

Head Unit Section

-  **AUI (Auditory User Interface)**
Details on page 5.
-  **AUX-In Connectivity**
Details on page 8.
-  **BBE® digital**
BBE® adds a longer delay time to the lower frequencies and slightly "boosts" the high range which tends to become attenuated, so that it recovers its natural articulation. The result: greater live presence with the brilliance and clarity of the original sound.
-  **CD-R/RW Compatibility**
All Pioneer CD head units can play back CD-R/RW discs, allowing the user to enjoy favorite compilations in-car.
-  **Detachable Face Security™ (DFS)**
A theft-deterrent system invented by Pioneer which revolutionized head unit security. With DFS, you simply lift off the front panel (face) of the unit, slip it into a protective case and take it with you. The unit's sensitive electronics remain protected in the dash; all that remains visible from the dash is a black panel that won't attract thieves.
-  **DSP Digital Signal Processor**
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.).
-  **Easy Equalizer**
Details on page 11.
-  **Full-color OEL (Organic EL) Display**
Details on page 5.
-  **High-Voltage Pre-out**
Pioneer's High-Voltage Pre-out maximizes signal strength to your amp. The benefits are superior dynamics, crisper highs, more full-bodied bass, and a higher signal-to-noise ratio for minimal noise interference attributable to connections.
-  **IP-Bus Control**
The IP-Bus connections on Pioneer head units allow the user to connect optional source units such as a TV tuner, DVD player, Multi-CD player or even an iPod® and create a true mobile multimedia center.
-  **iPod® Direct Connection**
Details on page 7.
-  **IP-Bus USB Adapter (CD-UB100)**
Details on page 8.

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Pioneer Environmental Mark
Symbol of environmental
preservation activities



ISO
14001
JACO

EC00J0310
EC98J1147



UKAS
ENVIRONMENTAL
MANAGEMENT













051

Pioneer Corporation Meguro Headquarters and the Kawagoe Plant have acquired ISO 14001 certification.

a new material made from paper pulp and recycled paper, newspapers and magazines. This is in direct response to increasing evidence that styrofoam packaging harms the environment. The switch signals a worldwide move away from styrofoam by the Pioneer Corporation and underscores Pioneer's commitment to help safeguard our planet.

For more information, call or write to:

Amplifier Section

-  **Bass Boost**
Bass boost offers a choice among bass levels, spanning the range from 0 dB to 12 dB in 2 dB increments, for each speaker (including subwoofer) of a system. This provides more control over the overall balance of sound, to suit listener taste and style of music.
-  **Class-FD ICEpower Amplifiers**
Details on page 16.
-  **High Pass Filter**
Low-range sound is filtered off according to user-set cut-off frequency. Mid- and high-range sounds are transferred to the speaker.
-  **Low Pass Filter**
Mid- and high-range sounds are filtered off according to user-set cut-off frequency. Low-range sound is transferred to the woofer.
-  **RCA Input**
RCA input can be connected with head unit featuring RCA output for preamp signal.
-  **RCA Input/Output**
RCA input can be connected with a head unit featuring RCA output for preamp signal. RCA output can be connected with additional amplifiers for a multi-amp system configuration.
-  **Speaker Level Inputs**
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.
-  **Subwoofer & Speaker Section**
 -  **Air Suspension System**
Details on pages 21 and 24.
 -  **IMPP (Injection-Molded Polypropylene) Composite Cone**
Pioneer uses a special injection molding process rather than "pressing" polypropylene speaker cones. This process ensures uniform cone thickness for superior linearity and clarity. What's more, Pioneer's "Composite" technology guarantees the perfect mix of polypropylene and carbon fiber, graphite and other materials to optimize the speaker cone for its specific application (woofers, midranges, tweeters, etc.).
 -  **KEVLAR® Brand Fiber**
Characterized by lightness, strength, and low resonance to powerful input, KEVLAR® Brand Fiber is excellent for speaker diaphragms, helping to produce more detailed, accurate sound.
 -  **VCCS (Voice Coil Cooling System)**
Typically, the longer and louder you play your subwoofer, the hotter it gets. This changes its electrical and mechanical characteristics and adversely affects sound quality. Pioneer's Voice Coil Cooling System (VCCS) draws heat away from the inside of the subwoofer, reducing temperatures by up to 30°C. In the simplest terms, it keeps your sound crisp and your subwoofer from losing its cool.

Pioneer
sound.vision.soul

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Visit us on the World Wide Web at
http://pioneer.jp

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Pioneer *sound.vision.soul*



PROCEED WITH PASSION

Where Pioneer leads, passion follows. So free your soul. Ride your music beyond every journey's limit. Boldly go where your ears have never taken you before, straight toward the sound of your dreams. Surround yourself with pure, deep, satisfying sensation in the comfort of your car. The future of audio enlightenment starts right there.

Make More of Your System

iPod® and USB Connection plus AUX-In Connection



Pioneer single-CD head units let you extend entertainment with connection and control of an iPod® or other portable digital player.

The DEH-P7950UB even makes this connection direct via USB terminal. Otherwise, use an IP-Bus USB adapter CD-UB100 to connect and control a portable digital player or USB memory device. Our head units for 2007 also feature front or rear built-in AUX-in terminals for more complete connection to external digital audio players and devices.



Composite image shown in iPod® display.

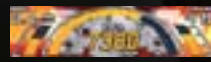
DEH-P7950UB

Enlighten Your Eyes

Dot-Matrix OEL (Organic EL) Display



See how brilliant up to 65 536 colors can look on a Full-Color OEL capable of displaying 3D animated graphics. Pure Blue OEL puts a cool perspective on display with extraordinary contrast and brightness. Segmented OEL shows a two-line character readout and is easy to view all around in every situation.



Digital 1 (DEH-P8850MP)



Graphic (DEH-P8850MP)

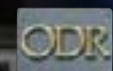


Movie "Space Elevator" (DEH-P8850MP)

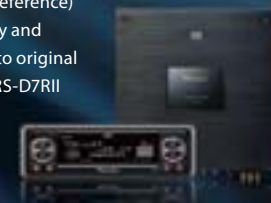


Thrill To Premium Performance

ODR (Optical Digital Reference) Systems



New Pioneer ODR (Optical Digital Reference) technology keep pure audio fidelity and sound staging remarkably faithful to original sources. The sound master clock circuitry of the RS-D7RII keeps process digital signals for linear sound reproduction of pristine clarity. A higher standard of sound quality is also realized by the RS-P90, with its three SHARC digital signal processors handling signal input with 32-bit precision.



Peerless Digital Power

Class-D and Class-FD ICEpower Amplifiers

Class FD ice A Pioneer Class-D amplifier consumes just 2/3 of the power that a conventional amplifier uses to supply system speakers with stable, distortion-free, high-power output. This is remarkable for such-compact amplifiers. Class-FD amplifiers extend the standard of excellence, combining Class-D circuitry and ICEpower digital technology, delivering truer fidelity with crisp, airy mids and highs.

Sound Supreme

PRS (Premier Reference Series) Speakers



With a wide-open sensation and silky sonic range, Pioneer made winners of its high-impact PRS speakers at IASCA (International Auto Sound Challenge Association) and other competitions. But the more lasting reward of PRS speakers is how they realize supreme standards of Pioneer's "Open & Smooth" sound ideal. The awesome response, linearity and directivity of these speakers improve low- and mid-frequency reproduction, with extra-smooth, expansive highs and lows.



Pioneer PRS speakers have earned critical acclaim from Europe, the United States, and more recently, Germany's renowned car audio magazine, "autohifi".

Bigger, Deeper, Truer Bass

SPL Champion Series Subwoofers

Pioneer's SPL Subwoofer TS-W5102SPL won the 2006 IASCA IdBL World Finals, becoming the world's first sub able to go beyond the 180 dB Sound Pressure Level threshold. The innovation that went into this winner is now part of the qualities built into the Pioneer Champion series subwoofers that give clear, balanced bass awesome punch.



PLAY WITH PLEASURE

Beyond spinning discs, Pioneer CD player head units extend the possibilities of car entertainment. Brilliant Full-Color or Pure Blue OEL displays present motion picture and 3D animated graphics as lively accompaniment to car audio entertainment. The system interfaces also connect to the growing universe of portable digital audio players for extra-easy access and control.



DEH-P8850MP 4-Channel High-Power WMA/MP3/AAC/CD Receiver



- Full-color dot-matrix OEL (Organic EL) display
- iPod® adapter ready
- USB adapter ready
- Burr Brown D/A Converter
- Built-in DSP
 - Auto EQ
 - Digital listening position selector
 - Auto time alignment
 - BMX (Bitmetric Equalizer)
 - L/R common 16-band digital graphic equalizer
- Auto-slide face
- Rotary Commander
- 3 RCA pre-outs (front + rear + subwoofer)
- AUX-in (rear)
- Level indicator
- Spectrum analyzer
- Multi-language display (English/Spanish/Portuguese)



Full-Color OEL (Organic EL) Display

DEH-P8850MP

Pioneering the First Receiver with 65 536-Color OEL Display
Pioneer presents the DEH-P8850MP with full-color (65 536-color*) OEL display capable of displaying motion and 3D animated graphics in multiple colors. Featuring OEL technology that is arguably the greatest advance in car entertainment displays since the detachable face was introduced, this innovation complements Pioneer's renowned audio quality with a dash of uniquely brilliant visual impact.

*Up to 256 colors can be displayed simultaneously in animated images.

Customizable Displays

Now, Pioneer makes it easy to personalize the graphics on your OEL display. From a Pioneer website, download the software that you need to create and edit BMP, JPEG or PNG images. You can add animation, special effects, titles and more. Once the data is complete, burn it onto a CD-R. Then, insert the disc into a DEH-P8850MP head unit to upload the customized images and put them on view.

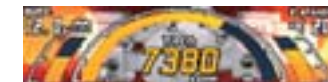
Choose among four types of gauges to view battery voltage, tachometer and sound level information.



Analog



Graphic



Digital 1



Digital 2

Other Images



CD jacket search



Movie "Space Elevator"

Advanced DSP (Digital Signal Processor)

DSP

With many of the most technologically advanced digital signal processing system refinements built in, Pioneer's DEH-P8850MP and DEH-P80RS head units achieve the ultimate in-car sound quality, setup, and control, featuring:

- **Digital 16-band graphic equalizer** for the extra-precise adjustment of sound quality and balance that you need to customize sound exactly as you like.

- **Emperor Volume** control for more gradual, consistent volume shifts.
- **Burr Brown advanced segment-type DAC** (Digital-to-Analog Converter) offering **24-bit resolution** for outstanding dynamic performance. (DEH-P80RS only)
- **Burr Brown 1-bit DAC** offering **24-bit resolution** throughout a wide dynamic range and excellent signal-to-noise ratio for purer fidelity. (DEH-P8850MP only)

Auto Time Alignment

Pioneer's innovative Auto Time Alignment automatically shifts the soundstage in front of listeners, and brings out vocals in the process.

First, a microphone at the listening point measures the time that the sound from each speaker takes to reach the listener (rather than listener-to-speaker distance), accurately accounting for sound reflection and absorption. Then, output timing is automatically adjusted for more expansive effect.



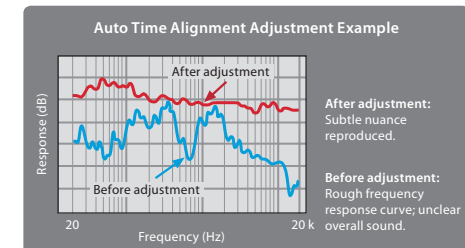
Auto TA & EQ: Checking Subwoofer (DEH-P80RS)



Auto TA & EQ: Measuring Speaker (DEH-P80RS)

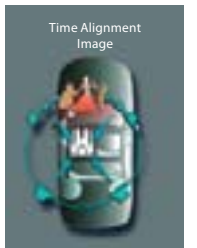


Auto TA & EQ: Adjusting EQ (DEH-P80RS)



After adjustment:
Subtle nuance reproduced.

Before adjustment:
Rough frequency response curve; unclear overall sound.



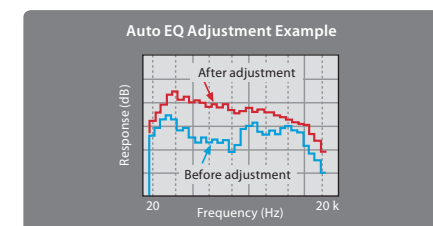
Digital delay processing makes all speakers sound as if they are virtually equidistant from the listener, for a clearer, front-focused soundstage.

Auto EQ

DEH-P8850MP FM-P9200MP DEH-P80RS

Finding the 'sweet spot' or optimal listening position is complicated by sound's reflection and damping, as well as variable speaker positioning in the irregularly shaped confines of a car. Such conditions tend to degrade frequency characteristics.

Auto EQ helps you enjoy the best sound quality you can get in a car, using a microphone to monitor acoustic conditions, then automatically setting frequency response curve equalization. It's like having a sound engineer customize your in-car sound system.



For smoother low- to high-range sound.



Microphone for Auto EQ frequency band fine-tuning

AUI (Auditory User Interface)

DEH-P8850MP

There's no need to glance at the display to confirm system status. The DEH-P8850MP's AUI can emit a distinctive sound for each of these

functions: **ON**, **Function**, and **Select**. This makes it easy to know what the system is doing while you safely keep your eyes on the road.

PC-Link (OEL Screensaver Studio) Ready

DEH-P8850MP

Personalizing animation for your head unit is easy. Download exclusive PC-Link software from the website* for PC-Link users, then collect your favorite digital camera images (BMP, JPEG or PNG formats) or digital video clips (AVI format) on your computer. Use the software to edit the

images and movies; add special effects and text; and adjust frame size, timing and sequence. Save your new design on a CD-R. Then load the disc into the DEH-P8850MP head unit, and the files upload automatically.

*DEH-P8850MP: <http://www.pioneer.co.jp/car/pclink4/index-e.html>
Available from late April 2006. Ask your nearest dealer about details.

DEH-P7950UB 4-Channel High-Power WMA/MP3/AAC/CD Receiver

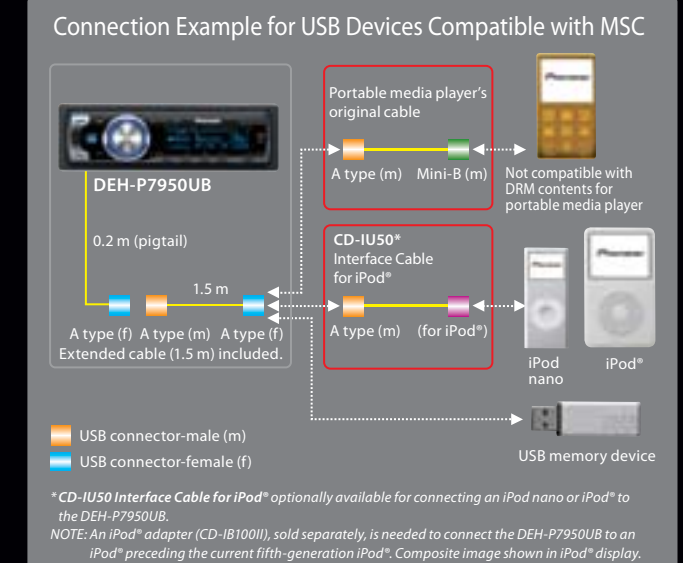
NEW



- Pure blue dot-matrix OEL (Organic EL) display
 - iPod® direct control* (use with CD-IU50)
 - USB 2.0 (full speed)
 - BMX (Bitmetric Equalizer)
 - 24-bit Delta Sigma D/A Converter (USB)
 - EEO
 - 7-band digital graphic equalizer
 - Auto-slide face
 - Rotary Commander
 - Direct Sub Drive
 - 3 RCA pre-outs (front + rear + subwoofer)
 - AUX-in (rear)
 - Level indicator
 - Spectrum analyzer
 - Multi-language display (English/Spanish/Portuguese)
- * See below connection example for the details.

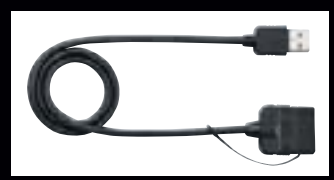
USB Direct Connection

Simply plug in USB-compatible equipment (such as an iPod nano, iPod®, or another portable digital player or USB memory device) into the rear USB connector of the DEH-P7950UB head unit. This direct, high-speed, adapter-free connection plus built-in 24-bit Delta Sigma D/A Converter (to improve DAC) assure extraordinary sound quality as well as optimal convenience.



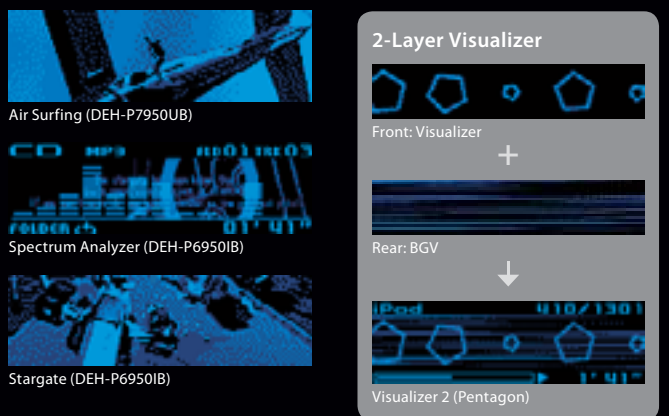
CD-IU50 Interface Cable for iPod®

Optionally available for connecting an iPod nano or iPod® to the DEH-P7950UB.



Pure Blue OEL Display

Pioneer again sets the trend in putting a fresh, brilliant look on display. The Pure Blue OEL display offers a cool, youthful perspective on car entertainment, with eye-catching contrast and brightness, choice of 3D animation images and a wide viewing angle range for clear, trouble-free viewing from virtually any position, even in sunlight. Tabbed menus speed up and simplify monitoring of functions. Display graphics match head unit buttons for smart, easy operation. BGV (Background Visual) function offers various backdrops designed to add interest to source information onscreen.



Rotary Commander

For quick, easy access among even huge volumes of files stored in AAC, MP3 or WMA format, just touch or turn a finger left, right, up, down or center on the Rotary Commander. You can even precisely control graphic equalizer functions of whichever equalizer curve that you select (among Super Bass/Powerful/Natural/Vocal/Custom-1/Custom-2/Flat).



DEH-P6950IB 4-Channel High-Power WMA/MP3/AAC/CD Receiver

NEW



- iPod® direct control
- USB adapter ready
- Pure blue dot-matrix OEL (Organic EL) display
- BMX (Bitmetric Equalizer)
- EEO
- 7-band graphic equalizer
- Rotary Commander
- Direct Sub Drive
- 3 RCA pre-outs (front + rear + subwoofer)
- AUX-in (rear)
- Spectrum analyzer
- Multi-language display (English/Spanish/Portuguese)
- Flap face

DEH-P5950IB 4-Channel High-Power WMA/MP3/AAC/CD Receiver

NEW

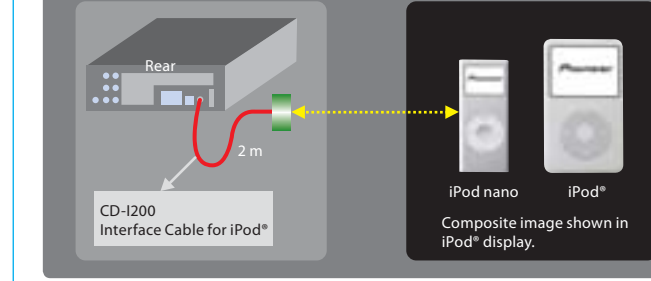


- iPod® direct control
- USB adapter ready
- Segmented OEL display
- BMX (Bitmetric Equalizer)
- EEO
- 3-band parametric equalizer
- Rotary volume
- Direct Sub Drive
- 3 RCA pre-outs (front + rear + subwoofer)
- AUX-in (rear)
- Flap face

iPod® Direct Connection

Connect an iPod® to a Pioneer DEH-P6950IB or DEH-P5950IB for very convenient, direct control of menus (including the latest shuffle function) and songs stored in the iPod® through the head unit front interface. This connection also recharges your iPod® during playback, eliminating concerns about battery depletion.

* A 3rd-, 4th- or 5th-generation iPod® can be connected to either of these head units.



Segmented OEL Display

Clarity, brightness and contrast are balanced to perfection on Pioneer head unit organic electroluminescent displays. An uncluttered two-line character readout is straightforward and easy on the eyes. A wide viewing angle range makes entertainment system operating information simple to monitor from any position under all circumstances.



CD-I200 Interface Cable for iPod®

Optionally available for connecting iPod nano or iPod® to the DEH-P6950IB or DEH-P5950IB.



DEH-P4950MP 4-Channel High-Power WMA/MP3/AAC/CD Receiver



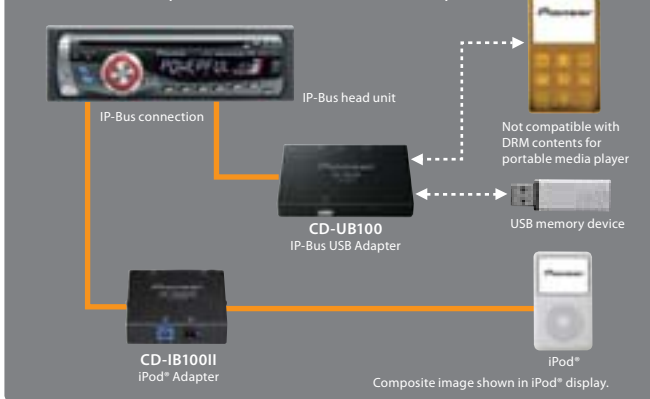
- USB adapter ready
- iPod® adapter ready
- BMX (Bitmetric Equalizer)
- EEQ
- 3-band parametric equalizer
- Rotary volume
- Direct Sub Drive
- 3 RCA pre-outs (front + rear + subwoofer)
- AUX-in (rear)

IP-Bus USB and iPod® Adapter Ready



Open up your ears—it's easy to gain freedom of choice among MP3, WMA, AAC and WAV digital music formats. If your Pioneer head unit is without USB or iPod® interface, you can connect your external digital device using Pioneer's optional IP-Bus USB Adapter or iPod® Adapter.

Connection Example for IP-Bus Head Unit and Adapters



CD-UB100 IP-Bus USB Adapter

This adapter makes it easy to expand a listening library by connecting a head unit to a portable digital player or USB memory device to gain convenient access to digital music files that have been compiled and edited on a PC, then transferred to the portable device.

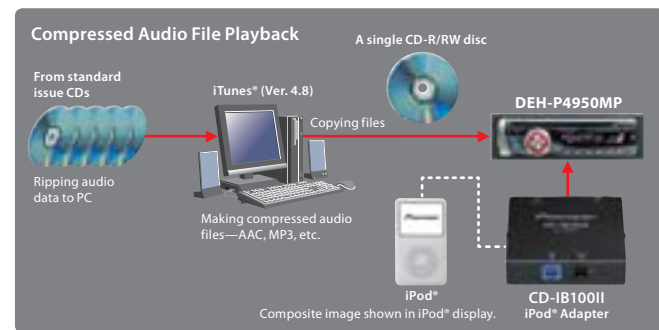


NOTE: Unauthorized copying of music is strictly prohibited. Not every device is compatible. See more details in Pioneer website. Compatible with USB memory device only. Not compatible with DRM (Digital Rights Management) contents and MTP (Media Transfer Protocol) connection players.

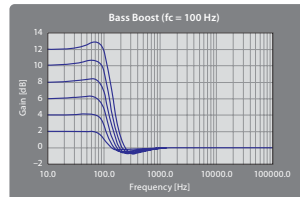
CD-IB100II iPod® Adapter

Play as long as you like. Pioneer's iPod® adapter CD-IB100II makes it easy to access any of up to 15 000 tracks* stored in various digital compression formats on an iPod® portable music player connected to Pioneer's latest head units**.

*iPod® capacity depends on iPod® model and compression format.
**Details on page 11.
NOTES: iPod is for legal or rightholder-authorized copying only. Don't steal music. iPod is a trademark of Apple Computer, Inc., registered in the U.S. and other countries. Depending on the Pioneer head unit installed, some functions may be limited using iPod® adapter.



The result is more precise control over the balance of sounds to enhance the overall impact of the music you listen to.



AUX-In Connection



All models* *Except FH-P9200MP, FH-P5000MP, FH-P4200MP, KEH-P402S, KEH-P203S, RS-D7RII and DEX-P90RS

Each of Pioneer's latest head units has a built-in AUX input for connecting a digital portable player and other external auxiliary devices. For extra-convenient access, the DEH-P3950MP, DEH-2950MP and DEH-1950 have this input on the front panel.

iTunes® AAC (Advanced Audio Coding) Playback

- DEH-P8850MP
- DEH-P7950UB
- DEH-P6950IB
- DEH-P5950IB
- DEH-P4950MP
- FH-P4200MP
- DEH-P80RS

Pioneer's head units play music file formats of AAC (Advanced Audio Coding) using Apple iTunes® software. With Apple iTunes®, transferring your favorite songs and albums from CDs is quick and easy. Just pop a disc into your Mac or PC, and click the Import button to record to your library of tunes in MP3, AAC, or other formats at the quality level you choose.

NOTES: iTunes is a trademark of Apple Computers Inc., registered in the U.S. and other countries. AAC players can decode only those AAC files ripped and encoded using iTunes®.

Bass Boost

- DEH-P7950UB
- DEH-P6950IB
- DEH-P5950IB
- DEH-P4950MP
- DEH-P3950MP

Bass Boost offers a choice between 0 to 12 dB level settings that can be adjusted in 2 dB steps, letting you set the optimal bass level for each speaker and subwoofer connected to a system, according to preference and music style.

DEH-P3950MP 4-Channel High-Power WMA/MP3/CD Receiver



- USB adapter ready
- iPod® adapter ready
- BMX (Bitmetric Equalizer)
- EEQ
- 3-band parametric equalizer
- Rotary volume
- Direct Sub Drive
- 2 RCA pre-outs: selectable (front + rear/front + subwoofer)
- AUX-in (front)

DEH-2950MP 4-Channel High-Power WMA/MP3/CD Receiver



- BMX (Bitmetric Equalizer)
- Rotary volume
- 1 RCA pre-out (rear)
- AUX-in (front)

Single-CD Player

DEH-1950 4-Channel High-Power CD Receiver



- Rotary volume
- 1 RCA pre-out (rear)
- AUX-in (front)

Multi-Format Compatibility* MP3 AAC

With capability to play MP3, WMA (Windows Media™ Audio), iTunes® AAC (Advanced Audio Coding), WAV digital audio files recorded onto various devices and media (USB memory, iPod®, portable media player, CD-R/RW), Pioneer car entertainment systems accommodate the most universally accepted digital compression encoding standards.

*MP3/WMA: Compatible with all models except DEH-1950, KEH-P402S, KEH-P203S, RS-D7RII and DEX-P90RS
AAC: Compatible with DEH-P8850MP, DEH-P7950UB, DEH-P6950IB, DEH-P5950IB, DEH-P4950MP, FH-P4200MP and DEH-P80RS
NOTES: Windows Media and the Windows logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries.

BMX (Bitmetric Equalizer)

All models* *Except DEH-1950, FH-P9200MP, KEH-P402S, KEH-P203S, RS-D7RII and DEX-P90RS

Audio compression formats such as MP3 and WMA tend to lose high-frequency sound levels, especially in passages when recorded signal input is weak.

Pioneer's BMX (Bitmetric Equalizer) compensates for this by boosting playback of upper frequency sound, to the benefit of overall musical balance.

- **BMX1:** Recommended for enhancing brightness and depth of sound and sense of ambient space.
- **BMX2:** Recommended for even richer sound (more volume in the low and middle range) than BMX1 offers.

Direct Sub Drive

Combine the MOSFET 50 W × 4 power amp and EEQ technology to get Direct Sub Drive, another unique Pioneer technology. It enables you to amplify your front speakers by 50 W × 2 and add a 70 W amplified

filtered subwoofer (in 2 ohm mode) in the rear to enjoy outstanding full-power bass without an extra amplifier. It's an easy solution for lovers of booming bass.

FH-P9200MP 4-Channel High-Power WMA/MP3/CD/MD Receiver

MOSFET 50Wx4 OEL MP3 IP-BUS control SUPER TUNER III DSP BBE DIGITAL Subwoofer control CD-R/RW



Microphone for Auto EQ

- Dot-matrix OEL (Organic EL) display
- USB adapter ready
- iPod* adapter ready
- Built-in DSP
 - Auto EQ
 - 4-mode digital SFC
 - Digital listening position selector
 - Auto time alignment
 - Digital 13-band graphic equalizer
 - 3-way digital network
- MDLP with ATRAC 3
- Auto-slide face
- Pop-up rotary volume
- 3 RCA pre-outs (front + rear + subwoofer)
- Level indicator
- Spectrum analyzer

FH-P5000MP 4-Channel High-Power WMA/MP3/CD/Cassette Receiver

MOSFET 50Wx4 MP3 IP-BUS control SUPER TUNER III DSP BBE DIGITAL Subwoofer control CD-R/RW



- USB adapter ready
- iPod* adapter ready
- BMX (Bitmetric Equalizer)
- Burr Brown D/A Converter
- Built-in DSP
 - Digital listening position selector
 - Time alignment
 - Digital 13-band graphic equalizer
 - Auto-slide face
- Dolby B NR
- Color changeable illuminated bar (10 colors, plus Rainbow and Mirage modes)
- 2 RCA pre-outs: selectable (front + rear/ front + subwoofer)
- Level indicator
- 7-band spectrum analyzer

FH-P4200MP 4-Channel High-Power WMA/MP3/AAC/CD/Cassette Receiver

MOSFET 50Wx4 MP3 AAC IP-BUS control SUPER TUNER III DSP BBE DIGITAL Subwoofer control CD-R/RW



- USB adapter ready
- iPod* adapter ready
- BMX (Bitmetric Equalizer)
- Digital direct
- Built-in DSP
 - 3-mode digital SFC
 - Digital listening position selector
 - Digital 9-band graphic equalizer
- Dolby B NR
- 1 RCA pre-out: selectable (subwoofer/ non-fading)
- 5-band spectrum analyzer
- Level indicator

Multi-CD Players

CDX-P1280

IP-Bus 12-Disc Multi-CD Player



- CD-R/RW playback with skip play
- ADPS (Automatic Disc Program Selection)
- Disc title memory: 100 titles
- ITS (Instant Track Selection)

CDX-P680

IP-Bus 6-Disc Multi-CD Player

CDX-FM1287

FM-Modulated 12-Disc Multi-CD Player



CDX-FM687

FM-Modulated 6-Disc Multi-CD Player



CDX-FM1287

Display with control key

- CD-R/RW playback with skip play
- Built-in FM modulator
- Display with control key
- Wireless card remote controller (included)
- ADPS (Automatic Disc Program Selection)
- Disc title memory: 100 titles
- ITS (Instant Track Selection)
- IP-Bus output for direct head unit connection

Cassette Players

KEH-P4025

4-Channel High-Power Cassette Receiver

MOSFET 50Wx4 SUPER TUNER III 1 RCA pre-out BBE DIGITAL DETACHABLE FACE SECURITY



CD-R30-02 (Optional remote controller)

- iPod* adapter ready
- Full-logic mechanism
- 1 RCA preout (rear)
- Multi-CD control
- Optional remote controller available

KEH-P2035

4-Channel High-Power Cassette Receiver

SUPER TUNER III 1 RCA pre-out DETACHABLE FACE SECURITY



- iPod* adapter ready
- BTB (Bass/Treble Booster)
- 2-mode selectable loudness
- 1 RCA preout (rear)
- Radio intercept
- Multi-CD control (pause and repeat)

Built-in 50 W x 4-Channel High-Power MOSFET Amplifier MOSFET 50Wx4 All models* *Except KEH-P2035, RS-D7R11 and DEX-P90RS

To minimize voltage loss in its head unit amplifiers, Pioneer built-in high-performance Power MOSFET integrated circuitry that processes signals efficiently at 50 W x 4 maximum total output.

High-speed MOSFET switching reduces distortion to virtually nothing at high frequency ranges, thanks to superior characteristics of linearity that smooth the signal transmission path from input to output. Pioneer's independent routing of

input and output current is essential to obliterating distortion.

High power of 50 W per channel and characteristics of the bonding wire ensure excellent sound quality. The 99.99 % pure OFC (oxygen-free copper) bonding wire has low electrical resistance, so minimal electric power is lost as heat in the IC chip, enhancing power handling efficiency as well as sound quality.



Power MOSFET high-power IC chip

EEQ (Easy Equalizer) EEQ All models* *Except KEH-P2035, RS-D7R11 and DEX-P90RS

Sound shaping is at your command. You can adjust the sound according to in-car acoustic characteristics and the music you listen to.

5-Mode Preset Equalizer

You can switch among five preset equalization curves* (Super Bass/ Powerful/Natural/Vocal/Flat) simply by pushing an EQ button. Each of these settings boosts bass and high-frequency ranges in ways that suit the music best.

*Dynamic/Powerful/Natural/Vocal/Flat in the DEH-2950MP and DEH-1950.

2-Mode Custom Preset Equalizer

Create and memorize your favorite equalization curves from an amazing variety of sound-shaping dimensions and combinations, just as you like. Custom-1 mode can memorize adjusted preset curves using 7-band* digital equalizer settings for each source (Source EQ memory). Custom-2 mode can register your favorite custom curve (based on Flat mode** curve) for all sources using the 7-band* digital equalizer.

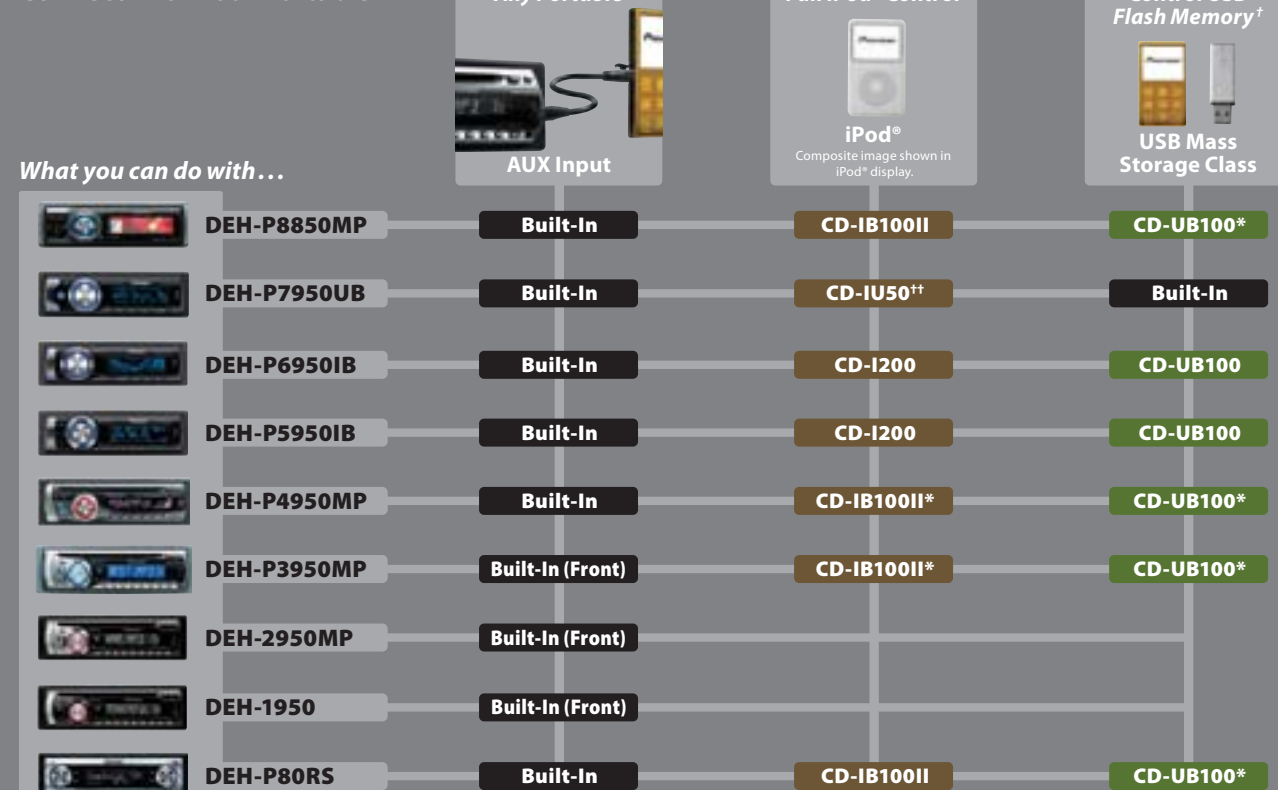
* L/R common 16-band for DEH-P8850MP and L/R independent 16-band for DEH-P80RS. ** Flat mode also remains after customizing equalization curve.

1-Mode Custom Preset Equalizer

Pioneer's head units feature a 1-mode custom preset equalizer for creating your

	DEH-P8850MP	DEH-P7950UB	DEH-P6950IB	DEH-P5950IB	DEH-P4950MP	DEH-P3950MP	DEH-2950MP	DEH-1950	FH-P9200MP	FH-P5000MP	FH-P4200MP	KEH-P4025	DEH-P80RS
5-mode preset equalizer	•	•	•	•	•	•	•	•	•	•	•	•	•
Custom preset equalizer <2 = 2-mode, 1 = 1-mode>	2	2	2	1	1	1	1	1	2	2	2	1	2
Digital graphic equalizer <16 = 16-band, 13 = 13-band, 9 = 9-band, 7 = 7-band> <L/R = L/R independent>	16	7	7						13	13	9		16 L/R
2-way crossover: HPF/LPF <L/R = L/R independent>	•	•	•	•	•	•	•	•	•	•	•		L/R
3-band parametric equalizer													
Bass Boost													
Selectable loudness <3 = 3-mode, 2 = 2-mode>		3	3	3	3	3	2	2				3	
Selectable FIE (Front Image Enhancer)				•	•	•						•	

Connect With Your Portable



* External control
 ** Not every device is compatible. See more details in Pioneer website. Compatible with MSC (Mass Storage Class). Not compatible with DRM (Digital Rights Management) contents.
 *** Compatible with iPod* (5th generation or later/Firmware Version 1.2 or later/iPod nano Version 1.2 or later). A 3rd or 4th generation iPod* requires CD-IB100II.

PUSH FOR PURER PERFECTION

As an innovator, Pioneer doesn't compromise. This approach takes purest form in Optical Digital Reference (ODR) and Pure Component—head unit, power amp and speaker systems created in pursuit of sound approaching original source quality, and crafted to perfection to ride the digital era at the cutting edge of car audio.

ODR (Optical Digital Reference) and RS Speaker Systems

RS-D7RII Component CD Receiver



- High precision sound master clock circuitry
- Hi-quality CD drive
- Hi-bit conversion
- Digital direct
- Frequency change: 96 kHz to 44.1 kHz
- Source DVD control
- Digital optical input/output
- IP-Bus input/output
- External unit control via IP-Bus (2 units)
- AUX-in (with optional CD-RB20)
- White dot-matrix OEL (Organic EL) display
- Auto-slide face
- Rotary volume (High quality feel is enhanced by using aluminum for the volume and cross key while adding spinning graved finish on it)
- Use of dual LED for button illumination (White or red selectable)
- Display off mode
- OFC power/ground cable
- Dual illumination (white or red selectable)



Red illumination

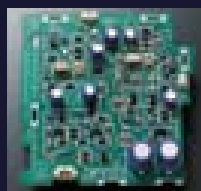
RS-P90 Universal Digital Pre-Amplifier



- Advanced Segment 24-bit D/A Converter
- Digital listening position selector
- Time Alignment
- Parametric bass/treble control
- 31-band L/R independent graphic equalizer (1/3 oct.) with level control (±12 dB/0.5 dB steps)
- 3-band L/R independent parametric equalizer (1/3 oct.) with level control (±12 dB/0.5 dB steps)
- 4-way independent L/R crossover network (high/mid/low/subwoofer)
- Crossover frequency: 20 Hz to 20 000 Hz (1/3 oct.)
- Crossover slope: 0 dB to -72 dB
- Crossover presets: 5
- Gold-plated 8-channel RCA output (high/mid/low/subwoofer)
- Gold-plated screw-type power/ground terminals
- The one-sided terminals and the square aluminum bonnet that rotates by every 90 degrees considered for installation
- High-performance 32-bit floating binary point type DSP

High-Precision Sound Master Clock Circuitry

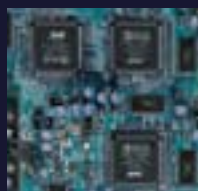
RS-D7RII
The latest integrated circuits require superior clock signal quality to handle digital data accurately without distortion at ever-higher speeds. Dual independent Sound Master Clock Circuitry in the RS-D7RII generates clock waveforms to read and process digital signals with ultra-precision, and eliminate jitter noise in transmission. The result: extraordinarily clear, pure sound.



Clock circuit board

High-Performance SHARC Digital Signal Processors

RS-P90
For remarkably precise 32-bit sound processing, the circuitry of the RS-P90 is mounted with three high-performance Analog Devices SHARC DSPs, for left-channel, right-channel and coefficient calculation.



High-performance SHARC DSP x 3

RS-A9

Digital Integrated Power Amplifier

Limited distribution

600 W MAX.

DSP

- 50 W x 4 (4 Ω)/75 W x 4 (2 Ω)/150 W x 2 (4 Ω) (continuous power)
- 100 W x 4 (4 Ω)/300 W x 2 (4 Ω) (max. power)
- High-performance 32-bit floating binary point type DSP
- Built-in DSP (Digital Signal Processor) (FIR)
- 31-band L/R independent digital graphic equalizer (±12 dB/0.5 dB steps)
- 3-band L/R independent digital parametric equalizer (±12 dB/0.5 dB steps)
- 5-mode preset memory
- Time alignment
- Digital listening position selector
- Parametric bass/treble controls

- Digital compression
- 4-way L/R independent digital crossover network (high/mid/low/subwoofer)
- Crossover frequency: 20 Hz to 20 000 Hz (variable)
- Crossover slope: 0 dB to -72 dB
- 1 optical digital input
- 3 optical digital outputs (mid/low/subwoofer)



RS-A9



SHARC® DSP chip

Common Features

- Bridgeable 2/3/4-channel capability
- Current feedback amplifier
- Full balanced system (bridgeable connection)
- Multi 24-bit Burr Brown D/A converters
- IP-Bus input/output
- Gold-plated screw-type speaker terminals
- Gold-plated large screw-type power/ground terminals
- Low load impedance capability (2 ohm to 8 ohm)
- Copper-plated chassis
- L/R independent power supply
- Sound master clock
- DAC volume

RS-A7

Digital Power Amplifier

Limited distribution

600 W MAX.

- 50 W x 4 (4 Ω)/75 W x 4 (2 Ω)/150 W x 2 (4 Ω) (continuous power)
- 100 W x 4 (4 Ω)/300 W x 2 (4 Ω) (max. power)
- 2 optical digital inputs

Caution: To avoid damaging your amplifier/subwoofer system, please make sure that the continuous power output of the amplifier is lower than the nominal power handling of the subwoofer.

TS-W01RS

25 cm (10") Component Subwoofer

300 W MAX.



- 25 cm cone woofer with integrated dust cap
- Space-saving small-enclosure-type design (recommended enclosure: 14 l to 28 l / 0.49 cu.ft. to 0.99 cu.ft.)
- Biased thickness type butyl rubber surround
- Large-sized ø140 mm voice coil with multiple neodymium magnets
- Shallow mounting aluminum die-cast basket
- Gold-plated large screw-type terminals

TS-S01RS

7.7 cm Component Midrange Speaker

50 W*/60 W** MAX. *With speaker unit only **With back chamber



TS-S01RS with back chamber

- 7.7 cm cellulose cone midrange speaker
- DLC (Diamond Like Carbon) coated titanium dust cap
- Zinc die-cast back basket
- Glass cloth voice coil bobbin
- Heat-resistant ribbon voice coil with neodymium magnet
- Gold-plated large screw-type terminals

TS-M01RS

17 cm Component Mid-Bass Speaker

120 W MAX.



- 17 cm cone mid-bass speaker
- Corrugation surround
- Copper ribbon short voice coil with neodymium magnet
- Bottom hold design zinc die-cast one-piece chassis
- Tungsten damper holder* with anti-resonance structure
- Gold-plated large screw-type terminals
- Use with UD-N01RS 2-Way Passive Crossover Network

* Patent pending

TS-T01RS

3.5 cm Component Tweeter

120 W MAX.



- 3.5 cm tweeter with dual arc ring diaphragm*
- Lightweight aluminum voice coil with neodymium magnet
- Ion-plated titanium diaphragm
- Zinc die-cast frame
- Tungsten cone holder* with anti-resonance structure
- Aluminum die-cast mounting bracket included
- Gold-plated large screw-type terminals
- Use with UD-N01RS 2-Way Passive Crossover Network

* Patent pending

UD-N01RS

2-Way Passive Crossover Network

• Use with TS-M01RS and TS-T01RS



Large ø140 mm Voice Coil

TS-W01RS

The TS-W01RS's magnetic circuit structure uses a voice coil with large ø140 mm diameter to drive the center part of the entire speaker cone to improve transient.

Multiple neodymium magnets creating powerful magnetic flux help drive the cone with exceptional strength and accuracy.

The large vent in the center of the speaker back is maximized for fine control to reduce air resistance. The result: more accurate bass reproduction.

Compact Enclosure

We design our subwoofer cones for compact (14 to 28 liters) speaker enclosures.



Shallow mounting aluminum die-cast basket and large ø140 mm voice coil

Dual Arc Ring Tweeter Diaphragm*

TS-T01RS

The TS-T01RS's Dual Arc Ring Diaphragm, based on Pioneer's Super Wide Range Tune innovation, reliably reproduces clear sound audible up to super-high 48 kHz frequency.

The inside and outside of the center drive-type ring diaphragm are shaped differently from each other, and vibrate to varying degrees for various frequencies. But these frequencies are mixed in such a way as

High-Quality Mid-Bass Pulp Cone

TS-M01RS

We carefully choose the pulp fiber mix of our speaker cone material to ensure the proper characteristics for optimal quality and linear reproduction of sound throughout a wide frequency range.

Dust cap uses high-inner-loss-type pulp exclusively developed for superior smooth frequency response. Dust cap has a concave shape, and suppresses resonance inside the magnetic circuits.

Its corrugation surround effectively absorbs unwanted vibration, achieves excellent linearity and reduces interference of cone and surround.



Corrugation surround

to achieve smooth characteristics (which is good in terms of sound reproduction). The diaphragm, made of light, rigid titanium is ion-plated on its surface, helping to minimize distortion. 35 mm in diameter, it offers to extend low-frequency reproduction and precise, accurate sound staging.

* Patent pending



Dual arc ring diaphragm

HQ Active Component Systems

DEX-P90RS Component CD Receiver



- White dot-matrix OEL (Organic EL) display
- Source DVD control
- Multi 24-bit D/A Converters with 8x oversampling digital filter
- Rotary volume
- Auto-slide face
- 3 gold-plated RCA pre-outs (front + rear + non-fading)
- Optical input/output
- External unit control via IP-Bus (2 units)
- AUX-In (with optional CD-RB20)
- High-quality hairline aluminum front panel
- Display off mode

DEQ-P90 Component Digital Signal Processor

DSP Hi-VOLT



- Built-in DSP
 - Multi 24-bit Burr Brown D/A Converters
 - 5-mode preset equalizer
 - Digital listening position selector
 - Time alignment
 - Parametric bass/treble controls
 - 31-band L/R independent equalizer (±12 dB/0.5 dB steps)
- Built-in crossover network (L/R)
 - Crossover frequency: 20 Hz to 20 000 Hz (variable)
 - Crossover slope: 0 dB to –36 dB
 - Crossover presets: 5
 - 4-way independent L/R crossover network (high/mid/low/subwoofer)
- Optical Input (with DEX-P90RS)
 - Gold-plated 8-channel RCA output (high/mid/low/subwoofer)
 - Gold-plated screw-type power/ground terminals

TS-W12PRS

30 cm (12") Component PRS Subwoofer



- 30 cm (12") enclosure use subwoofer
- KEVLAR® Brand Fiber/pulp composite cone with integrated VCCS (Voice Coil Cooling System)
- Dual-layer rolled urethane surround
- Dual Voice Coil (DVC) design (2 x 4 Ω)
- 4-spoke aluminum die-cast basket
- Aluminum die-cast basket
- Gold-plated binding posts
- Small enclosure capability
- Spoke grille compatible (UD-G307)

TS-M171PRS

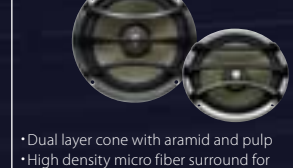
17 cm Component PRS Mid-Bass Speaker



- 3-layer aramid fiber with IMPERSONAL composite cone
- Heat-resistant ribbon voice coil
- High density micro fiber surround for smoother response
- Aluminum die-cast basket
- Gold-plated screw-type terminals
- Spoke grille included

TS-S101PRS

10 cm Component PRS Midrange Speaker



- Dual layer cone with aramid and pulp
- High density micro fiber surround for smoother response
- Heat-resistant ribbon voice coil with neodymium magnet
- Glass cloth voice coil bobbin
- Aluminum die-cast basket
- Gold-plated screw-type terminals
- Spoke grille included (removable magnet cover for flexible mounting)

TS-T031PRS

28 mm Component PRS Soft-Dome Tweeter



- 28 mm polyester soft-dome tweeter with dual neodymium magnet
- Heat-resistant voice coil
- Aluminum die-cast cabinet
- Gold-plated screw-type terminals
- Surface, flush or invisible tweeter mounting kit

The Ultimate in Audio Tech

For Component Single-CD Player

Hi-Bit Conversion
The RS-D7RII and DEX-P90RS upgrade the original CD audio signals from 16-bit to 24-bit, and increase CD data resolution by a factor of 256. The result: lower quantization noise, expanded dynamic range, minimal processing error, and superior linearity, delivering sound as it was meant to be reproduced and heard.

For RS and PRS Power Amplifiers

Current Feedback Type Power Amplifier Circuitry*
For high-resolution sound amplification, this circuitry uses MOSFET** in the final output stage for extremely high slew rate that results in quicker input signal response, wide range characteristics and low distortion.

*RS-A9/RS-A7/PRS-A500
**PRS-D2000SPL/PRS-D1200SPL/PRS-D4100F/PRS-D2100T/PRS-D1100M/PRS-A500

L/R Independent Power Supply*

This new circuit design's L/R independent symmetric layout improves channel separation. Independently mounted large DC-DC converter power supply directs electric current more effectively, with superior stability.

*RS-A9/RS-A7/PRS-A500

For Digital Signal Processor



4-Way L/R Independent Digital Crossover Network

Optimize the balance of speaker output by adjusting sound pressure level or left and right channels independently, according to listener position and system configuration.

Time Alignment

Signal output of each speaker can be calibrated in 1/20 000-second* increments, for optimal phasing of sound from the system, according to listener position. Precise equalization and suppression of frequency response disturbance makes for a clearer, more focused soundstage.

*RS-A9: 1/40 000-second

Digital delay processing makes all speakers sound as if they are virtually equidistant from the listener, for a clearer, front-focused soundstage.

31-Band L/R Independent Digital Equalizer

This finely tunes equalization of the sound curve and independently adjusts for slight differences between left and right channel frequency response for truer, clearer sound.

PRS-D2000SPL

Class-D Mono Amplifier

NEW

4000 W MAX.



- 750 W x 1 (4 Ω)/1 500 W x 1 (2 Ω)/2 000 W x 1 (1 Ω) (continuous power)
- 1 500 W x 1 (4 Ω)/3 000 W x 1 (2 Ω)/4 000 W x 1 (1 Ω) (max. power)

- 0/1-gauge, large block-type gold-plated power/ground terminals



SPL champion edition
The pride of a winner takes world-leading DNA

PRS-D2000SPL

PRS-D1200SPL

Class-D Mono Amplifier

NEW

2400 W MAX.



- 500 W x 1 (4 Ω)/1 000 W x 1 (2 Ω)/1 200 W x 1 (1 Ω) (continuous power)
- 1 000 W x 1 (4 Ω)/2 000 W x 1 (2 Ω)/2 400 W x 1 (1 Ω) (max. power)

- 4-gauge, large block-type gold-plated power/ground terminals
- PWM regulated power supply with MOSFET switching



Large block-type gold-plated power/ground terminals (PRS-D2000SPL)

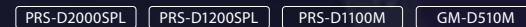


Gold-plated RCA sync control input and output terminals (PRS-D2000SPL)

Common Features

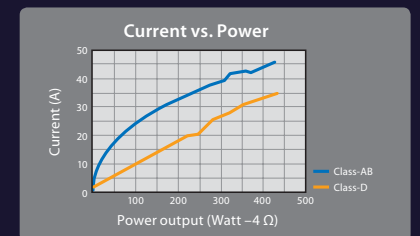
- Variable LPF (40 Hz to 240 Hz, –24 dB/oct.)
- Input level control (400 mV to 6.5 V)
- Low load impedance capability (1 ohm to 8 ohm)
- Gold-plated RCA input and output terminals
- 4-gauge, large block-type gold-plated speaker terminals
- Variable Bass Boost Remote (40 Hz to 120 Hz, 0 dB to +12 dB)
- Subsonic filter (20 Hz, –24 dB/oct.)
- SYNC control
- High-performance balanced isolator circuit
- High-efficiency MOSFET output section
- MASS (Multiple Amplifier Synchronization System)
- Removable terminal/settings cover

Class-D Amplifiers

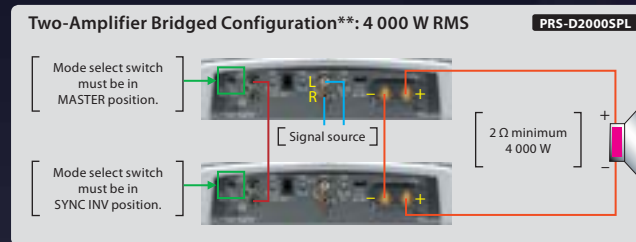
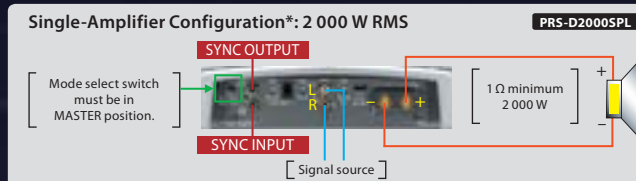
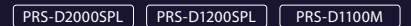


Class-D amplifiers overcome the inefficiencies of traditional Class-A or AB amplifiers. Pioneer's Class-D amps transform very little power into heat while a very high percentage of the power supply (67%) is transformed into the load. This results in a very compact amp which needs little input power to produce very high output power. The Class-D amplifier's PWM (Pulse Width Modulator) modulates the original audio input

signal with another signal which has a much higher fixed frequency. The result is 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 high frequency pulses and the resulting amplified output signal is then sent to the subwoofer and/or speakers.



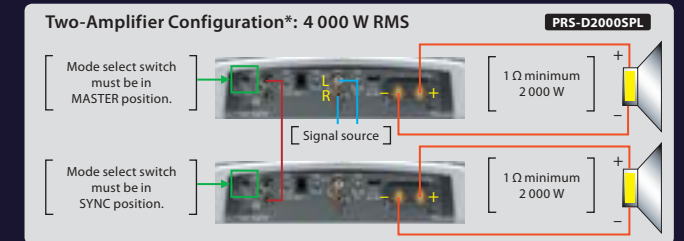
MASS (Multiple Amplifier Synchronization System) Connection Examples



- Wiring for speaker must be 10 AWG minimum.
- Load may be any combination of speakers but impedance must be 1 Ω or larger.
- Load may be any combination of speakers but impedance must be 2 Ω or larger.

With the PRS-D2000SPL, PRS-D1200SPL and PRS-D1100M's SYNC connection, adjustment of the master amplifier also adjusts all other amplifiers in the cascade. This makes control simpler and more convenient.

* These are only a few examples of connection configurations for the PRS-D2000SPL. Ask your nearest car stereo installer or dealer about power/ground wiring and installation details for the PRS-D2000SPL, PRS-D1200SPL and PRS-D1100M.



* 1 Ω minimum speaker impedance for this configuration or damage will occur.
** 2 Ω minimum speaker impedance for this configuration or damage will occur.
Caution: Having more than four amps in a sync configuration is not recommended. Sine waves can put excessive stress on an audio system, so if a sine wave source is used at high output level, damage can occur.

PRS-A500 2-Channel Bridgeable Power Amplifier

600 W MAX.



- 100 W x 2 (4 Ω)/300 W x 1 (4 Ω)/150 W x 2 (2 Ω) (continuous power)
- 200 W x 2 (4 Ω)/600 W x 1 (4 Ω) (max. power)
- Bridgeable 1/2/3-channel capability
- Current feedback amplifier
- L/R independent power supply
- Variable LPF/HPF (40 Hz to 120 Hz, –12 dB/oct.)
- High-voltage input level control (200 mV to 6.5 V)
- Input level/gain control (L/R independent)

- Low load impedance capability (2 ohm to 8 ohm)
- Carved gold-plated RCA input terminals
- Gold-plated screw-type speaker terminals
- Gold-plated large screw-type power/ground terminals
- PWM regulated power supply with MOSFET switching
- High-performance balanced isolator circuit
- High-efficiency MOSFET output section



Caution: To avoid damaging your amplifier/subwoofer system, please make sure that the continuous power output of the amplifier is lower than the nominal power handling of the subwoofer.

Reference Sound Systems

DEH-P80RS Component CD Player/Receiver



- White dot-matrix OEL (Organic EL) display
- Aluminum-plated face panel
- iTunes* AAC playback
- WAV file playback
- iPod* adapter ready
- USB adapter ready
- Burr Brown advanced segment-type D/A Converter
- Built-in DSP
 - EEQ
 - 5-mode preset equalizer
 - 2-mode custom preset equalizer
 - Auto EQ
 - Auto EQ for 3-way network
 - BBE* digital sound processing
 - Digital listening position selector
- Auto time alignment
 - BMX (Bitmetric Equalizer)
 - L/R independent 16-band digital graphic equalizer
 - L/R independent 2-way crossover: HPF/LPF
 - L/R independent 3-way crossover: high/mid/low
- Auto-slide face
- Rotary Commander
- 3 gold-plated RCA pre-outs (front + rear + subwoofer)
- Level indicator
- Spectrum analyzer
- Multi-language display (English/Spanish/Portuguese)



PRS-D4100F

Class-FD 4-/2-Channel Bridgeable Amplifier



- 75 W x 4 (4 Ω)/300 W x 2 (4 Ω)/150 W x 4 (2 Ω) (continuous power)
- 150 W x 4 (4 Ω)/600 W x 2 (4 Ω) (max. power)
- Bridgeable 2/3/4-channel capability

PRS-D2100T

Class-FD 2-Channel Bridgeable Amplifier



- 150 W x 2 (4 Ω)/600 W x 1 (4 Ω)/300 W x 2 (2 Ω) (continuous power)
- 300 W x 2 (4 Ω)/1 200 W x 1 (4 Ω) (max. power)
- Bridgeable 1/2-channel capability
- Bass Boost Remote (50 Hz, 0/+6/+9/+12 dB)

- Common Features**
- Variable LPF/HPF (40 Hz to 500 Hz, -12 dB/oct.)
 - Input level control (400 mV to 6.5 V)
 - Low load impedance capability (2 ohm to 8 ohm)
 - Gold-plated RCA input and output terminals

- Gold-plated screw-type speaker terminals
- Gold-plated large screw-type power/ground terminals
- All terminals placed on one side
- Removable terminal/settings cover
- Speaker level input (1.6 V to 26 V)

- Speaker line input turn-on sensor
- PWM regulated power supply with MOSFET switching
- High-performance balanced isolator input circuit
- High-efficiency MOSFET output section
- Aluminum die-cast heatsink

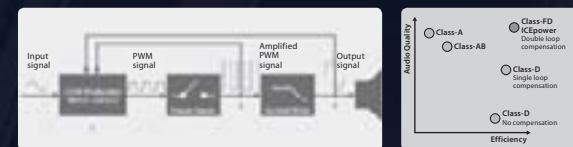


PRS-D4100F

Class-FD ICEpower Amplifiers

Pioneer brings together its cutting-edge Class-D circuitry and ICEpower digital amplifier technology to create Class-FD (Full Range Class-D) ICEpower amplifiers that deliver superior performance and sound quality in car entertainment. Combining the unsurpassed efficiency of Class-D amps with the ultra-clean sound of Class-AB amplifiers, COM (Controlled Oscillation Modulation) technology not only eliminates unnecessary sensitivity to imperfect power supplies [1]—it compares the amplified PWM (Pulse Width Modulation) signal with the original input signal [2], compensating for any variance and lowering distortion in the process.

MECC (Multivariable Enhanced Cascade Control) compensating for load-dependent frequency response, improving this response as this system receives analog signals from the output filter [3]. The result is truer fidelity featuring tight bass with minimal lag effect; crisp, airy mids and highs; and unsurpassed specifications contributing to qualities that outperform those of other premium-quality amplifiers.



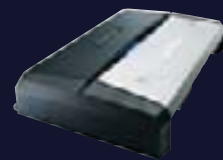
PRS-D1100M Class-D Mono Amplifier



- Normal mode: 400 W x 1 (4 Ω)/600 W x 1 (2 Ω) (continuous power)
- Hi-current mode: 150 W x 1 (4 Ω)/300 W x 1 (2 Ω)/600 W x 1 (1 Ω) (continuous power)
- 800 W x 1 (4 Ω)/1 200 W x 1 (1 Ω, 2 Ω) (max. power)
- Variable LPF (40 Hz to 240 Hz, -18 dB/oct.)
- Input level control (400 mV to 6.5 V)
- Low load impedance capability (1 ohm to 8 ohm)

- Gold-plated RCA input and output terminals
- Gold-plated screw-type speaker terminals
- Gold-plated large screw-type power/ground terminals
- All terminals placed on one side
- Removable terminal/settings cover
- Speaker level input (1.6 V to 26 V)
- Speaker line input turn-on sensor
- Bass Boost Remote (50 Hz, 0/+6/+9/+12 dB)

- Subsonic filter (20 Hz, -18 dB/oct.)
- SYNC control
- PWM regulated power supply with MOSFET switching
- High-performance balanced isolator input circuit
- High-efficiency MOSFET output section
- MASS (Multiple Amplifier Synchronization System)
- Aluminum die-cast heatsink



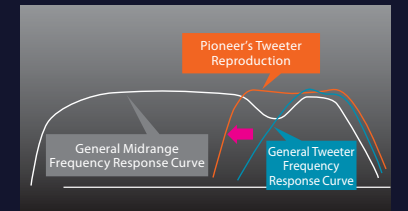
Caution: To avoid damaging your amplifier/subwoofer system, please make sure that the continuous power output of the amplifier is lower than the nominal power handling of the subwoofer.

GET CLOSER TO NATURE—NEW OPEN & SMOOTH SOUND

With their extra-wide directivity, low tweeter crossover frequency and distortion, plus light, rigid IMPP cones, Pioneer's new PRS speakers realize a level of in-car audio quality that deserves its own name: "Open & Smooth" sound—a rich, natural, wide-open sound balancing midrange and tweeter output with outstanding smoothness and linearity.



Wider Response, Lower Crossover
Pioneer expands lower-frequency response in tweeters for fuller midrange fidelity.



TS-C171PRS

Rear view

TS-C171PRS

17 cm Packaged Component Speaker System

- 200 W MAX.
- 17 cm woofer
- Shallow mount adapters included

Common Features

- 3-layer aramid fiber with IMPP composite cone
- High density micro fiber surround for smoother response
- Short voice coil & wide magnetic field design for symmetric & linear cone motion
- Dual OFC short ring for reduced distortion
- Aluminum die-cast bottom hold one-piece rigid chassis
- Aluminum die-cast center plug
- 28 mm lightweight soft-dome tweeter
- Cancel magnet design for extremely high density magnetic field
- Rear chamber for lower crossover frequency

TS-C131PRS

13 cm Packaged Component Speaker System

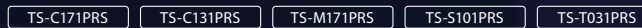
- 150 W MAX.
- 13 cm woofer

Common Features

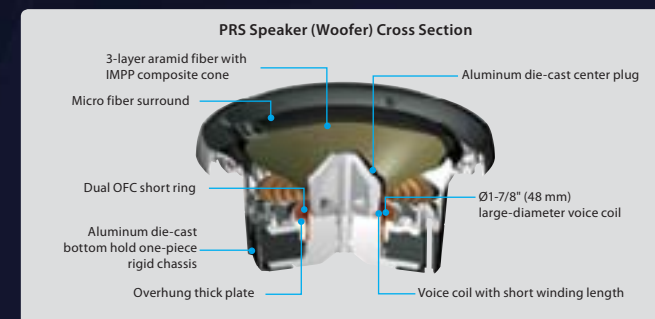
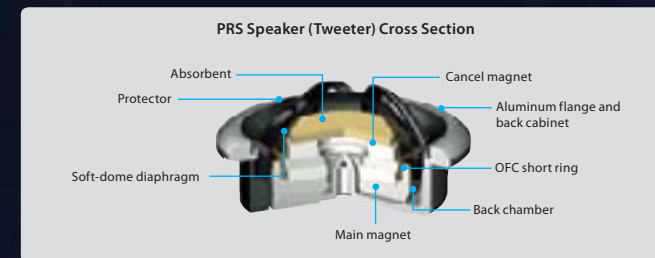
- Aluminum die-cast tweeter chassis
- Surface (angled), flush or invisible tweeter mounting kit
- Audiophile-grade outboard crossover network included with -12 dB/oct. LPF/HPF
- Protection circuit and 3-step tweeter level adjustment
- Gold-plated screw-type terminals

TS-C171PRS/TS-C131PRS Tweeter Specifications
• Dimensions (W x H x D): ø55 mm x 27.1 mm (surface mount)
• Mounting depth: 12.2 mm
• Cut-out dimensions: ø47 mm
*See page 35 for woofer dimensions.

PRS Speakers



Pioneer advances the proud heritage of its IASCA (International Auto Sound Challenge Association) award-winning Premier Reference Series. These speakers' superior response, linearity and sound directivity improve low- and mid-frequency reproduction, while making highs and lows sound smoother and more open.



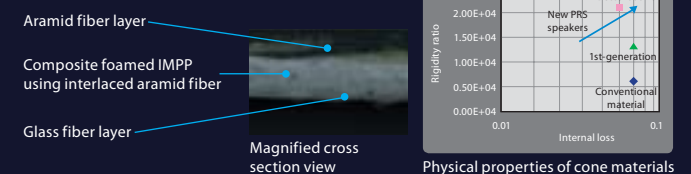
Micro Fiber Surround: Maximum Musical Response

The strong, high-density micro fiber material surrounding the woofer of a PRS speaker is very light and low in resistance and internal loss characteristics. This enhances linearity of the short winding length of the voice coil, thereby optimizing efficiency. Moreover, micro fiber doesn't stretch so it does a better job than other materials to control vibration and enables higher power input. The result is faster response and more accurate bass reproduction that allows all music to be heard to greatest advantage.



2nd-Generation Multilayer Cone: First-Class Sound Reproduction

For the new PRS speakers, Pioneer also developed a multilayer woofer cone in an even better formulation, sandwiching composite foamed IMPP using interlaced aramid fiber between a woven carbon-blended aramid fiber layer and a glass fiber layer. This rigid cone structure provides impeccable midrange frequency reproduction and overall sound quality. The cone material is also supremely light and uniform in its physical properties because it is made without adhesives using an advanced injection molding process.



POWER TO OUTPERFORM

Impact immortalizes music. Pioneer drives its power to greater extremes through amplifiers with the range to process signals with digital precision along their advanced circuit paths, across the spectrum of sound, down to subwoofers-level depths, smoothly maintaining the pure integrity of the original sound all the way.



GM-7300M

GM-7300M

Mono Amplifier

NEW

800 W MAX. LPF RCA INPUT SPEAKER INPUT Bass Boost

- 250 W x 1 (4 Ω)/360 W x 1 (2 Ω) (continuous power)
- 500 W x 1 (4 Ω)/800 W x 1 (2 Ω) (max. power)
- Variable LPF (40 Hz to 240 Hz, -12 dB/oct.)
- High-voltage input level control (400 mV to 6.5 V)
- Input level/gain control

- Low load impedance capability (2 ohm to 8 ohm)
- RCA input terminals
- Screw-type speaker terminals
- Large screw-type power/ground terminals
- Speaker level input (1.6 V to 26 V)

- Bass Boost (50 Hz, 0 dB/+6 dB/+12 dB)
- PWM regulated power supply with MOSFET switching
- High-performance balanced isolator circuit
- Black heatsink with aluminum plate



GM-4300F

GM-6300F NEW

4-Channel Bridgeable Power Amplifier

600 W MAX.

LPF HPF RCA IN/OUT SPEAKER INPUT

- 60 W x 4 (4 Ω)/150 W x 2 (4 Ω)/75 W x 4 (2 Ω) (continuous power)
- 120 W x 4 (4 Ω)/300 W x 2 (4 Ω) (max. power)

GM-4300F NEW

4-Channel Bridgeable Power Amplifier

400 W MAX.

LPF HPF RCA IN/OUT SPEAKER INPUT

- 40 W x 4 (4 Ω)/100 W x 2 (4 Ω)/50 W x 4 (2 Ω) (continuous power)
- 80 W x 4 (4 Ω)/200 W x 2 (4 Ω) (max. power)

Common Features

- Bridgeable 2/3/4-channel capability
- LPF/HPF (80 Hz, -12 dB/oct.) for A and B channels
- High-voltage input level control (400 mV to 6.5 V)
- Input level/gain control
- Low load impedance capability (2 ohm to 8 ohm)
- RCA input and output terminals*
- Screw-type speaker terminals
- Large screw-type power/ground terminals
- Speaker level input (1.6 V to 26 V)
- PWM regulated power supply with MOSFET switching
- High-performance balanced isolator circuit
- Black heatsink with aluminum plate

*Output for A-channel



GM-3300T

GM-5300T NEW

2-Channel Bridgeable Power Amplifier

760 W MAX.

LPF RCA INPUT SPEAKER INPUT Bass Boost

- 125 W x 2 (4 Ω)/380 W x 1 (4 Ω)/190 W x 2 (2 Ω) (continuous power)
- 250 W x 2 (4 Ω)/760 W x 1 (4 Ω) (max. power)
- Bass Boost (50 Hz, 0 dB/+6 dB/+12 dB)
- PWM regulated power supply with MOSFET switching

GM-3300T NEW

2-Channel Bridgeable Power Amplifier

300 W MAX.

LPF RCA INPUT SPEAKER INPUT

- 60 W x 2 (4 Ω)/150 W x 1 (4 Ω)/75 W x 2 (2 Ω) (continuous power)
- 120 W x 2 (4 Ω)/300 W x 1 (4 Ω) (max. power)

Common Features

- Bridgeable 1/2/3-channel capability
- LPF (80 Hz, -12 dB/oct.)
- High-voltage input level control (400 mV to 6.5 V)
- Input level/gain control
- Low load impedance capability (2 ohm to 8 ohm)
- RCA input terminals
- Screw-type speaker terminals
- Large screw-type power/ground terminals
- Speaker level input (1.6 V to 26 V)
- High-performance balanced isolator circuit
- Black heatsink with aluminum plate



GM-D510M

Class-D Mono Amplifier

1000 W MAX.

LPF RCA INPUT

- 300 W x 1 (4 Ω)/500 W x 1 (2 Ω) (continuous power)
- 600 W x 1 (4 Ω)/1 000 W x 1 (2 Ω) (max. power)
- Variable LPF (40 Hz to 240 Hz, -24 dB/oct.)
- High-voltage input level control (125 mV to 6.5V)
- Bass level control (-22 dB to +12 dB)

- Low load impedance capability (2 ohm to 8 ohm)
- RCA input terminals
- Large screw-type power/ground terminals
- PWM regulated power supply with MOSFET switching
- High-performance balanced isolator circuit
- High-efficiency MOSFET output section
- Aluminum die-cast heatsink

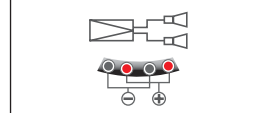
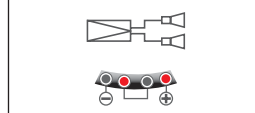
Caution: To avoid damaging your amplifier/subwoofer system, please make sure that the continuous power output of the amplifier is lower than the nominal power handling of the subwoofer.

Amplifier & Speaker Connection Chart

○: DVC parallel connection

●: DVC series connection

■: Single voice coil



Product No.	Amplifier			Subwoofer											
	Channel	Load Impedance	Power	TS-W307D2	TS-W307D4	TS-W257D2	TS-W257D4	TS-W3001D4	TS-W2501D4	TS-W307F	TS-W257F	TS-SW1241D	TS-SW1041D	TS-SW841D	TS-WX301
GM-6300F	4-ch.	4 Ω	60 W x 4	○	2 pc. ●	○	2 pc. ●	2 pc. ●	2 pc. ●	■	■	■	■	■	■
		2 Ω	75 W x 4	2 pc. ●	●	2 pc. ●	●	●	●	2 pc. Para.	2 pc. Para.	2 pc. Para.	2 pc. Para.	2 pc. Para.	2 pc. Para.
GM-4300F	4-ch.	4 Ω	40 W x 4	○	2 pc. ●	○	2 pc. ●	2 pc. ●	2 pc. ●	■	■	■	■	■	■
		2 Ω	50 W x 4	2 pc. ●	●	2 pc. ●	●	●	●	2 pc. Para.	2 pc. Para.	2 pc. Para.	2 pc. Para.	2 pc. Para.	2 pc. Para.
GM-5300T	2-ch.	4 Ω	100 W x 2	○	2 pc. ●	○	2 pc. ●	2 pc. ●	2 pc. ●	■	■	■	■	■	■
		2 Ω	190 W x 2	2 pc. ●	●	2 pc. ●	●	●	●	2 pc. Para.	2 pc. Para.	2 pc. Para.	2 pc. Para.	2 pc. Para.	2 pc. Para.
GM-3300T	2-ch.	4 Ω	60 W x 2	○	2 pc. ●	○	2 pc. ●	2 pc. ●	2 pc. ●	■	■	■	■	■	■
		2 Ω	75 W x 2	2 pc. ●	●	2 pc. ●	●	●	●	2 pc. Para.	2 pc. Para.	2 pc. Para.	2 pc. Para.	2 pc. Para.	2 pc. Para.
GM-7300M	1-ch.	4 Ω	150 W x 1	○	2 pc. ●	○	2 pc. ●	2 pc. ●	2 pc. ●	■	■	■	■	■	■
		2 Ω	360 W x 1	2 pc. ●	●	2 pc. ●	NA	●	●	2 pc. Para.	2 pc. Para.	2 pc. Para.	NA	NA	NA
PRS-D4100F	4-ch.	4 Ω	75 W x 4	○	2 pc. ●	○	2 pc. ●	2 pc. ●	2 pc. ●	■	■	■	■	■	■
		2 Ω	150 W x 4	2 pc. ●	●	2 pc. ●	●	●	●	2 pc. Para.	2 pc. Para.	2 pc. Para.	2 pc. Para.	2 pc. Para.	2 pc. Para.
PRS-D2100T	2-ch.	4 Ω	150 W x 2	○	2 pc. ●	○	2 pc. ●	2 pc. ●	2 pc. ●	■	■	■	■	■	■
		2 Ω	300 W x 2	2 pc. ●	●	2 pc. ●	●	●	●	2 pc. Para.	2 pc. Para.	2 pc. Para.	2 pc. Para.	NA	2 pc. Para.
PRS-D1100M	1-ch.	4 Ω	400 W x 1	NA	2 pc. ●	NA	2 pc. ●	2 pc. ●	2 pc. ●	■	■	■	■	■	■
		2 Ω	600 W x 1	NA	2 pc. ●	NA	2 pc. ●	NA	NA	2 pc. Para.	NA	2 pc. Para.	NA	NA	NA

2 pc. = 2-piece Para. = Parallel NA = Not available

DEEPEN THE DRAMA

The quest for new thresholds of listening intensity rarely reaches a wholly satisfying result. But Pioneer makes a habit of establishing new standards in the field. Case in point: Pioneer Champion Series subwoofers inherit the high-power handling technology of the sub that broke the 180 dB Sound Pressure Level barrier to win at the 2006 IASCA IdBL World Finals.

SPL champion edition

The pride of a winner takes world-leading DNA



- dB Drag Extreme SPL**
 - 2006 World Record in Ultimate 5+ (178.3 dB)
 - 2006 World Record in Ultimate 2 (178.4 dB)
 - 2006 Winner for Extreme Cup
- USACI**
 - 2006 World Record in Super Modify 5001 up (181.4 dB)
 - 2006 Part Wars Champion (181.5 dB)
 - 2006 Super Part Wars Champion (181.5 dB)
 - 2006 Bass Olympics Champion (181.3 dB)
 - 2006 B&K Champion (179.6 dB)
 - 2006 dB SPL Champion (188.4 dB)

IASCA & IDBL

- 2006 World Record in Ultimate 3 (180.3 dB)
- 2006 World Record in Ultimate 1 (177.2 dB)



TS-W8102SPL

Component SPL Subwoofers

TS-W8102SPL

38 cm (15") Component Competition-Level SPL Subwoofer

- 8000 W MAX.
- Massive triple-stack magnet assembly (11 kg; 3 700 g × 3/390 oz.; 8 lbs. 20 oz. × 3)

Common Features

- Composite IMPP cone using interlaced carbon fiber*
- Carbon cloth/foamed acrylic polymer/glass cloth 3-layer rigid dust cap
- Wide-roll, woven aramid fiber radial rubber surround*
- Overhung surround design*

- High-power handling ceramic-coated voice coil wire*
- Dual 76 mm (3"), high inductance, 6-layer, long voice coils (DVC) (2 × 2 Ω)
- Titanium voice coil bobbin
- Dual aramid damper with woven tinsel wire and damper ring
- Precision dual aramid dampers

- Huge back plate and extended pole yoke with vented pole
- Huge 30 mm (1.2") thick top plate
- ADMG (Aero-Dynamic Magnetic Gap) design
- Aluminum die-cast one-piece rigid basket with bottom hold design
- 8-gauge wire terminal

* Patent pending

TS-W5102SPL

30 cm (12") Component Competition-Level SPL Subwoofer

- 6000 W MAX.
- Massive triple-stack magnet assembly (9 kg; 3 000 g × 3/320 oz.; 6 lbs. 10 oz. × 3)

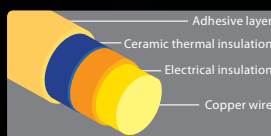
SPL (Sound Pressure Level) Subwoofer

TS-W8102SPL TS-W5102SPL

To generate resounding bass, the TS-W8102SPL and TS-W5102SPL subwoofers handle high-power input and extreme sound pressure levels with absolute assurance, thanks to design and construction durable enough to deliver consistently true, rock-steady performance, even at extra-high volume throughout marathon listening sessions.

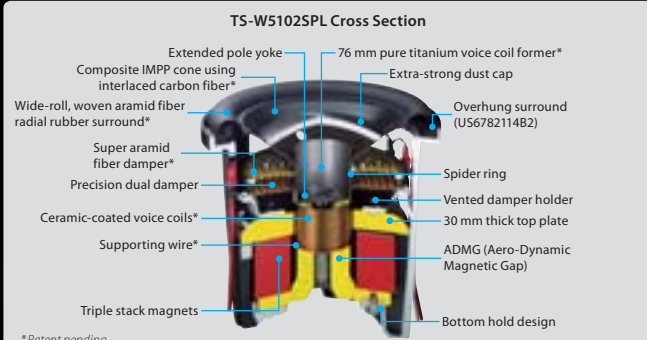
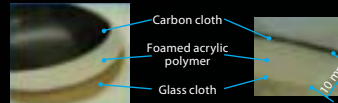
Dual Ceramic-Coated Voice Coils

Excess heat generated by subwoofers can compromise electrical-handling performance, but Pioneer uses ceramic-coated voice coil to double the capacity of its subwoofers to handle input power without short-circuiting. No wonder the Pioneer TS-W5102SPL beat the competition at 2005 and 2006 dB Drag Racing events.



Extra-Strong Dust Cap Core with Foamed Acrylic Polymer

Dust caps on the TS-W8102SPL and TS-W5102SPL subwoofers feature a light, durable heat-resistant foamed acrylic polymer core (between carbon-fiber and glass cloth layers) that is up to about 36 times as strong as conventional materials. The result: greater capacity for extra sound pressure, stability and power in bass reproduction.



* Patent pending

Champion series - PRO

The pride of a winner takes world-leading DNA



TS-W3001D4

30 cm (12") Component Subwoofer

- 3000 W MAX.
- Double stack high power magnets (3 110 g/110 oz.)
- Spoke grille compatible (UD-G307)



Common Features

- Composite IMPP cone using interlaced carbon fiber
- Wide-roll, 3-layer fiber woven aramid radial surround with honeycomb cloth
- Phenol coated glass cloth former

NEW

TS-W2501D4

25 cm (10") Component Subwoofer

- 2500 W MAX.
- Double stack high power magnets (2 400 g/85 oz.)
- Spoke grille compatible (UD-G257)



- Air suspension system
- Dual 4 Ω, 4-layer, long voice coil (2 Ω or 8 Ω)
- Extended and vented pole yoke
- Thick 24 mm (1") top plate

- Aluminum die-cast basket & magnet cover
- Integrated single-sided silver binding posts
- One piece, ABS silver gasket

NEW

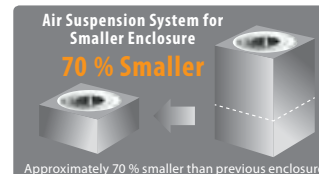
Caution: To avoid damaging your amplifier/subwoofer system, please make sure that the continuous power output of the amplifier is lower than the nominal power handling of the subwoofer.

Air Suspension System



TS-W3001D4 TS-W2501D4 TS-SW1241D TS-SW1041D TS-SW841D

For its revolutionary 3.25-inch-deep subwoofer, Pioneer created an air suspension system effective within a 70% smaller-than-previous enclosure that locks air for a spring-like effect between main and drive cones moving in unison. The result is consistently clear, powerful, wide-ranging bass response. The subwoofer's dual-cone structure maintains better sound linearity and reliability after hours of hard use than conventional subwoofers with "spider" structures to keep the voice coil aligned.



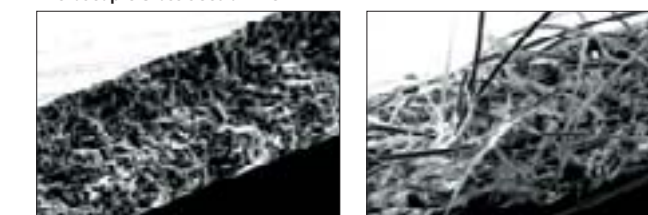
Carbon Fiber IMPP Cone



TS-W8102SPL TS-W5102SPL TS-W3001D4 TS-W2501D4

Preventing cone failure at high pressure levels requires an extremely rigid yet lightweight cone. So Pioneer developed a new patent-pending IMPP cone using a proprietary composite blend of long carbon fibers and injection molded polypropylene. These materials were chosen for their extraordinary strength and lightweight characteristics. The long carbon fibers interlace together to form an incredibly resilient fiber weave, providing strength and rigidity for powerful bass.

Microscopic Cross Section View



Regular IMPP cone

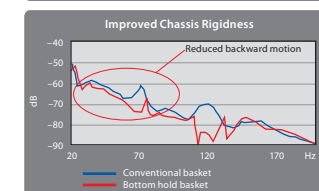
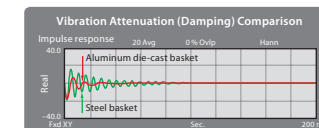
Long carbon fiber reinforced IMPP cone

Bottom Hold Design Aluminum Die-Cast One-Piece Chassis

TS-C171PRS TS-C131PRS TS-W8102SPL TS-W5102SPL

Although aluminum die-cast baskets have been around for many years, not all are created equal. Whereas other manufacturers purchase off-the-shelf designs, Pioneer's baskets were designed in-house, from scratch. Die-cast baskets also provide excellent damping characteristics, to attenuate vibration quickly and prevent distortion.

Unlike other manufacturers' designs, Pioneer's basket cradles the bottom plate and motor assembly. During high SPL levels there is a tremendous amount of pressure placed on the motor assembly. By supporting (cradling) the motor assembly any unwanted flexing or vibrations which can lead to energy loss are prevented.



Woven Aramid Fiber Radial Surround

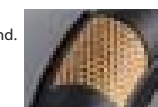
TS-W8102SPL TS-W5102SPL TS-W3001D4 TS-W2501D4

The TS-W8102SPL, TS-W5102SPL, TS-W3001D4 and TS-W2501D4 incorporate a patent-pending Woven Aramid Fiber Radial Surround which improves power handling and reduces distortion. Similar to a radial tire, the surround is constructed of three layers—two consisting of rubber and one of interwoven aramid fiber. The aramid fiber layer is designed with a "honeycomb" weave, which evenly distributes strength throughout the surround material, eliminating any weak points of surround and improving high-power capability. The result is an extremely durable and resilient surround that resists "puckering" (distortion often produced under extreme power conditions).

Benefits of Woven Aramid Fiber Radial Surround

- Improved power handling capability
- Reduced distortion (anti-puckering design)
- Improved linear excursion
- Louder, more accurate bass

The three layers are formed under a high-pressure, high-temperature process. The result: an extremely durable and high-performance surround.



Dual Voice Coil Type Subwoofers

TS-W307D2

30 cm (12") Component Subwoofer (2 Ω Dual Voice Coil Type)

1200 W MAX.

NEW

TS-W307D4

30 cm (12") Component Subwoofer (4 Ω Dual Voice Coil Type)

1200 W MAX.

NEW

Common Features

- Composite IMPP cone using interlaced aramid fiber
- 3-layer, fiber woven radial surround
- Single large conex damper with damper ring
- Dual 4-layer, long voice coils (DVC) (2 x 2 Ω: TS-W307D2/ 2 x 4 Ω: TS-W307D4)
- ø55 mm (2-3/16") phenol coated glass cloth voice coil former for higher power handling capabilities
- Double stack high power magnets (2.4 kg/83 oz.)
- Extended and vented pole yoke
- Integrated single-sided silver binding posts
- Spoke grille compatible (UD-G307)

TS-W257D2

25 cm (10") Component Subwoofer (2 Ω Dual Voice Coil Type)

1000 W MAX.

NEW

TS-W257D4

25 cm (10") Component Subwoofer (4 Ω Dual Voice Coil Type)

1000 W MAX.

NEW

Common Features

- Composite IMPP cone using interlaced aramid fiber
- 3-layer, fiber woven radial surround
- Single large conex damper with damper ring
- Dual 4-layer, long voice coils (DVC) (2 x 2 Ω: TS-W257D2/ 2 x 4 Ω: TS-W257D4)
- ø48 mm (2") phenol coated glass cloth voice coil former for higher power handling capabilities
- Double stack high power magnets (2.1 kg/74 oz.)
- Extended and vented pole yoke
- Integrated single-sided silver binding posts
- Spoke grille compatible (UD-G257)

Champion series

The pride of a winner takes world-leading DNA



TS-W307D2



TS-W257D2

Free-Air Type Subwoofers

TS-W307F

30 cm (12") Component Subwoofer (Free-Air Type)

900 W MAX. • Spoke grille compatible (UD-G307)
• 48 mm (2") aluminum voice coil former

NEW

TS-W257F

25 cm (10") Component Subwoofer (Free-Air Type)

700 W MAX. • Spoke grille compatible (UD-G257)
• 40 mm (1-1/2") aluminum voice coil former

NEW

Common Features

- Composite IMPP cone using interlaced aramid fiber
- 2-layer, copper round wire long voice coil
- Single conex damper with damper ring
- Dual-layer foam urethane surround
- Large magnet and high-power motor assembly
- Tall surround and large cone surface
- Extended excursion design
- Long voice coil design
- Extended and vented pole yoke
- Best tuned parameters



TS-W307F

TS-W257F

Component Subwoofers

TS-W301R

30 cm (12") Component Subwoofer

800 W MAX. • Spoke grille compatible (UD-G307)

TS-W251R

25 cm (10") Component Subwoofer

600 W MAX. • Spoke grille compatible (UD-G257)



TS-W301R

Common Features

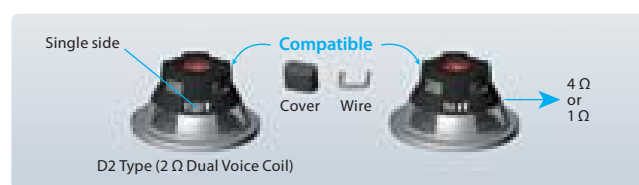
- Blue IMPP composite cone
- 4-layer, long voice coil
- Single nomex damper
- Extended excursion design
- Extended and vented pole yoke
- Best tuned parameters

Caution: To avoid damaging your amplifier/subwoofer system, please make sure that the continuous power output of the amplifier is lower than the nominal power handling of the subwoofer.

Integrated Single-Sided Silver Binding Posts

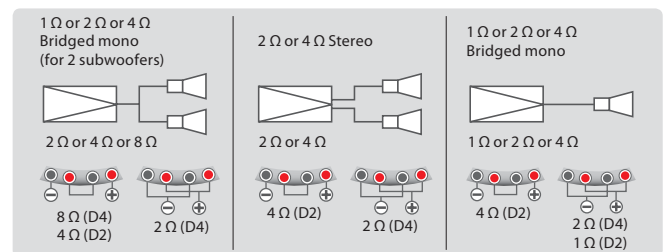
- TS-W3001D4
- TS-W2501D4
- TS-W307D2
- TS-W307D4
- TS-W257D2
- TS-W257D4

Incorporate 2 Ω Dual Voice Coil instead of 4 Ω SVC to expand connective application.



Connection & Wiring (for Dual Voice Coil Type Subwoofers)

- TS-W3001D4
- TS-W2501D4
- TS-W307D2
- TS-W307D4
- TS-W257D2
- TS-W257D4



UD-G307/UD-G257 Optional Spoke Grille

Pioneer optional spoke grilles protect cone surface and enhance appearance of the subwoofers.

• Spoke grille for the TS-W3001D4, TS-W2501D4, TS-W307D2, TS-W307D4, TS-W257D2, TS-W257D4, TS-W307F, TS-W257F, TS-W301R, TS-W251R and TS-W12PRS.



UD-G307 with TS-W307D2

Subwoofer Enclosures

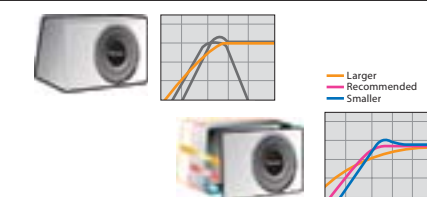
To have tighter control of bass power, an enclosure system is the perfect solution. Enclosure subwoofers are designed for use in a custom-designed sealed, vented or bandpass enclosure, the size of which is determined by specialized software. The bass response is tight, accurate,

controlled and consistent, since it's not affected by the volume of objects in the car boot. You can put together high-performance systems featuring superb low-frequency reproduction.

SEALED ENCLOSURES

From a purely musical standpoint, the sealed enclosure type is as popular as ever. This box type is capable of handling large amounts of power and, in turn, fairly high SPL levels "in car". Size always plays a key role in application and the sealed enclosure

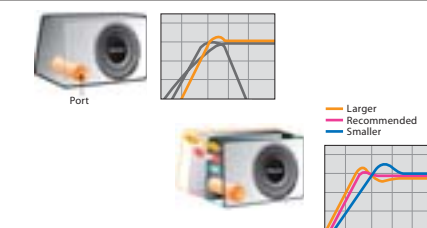
variety is excellent for small box applications. Power, however, is required to achieve above average SPL levels. From a purely engineering standpoint, the sealed box lends a "simpler is better" approach to subwoofer application.



VENTED ENCLOSURES (BASS REFLEX)

The vented enclosure variant is a balance between several factors. Most notable about vented boxes is the increase in box volume over the sealed variation. Because the vent is considered to be a secondary "output source", the deeper bass frequencies can be extended. While the distortion level above the tuning frequency is quite low, things can get pretty dirty if the enclosure is forced to play below this area.

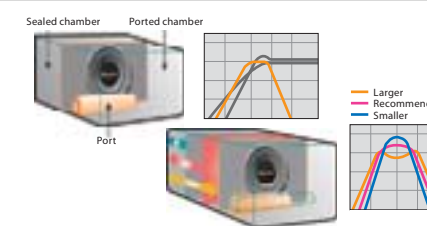
Efficiency and easily obtained lower frequencies would be the biggest benefits of this design. From a purely engineering standpoint, three key elements have to be in "sync" in order for the enclosure to work at its targeted area—box + speaker + vent. While more complex than the sealed variation, the vented enclosure has been a very popular approach to car audio low-frequency reproduction.



4TH-ORDER BAND PASS ENCLOSURES

The 4th-order band pass enclosure is basically a sealed enclosure with the addition of a ported enclosure in front of the driver, which acts as an acoustical filter. The resulting system radiates sound in a limited bandwidth. Band pass enclosures usually demonstrate a higher sensitivity compared to sealed enclosures. The disadvantage, however, is that it uses more trunk space. 4th-order band pass systems are a bit more flexible in design than sealed or bass reflex

enclosures, due to the ability to change many parts of the enclosure as front and back volume, as well as the port length. The benefit of this is that the frequency response as well as the sensitivity of the system can be defined more freely compared to sealed or bass reflex enclosures. Nevertheless, a very decent bass reproduction can be achieved with a well-tuned system.



Shallow-Type Subwoofers

TS-SW1241D

30 cm (12") Component Subwoofer

1400 W MAX.



TS-SW1041D

25 cm (10") Component Subwoofer

1000 W MAX.

TS-SW841D

20 cm (8") Component Subwoofer

500 W MAX.

- Common Features**
- Double-cone structure with air-suspension control system
 - Reinforced cone using C-shaped nodes structure
 - Composite IMPP double cone woofer using interlaced carbon and ultra long glass fiber
 - 3-layer fiber woven radial surround with M-shape cross-section
 - 4-layer, long voice coil
 - Glass cloth voice coil bobbin
 - High-energy strontium magnet
 - Aluminum dust cap
 - T-pole yoke design
 - Extended and vented pole yoke
 - Rubber gasket
 - Cast aluminum basket with fin-shaped design

Shallow-Type Subwoofers

TS-SW1241D TS-SW1041D TS-SW841D

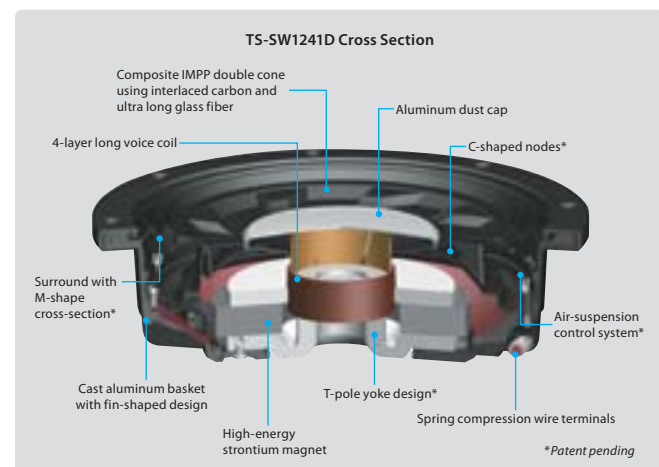
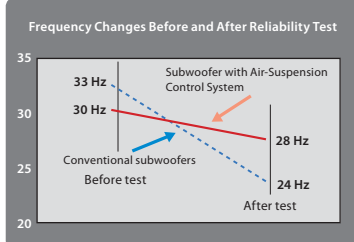
With enhanced maximum power and handling shallow dimensions, TS-SW subwoofers are more versatile than ever. The Full (30 cm) and Regular (25 cm) sizes can be installed behind and under seats, and the Compact (20 cm) size can even be mounted on rear sidewalls and trays of smaller cars.

The pressure of this air varies as the cones move back and forth, resulting in smoother, more precise linearity. The trapped air behaves like a spring, eliminating the need for a conventional spider structure, so the unit can be made shallow enough to fit in a tight space. Inside the enclosure, a drive cone deflects air pressure and a fin-shaped basket smoothly directs air sideways. This makes bass output remarkably stable, despite these units' compact size. The system also enhances durability, as the subwoofers are subjected to smaller frequency changes (and less wear and tear) than conventional subwoofers.

<p>Full-size</p> <p>30 cm (12")</p> <p>Full-size pickup trucks etc</p> <p>Behind seats Under seats</p> <p>Rear sidewall Rear tray</p>
<p>Regular</p> <p>25 cm (10")</p> <p>Standard-size pickup trucks etc</p>
<p>Compact</p> <p>20 cm (8")</p> <p>SUV Sedan Compact vehicles</p>

Air-Suspension Control System

Thanks to Pioneer's unique Air-Suspension Control System, TS-SW subwoofers offer deep, rich bass in a shallow, compact form. Air is trapped within the composite IMPP™ double cone, between the main cone and the drive cone behind it.



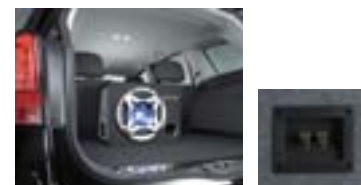
Component Enclosed Subwoofers

TS-WX301

30 cm Bass-Reflex Subwoofer

800 W MAX.

- Blue IMPP composite cone
- Bass-reflex design
- 37 liters wooden enclosure
- 4-layer, long voice coil
- Single nomex damper
- Extended excursion design
- Extended and vented pole yoke
- Best tuned parameters



TS-WX11A

13 cm x 21 cm Sealed Active Subwoofer

150 W MAX.*

- Built-in MOSFET 150 W max. monaural amplifier
- 13 cm x 21 cm aluminum and IMPP composite cone woofer with strontium magnet
- Wired remote control (input level, crossover frequency, phase)
- Speaker and RCA level inputs
- Built-in variable LPF (50 Hz to 125 Hz, -12 dB/oct.)
- Aluminum die-cast heatsink



TS-WX22A

20 cm Sealed Active Subwoofer

150 W MAX.*

- Built-in MOSFET 150 W max. monaural amplifier
- 20 cm IMPP composite cone woofer with strontium magnet
- Wired remote control (input level, crossover frequency, phase)
- Speaker and RCA level inputs
- Built-in variable LPF (50 Hz to 125 Hz, -12 dB/oct.)
- Aluminum die-cast heatsink



TS-WX206A

20 cm Bandpass Active Subwoofer

150 W MAX.*

- Built-in MOSFET 150 W max. monaural amplifier
- 20 cm IMPP composite cone woofer with strontium magnet
- Large dual port bandpass design for rich and powerful bass
- Speaker and RCA level inputs
- Input level control/phase switch
- Built-in variable LPF (50 Hz to 125 Hz, -12 dB/oct.)
- Aluminum die-cast heatsink



SPEAK THE TRUTH

The magic of wide-open sound coming from light, compact speakers is no mystery at Pioneer—always evolving, yet true to its origins as a speaker innovator. Smooth mid- to high-frequency transitions and midrange response, expansive soundstage, minimal distortion and incomparable expertise offer clues into our assurance of absolute output fidelity.



TS-D Series Speakers

OPEN & SMOOTH™

TS-D691S

6" x 9" 2-Way Speaker

350 W MAX.

KEVLAR

- 6" x 9" (16 cm x 24 cm) woofer/28 mm dome tweeter
- Top/bottom mount

TS-D161S

16 cm 2-Way Speaker

260 W MAX.

KEVLAR

- 16 cm woofer/28 mm dome tweeter

Common Features

- Dual-layer KEVLAR® Brand Fiber* with Rigilite™ IMPP composite cone woofer
- Single conex damper
- Copper ring
- Extended pole yoke design
- Butyl rubber surround for smoother response
- Glass-imide voice coil bobbin
- Lightweight balanced dome tweeter with neodymium magnet
- Wave guides for dispersion control
- Rear chamber for lower crossover frequency
- Built-in crossover network: LPF; -12 dB/oct. (for woofer)/HPF; -12 dB/oct. (for tweeter)
- Newly-designed full-depth basket boasting much higher compressive strength and better damping
- Full-depth basket for rich bass response

* DuPont and/or DU PONT-TORAY CO., LTD. produce KEVLAR® brand fiber. DuPont™ and KEVLAR® are trademarks and registered trademarks of DuPont or its affiliates and are used under license by Pioneer.

TS-E Series Speakers

OPEN & SMOOTH™

TS-E6996

6" x 9" 3-Way Speaker

360 W MAX.

KEVLAR

- 6" x 9" (16 cm x 24 cm) woofer/43 mm midrange/12 mm tweeter
- KEVLAR® Brand Fiber/pulp composite cone woofer
- Butyl rubber surround for smoother response
- Heat-resistant long voice coil
- Pure magnesium balanced dome midrange with neodymium magnet
- Dome tweeter
- Full-depth basket for longer excursion and richer bass

TS-E2096

20 cm 3-Way Speaker

360 W MAX.

KEVLAR

- 20 cm woofer/43 mm midrange/12 mm tweeter

TS-E1396

13 cm 3-Way Speaker

160 W MAX.

KEVLAR

- 13 cm woofer/25 mm midrange/10 mm tweeter

Common Features

- KEVLAR® Brand Fiber/pulp composite cone woofer
- Butyl rubber surround for smoother response
- Heat-resistant long voice coil
- Pure magnesium balanced dome midrange with neodymium magnet
- Dome tweeter
- Full-depth basket for longer excursion and richer bass



TS-E2096

TS-E1076

10 cm 2-Way Speaker

110 W MAX.

KEVLAR

- 10 cm woofer/25 mm tweeter
- KEVLAR® Brand Fiber/pulp composite cone woofer
- Butyl rubber surround for smoother response
- Heat-resistant long voice coil
- Pure magnesium balanced dome tweeter with neodymium magnet
- Round/Square compatible frame



TS-E1695

16 cm 3-Way Speaker

220 W MAX.

- 16 cm woofer/30 mm dome midrange/10 mm dome tweeter
- 3D magnesium hybrid cone woofer
- Pure titanium dome midrange with ultra-slim neodymium magnet and magnetic fluid
- Triangular butyl rubber surround for smoother response
- GM tabs for 16 cm/17 cm compatibility



Packaged Component Speaker Systems

TS-C160R

16 cm Packaged Component Speaker System

250 W MAX.

VCCS KEVLAR

- 16 cm woofer/25 mm soft-dome tweeter
- CCAW heat-resistant long voice coil
- Die-cast aluminum full-depth basket for rich bass response with removable GM tabs

TS-C130R

13 cm Packaged Component Speaker System

180 W MAX.

VCCS KEVLAR

- 13 cm woofer/25 mm soft-dome tweeter
- Heat-resistant long voice coil
- Die-cast aluminum basket



TS-C160R

TS-C160R/TS-C130R Tweeter Specifications
 • Dimensions (W x H x D): 42 mm x 38 mm x 41 mm (surface mount)
 • Mounting depth: 19.6 mm • Cut-out dimensions: ø41 mm

*See page 35 for woofer dimensions.

TS-C1653

16 cm Packaged Component Speaker System

150 W MAX.

INJECTION MOLDING CONE

- 16 cm woofer/23 mm tweeter
- 16 cm/GM 17 cm compatible frame

TS-C1353

13 cm Packaged Component Speaker System

150 W MAX.

INJECTION MOLDING CONE

- 13 cm woofer/23 mm tweeter
- Large-sized DIN frame



TS-C1653

TS-C1653/TS-C1353 Tweeter Specifications
 • Mounting depth: 18.6 mm • Cut-out dimensions: ø39 mm

*See page 35 for woofer dimensions.

TS-C1625

16 cm High-Grade Packaged Component Speaker System

220 W MAX.



- 16 cm woofer/27 mm tweeter
- 16 cm/GM 17 cm compatible frame
- 3D magnesium hybrid cone woofer with slitted bullet shape equalizer
- Pure titanium dome tweeter
- Triangular butyl rubber surround
- High-performance neodymium magnet (tweeter)
- Flush swivel mounting cup and slant spacer
- Outboard screw-type crossover (LPF/HPF: -12 dB/oct.)
- Tweeter level control (0 dB, -3 dB)

TS-C1625 Tweeter Specifications
 • Dimensions (W x H x D): 42 mm x 38 mm x 41 mm (surface mount) • Mounting depth: 20 mm
 • Cut-out dimensions: ø41 mm

*See page 35 for woofer dimensions.

TS-C1602

16 cm Packaged Component Speaker System

150 W MAX.

INJECTION MOLDING CONE

- 16 cm woofer/13 mm tweeter
- 2-way surface mounting capabilities (tweeter)

TS-C1002

10 cm Packaged Component Speaker System

150 W MAX.

INJECTION MOLDING CONE

- 10 cm midrange/13 mm tweeter



TS-C1602

- Common Features
- HR™ (Hydro-Resistant) cone woofer/midrange
- PEI (poly-ether imide) dome tweeter with magnetic fluid
- In-line passive crossover included (HPF, -12 dB/oct.)
- Aluminum short ring
- Flush and surface mounting capabilities (tweeter)

TS-C1602/TS-C1002 Tweeter Specifications
 • Dimensions (W x H x D): ø49 mm x 21 mm • Cut-out dimensions: ø37 mm

*See page 35 for woofer dimensions.

TS-A Series Speakers

OPEN & SMOOTH™



TS-A6992S

TS-A6982S

TS-A6992S

NEW

6" x 9" 5-Way Speaker

460 W MAX.



• 6" x 9" (16 cm x 24 cm) woofer/46 mm dome midrange/30 mm cone tweeter with neodymium magnet/11 mm dome supertweeter/9 mm dome supertweeter

Common Features

- Carbon graphite IMPP cone woofer using interlaced aramid fiber
- Butyl rubber surround for smoother response
- Glass-imide voice coil former for higher power handling capabilities

- Light weight copper clad aluminum voice coil design
- Light weight balanced dome midrange design with magnetic fluid

- Silver PET film dome supertweeter
- Full depth basket for longer excursion and richer bass

TS-A6982S

NEW

6" x 9" 4-Way Speaker

440 W MAX.



• 6" x 9" (16 cm x 24 cm) woofer/46 mm dome midrange/17 mm dome tweeter/11 mm dome supertweeter

TS-A6972E

NEW

Limited distribution

6" x 9" 3-Way Speaker

400 W MAX.



• Butyl rubber surround for smoother response
• PET cone midrange with urethane surround
• Full depth basket for longer excursion and richer bass

TS-A6962E

NEW

Limited distribution

6" x 9" 3-Way Speaker

300 W MAX.



• Cone midrange with urethane surround
• Shallow basket for installation versatility

Common Features

- 6" x 9" (16 cm x 24 cm) woofer/57 mm cone midrange/18 mm dome tweeter
- Carbon graphite IMPP cone woofer using interlaced aramid fiber
- Glass-imide voice coil former for higher power handling capabilities
- Silver PET film dome tweeter

TS-A6972S

6" x 9" 3-Way Speaker

300 W MAX.



• 6" x 9" (16 cm x 24 cm) woofer/46 mm dome midrange/17 mm dome tweeter
• Light weight balanced dome midrange design with magnetic fluid

NEW

Limited distribution



TS-A6972S

TS-A6962S

Common Features

- Carbon graphite IMPP cone woofer using interlaced aramid fiber
- Foamed rubber coated cloth surround
- Glass-imide voice coil former for higher power handling capabilities
- Silver PET film dome supertweeter
- Shallow basket for installation versatility

TS-A6962S

6" x 9" 3-Way Speaker

250 W MAX.



• 6" x 9" (16 cm x 24 cm) woofer/57 mm cone midrange/17 mm dome tweeter

NEW

Limited distribution

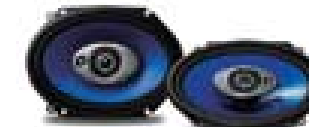
TS-A6871R

6" x 8" 3-Way Speaker

240 W MAX.



• 6" x 8" (16 cm x 20 cm) composite IMPP cone woofer using interlaced aramid fiber
• Glass-imide voice coil bobbin
• 40 mm lightweight balanced dome midrange with neodymium magnet
• 10 mm silver PET film dome tweeter
• Shallow-depth basket for installation versatility



TS-A1682S

16 cm 4-Way Speaker

280 W MAX.



• 16 cm woofer/38 mm dome midrange/11 mm dome tweeter/9 mm dome tweeter
• Full depth basket for longer excursion and richer bass

NEW



TS-A1682S

TS-A1672S

Common Features

- Carbon graphite IMPP cone woofer using interlaced aramid fiber
- Butyl rubber surround for smoother response
- Glass-imide voice coil former for higher power handling capabilities
- Silver PET film dome supertweeter

TS-A1672S

16 cm 3-Way Speaker

220 W MAX.



• 16 cm woofer/33 mm dome midrange/11 mm dome tweeter
• Shallow basket for installation versatility

NEW

TS-A2511

25 cm 3-Way Speaker

400 W MAX.



• 25 cm woofer/66 mm cone midrange/18 mm dome tweeter



TS-A2511

TS-A2011

Common Features

- Composite IMPP cone woofer using interlaced aramid fiber
- Butyl rubber surround for smoother response
- Glass-imide voice coil bobbin for higher power handling capabilities
- PET film cone midrange with magnetic fluid
- PET film dome tweeter

TS-A2011

20 cm 3-Way Speaker

350 W MAX.



• 20 cm woofer/66 mm cone midrange/18 mm dome tweeter

TS-A4672R

4" x 6" 3-Way Speaker

150 W MAX.



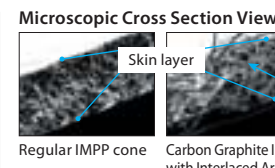
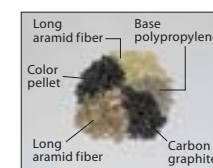
• 4" x 6" (10 cm x 16 cm) woofer/23 mm dome midrange with neodymium magnet/10 mm dome tweeter
• Carbon graphite IMPP cone woofer using interlaced aramid fiber
• Foamed rubber coated cloth surround
• Glass-imide voice coil former for higher power handling capabilities
• Light weight balanced dome midrange design with magnetic fluid
• Custom-fit US/European compatible basket design

NEW



Composite IMPP Cone with Interlaced Aramid Fiber

- TS-W307D2
- TS-W307D4
- TS-W257D2
- TS-W257D4
- TS-W307F
- TS-W257F
- TS-A6992S
- TS-A6982S
- TS-A6972E
- TS-A6962E
- TS-A6972S
- TS-A6962S
- TS-A6871R
- TS-A1682S
- TS-A1672S
- TS-A2511
- TS-A2011
- TS-A4672R



With long aramid fibers interlacing together inside, this IMPP cone design provides the strength and rigidity that powerful bass sound requires. High-density compressed internal architecture is resilient, stacks up against high power well and transfers sound quickly. The result is full-bodied, rich sound character with midrange depth that conventional IMPP cones cannot match.



Composite IMPP Cone with Interlaced Aramid Fiber

TS-G Series Speakers

TS-G1641R

16 cm 2-Way Speaker

160 W MAX.



• 30 mm PEI (poly-ether imide) balanced dome tweeter

Common Features

- 16 cm metallic silver IMPP composite cone woofer
- Shallow basket design for installation versatility

TS-G1611R

16 cm Dual-Cone Speaker

160 W MAX.



- Increased installation versatility with extra tabs (16 cm/GM 17 cm compatibility)



TS-G1641R

TS-G1341R

13 cm 2-Way Speaker

130 W MAX.



• 30 mm PEI (poly-ether imide) balanced dome tweeter

Common Features

- 13 cm metallic silver IMPP composite cone woofer

TS-G1311R

13 cm Dual-Cone Speaker

130 W MAX.



- Shallow basket design for installation versatility
- Renault/DIN compatible basket



TS-G1341R

TS-G1041R

10 cm 2-Way Speaker

110 W MAX.



• 30 mm PEI (poly-ether imide) balanced dome tweeter

Common Features

- 10 cm metallic silver IMPP composite cone woofer

TS-G1011R

10 cm Dual-Cone Speaker

110 W MAX.



- 4-/2-hole compatibility (removable screw holes)



TS-G1041R

TS-G4641R

4" x 6" 2-Way Speaker

100 W MAX.



- 4" x 6" (10 cm x 16 cm) metallic silver IMPP composite cone woofer
- 30 mm PEI (poly-ether imide) balanced dome tweeter
- New custom-fit US/European compatible basket design



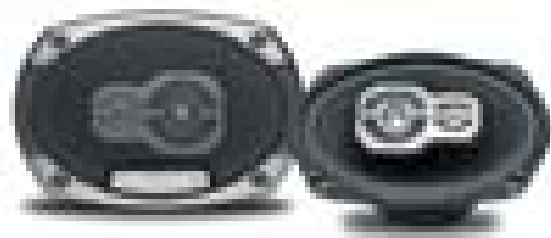
High-Power Series Speaker

TS-6975

6" x 9" 3-Way High-Power Speaker

300 W MAX.

HIGH-POWER



- 6" x 9" (16 cm x 24 cm) rigid oven cone woofer
- 57 mm PI cone midrange
- 32 mm PEI (poly-ether imide) balanced dome tweeter with magnetic fluid

Cross-Axial Speaker

TS-2150

20 cm Cross-Axial 3-Way Speaker

200 W MAX.



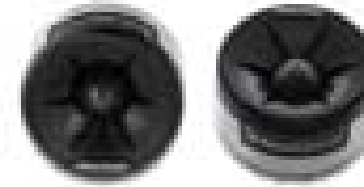
- 20 cm IMPP composite cone woofer/25 mm titanium dome midrange/20 mm ceramic up-dome tweeter
- Cross-Axial engineering for excellent sound quality

Component Tweeters

TS-S250

40 mm High-Power Tune-Up Tweeter

250 W MAX.



- 40 mm ceramic horn tweeter design
- High-power handling of 250 W max.
- High sensitivity: 97 dB/W
- Built-in -6 dB/oct. capacitor
- Large Pioneer logo on side surface

TS-T110

22 mm Component Hard-Dome Tweeter

120 W MAX.



- 22 mm PPTA balanced dome tweeter
- High-performance strontium magnet
- Flush and surface mounting capabilities
- Plastic mounting cup for flush mounting
- Heat-resistant voice coil with magnetic fluid
- In-line 6 dB/oct. capacitor for tweeter protection

TS-S20

20 mm Component Hard-Dome Tweeter

200 W MAX.



- 20 mm amorphous-titanium-coated PPS (polyphenylene sulfide)-dome tweeter
- High-performance strontium magnet
- Built-in LC network: attached at end of speaker cable

TS-T15

20 mm Component Soft-Dome Tweeter

120 W MAX.



- 20 mm soft-dome tweeter
- Styrene rubber coated polyester soft-dome diaphragm for extremely smooth sound quality
- High-performance ultra-slim neodymium magnet
- 2-way surface mounting capabilities
- Slant spacer for surface mounting
- Twist-type mounting plate
- Heat-resistant voice coil with magnetic fluid

A/V Center Speaker

TS-CX900

2-Way A/V Center Speaker

80 W MAX.



- 66 mm KEVLAR® Brand Fiber composite cone woofer
- 25 mm balanced dome tweeter with neodymium magnet
- Butyl rubber surround
- Compact aerodynamic cabinet design
- Double neodymium magnet assembly with magnetically shielded circuit design

Satellite Speaker

TS-STX99

Satellite Speaker

80 W MAX.



- 5.7 cm KEVLAR® Brand Fiber composite cone full-range speaker
- Butyl rubber surround for smoother response



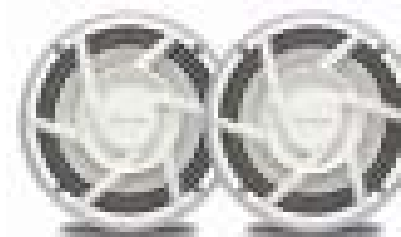
- Large-diameter voice coil with neodymium magnet

Marine Speakers

TS-MR2040

20 cm 2-Way Marine Speaker

200 W MAX.

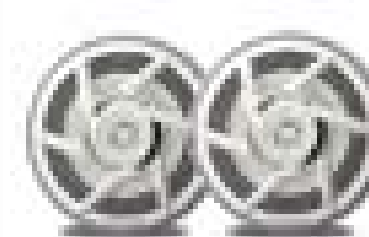


- 20 cm water-resistant IMPP cone woofer
- 20 cm glass fiber reinforced plastic deep basket

TS-MR1640

16 cm 2-Way Marine Speaker

160 W MAX.



- 16 cm water-resistant IMPP cone woofer
- 16 cm glass fiber reinforced plastic deep basket

TS-MR1600

16 cm Dual-Cone Marine Speaker

100 W MAX.



- 16 cm water-resistant IMPP dual-cone speaker
- 16 cm glass fiber reinforced plastic deep basket

Common Features

- Waterproof elastomer surround
- Conex damper with elastomer water guard
- Gold-plated tinsel wire and terminals
- High-quality UV and corrosion-resistant design
- Stainless steel mounting hardware

Power Amplifier Features Comparison

	GM-7300M	GM-6300F	GM-5300T	GM-4300F	GM-3300T	GM-D510M	RS-A9	RS-A7	PRS-D2000SPL	PRS-D1200SPL	PRS-D4100F	PRS-D2100T	PRS-D1100M	PRS-A500
Bridgeable 2/3/4-channel capability <F = Class-FD>														
Bridgeable 1/2/3-channel capability <F = Class-FD>														
Mono amplifier <D = Class-D>							D			D	D			F
Current feedback amplifier														
L/R independent power supply														
Full balanced system (bridgeable connection)														
High-performance 32-bit floating binary point type DSP														
Built-in DSP (Digital Signal Processor) (FIR)														
Multi 24-bit Burr Brown D/A Converters														
Variable LPF/HPF (40 Hz to 500 Hz, -12 dB/oct.)														
Variable LPF/HPF (40 Hz to 120 Hz, -12 dB/oct.)														
Variable LPF (40 Hz to 240 Hz, -24 dB/oct.)														
Variable LPF (40 Hz to 240 Hz, -18 dB/oct.)														
Variable LPF (40 Hz to 240 Hz, -12 dB/oct.)														
LPF/HPF (80 Hz, -12 dB/oct.) for A and B channels														
LPF (80 Hz, -12 dB/oct.)														
Input level control (400 mV to 6.5 V)														
Input level control (200 mV to 6.5 V)														
Input level control (125 mV to 6.5 V)														
Low level control (-22 dB to +12 dB)														
Low load impedance capability (4 ohm, 2 ohm to 8 ohm allowable)														
Low load impedance capability (1 ohm to 8 ohm)														
Optical digital input														
3 optical digital outputs (mid/low/subwoofer)														
IP-Bus input/output														
RCA input and output terminals <G = Gold-plated>														
RCA input terminals <G = Gold-plated>														
Screw-type speaker terminals <G = Gold-plated>														
Large block-type gold-plated speaker terminals														
Large screw-type power/ground terminals <G = Gold-plated>														
Large block-type gold-plated power/ground terminals														
Speaker level input (1.6 V to 26 V)														
Speaker line input turn-on sensor														
Variable Bass Boost (40 Hz to 120 Hz, 0 dB to +12 dB) <R = Remote>														
Bass Boost (50 Hz, 0 dB/+6 dB/+9 dB/+12 dB) <R = Remote>														
Subsonic filter (20 Hz, -24 dB/oct.)														
Subsonic filter (20 Hz, -18 dB/oct.)														
SYNC control														
PWM regulated power supply with MOSFET switching														
High-performance balanced isolator circuit														
High-efficiency MOSFET output section														
MASS (Multiple Amplifier Synchronization System)														
Sound master clock														
DAC volume														
All terminals placed on one side														
Removable terminal/settings cover														
Copper-plated chassis														
Black heatsink with aluminum plate														
Aluminum die-cast heatsink														

(1) Output for A-channel (2) Carved gold-plated (3) 4-gauge (4) 0/1-gauge (5) Bass Boost level: 0 dB/+6 dB/+12 dB only (6) Input circuit

Power Amplifier Specifications

	GM-7300M	GM-6300F	GM-5300T	GM-4300F	GM-3300T	GM-D510M	RS-A9	RS-A7	PRS-D2000SPL	PRS-D1200SPL	PRS-D4100F	PRS-D2100T	PRS-D1100M	PRS-A500	
Max. power output [14.4 V]	4-channel mode 120 W x 4 (4 Ω) 2-channel mode 300 W x 2 (4 Ω) 1-channel mode 500 W x 1 (4 Ω) 800 W x 1 (2 Ω)	120 W x 4 (4 Ω) 300 W x 2 (4 Ω) 760 W x 1 (4 Ω)	250 W x 2 (4 Ω) 760 W x 1 (4 Ω)	200 W x 2 (4 Ω) 760 W x 1 (4 Ω)	120 W x 2 (4 Ω) 300 W x 1 (4 Ω) 1000 W x 1 (2 Ω)	600 W x 1 (4 Ω) 1000 W x 1 (2 Ω)	100 W x 4 (4 Ω) 300 W x 2 (4 Ω)	100 W x 4 (4 Ω) 300 W x 2 (4 Ω)	1500 W x 1 (4 Ω) 3000 W x 1 (2 Ω) 4000 W x 1 (1 Ω)	1000 W x 1 (4 Ω) 2000 W x 1 (2 Ω) 2400 W x 1 (1 Ω)	600 W x 2 (4 Ω)	1200 W x 1 (4 Ω)	800 W x 1 (4 Ω) 1200 W x 1 (2 Ω) 1200 W x 1 (1 Ω)	600 W x 1 (4 Ω)	200 W x 2 (4 Ω)
Continuous power output [14.4 V]	4-channel mode 60 W x 4 (4 Ω) 75 W x 4 (2 Ω) 2-channel mode 150 W x 2 (4 Ω) 125 W x 2 (4 Ω) 190 W x 2 (2 Ω) 1-channel mode 250 W x 1 (4 Ω) 360 W x 1 (2 Ω)	60 W x 4 (4 Ω) 75 W x 4 (2 Ω) 150 W x 2 (4 Ω) 125 W x 2 (4 Ω) 190 W x 2 (2 Ω)	40 W x 4 (4 Ω) 75 W x 4 (2 Ω)	40 W x 4 (4 Ω) 75 W x 4 (2 Ω)	50 W x 4 (4 Ω) 75 W x 4 (2 Ω) 150 W x 2 (4 Ω) 150 W x 1 (4 Ω) 500 W x 1 (2 Ω)	50 W x 4 (4 Ω) 75 W x 4 (2 Ω) 150 W x 2 (4 Ω) 300 W x 1 (4 Ω) 500 W x 1 (2 Ω)	50 W x 4 (4 Ω) 75 W x 4 (2 Ω) 150 W x 2 (4 Ω) 300 W x 1 (4 Ω) 500 W x 1 (2 Ω)	50 W x 4 (4 Ω) 75 W x 4 (2 Ω) 150 W x 2 (4 Ω) 300 W x 1 (4 Ω) 500 W x 1 (2 Ω)	1500 W x 1 (4 Ω) 3000 W x 1 (2 Ω) 4000 W x 1 (1 Ω)	1000 W x 1 (4 Ω) 2000 W x 1 (2 Ω) 2400 W x 1 (1 Ω)	150 W x 2 (4 Ω) 300 W x 2 (2 Ω)	1200 W x 1 (4 Ω)	800 W x 1 (4 Ω) 1200 W x 1 (2 Ω) 1200 W x 1 (1 Ω)	600 W x 1 (4 Ω)	200 W x 2 (4 Ω)
Frequency response	+0 dB, -1 dB +0 dB, -3 dB +0.5 dB, -3 dB	10 to 50,000 Hz	10 to 50,000 Hz	10 to 50,000 Hz	10 to 50,000 Hz	10 to 50,000 Hz	10 to 100,000 Hz	10 to 100,000 Hz	10 to 240 Hz	10 to 240 Hz	10 to 50,000 Hz	10 to 50,000 Hz	10 to 50,000 Hz	10 to 240 Hz	10 to 80,000 Hz
Total harmonic distortion	%	0.03	0.01	0.015	0.01	0.008	0.03	0.002	0.002	0.3	0.3	0.005	0.005	0.5	0.003
S/N ratio [IEC-A network]	dB	100	95	95	95	100	95	105	105	80	80	100	100	92	107
Dimensions (W x H x D)	mm	300 x 60 x 334	300 x 60 x 334	300 x 60 x 334	300 x 60 x 269	300 x 60 x 194	268 x 52 x 250	585 x 330 x 71	585 x 330 x 71	586 x 282 x 65	381 x 282 x 65	304 x 56 x 195	304 x 56 x 195	304 x 56 x 195	300 x 63 x 330

*Hi-current mode

Accessories

<p>CD-UB100 NEW</p> <p>IP-Bus USB Adapter</p> 	<p>CD-I200 NEW</p> <p>Interface Cable for iPod*</p> 	<p>CD-IU50 NEW</p> <p>Interface Cable for iPod* (for DEH-P7950U0)</p> 	<p>CD-IB100 II</p> <p>iPod* Adapter</p> 	<p>CD-HF1</p> <p>Hands-Free Kit *Not available for CDMA system</p> 	<p>CD-IP150</p> <p>Optional IP-Bus Extension Cable</p> 	<p>CD-P75FM</p> <p>Universal Add-on FM Modulated Controller with Wireless Remote Controller</p> 
<p>CD-R310</p> <p>Optional Remote Controller for DEH Series Head Units</p> 	<p>CD-R30-02</p> <p>Optional Remote Controller for KEH-P4025</p> 	<p>CD-SR100</p> <p>Steering Remote Controller</p> 	<p>CD-RB10</p> <p>RCA Bus Interconnector</p> 	<p>CD-RB20</p> <p>RCA Bus Interconnector</p> 	<p>JD-12125</p> <p>Multi-Disc Magazine for CDX-P1280 and CDX-FM1287</p> 	<p>JD-612V</p> <p>Multi-Disc Magazine for CDX-P680 and CDX-FM687</p> 
<p>RD-221</p> <p>Power Supply Wiring Kit</p> 	<p>RD-223</p> <p>Optional Wiring Kit</p> 	<p>RD-983</p> <p>Alternator Noise Suppressor</p> 	<p>RD-984</p> <p>Alternator Noise Suppressor</p> 	<p>RD-985</p> <p>In-Line RCA Noise Suppressor</p> 	<p>RD-SR520</p> <p>High-Power Speaker Output to RCA Adapter</p> 	

Subwoofers & Speakers Specifications

	Size	Max. Input	Nominal Input	Frequency Response	Sensitivity	Impedance	Dimensions (W x H x D)	Mounting Depth	Cut-Out Dimensions
TS-W01RS	25 cm	300 W	150 W	20 Hz to 3 000 Hz	86 dB	4 Ω	ø276 mm x 94 mm	75 mm	ø238 mm
TS-M01RS	17 cm	120 W	50 W	35 Hz to 11 000 Hz	89 dB	4 Ω	ø174 mm x 75 mm	69 mm	ø151 mm
TS-S01RS	7.7 cm	50 W ⁽¹⁾ 60 W ⁽²⁾	15 W	70 Hz to 24 000 Hz ⁽¹⁾ 160 Hz to 24 000 Hz ⁽²⁾	86 dB	4 Ω	ø90 mm x 42.5 mm ⁽¹⁾ ø90 mm x 67 mm ⁽²⁾	37.5 mm ⁽¹⁾ 60 mm ⁽²⁾	ø72.5 mm ⁽¹⁾ ø77 mm ⁽²⁾
TS-T01RS	3.5 cm	120 W	50 W	1 200 Hz to 48 000 Hz	95 dB	6 Ω	ø68 mm x 64 mm	46 mm	ø68 mm
TS-W12PRS	30 cm	1 200 W	300 W	15 Hz to 2 000 Hz	92 dB	2 Ω or 8 Ω	ø322 mm x 152 mm	133 mm	ø278 mm
TS-M171PRS	17 cm	200 W	50 W	25 Hz to 9 000 Hz	88 dB	4 Ω	ø156 mm x 78 mm	67 mm	ø158 mm
TS-S101PRS	10 cm	60 W	15 W	60 Hz to 30 000 Hz	86 dB	4 Ω	ø110 mm x 52 mm	46 mm	ø90 mm
TS-T031PRS	28 mm	200 W	50 W	1 200 Hz to 32 000 Hz	90 dB	4 Ω	ø55 mm x 27.1 mm	12.2 mm	ø47 mm
TS-C171PRS	17 cm	200 W	50 W	25 Hz to 32 000 Hz	88 dB	4 Ω	ø156 mm x 78 mm	67 mm	ø140 mm
TS-C131PRS	13 cm	150 W	30 W	35 Hz to 32 000 Hz	88 dB	4 Ω	ø129 mm x 67 mm	57.3 mm	ø121 mm
TS-W8102SPL	38 cm	8 000 W	3 000 W	15 Hz to 1 500 Hz	91 dB	1 Ω or 4 Ω	ø400 mm x 359.5 mm	312 mm	ø352 mm
TS-W5102SPL	30 cm	6 000 W	2 500 W	18 Hz to 2 000 Hz	88 dB	1 Ω or 4 Ω	ø327 mm x 304 mm	266 mm	ø278 mm
TS-W3001D4	30 cm	3 000 W	1 000 W	18 Hz to 700 Hz	89 dB	2 Ω or 8 Ω	ø329 mm x 214.2 mm	188.8 mm	ø278 mm
TS-W2501D4	25 cm	2 500 W	800 W	18 Hz to 1 000 Hz	87 dB	2 Ω or 8 Ω	ø283.1 mm x 192.6 mm	169.2 mm	ø238 mm
TS-W307D2	30 cm	1 200 W	400 W	18 Hz to 500 Hz	89 dB	2 Ω DVC	ø327 mm x 172 mm	153 mm	ø278 mm
TS-W307D4	30 cm	1 200 W	400 W	18 Hz to 500 Hz	89 dB	4 Ω DVC	ø327 mm x 172 mm	153 mm	ø278 mm
TS-W257D2	25 cm	1 000 W	350 W	18 Hz to 600 Hz	87 dB	2 Ω DVC	ø277 mm x 162 mm	143 mm	ø238 mm
TS-W257D4	25 cm	1 000 W	350 W	18 Hz to 600 Hz	87 dB	4 Ω DVC	ø277 mm x 162 mm	143 mm	ø238 mm
TS-W307F	30 cm	900 W	300 W	20 Hz to 1 500 Hz	94 dB	4 Ω	ø327 mm x 162 mm	143 mm	ø278 mm
TS-W257F	25 cm	700 W	250 W	20 Hz to 2 000 Hz	92 dB	4 Ω	ø277 mm x 150 mm	131 mm	ø238 mm
TS-W301R	30 cm	800 W	150 W	20 Hz to 4 000 Hz	84 dB	4 Ω	ø327 mm x 164 mm	145 mm	ø278 mm
TS-W251R	25 cm	600 W	120 W	20 Hz to 4 500 Hz	83.5 dB	4 Ω	ø277 mm x 154 mm	135 mm	ø238 mm
TS-SW1241D	30 cm	1 400 W	350 W	18 Hz to 1 000 Hz	88 dB	4 Ω	ø329.0 mm x 97.9 mm	82.9 mm	ø278 mm
TS-SW1041D	25 cm	1 000 W	250 W	20 Hz to 1 000 Hz	87 dB	4 Ω	ø282.0 mm x 89.6 mm	75.6 mm	ø238 mm
TS-SW841D	20 cm	500 W	120 W	30 Hz to 1 500 Hz	85 dB	4 Ω	ø218.4 mm x 75.2 mm	63.5 mm	ø186 mm
TS-WX301	30 cm								