)
PEI Balanced Dome tweeter with Neodymium magnet (ø)
Tweeter (ø)
Super tweeter
In-line Crossover network
Frequency Response
Sensitivity (1 W/1 m)
Nominal input power

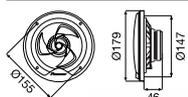
TS-A171C	TS-A131C	TS-A2510	TS-A2010	TS-A6920	TS-A6910	TS-A6900	TS-A1710	TS-A1310
17 cm	13 cm	25 cm	20 cm	6" x 9" (163 x 237 mm)	6" x 9" (163 x 237 mm)		17 cm	13 cm
						6" x 9" (163 x 237 mm)		
				66 mm				
		66 mm	66 mm		66 mm		42 mm	42 mm
28 mm	28 mm							
		18 mm	18 mm	18 mm	18 mm	66 mm	10 mm	10 mm
				18 mm				
28 - 30,000 Hz	40 - 30,000 Hz	25 - 30,000 Hz	25 - 30,000 Hz	25 - 32,000 Hz	25 - 30,000 Hz	28 - 26,000 Hz	28 - 30,000 Hz	40 - 30,000 Hz
92 dB	91 dB	93 dB	93 dB	93 dB	93 dB	93 dB	92 dB	91 dB
60 W	40 W	100 W	90 W	80 W	80 W	40 W	50 W	35 W

TS-G SPEAKER SERIES

If you are shopping for speakers that sound right, look tough and are affordable, then Pioneer's TS-G series is the perfect choice. You'll enjoy quality sound from this speaker series, thanks to the IMPP cone woofer with Power Blades. Engineers created this feature with an ear for clear and powerful sound — with a thorough analysis of vibration. The shallow basket frame and removable ear-type screw holes ensure easy fitting in most cars.

TS-G1748

17 CM 2-WAY SPEAKERS



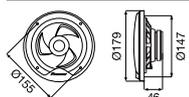
170 W Max.

NEW INJECTION MOLDED CONE



TS-G1718

17 CM DUAL-CONE SPEAKERS



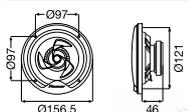
170 W Max.

NEW INJECTION MOLDED CONE



TS-G1348

13 CM 2-WAY SPEAKERS



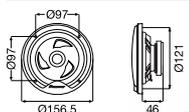
130 W Max.

NEW INJECTION MOLDED CONE



TS-G1318

13 CM DUAL-CONE SPEAKERS



130 W Max.

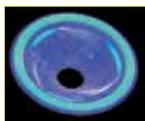
NEW INJECTION MOLDED CONE



• Removable ear-type screw holes for Renault

• Removable ear-type screw holes for Renault

POWER BLADES



These protrusions act as additional support, eliminating unwanted vibration and increasing the rigidity of the cone. This in turn guarantees that TS-G speakers offer the lowest distortion possible to produce the purest, most accurate sound and maximum power handling.

REMOVABLE EAR-TYPE SCREW HOLES



Both the TS-G1348 and TS-G1318 have removable ear-type screw holes for easy fitting, especially in Renault cars.

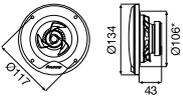
Note: Depending on the car type, it might be necessary to cut the factory installed bracket.

	TS-G1748	TS-G1718	TS-G1348	TS-G1318	TS-G1048	TS-G1018
IMPP Cone Woofer (ø)	17 cm	17 cm	13 cm	13 cm	10 cm	10 cm
Cone Tweeter with Neodymium Magnet (ø)	42 mm		42 mm		37 mm	
Shallow basket design	•	•	•	•	•	•
Power blades	•	•	•	•	•	•
Frequency Response	30 – 25,000 Hz	30 – 22,000 Hz	40 – 25,000 Hz	40 – 22,000 Hz	45 – 25,000 Hz	45 – 22,000 Hz
Sensitivity (1 W/1 m)	92 dB	92 dB	91 dB	91 dB	90 dB	90 dB
Nominal input power	35 W	35 W	25 W	25 W	20 W	20 W

TS-G1048

10 CM 2-WAY SPEAKERS

110 W Max.



NEW

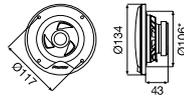


- Round/square compatible frame

TS-G1018

10 CM DUAL-CONE SPEAKERS

110 W Max.



NEW



- Round/square compatible frame

SURFACE MOUNT SPEAKERS

Pioneer offers a selection of add-on speakers that create that perfectly tuned in-car sound. Surface mount speakers offer great installation flexibility. If you want the ultimate in-car cinema experience, add on the TS-CX7 centre speaker to achieve 5.1-channel surround sound. Specialised tweeters give your system that finishing touch.

TS-CX7

CENTRE SPEAKER FOR 5.1-CHANNEL SURROUND SOUND

60 W Max.

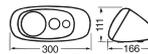
- Stable dash mounting



TS-X150

3-WAY SPEAKERS

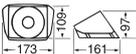
60 W Max.



TS-44

FULL-RANGE SPEAKERS

40 W Max.



KEVLAR® brand fibre composite cone
midrange with butyl rubber edge (ø)
Cone woofer (ø)
Full-range speaker (ø)
Horn midrange (ø)
Horn tweeter (ø)
Double Neodymium magnets
Frequency Response
Sensitivity (1 W/1 m)
Nominal input power

TS-CX7	TS-X150	TS-44
57 mm		
	13 cm	
•		10 cm
	27 mm	
•	20 mm	
140 – 30,000 Hz	75 – 20,000 Hz	180 – 20,000 Hz
80 dB	89 dB	88 dB
20 W	20 W	10 W

TWEETERS

TS-T23

DOMTWEETERS

150 W Max.



- To be used with an active or passive network

TS-S15

TUNE-UP DOMTWEETERS

120 W Max.



Soft dome liquid crystal fibre (Polyarylate) tweeter (ø)
Soft dome styrene-rubber-coated polyester tweeter (ø)
Cut-off frequency
Crossover frequency
Versatile Mounting (3-way surface mount)
Slant spacer included
In-line crossover network
Frequency Response
Sensitivity (1 W/1 m)
Nominal input power

TS-T23	TS-S15
25 mm	
	20 mm
≥ 4000 Hz with -12 dB/Oct	
	6000 Hz with -6 dB/Oct
•	•
•	•
•	•
2,500 – 30,000 Hz	2,500 – 30,000 Hz
90 dB (1 W/1 m)	90 dB (1 W/0.5 m)
50 W	40 W

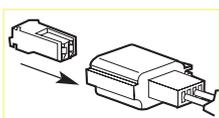
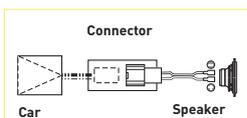
SEPARATE COMPONENT HIGH-GRADE CUSTOM-FIT SPEAKERS



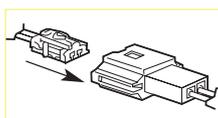
Easy Connector

These systems — made up of select separate woofers and tweeters — give a truly outstanding performance. The woofers are designed to fit the car's existing speaker provision and the tweeters can be fitted either in the speaker provisions or any convenient location to optimise the overall sound image in the front of the car. The Easy Connector makes installation simple, allowing you to attach the speakers to the car's speaker connectors.

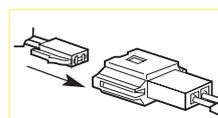
EASY CONNECTORS



Type 1
Alfa, Citroën,
Peugeot (~'98)



Type 2
Peugeot ('98-)

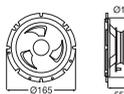


Type 3
Opel, Renault,
Seat, Volvo

TS-H1704

17 CM SEPARATE 2-WAY SPEAKER SYSTEM

150 W Max.



- Original tweeter location fitting for Fiat Punto, Peugeot 206, including connection caps



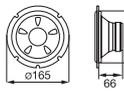
Fiat Punto, Peugeot 206



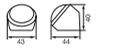
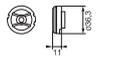
TS-H1703

17 CM SEPARATE 2-WAY SPEAKER SYSTEM

180 W Max.



- Tweeter fitting kits included:
 - Surface mount slant spacer
 - Custom tweeter bracket for Renault/Peugeot/Citroën, Opel/Vauxhall/VW



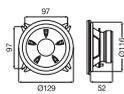
Alfa Romeo, Audi, Citroën, Fiat, Ford, Lancia, Mercedes-Benz, Opel/Vauxhall, Peugeot, Renault, Rover, Seat, Volkswagen



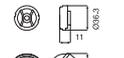
TS-H1303

13 CM SEPARATE 2-WAY SPEAKER SYSTEM

130 W Max.



- Tweeter fitting kits included:
 - Surface mount slant spacer
 - Custom tweeter bracket for Renault
- Original tweeter location fitting for Mercedes A Class



Alfa Romeo, BMW, Citroën, Hyundai, Lada, Mercedes-Benz, Opel/Vauxhall, Peugeot, Renault, Rover, Seat, Volvo



IMPP Cone woofer with butyl rubber edge (ø)
Metal-Coated PI balanced dome tweeter with Neodymium magnet (ø)
PEI balanced dome tweeter with Neodymium magnet (ø)
Power Blades
Cone-integrated conical domes
Easy Connector
In-line crossover network
Frequency Response
Sensitivity (1 W/1 m)
Nominal input power

TS-H1704	TS-H1703	TS-H1303
17 cm	17 cm	13 cm
	26 mm	26 mm
22 mm		
•		
	•	•
	•	•
	•	•
30 – 30,000 Hz	30 – 30,000 Hz	40 – 30,000 Hz
91 dB	91 dB	90 dB
35 W	50 W	35 W

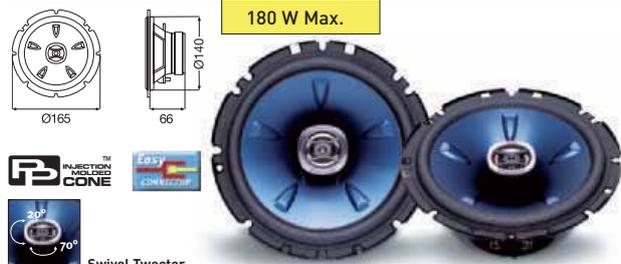
COAXIAL HIGH-GRADE CUSTOM-FIT SPEAKER SERIES

For impressively rich, natural sound and simple installation, Coaxial High-Grade Custom-Fit speakers are the clear choice. IMPP cone woofers with cone-integrated conical domes ensure richer bass, and the unique Swivel Tweeter allows more flexible customisation. Now connection is even easier with the Easy Connector — just hook up the speakers to the car's speaker connectors.

TS-H177

17 CM 2-WAY SPEAKERS

180 W Max.

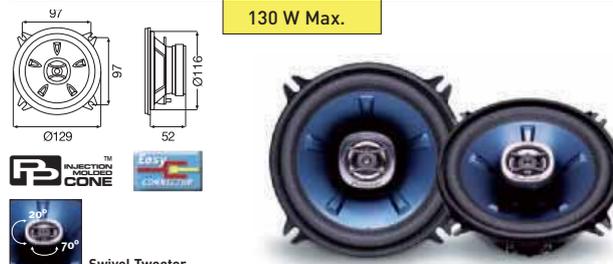


Alfa Romeo, Audi, Citroën, Fiat, Ford, Lancia, Mercedes-Benz, Opel/Vauxhall, Peugeot, Renault, Rover, Seat, Volkswagen

TS-H137

13 CM 2-WAY SPEAKERS

130 W Max.



Alfa Romeo, BMW, Citroën, Hyundai, Lada, Mercedes-Benz, Opel/Vauxhall, Peugeot, Renault, Rover, Seat, Volvo

TS-H107

10 CM 2-WAY SPEAKERS

110 W Max.



• Round/square compatible frame

Audi, BMW, Fiat, Lancia, Mercedes-Benz, Peugeot, Renault, Rover, Saab, Seat, Suzuki, VW, Volvo

TS-H683

6" x 8" 3-WAY SPEAKERS

180 W Max.



• Including connection caps

Ford Focus/Mondeo, Mazda 323/626

TS-H467

4" x 6" 2-WAY SPEAKERS

110 W Max.



Daewoo, Fiat, Lancia, Seat, Volkswagen

TS-H871

8.7 CM 2-WAY SPEAKERS

60 W Max.



• ARM™ basket
• Integrated cone/edge moulding with elastomer surround

Fiat*, Saab, Seat
* Fiat Punto with adapter UD-M870

IMPP Cone woofer [ø]
Foamed IMPP composite cone woofer with butyl rubber edge [ø]
Carbon-Graphite blended IMPP Cone woofer [ø]
Foamed PPC [Pearl PolyCarbon] balanced dome midrange with Strontium magnet [ø]
Metal-Coated PI balanced dome tweeter with Neodymium magnet [ø]
PEI dome tweeter with Neodymium magnet [ø]
Dome tweeter [ø]
Swivel Tweeter
Cone-integrated conical domes
Easy Connector
Frequency Response
Sensitivity (1 W/1 m)
Nominal input power

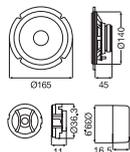
TS-H177	TS-H137	TS-H683	TS-H467	TS-H107	TS-H871
17 cm	13 cm		4" x 6" (95 x 153 mm)	10 cm	
		6" x 8" (145 x 204 mm)			
		36 mm			8.7 cm
26 mm	26 mm		26 mm	26 mm	
		10 mm			13 mm
•	•		•	•	
•	•				
30 – 30,000 Hz	40 – 30,000 Hz	30 – 30,000 Hz	45 – 30,000 Hz	45 – 30,000 Hz	60 – 28,000 Hz
91 dB	90 dB	91 dB	90 dB	90 dB	88 dB
50 W	35 W	50 W	25 W	25 W	15 W

SEPARATE COMPONENT CUSTOM-FIT SPEAKER

Want easy fitting at an affordable price? Then Separate Component Custom-Fit Speakers are for you. With separate tweeters you get better sound imaging too.

TS-1785 | 17 CM SEPARATE 2-WAY SPEAKER SYSTEM

150 W Max.



- Tweeter fitting kits included:
 - Surface mount slant spacer
 - Custom tweeter bracket for Renault/Peugeot/Citroën, Opel/Vauxhall/VW



Alfa Romeo, Audi, Citroën, Fiat, Ford, Lancia, Mercedes-Benz, Opel/ Vauxhall, Peugeot, Renault, Rover, Seat, Volkswagen

IMPP Cone woofer (ø)
PEI Balanced Dome tweeter (ø)
Shallow basket design
In-line crossover network
Frequency Response
Sensitivity (1 W/1 m)
Nominal input power

TS-1785
17 cm
26 mm
•
•
35 – 30,000 Hz
90 dB
35 W



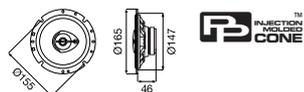
CUSTOM-FIT SPEAKER SERIES

For those looking for solid quality sound for a particular car, Pioneer Custom-Fit speakers offer an affordable solution. They're easy to install too. The 17 cm models feature an Easy Connector for direct access to the car's speaker connectors, the 13 cm models have removable ear-type screw holes for Renault, and the 10 cm models come with removable screw holes, allowing compatibility with round and square basket frames.

TS-1776II | 17 CM 3-WAY SPEAKERS

NEW

170 W Max.

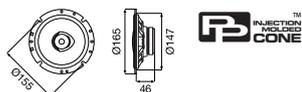


Alfa Romeo, Audi, Citroën, Fiat, Ford, Lancia, Mercedes-Benz, Opel/Vauxhall, Peugeot, Renault, Rover, Seat, Volkswagen

TS-1756II | 17 CM 2-WAY SPEAKERS

NEW

160 W Max.

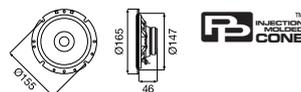


Alfa Romeo, Audi, Citroën, Fiat, Ford, Lancia, Mercedes-Benz, Opel/Vauxhall, Peugeot, Renault, Rover, Seat, Volkswagen

TS-1746II | 17 CM DUAL-CONE SPEAKERS

NEW

160 W Max.

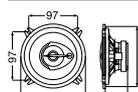


Alfa Romeo, Audi, Citroën, Fiat, Ford, Lancia, Mercedes-Benz, Opel/Vauxhall, Peugeot, Renault, Rover, Seat, Volkswagen

TS-1376II | 13 CM 3-WAY SPEAKERS

NEW

170 W Max.

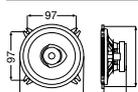


• Removable ear-type screw holes for Renault
Alfa Romeo, BMW, Citroën, Hyundai, Lada, Mercedes-Benz, Opel/Vauxhall, Peugeot, Renault, Rover, Seat, Volvo

TS-1356II | 13 CM 2-WAY SPEAKERS

NEW

160 W Max.

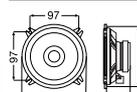


• Removable ear-type screw holes for Renault
Alfa Romeo, BMW, Citroën, Hyundai, Lada, Mercedes-Benz, Opel/Vauxhall, Peugeot, Renault, Rover, Seat, Volvo

TS-1346II | 13 CM DUAL-CONE SPEAKERS

NEW

160 W Max.



• Removable ear-type screw holes for Renault
Alfa Romeo, BMW, Citroën, Hyundai, Lada, Mercedes-Benz, Opel/Vauxhall, Peugeot, Renault, Rover, Seat, Volvo

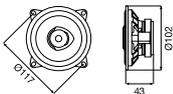
CUSTOM-FIT SPEAKER SERIES

TS-1056II

10 CM 2-WAY SPEAKERS

100 W Max.

NEW



• Round/square compatible frame

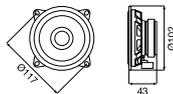
Audi, BMW, Citroën, Fiat, Mercedes-Benz, Peugeot, Renault, Rover, Saab, Seat, Volkswagen, Volvo

TS-1046II

10 CM DUAL-CONE SPEAKERS

100 W Max.

NEW



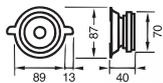
• Round/square compatible frame

Audi, BMW, Citroën, Fiat, Mercedes-Benz, Peugeot, Renault, Rover, Saab, Seat, Volkswagen, Volvo

TS-876

8.7 CM 2-WAY SPEAKERS

40 W Max.

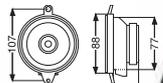


Fiat*, Saab, Seat, Volkswagen
* Fiat Punto with adapter UD-M870

TS-875

8.7 CM 2-WAY SPEAKERS

50 W Max.

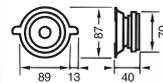


• ARM™ basket with Punto connector (just-fit design)
Fiat Punto

TS-874

8.7 CM DUAL-CONE SPEAKERS

40 W Max.

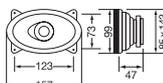


Fiat*, Saab, Seat, Volkswagen
* Fiat Punto with adapter UD-M870

TS-4638

4" x 6" 3-WAY SPEAKERS

70 W Max.

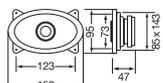


Daewoo, Fiat, Lancia, Nissan, Seat, Volkswagen

TS-4628

4" x 6" 2-WAY SPEAKERS

50 W Max.

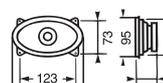


Daewoo, Fiat, Lancia, Nissan, Seat, Volkswagen

TS-4621

4" x 6" DUAL-CONE SPEAKERS

60 W Max.

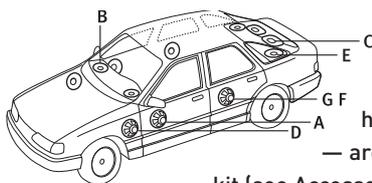


Daewoo, Fiat, Lancia, Nissan, Seat, Volkswagen

	TS-1776II	TS-1756II	TS-1746II	TS-1376II	TS-1356II	TS-1346II
IMPP Cone woofer [ø]	17 cm	17 cm	17 cm	13 cm	13 cm	13 cm
Cone midrange with Neodymium magnet [ø]	42 mm			42 mm		
Cone tweeter [ø]		42 mm			36 mm	
Tweeter [ø]	10 mm			10 mm		
Shallow basket design	•	•	•	•	•	•
Easy Connector	•	•	•	•	•	•
DIN/Peugeot type terminal				•	•	•
Frequency Response	30 – 26,000 Hz	30 – 22,000 Hz	30 – 22,000 Hz	40 – 26,000 Hz	40 – 22,000 Hz	40 – 22,000 Hz
Sensitivity (1 W/1 m)	92 dB	92 dB	92 dB	91 dB	91 dB	91 dB
Nominal input power	35 W	35 W	35 W	25 W	25 W	25 W

	TS-1056II	TS-1046II	TS-876	TS-875	TS-874	TS-4638	TS-4628	TS-4621
IMPP Cone woofer [ø]	10 cm	10 cm		8.7 cm				
Cone woofer [ø]			8.7 cm		8.7 cm			
Cone midrange [ø]						4" x 6" [95 x 153 mm]	4" x 6" [95 x 153 mm]	4" x 6" [95 x 153 mm]
Cone tweeter [ø]	30 mm		38 mm	30 mm		42 mm	42 mm	
Tweeter [ø]					11 mm			
Shallow basket design	•	•						
DIN/VAG & Renault type terminal	•	•						
Frequency Response	45 – 22,000 Hz	45 – 22,000 Hz	90 – 20,000 Hz	75 – 30,000 Hz	90 – 20,000 Hz	45 – 28,000 Hz	45 – 25,000 Hz	50 – 20,000 Hz
Sensitivity (1 W/1 m)	90 dB	90 dB	90 dB	89 dB	90 dB	90 dB	90 dB	90 dB
Nominal input power	20 W	20 W	10 W	10 W	10 W	15 W	10 W	10 W

CUSTOM-FIT SPEAKERS APPLICATION CHART

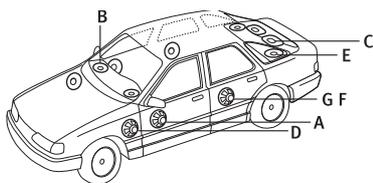


Pioneer offers a wide range of universal and custom-fit speakers to fit many cars. The chart below lists many popular car models, and the Pioneer speakers which can fit them. With custom-fit speakers, installation is easy and exact; they fit perfectly in the speaker holes — no cutting or drilling necessary. If universal speakers — see chart pages 87-89 — are preferred, they can be mounted in the car's speaker provisions with the use of an adapter kit (see Accessories), or mounted in the back. (This list may not apply to all cars listed, because not all cars in each country have all the required speaker provisions).

CAR BRAND	MODEL & INTRODUCTION DATE	LOCATION	HIGH GRADE SEPARATE	HIGH GRADE CO-AXIAL	SEPARATE COMPONENT	3-WAY	2-WAY	DUAL CONE	SPEAKER INTERFACE KITS	SPEAKER ADAPTER PLATES	
ALFA ROMEO	145 (9/94-4/01)	A	TS-H1703* (I)	TS-H177*		TS-1776 II	TS-1756 II	TS-1746 II		*UD-M171	
		A			TS-1785 (I)						
	146 (9/95-4/01)	F	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II			
		A	TS-H1703* (I)	TS-H177*		TS-1776 II	TS-1756 II	TS-1746 II		*UD-M171	
		A			TS-1785 (I)						
		G				TS-1776 II	TS-1756 II	TS-1746 II			
	155 (3/92-9/97)	G			TS-1785				TS-1746 II		UD-M171
		C	TS-H1703	TS-H177		TS-1785					UD-M171
	156 (9/97-)	A	TS-H1703*	TS-H177*		TS-1785	TS-1776 II	TS-1756 II	TS-1746 II		*UD-M171
		A									
		G	TS-H1703*	TS-H177*		TS-1785	TS-1776 II	TS-1756 II	TS-1746 II		*UD-M171
		G									
	164 Super (3/92-9/98)	A	TS-H1703	TS-H177		TS-1785		TS-1756 II	TS-1746 II		
		A									
166 (10/98-)	A				TS-1785	TS-1776 II	TS-1756 II	TS-1746 II			
	A										
	C					TS-1776 II	TS-1756 II	TS-1746 II			
	C				TS-1785						
	G					TS-1776 II	TS-1756 II	TS-1746 II			
	G				TS-1785						
AUDI	80 4-door (11/91-12/94)	B		TS-H107			TS-1056 II	TS-1046 II			
		B					TS-1056 II	TS-1046 II			
	90 Coupé (9/88-12/94)	B			TS-H107			TS-1056 II	TS-1046 II		
		B						TS-1056 II	TS-1046 II		
	V8 (10/88-4/94)	A									
		A	TS-H1703	TS-H177		TS-1785	TS-1776 II	TS-1756 II	TS-1746 II		UD-M171WW
	A4 4-door (01/01-)	A									
		G	TS-H1703	TS-H177		TS-1785	TS-1776 II	TS-1756 II	TS-1746 II		UD-M171WW
		A									
		G	TS-H1703	TS-H177		TS-1785	TS-1776 II	TS-1756 II	TS-1746 II		UD-M171WW
	A6 (3/97-)	A	TS-H1703	TS-H177		TS-1785	TS-1776 II	TS-1756 II	TS-1746 II		
		A									
		G	TS-H1703	TS-H177		TS-1785	TS-1776 II	TS-1756 II	TS-1746 II		
		G									
TT (10/98-)	A	TS-H1703	TS-H177		TS-1785	TS-1776 II	TS-1756 II	TS-1746 II			
	A										
BMW	3-series 2-door (10/85-1/92)	D	TS-H1303				TS-1356 II	TS-1346 II			
		D					TS-1356 II	TS-1346 II			
	3 Touring (1/88-4/00)	D	TS-H1303					TS-1356 II	TS-1346 II		
		E		TS-H107				TS-1056 II	TS-1046 II		
	3-series 4-door (12/90-2/98)	D	TS-H1303					TS-1356 II	TS-1346 II		
		D						TS-1356 II	TS-1346 II		
	3-series Coupé (1/92-1/99)	D	TS-H1303					TS-1356 II	TS-1346 II		
		D						TS-1356 II	TS-1346 II		
	3 Compact (3/94-10/00)	D	TS-H1303					TS-1356 II	TS-1346 II		
		D						TS-1356 II	TS-1346 II		
	5-series (1/88-6/95)	C	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II			
		D	TS-H1303				TS-1356 II	TS-1346 II			
	5-series (7/95-)	C	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II			
		D	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II			
7-series (10/86-3/94)	C	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II				
	D	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II				
CITROEN	MINI (10/00-)	C	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II		UD-M177WW	
		D	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II			
	AX exc. HIT 3-door (8/91-9/96)	F	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II			
		F									
	AX exc. HIT 5-door (8/91-9/96)	A	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II			
		F									
	AX HIT 3-door (8/91-9/96)	F	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II			
		F									
	AX HIT 5-door (8/91-9/96)	A				TS-1376 II	TS-1356 II	TS-1346 II			
		A					TS-1356 II	TS-1346 II			
	BX (8/86-2/93)	A					TS-1356 II	TS-1346 II			
		A									
	Saxo 3-door (10/96-9/01)	A	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II			
		A									
Saxo 5-door (10/96-9/01)	A	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II				
	G	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II				
Xantia (3/92-12/00)	A	TS-H1703 (I)	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II				
	A										
	G	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II				
	A	TS-H1703	TS-H177								
XM 4-door (7/89-12/00)	A				TS-1785						
	E					TS-1376 II	TS-1356 II	TS-1346 II			
XM Break (1/92-12/00)	A	TS-H1703	TS-H177		TS-1785						
	A										
	E					TS-1356 II	TS-1346 II				
	E					TS-1756 II	TS-1746 II				
C3 (09/01-)	A					TS-1776 II					
	A				TS-1785 (I)						
C5 (01/01-)	A	TS-H1703 (I)	TS-H177		TS-1785 (I)	TS-1776 II	TS-1756 II	TS-1746 II			
	A										
	G	TS-H1703	TS-H177		TS-1785	TS-1776 II	TS-1756 II	TS-1746 II			
	G										
ZX Reflex/Avantage (4/91-9/97)	A	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II				
	A										
ZX Aura/Volcano (4/91-9/97)	A	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II				
	G	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II				
ZX 3-door (10/92-9/97)	A	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II				
	F	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II				
ZX Break (4/91-2/98)	A	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II				
	G	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II				
Xsara 5-door (10/97-)	A	TS-H1703 (I)	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II				
	A				TS-1785 (I)						
	G	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II				
	B					TS-1056 II	TS-1046 II				
Berlingo (10/96-9/02)	A					TS-1756 II	TS-1746 II				
	A										
Evasion (3/94-9/02)	A	TS-H1703 (I)	TS-H177		TS-1785 (I)	TS-1776 II	TS-1756 II	TS-1746 II			
	A										
	F	TS-H1703*	TS-H177*		TS-1785	TS-1776 II	TS-1756 II	TS-1746 II		*UD-M171	
	F										
C8 (10/02-)	A						TS-1756 II	TS-1746 II		UD-M171	
	A				TS-1785 (I)						
Xsara Break (3/98-)	A	TS-H1703 (I)	TS-H177		TS-1785 (I)	TS-1776 II	TS-1756 II	TS-1746 II			
	A										

CAR BRAND	MODEL & INTRODUCTION DATE	LOCATION	HIGH GRADE SEPARATE	HIGH GRADE CO-AXIAL	SEPARATE COMPONENT	3-WAY	2-WAY	DUAL CONE	SPEAKER INTERFACE KITS	SPEAKER ADAPTER PLATES
CITROËN	Xsara Break (3/98-)	G	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II		
		A	TS-H1703 (I)	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II		
	Picasso (12/99-)	F	TS-H1303	TS-H137	TS-1785 (I)	TS-1376 II	TS-1356 II	TS-1346 II		
		A	TS-H1703 (I)	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II		
DAIHATSU	Sirion (10/99-)	G	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II		
		A			TS-1785	TS-1776 II	TS-1756 II	TS-1746 II		UD-M171
		G			TS-1785	TS-1776 II	TS-1756 II	TS-1746 II		UD-M171
		A			TS-1785	TS-1776 II	TS-1756 II	TS-1746 II		UD-M171
DAEWOO	Matiz (3/99-)	A		TS-H107			TS-1056 II	TS-1046 II		
		F		TS-H467	TS-4638	TS-4628	TS-4621			
		A	TS-H1303	TS-H137	TS-1376 II	TS-1356 II	TS-1346 II			
		E		TS-H467	TS-4638	TS-4628	TS-4621			
FIAT	Coupé (12/93-)	A	TS-H1703	TS-H177	TS-1785	TS-1776 II	TS-1756 II	TS-1746 II		
		B		TS-H467	TS-4638	TS-4628	TS-4621			
		E		TS-H467	TS-4638	TS-4628	TS-4621			
		B		TS-H871		TS-876	TS-874		UD-M870	
	Punto (9/93-8/99)	B					TS-875			
		E		TS-H107		TS-1056 II	TS-1046 II			
		B		TS-H871		TS-876	TS-874		UD-M870	
		F				TS-875				
	Punto Cabrio (3/94-8/99)	B					TS-1056 II	TS-1046 II		
		E		TS-H107		TS-1056 II	TS-1046 II			
		B		TS-H871		TS-876	TS-874		UD-M870	
		F				TS-875				
	Punto (9/99-)	F	TS-H1704 (I)	TS-H467		TS-4638	TS-4628	TS-4621		
		A			TS-1785	TS-1776 II	TS-1756 II	TS-1746 II		
		B					TS-1056 II	TS-1046 II		
		B					TS-1056 II	TS-1046 II		
	Tempira (2/90-9/96)	B					TS-1056 II	TS-1046 II		
		E		TS-H107	TS-4638	TS-4628	TS-4621			
		B		TS-H107		TS-1056 II	TS-1046 II			
		E		TS-H107		TS-1056 II	TS-1046 II			
	Tempira Break (3/92-9/96)	B					TS-1056 II	TS-1046 II		
		E		TS-H107	TS-4638	TS-4628	TS-4621			
		B		TS-H107		TS-1056 II	TS-1046 II			
		E		TS-H107		TS-1056 II	TS-1046 II			
	Tipo (2/88-8/95)	B				TS-4638	TS-4628	TS-4621		
		E		TS-H107		TS-1056 II	TS-1046 II			
		B		TS-H107		TS-1056 II	TS-1046 II			
		E		TS-H107		TS-1056 II	TS-1046 II			
	Uno Series (9/89-8/93)	B					TS-1056 II	TS-1046 II		
		E		TS-H107		TS-1056 II	TS-1046 II			
		B		TS-H107		TS-1056 II	TS-1046 II			
		E		TS-H107		TS-1056 II	TS-1046 II			
	Seicento / 600 (9/97-)	B					TS-1056 II	TS-1046 II		
		E		TS-H107		TS-1056 II	TS-1046 II			
		B		TS-H107		TS-1056 II	TS-1046 II			
		E		TS-H107		TS-1056 II	TS-1046 II			
	Ulysse (3/94-9/02)	A	TS-H1703 (I)	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II		
		F	TS-H1703*	TS-H177*	TS-1785 (I)	TS-1776 II	TS-1756 II	TS-1746 II		*UD-M171
		F			TS-1785	TS-1776 II	TS-1756 II	TS-1746 II		UD-M171
		A					TS-1756 II	TS-1746 II		
	Ulysse (10/02-)	A					TS-1756 II	TS-1746 II		
		A			TS-1785 (I)	TS-1776 II	TS-1756 II	TS-1746 II		
		A			TS-1785	TS-1776 II	TS-1756 II	TS-1746 II		
		A			TS-1785	TS-1776 II	TS-1756 II	TS-1746 II		
FORD	Focus 3-doors (10/98-)	A		TS-H683						
		A		TS-H683						
		G		TS-H683						
		A	TS-H1703	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II		UD-M172
	Focus 4-75-doors (10/98-)	A		TS-H683						
		A		TS-H683						
		G		TS-H683						
		A	TS-H1703	TS-H177	TS-1785*	TS-1776 II	TS-1756 II	TS-1746 II		*UD-M172
	Mondeo (3/93-11/00)	A		TS-H683						
		A		TS-H683						
		G	TS-H1703	TS-H177	TS-1785*	TS-1776 II	TS-1756 II	TS-1746 II		*UD-M172
		G		TS-H683	TS-1785*					*UD-M172
	Mondeo (12/00-)	A		TS-H683						
		A		TS-H683						
		G		TS-H683						
		A			TS-1785	TS-1776 II	TS-1756 II	TS-1746 II		
	Galaxy (9/95-)	A				TS-1776 II	TS-1756 II	TS-1746 II		
		G			TS-1785	TS-1776 II	TS-1756 II	TS-1746 II		
		B								
		A			TS-1785	TS-1776 II	TS-1756 II	TS-1746 II		
	Fusion 5-door (3/03-)	A		TS-H683						
		B		TS-H683						
		A		TS-H683						
		G		TS-H683						
HONDA	Accord 4-door (9/89-2/93)	A				TS-1376 II	TS-1356 II	TS-1346 II		
		E		TS-H107		TS-1056 II	TS-1046 II			
		A	TS-H1703 (I3)	TS-H177 (I3)	TS-1785 (I3)	TS-1776 II (I3)	TS-1756 II (I3)	TS-1746 II (I3)		UD-M176OP
		G	TS-H1703 (I3)	TS-H177 (I3)	TS-1785 (I3)	TS-1776 II (I3)	TS-1756 II (I3)	TS-1746 II (I3)		UD-M176OP
HYUNDAI	Getz (10/02-)	A	TS-H1703 (4)	TS-H177 (4)	TS-1785 (4)	TS-1776 II (4)	TS-1756 II (4)	TS-1746 II (4)		
		A								
		B								
		E	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II		
	Pony 3-75-door (1/90-9/94)	B					TS-1056 II	TS-1046 II		
		C					TS-1056 II	TS-1046 II		
		B	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II		
		C	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II		
	S-coupé (1/90-12/96)	C		TS-H107			TS-1056 II	TS-1046 II		
		B					TS-1056 II	TS-1046 II		
		B					TS-1056 II	TS-1046 II		
		B					TS-1056 II	TS-1046 II		
JAGUAR	Lantra 4-75-door (3/98-)	A				TS-1376 II	TS-1356 II	TS-1346 II		
		A		TS-H683						
		E		TS-H683						
		S-type (3/99-)	A							
VAZ/LADA	Samara 3-door (1/86-12/99)	E	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II		
		A		TS-H467	TS-4638	TS-4628	TS-4621			
		E	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II		
		B	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II		
	Divla/Sagena (8/91-12/99)	E	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II		
		E	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II		
		B	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II		
		B	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II		
	2104	E	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II		
		B	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II		
		B	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II		
		B	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II		
	2109	B	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II		
		B	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II		
		B	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II		
		B	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II		
	2109P	B	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II		
		B	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II		
		B	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II		
		B	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II		
	2110	A	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II		
		A	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II		
		E	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II		
		E	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II		
	2111	A	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II		
		A	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II		
		E	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II		
		E	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II		
	2112	A	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II		
		A	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II		
		E	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II		
		E	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II		
VAZ/NIVA	2115	E	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II		
		E	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II		
		E	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II		
		E	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II		
	21213	E	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II		
		E	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II		
		E	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II		
		E	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II		
MOSKVICH/MOSKVICH	2141	B	TS-H1303	TS-H137		TS-1376 II				

CUSTOM-FIT SPEAKERS APPLICATION CHART

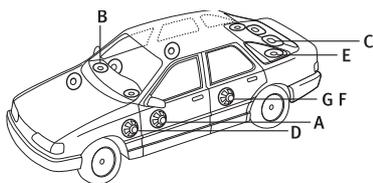


CAR BRAND	MODEL & INTRODUCTION DATE	LOCATION	HIGH GRADE SEPARATE	HIGH GRADE CO-AXIAL	SEPARATE COMPONENT	3-WAY	2-WAY	DUAL CONE	SPEAKER INTERFACE KITS	SPEAKER ADAPTER PLATES	
MAZDA	3.5-door (9/03-)	G		TS-H683							
	626 4-door (1/92-9/98)	A		TS-H683							
	626 5-door (1/92-9/98)	C		TS-H683							
	626 (10/98-)	A		TS-H683							
MERCEDES	190/190 E (W201) (1/83-5/93)	B		TS-H107			TS-1056 II	TS-1046 II			
	A-series (9/87-)	A	TS-H1703 (I)	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II		UD-M175MB	
		A			TS-1785 (I)					UD-M175MB	
	S/SE/SEL (W126) (1/80-2/91)	G	TS-H1303 (I)	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II		UD-M135MB	
MITSUBISHI	Vito (3/96-)	B		TS-H467		TS-4638	TS-4628	TS-4621			
	V-series (3/96-)	B		TS-H107			TS-1056 II	TS-1046 II			
	Galant 4-/5-door (1/96-)	A	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II			
	Spacestar (1/98-)	G		TS-H107		TS-1376 II	TS-1356 II	TS-1346 II			
NISSAN	Maxima (1/92-)	A		TS-H467		TS-4638	TS-4628	TS-4621			
	Primera exc. L 4-door (9/90-8/01)	C	TS-H1703	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II			
		C			TS-1785						
	Sunny L/LX 3-door (1/91-8/95)	A				TS-4638	TS-4628	TS-4621			
	Sunny SLX 3-door (1/91-8/95)	A				TS-4638	TS-4628	TS-4621			
	Sunny L/LX 4-door (1/91-8/95)	A				TS-4638	TS-4628	TS-4621			
	Sunny SLX 4-door (1/91-8/95)	A				TS-4638	TS-4628	TS-4621			
		C	TS-H1703	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II			
		C			TS-1785						
	Sunny SLX 4-door (1/91-8/95)	A				TS-4638	TS-4628	TS-4621			
	Sunny L/LX 5-door (1/91-8/95)	A				TS-4638	TS-4628	TS-4621			
	Sunny SLX 5-door (1/91-8/95)	A				TS-4638	TS-4628	TS-4621			
	Sunny Wagon LX (1/91-8/95)	A				TS-4638	TS-4628	TS-4621			
	Nissan Wagon SLX (1/91-8/95)	A				TS-4638	TS-4628	TS-4621			
	100 NX (2/91-12/96)	A				TS-4638	TS-4628	TS-4621			
	100 NX Gh (2/91-12/96)	A				TS-4638	TS-4628	TS-4621			
	200 SX (9/88-3/94)	A				TS-4638	TS-4628	TS-4621			
	300 ZX (9/89-6/97)	E			TS-H467		TS-4638	TS-4628	TS-4621		
	Micra 5door (10/02-)	A	TS-H1703 *		TS-H177 *		TS-1776 II	TS-1756 II	TS-1746 II		*UD-M1760P
	OPEL/VAUXHALL		G	TS-H1703	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II		
					TS-1785						
Astra 3-/5-door (9/91-9/97)		E	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II			
Astra 4-door (6/92-9/97)		C	TS-H1703	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II			
		C			TS-1785						
Astra 3-door (10/97-)		A	TS-H1703 (I)	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II			
		A			TS-1785 (I)				AD-EU8005	UD-M1760P	
		F	TS-H1703	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II		UD-M1760P	
Frontiera (6/91-)		F			TS-1785				AD-EU8005		
Omega (4/94-)		A	TS-H1703	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II		UD-M1760P	
		A			TS-1785				AD-EU8005	UD-M1760P	
Tigra (11/95-)		A					TS-1756 II	TS-1746 II			
		A			TS-1785				AD-EU8005		
Vectra (9/95-2/02)		A	TS-H1303	TS-H137		TS-1376 II*	TS-1356 II*	TS-1346 II*	*AD-EU8005		
		A				TS-1776 II	TS-1756 II	TS-1746 II		UD-M1760P	
		A			TS-1785				AD-EU8005	UD-M1760P	
Vectra (3/02-)		A	TS-H1703	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II		UD-M1760P	
		G			TS-1785				AD-EU8005	UD-M1760P	
		A	TS-H1703	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II		UD-M1760P	
		G			TS-1785				AD-EU8005	UD-M1760P	
Zafira (3/99-)	A			TS-1785		TS-1776 II	TS-1756 II	TS-1746 II			
	A			TS-1785				AD-EU8005	UD-M1760P		
	G	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II		UD-M1760P		
Aquila (2/01-)	B					TS-1056 II	TS-1046 II		UD-M131		
	K					TS-1056 II	TS-1046 II				
Meriva 5-door (10/02-)	A	TS-H1703	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II		AD-EU8005	UD-M1760P	
	G	TS-H1703	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II		AD-EU8005	UD-M1760P	
PEUGEOT		G	TS-H1703	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II		UD-M1760P	
					TS-1785				AD-EU8005	UD-M1760P	
	106 XR/MN 3-door (9/91-)	A	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II			
	106 XT/XSI 3-door (9/91-)	A	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II			
		F			TS-H107		TS-1056 II	TS-1046 II			
	106 5-door (9/92-)	A	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II			
		G	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II			
	205 3-/5-door (9/83-7/98)	A	TS-H1303	TS-H137			TS-1356 II	TS-1346 II			
		H					TS-1356 II	TS-1346 II			
	206 Series (8/98-)	A	TS-H1704 (I)			TS-1776 II	TS-1756 II	TS-1746 II			
		A			TS-1785						
	306 X/NXS/XT (8/93-2/01)	F,G	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II			
		A				TS-1776 II	TS-1756 II	TS-1746 II			
	307 (03/01-)	A			TS-1785						
		A	TS-H1703 (I)	TS-H177		TS-1776	TS-1756	TS-1746		UD-M171	
		A			TS-1785 (I)					UD-M171	
		B	TS-H1303				TS-1356 II	TS-1346 II			
	309 3-/5-door (11/85-7/93)	A	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II			
		H					TS-1356 II	TS-1346 II			
	405 (6/87-5/92)	A	TS-H1703*	TS-H177*		TS-1776 II	TS-1756 II	TS-1746 II		UD-M171	
	A			TS-1785							
405 (6/92-5/95)	A	TS-H1703	TS-H177			TS-1756 II	TS-1746 II		UD-M171		
	A			TS-1785					UD-M171		
406 (6/95-)	A	TS-H1703 (I)	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II				
	A			TS-1785 (I)							
406 Coupe (6/96-)	A	TS-H1703 (I)	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II				
	A			TS-1785 (I)							
605 (9/89-9/99)	A	TS-H1703	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II				
	A			TS-1785							
	G	TS-H1703	TS-H177			TS-1756 II	TS-1746 II		UD-M171		
	G			TS-1785					UD-M171		
806 (3/94-9/02)	A	TS-H1703* (I)	TS-H177*		TS-1776 II	TS-1756 II	TS-1746 II		*UD-M171		
	A			TS-1785 (I)							
	F	TS-H1703	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II		UD-M171		
	F			TS-1785 (I)					UD-M171		
807 (10/02-)	F			TS-1785		TS-1756 II	TS-1746 II				
Partner (10/97-9/02)	B					TS-1056 II	TS-1046 II				
Partner (10/02-)	A			TS-H107		TS-1056 II	TS-1046 II				
RENAULT	Clio (5/90-2/98)	B			TS-1785 (I)		TS-1756 II	TS-1746 II			

CAR BRAND	MODEL & INTRODUCTION DATE	LOCATION	HIGH GRADE SEPARATE	HIGH GRADE CO-AXIAL	SEPARATE COMPONENT	3-WAY	2-WAY	DUAL CONE	SPEAKER INTERFACE KITS	SPEAKER ADAPTER PLATES	
RENAULT	Clio II 3-door (3/98-)	E		TS-H107			TS-1056 II	TS-1046 II			
		A	TS-H1303	TS-H137		TS-1376 II*	TS-1356 II*	TS-1346 II*	*AD-EU8005		
		F	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II			
	Clio II exc. RXE 5-door (3/98-)	A	TS-H1303	TS-H137		TS-1376 II	TS-1356 II*	TS-1346 II*	*AD-EU8005		
		A	TS-H1303	TS-H137		TS-1376 II*	TS-1356 II*	TS-1346 II*	*AD-EU8005		
		G	TS-H1303 (13)	TS-H137 (13)		TS-1376 II* (13)	TS-1356 II* (13)	TS-1346 II* (13)	*AD-EU8005		
	Twingo II (10/98-)	B			TS-H107			TS-1056 II	TS-1046 II	AD-EU8005	
		A				TS-1376 II	TS-1356 II	TS-1346 II			
		B					TS-1056 II	TS-1046 II	AD-EU8005	UD-M101	
	19 RL/RN (4/92-8/95)	E	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II			
		A	TS-H1703	TS-H177				TS-1746 II			
		A			TS-1785				AD-EU8005	UD-M101	
	19 Chamade exc. RL/LN (4/92-8/95)	E	TS-H1303	TS-H137		TS-1376 II*	TS-1356 II*	TS-1346 II*	*AD-EU8005		
		A	TS-H1703	TS-H177				TS-1746 II			
		A			TS-1785				AD-EU8005	UD-M101	
	19 Chamade RL/RN (4/92-8/95)	B			TS-H107		TS-1056 II	TS-1046 II	AD-EU8005	UD-M101	
		B			TS-H107		TS-1056 II	TS-1046 II	AD-EU8005	UD-M101	
		A	TS-H1703	TS-H177				TS-1746 II			
	19 Cabrio (4/92-4/97)	A				TS-1785			AD-EU8005	UD-M101	
		B					TS-1056 II	TS-1046 II	AD-EU8005	UD-M101	
		F					TS-1056 II	TS-1046 II			
	Mégane RL/RN 5-door (9/95-9/02)	A	TS-H1303 (1)	TS-H137		TS-1376 II*	TS-1356 II*	TS-1346 II*	*AD-EU8005		
		E	TS-H1303	TS-H137		TS-1376 II*	TS-1356 II*	TS-1346 II*	*AD-EU8005		
		A	TS-H1703 (1)	TS-H177				TS-1746 II			
	Mégane RT 5-door (9/95-9/02)	A	TS-H1303 (1)	TS-H137		TS-1376 II*	TS-1356 II*	TS-1346 II*	*AD-EU8005		
		A			TS-1785 (1)				AD-EU8005		
		E	TS-H1303	TS-H137		TS-1376 II*	TS-1356 II*	TS-1346 II*	*AD-EU8005		
	Mégane (10/02-)	A	TS-H1303 (12/13)	TS-H137 (12/13)		TS-1376 II (12/13)	TS-1356 II (12/13)	TS-1346 II (12/13)	*AD-EU8005		
		A	TS-H1703 (1)	TS-H177				TS-1746 II			
		A			TS-1785 (1)				AD-EU8005		
	Mégane Classic (9/95-9/02)	C	TS-H1303 (3)	TS-H137 (3)		TS-1376 II (3)*	TS-1356 II (3)*	TS-1346 II (3)*	*AD-EU8005		
		A	TS-H1703 (1)	TS-H177				TS-1746 II			
		A			TS-1785 (1)				AD-EU8005		
	Mégane Coupé (9/95-9/02)	A	TS-H1303 (3)	TS-H137 (3)		TS-1376 II (3)*	TS-1356 II (3)*	TS-1346 II (3)*	*AD-EU8005		
		A	TS-H1703 (1)	TS-H177				TS-1746 II			
		A			TS-1785 (1)				AD-EU8005		
	Mégane Scénic (10/96-6/03)	C	TS-H1303	TS-H137		TS-1376 II*	TS-1356 II*	TS-1346 II*	*AD-EU8005		
		A	TS-H1303 (1)	TS-H137		TS-1376 II*	TS-1356 II*	TS-1346 II*	*AD-EU8005		
		A			TS-1384 (1)				AD-EU8005		
	Mégane Break (6/99-6/03)	E	TS-H1303	TS-H137		TS-1376 II*	TS-1356 II*	TS-1346 II*	*AD-EU8005		
		E				TS-1384			AD-EU8005		
		A	TS-H1303 (1)	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II	AD-EU8005		
	Laguna (11/94-9/99)	A	TS-H1703 (1)	TS-H177				TS-1746 II			
		A			TS-1785 (1)				AD-EU8005		
		E	TS-H1703 (4)	TS-H177 (4)		TS-1776 II (4)	TS-1756 II (4)	TS-1746 II (4)			
Laguna Break (9/95-9/99)	E			TS-1785 (4)				AD-EU8005			
	A	TS-H1703 (1)	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II				
	A			TS-1785 (1)				AD-EU8005			
Laguna series (10/99-)	K					TS-1056 II	TS-1046 II				
	A	TS-H1303 (12)	TS-H137 (12)		TS-1376 II (12)*	TS-1356 II (12)*	TS-1346 II (12)*	*AD-EU8005			
	G	TS-H1303 (12)	TS-H137 (12)		TS-1376 II (12)*	TS-1356 II (12)*	TS-1346 II (12)*	*AD-EU8005			
Safrane (3/92-10/01)	A	TS-H1703 (1)	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II				
	A			TS-1785 (1)				AD-EU8005			
	G	TS-H1703	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II				
Kangoo (9/97-)	B			TS-1785				AD-EU8005			
	E			TS-H107		TS-1056 II	TS-1046 II	AD-EU8005			
	E			TS-H107		TS-1056 II	TS-1046 II	AD-EU8005			
Kangoo Express (9/97-)	B			TS-H107		TS-1056 II	TS-1046 II	AD-EU8005			
	B	TS-H1703 (1)	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II				
	B			TS-1785 (1)				AD-EU8005			
Espace (5/91-1/97)	H	TS-H1703	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II				
	H			TS-1785 (1)				AD-EU8005			
	G	TS-H1303 (12)	TS-H137 (12)		TS-1376 II (12/13)	TS-1356 II (12/13)	TS-1346 II (12/13)	*AD-EU8005			
Espace (11/02-)	A				TS-1376 II (12)	TS-1356 II (12)	TS-1346 II (12)	*AD-EU8005			
	G	TS-H1303 (12)	TS-H137 (12)		TS-1376 II (12)*	TS-1356 II (12)*	TS-1346 II (12)*	*AD-EU8005			
	A							AD-EU8005			
ROVER	Velisette (10/01-)	A					TS-1356 II	TS-1346 II			
		E		TS-H107		TS-1056 II	TS-1046 II				
		E		TS-H107		TS-1056 II	TS-1046 II				
	100 (Metro)-series 3-door (6/90-12/98)	E		TS-H107				TS-1056 II	TS-1046 II		
		E		TS-H107				TS-1056 II	TS-1046 II		
		A	TS-H1703 (1)	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II			
	214/216 5-door (1/90-9/95)	A			TS-1785 (1)				AD-EU8005		
		E	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II			
		E	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II			
	216 Gti 3-door (7/90-9/95)	A	TS-H1703	TS-H177				TS-1746 II			
		A			TS-1785				AD-EU8005		
		E	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II			
	414/416-series (4/90-1/96)	A	TS-H1703	TS-H177				TS-1746 II			
		A			TS-1785				AD-EU8005		
		E	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II			
SAAB	900 (9/93-8/97)	B		TS-H871			TS-876	TS-874			
		B		TS-H107			TS-1056 II	TS-1046 II			
		B		TS-H107			TS-1056 II	TS-1046 II			
9000 CS (10/84-9/97)	A	TS-H1710 (1)	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II		UD-M177WW		
	A	TS-H1703	TS-H177				TS-1746 II		UD-M177WW		
	B		TS-H107			TS-1056 II	TS-1046 II				
SEAT	Arosa (10/97-)	A			TS-1785				AD-EU8005		
		B		TS-H107		TS-1056 II	TS-1046 II				
		A	TS-H1710 (1)	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II		UD-M177WW	
	Cordoba (10/93-10/99)	A	TS-H1710 (1)	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II			
		A	TS-H1703	TS-H177				TS-1746 II		AD-EU8005	
		B		TS-H107			TS-1056 II	TS-1046 II		AD-EU8005	
	Ibiza GL Junior 3-5-door (1/89-4/93)	C				TS-4638	TS-4628	TS-4621			
		E		TS-H467		TS-4638	TS-4628	TS-4621			
		A	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II			
	Ibiza 3-door (1/89-4/93)	A		TS-H107			TS-1056 II	TS-1046 II			
		E		TS-H467		TS-4638	TS-4628	TS-4621			
		A	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II			
	Ibiza 5-door (1/89-4/93)	A		TS-H107			TS-1056 II	TS-1046 II			
		E		TS-H467		TS-4638	TS-4628	TS-4621			
		A	TS-H1710 (1)	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II			
	Ibiza (4/93-5/99)	A	TS-H1703	TS-H177				TS-1746 II			
		A			TS-1785				AD-EU8005		
		B		TS-H107			TS-1056 II	TS-1046 II		AD-EU8005	
	Ibiza 3-door (1/02-)	E		TS-H467		TS-4638	TS-4628	TS-4621		AD-EU8005	
		A	TS-H1703 (1)	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II			
		A			TS-1785 (1)				AD-EU8005		
	Ibiza 5-door (1/02-)	A	TS-H1703 (1)	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II		UD-M177WW	
		A			TS-1785 (1)				AD-EU8005	UD-M177WW	
		G	TS-H1703 (1)	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II		UD-M174WW	
	Leon (9/99-)	G			TS-1785 (1)				AD-EU8005	UD-M174WW	
A		TS-H1703	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II		UD-M174WW		
G		TS-H1703	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II		UD-M174WW		
Toledo (5/91-9/98)	G			TS-1785				AD-EU8005	UD-M174WW		
	B		TS-H871			TS-876	TS-874				
	E		TS-H467		TS-4638	TS-4628	TS-4621				
Toledo (10/98-)	A	TS-H1703 (1)	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II		UD-M174WW		
	A			TS-1785 (1)				AD-EU8005	UD-M174WW		
	G	TS-H1703 (1)	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II		UD-M174WW		

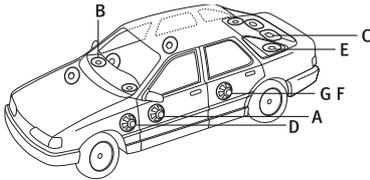
Location: A: Front Door B: Dual Dash C: Rear Deck D: Kick Panel E: Rear Side Shelf F: Rear Seat Side G: Rear Door H: Rear Pillar I: Hatch Door J: Rear Panel K: Rear Ceiling
 (1) Tweeter fits original location, (2) Need to make 2 screw holes on the original speaker location, (3) Original 13 cm speaker adapter required, (4) Original 17 cm adapter required, (5) Original 17 cm speaker location required, (6) High-range unit fits original location, (7) Front door pocket with 17 cm speaker location required, (8) Rear door pocket with 17 cm speaker location required, (9) Drill holes to fix the speaker, (10) 5-door, (11) In case original speaker plates are provided (12) Modify speaker frame, (13) Stee cut or some modification.
 All mounting proposals and measurements contained in this guide have been checked. However, due to continual modification of certain car models, we cannot guarantee the complete accuracy of all statements, technical information and recommendations. For that reason, a thorough inspection of the mounting area should be made before proceeding with installation.

CUSTOM-FIT SPEAKERS APPLICATION CHART



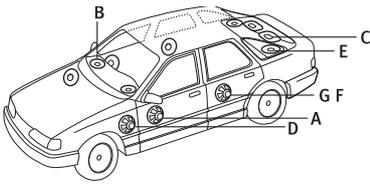
CAR BRAND	MODEL & INTRODUCTION DATE	LOCATION	HIGH GRADE SEPARATE	HIGH GRADE CO-AXIAL	SEPARATE COMPONENT	3-WAY	2-WAY	DUAL CONE	SPEAKER INTERFACE KITS	SPEAKER ADAPTER PLATES	
SEAT	Alhambra (9/95-)	A				TS-1776 II	TS-1756 II	TS-1746 II			
		A			TS-1785				AD-EU800S		
		G			TS-1785	TS-1776 II	TS-1756 II	TS-1746 II			
SKODA	Fabia (9/99-)	A				TS-1776 II	TS-1756 II	TS-1746 II			
		A			TS-1785 (I)				AD-EU800S		
		A			TS-1785 (I)					UD-M177WW	
		E	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II			
		A				TS-1376 II	TS-1356 II	TS-1346 II			
SKODA	Felicia (10/94-)	A				TS-1376 II	TS-1356 II	TS-1346 II			
		C	TS-H1703 (11)	TS-H177 (11)			TS-1756 II (11)	TS-1746 II (11)			
		C			TS-1785 (11)						
SKODA	Octavia 5-door (9/96-)	A					TS-1756 II	TS-1746 II			
		A			TS-1785						
		E					TS-1356 II	TS-1346 II			
SKODA	Octavia Break (9/96-)	A					TS-1756 II	TS-1746 II			
		A			TS-1785						
		E					TS-1356 II	TS-1346 II			
TOYOTA	Yaris (01/99-)	A			TS-1785						
		E				TS-4638	TS-4628	TS-4621			
		A	TS-H1703	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II		UD-M171	
		B					TS-1056 II	TS-1046 II			
		B			TS-H107			TS-1056 II	TS-1046 II		
		B			TS-H107			TS-1056 II	TS-1046 II		
		B			TS-H107			TS-1056 II	TS-1046 II		
		B			TS-H107			TS-1056 II	TS-1046 II		
		B			TS-H107			TS-1056 II	TS-1046 II		
		B			TS-H107			TS-1056 II	TS-1046 II		
SUBARU	Vivio (3/92-12/00)	A	TS-H1703	TS-H177							
		B									
		B			TS-H107						
		B			TS-H107						
		B			TS-H107						
		B			TS-H107						
		B			TS-H107						
		B			TS-H107						
		B			TS-H107						
		B			TS-H107						
SUZUKI	Swift Cabrio (1/92-12/00)	A									
		B			TS-H107						
		B			TS-H107						
		B			TS-H107						
		B			TS-H107						
		B			TS-H107						
		B			TS-H107						
		B			TS-H107						
		B			TS-H107						
		B			TS-H107						
VOLVO	Vitara 3-door (2/91-12/96)	A	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II			
		B					TS-1056 II	TS-1046 II			
		C	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II			
		A	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II			
		B					TS-1056 II	TS-1046 II			
		H	TS-H1303	TS-H137			TS-1356 II	TS-1346 II			
		A	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II			
		A	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II			
		B					TS-876	TS-874			
		A					TS-1356 II	TS-1346 II			
VOLVO	S40 (9/95-)	A	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II			
		B					TS-1056 II	TS-1046 II			
		C	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II			
		A	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II			
		B					TS-1056 II	TS-1046 II			
		H	TS-H1303	TS-H137			TS-1356 II	TS-1346 II			
		A	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II			
		A	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II			
		B					TS-876	TS-874			
		A					TS-1356 II	TS-1346 II			
VOLVO	V40 (9/95-)	A	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II			
		B					TS-1056 II	TS-1046 II			
		C	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II			
		A	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II			
		B					TS-1056 II	TS-1046 II			
		H	TS-H1303	TS-H137			TS-1356 II	TS-1346 II			
		A	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II			
		A	TS-H1303	TS-H137		TS-1376 II	TS-1356 II	TS-1346 II			
		B					TS-876	TS-874			
		A					TS-1356 II	TS-1346 II			
VW	Corrado (10/88-12/95)	A									
		B			TS-H107						
		E				TS-4638	TS-4628	TS-4621			
		B					TS-1056 II	TS-1046 II			
		E			TS-H871			TS-4621			
		B			TS-H467			TS-874			
		E			TS-H467		TS-4638	TS-4628	TS-4621		
		A	TS-H1710 (1)	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II			
		A	TS-H1703		TS-1785					AD-EU800S	
		B			TS-H107			TS-1056 II	TS-1046 II		
VW	Golf Variant CL (9/93-9/99)	A	TS-H1710 (1)	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II			
		A	TS-H1703		TS-1785					AD-EU800S	
		B			TS-H107			TS-1056 II	TS-1046 II		
		G	TS-H1703	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II			
		G			TS-1785						
		G					TS-1056 II	TS-1046 II			
		A	TS-H1710 (1/7)	TS-H177 (7)		TS-1776 II (7)	TS-1756 II (7)	TS-1746 II (7)			
		A	TS-H1703 (7)		TS-1785 (7)						
		B			TS-H107			TS-1056 II	TS-1046 II		
		A	TS-H1703 (7)		TS-1785 (7)						
VW	Golf III 3-door (11/91-9/97)	A	TS-H1710 (1/7)	TS-H177 (7)		TS-1776 II (7)	TS-1756 II (7)	TS-1746 II (7)			
		A	TS-H1703 (7)		TS-1785 (7)						
		B			TS-H107			TS-1056 II	TS-1046 II		
		A	TS-H1703 (7)		TS-1785 (7)						
		B			TS-H107			TS-1056 II	TS-1046 II		
		G	TS-H1703 (5)	TS-H177 (5)		TS-1776 II (5)	TS-1756 II (5)	TS-1746 II (5)			
		G			TS-1785 (5)						
		A	TS-H1710 (11)	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II			
		A	TS-H1703		TS-1785						
		B			TS-H107			TS-1056 II	TS-1046 II		
VW	Golf II 3/5-door (8/83-10/91)	A	TS-H1703								
		B									
		E			TS-H467		TS-4638	TS-4628	TS-4621		
		B			TS-H107			TS-1056 II	TS-1046 II		
		E			TS-H467		TS-4638	TS-4628	TS-4621		
		A	TS-H1710 (1)	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II			
		A	TS-H1703		TS-1785					AD-EU800S	
		B			TS-H107			TS-1056 II	TS-1046 II		
		G	TS-H1703	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II		AD-EU800S	
		G			TS-1785						
VW	Golf III 5-door (11/91-9/97)	A	TS-H1710 (1/7)	TS-H177 (7)		TS-1776 II (7)	TS-1756 II (7)	TS-1746 II (7)			
		A	TS-H1703 (7)		TS-1785 (7)						
		B			TS-H107			TS-1056 II	TS-1046 II		
		A	TS-H1703 (7)		TS-1785 (7)						
		B			TS-H107			TS-1056 II	TS-1046 II		
		G	TS-H1703 (5)	TS-H177 (5)		TS-1776 II (5)	TS-1756 II (5)	TS-1746 II (5)			
		G			TS-1785 (5)						
		A	TS-H1710 (11)	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II			
		A	TS-H1703		TS-1785						
		B			TS-H107			TS-1056 II	TS-1046 II		
VW	Vento (1/92-9/98)	A	TS-H1710 (11)	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II			
		A	TS-H1703		TS-1785						
		B			TS-H107			TS-1056 II	TS-1046 II		
		G	TS-H1703	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II			
		G			TS-1785						
		A	TS-H1710 (11)	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II			
		A	TS-H1703		TS-1785						
		B			TS-H107			TS-1056 II	TS-1046 II		
		G	TS-H1703	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II			
		G			TS-1785						
VW	Golf IV 3-door (10/97-9/03)	A	TS-H1703 (1)	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II		UD-M174WW	
		A			TS-1785 (1)					UD-M174WW	
		A	TS-H1703 (1)	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II		UD-M174WW	
		A			TS-1785 (1)					UD-M174WW	
		G	TS-H1703 (1)	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II		UD-M174WW	
		G			TS-1785 (1)					UD-M174WW	
		A	TS-H1703 (1)	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II		UD-M174WW	
		A			TS-1785 (1)					UD-M174WW	
		G	TS-H1703 (1)	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II		UD-M174WW	
		G			TS-1785 (1)					UD-M174WW	
VW	Bora (10/98-)	A	TS-H1703 (1)	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II		UD-M174WW	
		A			TS-1785 (1)					UD-M174WW	
		G	TS-H1703 (1)	TS-H177		TS-1776 II	TS-1756 II	TS-1746 II		UD-M174WW	
		G			TS-1785 (1)						

UNIVERSAL SPEAKERS APPLICATION CHART FOR ORIGINAL SPEAKER LOCATION



CAR BRAND	MODEL & INTRODUCTION	LOCATION	EUR REF. SEPARATE COMPO SERIES	E-MOTION SEPARATE COMPO SERIES	E-MOTION 3-WAY SERIES	E-MOTION 2-WAY SERIES	A-CCELERATE SEPARATE COMPO SERIES	A-CCELERATE 4-WAY	A-CCELERATE 3-WAY	A-CCELERATE 2-WAY	G-SERIES 2-WAY	G-SERIES DUAL CONE	SPEAKER INTERFACE KITS	SPEAKER ADAPTER PLATES	
ALFA ROMEO	Alfa 145 (9/94-4/01)	A	TS-C1700R * (1)	TS-E176C * (1)		TS-E1776	TS-A171C * (1)		TS-A1710*		TS-G1748	TS-G1778		*UD-M171	
		F	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C		TS-A1310		TS-G1348	TS-G1318			
	Alfa 146 (9/95-4/01)	A	TS-C1700R * (1)	TS-E176C * (1)		TS-E1776	TS-A171C * (1)		TS-A1710*		TS-G1748	TS-G1778		*UD-M171	
		G				TS-E1776	TS-A171C		TS-A1710		TS-G1748	TS-G1778			
	Alfa 155 (3/92-9/97)	C	TS-C1700R	TS-E176C			TS-A171C		TS-A1710		TS-G1748	TS-G1778		UD-M171	
	Alfa 156 (9/97-)	A	TS-C1700R*	TS-E176C*	TS-E1796*	TS-E1776	TS-A171C*		TS-A1710*		TS-G1748	TS-G1778		*UD-M171	
		G	TS-C1700R*	TS-E176C*	TS-E1796*	TS-E1776	TS-A171C*		TS-A1710*		TS-G1748	TS-G1778		*UD-M171	
		C			TS-E6996				TS-A6910	TS-A6900		TS-G1748	TS-G1778		
	166-super (3/92-9/98)	A	TS-C1700R	TS-E176C			TS-A171C		TS-A1710		TS-G1748	TS-G1778			
	166 (10/98-)	A							TS-A6910	TS-A6900		TS-G1748	TS-G1778		
	G									TS-G1748	TS-G1778				
	C	TS-C1700R	TS-E176C	TS-E1796	TS-E1776	TS-A171C		TS-A1710		TS-G1748	TS-G1778				
AUDI	A4 4-door (1/01-)	A	TS-C1700R	TS-E176C	TS-E1796	TS-E1776	TS-A171C		TS-A1710		TS-G1748	TS-G1778		UD-M174W	
		G	TS-C1700R	TS-E176C	TS-E1796	TS-E1776	TS-A171C		TS-A1710		TS-G1748	TS-G1778		UD-M174W	
	A6 (3/97-)	A				TS-E1776	TS-A171C		TS-A1710		TS-G1748	TS-G1778			
		G		TS-E176C	TS-E1796	TS-E1776	TS-A171C		TS-A1710		TS-G1748	TS-G1778			
BMW	111 (10/98-)	A	TS-C1700R	TS-E176C	TS-E1796	TS-E1776	TS-A171C		TS-A1710		TS-G1748	TS-G1778			
	3-series 2-door (10/85-1/92)	D	TS-C1300R	TS-E136C			TS-A131C		TS-A1310		TS-G1348	TS-G1318			
	3 Touring (1/86-4/00)	E	TS-C1300R	TS-E136C			TS-A131C		TS-A1310		TS-G1348	TS-G1318			
		D				TS-E1076					TS-G1048	TS-G1018			
	3-series 4-door (12/90-2/98)	D	TS-C1300R	TS-E136C			TS-A131C		TS-A1310		TS-G1348	TS-G1318			
	3-series coupé (1/92-1/99)	D	TS-C1300R	TS-E136C			TS-A131C		TS-A1310		TS-G1348	TS-G1318			
	3-series compact (5/94 - 10/00)	D	TS-C1300R	TS-E136C			TS-A131C		TS-A1310		TS-G1348	TS-G1318			
	5-series (1/88-4/95)	D	TS-C1300R	TS-E136C			TS-A131C		TS-A1310		TS-G1348	TS-G1318			
		C	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C		TS-A1310		TS-G1348	TS-G1318			
	5-series (7/95-)	D	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C		TS-A1310		TS-G1348	TS-G1318			
		C	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C		TS-A1310		TS-G1348	TS-G1318			
	7-series (10/86-3/94)	D	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C		TS-A1310		TS-G1348	TS-G1318			
	C	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C		TS-A1310		TS-G1348	TS-G1318				
MINI (10/00-)	A	TS-C1700R	TS-E176C	TS-E1796	TS-E1776	TS-A171C		TS-A1710		TS-G1748	TS-G1778		UD-M177W		
	F									TS-A6900					
CITROEN	AX series 3-door (8/91-9/96)	F	TS-C1300R	TS-E136C		TS-E1376	TS-A131C				TS-G1348	TS-G1318			
	AX series 5-door (8/91-9/96)	A									TS-G1348	TS-G1318			
	BX (8/86-2/93)	A	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C		TS-A1310		TS-G1348	TS-G1318			
	Savo 3-door (10/96-9/01)	A	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C		TS-A1310		TS-G1348	TS-G1318			
	Savo 5-door (10/96-9/01)	A	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C		TS-A1310		TS-G1348	TS-G1318			
		G	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C		TS-A1310		TS-G1348	TS-G1318			
	Xantia (3/92-12/00)	A	TS-C1700R (1)	TS-E176C (1)	TS-E1796	TS-E1776	TS-A171C (1)		TS-A1710		TS-G1748	TS-G1778			
		G	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C		TS-A1310		TS-G1348	TS-G1318			
	XM 4-door (7/89-12/00)	A	TS-C1700R	TS-E176C			TS-A171C				TS-G1348	TS-G1318			
		E									TS-G1348	TS-G1318			
	XM Break (1/92-12/00)	A	TS-C1700R	TS-E176C			TS-A171C				TS-G1348	TS-G1318			
		E									TS-G1348	TS-G1318			
	ZX Reflex Avantage (4/91-9/97)	A	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C		TS-A1310		TS-G1348	TS-G1318			
	ZX Aural/Voicane (4/91-9/97)	A	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C		TS-A1310		TS-G1348	TS-G1318			
		G	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C		TS-A1310		TS-G1348	TS-G1318			
	ZX 3-door (10/92-9/97)	A	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C		TS-A1310		TS-G1348	TS-G1318			
		F	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C		TS-A1310		TS-G1348	TS-G1318			
	ZX Break (1/94-2/98)	A	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C		TS-A1310		TS-G1348	TS-G1318			
		G	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C		TS-A1310		TS-G1348	TS-G1318			
	Xsara (10/97-)	A	TS-C1700R (1)	TS-E176C (1)	TS-E1796	TS-E1776	TS-A171C (1)		TS-A1710		TS-G1748	TS-G1778			
	Xsara 5-door (10/97-)	A	TS-C1700R (1)	TS-E176C (1)	TS-E1796	TS-E1776	TS-A171C (1)		TS-A1710		TS-G1748	TS-G1778			
		G	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C		TS-A1310		TS-G1348	TS-G1318			
	Xsara Break (3/98-)	A	TS-C1700R (1)	TS-E176C (1)	TS-E1796	TS-E1776	TS-A171C (1)		TS-A1710		TS-G1748	TS-G1778			
		G	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C		TS-A1310		TS-G1348	TS-G1318			
	Xsara Coupé (10/98-)	A	TS-C1300R (1)	TS-E136C (1)	TS-E1396	TS-E1376	TS-A131C		TS-A1310		TS-G1348	TS-G1318			
		F	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C		TS-A1310		TS-G1348	TS-G1318			
	Picasso (12/99-)	A	TS-C1700R (1)	TS-E176C (1)	TS-E1796	TS-E1776	TS-A171C (1)		TS-A1710		TS-G1748	TS-G1778			
		G									TS-G1748	TS-G1778			
		G	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C		TS-A1310		TS-G1348	TS-G1318			
	Berlingo (10/96-9/02)	B				TS-E1076					TS-G1048	TS-G1018			
Berlingo (10/02-)	A									TS-G1748	TS-G1778				
Evasion (3/94-9/02)	A	TS-C1700R (1)	TS-E176C (1)	TS-E1796	TS-E1776	TS-A171C (1)		TS-A1710		TS-G1748	TS-G1778				
	F	TS-C1700R *	TS-E176C *	TS-E1796 *	TS-E1776	TS-A171C *		TS-A1710 *		TS-G1748	TS-G1778		*UD-M171		
C3 (09/01-)	A				TS-E1776					TS-G1748	TS-G1778				
C5 (01/01-)	A	TS-C1700R (1)	TS-E176C (1)	TS-E1796	TS-E1776	TS-A171C (1)		TS-A1710		TS-G1748	TS-G1778				
	G	TS-C1700R	TS-E176C	TS-E1796	TS-E1776	TS-A171C		TS-A1710		TS-G1748	TS-G1778				
C8 (10/02-)	A									TS-G1748	TS-G1778				
DAEWOO	Tacuma (10/00-)	A	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C		TS-A1310		TS-G1348	TS-G1318			
	Coupé (12/93-)	A	TS-C1700R	TS-E176C	TS-E1796	TS-E1776	TS-A171C		TS-A1710		TS-G1748	TS-G1778			
	Punto (9/93-8/99)	E				TS-E1076				TS-G1048	TS-G1018				
	Punto 3-/5-door (9/99-)	A				TS-E1776 (2)				TS-G1748 (2)	TS-G1778 (2)				
	Tipo (2/88-8/95)	E				TS-E1076				TS-G1048	TS-G1018				
	500 (4/92-9/98)	B									TS-G1018	TS-G1018			
	Seicento / 600 (9/97-)	B									TS-G1018	TS-G1018			
	Ulyesse (3/94-9/02)	A	TS-C1700R (1)	TS-E176C (1)	TS-E1796	TS-E1776	TS-A171C (1)		TS-A1710		TS-G1748	TS-G1778		*UD-M171	
		F	TS-C1700R *	TS-E176C *	TS-E1796 *	TS-E1776	TS-A171C *		TS-A1710 *		TS-G1748	TS-G1778			
	Ulyesse (10/02-)	A				TS-E1776					TS-G1748	TS-G1778			
Multipla (3/98-)	A				TS-E1776 *					TS-G1748	TS-G1778		*UD-M171		
FORD	Galaxy (9/95-)	A				TS-E1776 *					TS-G1748	TS-G1778		*UD-M171	
		G				TS-E1776 *					TS-G1748	TS-G1778		*UD-M171	
	Mondeo-series (3/93-11/00)	A	TS-C1700R	TS-E176C	TS-E1796	TS-E1776	TS-A171C		TS-A1710		TS-G1748	TS-G1778		UD-M172	
		G	TS-C1700R	TS-E176C	TS-E1796	TS-E1776	TS-A171C		TS-A1710		TS-G1748	TS-G1778		UD-M172	
HONDA	Jazz 5-door (1/02-)	A	TS-C1700R (13)	TS-E176C (13)	TS-E1796 (13)	TS-E1776 (13)	TS-A171C (13)		TS-A1710 (13)		TS-G1748 (13)	TS-G1778 (13)		UD-M1760P	
		G	TS-C1700R (13)	TS-E176C (13)	TS-E1796 (13)	TS-E1776 (13)	TS-A171C (13)		TS-A1710 (13)		TS-G1748 (13)	TS-G1778 (13)		UD-M1760P	
HYUNDAI	Getz (10/02-)	A									TS-G1748	TS-G1778			
	Pony 3+5-door (1/90-9/94)	A				TS-E1076					TS-G1048	TS-G1018			
	A				TS-E1076						TS-G1048	TS-G1018			
VAZ/LADA	Pony 4-door(Excell) (1/90-9/94)	A				TS-E1076					TS-G1048	TS-G1018			
	Samara 3-door (1/86-12/99)	E	TS-C1300R	TS-E136C	TS-E1396	TS-E137									

UNIVERSAL SPEAKERS APPLICATION CHART FOR ORIGINAL SPEAKER LOCATION



CAR BRAND	MODEL & INTRODUCTION	LOCATION	EUR REF. SEPARATE COMPO SERIES	E-MOTION SEPARATE COMPO SERIES	E-MOTION 3-WAY SERIES	E-MOTION 2-WAY SERIES	A-CCELERATE SEPARATE COMPO SERIES	A-CCELERATE 4-WAY	A-CCELERATE 3-WAY	A-CCELERATE 2-WAY	G-SERIES 2-WAY	G-SERIES DUAL CONE	SPEAKER INTERFACE KITS	SPEAKER ADAPTER PLATES
VAZ/LADA	2115	E	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C			TS-A1310	TS-G1348	TS-G1318		
VAZ/NIVA	21213	E	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C			TS-A1310	TS-G1348	TS-G1318		
	2131	E	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C			TS-A1310	TS-G1348	TS-G1318		
MOSKVIC/H	2141	B	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C			TS-A1310	TS-G1348	TS-G1318		
MOSKVIC/H														
GAZ/VOLGA	3110	B	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C			TS-A1310	TS-G1348	TS-G1318		
LANCIA	Dedra (6/89-4/99)	B												TS-G1018
	Delta (7/93-6/00)	C												TS-G1718
	Y (1/96-2/03)	A	TS-C1700R	TS-E176C	TS-E1796	TS-E1776	TS-A171C			TS-A1710	TS-G1748	TS-G1718		
	Ypsilon(3/03-)	A	TS-C1700R	TS-E176C	TS-E1796	TS-E1776	TS-A171C			TS-A1710	TS-G1748	TS-G1718		UD-M171
		F	TS-C1700R	TS-E176C	TS-E1796	TS-E1776	TS-A171C			TS-A1710	TS-G1748	TS-G1718		UD-M171
	Z (3/94-9/02)	A	TS-C1700R (1)	TS-E176C (1)	TS-E1796	TS-E1776	TS-A171C (1)			TS-A1710	TS-G1748	TS-G1718		
		F	TS-C1700R *	TS-E176C *	TS-E1796 *	TS-E1776 *	TS-A171C *			TS-A1710 *	TS-G1748	TS-G1718		*UD-M171
	Phedra (10/02-)	B									TS-G1748	TS-G1718		
	190/190E (W201) (1/83-5/93)	B				TS-E1076					TS-G1048	TS-G1018		
	A-series (9/97-)	A	TS-C1700R	TS-E176C	TS-E1796	TS-E1776	TS-A171C			TS-A1710	TS-G1748	TS-G1718		UD-M175MB
		G	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C			TS-A1310	TS-G1348	TS-G1318		UD-M135MB
	Vito (3/96-)	B									TS-G1048	TS-G1018		
	V-series (3/96-)	B									TS-G1048	TS-G1018		
NISSAN	Y-series (3/96-)	B									TS-G1048	TS-G1018		
	Micro 5-door (10/02-)	A	TS-C1700R *	TS-E176C *	TS-E1796 *	TS-E1776 *	TS-A171C *			TS-A1710 *	TS-G1748	TS-G1718		*UD-M1760P
		G	TS-C1700R	TS-E176C	TS-E1796	TS-E1776	TS-A171C			TS-A1710	TS-G1748	TS-G1718		
		E	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C			TS-A1310	TS-G1348	TS-G1318		
PEL/VAUXHALL	Astra 3-/5-door (9/91-9/97)	E												
	Astra 4-door (6/92- 9/97)	C	TS-C1700R	TS-E176C	TS-E1796	TS-E1776	TS-A171C			TS-A1710	TS-G1748	TS-G1718	AD-EUR800S	
	Astra series (10/97-)	A	TS-C1700R	TS-E176C	TS-E1796	TS-E1776	TS-A171C			TS-A1710	TS-G1748	TS-G1718	AD-EUR800S	UD-M1760P
	Astra 3-door (10/97-)	E	TS-C1700R	TS-E176C	TS-E1796	TS-E1776	TS-A171C			TS-A1710	TS-G1748	TS-G1718	AD-EUR800S	
	Omega (4/94-)	A	TS-C1700R	TS-E176C	TS-E1796	TS-E1776	TS-A171C			TS-A1710	TS-G1748	TS-G1718	AD-EUR800S	UD-M1760P
	Tigra (11/95-)	A												
	Vectra (9/95-2/02)	A									TS-G1748	TS-G1718	AD-EUR800S	UD-M1760P
	Vectra (3/02-)	A	TS-C1700R	TS-E176C	TS-E1796	TS-E1776	TS-A171C			TS-A1710	TS-G1748	TS-G1718	AD-EUR800S	UD-M1760P
		G	TS-C1700R	TS-E176C	TS-E1796	TS-E1776	TS-A171C			TS-A1710	TS-G1748	TS-G1718	AD-EUR800S	UD-M1760P
	Aquila (2/01-)	B									TS-G1048	TS-G1018		
		K									TS-G1048	TS-G1018		
	Meriva 5-door (10/02-)	A	TS-C1700R	TS-E176C	TS-E1796	TS-E1776	TS-A171C			TS-A1710	TS-G1748	TS-G1718	AD-EUR800S	UD-M1760P
		G	TS-C1700R	TS-E176C	TS-E1796	TS-E1776	TS-A171C			TS-A1710	TS-G1748	TS-G1718	AD-EUR800S	UD-M1760P
PEUGEOT	106 XR/XN 3-door (9/91-)	A												
	106 XT/XSI 3-door (9/91-)	F												
		A												
	106 5-door (9/92-)	G												
	206 series (8/98-)	A												
		F, G	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C			TS-A1310	TS-G1348	TS-G1318		
	205 3+5-door (9/83-7/97)	H												
		A												
	306 XS/XT (8/93-2/01)	A												
	307 5-door (3/01-)	A	TS-C1700R (1)	TS-E176C (1)	TS-E1796	TS-E1776	TS-A171C (1)			TS-A1710	TS-G1748	TS-G1718		UD-M171
		G	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C			TS-A1310	TS-G1348	TS-G1318		
	309 3+5-door (11/85-7/93)	H												
		A	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C			TS-A1310	TS-G1348	TS-G1318		
	405 (6/87-5/92)	A	TS-C1700R *	TS-E176C *	TS-E1796 *	TS-E1776	TS-A171C *			TS-A1710 *	TS-G1748	TS-G1718		UD-M171 *
	405 (6/92-5/95)	A	TS-C1700R	TS-E176C	TS-E1796	TS-E1776	TS-A171C			TS-A1710	TS-G1748	TS-G1718		UD-M171 *
	404 (6/95-)	A	TS-C1700R (1)	TS-E176C (1)	TS-E1796	TS-E1776	TS-A171C (1)			TS-A1710	TS-G1748	TS-G1718		
	404 coupe (6/95-)	A	TS-C1700R (1)	TS-E176C (1)	TS-E1796	TS-E1776	TS-A171C (1)			TS-A1710	TS-G1748	TS-G1718		
	605 (9/89-9/99)	A	TS-C1700R	TS-E176C	TS-E1796	TS-E1776	TS-A171C			TS-A1710	TS-G1748	TS-G1718		
		G	TS-C1700R	TS-E176C	TS-E1796	TS-E1776	TS-A171C			TS-A1710	TS-G1748	TS-G1718		
	806 (3/94-9/02)	A	TS-C1700R (1)	TS-E176C (1)	TS-E1796	TS-E1776	TS-A171C (1)			TS-A1710	TS-G1748	TS-G1718		UD-M171 *
		F	TS-C1700R *	TS-E176C *	TS-E1796 *	TS-E1776 *	TS-A171C *			TS-A1710 *	TS-G1748	TS-G1718		
	807 (10/02-)	B												
	Partner (10/94- 9/02)	B												
	Partner (10/02-)	B												
RENAULT	Clio (5/90-2/98)	B												
		E												
	Clio II 5-door except RXE (3/98-)	A	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C			TS-A1310	TS-G1348	TS-G1318	AD-EUR800S	
	Clio II 5-door RXE (3/98-)	A	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C			TS-A1310	TS-G1348	TS-G1318	AD-EUR800S	
		G	TS-C1300R (13)	TS-E136C (13)	TS-E1396 (13)	TS-E1376 (13)	TS-A131C (13)			TS-A1310 (13)	TS-G1348 (13)	TS-G1318 (13)	AD-EUR800S	
	Clio II 3-door (3/98-)	A	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C			TS-A1310	TS-G1348	TS-G1318	AD-EUR800S	
		F	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C			TS-A1310	TS-G1348	TS-G1318	AD-EUR800S	
	Safaree (3/92-10/01)	A	TS-C1700R (1)	TS-E176C	TS-E1796	TS-E1776	TS-A171C (1)			TS-A1710	TS-G1748	TS-G1718	AD-EUR800S	
		G	TS-C1700R	TS-E176C	TS-E1796	TS-E1776	TS-A171C			TS-A1710	TS-G1748	TS-G1718	AD-EUR800S	
	Twingo II (10/98-)	B												
	Twingo II (09/00-)	K												
	Mégane 5-door RT (9/95-9/02)	A	TS-C1700R (1)	TS-E176C (1)	TS-E1796	TS-E1776	TS-A171C (1)			TS-A1710	TS-G1748	TS-G1718	AD-EUR800S	
		E	TS-C1300R (1)	TS-E136C	TS-E1396	TS-E1376	TS-A131C (1)			TS-A1310	TS-G1348	TS-G1318	AD-EUR800S	
	Mégane 5-door RL/RN (9/95-9/02)	A	TS-C1300R (1)	TS-E136C	TS-E1396	TS-E1376	TS-A131C (1)			TS-A1310	TS-G1348	TS-G1318	AD-EUR800S	
		E	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C			TS-A1310	TS-G1348	TS-G1318	AD-EUR800S	
	Mégane (10/02-)	A												
	Mégane Classic (9/95-9/02)	A	TS-C1700R (1)	TS-E176C (1)	TS-E1796	TS-E1776	TS-A171C (1)			TS-A1710	TS-G1748	TS-G1718	AD-EUR800S	
		C	TS-C1300R (3)	TS-E136C (3)	TS-E1396 (3)	TS-E1376 (3)	TS-A131C (3)			TS-A1310 (3)	TS-G1348 (3)	TS-G1318 (3)	AD-EUR800S	
	Mégane Coupé (9/95-9/02)	A	TS-C1700R (1)	TS-E176C (1)	TS-E1796	TS-E1776	TS-A171C (1)			TS-A1710	TS-G1748	TS-G1718	AD-EUR800S	
		E	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C			TS-A1310	TS-G1348	TS-G1318	AD-EUR800S	
	Mégane Scénic (10/96-6/03)	A	TS-C1300R (1)	TS-E136C	TS-E1396	TS-E1376	TS-A131C (1)			TS-A1310	TS-G1348	TS-G1318	AD-EUR800S	
		E	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C			TS-A1310	TS-G1348	TS-G1318	AD-EUR800S	
	Express (6/87-8/97)	B												
	19 RL RN (4/92-8/95)	B												
		E	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C			TS-A1310	TS-G1348	TS-G1318	AD-EUR800S	UD-M101
	19 lexcept RL/RN (4/92-8/95)	B												
		A	TS-C1700R											
		E	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C			TS-A1310	TS-G1348	TS-G1318	AD-EUR800S	UD-M101
	19 Chamade (except RL/RN) (4/92-8/95)	B												
		A	TS-C1700R											
	19 Chamade RL RN (6/92-8/95)	B												
	19 Cabrio (4/92-4/97)	B												
		A	TS-C1700R											
		F												
	Launa (1/94-9/99)	A	TS-C1700R											
		E	TS-C1700R (4)	TS-E176C (4)	TS-E1796 (4)	TS-E1776 (4)	TS-A171C (4)			TS-A1710 (4)	TS-G1748 (4)	TS-G1718 (4)	AD-EUR800S	
	Laguna Break (9/95-9/99)	A												
	Laguna Break (9/95-9/99)	K												
	Laguna series (10/99-)	A	TS-C1300R (12)	TS-E136C (12)	TS-E1396 (12)	TS-E1376 (12)	TS-A131C (12)			TS-A1310 (12)	TS-G1348 (12)	TS-G1318 (12)	AD-EUR800S	
		G	TS-C1300R (12)	TS-E136C (12)	TS-E1396 (12)	TS-E1376 (12)	TS-A131C (12)			TS-A1310 (12)	TS-G1348 (12)	TS-G1318 (12)	AD-EUR800S	

CAR BRAND	MODEL & INTRODUCTION	LOCATION	EUR REF. SEPARATE COMPO SERIES	E-MOTION SEPARATE COMPO SERIES	E-MOTION 3-WAY SERIES	E-MOTION 2-WAY SERIES	A-CCELERATE SEPARATE COMPO SERIES	A-CCELERATE 4-WAY	A-CCELERATE 3-WAY	A-CCELERATE 2-WAY	G-SERIES 2-WAY	G-SERIES DUAL CONE	SPEAKER INTERFACE KITS	SPEAKER ADAPTER PLATES
RENAULT	Kangoo (9/97-)	B				TS-E1076					TS-G1048	TS-G1018	AD-EUR8005	
		E				TS-E1076					TS-G1048	TS-G1018	AD-EUR8005	
	Kangoo Express (9/97-)	B				TS-E1076					TS-G1048	TS-G1018	AD-EUR8005	
		E				TS-E1076					TS-G1048	TS-G1018	AD-EUR8005	
ESPACE	Espace (5/91-1/97)	B	TS-C1700R (1)	TS-E176C (1)	TS-E1796	TS-E1776	TS-A171C (1)		TS-A1710		TS-G1748	TS-G1718	AD-EUR8005	
		H	TS-C1700R (1)	TS-E176C (1)	TS-E1796	TS-E1776	TS-A171C (1)		TS-A1710		TS-G1748	TS-G1718	AD-EUR8005	
	Espace (11/02-)	A									TS-G1348 (12/13)	TS-G1318 (12/13)	AD-EUR8005	
		G	TS-C1300R (12)	TS-E136C (12)	TS-E1396 (12)	TS-E1376 (12)	TS-A131C (12)		TS-A1310 (12)		TS-G1348 (12)	TS-G1318 (12)	AD-EUR8005	
ROVER	Velsatis (10/01-)	A									TS-G1348 (12)	TS-G1318 (12)		
		E								TS-G1348 (12)	TS-G1318 (12)			
	214/216 series (1/90-9/95)	A	TS-C1700R (1)	TS-E176C (1)			TS-A171C (1)					TS-G1718		
		E	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C		TS-A1310		TS-G1348	TS-G1318		
216 Gti 3-door (7/90-9/95)	A	TS-C1700R	TS-E176C			TS-A171C					TS-G1718			
	E	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C		TS-A1310		TS-G1348	TS-G1318			
	214/216 series (10/95-)	E	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C		TS-A1310		TS-G1348	TS-G1318		
		A										TS-G1718		
SEAT	Arosa (10/97-)	A	TS-C1700R	TS-E176C	TS-E1796	TS-E1776	TS-A171C		TS-A1710		TS-G1748	TS-G1718		UD-M177W
		E	TS-C1700R	TS-E176C	TS-E1796	TS-E1776	TS-A171C		TS-A1710		TS-G1748	TS-G1718	AD-EUR8005	
	Cordoba (10/93-10/99)	A	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C		TS-A1310		TS-G1348	TS-G1318		
		E	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C		TS-A1310		TS-G1348	TS-G1318		
	Ibiza 3+5-door (1/89-4/93)	A	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C		TS-A1310		TS-G1348	TS-G1318		
		E	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C		TS-A1310		TS-G1348	TS-G1318		
	Ibiza (4/93-5/99)	A	TS-C1700R	TS-E176C	TS-E1796	TS-E1776	TS-A171C		TS-A1710		TS-G1748	TS-G1718	AD-EUR8005	
		E	TS-C1700R	TS-E176C	TS-E1796	TS-E1776	TS-A171C		TS-A1710		TS-G1748	TS-G1718		UD-M177W
	Ibiza 5-door (1/02-)	A	TS-C1700R	TS-E176C	TS-E1796	TS-E1776	TS-A171C		TS-A1710		TS-G1748	TS-G1718		UD-M177W
		E	TS-C1700R	TS-E176C	TS-E1796	TS-E1776	TS-A171C		TS-A1710		TS-G1748	TS-G1718		UD-M177W
	Toledo (10/98-)	A	TS-C1700R	TS-E176C	TS-E1796	TS-E1776	TS-A171C		TS-A1710		TS-G1748	TS-G1718		UD-M174VW
		G	TS-C1700R	TS-E176C	TS-E1796	TS-E1776	TS-A171C		TS-A1710		TS-G1748	TS-G1718		UD-M174VW
	Alhambra (9/95-)	A									TS-G1748	TS-G1718	AD-EUR8005	*UD-M171
		G									TS-G1748	TS-G1718	AD-EUR8005	*UD-M171
SKODA	Fabia (9/99-)	A								TS-G1748	TS-G1718			
		E								TS-G1348	TS-G1318			
SUBARU	Vivio (3/92-12/00)	B								TS-G1048	TS-G1018			
		J								TS-G1048	TS-G1018			
SUZUKI	Swift cabrio (1/92-12/00)	B								TS-G1048	TS-G1018			
		J								TS-G1048	TS-G1018			
VOLVO	S40 (9/95-)	A	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C		TS-A1310		TS-G1348	TS-G1318		
		C	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C		TS-A1310		TS-G1348	TS-G1318		
	V40 (9/95-)	A	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C		TS-A1310		TS-G1348	TS-G1318		
		H									TS-G1348	TS-G1318		
VW	440 (10/94-8/95)	A	TS-C1300R	TS-E136C	TS-E1396	TS-E1376	TS-A131C		TS-A1310		TS-G1348	TS-G1318		
		E									TS-G1348	TS-G1318		
	850 Wagon (10/91-12/96)	A	TS-C1700R	TS-E176C	TS-E1796	TS-E1776	TS-A171C		TS-A1710		TS-G1748	TS-G1718		UD-M177W
		E	TS-C1700R	TS-E176C	TS-E1796	TS-E1776	TS-A171C		TS-A1710		TS-G1748	TS-G1718		UD-M174VW
VW	Lupo (10/98-)	A	TS-C1700R	TS-E176C	TS-E1796	TS-E1776	TS-A171C		TS-A1710		TS-G1748	TS-G1718		UD-M174VW
		F	TS-C1700R	TS-E176C	TS-E1796	TS-E1776	TS-A171C		TS-A1710		TS-G1748	TS-G1718		UD-M174VW
	Golf III-series (11/91-9/97)	A		TS-E176C (7)	TS-E1796 (7)	TS-E1776 (7)	TS-A171C (7)		TS-A1710 (7)		TS-G1748 (7)	TS-G1718 (7)		
		G		TS-E176C (5)	TS-E1796 (5)	TS-E1776 (5)	TS-A171C (5)		TS-A1710 (5)		TS-G1748 (5)	TS-G1718 (5)		
	Golf Variant CL (9/93-9/99)	A		TS-E176C	TS-E1796	TS-E1776	TS-A171C		TS-A1710		TS-G1748	TS-G1718	AD-EUR8005	
		G		TS-E176C	TS-E1796	TS-E1776	TS-A171C		TS-A1710		TS-G1748	TS-G1718	AD-EUR8005	
	Golf IV-series (9/97-9/03)	A	TS-C1700R	TS-E176C	TS-E1796	TS-E1776	TS-A171C		TS-A1710		TS-G1748	TS-G1718		UD-M174VW
		G	TS-C1700R	TS-E176C	TS-E1796	TS-E1776	TS-A171C		TS-A1710		TS-G1748	TS-G1718		UD-M174VW
	Bora (10/98-)	A	TS-C1700R	TS-E176C	TS-E1796	TS-E1776	TS-A171C		TS-A1710		TS-G1748	TS-G1718		UD-M174VW
		G	TS-C1700R	TS-E176C	TS-E1796	TS-E1776	TS-A171C		TS-A1710		TS-G1748	TS-G1718		UD-M174VW
	Vento (1/92-9/98)	A		TS-E176C	TS-E1796	TS-E1776	TS-A171C		TS-A1710		TS-G1748	TS-G1718		
		G		TS-E176C	TS-E1796	TS-E1776	TS-A171C		TS-A1710		TS-G1748	TS-G1718		
	Passat series (9/96-)	A	TS-C1700R	TS-E176C	TS-E1796	TS-E1776	TS-A171C		TS-A1710		TS-G1748	TS-G1718		UD-M174VW
		G	TS-C1700R	TS-E176C	TS-E1796	TS-E1776	TS-A171C		TS-A1710		TS-G1748	TS-G1718		UD-M174VW
Polo Classic (1/84-9/99)	A					TS-E1776*	TS-A171C*		TS-A1710*		TS-G1748	TS-G1718		*UD-M171
	E					TS-E1776*	TS-A171C*		TS-A1710*		TS-G1748	TS-G1718		*UD-M171
Polo 3+5-door (10/94-9/99)	A					TS-E1776*	TS-A171C*		TS-A1710*		TS-G1748	TS-G1718		*UD-M171
	E	TS-C1700R *	TS-E176C*	TS-E1796*	TS-E1776*	TS-A171C*		TS-A1710*		TS-G1748	TS-G1718		*UD-M171	
Polo 3+5-door (10/99-8/01)	A	TS-C1700R *	TS-E176C*	TS-E1796*	TS-E1776*	TS-A171C*		TS-A1710*		TS-G1748	TS-G1718		*UD-M171	
	E	TS-C1700R	TS-E176C	TS-E1796	TS-E1776	TS-A171C		TS-A1710		TS-G1748	TS-G1718		UD-M174VW	
Sharan (9/95-)	A									TS-G1748	TS-G1718	AD-EUR8005	*UD-M171	
	G					TS-E1776*				TS-G1748	TS-G1718	AD-EUR8005	*UD-M171	

Location: A: Front Door B: Dual Dash C: Rear Deck D: Kick Panel E: Rear Side Shelf F: Rear Seat Side G: Rear Door H: Rear Pillar I: Hatch Door J: Rear Panel K: Rear Ceiling
 (1) Tweeter fits original location, (2) Need to make 2 screw holes on the original speaker location, (3) Original 13 cm speaker adapter required, (4) Original 17 cm adapter required, (5) Original 17 cm speaker location required, (6) High-range unit fits original location, (7) Front door pocket with 17 cm speaker location required, (8) Rear door pocket with 17 cm speaker location required, (9) Drill holes to fix the speaker, (10) 5-door, (11) In case original speaker places are provided (12) Modify speaker frame, (13) Steel cut or some modification.
 All mounting proposals and measurements contained in this guide have been checked. However, due to continual modification of certain car models, we cannot guarantee the complete accuracy of all statements, technical information and recommendations.
 For that reason, a thorough inspection of the mounting area should be made before proceeding with installation.

ACCESSORIES

CONNECTORS

Speaker outputs to RCA connectors which enable the connection of high power amps having RCA connectors to the speaker outputs of car stereo models.



RD-SR520
For high power car stereo models with 2 x 25 W output (power).

RD-SR510

For car stereo models with 2 x 8.5 W output (power).



CD-RD100
RCA-DIN interconnector which enables the connection of any car stereo unit with RCA output to a Pioneer component system with DIN input.

OTHERS



UD-G305
Subwoofer Grille for TS-W121SPL*, TS-SW124D, TS-W305C and TS-W305F

UD-G255

Subwoofer Grille for TS-W101SPL*, TS-W255C and TS-W255F

* Necessary to take off the gasket.



CD-727
Component Dual Amp Balancer
Adjusts front to rear balance in component dual amp systems with RCA connectors.



RD-223
Battery Cord
Amplifier battery cord specially designed for model GM-X972.

RD-221

Battery Cord
Amplifier battery cord specially designed for model DEH-P80MP (with a vehicle whose ACC fuse is less than 10 A).



CD-RB20
IP-Bus — RCA Interconnector
Allows you to connect an external audio source and a Multi-CD player through the IP-Bus input of any P-series headunit (except KEH-P1010(13)R).

LINE NOISE SUPPRESSORS



High power line noise suppressors which reduce alternator and other noise reaching the car stereo or amplifier through the power line.

AD-990C (Handles up to 4 A)

INTERCONNECTORS



17P081
Antenna Adapter
Converts an ISO10599 type female antenna connector into a DIN41585 (Sept. 1953) male antenna connector.



AD-EU800S
Interfaces Pioneer car speakers with the speaker harness in Renault Espace, Safrane and 19 (5/'92-), Volkswagen Golf III and Vento, Seat Toledo and Opel/Vauxhall Astra.

REMOTE CONTROLLER KIT



CD-R600
Designed with safety in mind, Pioneer's full-function smart remote works with remote control ready headunits, to give you easy control of all operations — without having to reach for the headunit.

CD/DVD MAGAZINE



CD-612V
CD/DVD Magazine for XDV-P9-II, CDX-P670, CDX-FM657 and multi-CD Packages.

OPTIONAL SPACER RINGS



AD-M16
(25 mm thick)



UD-M16S
(17 — 42 mm thick)
Spacer rings designed for 16 cm flush-mount speakers.



UD-M100
(11 — 27 mm thick)
Designed for 10 cm flush-mount speakers.

CABLES



CD-140 (4 m)
Component DIN extension cable.

63P989 (5 m)
RCA cable (Audio).

96P774 (5 m)
RCA cable (Audio + Video).

OPTIONAL CUSTOM-FIT SPEAKER ADAPTER PLATES



UD-M172
Adapter kit designed to mount 17 cm Ø speakers.



UD-M171 (5 mm thick)
Adapter kit designed to mount 17 cm Ø speakers.

UD-M135M
Adapter kit for Mercedes A Class to mount 13 cm speakers (rear door).

UD-M174VW

Adapter kit for Volkswagen Golf/Passat to mount 17 cm speakers (front and rear door).

UD-M177VW

Adapter kit for Volkswagen Lupo and Seat Arosa to mount 17 cm speakers (front door).

UD-M175MB

Adapter kit for Mercedes A Class to mount 17 cm speakers (front door).

UD-M1760P

Adapter kit for Opel/Vauxhall cars to mount 17 cm speakers.

NAVIGATION AND AV ACCESSORIES

AD-HM6002 | HEADREST MOUNTING KIT FOR AVD-W6200

The AD-HM6002 allows for the AVD-W6200 display to be mounted in the headrest so passengers in the back seat can enjoy AV entertainment.

AD-HM6200 | BETWEEN SEAT MOUNTING KIT FOR AVD-W6200

With the AD-HM6200, the AVD-W6200 display can be installed between the two front seats to ensure AV pleasure for one or more passengers in the back seat.

AD-GA10 | OFF-SET INSTALLATION KIT

NEW

For installing AVIC-X1 and AVH-P6600/7500DVD deeper into the dashboard if there is enough available space behind the unit.

AD-RM6100 | TRIM RING FOR AVR-W6100

The optional AD-RM6100 trim ring is recommended to install the AVR-W6100.



AN-G3 | TV ANTENNA

The AN-G3 diversity TV antenna with built-in booster improves signal reception, especially when signals are weak. Mountable on the innerside of the car window.

AN-TMC1 | UNIVERSAL FM ANTENNA

Active transparent windshield antenna for optimal reception of TMC broadcasts on the AVIC-800/900DVD. Not required for AVIC-X1 or ANH-P10MP.

CD-65RGB | RGB CABLE (6 M)

For connecting the Navigation system with Pioneer's AVD-W8000 colour display.

CD-AB300 | AV-BUS CABLE (3 M)

For connecting SDV-P7 or XDV-P9-II to the new AVIC-X1, the AVH-P7500DVD, or the AVH-P6600DVD.

CD-AB301E | AV-BUS EXTENSION CABLE (3 M)

For extending an AV-Bus cable.

CD-AB50 | AV-BUS CABLE (0.5 M)

For connecting SDV-P7 or XDV-P9-II to the new AVIC-X1, the AVH-P7500DVD or the new AVH-P6600DVD.

CD-AD600 | OPTICAL DIGITAL CABLE (6 M)

NEW

Optical digital cable to connect a multi-channel processor, such as the AVH-P6600DVD, SDV-P7 or XDV-P9-II to the DEQ-P6600.

CD-AR600 | AV REMOTE CABLE FOR AVR-W6100

Gives an extra composite input on the AVR-W6100. Also includes a remote control relay.

CD-IP601E | IP-BUS EXTENSION CABLE (6 M)

For Pioneer P-series headunit in-dash installation with SDV-P7.

CD-R11 | OPTIONAL REMOTE

Optional remote control for users of AVIC-900DVD/800DVD allowing full control of the AVH-P6400CD/R AV headunits.



CD-RGB600 | RGB CONNECTION CABLE (6 M)

Audio-visual RGB connection cable between the 2001 AVIC-8/9DVD or the 2002 AVIC-8DVD-II and the AVH-P7500/6600DVD and AVH-P6400CD/R.

CD-RV1 | REAR SEAT REMOTE CONTROL

NEW

This remote control gives rear seat passengers control over the basic DVD-V functions of the AVIC-X1.

CD-SC300E | TRUNK/BOOT MOUNT EXTENSION CABLE

NEW

This cable can be used to extend the 3 m system cable between the AVIC-X1's main and hide-away unit. It will allow users to install the hide-away unit in the trunk/boot of their car.

CD-SR100 | AV STEERING WHEEL REMOTE CONTROL

Steering wheel remote control for Pioneer's AV headunits and standard audio headunits. Has a Voice Trigger Key for Navigation System.



CD-TS376P | NAVIGATION VOICE GUIDANCE SPEAKER

NEW

This add-on speaker is meant to be used with the AVIC-900/800DVD navigation system and either an AVX-7600 display or an AVH-P7500/6600DVD AV headunit. It enables you to hear the navigation system's voice guidance instructions through this dedicated speaker.

CD-V61FM | FM MODULATOR

This FM modulator is ideal for connecting a video source (XDV-P9-II or SDV-P7) to any stereo FM receiver, including OEM headunits. Alternatively, connect the modulator to the AV output of the AVR-W6100 to listen to the sound over the system's speakers. The CD-V61FM also has noise cancellation circuitry and features a wide audio bandwidth to ensure excellent audio quality*.

* Depends on the performance of the receiving tuner.

NAVIGATION AND AV ACCESSORIES

CD-VC1

VOICE COMMAND PACK FOR AVIC-X1

NEW

Includes microphone and steering wheel remote control. It lets users operate their AVIC-X1 'hands on the wheel'. Most functions can be controlled using the remote control. Further instructions can be given through the microphone.



ND-BC1

UNIVERSAL BACK-UP CAMERA

NEW

This 'mirror image' NTSC high-quality universal camera can be hooked up to Pioneer's AVIC-X1, an AV headunit [AVH-P7500/6600DVD] or a Pioneer display with camera input [AVD-W8000/6210/6200 and AVX-7600]. Its compact size allows for installation in virtually any location.



CNDV-40MT DVD MAP DISC

NEW



DVD Map disc available for upscaling a Pioneer touch screen operated navigation system [AVIC-800/900DVD* combined with AVH-P6500/6600/7500DVD or AVD-W6210]. Contains the TeleAtlas map data with detailed City Maps, extra coverage and more POIs, plus the application programme for touch panel operation.

* Or AVIC-9/8DVD-II

TS-CX7

CENTRE SPEAKER FOR 5.1-CHANNEL SOUND

60 W Max.

For more information, please refer to page 77.



FEATURES NAVIGATION AND AUDIO VISUAL

AVIC-X1

DVD NAVIGATION AV HEADUNIT

Built in Navigation Unit

- 32-bit RISC CPU
- Exclusive Graphic Accelerator for smooth line drawing
- Europe on one DVD-ROM disc
- Advanced and super fast [Re-]routing
- Voice guidance and DISPLAY menu [8 Languages Support: English, German, French, Italian, Dutch/Flemish, Spanish, Danish, Swedish]
- Voice recognition with optional Voice Command Pack [6 Languages Support: English, German, French, Italian, Dutch, Spanish]
- Selectable Voice Guidance Channel (L, R, or L+R)
- 6 Guidance Modes, including the exclusive Driver's View mode and the new Split Screen modes [Rear view + Navi Map/AV status + Navi Map]
- Memory Navi for simultaneous navigation and AV entertainment
- Built-in GPS receiver
- Built-in 3-D positioning sensor
- Built-in RDS-TMC tuner for real-time Traffic Information
- Background picture customisation via CD-ROM

Display

- Fully motorised high-quality 6.5-inch TFT active matrix LCD colour display with Anti-Glare technology
- Display area : 144 mm x 76 mm / 336,960 [1,440 x 234] pixels
- Touch panel operation
- Auto dimmer control
- Picture Adjustment
- Adjustable viewing angle [50° — 110°]
- Selectable wide-screen mode [Just/Full/Cinema/Zoom/Normal]
- 10-character sub display

Built-in DVD/CD/MP3 PLAYER

- DVD-Video, DVD-R/DVD-RW¹, CD/CD-R/CD-RW²/MP3 playback — even while navigating
- Built-in Linear PCM/Dolby Digital decoder
- Region Number: 2

DVD Capabilities

- DVD-Video playback with Direct Search [Title/Chapter/Time, Next/Previous Chapter, Fast Forward/Reverse, Pause, Chapter Repeat, Condition Memory (30 discs)]
- Resume play

CD Capabilities

- CD playback with Track Search/Scan/Pause/Repeat, Random Play, CD Text, List Search
- 96 KHz/24-bit DAC
- 24-bit D/A converter
- Fast Forward/Reverse
- Track Manual Search
- Auto MP3 File/CD Track display
- MP3 ID3 tag data display

Tuner

- Adaptive RDS [PL, PS, AF, TP/TA]
- PTY (search and alarm)
- Station Name List [PS]
- NEWS interrupt feature
- Radio Text
- D4Q Digital AM/FM tuner
- High speed PLL Synthesizer Tuner
- PNS (Pulse Noise Suppressor)
- 24 Presets
- BSM (Best Stations Memory)

Audio Visual

- 1 RCA AV input
- 1 RCA AV rear output
- 1 video input for Rear View camera
- Dual Zone operation
- IP-bus control for adding TV Tuner/Multi-CD Player/DAB Tuner/AUX/EXT 1&2
- AV-bus control for [PAL] TV Tuner/Multi-DVD Player/Single DVD Player

Audio

- MOSFET 50 W x 4 Amplifier
- Optimum sound reproduction for in-car entertainment: Built-in EEQ (Easy EQ) Plus system with 5-mode factory preset equaliser, 2 custom preset equalisers, 3-band parametric equaliser, Source Equalisation memory, 3-mode loudness and HPF/LPF network
- EQ-EX
- Direct Sub Drive
- Source Level Adjuster
- Fader
- 3-channel RCA Pre-Outs [Front+Rear+Subwoofer]

General

- Multi-CD control
- Source TV control
- DAB tuner control
- Source DVD control
- External unit control via IP-bus
- AUX-in
- Wired Remote control ready
- BGV selectable
- Selectable background pictures
- ISO connector
- Rotary volume
- Removable Front Panel
- Dual button illumination [green/red]
- Cellular telephone auto muting
- Speaker input for hands-free

DVD-ROM Navigation Disc: CNDV-40MT

- Application programme and map data on 1 DVD disc
- Coverage Area: UK (incl. Northern Ireland), Germany, France, Italy, Benelux, Austria, Switzerland, Spain, Portugal, Denmark, Sweden, Finland (areas of Helsinki, Varsiais-Suomi, Kanta-Häme, Pirkanmaa, Ahvenanmaa), Norway, Ireland (= Dublin, Cork, Galway, Limerick and selected motorways), Czech Republic (Prague area and selected motorways), Monaco, Liechtenstein, Andorra, San Marino, The Vatican

AVIC-900DVD

DVD NAVIGATION/AV UNIT

Navigation/AV Unit

- 1-DIN or hide-away installation
- Voice Recognition [6 Languages Support: English, German, French, Italian, Dutch, Spanish]
- Voice Guidance and Display MENU [8 Languages Support: English, German, French, Italian, Dutch/Flemish, Spanish, Danish, Swedish]
- 32-bit RISC CPU
- Exclusive Graphic Accelerator for smooth line drawing
- Super-fast operation Route Calculation
- Built-in RDS-TMC tuner for Traffic Information
- Built-in Hybrid sensor [G-force sensor] for distance correction on slopes
- Built-in GPS receiver

- 4 Guidance Modes [Map Mode, Street List Mode, Mixed Mode, Driver's View]
- PC Card Slot built-in [Type II]
- Speaker Out [8 Ω miniplug out] for voice guidance
- Ultra-slim built-in DVD-Video/DVD-ROM/CD Player
- Built-in MPEG 2/1 decoder-stereo sound
- CD functions: Track Scan, CD Pause, Random/Repeat Play
- Region Number: 2

Accessories

- Voice recognition Microphone
- GPS Antenna
- Waterproof
- On-dash/roof mounting
- Power Cable

- RGB cable to connect AVH series
- Steering wheel remote control
- Joystick-type Remote Control for DVD-Video

DVD-ROM Navigation Disc: CNDV-40MT

- Application programme and map data on 1 DVD disc
- Coverage Area: UK (incl. Northern Ireland), Germany, France, Italy, Benelux, Austria, Switzerland, Spain, Portugal, Denmark, Sweden, Finland (areas of Helsinki, Varsiais-Suomi, Kanta-Häme, Pirkanmaa, Ahvenanmaa), Norway, Ireland (= Dublin, Cork, Galway, Limerick and selected motorways), Czech Republic (Prague area and selected motorways), Monaco, Liechtenstein, Andorra, San Marino, The Vatican

AVIC-800DVD | DVD NAVIGATION UNIT

<p>Navigation Unit</p> <ul style="list-style-type: none"> • 1-DIN or hide-away installation • Voice Recognition (6 Languages Support: English, German, French, Italian, Dutch, Spanish) • Voice Guidance and Display MENU (8 Languages Support: English, German, French, Italian, Dutch/Flemish, Spanish, Danish, Swedish) • 32-bit RISC CPU • Exclusive Graphic Accelerator for smooth line drawing • Super-fast operation Route Calculation • Built-in RDS-TMC tuner for Traffic Information • Built-in Hybrid sensor (G-force sensor) for distance correction on slopes 	<ul style="list-style-type: none"> • Built-in GPS receiver • 4 Guidance Modes (Map Mode, Street List Mode, Mixed Mode, Driver's View) • PC Card Slot built-in (Type II) • Speaker Out (8 Ω miniplug out) for voice guidance <p>Accessories</p> <ul style="list-style-type: none"> • Voice recognition Microphone • GPS Antenna <ul style="list-style-type: none"> - Waterproof - On-dash/roof mounting • Power Cable • RGB cable to connect AVH series 	<ul style="list-style-type: none"> • Steering wheel remote control <p>DVD-ROM Navigation Disc: CNDV-40MT</p> <ul style="list-style-type: none"> • Application programme and map data on 1 DVD disc • Coverage Area: UK (incl. Northern Ireland), Germany, France, Italy, Benelux, Austria, Switzerland, Spain, Portugal, Denmark, Sweden, Finland (areas of Helsinki, Varsiais-Suomi, Kanta-Häme, Pirkanmaa, Ahvenanmaa), Norway, Ireland (= Dublin, Cork, Galway, Limerick and selected motorways), Czech Republic (Prague area and selected motorways), Monaco, Liechtenstein, Andorra, San Marino, The Vatican
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ANH-P10MP | NAVIGATION CD TUNER

<p>Navigation Features</p> <ul style="list-style-type: none"> • 1-DIN installation • Built-in RDS-TMC tuner for Traffic Information • Built-in GPS receiver • Selectable Voice Guidance: Male/Female* • Menu language: UK English, German, French, Italian, Flemish, Swedish, Spanish, Danish, Dutch, Turkish, Portuguese • Destination Memory: permanent memory for approx. 50 destinations + 50 last destinations • Route planner modes: shortest/fastest route with/without motorways, with/without toll roads, with/without ferries • TMC support: Austria, Germany, North of Italy, The Netherlands, Switzerland • CD playback whilst navigating • Address Search • POI Search • Speed Limit Display <p>CD-ROM Navigation Disc</p> <ul style="list-style-type: none"> • Application programme and map data • Coverage Area: UK, Ireland, Germany, France, Italy, Benelux, Austria, Switzerland, Spain, Portugal, Denmark, Sweden, Monaco, Liechtenstein, Andorra, San Marino, The Vatican, Czech Republic, Norway and Finland <p>Tuner</p> <ul style="list-style-type: none"> • Adaptive RDS (PI, PS, AF, TP/TA) • PTY (Search and Alarm) • News interrupt feature • Radio Text • BSA (Best TP Station Auto Search) 	<ul style="list-style-type: none"> • High speed PLL Synthesiser tuner • PNS (Pulse Noise Suppressor) • 24 Presets • BSM (Best Stations Memory) • Digital Processing Tuner (D4Q) <p>CD Player</p> <ul style="list-style-type: none"> • 8 x oversampling digital filter • 1-bit D/A converter • Fast forward/reverse • Track Search/Scan/Repeat • Track/Manual search • Random Play • Last position memory • Disc Title Memory • CD Text • CD-R/CD-RW Playback • CD-ROM • MP3/WMA/WAV Playback <p>Audio</p> <ul style="list-style-type: none"> • MOSFET 50 W x 4 max. output power (watts) • 4 x 27 W DIN output power watts (DIN 45324, +B = 14.4 V) • Built-in EEQ (Easy EQ) Plus system with 5-mode factory preset equaliser, 2 custom preset equalisers, 3-band parametric equaliser, 3-mode Loudness, and HPF/LPF Network • SFEQ (Sound Focus Equaliser)/EQ-EX • Direct Sub Drive • Loudness • Source Level Adjuster • Fader • Dual RCA pre-out (Front + Rear or Subwoofer) 	<ul style="list-style-type: none"> • ASL (Automatic Sound Leveliser) <p>General</p> <ul style="list-style-type: none"> • Multi-CD Control • ITS (Instant Track Selection) • Source TV Control • DAB Tuner Control • External Source DVD Control • External unit control via IP-Bus • AUX-In (with optional CD-RB20) • Remote control ready • ISO Connector • Digital Clock • OEL Blue Display Illumination • Soft Key Control • Rotary volume • Flap-type Front Panel • Removable Front Panel • Cellular telephone auto muting • Flexible angle installation (0 – 30°) • Wired Remote input • Dual Button Illumination • Speaker input hands-free <p>Accessories</p> <ul style="list-style-type: none"> • GPS Antenna (5 m cable) included • DIN trim • DIN installation holder • Detach case (hard) • 30 cm Power Cord cassy with ISO Interconnector <p>* Male only: Turkish; Female only: Danish, Dutch, Flemish</p>
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AVH-P7500DVD | MULTI-CHANNEL DVD AV HEADUNIT

<ul style="list-style-type: none"> • Pioneer Graphical User Interface (GUI) with full-colour virtual reality graphics <p>Display</p> <ul style="list-style-type: none"> • 7-inch wide TFT active matrix LCD colour display • Touch panel operation • High-quality AGLR (Anti-Glare, Low-Reflection) coating • Picture Adjustment • Fully motorised display with auto dimmer and free-adjustable viewing angle (50 – 110°) • Selectable wide-screen mode (Just/Full/Cinema/Zoom/Normal) <p>Built-in DVD/CD/MP3 Player</p> <ul style="list-style-type: none"> • DVD-Audio/DVD-Video/Video CD/MP3 CD player • 5.1-channel surround sound capability: <ul style="list-style-type: none"> - Built-in Linear PCM/MPEG-A/DTS/Dolby Digital/Dolby Pro Logic II decoder - 6-channel DAC & 6-channel DSP - Digital Sound Field Control (SFC) for multi-channel sources (Musical/Drama/Action/5D Theatre) • DVD-R/DVD-RW¹ and CD-R/CD-RW² playback • Region Number: 2 <p>DVD Capabilities</p> <ul style="list-style-type: none"> • DVD-Audio/DVD-Video/VideoCD Playback with Direct Search Chapter/Track, Next/Previous Chapter/Track, Fast Forward/Reverse, Pause, Track/Chapter Repeat, Condition Memory (30 discs), Playback Control (VideoCD only), Direct Search Title/Group, Time Direct Search, Scan, Digital Direct 	<p>CD Capabilities</p> <ul style="list-style-type: none"> • CD Playback with Track Scan/Pause/Repeat, Random Play, CD Text, List Search MP3/CD-R/CD-RW/CD-ROM, Random Play • 96 KHz/24-bit DAC • 24-bit D/A converter • Fast forward/reverse • Track Search/Scan/Repeat • Track/Manual search • Last position memory • Disc Title Memory <p>Tuner</p> <ul style="list-style-type: none"> • Adaptive RDS (PI, PS, AF, TP/TA) • PTY (Search and Alarm) • News interrupt feature • Radio Text • D4Q Digital AM/FM Tuner • BSA (Best TP Station Auto Search) • High speed PLL Synthesiser tuner • PNS (Pulse Noise Suppressor) • 24 Presets • BSM (Best Stations Memory) <p>Audio Visual</p> <ul style="list-style-type: none"> • PAL/NTSC compatible RGB input • 1 RCA AV input • 1 RCA AV output • 1 RCA Audio Output for rear entertainment • Back-up camera input • RGB Input for Navigation system • AV Bus input • 10-bit DAC (Video) • 24-bit DAC (Audio) 	<p>Audio</p> <ul style="list-style-type: none"> • MOSFET 50 W x 5 max. output power (watts) • 5 x 27 W DIN output power watts (DIN 45324, +B = 14.4 V) • Optimum sound reproduction for in-car environment: <ul style="list-style-type: none"> - Built-in EEQ (Easy EQ) Plus system with 5-mode factory preset equaliser, 2 custom preset equalisers, Source Equalisation Memory, and HPF/LPF Network - Built-in DSP (Digital Sound Processor) with Multi-Channel Auto-EQ, 13-band Graphic Equaliser, Auto Time Alignment and Optimum downmix for normal speaker layout • Source Level Adjuster • Fader • Spectrum Analyser • Level indicator • 6-channel Hi-Volt (5 V) RCA Pre-Outs (FR + FL + RR + RL + Centre + Subwoofer) <p>General</p> <ul style="list-style-type: none"> • Multi-CD Control • ITS (Instant Track Selection) for MCD • Source TV Control • DAB Tuner Control • Source DVD Control • External unit control via IP-Bus (2) • AUX-In • Standard remote control • ISO Connector • Rotary volume • Removable Front Panel with safety warning beep • Cellular telephone auto muting • Flexible angle installation (0 – 60°)
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AVX-7600 | 7-INCH WIDE-SCREEN IN-DASH COLOUR DISPLAY

<ul style="list-style-type: none"> • 7-inch wide TFT active matrix LCD colour display • Touch panel operation • Anti-Glare coating • Fully motorised display with auto dimmer and free-adjustable viewing angle • RGB input for navigation 	<ul style="list-style-type: none"> • AV-Bus Input • 2 RCA Video Input (PAL & NTSC Video): Visual IN1, Visual IN2 (for back-up camera) • Selectable wide-screen mode (Just/Full/Cinema/Zoom/Normal) • Partially removable front panel with warning LED 	<ul style="list-style-type: none"> • Dual button illumination • Remote control sensor • OSD
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¹ Even if a DVD-RW disc is recorded in Video format (Video Mode), it may not be playable as a result of scratches, dirt or characteristics specific to the disc, or dirt or condensation on the pickup lens. DVD-RW discs that haven't been finalised, cannot be played. In general, discs recorded in the current format using a PC (personal computer) are playable. However, certain settings and application software environments may not be able to play these discs. Please ask your application software sales agent for more details.
² Use finalised music CD-RW discs for playback. In some cases, CD-RW discs may not play back correctly, unless they have been recorded using a CD-RW unit for recording music. Furthermore, CD players may not play back music CD-RW discs recorded from a music CD-RW recorder as a result of scratches, dirt or characteristics specific to these discs, or dirt or condensation on the pickup lens. Text information such as titles recorded on CD-RW discs may not be displayed. Read directions carefully regarding disc use before handling CD-RW discs. Even if playback of a CD-RW disc is possible, it may take several seconds before actual sound reproduction begins.

FEATURES NAVIGATION, AUDIO VISUAL AND MULTIMEDIA

AVH-P6600DVD | DVD AV HEADUNIT

<ul style="list-style-type: none"> • Pioneer New Graphical User Interface (GUI) with hexagon-shaped on-screen buttons and matching menu visuals <p>Display</p> <ul style="list-style-type: none"> • 6.5-inch wide TFT active matrix LCD colour display • Touch panel operation • Display area: 144 x 77 mm, 336,960 [1,440 x 234] pixels • High-quality AG (Anti-Glare) coating • Picture Adjustment • Fully motorised display with auto dimmer and free-adjustable viewing angle [50 — 110°] • Selectable wide-screen mode [Just/Full/Cinema/Zoom/Normal] <p>Built-in DVD/CD/MP3/WMA Player</p> <ul style="list-style-type: none"> • DVD-Video/Video CD/MP3/WMA CD player • Built-in Linear PCM/Dolby Digital decoder • DVD-R/DVD-RW¹ and CD-R/CD-RW² playback • Region Number: 2 <p>DVD Capabilities</p> <ul style="list-style-type: none"> • DVD-Video/Video CD Playback with Direct Search Chapter/Track, Next/Previous Chapter/Track, Fast forward/reverse, Pause, Track/Chapter Repeat, Condition Memory [30 discs], Play back Control (Video CD only), Direct Search Title, Time Direct Search, Scan, Digital Direct • DVD Auto Play*, DVD Bookmark Play, DVD Eject Bookmark Play <p>CD Capabilities</p> <ul style="list-style-type: none"> • CD Playback with Track Scan/Pause/Repeat, Random Play, CD Text, List Search 	<ul style="list-style-type: none"> • 96KHz/24-bit DAC • 24-bit D/A converter • Fast forward/reverse • Track Search/Scan/Repeat • Track/Manual search • Last position memory (for CD function only) <p>Tuner</p> <ul style="list-style-type: none"> • Adaptive RDS [PI, PS, AF, TP/TA] • PTY (Search and Alarm) • News interrupt feature • Radio Text • D4Q Digital AM/FM Tuner • BSA [Best TP Station Auto Search] • High speed PLL Synthesiser tuner • PNS [Pulse Noise Suppressor] • 24 Presets • BSM [Best Stations Memory] <p>Audio Visual</p> <ul style="list-style-type: none"> • PAL/NTSC compatible RGB input • 1 RCA AV input • 1 RCA AV output • 1 RCA Audio Output for rear entertainment • Back-up camera input • RGB Input for Navigation system • AV Bus input • 10-bit DAC (Video) • 24-bit DAC (Audio) <p>Audio</p> <ul style="list-style-type: none"> • MOSFET 50 W x 4 max. output power (watts) • 4 x 27 W DIN output power watts (DIN 45324, +B = 14.4 V) 	<ul style="list-style-type: none"> • Optimum sound reproduction for in-car environment: <ul style="list-style-type: none"> - Built-in EEQ (Easy EQ) Plus system with 5-mode factory preset equaliser, 2 custom preset equalisers, 3-band parametric equaliser, Source Equalisation Memory, 3-mode Loudness, and HPF/LPF Network • SFEQ (Sound Focus Equaliser) • Direct Sub Drive • Loudness • Source Level Adjuster • Fader • 3-channel Hi-Volt (4 V) RCA Pre-Outs (Front + Rear + Subwoofer) <p>General</p> <ul style="list-style-type: none"> • Multi-CD Control • ITS (Instant Track Selection) for MCD • Source TV Control • DAB Tuner Control • Source DVD Control • External unit control via IP-Bus [2] • Multi-channel surround sound ready (with DEQ-P6600 Digital Signal Processor) • AUX-In • Standard remote control • ISO Connector • Rotary volume • Removable Front Panel with safety warning beep • Dual button illumination (green/red) • Cellular telephone auto muting • Flexible angle installation [0 — 60°] <p>* Some discs may not fully operate on this system.</p>
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DEQ-P6600 | MULTI-CHANNEL DIGITAL SIGNAL PROCESSOR

<ul style="list-style-type: none"> • 5.1 Multi-Channel Surround capability: <ul style="list-style-type: none"> - Linear PCM/Dolby Pro Logic/DTS Decoder - 6-channel DAC and built in DSP - Digital sound Field Control (SFC) for Multi channel Sources [Musical/Drama/Action/Jazz/Hal/Club] • Optimum sound reproduction for in-car environment: <ul style="list-style-type: none"> - Listening Position Selector with rear position [FR, FL, RR, RL, R, ALL, OFF] 	<ul style="list-style-type: none"> - Time Alignment [0 — 500 cm] - Optimum downmix for normal speaker lay-out • MOSFET 50 W x 5 max. output power (watts) • IP Bus In/Out • 6 RCA pre-outs [FR + FL + RR + RL + Centre + Subwoofer] • Parametric Equaliser [Flat/Super Vass/Powerful/Natural/Vocal/Custom1/Custom2] 	<ul style="list-style-type: none"> • 24 bit D/A converter • Cellular telephone muting
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AVD-W8000 | 8-INCH WIDE-SCREEN LCD COLOUR DISPLAY

<ul style="list-style-type: none"> • 8-inch wide TFT active matrix LCD colour display • High-quality anti-glare coating • RGB input for Navigation system [with optional cable CD-65 RGB] • 2 RCA AV Inputs [PAL/NTSC Video & L + R Audio] 	<ul style="list-style-type: none"> • with S-Video • 1 RCA AV Output [PAL/NTSC Video & L + R Audio] • Auto Display brightness and backlight adjustment • Remote Control sensor • Built-in high-quality speaker [36 mm] with volume control 	<ul style="list-style-type: none"> • Selectable wide-screen mode [Just/Full/Cinema/Zoom/Normal]
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AVD-W6210 | 6.5-INCH WIDE-SCREEN LCD COLOUR TOUCH PANEL DISPLAY

<ul style="list-style-type: none"> • 6.5-inch wide TFT active matrix LCD colour display • High quality anti-glare coating • RGB input for Navigation system • 2 RCA AV Inputs [PAL/NTSC Video & L + R Audio] • 1 RCA AV Output [PAL/NTSC Video & L + R Audio] 	<ul style="list-style-type: none"> • Auto Display brightness and backlight adjustment • Remote Control sensor • Built-in high-quality speaker [36 mm] with volume control • Selectable wide-screen mode [Just/Full/Cinema/Zoom/Normal] 	<ul style="list-style-type: none"> • Touch Panel operation ready [with CNDV-40MT] • Smoothly trimmed product edge for easy installation
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AVD-W6200 | 6.5-INCH WIDE-SCREEN LCD COLOUR DISPLAY

<ul style="list-style-type: none"> • 6.5-inch wide TFT active matrix LCD colour display • High-quality anti-glare coating • Built-in high-quality speaker [36 mm] with volume control • 2 RCA AV Inputs [PAL/NTSC Video & L + R Audio] • 1 RCA AV Output [PAL/NTSC Video & L + R Audio] 	<ul style="list-style-type: none"> • Power Supply In • Auto Display brightness and backlight adjustment • Selectable wide-screen mode [Just/Full/Cinema/Zoom/Normal] • Semi-quick release mechanism 	<ul style="list-style-type: none"> • Smoothly trimmed product edge for easy installation • Optional installation kit available
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AVR-W6100 | 6.5-INCH WIDE-SCREEN LCD COLOUR DISPLAY FOR ROOF MOUNT

<ul style="list-style-type: none"> • 6.5-inch wide TFT active matrix LCD colour display • High-quality anti-glare coating • 2 RCA AV inputs [1 via standard AV remote cable] • 1 optional extra RCA input with CD-AR600 AV remote cable 	<ul style="list-style-type: none"> • 1 RCA AV output • Power Supply In • Auto Display brightness and backlight adjustment • Remote Control sensor • Selectable wide-screen mode 	<ul style="list-style-type: none"> • [Just/Full/Cinema/Zoom/Normal] • Wired Headphone mini jack 2 • Dome Light
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GEX-6100TVP | OPTIONAL TV TUNER FOR AVR-W6100

<ul style="list-style-type: none"> • PAL TV Tuner • 24 Station Presets [12TV1/12TV2] by BSSM [Best Station Sequential Memory] <p>System Features</p> <ul style="list-style-type: none"> • Country setting • Picture Colour/Sharpness adjustment 	<p>System Connection Features</p> <ul style="list-style-type: none"> • For AVR-W6100 cable output • Antenna included <p>Specifications</p> <p>TV Tuner:</p> <ul style="list-style-type: none"> - Reception channels/TV system: CCIR/B, G, H, K: VHF 2-12ch, UHF: 21-69ch, 	<p>ITALY/B, G, H, K: VHF A-H2ch, UHF: 21-69ch, UK/IRE: UHF 21-69ch, OIRT/G,H, F, K: R1-R12ch, UHF21-69ch</p> <p>- Colour system: TV: PAL Video: PAL</p>
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CD-VS33 | AV SELECTOR

<ul style="list-style-type: none"> • 3 RCA AV Outputs [PAL/SECAM*/NTSC Video & L + R Audio] in hide-away box • 2 RCA AV Inputs [PAL/SECAM*/NTSC Video & L + R Audio] in hide-away box • 1 RCA AV Input [PAL/SECAM*/NTSC Video & L + R Audio] 	<ul style="list-style-type: none"> • on the control panel • 2 Independent Headphone outputs with volume control [AV out 1, AV out 3] on the control panel • Audio/Video independent selector for 3 Video Source Outputs 	<ul style="list-style-type: none"> • Slim profile control panel • * Cannot accept SECAM L, as used in France.
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XDV-P9-II | MULTI-DVD PLAYER WITH DOLBY DIGITAL/DTS DIGITAL OUTPUT

- 6-Disc DVD-Video/VideoCD/CD Player
- Built-in MPEG 2/1 decoder
- 24-bit D/A converter
- Stand-alone use with optional remote and remote sensor for rear AV entertainment
- Optical digital output for Multi-Channel AV Headunit (DTS/Dolby Digital/Dolby Pro Logic/Linear PCM)
- Analogue IP-Bus output for front + RCA output for rear
- RCA Video Output (Front + Rear)
- GUI control with new OSD
- Region Number: 2

SDV-P7 | SINGLE DVD PLAYER WITH DIGITAL OUTPUT

- DVD-Video/VideoCD/CD Player
 - Built-in MPEG 2/1 decoder
 - 24-bit D/A converter
 - DVD-R/DVD-RW¹ and CD-R/CD-RW² playback*
 - Stand-alone use with standard remote and remote sensor for rear AV entertainment
 - GUI control with new OSD
 - Optical digital output for multi-channel AV Headunit (DTS/Dolby Digital/Dolby Pro Logic/Linear PCM)
 - IP-Bus input/output
 - AV-Bus output
 - Analogue IP-Bus output for front + RCA output (L + R audio) for rear entertainment
 - RCA video output (Front + Rear)
 - Joystick remote controller
 - 1-DIN or hide-away installation
 - Flap design with removable front panel
 - White display illumination
 - Region Number: 2
- * Can play DVD-R/DVD-RW discs recorded in Video format (Video Mode) only. Cannot play DVD-RW recorded in Video recording format (VR Mode).¹**

SE-IRM250 | INFRARED HEADPHONE

- Cordless Stereo Headphone
- Infrared Type
- Noise Mute Function
- Volume Adjustment Included
- Automatic Power Off Function

DVH-P5000MP | HIGH POWER DVD/MP3 TUNER

- Tuner**
- Adaptive RDS (PI, PS, AF, TP/TA)
 - PTY (Search and Alarm)
 - News interrupt feature
 - Radio Text
 - D4Q Digital AM/FM Tuner
 - BSA (Best TP Station Auto Search)
 - High speed PLL Synthesiser tuner
 - PNS (Pulse Noise Suppressor)
 - 24 Presets
 - BSM (Best Stations Memory)
- DVD/CD/MP3 Player**
- DVD Video/Video CD/MP3 CD Player
 - DVD-R/DVD-RW¹ and CD-R/CD-RW² playback
 - Region Number: 2
 - 10-bit D/A converter (Video)
 - 24-bit D/A converter (Audio)
- DVD Capabilities**
- DVD-Video/Video CD Playback with Direct Search Chapter/Track/Title/Group, Next/Previous, Fast Forward/Reverse, Pause, Track/Chapter Repeat, Condition Memory (30 discs), Playback Control (Video CD only), Direct Search Title/Group/Chapter/Track/Time
- CD Capabilities**
- CD Playback with Track Scan/Pause/Repeat, Random Play, Disc Title Memory, CD Text, List Search
 - 96 kHz/24-bit DAC
 - 24-bit D/A converter
 - Fast forward/reverse
 - Track Search/Scan/Repeat
 - Track/Manual search
 - Last position memory
 - Disc Title Memory
- Audio Visual**
- IP-Bus input
 - Optical digital output
 - RCA Audio output (L + R) for rear entertainment
 - RCA Video output (Front + Rear)
- Audio**
- MOSFET 50 W x 4 max. output power (watts)
 - 4 x 27 W DIN output power (watts (DIN 45324, +B = 14.4 V))
 - Built-in EEQ (Easy EQ) Plus system with 5-mode factory preset equaliser, 2 custom preset equalisers, 3-band parametric equaliser, Source Equalisation Memory, 3-mode Loudness, and HPF/LPF Network
 - SFEQ (Sound Focus Equaliser)
- Direct Sub Drive
 - L/R level meter
 - Level Indicator
 - Loudness
 - Source Level Adjuster
 - Fader
 - 2 RCA Pre-Outs (Front + Subwoofer or Non Fading)
- General**
- Multi-CD Control
 - ITS (Instant Track Selection) for MCD
 - Source TV Control
 - DAB Tuner Control
 - Source DVD Control
 - External unit control via IP-Bus (2)
 - AUX-In (with optional CD-RB20)
 - Standard remote control
 - ISO Connector
 - Digital clock
 - Multi-colour LCD Display
 - Flap-type Front Panel
 - Removable Front Panel
 - Cellular telephone auto muting
 - Flexible angle installation (0 – 30°)

GEX-P6400TVP | HIDE-AWAY TV TUNER

- PAL TV tuner
 - 12 Station presets (12TV1/12TV2) by BSSM (Best Station Sequential Memory)
- System Features**
- Country setting
 - 4 Channel diversity antenna system (with optional antenna kit AN-G3)
 - Card-type remote control
- System Connection Features**
- IP Bus Input/Output (controlled by AV Headunit, AV System Master and selected no. of Pioneer IP Bus headunits)
 - 1 RCA AV Output (PAL/Video & L + R Audio) for rear display
- Specifications:**
- TV tuner:
- Reception channels/TV system:
- CCIR/B, G, H, K: VHF 2-12ch, UHF: 21-69ch, ITALY/B, G, H: VHF A-H2ch, UHF: 21-69ch, UK, Ireland/I: A-Kch, UHF 21-69ch, OIRT/D, K: R1-R12ch, UHF21-69ch
- Colour system:
TV: PAL compatible

DEH-P900HDD* | HARD DISK DRIVE HEADUNIT

- Tuner**
- Adaptive RDS (PI, PS, AF, TP/TA)
 - PTY (search & alarm)
 - News interrupt feature
 - ARC 5 FM
 - BSA (Best TP Station Auto Search)
 - High speed PLL Synthesiser tuner
 - PNS (Pulse Noise Suppressor)
 - 24 Presets
 - BSM (Best Stations Memory)
- CD Player**
- Fast Forward/Reverse
 - Track Search/Scan/Repeat
 - Track/Manual Search
 - Random Play
 - Last Position Memory
 - Disc Title Memory
 - CD Text
 - CD-R/CD-RW Playback
 - CD-ROM
- Hard Disk Drive**
- Play list folder: rec. date (all)/Digital/Analogue/Artist/Custom
 - 6 custom play list
 - Scan, Repeat (Track/Play list/Play list folder), Random play, Pause
- Pre-installed Gracenote CDDB®
 - Title input
 - Erase
 - 10 GB Storage
 - Digital/Analogue Recording (w/o tuner)
 - 132 kbps/105 kbps recording bit rate
 - ATRAC3 Encode/Decode
 - Check-IN/OUT (Memory Stick)
- Audio**
- MOSFET 50 W x 4 max. output power (watts)
 - 4 x 27 W DIN output power (watts: DIN 45324, +B = 14.4 V)
 - Built-in DSP with 13-band Graphic Equaliser, Listening Position Selector, 5-mode Preset Equaliser, 2-mode User Preset Equaliser, Source Equalisation Memory, 4-mode Sound Field Control, Time Alignment, Auto EQ, 2-mode Octaver, BBE, HPF, LPF
 - Digital ASL (Automatic Sound Leveliser)
 - ASL (Automatic Sound Leveliser)
 - Spectrum analyser
 - Level indicator
 - Loudness
 - Source level adjuster
 - Fader
 - 3 gold-plated RCA pre-outs (Front + Rear + Subwoofer)
- General**
- Multi-CD Control
 - ITS (Instant Track Selection)
 - Disc Title Memory
 - CD Text
 - Digital Compression/Dynamic Bass Emphasis
 - Source TV Control
 - DAB Tuner Control
 - External Unit Control via IP-Bus
 - AUX-In (with optional CD-RB20)
 - Standard remote control
 - ISO Connector
 - Digital clock
 - OEL-Blue display illumination
 - Soft Key Operation
 - Pop-Out rotary volume
 - Flat-type Front Panel
 - Removable Front Panel
 - Cellular telephone auto muting
 - Flexible angle installation (0 – 30°)
- MagicGate Memory Stick**
- 1 Slot
 - Track scan/Repeat/Random Play/Pause
- * Not available in the UK.**

¹ Even if a DVD-R(W) disc is recorded in Video format (Video Mode), it may not be playable as a result of scratches, dirt or characteristics specific to the disc, or dirt or condensation on the pickup lens. DVD-R(W) discs that haven't been finalised, cannot be played. In general, discs recorded in the current format using a PC (personal computer) are playable. However, certain settings and application software environments may not be able to play these discs. Please ask your application software sales agent for more details.
² Use finalised music CD-R(W) discs for playback. In some cases, CD-R(W) discs may not play back correctly, unless they have been recorded using a CD-R(W) unit for recording music. Furthermore, CD players may not play back music CD-R(W) discs recorded from a music CD-R(W) recorder as a result of scratches, dirt or characteristics specific to these discs, or dirt or condensation on the pickup lens. Text information such as titles recorded on CD-R(W) discs may not be displayed. Read directions carefully regarding disc use before handling CD-R(W) discs. Even if playback of a CD-RW disc is possible, it may take several seconds before actual sound reproduction begins.

FEATURES CD RDS TUNERS AND DAB

FEATURES CD RDS TUNERS	DEH-P9600MP	DEH-P8600MP	DEH-P80MP	DEH-P77MP	DEH-P7600MP	DEH-P6600R	DEH-P5600MP DEH-P5630MP	DEH-P3600MP DEH-P3630MP DEH-P3600MPB	DEH-P2600R	DEH-1600RB DEH-1600R DEH-1630R
TUNER										
Adaptive RDS (PI, PS, AF, TP/TA)	•	•	•	•	•	•	•	•	•	•
PTY (Search and Alarm)	•	•	•	•	•	•	•	•	•	•
News interrupt feature	•	•	•	•	•	•	•	•	•	•
Radio Text	•	•	•	•	•	•	•	•	•	•
Radio FM	D4Q	D4Q	D4Q	D4Q	D4Q	D4Q	D4Q	D4Q	D4Q	D4Q
BSA (Best TP Station Auto Search)	•	•	•	•	•	•	•	•	•	•
High speed PLL Synthesiser tuner	•	•	•	•	•	•	•	•	•	•
PNS (Pulse Noise Suppressor)	•	•	•	•	•	•	•	•	•	•
No. of presets	24	24	24	24	24	24	24	24	24	18
BSM (Best Stations Memory)	•	•	•	•	•	•	•	•	•	•
CD PLAYER										
Oversampling digital filter	8x	8x	8x	8x	8x	8x	8x	8x	8x	8x
D/A Converter	1-bit (Burr Brown)	1-bit (Burr Brown)	1-bit	1-bit (Burr Brown)	1-bit	1-bit	1-bit	1-bit	1-bit	1-bit
Fast forward/reverse	•	•	•	•	•	•	•	•	•	•
Track Search/Scan/Repeat	•	•	•	•	•	•	•	•	•	Search/Repeat
Track/Manual search	•	•	•	•	•	•	•	•	•	•
Random Play	•	•	•	•	•	•	•	•	•	•
Last position memory	•	•	•	•	•	•	•	•	•	•
Disc Title Memory	•	•	•	•	•	•	•	•	•	•
CD Text	•	•	•	•	•	•	•	•	•	•
CD-R Playback	•	•	•	•	•	•	•	•	•	•
CD-RW Playback	•	•	•	•	•	•	•	•	•	•
Compressed Audio Playback	MP3/WMA/WAV (2)	MP3/WMA/WAV (2)	MP3/WMA/WAV (2)	MP3/WMA (2)	MP3/WMA/WAV (2)		MP3/WMA/WAV (2)	MP3/WMA/WAV (2)		
AUDIO										
Max. output power (watts)	MOSFET 50 W x 4	MOSFET 50 W x 4	MOSFET 40 W x 4	MOSFET 50 W x 4	MOSFET 50 W x 4	MOSFET 50 W x 4	MOSFET 50 W x 4	MOSFET 50 W x 4	MOSFET 50 W x 4	4 x 45
DIN output power (watts: DIN 45324, +B = 14.4 V)	4 x 27	4 x 27	4 x 36	4 x 27	4 x 27	4 x 27	4 x 27	4 x 27	4 x 27	4 x 25
Built-in DSP	•	•	•	•	•	•	•	•	•	•
Graphic equaliser	13-band	13-band								
Listening Position Selector	•	•								
Preset equaliser	5-mode	5-mode								
User preset equaliser	2-mode	2-mode								
Source Equalisation Memory	•	•								
Auto Time Alignment	•	•								
Auto EQ	•	•								
BBE	•	•								
HPF	•	•								
LPF	•	•								
Digital ASL (Automatic Sound Leveliser)	•	•								
3-way network	•	•								
EQ Plus										
EQ										
5-mode preset equaliser (3)										
Custom preset equaliser			1	1	2	2	2	1	1	1
3-band parametric equaliser										
Source Equalisation Memory										
Selectable Loudness										
Selectable FIE (Front Image Enhancer)										
HPF										
LPF										
EQ-EX										
SFEQ (Sound Focus Equaliser)										
ASL (Automatic Sound Leveliser)										
Direct Sub Drive										
Spectrum analyser	•	•								
L/R level meter	•	•								
Level Indicator	•	•			• (x2)	• (x2)	• (x2)			
Loudness	•	•								
Source level adjuster	•	•								
Fader	•	•								
RCA Pre-Out	3 (F + R + S/W)	3 (F + R + S/W)	3 (F + R + S/W or Non FAD)	3 (F + R + S/W or Non FAD)	3 (F + R + S/W or Non FAD)	2 (F + S/W or Non FAD)	2 (F + S/W or Non FAD)	2 (F + R)	1	1
High Voltage Output	•	•								
GENERAL										
Multi-CD Control	•	•	•	•	•	•	•	•	•	•
CD Text	•	•	•	•	•	•	•	•	•	•
Source TV Control	•	•	•	•	•	•	•	•	•	•
DAB Tuner Control	•	•	•	•	•	•	EXT	EXT	EXT	EXT
Source DVD Control	•	•	•	EXT	•	•	EXT	EXT	EXT	EXT
List search function	•	•	•	•	•	•	•	•	•	•
External unit control via IP-Bus	2	2	2	2	2	2	2	2	2	2
AUX-In (with optional CD-RB20)	•	•	•	•	•	•	•	•	•	•
Standard remote control	•	•	•	•	•	•	•	•	•	•
Remote Control Ready	•	•	•	•	•	•	•	•	•	•
Hard-wired remote input	•	•	•	•	•	•	•	•	•	•
ISO Connector	•	•	•	•	•	•	•	•	•	•
Display illumination	Colour Organic EL	Colour Organic EL	OEL-NEW BLUE	WHITE	OEL-BLUE & WHITE	OEL-BLUE & WHITE	MULTI	WHITE/BLUE (DEH-P3600MPB)	WHITE	WHITE/BLUE (DEH-1600RB)
Dual button illumination	•	•	•	•	•	•	•	•	•	•
Rotary volume	•	•	•	•	Pop-out	Pop-out	Pop-out	Pop-out	Pop-out	Pop-out
Auto-flap mechanism	• (dual motion)	•	•	•	•	•	•	•	•	•
Flip-type Front Panel	•	•	•	•	•	•	•	•	•	•
Removable Front Panel	• (4)	• (4)	• (4)	• (4)	• (4)	• (4)	• (4)	• (4)	• (4)	•
Cellular telephone auto muting	•	•	•	•	•	•	•	•	•	•
Speaker input for hands-free	•	•	•	•	•	•	•	•	•	•
Flexible angle installation	0 - 60°	0 - 60°	0 - 60°	0 - 60°	0 - 60°	0 - 60°	0 - 60°	0 - 60°	0 - 60°	0 - 60°
Multi-language display	•	•	•	•	•	•	•	•	•	•

(1) Without scan (2) With Repeat Play (File/Current Folder) (3) Superbass/Powerful/Natural/Vocal/Flat (4) With safety warning beep.

FEATURES DAB TUNER	GEX-P700DAB FULL CONTROL	GEX-P700DAB EXTERNAL CONTROL
Auto seek, Ensemble seek	•	•
Service up/down	•	•
Switching between Primary/Secondary services	•	•
18 Services preset memory	•	•
Preset recall, channel up/down, band switch (DAB 1/2/3)	•	•
Label display selection (Ensemble/Service/Service Component/PTY)	•	•
Dynamic Label Segment Headline	•	•
PTY selection/search	•	•
Available PTY List	•	•
Preset List Search	•	•
Announcement support (AS): Alarm, Traffic, News, Transport, Warning, Weather, Event, Special Event, Information, Finance	•	•
DLS (Dynamic Label Segment) scrolling	•	•
Service Following (SF), DAB-DAB and DAB-RDS*	•	•
Service settings menu (AS/SF/Primary-Secondary/DLS)	•	•

* Not available in Germany.

FEATURES DOUBLE-DIN, CASSETTE TUNERS AND MCD

FEATURES DOUBLE-DIN AND CASSETTE TUNERS	FH-P4100R	KEH-P7020R	KEH-P6020R KEH-P6020RB	KEH-P4020R KEH-P4023R	KEH-P2030R KEH-P2033R	KEH-1033 KEH-1032
TUNER						
Adaptive RDS (PI, PS, AF, TP/TA)	•	•	•	•	•	•
PTY (Search and Alarm)	•	•	•	•	•	•
News interrupt feature	•	•	•	•	•	•
Radio Text	•	•	•	•	•	•
ARC FM	ARC 5	ARC 5	ARC 5	ARC 5	ARC 5	ARC 5
BSA (Best TP Station Auto Search)	•	•	•	•	•	•
High speed PLL Synthesiser tuner	•	•	•	•	•	•
PNS (Pulse Noise Suppressor)	•	•	•	•	•	•
No. of presets	24	24	24	18	18	24
BSM (Best Stations Memory)	•	•	•	•	•	•
CASSETTE						
Auto-Reverse	•	•	•	•	•	•
Full Logic Control	•	•	•	•	•	•
Dolby NR	B	B	•	•	•	•
Meta! 70's Tape Selector	AUTO	AUTO	AUTO	•	•	•
Music Search	•	•	•	•	•	•
Blank Skip and Repeat	•	•	•	•	•	•
Radio Intercept	•	•	•	•	•	•
Playing Time Tape Counter	•	•	•	•	•	•
Head *	•	•	•	•	•	•
CD PLAYER						
Oversampling digital filter	8x	•	•	•	•	•
D/A Converter	1-bit	•	•	•	•	•
Track Search/Scan/Repeat	•	•	•	•	•	•
Random Play	•	•	•	•	•	•
Last position memory	•	•	•	•	•	•
Disc Title Memory	•	•	•	•	•	•
CD Text	•	•	•	•	•	•
CD-R Playback	•	•	•	•	•	•
CD-RW Playback	•	•	•	•	•	•
AUDIO						
Max. output power [watts]	MOSFET 50 W x 4	MOSFET 50 W x 4	MOSFET 50 W x 4	MOSFET 50 W x 4	4 x 40	4 x 40
DIN output power	4 x 27	4 x 27	4 x 27	4 x 27	4 x 22	4 x 22
[watts, DIN 45328, +B = 14.4 V]						
Built-in DSP	•	•	•	•	•	•
EQ Plus	•	•	•	•	•	•
EQ	•	•	•	•	•	•
5-mode preset equaliser [1]	•	•	•	•	•	•
Custom preset equaliser	2	2	2	1	•	•
3-band parametric equaliser	•	•	•	•	•	•
3-band equaliser	•	•	•	•	•	•
Source Equalisation Memory	•	•	•	•	•	•
Selectable Loudness (3-mode)	•	•	•	•	•	•
Selectable FIE (Front Image Enhancer)	•	•	•	•	•	•
HPF	•	•	•	•	•	•
LPF	•	•	•	•	•	•
SFEQ (Sound Focus Equaliser)	•	•	•	•	•	•
ASL (Automatic Sound Leveliser)	•	•	•	•	•	•
Direct Sub Drive	•	•	•	•	•	•
Spectrum analyser	•	•	•	•	•	•
L/R level meter	•	•	•	•	•	•
BTB (Bass/Treble booster)	•	•	•	•	•	•
2-mode Loudness	•	•	•	•	•	•
Source level adjuster	•	•	•	•	•	•
Fader	•	•	•	•	•	•
RCA Pre-Out	2 (F + R or S/W)	3 (F + R + S/W or Non Fnd)	2 (F + R or S/W)	1	1	•
GENERAL						
Multi-CD Control/CD Ready	•	•	•	•	•	•
ITS (Instant Track Selection)	•	•	•	•	•	•
Disc Title Memory	•	•	•	•	•	•
CD Text	•	•	•	•	•	•
Digital Compression/Dynamic Bass Emphasis	•	•	•	•	•	•
Source TV Control	•	•	EXT	EXT	EXT	•
Source CD Control	•	•	EXT	EXT	EXT	•
DAB Tuner Control	EXT	•	EXT	EXT	EXT	•
External unit control via IP-Bus	2	2	1	1	1	•
AUX-In (with optional CD-RB20)	•	•	•	•	•	•
Remote Control Ready	•	•	•	•	•	•
Standard remote control	•	•	•	•	•	•
ISO Connector	•	•	•	•	•	•
Display illumination	BLUE	OEL-BLUE	MULTI/BLUE (3)	MULTI	SINGLE	SINGLE
Dual button illumination	(2)	•	•	•	•	•
Rotary volume	•	Pop-up	Pop-up	•	•	•
Flap-type Front panel	•	•	•	•	•	•
Removable Front Panel	• (4)	• (4)	• (4)	•	•	•
Cellular telephone auto muting	•	•	•	•	•	•
Hands-free ready	•	•	•	•	•	•

* SAT TWIN-CUT (1) Superbass/Powerful/Natural/Vocal/Flat (2) FH-P4100R: VW red button illumination (3) Multi-colour illumination: KEH-P6020R, blue illumination: KEH-P6020RB (4) With safety warning beep

FEATURES MULTI-CD PLAYERS	CDX-P1270	CDX-P670	CDX-FM657
CD PLAYER			
Oversampling digital filter	8x	8x	8x
D/A converter	1-bit	1-bit	1-bit
Fast forward/reverse	•	•	•
Track Search/Scan/Repeat	•	•	• [1]
Track/Manual search	•	•	•
Random Play	• [2]	• [3]	• [3]
ITS (Instant Track Selection)	• [4]	• [4]	• [4]
ADPS (Automatic Disc Programming Selection)	•	•	•
Last Position Memory	•	•	•
Disc Title Memory	•	•	•
CD Text	•	•	•
CD-R Playback	• [5]	• [5]	•
CD-RW Playback	• [5]	• [5]	•
GENERAL			
IP-Bus Output	•	•	•
Standard Remote Control	•	•	•
Display illumination	•	•	AMBER
Flexible angle installation	0 – 90°	0 – 90°	0 – 90°

(1) Without scan (2) Overall 12 discs (3) Overall 6 discs (4) With FH-P4100R, DEH-P9600MP, DEH-P8600MP, DEH-P7600MP, KEH-P7020R (5) With Skip Play

FEATURES AND SPECIFICATIONS PRS

DEX-P9R | COMPONENT CD/RDS TUNER

<p>Tuner</p> <ul style="list-style-type: none"> RDS (PI, PS, AF, TP/TA), PTY (Search and Alarm), News Interrupt feature and Radio Text High Speed PLL ARC 5 Synthesiser tuner with BSA (Best TP Station Auto Search), BSM (Best Stations Memory) and PNS (Pulse Noise Suppressor) 24 Station Presets <p>CD Player</p> <ul style="list-style-type: none"> 24-bit D/A converter with 8 times Oversampling Digital filter Fast forward/reverse Track Search/Scan/Repeat Track/Manual search Random Play Last Position Memory Disc Title Memory CD Text 	<ul style="list-style-type: none"> CD-R/CD-RW playback with Skip Play <p>Audio</p> <ul style="list-style-type: none"> Separate Bass/Treble Source Level Adjuster Fader 3 Gold-plated RCA pre-outs (Front + Rear + Non Fading) High Voltage output IP-Bus input/output Optical input/output <p>General</p> <ul style="list-style-type: none"> Multi-CD Control with Disc Title Memory and CD Text Source TV Control DAB Tuner Control Source DVD Control External Unit Control via IP-Bus (2 units) 	<ul style="list-style-type: none"> AUX-In (with optional CD-RB20) Slide-type Remote Control Digital Clock OEL blue-colour display illumination Display Off Auto-flap mechanism Removable front panel with safety warning beep Cellular telephone auto muting Flexible angle installation (0 – 60°) Copper-plated chassis Aluminium finished front panel
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DEQ-P9 | DIGITAL PREAMP/EQUALISER

<ul style="list-style-type: none"> 31-Band L/R independent graphic equaliser (1/3 oct) with level control (0.5 step, ± 12 dB) 4-Way independent L/R crossover network (High, Mid, Low, Subwoofer) <ul style="list-style-type: none"> Crossover frequency: 20 Hz – 20 kHz (1/3 oct) Slope: 0°, -6, -12, -18, -24, -30, -36 dB/oct Time Alignment for clear sound focus Listening Position selector (FR/FL/F/OFF) 	<ul style="list-style-type: none"> 24-bit Burr-Brown D/A converters High performance 8 times oversampling digital filter Optical Input for connection with DEX-P9R High Voltage output Gold-plated 8-channel RCA output (High/Mid/Low/Subwoofer) Parametric Bass/Treble Electronic Volume 	<ul style="list-style-type: none"> Gold-plated Power Screw Terminals Copper-plated chassis Installation Kit <p>* Not available for HPF of high mode.</p>
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PRS AMPLIFIERS FEATURES	PRS-X340	PRS-X320	PRS-X220*
Max. output power	4 x 150 W 2 x 500 W	2 x 200 W 1 x 800 W	2 x 120 W 1 x 400 W
Continuous output power (RMS) (14.4 V)	4 x 37.5 W 4 x 75 W 2 x 150 W	2 x 50 W 2 x 100 W 1 x 200 W	2 x 30 W 2 x 60 W 1 x 120 W
DIN output power (DIN 45324, +B = 14.4 V)	4 x 115 W or 2 x 360 W	2 x 163 W or 1 x 486 W	2 x 87 W or 1 x 313 W
Variable Crossover network			
A channel			
B channel			
Low Frequencies (-12 dB/oct)			
High Frequencies (-12 dB/oct)			
LPF/HPF Network (-12 dB/oct)	LPF-Low, LPF-High, HPF-Low, BPF, LPF-Low, LPF-High, HPF-Low, HPF-High		
40 – 120 Hz		50 – 120 Hz	50 – 120 Hz
3 – 9 kHz			
Input level/gain control	•	•	•
PWM Regulated MOSFET power supply	•	•	•
High Voltage Input capability (400 mV – 6.5 V)	•	•	•
Low load impedance capability (1 – 8 Ω)	•	•	•
Variable Bass Emphasis (0 – 18 dB)	•	40 – 120 Hz	60 Hz
Subsonic filter: 15 Hz (-24 dB/oct)	•	•	•
Gold-plated RCA input and output terminals	•	•	•
(full range) enabling Link Top connection	•	•	•
Gold-plated screw-type speaker terminals	•	•	•
Screw-type speaker terminals	•	•	•
Large gold-plated power/ground terminals (screw type)	•	•	•
High performance balanced isolator circuit	•	•	•
Reversible endcaps for installation versatility	•	•	•
MOSFET output section	•	•	•

Warning: Pioneer Power Series amplifiers are designed to supply higher output power than conventional amplifiers. Therefore, please use a subwoofer whose nominal input power is about twice the connected Power Series amplifier's continuous output power.

*** Not available in the UK.**

PRS AMPLIFIERS SPECIFICATIONS	PRS-X340	PRS-X320	PRS-X220*
DIN output power (DIN 45324, +B = 14.4 V)	4 x 115 W or 2 x 360 W	2 x 163 W or 1 x 486 W	2 x 87 W or 1 x 313 W
Continuous output power (RMS) watts 14.4 V	4 x 37.5 (0.04 %) 4 x 75 (0.4 %) 2 x 150 (0.4 %)	2 x 50 (0.08 %) 2 x 100 (0.8 %) 1 x 200 (0.8 %)	2 x 30 (0.08 %) 2 x 60 (0.8 %) 1 x 120 (0.8 %)
watts 14.4 V (Bridged 4 Ω)	4 x 37.5 (0.04 %) 4 x 75 (0.4 %) 2 x 150 (0.4 %)	2 x 50 (0.08 %) 2 x 100 (0.8 %) 1 x 200 (0.8 %)	2 x 30 (0.08 %) 2 x 60 (0.8 %) 1 x 120 (0.8 %)
Frequency Response (Hz) (+0 dB, -1 dB)	10 – 50,000	10 – 50,000	10 – 50,000
Distortion (%)	0.05 (10 W/1 kHz)	0.01 (10 W/1 kHz)	0.05 (10 W/1 kHz)
S/N Ratio	105	100	100
Input Level Control	400 mV – 6.5 V	400 mV – 6.5 V	400 mV – 6.5 V
Max. Current consumption (A/4 Ω)	43.7	32.5	19.2
Chassis Size (W x H x D mm)	264 x 65 x 345	264 x 65 x 290	264 x 65 x 240
Unit Weight (kg)	7.0	5.5	4.5

TS-T3PRS | 1-1/4" [30 mm] FLUSH MOUNT SOFT DOME TWEETER

- 30 mm Polyester fibre diaphragm
- Large neodymium magnet (30.5 g)
- Die-cast aluminium flange
- Die-cast aluminium back chamber
- Removable metal mesh protector
- Flush mount application
- Maximum input power: 200 W
- Nominal input power: 60 W
- 1,000 – 30,000 Hz, 92 dB (1 W/1 m)
- Recommended crossover frequency: 3,000 Hz
- Nominal impedance: 8 Ω

Revc (Ω)	Levc (mH)
6.5	0.03

TS-M7PRS | 6-3/4" [17 cm] MID-BASS DRIVER

- KEVLAR® brand Fibre composite cone woofer
- Ready for small enclosure application (e.g. kick panel) Recommended enclosure volume: 5 Litres
- Symmetrically Balanced Butyl Rubber Surround
- Aluminium die-cast frame
- Gold-plated binding post-screw terminals
- Maximum input power: 200 W
- Nominal input power: 60 W
- 28 – 10,000 Hz, 91 dB (1 W/1 m)
- Nominal impedance: 4 Ω

Revc (Ω)	Levc (mH)	Fs (Hz)	Zmax (Ω)	Qms	Qes	Qts	Vas (cu ft/Liters)
3.6	0.36	48	43	4.58	0.42	0.38	0.39/11.1
Rms (Ns/m)	Mms (g)	Cms (m/N)	BL (T m)	Sd (sq in/sq m)	Hvc (in/mm)	Hag (in/mm)	Displacement (cu ft/liters)
1.15	15.4	5.57E-04	6.76	18.5 0.012	0.48 12.24	0.24 6	0.015 0.42

TS-W12PRS | 12" [30 cm] DUAL VOICE COIL C-TYPE SUBWOOFER

- KEVLAR® brand Fibre composite cone woofer
- Dual-Layer rolled Urethane Surround
- Dual 4 Ω Voice Coil design (2 or 8 Ω)
- 2 Ω rated (parallel wired)
- 8 Ω rated (series wired)
- VCCS (Voice Coil Cooling System)
- 4-Spoke aluminium die-cast frame
- Gold-plated binding post-screw terminals
- Low-Q design for use in small sealed box (28 Liter +/- 10 % recommended)
- Maximum input power: 1200 W
- Nominal input power: 300 W
- 15 – 2,000 Hz, 92 dB (1 W/1 m)

SEALED ENCLOSURE SERIES				LOW "Q" SERIES SUBWOOFERS FOR SEALED BOX				
Revc (Ω)	Levc (mH) (8 Ω/2 Ω)	Zmax (Ω) (8 Ω/2 Ω)	Fs (Hz)	Qms	Qes	Qts	Vas (cu ft) (Mers/m)	Rms (Ns/m)
dual	1.61	175	24	9.00	0.41	0.39	3.3	2.3
3.6	0.40	43.8					93	
Mms (g)	Cms (m/N) (sq m)	Diam (in) (8 Ω/2 Ω)	Sd (sq in) (mm)	BL (T m) (mm)	Xmax (in) (mm)	Hvc (in) (mm)	Hag (in) (mm)	
135	3.15 x 10-4	9.5 241	70.9 0.0456	19.46 9.73	0.53 13.5	1.56 39.5	0.47 12.0	
Model		Cutout Hole		Mounting Depth (mm/inch)		Recommended enclosure volumes (cu.ft/Liters)		
TS-W12PRS		Ø 278 [11 Dia.]		133/5.25		1.0 (+/- 10 %) 28 (+/- 10 %)		

UD-N2PRS | 2-WAY, PASSIVE CROSSOVER NETWORK

- EMI (Electromagnetic Interference) shielding chassis
- Selected quality devices
- Input capability: 200 W max, 60 W nom
- Crossover Frequency 3,000 Hz
 - Low Pass Filter (LPF) -12 dB/oct.
 - High Pass Filter (HPF) -12 dB/oct.
- Load impedance
 - Midrange (TS-M7PRS): 4 Ω
 - Tweeter (TS-T3PRS): 8 Ω
- Tweeter attenuation: 0 dB/-3 dB
- Nominal input power: 60 W

SPECIFICATIONS EUROPEAN REFERENCE SEPARATE COMPONENT SPEAKER SERIES

TECHNICAL PARAMETERS	TS-C1700R	TS-C1300R
TWEETER		
Revc (Ω)	5.7	7.5
Levc (mH)	0.02	0.04

TECHNICAL PARAMETERS	TS-C1700R	TS-C1300R
WOOFER		
Revc (Ω)	3.1	3.1
Levc (mH)	0.35	0.26
Fs (Hz)	67	74
Zmax (Ω)	21	25
Qms	4.16	4.67
Qes	0.71	0.66
Qts	0.61	0.58
Vas	0.34	0.18
(cu ft/Litres)	9.5	5.2
Rms (Ns/m)	1.49	0.94
Mms (g)	14.8	9.5
Cms (m/N)	0.000383	0.00047
BL (T m)	5.20	4.53
Sd	20.51	13.37
(sq in/sq m)	0.0132	0.00863
Hvc	0.46	0.36
(in/mm)	11.6	9.2
Hag	0.24	0.24
(in/mm)	6	6

FEATURES AND SPECIFICATIONS AMPLIFIERS AND SUBWOOFERS

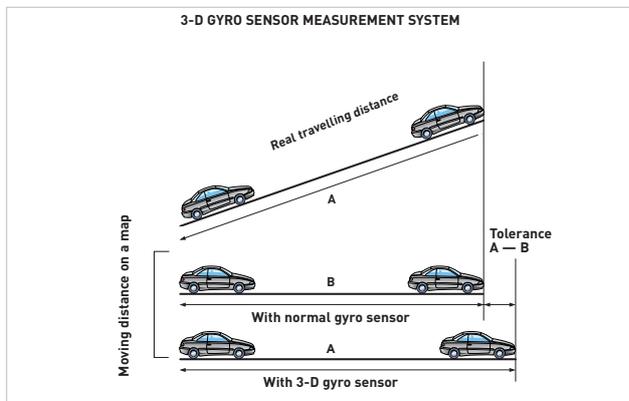
FEATURES AMPLIFIERS	GM-D510M	GM-D515	GM-6000F	GM-4000F	GM-5000T	GM-3000T
Variable LPF [-24 dB/Oct] [-12 dB/Oct]	40 – 240 Hz					
Variable HPF [-12 dB/Oct]		40 – 240 Hz	40 – 120 Hz			
LPF [-12 dB/Oct]			40 – 120 Hz			
LPF/HPF Network (A and B channel) [-12 dB/Oct]				80 Hz	80 Hz	80 Hz
Input level/gain control	•		•	•	•	•
PWM Regulated MOSFET power supply	•	•	•	•	•	•
MOSFET Output sections	•	•				
Speaker level input (A and B channel)				•		•
Load impedance capability (2 – 8 Ω)	•	•	•	•	•	•
Bass Level Control (-22 – +12 dB)	•	•	•	•	•	•
Large screw-type power/ground terminals	•	•	•	•	•	•
Screw-type speaker terminals	•	•	•	•	•	•
High-performance balanced isolator circuit	•	•	•	•	•	•
RCA input terminals	•	•	•	•	•	•
RCA output terminals			•	•		•

SPECIFICATIONS AMPLIFIERS	GM-D510M	GM-D515	GM-6000F	GM-4000F	GM-5000T	GM-3000T
DIN output power (DIN 45324, +B = 14.4 V)	1 x 490 W (4 Ω) or 1 x 630 W (2 Ω)	4 x 65 W (4 Ω) + 1 x 225 W (4 Ω) or 4 x 56 W (4 Ω) + 1 x 350 W (2 Ω)	4 x 75 W or 2 x 200 W (4 Ω)	4 x 45 W or 2 x 100 W (4 Ω)	2 x 175 W or 1 x 530 W (4 Ω)	2 x 60 W or 1 x 150 W (4 Ω)
Continuous output power (RMS) Watts 14.4 V [20 – 240 kHz/2 Ω] [20 – 240 kHz/4 Ω] [20 – 20 kHz/4 Ω] [20 – 20 kHz/2 Ω]	1 x 500 W 1 x 300 W	1 x 300 W 1 x 150 W 4 x 50 W	4 x 50 W or 2 x 120 W 4 x 60 W	4 x 35 W or 2 x 70 W 4 x 40 W	2 x 125 W or 1 x 380 W 2 x 190 W	2 x 40 W or 1 x 100 W 2 x 50 W
Frequency Response (Hz) [+0 dB, -1 dB] [+0.5 dB, -3 dB]	5 Hz – 240 Hz	10 Hz – 40,000 Hz 5 Hz – 240 Hz	10 Hz – 50,000 Hz	10 Hz – 50,000 Hz	10 Hz – 50,000 Hz	10 Hz – 45,000 Hz
Distortion (%) [10 W/1 kHz] [10 W/120 Hz]	0.03	0.01 0.03	0.008	0.008	0.008	0.008
S/N Ratio	95 dB	95 dB	95 dB	100 dB	100 dB	100 dB
High Voltage Input capability	125 mV – 6.5 V	125 mV – 6.5 V	400 mV – 6.5 V	400 mV – 6.5 V	200 mV – 6.5 V	400 mV – 6.5 V
Max. Current Consumption (A/4 Ω)	31	43.8	27.1	18.1	25	11.3
Chassis Size (W x H x D mm)	268 x 52 x 250	268 x 52 x 350	300 x 61 x 324	300 x 61 x 237	300 x 61 x 324	300 x 61 x 157
Unit Weight (kg)	2.9	3.9	5.2	3.8	5.5	2.6

SPECIFICATIONS SUBWOOFERS	TS-W5000SPL	TS-W121PL	TS-W1015PL	TS-SW124D	TS-W305C	TS-W255C	TS-W305F	TS-W255F
Interlaced Carbon Fibre Reinforced IMPP cone	30 cm							
Interlaced Glass Fibre/ Carbon Fibre Reinforced IMPP cone		30 cm	25 cm					
Interlaced Carbon/KEVLAR® brand Fibre Reinforced IMPP double cone				30 cm				
Interlaced KEVLAR® brand Fibre Reinforced IMPP cone					30 cm	25 cm	30 cm	25 cm
Double cone reinforcement nodes				•				
3-layer, KEVLAR® brand fibre woven radial rubber surround	•							
Wide-roll, overhung surround design	•							
Wide-roll, 3-layer fibre woven radial surround		•	•		•	•		
3-layer fibre woven radial surround				•			•	
Tall dual-layer surround								•
Triple-stacked high-power magnets	• [3 x 3 kg]							
Double-stacked high-power magnets		•	•					
Dual mass high-power magnet					•	•		
Dual ceramic-coated voice coils	•							
ADMG (Aero-Dynamic Magnetic Gap) design	•							
Aluminium die-cast basket with bottom hold structure	•	•	•					
Aluminium die-cast one-piece rigid chassis				•				
Extended and vented pole yoke	•	•	•	• [T-pole]	•	•	•	•
Large diameter Conex double damper with dual damper ring	•							
Large diameter Conex damper with damper ring		•	•					
Conex damper with damper ring					•	•	•	•
Damper-less, Air suspension excursion control system				•				
8-gauge wire terminal	•							
Silver binding post terminal		•	•	•				
Dual 4 ohm voice coils design (2 or 8 ohm)	•	•	•		•	•	•	•
4 ohm single voice coil design				•	•	•	•	•
Enclosure use	•	•	•	•	•	•	•	•
Free air use								
Frequency Response	18 – 2,000 Hz	18 – 2,000 Hz	18 – 2,500 Hz	18 – 1,000 Hz	18 – 2,000 Hz	18 – 2,500 Hz	20 – 2,000 Hz	20 – 2,500 Hz
Lowest Resonance Frequency [Fs]	32.2 Hz	29.9 Hz	37.3 Hz	31.7 Hz	32.7 Hz	35 Hz	26.2 Hz	35.8 Hz
Qts	0.32	0.328	0.376	0.55	0.34	0.351	0.63	0.79
Recommended Sealed Enclosure (Litres) [± 10 %]	42.5	42.5	28.3	22.64	42.5	28.3	–	–
Vas (Litres)	30.92	34.53	17.54	28.05	51.45	24.88	129.66	50.33
Sensitivity [1 W/1 m]	88 dB	89 dB	87 dB	88 dB	89 dB	87 dB	94 dB	92 dB
Nominal input power	2000 W	750 W	600 W	300 W	400 W	350 W	300 W	250 W

NAVIGATION

3-D Gyro Sensor: The 3-D Gyro Sensor allows the navigation system to take measurements in three directions — height (up/down), speed (distance) and direction (left/right) — calculate inclines, and detect special road features such as tunnels to pinpoint the driving position with utmost accuracy.



Memory Navi: The AVIC-X1's built-in Memory Navi capacity of 64 MB provides advanced navigation at the same time as offering audio entertainment or DVD-Video viewing to rear seat passengers (using an optional rear screen).

Just insert the map navigation disc, search for a destination, choose a route, and the map data for the route (with surrounding corridor) will be loaded automatically into the AVIC-X1's Memory Navi. It can hold over 400 km of routing (this figure may vary, depending on the complexity of the map information). During downloading, you can already start driving to the destination, guided by navigation instructions.

Once the route is loaded, the DVD map disc can be exchanged for a single CD, MP3 CD or DVD-Video disc. If the journey is longer than the available memory capacity, the system will request you to reinsert the navigation disc to load an extra stretch of map data. The AVIC-X1 is so clever it remembers exactly where the CD or DVD was removed and plays again from where it left off.

Half of the Memory Navi's 64 MB capacity is dedicated to storing the 'corridor' around the route (approximately 10 km radius) to the destination. If you leave the calculated route, the system will guide you back to the original path, all in a matter of seconds. If you reach the limits of the 'corridor', the system will request you to reinsert the DVD map disc. If the boundary is crossed, AVIC-X1 automatically switches to a 50 km scale map. The Memory Navi also holds the TMC traffic information of the country where the map disc was last ejected.



MERIAN Autoscout: Pioneer's Arrow-type Navigation Unit is compatible with Merian Autoscout travel guides. (See pg. 15 for full details).

POI (Point of Interest): Pioneer's new navigation DVD map discs CNDV-40M and CNDV-40MT store a very large amount of POIs (Points of Interest), over 1.3 million divided in 65 different categories! You can do a fast POI search by name or by category (destination search) to locate a particular point of interest (e.g. restaurants, petrol stations, etc.). For your convenience, brand icons of 7 petrol stations have been added, while restaurants have been classified according to kitchen 'type'. (See pg. 12 for full details).

Rotary Stick: Commanding the Arrow-type Navigation Unit is incredibly easy with the Pioneer original multi-functional 'Rotary Stick'. Rotate it to choose navigation functions needed, then push it in to activate navigation commands. It can be used like a joystick to control audio functions.

TeleAtlas: Map coverage for the DVD Cyber Navi units has been vastly extended thanks to input from TeleAtlas, Pioneer's new information provider.

TMC (Traffic Message Channel): The Navigation unit's built-in TMC (Traffic Message Channel) receiver keeps you updated on current traffic events and suggests alternative routes. Refer to maps on pages 13 and 14 for TMC coverage areas of respective Pioneer navigation units.

Note: When using the AVIC-X1's Memory Navi function, TMC is also available. However, only traffic news of the country where the journey was loaded into memory — and only up to that point in time — can be viewed. To have access to updated information, the Map DVD disc must be reloaded into the system.

Touch Panel Ready: Pioneer navigation units with this logo were designed to be used with a Pioneer touch panel display. The Graphical User Interface works seamlessly with the display, for fast and intuitive operation. Every function is immediately accessible by pressing the appropriate on-screen button or icon. Additional navigation capabilities and functions are available only when a touch panel display is used.

AV UNITS AND HEADUNITS — SOURCES

TV Tuner

PAL: PAL is the TV standard used in most of Western Europe.

Radio Tuner

ARC 5: The Automatic Reception Control system — used in all Pioneer headunits — increases sensitivity and improves FM reception.

BSM (Best Stations Memory): An ideal tuner feature for travelling. At the touch of a button, BSM scans the radio band, finds and automatically presets the 6 strongest stations.

D4Q: D4Q is Pioneer's digital AM/FM tuner. It uses a digital processing technique, which improves the audio performance and selectivity of the receiver, allowing you to enjoy high-quality radio without interference. (See pg. 39 for full details).

PNS (Pulse Noise Suppressor): 'Pulse Noise' is unwanted noise generated by electrical motors. It can come from the car's engine or through the antenna, even from another car. PNS provides a cleaner sound by reducing noise that interferes with the FM signal.

Radio Intercept: Avoids lengthy silences by automatically switching to your radio source when the cassette deck is fast-forwarding, rewinding, or in Auto Reverse.

Radio Text: By pressing the Radio Text button, text messages sent as RDS data are received. These messages scroll across the screen for convenient viewing, and can be stored in memory for review.

RDS: Pioneer has incorporated the "Non Interruption Philosophy" into the "Intelligent RDS Tuner" for improved network following (INF). Thanks to the sophisticated algorithms, the different programme alternative frequencies are screened out and continuous, uninterrupted listening pleasure is achieved.

DAB Tuner

DAB: A DAB tuner allows access to the Digital Audio Broadcasting (DAB) system for distortion-free, interference-free CD quality radio and multimedia services.

Audio Compression (DAB): DAB uses advanced digital audio compression techniques (MPEG 1 and 2) to reduce the bit rate six to twelve times compared to the conventional PCM sound coding. Only the audible parts of the audio spectrum are extracted; the imperceptible parts are "masked". In addition, broadcasters can determine the sampling rate of a transmission, allowing more efficient use of the ensemble. For example, voice-only programming could be broadcast at half-rate, with the additional capacity used to expand other programming. Audio Compression results in more flexible and efficient transmission while maintaining high-fidelity sound.

GLOSSARY

COFDM (Coded Orthogonal Frequency Division Multiplex): The complete ensemble is transmitted via several hundreds (or thousands) of tightly packed RF carriers. Due to the low data rate of each RF carrier, any delayed signal reflections add to the signals already received, allowing interference-free reception under conditions of multipath propagation.

Atmospheric conditions and large physical obstructions can interfere with analogue signal reception. The DAB receiver simply does not recognise interference. Digital transmission is consistently pure and clean. In short, CD-quality sound.



Analogue Signal

DAB Signal

DVD

Auto Play: Auto Play ensures that playback of a DVD-Video's first chapter starts 5 seconds after the power of the unit is switched on.

Bookmark Play: Press the Bookmark button to "memorise" the preferred starting position for a DVD-Video disc. Each time the disc is inserted, it will start playing from that point on.

Dolby Digital: The current surround sound quality encoding standard, Dolby Digital, means in-car movie theatre sound performance. The front left and right, centre, rear left and right speakers span frequencies from 20 Hz – 20 kHz and there is a dedicated subwoofer channel for additional low frequency sound effects.

Dolby Pro Logic: The forerunner to the increasingly popular Dolby Digital format, Dolby Pro Logic Surround uses 5 speakers to create a cinematic surround sound ambience. By decoding sound data contained in Dolby Surround, it produces 4 distinct outputs: front left, front right, centre and rear (2 speakers).

Dolby Digital Pro Logic II: Dolby Digital Pro Logic II reproduces multi-channel surround sound from a variety of sound sources, to create the thrill of 5.1-channel surround sound even from 2-channel sources.

DTS: DTS 5.1-channel playback encoding technology is rapidly gaining popularity thanks to its dynamic sound impact.

DVD-Audio: The DVD-Audio format provides audio fidelity far superior to that of normal CDs. In addition to audio in stereo and multi-channel surround sound, DVD-Audio discs can hold artist bios, background information, lyrics and liner notes.

DVD-Video: This multimedia digital technology guarantees second-to-none picture quality. The ultra-sharp digital picture and surround sound bring impressive cinema into your car. Plus, DVD is packed with useful features, e.g. multiple languages, soundtracks and subtitles, support for various multi-channel audio-encoding technologies such as DTS and Dolby Digital.

Eject Bookmark Play: A long press on the Eject key sets an 'Eject Bookmark': the next time that DVD disc is inserted, it will start playing from that point onwards.

CD

Burr-Brown 1-bit D/A Converter with 24-bit resolution: Burr-Brown Corporation's 1-bit D/A Converter with 24-bit resolution offers a very wide dynamic range and an excellent signal-to-noise ratio, giving more accurate and true-to-the-original sound. Sound quality is further enhanced by the use of high-quality audio capacitors and very low noise design.



CD-R/CD-RW Compatibility*: All Pioneer CD headunits can play back CD-R/CD-RW discs, allowing you to enjoy your favourite compilations in-car.

* Use finalised music CD-R/CD-RW discs for playback. In some cases, CD-R/CD-RW discs may not play back correctly, unless they have been recorded using a CD-R/CD-RW unit for recording music. Furthermore, CD players may not play back music on CD-R/CD-RW discs recorded from a music CD-R/CD-RW recorder if there are scratches, dirt or other characteristics specific to these discs; or dirt or condensation on the pick-up lens. Text information such as titles recorded on CD-R/CD-RW discs may not be displayed. Read directions carefully regarding disc use before handling CD-R/CD-RW discs. Even if playback of a CD-R/CD-RW disc is possible, it may take several seconds before actual sound reproduction begins.

CD-R/CD-RW Skip Play: Allows you to skip misrecorded tracks on a CD-R/CD-RW disc. First set "Skip ID" on the CD recorder unit and your car CD player will not play that particular track, but skip to the next one on the disc.



CD Text: Use the CD Text feature to view text information from a music compact disc (which has been encoded with CD Text data). By pushing the display key, you can scroll between disc titles, track titles and artist name.



Disc Title Memory: Enables you to programme an up to 10-digit descriptive title to be displayed when that CD is selected. Up to 48 titles may be entered with many Pioneer Single-CD units and up to 100 titles with Pioneer Multi-CD Players.

ITS (Instant Track Selection): Gives the choice of programming any favourite CD track — for up to 24 tracks per disc. Selections are then played back utilising ADPS and the "Program" button.

Last Position Memory: Last Position Memory automatically resumes CD play from the last point if there is interruption to CD play.



MP3: Popular compression format that allows large amounts of audio files to be stored onto one CD-R/CD-RW disc. Pioneer players come equipped with large buffering capabilities, which means they are all able to handle data rates from 16 kbps and VBR Variable Bit Rate recording. (See pg. 34 and 37 for full details).

Random Play: CD playback mode mixes the order of songs (and entire magazines, in the case of MCD Players), providing a different sequence each time.



WAV: WAV files are used to store high-quality, uncompressed audio data of CD-quality (44.1 KHz/16-bit). This file format requires a huge amount of memory — roughly 10 MB per minute of music. Compressed audio files such as MP3 and WMA require significantly less memory, but reproduce poorer quality sound. Audio CDs are automatically saved in WAV format in the Windows operating system for perfect original sound quality without quality loss. The formats and sampling frequencies that are supported by Pioneer products are LPCM (16/22.05/24/32/44.1/48 kHz) and MS ADPCM (22.05/44.1 kHz)



WMA (Windows Media™ Audio): WMA is a music compression format developed by the Microsoft Corporation. It uses the latest coding technologies to compress an original audio track, minimising file sizes while maintaining good audio quality even at rates as low as 64 KB/sec. (See pg. 34 and 37 for full details).

Cassette

Blank Skip: Automatically skips over long portions of unrecorded tapes (at the end of one side, for example).



Dolby B: A noise reduction system* used with most pre-recorded tapes. Pressing the Dolby B button improves the signal-to-noise ratio by greatly reducing background "hiss".

* Dolby and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.



Full Logic Control: Full Logic cassette decks feature feather-touch, electronic control buttons that make cassette operation easier. A "Logic" system ensures that when you press "forward", the deck will always move forward, regardless of which side of the tape is currently playing.



Metal/70 µs Tape Selector: Metal and chrome tapes require different equalisations compared to standard bias tapes. Pioneer units feature either an "Auto Metal" capability or a manual Metal button. Both features provide optimum playback equalisation on metal, chrome (70 µs) and normal (120 µs) cassette tape formulations.



Music Search: Locates the beginning of the next song for fast forward or the beginning of the present song on rewind.

HDD

ATRAC3: ATRAC3 is an audio compression technology used in "MagicGate Memory Stick" and MDLP. The digitised music data can be compressed into 1/10th of the volume of a conventional music CD. A 64 MB capacity "Memory Stick" can record about 60 minutes of music.

Check-in/Check-out: "Check-out"= transferring data from the HDD to the "MagicGate Memory Stick". "Check-in"= returning "checked-out" music data to the HDD. The "Check-in" can only be done by the HDD which did the "Check-out". According to MagicGate regulation, it is possible to make 4 copies of the music data. One copy is recorded on the HDD, which leaves you with 3 additional "Check-out" possibilities.



Gracenote CDDB®: The Gracenote CDDB® Music Recognition Service automatically adds artist names and disc titles when audio CDs are backed up from the CD player onto the hard disc. Files can be organised into play lists and selected at the touch of a button.

CDDB® is a registered trademark of Gracenote. The Gracenote logo and logotype, the Gracenote CDDB® logo and logotype, and the "Powered by Gracenote CDDB®" logo are trademarks of Gracenote. Music recognition service and MRS are service trademarks of Gracenote.

ID3 Tag: This is the format used to record information with an MP3 file. Recordable information: title, artist, album name and music genre.



MagicGate Memory Stick: This compact and lightweight IC recording medium can be used with an increasing number of products. Download music from your PC and play it back on a MagicGate Memory Stick compatible player.

AV UNITS AND HEADUNITS — AUDIO

3-Way Network Mode/Standard Mode: Systems designed around external amplifiers and either the DEH-P9600MP or DEH-P8600MP can be set up in one of two different configurations, called Standard and Network configurations.

In Standard mode, the speakers are used in the traditional format, the pre-outs driving the front, rear and subwoofer channels. In this type of configuration 2- or 3-way speakers are commonly used for the front and rear.

In Network mode, instead of front, rear and subwoofer channels, low, mid and high frequency channels are used. For each channel the cut-off frequency, filter slope, level and phase can be adjusted. This allows for component woofers and tweeters to be used to create a highly tailored system, offering optimum staging and acoustic performance. The combination of Network mode and Auto Time Alignment offers an incredible level of control and tuning flexibility.



40 W x 4 / 45 W x 4: Pioneer co-developed and was the first to introduce this internal power chip which allows increased bass response and system clarity.



ASL (Automatic Sound Leveliser): Automatic Sound Leveliser (ASL) technology electronically and automatically adjusts volume and frequencies to mask varying degrees of exterior noise.

Auto EQ: Auto EQ is a powerful sound tuning feature which uses a microphone to monitor and analyse the acoustics inside the car. It then automatically adjusts the equalisation across the entire range of the music's frequency bandwidths to optimise the performance. In addition, it offers digital 13-band graphic equalisation for both front and rear speakers.



[Auto] Time Alignment: The Time Alignment feature adjusts the speaker sound output timing within the vehicle for each speaker by 1/20,000 second, so the sound from each speaker reaches the driver's ears at the same time.

Auto Time Alignment automatically estimates the delay from each speaker to the listening position and adjusts the Time Alignment accordingly.



BBE®: Pioneer has incorporated the BBE technology into some of their headunits for a pure, natural sound. BBE adds a longer delay time to the lower frequencies and slightly 'boosts' the high range, so that the music recovers its natural articulation. It controls the amplitude relationship between the mid and high band areas. These combined features restore the brilliance and clarity of the original sound.

* Licensed by BBE Sound, Inc. under USP4638258 and 4482866. BBE and BBE symbol are registered trademarks of BBE Sound Inc.



BMX (Bitmetric Equaliser): Enhances digital compressed audio by adjusting the signal output level and tonal characteristics according to the signal input level, resulting in a more natural and more comfortable sound. BMX can also improve the listening experience of uncompressed audio files that originate from a poor original source. (See pg. 34 for full details).



BTB (Bass Treble Boost): BTB sound tuning is a simple, yet effective, sound customisation function. One push of the BTB button allows you to switch between 3 preset equalisation curves that boost the bass and high-range frequencies.



Built-in DSP: Uses digital technology to correct a vehicle's interior acoustics. The system also offers various sound fields to recreate different listening environments in your car (Studio, Jazz Club, etc.).

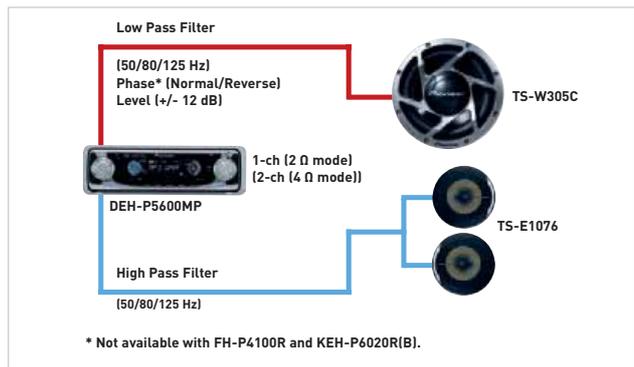


New Built-in DSP: Pioneer's new built-in DSP and Burr Brown 1-bit DAC with 24-bit resolution produce the highest quality in-car sound. Flexible sound customisation can be achieved automatically, equivalent to a professional system. Sound tuning perfection is enabled thanks to the Burr Brown 1-bit DAC with 24-bit resolution, Advanced Auto Time Alignment (optimises the sound field by acoustically adjusting the sound image depending on the listening position) and Auto Equaliser (monitors the car's interior acoustic environment, and after one of the three target curves is chosen, completes a sound correction process to balance the acoustics). Additionally, the digital 13-band graphic equaliser's fine-tuning flexibility finds the perfect balance of lows, mids and highs, while the Source EQ Memory effortlessly recalls tone settings you set for each individual audio source. In addition, there are 6-mode preset equalisation curves plus a nuance control function for subtle sound adjustments.

Digital Compression: This feature is useful for music with an exceedingly wide dynamic range (classical is a good example). Quiet passages are boosted so that they don't get buried in background noise and loud passages are reduced, preventing overload and distortion of the speakers.



Direct Sub Drive: MOSFET 50 and EEQ+ can be used together to get Direct Sub Drive. EEQ+ filters the rear channels output; then, MOSFET 50 — due to ample audio power — drives Pioneer's high sensitivity subwoofers directly, without using a separate component amplifier. MOSFET 50 can also drive 2-ohm speakers, pumping out an incredible 1 x 70 W in the rear, giving the unique setup of a 2 x 50 W front and 1 x 70 W subwoofer system.



Dynamic Bass Emphasis: This feature digitally boosts low and high frequencies at lower volume levels to compensate for ambient road noise.



EEQ: For the maximum in customised in-car sound, Pioneer developed the Easy EQ (EEQ) system — an incredible advancement over traditional bass/treble adjustments. You can choose between one of the preset curves or the 3-band (parametric) equaliser curve. And with more parameters, it sounds like a Digital EQ system. (See pg. 39 for full details).

GLOSSARY



EEQ (Easy Equaliser) +: EEQ (Easy Equaliser) + expands EEQ further with either a Low Pass Filter (LPF) or a LPF plus High Pass Filter (HPF), for onboard network capability. (See pg. 36 for full details).



EQ-EX (Equaliser Expansion): EQ-EX (Equaliser Expansion) gives a boost to the current preset equaliser settings. By pressing the EQ-EX button each EEQ curve is acoustically tuned for optimum effect, giving a more dramatic effect and a new edge to the music. (See pg. 36 for full details).



FIE (Front Image Enhancer): This function shifts the sound focus forward electronically, without having to adjust the fader control, by cutting off high frequency signals to the rear speakers. It gives an extremely clear sound image in the front of the car, without attenuating dynamic bass response from the rear speakers.



Hi-Volt Pre-Outs: By providing a strong signal, with less noise and more definition, the Hi-Volt pre-outs reduce demand on the input circuit of the amps so they can work with lower gain settings, resulting in improved sound quality and a wider dynamic range.

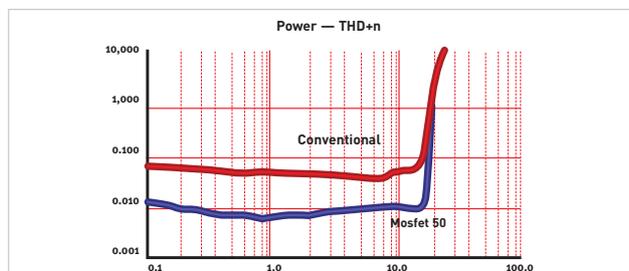
Listening Position Selector: The Digital Listening Position Selector automatically adjusts the sound field and stereo image to optimal levels for each of the four preset seating positions – front left, front right, rear left and rear right.



Loudness Control: At low volume levels, ambient noise levels in the vehicle can overpower low- and high-frequency sounds in music. Loudness control provides a one-button way to boost these frequencies and provide better overall sound at low volume levels.



MOSFET 50: Pioneer's MOSFET 50 power amp pumps out an impressive 4 x 50 W of power. Audio performance is boosted to ever-higher levels thanks to superior technologies such as the 99.99 % pure OFC (oxygen-free copper) bonding wire, which has low electric resistance. This means that only minimal power is lost in the IC chip so power handling efficiency is enhanced along with sound quality. Audio distortion is minimised and the switching distortion that plagues conventional bipolar amps is completely eliminated.



Thanks to this very flat gain curve, the audio distortion from the MOSFET amps is a fraction of that from Bipolar amps.



MOSFET 60: The revolutionary MOSFET 60 power amp delivers a very impressive 60 W x 4 of output power — without requiring a direct battery connection. This has been achieved by the integration of two intelligent technologies. First, to reach an even higher power output, a separate dual power supply structure is used. The headunit is fed through two cables: the backup and ACC cables, each with a 10 A fuse or more*. Using this system, direct connection to the battery is not needed, avoiding complicated installation. Secondly, MOSFET 60 incorporates a new, highly efficient power amp IC. Its very low power dissipation allows for a smaller heat sink. Therefore, 60 W x 4 output power can be delivered in a 1-DIN headunit, even with a dual power supply system.

* If the ACC fuse is lower than 10 A or if there is no ACC cable, max. power is still 40 W.

Power comparison	MOSFET 50	MOSFET 60
Max Power	50 W	60 W
DIN Output Power	27 W	36 W
5-15 K @ 5 % Dist	22 W	27 W

Octaver: The 2-mode Octaver Bass Enhancement System is a DSP technology featuring a bass boosting Octaver that processes signals under 200 Hz by shifting down an octave and adding an original sound low-frequency signal output.

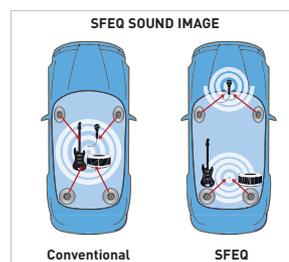


RCA Pre-Out: The standard connection system to carry sound from a headunit to an amplifier or equaliser. RCA pre-outs provide easy output for connection to an outboard amplifier. (See pg. 38 for full details).

RCA Pre-Out Subwoofer output: The dedicated subwoofer output allows connection of an amplifier for a subwoofer without having to purchase a separate crossover. It also simplifies controls by providing subwoofer crossover and level controls as part of the headunits.



SFEQ (Sound Focus Equaliser): SFEQ lets you control bass and treble settings for front and rear independently for easy customisation of the total sound. Vocals can be brought to the front stage while bass performance is kept well balanced, producing a more natural effect.



Source Level Adjuster (SLA): Independently adjusts the volume ratio between all of the headunit's sources (using the FM volume level as a reference), so the start-up volume between sources will always be the same.

AV UNITS AND HEADUNITS — SYSTEM CONTROL



10-key Remote Control: Pioneer's top-end MP3/WAV/CD RDS tuners come with a standard practical 10-key remote control. It gives you full control over your headunit and allows for direct access to files.



AUX-In for External Music Sources: All Pioneer IP-Bus headunits units allow the connection of external music sources (with RCA outputs), such as portable recorders, micro-cassettes, etc., through the MCD bus connection. (Adapter CD-RB20).

Back-up Camera Input: The Back-up Camera Input is a video input that can be used for a reverse view camera. The input on some AV units can be set so that it automatically switches to a reverse view whenever the reverse gear is engaged.



DAB Control: Pioneer products with IP-Bus connectivity offer 2 levels of DAB control — Full and External (EXT) — for pure CD-quality sound by digital radio. Full Control offers you the possibility to take full advantage of an optional DAB tuner, with convenient added features such as Automatic Switching between DAB and FM RDS whenever the DAB signal is lost. EXT Control means you can control most DAB features, such as Service Component Selection and Text Display, but not DAB to FM Automatic Switching. Full DAB Control features include: Dynamic Label Segment (Radio Text), Service Following to DAB and RDS/FM, Announcement selection by type, Language Filtering. External DAB Control features include: Superb RF performance, Full- and half-rate audio [32 — 256 kbps], Dynamic Multiplex Reconfiguration support, Primary and Secondary Components, Minimum 8 character display.



Dual Zone: Many Pioneer AV products are Dual Zone ready, meaning the rear seat passengers can enjoy in-car entertainment from a different source (such as DVD-Video) than the driver and front seat passenger (radio, CD, DAB). (See pg. 17 for full details).



Hard-Wired Remote: This convenient feature allows you to operate your Pioneer headunit with the car's existing steering wheel remote control. These headunits feature a mini-jack input on the rear. By using an optional hard-wired remote control adapter, the headunit can be hard-wired directly to the car's remote control system. (See pg. 45 for details on optional adapter kits).



IP-Bus: The IP-Bus connections on Pioneer P-series headunits allow you to connect optional source units and create a true mobile multimedia centre. You can easily add on a hide-away TV tuner, allowing passengers to watch their favourite TV programmes in the car. A DVD player can be added, to enjoy DVD images on one of Pioneer's premium-quality colour displays — you can choose from Pioneer's range of front on-dash or in-dash or rear displays. A DAB tuner can also be connected for pure high-quality digital radio.

Pioneer's full range of CD tuners with IP-Bus can now all control 2 external source units, and offer either full control or external (EXT) control of source units.

RCA AV input/output: Standard connection for AV sources.

RCA Video input/output: Standard connection for Video sources.

RGB input/output for Navigation/AV: Pioneer proprietary format cable for high-quality connection of video sources.



Speaker Input for Hands-free Phoning: When the standard mini-jack cable from the hands-free car kit "speaker out" socket is plugged into the system, calls will come in directly through the main speakers and the source will mute to TEL. When the call is finished, the system automatically switches back to the source that was in use.



Steering Wheel Remote Control: Keeping your eyes on the road is easy with a Pioneer steering wheel remote control — the CD-SR100, which comes standard with some Pioneer units. The remote control can be mounted right onto the steering wheel so you have control of the most frequently used features of the audio system at your fingertips. The CD-SR100 also has a voice trigger for navigation commands.

TV Control: TV Control allows Pioneer headunits with IP-Bus connectivity to control a hide-away TV tuner.

Virtual Sonic Output: Provides all the excitement of 3-D surround sound over conventional headphones. It allows rear seat passengers to enjoy their favourite forms of entertainment without disturbing the driver.

AV UNITS AND HEADUNITS — ERGONOMIC FEATURES



Anti-Glare, Low-Reflection Display: A special coating used on Pioneer AV displays minimises reflection and glare, absorbs light, diffuses sunshine and maintains high contrast no matter how bright the environment is. The display offers optimal image quality and the most comfortable viewing.

Direct Key Operation: Direct Key Operation is an easy mode on the CD tuners with OEL display. By pressing the Entertainment key for 2 seconds, the headunit switches from Entertainment mode (classic, animated Organic EL display) to Direct Key Operation mode. The OEL display then indicates the function of each of the 4 Soft Keys (which changes depending on the source) in a clear and easy-to-read way.



Dual Button Illumination: Denotes units that can switch front panel illumination colour between green and red to match the dashboard.



Full Flap Design: In a full flap designed headunit, the CD or cassette slot is hidden behind the front panel. This results in a larger display with improved visibility and more impressive display animations.

Multi-Language Display: A user-friendly multi-language display allows you to select from up to 6 languages* to navigate the menu in the language of your choice.

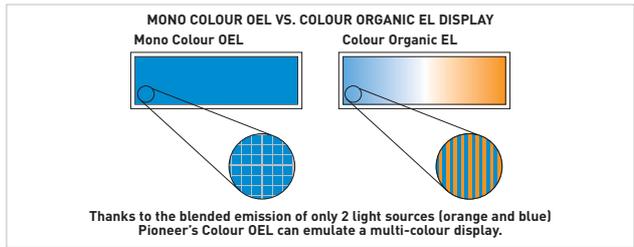
* English, French, German, Italian, Spanish, Dutch



OEL: Pioneer OEL (Organic EL) display delivers high-contrast, moving 3-D images, even in sunlight. Its smart functionality lets you control and confirm play source operating information and provides plenty of space for text, for lists of tracks, discs or other data from MDs or CDs. (See pg. 35 for full details).



Colour Organic EL: The Colour Organic EL is a hybrid concept that — using only 2 (blue and orange) light emitting sources (Dual Paint Process) — can emulate a multi-colour display. These colours offer a very wide range of vivid animation possibilities with excellent 3-D realism and make the display impressive to look at. By blending the 2-colour light emission, the display can also create a very pure white. It also offers the benefits of traditional OEL displays (see 'OEL', previous column; see pg. 30 and 35 for full details).



Blue OEL: A new colour is used for the OEL display, a trendy blue. It plays customised animations, and also offers the benefits of traditional OEL displays (see 'OEL', previous column; see pg. 32 and 35 for full details).

OEL Screensaver Studio: Pioneer's OEL Screensaver Studio lets you customise your OEL headunit display* using a CD-R or CD-RW. The software can be downloaded via www.pioneer.co.jp/car/pclink3a (for the DEH-P9600MP and DEH-P8600MP) or www.pioneer.co.jp/car/pclink3b (for the DEH-P80MP) and features a revised easy-to-use interface that offers more entertainment possibilities and animations. It lets you process and edit your favourite digital camera images (BMP, JPEG or PNG formats) or digital video movies (AVI format) into all kinds of special customised OEL animations from movies and backgrounds to images and level indicators** — all complete with special effects and text. Frame size, timing and sequencing can be adjusted. When the file is complete, all you have to do is insert the burned CD-R/CD-RW into the headunit to automatically upload the new animations.

* DEH-P9600MP, DEH-P8600MP, and DEH-P80MP only.
** DEH-P80MP only.



Pop-Out Rotary Volume: The pop-out rotary volume control is a neat Pioneer design and ergonomic element. Press it and the button pops out to turn up the volume. Press it back into place to return to a smooth, stylish panel.



Rotary Commander: Lets you control all the headunit's features and functions with one knob. It can be turned left or right, pushed up, down, left or right, or pressed to navigate joystick-style through the different radio stations, access folders and files. (See pg. 32 for full details).



Removable Front Panel (RFP): A theft-deterrent system invented by Pioneer. With RFP, the front panel of the unit can be lifted off and slipped into a protective case. The unit's sensitive electronics remain protected in the dash; all that remains visible is a black panel that won't attract thieves.



Soft Key Concept: The Soft Key Concept makes operation super easy. Button assignments change according to the source or function engaged. You can access the function you need directly, with one touch. Some functions are also accessible via the remote controller's cross-key or the steering wheel remote.



Sub-Display Output: The sub-display output is a practical new feature which allows you to connect certain Pioneer CD tuners and the ANH-P10MP Navigation unit to your existing in-car digital display. Basic tuner information — such as frequency and track numbers — is output through the IP-Bus connection via an optional interface*. [See pgs. 15 and 45 for full details].

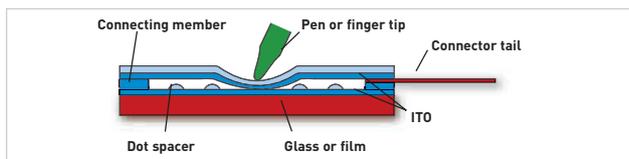
* Please refer to <http://www.pioneer-eur.com> for a list of the available interfaces.

TFT LCD: TFT LCD's offer high-quality video pictures with wide viewing angles, perfect for in-car viewing.



Touch Panel: Several Pioneer AV/Navi products and AV displays feature touch panel operation. Its easy-to-use interface allows you to control the entire in-car system just by touching the on-screen buttons. The touch screen technology is superfast, intuitive and precise, which makes it perfect to combine with a Pioneer navigation unit.

The basis of the touch panel display technology lies in two glass plates, the inside of which contain isolated resistive films. A finger on the top film presses both films together and the location of the touch is defined by the *XY* voltage. The electronic circuit then converts this voltage into a command word to the computer. This technology works extremely quickly and precisely. The highly efficient anti-glare screen coating reduces the reflection without affecting the contrast. It does this by keeping the reflection of incoming light to a minimum while ensuring the backlight returning to the viewer for very high transparency. As a final touch, Pioneer touch panel displays are fingerprint resistant, improving clarity of vision and reducing cleaning time!



AMPLIFIERS

Balanced Isolator Circuit: Prevents ground voltage flows from interfering with the signal. Pioneer improved existing designs by separating the left and right channel grounds. This puts each channel's signal wave in phase, which helps cancel noise components within the grounds. The output is cleaner, with less interference.

Class-D Amplifiers: Class-D amplifiers require less electrical current and produce less distorting heat, while 67% of the power supply is transferred into the load. A digital signal is generated and filtered through the Low Pass Filter. The power output FETs ensure more efficient operation, and the design is more compact thanks to a smaller heat sink. The final result is undistorted and clear sound.

Hi-Volt Inputs: All of Pioneer's PRS series and bridgeable amplifiers have an Input Level Control, which is adjustable over 6.5 volts of input signal. This means that these Pioneer amplifiers can pick up signals from Hi-Volt headunits or line drivers, without any clipping.

Input Level Control: Level Control adjustment is provided to match the amplifier's input with the source unit's output. Proper adjustment ensures less noise and distortion.

Link Top: Amplifiers with "Link Top" are equipped with output terminals for convenient, efficient, low noise connection to an additional amplifier driving a subwoofer or to create a multi-channel speaker system.

Low Impedance Load Capability (High Current): Refers to power amplifiers that provide 1 – 1/2 times the power output of standard 4 Ω operation at 2 Ω. Since they have the power to drive more speakers, these amps also increase system flexibility by enabling the hook-up of multiple pairs of speakers.

MOSFET Power Supply: MOSFET power supplies offer significant advantages over traditional bipolar devices. Input power is applied with greater efficiency, stability and switching speed. The result is high-quality sound at peak power output, with less distortion and noise.

MOSFET Output Section: A MOSFET output section utilises a high-density circuit layout to reduce line impedance and maintain stability. Switching noise is eliminated, resulting in enhanced high-frequency range performance and improved linear response.

PWM Regulated MOSFET Power Supply: During the process of DC-to-DC step-up transforming, the voltage at the secondary winding must be kept stable despite voltage fluctuations or loads fluctuations during windings. Pioneer's PWM (Pulse Width Modulation) power supply design maintains stability between primary and secondary windings, and uses a MOSFET to switch the power supply on and off very quickly in response to input. This translates into cleaner output with less distortion.

Screw-Type Terminals: Pioneer uses Screw-Type terminals for the speaker connections as well as the power and ground connections. These terminals make a more reliable connection and allow the use of larger gauge wire for improved performance.

Speaker Level Input: This allows a Pioneer amplifier to be connected to an OEM radio without requiring costly add-on adapters. The added flexibility allows your Pioneer amplifier to be a part of your system as it grows and expands.

Variable Bass Emphasis: Allows bass frequencies to be boosted for each equipped amplifier. This allows you to set the optimal bass level for the speakers connected to that individual amplifier, allowing you to best utilise the headunit's tone controls for all speakers in the system.

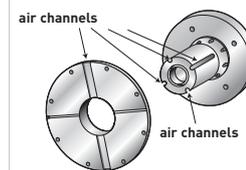
SPEAKERS AND SUBWOOFERS

3-layer Fibre Woven Radial Surround: The innovative patent-pending 3-layer Fibre Woven Radial Surround consists of two outer layers and one inner layer of interwoven fibre. This results in an extremely durable and resilient surround which improves the high power capability. [See pg. 61 for full details].

ADMG (Aero-Dynamic Magnetic Gap): The ADMG is designed to overcome the mechanical and air pressure resistance typical of +170 dB situations. Each pole piece and top plate of the ADMG has an air channel in a narrow magnetic gap, which reduces physical resistance by over 10%. This leads to greatly improved linearity at high power input.

ADMG DESIGN

The air channels reduce the mechanical resistance by more than 10%.



Air Suspension Control Excursion System: An airtight space is built-in between the two cones, which enables the main cone to move solidly and smoothly. Furthermore, the drive cone deflects air pressure from the enclosure, which results in very tight bass — even in a very small enclosure. [See pg. 63 for full details].

Aluminium Die-Cast Basket with Bottom Hold Structure: Pioneer's aluminium die-cast basket securely supports the motor, and provides excellent damping characteristics to attenuate vibrations quickly and prevent distortion. [See pg. 62 for full details].

Bass Reflex: A loudspeaker design in which the sound waves generated by the driver's rear surface are allowed to pass through a port in the enclosure to reinforce bass response. This enables smaller drivers to offer increased bass response with less power.

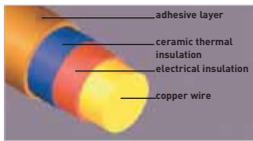
Butyl Rubber Edge: The rolled edge where the speaker cone meets the frame is made of a specially blended, highly durable and moisture-resistant compound. Butyl Rubber keeps the cone moving in a linear direction and stops the cone from vibrating. This leads to less distortion and superior frequency response.

Conex Damper: The damper guides the speaker cone and voice coil as it moves back and forth during use. While typical dampers are made of cloth, on many models Pioneer uses Conex. This special material provides increased rigidity, longer travel and improved moisture resistance.

Conical Dome Technology: The Pioneer IMPP cone woofers give smoother low to upper midrange reproduction and high rigidity through the use of highly Crystallised Polypropylene. The integration in the cone of conical domes (Bass Bullets) results in lower distortion, richer bass sounds and increased cone rigidity.

Crystalline IMPP Cone: This material with high young modulus and high propagation rate makes the cone more rigid and improves the transient response, resulting in accurate sound.

Double Damper: A damper supports the speaker cone and guides the cone as it moves back and forth during use. By using two dampers instead of one in many of its speakers, Pioneer has greatly improved linearity over the entire frequency range of the speaker.



Dual Ceramic-Coated Voice Coil: The ceramic coating superbly insulates the voice coil wire, preventing short circuits due to overheating and drastically improving reliability; meaning double power handling capacity of a conventional voice coil.

Dual Voice Coil: The flexible wiring configurations of the Dual Voice Coil (DVC) subwoofers, when used in combination with a low load impedance compatible amplifier, can give even more powerful bass reproduction capability. DVC subwoofers have 2 voice coils, of 4 ohm impedance each. Connect the voice coils in parallel for the power of a 2 ohm subwoofer or connect them in series and get an 8 ohm subwoofer. These in turn allow various installation configurations and creation of a superior system. Additionally, some headunits can combine MOSFET 50 W x 4 with the Crossover Network (Low Pass Filter) of the EEQ (Easy EQ) Plus system, enabling subwoofers to be connected without amplifiers.



Easy Connector: Most 17 cm and 13 cm custom-fit models are equipped with a handy Easy Connector, making it easier to cable them with the car's speaker connectors.

Foamed PPC (Pearl Polycarbon) Diaphragm: The Pioneer foamed PPC diaphragm is lightweight yet rigid, resulting in an improved low-mid transient response and smoother midranges, opening the sound character.

Glass-Imide Voice Coil Bobbin: Many Pioneer speakers utilise a voice coil whose cylinder is made from a woven fibreglass material bound by a polyimide resin. This Glass-Imide material has much higher heat resistance, which translates into higher power handling capability for the speaker and less distortion.

High-Power Motor Assembly: The huge motor structure provides more powerful force to move the cone assembly harder and consequently overcome the tremendous air pressure resistance. [See pg. 62 for full details].



IMPP™ (Injection-Moulded Polypropylene) Composite Cone: Pioneer uses a special injection moulding that ensures uniform cone thickness for superior linearity and clarity. Pioneer's "Composite" technology guarantees the perfect mix of polypropylene and carbon-fibre, graphite and other materials to optimise the speaker cone for its specific application (woofers, midranges, or tweeters, etc.).

Interlaced Fibre Reinforced IMPP Cone: Pioneer's patent-pending IMPP cone utilises a composite blend of interlaced long fibres (e.g. carbon fibres). This cone is extremely rigid yet lightweight, for low distortion and powerful bass at high sound pressure levels. [See pg. 61 for full details].

DuPont™ KEVLAR® brand Fibre Cone Woofer: This woofer was meticulously designed to reproduce real strings and vocals with less distortion. Thanks to the KEVLAR® brand Fibre Composite Cone, you can expect accurate, smooth sound from mid-bass to upper midrange frequencies.

Linear Power Response: With no roll to restrict the cone's movements, this innovative system mimics a finely tuned precision piston, smoothly moving the speaker cone up to a higher level than ever. And thanks to its unique edgeless diaphragm, there is no stress or distortion around its diaphragm. [See pg. 66 for full details].

Neodymium Magnet: Neodymium has a high magnetic flux density. It is about 7.5 times stronger than a standard magnet and allows Pioneer speaker designers to make a tweeter that is smaller and has reduced distortion as compared to a model using a standard magnet.

Overhung Surround: By extending the wide-roll surround over the typical gasket area, this design provides 22 % more cone surface than traditional surround designs. The increased surface moves more area and achieves higher sound pressure levels. [See pg. 60 for full details].

Power Blades: Power Blades are protrusions integrated in the cone, which increase cone rigidity. Unwanted vibration is eliminated for the lowest distortion possible. The result is pure and accurate sound and maximum power handling.

Pure Magnesium Balanced Dome: The revolutionary 0.05 mm thin Pure Magnesium Balanced Dome midrange and tweeter delivers superior sound details, smooth and high-speed sound reproduction, high sensitivity, low distortion, and a wide sound range — ideal for DVD-Audio reproduction. [See pg. 72 for full details].

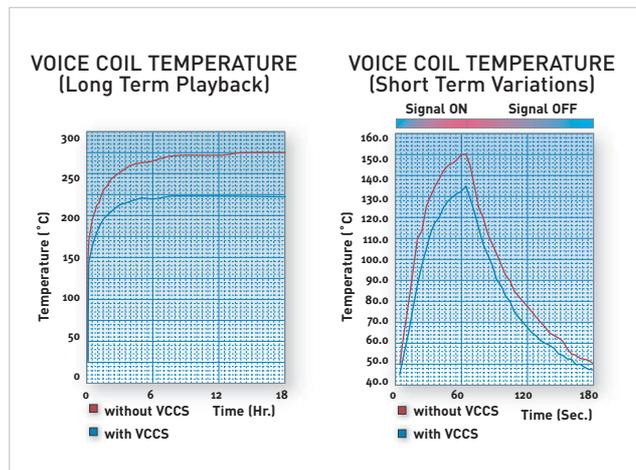
Separate Component Speakers: These are speakers, such as woofers, midranges and tweeters, which reproduce only certain frequencies. Component Speakers not only reproduce the audio signal more accurately, but also increase the listener's control over the audio signal.

Swivel Mount Tweeter: The swivel mount tweeter offers the best of all installation possibilities. Featuring a specially designed flush-mount cup, this mounting system allows the tweeter to be angled in any direction for optimum imaging and placement.

Tall Dual-layer Surround: The tall dual-layer surround allows for extended excursion of the cone, while keeping the same cone surface area. It also handles the huge power increase for more controlled bass response, even at loud volumes.



VCCS (Voice Coil Cooling System): VCCS brings high power to the Pioneer subwoofers. The Voice Coil Cooling System takes the heat away from the 4-layer voice coil using a heat resistant, highly conductive aluminium bobbin. Plus, extra slits in the bobbin reduce eddy currents while radiating the heat. This results in distortion-free, tonally accurate sound.



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