

Pioneer

TS-A120D4 TS-A100D4

1500W_{MAX.}/NOM.500W
1300W_{MAX.}/NOM.400W

CAR-USE COMPONENT SUBWOOFER HP D'EXTREME-GRAVE AUTOMOBILE SUBWOOFER PARA AUTOMÓVIL

Be sure to read this instruction manual before installing this speaker.

Prière de lire obligatoirement ce manuel d'installation avant de monter les haut-parleurs.

Antes de instalar el altavoz es importante que lea estas instrucciones.

⚠ WARNING

The Safety of Your Ears is in Your Hands

Get the most out of your equipment by playing it at a safe level - a level that lets the sound come through clearly without annoying blaring or distortion and, most importantly, without affecting your sensitive hearing. Sound can be deceiving. Over time, your hearing "comfort level" adapts to higher volumes of sound, so what sounds "normal" can actually be loud and harmful to your hearing. Guard against this by setting your equipment at a safe level BEFORE your hearing adapts.

ESTABLISH A SAFE LEVEL:

- Set your volume control at a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly, without distortion.
- Once you have established a comfortable sound level, set the dial and leave it there.

BE SURE TO OBSERVE THE FOLLOWING GUIDELINES:

- Do not turn up the volume so high that you can't hear what's around you.
- Use caution or temporarily discontinue use in potentially hazardous situations.
- Do not use headphones while operating a motorized vehicle ; the use of headphones may create a traffic hazard and is illegal in many areas.

⚠ AVERTISSEMENT

La protection de votre ouïe est entre vos mains

Pour assurer le rendement optimal de votre matériel et - plus important encore - la protection de votre ouïe, réglez le volume à un niveau raisonnable. Pour ne pas altérer votre sens de la perception, le son doit être clair mais ne produire aucun vacarme et être exempt de toute distorsion. Votre ouïe peut vous jouer des tours.

Avec le temps, votre système auditif peut en effet s'adapter à des volumes supérieurs, et ce qui vous semble un «niveau de confort normal» pourrait au contraire être excessif et contribuer à endommager votre ouïe de façon permanente. Le réglage de votre matériel à un volume sécuritaire AVANT que votre ouïe s'adapte vous permettra de mieux vous protéger.

CHOISISSEZ UN VOLUME SÉCURITAIRE:

- Réglez d'abord le volume à un niveau inférieur.
- Montez progressivement le volume jusqu'à un niveau d'écoute confortable ; le son doit être clair et exempt de distorsions.
- Une fois que le son est à un niveau confortable, ne touchez plus au bouton du volume.

N'OUBLIEZ PAS DE RESPECTER LES DIRECTIVES SUIVANTES:

- Lorsque vous montez le volume, assurez-vous de pouvoir quand même entendre ce qui se passe autour de vous.
- Faites très attention ou cessez temporairement l'utilisation dans les situations pouvant s'avérer dangereuses.
- N'utilisez pas des écouteurs ou un casque d'écoute lorsque vous opérez un véhicule motorisé ; une telle utilisation peut créer des dangers sur la route et est illégale à de nombreux endroits.

⚠ WARNING

The sealed enclosure series subwoofers are capable of reproducing music at extremely loud levels. Caution should be exercised to prevent permanent hearing loss. Additionally, driving with the system at high volume levels could impair your ability to hear emergency vehicles.

⚠ AVERTISSEMENT

Les "subwoofers" série enceinte fermé sont capables de reproduire la musique à des niveaux extrêmement hauts. Des précautions doivent être prises afin d'éviter un risque de détruire le système auditif des passagers. En outre, en conduisant avec le système à un haut niveau de volume, vous risquez de ne pas entendre les véhicules de secours.

⚠ ADVERTENCIA

La serie de compartimiento sellado de subwoofers es capaz de reproducir música a niveles extremadamente altos. Se debe tener cuidado para evitar la pérdida de audición permanente. Adicionalmente, el conducir con el sistema a altos niveles de volumen puede interferir con su capacidad para escuchar los vehículos de emergencia.

⚠ CAUTION

- To prevent damage to your speakers please observe the following caution.
- At high volume levels if the music sounds distorted or additional sounds are perceived lower the volume.
- PIONEER recommends that this speaker be used in conjunction with amplifiers whose continuous (RMS) output is lower than the nominal input power of this speaker.
- Since this speaker is continuously used being turned on full blast, temperature of the magnetic circuit rises, avoid touching it directly by hand and placing something near it. If it is heated, it may cause a burn, deformation of or damage to peripheral things.
- Never connect only one voice coil of this Dual Voice Coil (DVC) speaker.
- Both voice coils must be connected to the amplifier for correct operation.
- If this product is used in free-air conditions (without an enclosure), insufficient damping causes the sound without accuracy and reduces the power handling capability to 1/4 of its usual levels. It may result in permanent damage to the product.

⚠ ATTENTION

- Afin d'éviter d'endommager les haut-parleurs, observer les précautions suivantes.
- Si la musique semble déformée ou si des parasites sont perçus à volume élevé, baisser le volume.
- Afin d'éviter d'abîmer le haut-parleur avec une amplification élevée, PIONEER recommande d'utiliser des amplificateurs dont le niveau de puissance continue (RMS) est inférieure à la puissance nominale du haut-parleur.
- Quand ce haut-parleur est utilisé de façon continue à plein volume, la température de ses circuits magnétiques s'élève, évitez donc de le toucher directement de la main ou de placer des objets à proximité. S'il est chaud, il pourrait occasionner des brûlures, une déformation ou des dégâts sur des objets voisins.
- Ne jamais connecter une seule bobine mobile de ce haut-parleur de Double Bobine Mobile (DVC).
- Les deux bobines doivent être connectées sur l'amplificateur afin d'assurer un fonctionnement correct.
- Ce type de haut-parleurs est prévu de fonctionner uniquement en clos (caisson), en raison de sa suspension spécifique. Sinon la qualité sonore sera affectée et sa puissance réduite de trois quarts en pression acoustique (SPL). Si la conditionci-dessus n'est pas prise en compte le haut-parleur pourrait subir des dégâts non réversibles.

⚠ PRECAUCION

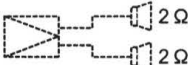
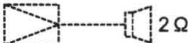
- Para evitar avería de sus altavoces, sírvase observar las siguientes precauciones.
- Si la música se reproduce anormalmente o cuando se reciben sonidos adicionales, baje el volumen.
- Con el objeto de evitar el daño debido a niveles excesivos de entrada, PIONEER recomienda utilizar este altavoz junto con amplificadores cuya potencia de salida continua efectiva sea menor que la potencia nominal de entrada de este altavoz.
- Ya que este altavoz está siendo usado continuamente encendido a todo volumen, la temperatura del circuito magnético aumenta, evite tocarlo directamente con la mano o poniendo algo cerca de él. Si se calentara, podría causar quemaduras, deformación o daños de las cosas alrededor del altavoz.
- Nunca conecte una única bobina del altavoz Double Bobina Móvil (DVC).
- Se deben conectar ambas bobinas al amplificador para que funcione correctamente.
- Si este producto se utilizara en condiciones al descubierto (sin una caja), el amortiguamiento insuficiente generará un sonido sin exactitud y reducirá la capacidad de manejar potencia hasta 1/4 de sus niveles usuales. Esto puede dar como resultado el daño permanente del producto.

● SPECIFICATIONS ● SPÉCIFICATIONS ● ESPECIFICACIONES

Model Modèle Modelo	Size Taille Tamaño	Continuous power handling (RMS) Puissance continue (RMS) Gestión continua de la potencia (RMS)	Max.music power Puissance musicale maximum Máxima potencia de musica	Nominal impedance Impédance nominale Impedancia nominal	Sensitivity Sensibilité Sensibilidad	Frequency response Bande passante Respuesta de frecuencia	Magnet weight Poids aimant Peso del imán	Displacement Déplacement Desplazamiento
TS-A120D4	12" (30 cm)	500 W	1 500 W	dual 4 Ω	77 dB (1 W / 1 m)	20 Hz To 2.3 kHz (–20 dB)	1 700 g (60 oz)	0.054 cu.ft 1.54 liters
TS-A100D4	10" (25 cm)	400 W	1 300 W	dual 4 Ω	74 dB (1 W / 1 m)	20 Hz To 2.0 kHz (–20 dB)	1 600 g (56 oz)	0.026 cu.ft 0.74 liters

Model Modèle Modelo	Revc (Ω)	Levc (mH)	Fs (Hz)	Qms	Qes	Qts	Vas (cu.ft) (liters)	Rms (N.S/m)	Mms (g)	Cms (m/N)	Diam (inch) (mm)	BL (T.m)	Xmax (inch) (mm)
TS-A120D4	dual 4.3	7.73 (8 Ω) 1.93 (2 Ω)	25	5.62	0.78	0.69	3.07 87.1	4.95	181	23.3×10^{-5}	10.1 256	17.7 (8 Ω) 8.9 (2 Ω)	0.40 10.1
TS-A100D4	dual 3.7	6.53 (8 Ω) 1.63 (2 Ω)	30	4.27	0.68	0.59	1.29 36.6	5.65	128	22.0×10^{-5}	8.2 209	16.1 (8 Ω) 8.0 (2 Ω)	0.43 10.8

● DVC (DUAL VOICE COIL) CONNECTION ● CONNEXION DVC (DOUBLE BOBINE MOBILE) ● CONEXIÓN DE LOS ALAMBRES DE DVC (DOBLE BOBINA MÓVIL)

Connection Connexion Conexión	Speaker wiring Câblage des haut-parleurs Conexión de los alambres de los altavoces	Advantage Avantage Ventajas
4 Ω Bridged mono (Parallel) 4 Ω Mono pontée (Parallèle) 4 Ω Sistema monofónico puenteado (Paralela) 	8 Ω Wiring 8 Ω Câblage 8 Ω Conexión de los alambres  4 Ω DVC : 8 Ω	Good for higher sensitivity Une sensibilité plus élevée Apropriado para una mayor sensibilidad
2 Ω Stereo 2 Ω Stéréo 2 Ω Sistema estereofónico 	2 Ω Wiring 2 Ω Câblage 2 Ω Conexión de los alambres  4 Ω DVC : 2 Ω	Good for higher sensitivity Une sensibilité plus élevée Apropriado para una mayor sensibilidad Good for channel separation La meilleure separation des canaux Apropriado para la separación de canal
2 Ω Bridged mono 2 Ω Mono pontée 2 Ω Sistema monofónico puenteado 	2 Ω Wiring 2 Ω Câblage 2 Ω Conexión de los alambres  4 Ω DVC : 2 Ω	Good for higher sensitivity Une sensibilité plus élevée Apropriado para una mayor sensibilidad Notice : Verify that your amplifier can operate in a 2 Ω mono configuration. Remarque : Vérifier que l'amplificateur peut fonctionner en configuration mono sous charge 2 Ω . Aviso : Asegúrese de que el amplificador puede ser operado en una configuración monofónica de 2 Ω .

⚠ CAUTION : Never connect only one voice coil of this Dual Voice Coil (DVC) speaker. Both voice coils must be connected to the amplifier for correct operation.

⚠ ATTENTION : Ne jamais connecter une seule bobine mobile de ce haut-parleur de Double Bobine Mobile (DVC). Les deux bobines doivent être connectées sur l'amplificateur afin d'assurer un fonctionnement correct.

⚠ PRECAUTION : Nunca conecte una única bobina del altavoz Double Bobina Móvil (DVC). Se deben conectar ambas bobinas al amplificador para que funcione correctamente.

● FEATURES

1. Glass fiber and mica reinforced IMPP cone for low distortion and high impact bass
2. Dual-spider and rubber surround provide stability and linearity during high output (TS-A120D4)
Spider and rubber surround provide stability and linearity during high output (TS-A100D4)
3. Powerful motor assembly with extended voice coil for powerful and accurate bass
4. Smooth and seamless integration with Pioneer A-series full-range speakers

● CARACTÉRISTIQUES

1. Membrane renforcée composite IMPP pour une faible distortion et un fort niveau de grave
2. Stabilité et linéarité à haute puissance grâce à la double suspension "spider" (TS-A120D4)
La nouvelle suspension "spider" apporte stabilité et linéarité même à haute puissance (TS-A100D4)
3. Structure magnétique renforcée pour un total contrôle du grave
4. Fonctionnement optimisé avec toute la gamme série-A

● CARACTERISTICAS

1. Cono IMPP reforzado con fibra de vidrio y mica para obtener unos bajos de alto impacto y baja distorsión
2. Contrucción doble en araña y el borde de goma proporcionan estabilidad y linealidad durante el alto rendimiento (TS-A120D4)
Contrucción en araña y el borde de goma proporcionan estabilidad y linealidad durante el alto rendimiento (TS-A100D4)
3. Incorpora un Potente Motor con una ampliada bobina movil proporciona unos bajos potentes y precisos
4. Fácil y perfecta integración con los altavoces de rango completo de la Serie A de Pioneer

Pioneer

A

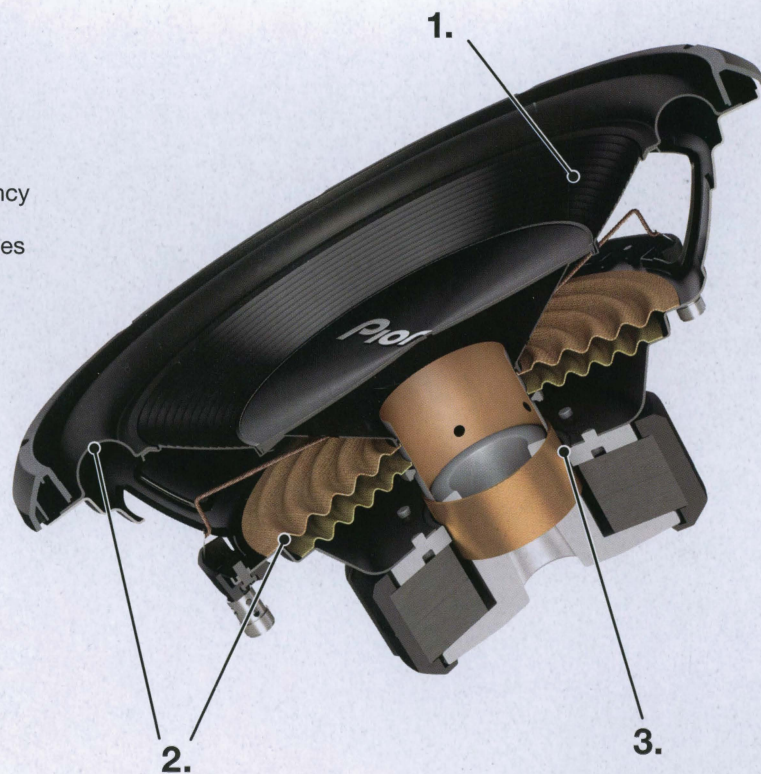
series / séries

A-series sound design delivers better car-music-life

- High power handling and high efficiency
- Powerful and accurate bass
- Frequency matched to Pioneer A-series

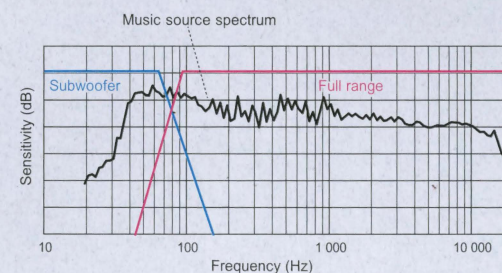
● FEATURES

1. Glass fiber and mica reinforced IMPP cone for low distortion and high impact bass
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TS-A120D4

COMPONENT SUBWOOFER



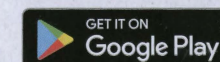
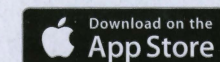
Subwoofer supports perfect music reproduction

**INJECTION
MOLDED
CONE**



CarSoundFit

Car Sound Simulator Application for more in-car sound experience. / Application Car Simulator pour plus d'expérience sonore dans la voiture.



Pioneer

TS-A120D4

HP D'EXTREME-GRAVE

A

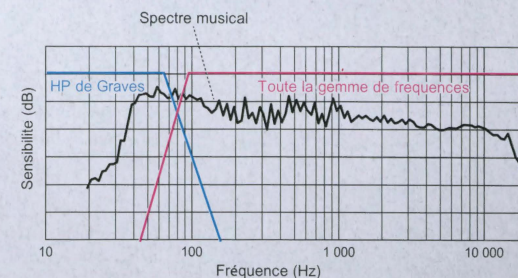
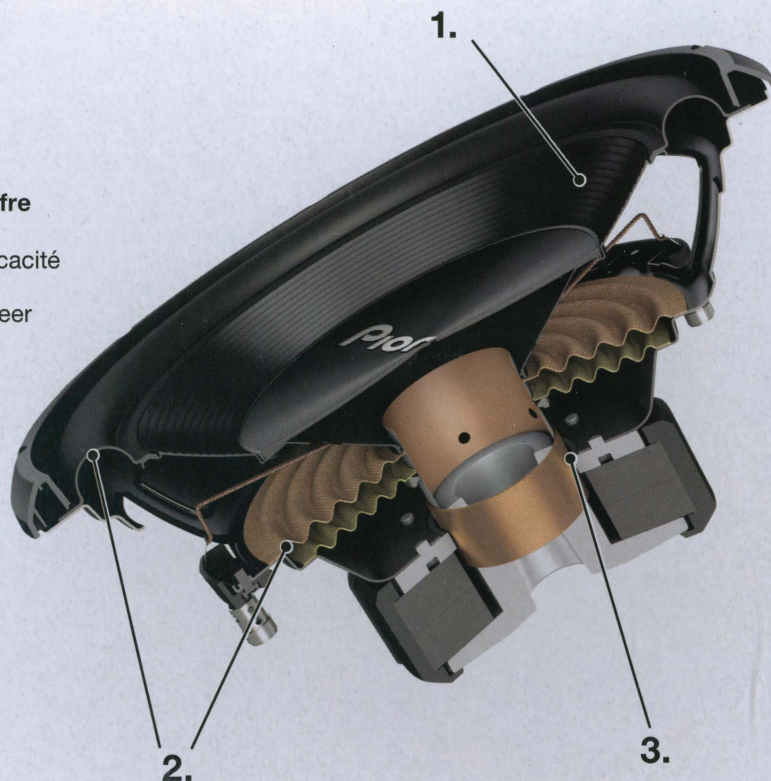
series / séries

La conception sonore de la série A offre une meilleure qualité sonore

- Haute tenue en puissance et haute efficacité
- Puissance et grave contrôlé
- Fréquences adaptées à la série-A Pioneer

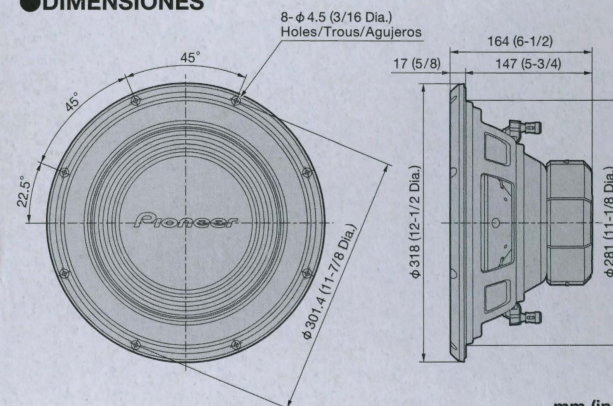
● CARACTÉRISTIQUES

1. Membrane renforcée composite IMPP pour une faible distortion et un fort niveau de grave
2. Stabilité et linéarité à haute puissance grâce à la double suspension "spider"
3. Structure magnétique renforcée pour un total contrôle du grave
4. Fonctionnement optimisé avec toute la gamme série-A



Subwoofer pour une parfaite reproduction musicale

● DIMENSIONS ● DIMENSIONS ● DIMENSIONES



mm (in.)

**INJECTION
MOLDED
CONE**

Be sure to read the attached instruction manual before installing this speaker.
 Prière de lire obligatoirement le manuel d'installation ci-joint avant de monter l'haut-parleur.
 Antes de instalar el altavoz cerciórese de leer el manual de instrucciones adjunto.



SPECIFICATIONS

- Speaker size ϕ 30 cm (12" dia.)
- Continuous power handling (RMS) 500 W
- Maximum music power 1500 W
- Sensitivity 77 dB (1W/1 m)
83 dB (1W/0.5 m)
- Frequency response 20 Hz to 2.3 kHz (-20 dB)
- Nominal impedance 4 Ω DVC
- Cutout diameter ϕ 281 mm (11-1/8" dia.)

SPÉCIFICATIONS

- Taille de haut-parleur ϕ 30 cm
- Puissance continue (RMS) 500 W
- Puissance musicale maximum 1500 W
- Sensibilité 77 dB (1 W/1 m)
83 dB (1 W/0,5 m)
- Bande passante 20 Hz à 2,3 kHz (-20 dB)
- Impédance nominale 4 Ω DVC
- Diamètre de découpe ϕ 281 mm

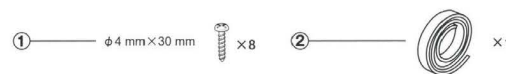
ESPECIFICACIONES

- Tamaño del altavoz ϕ 30 cm
- Gestión continua de la potencia (RMS) ... 500 W
- Máxima potencia de musica 1500 W
- Sensibilidad 77 dB (1 W/1 m)
83 dB (1 W/0,5 m)
- Respuesta de frecuencia
20 Hz a 2,3 kHz (-20 dB)
- Impedancia nominal 4 Ω DVC
- Diámetro de Corte ϕ 281 mm

PARTS INCLUDED

PIECES COMPRISES

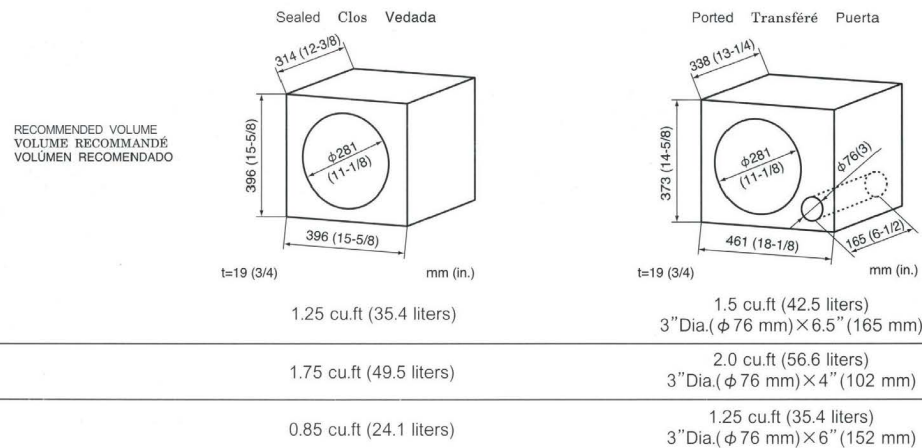
PIEZAS INCLUIDAS



RECOMMENDED ENCLOSURE VOLUME/PORT SIZES (1 port)

CONCEPTION POUR CAISSON/EVENT (1 event)

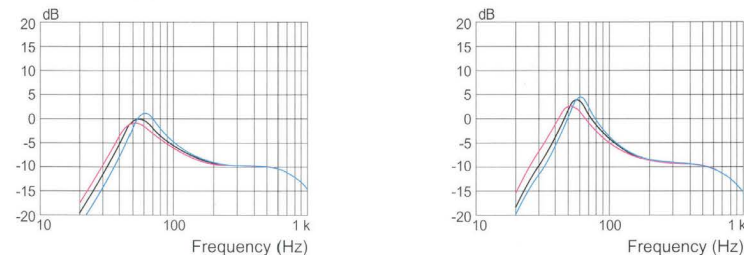
VOLUMENES DE LA CAJA/TAMAÑOS DE LAS PUERTAS RECOMENDADOS (1 puerta)



CHARACTERISTIC

CARACTERISTIQUE

CARACTERISTICA

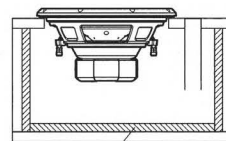
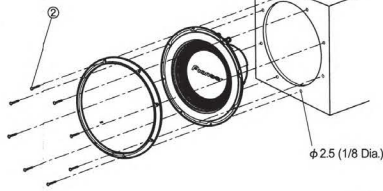
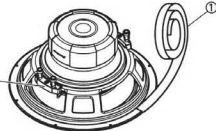
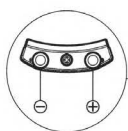
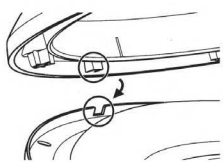


RECOMMENDED ENCLOSURE VOLUME VOLUME RECOMMANDÉ DU CAISSON DE L'ENCEINTE VOLUMEN DE LA CAJA RECOMENDADO
 MAXIMUM ENCLOSURE VOLUME VOLUME MAXIMUM DU CAISSON DE L'ENCEINTE VOLUME MASSIMO VOLUMEN MÁXIMO DE LA CAJA
 MINIMUM ENCLOSURE VOLUME VOLUME MINIMUM DU CAISSON DE L'ENCEINTE VOLUMEN MÍNIMO DE LA CAJA



● HOW TO INSTALL ● MODE D'INSTALLATION ● INSTALACION

△ CAUTION : Please be sure to use a gasket.
△ ATTENTION : S'il vous plaît assurez-vous d'utiliser un joint.
△ PRECAUCION : Por favor asegúrese de usar una junta.

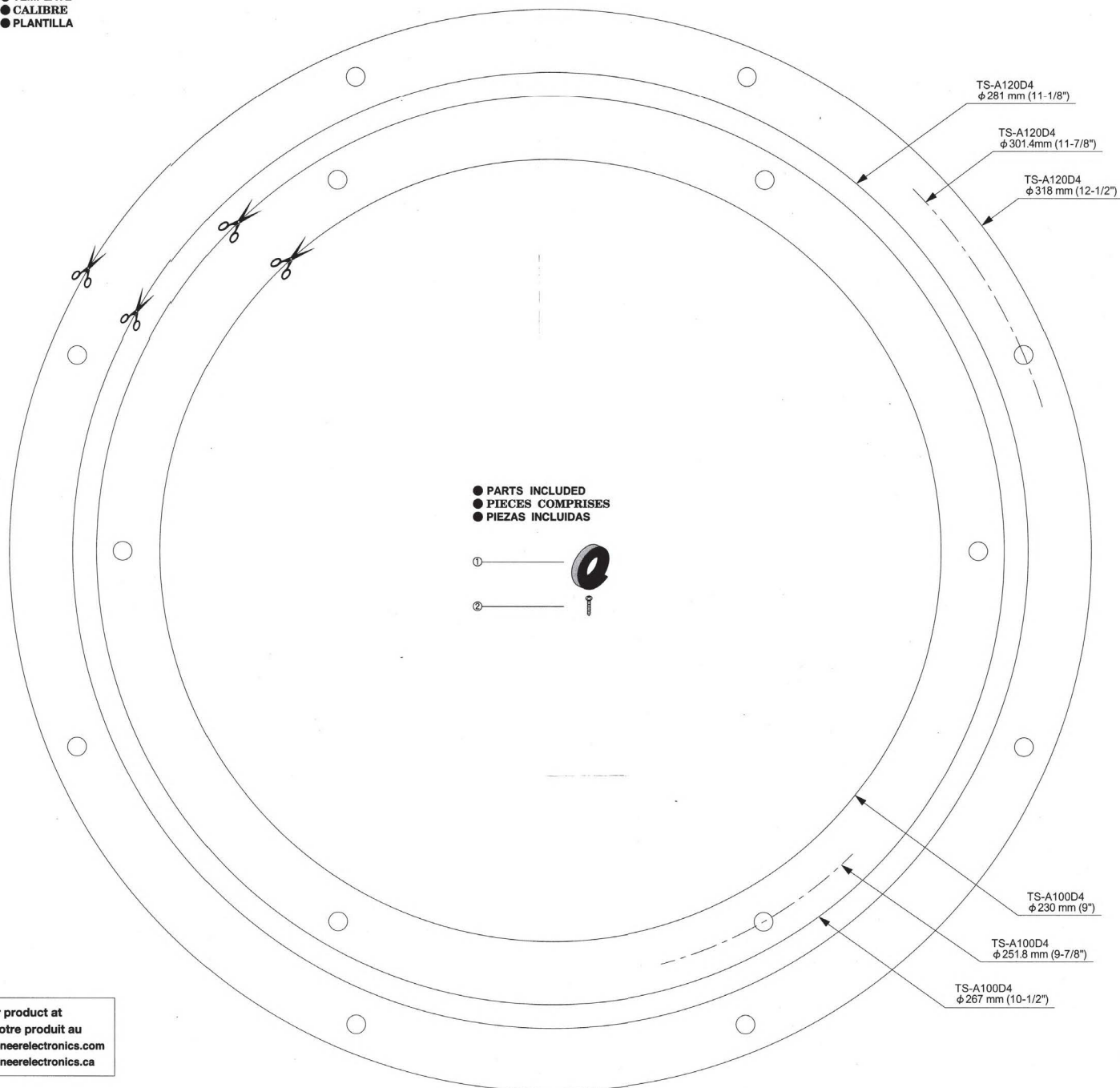


Sound-absorbing material on all the inner surfaces.
Matériau insonorisant sur chaque surface à l'intérieur.
El material de absorción de sonido se encuentra en todas las superficies internas.

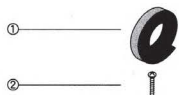
mm (in)

Model Modèle Modelo	Cutout hole Orifice de découpe Agujero cortado	Mounting depth Profondeur d'encastrément Profundidad de montaje	Height Hauteur Altura
TS-A120D4	φ281 (11-1/8 Dia.)	147 (5-3/4)	164 (6-1/2)
TS-A100D4	φ230 (9 Dia.)	133 (5-1/4)	149 (5-7/8)

● TEMPLATE
● CALIBRE
● PLANTILLA



● PARTS INCLUDED
● PIÈCES COMPRIS
● PIEZAS INCLUIDAS



Register your product at
Enregistrez votre produit au
<http://www.pioneerelectronics.com>
<http://www.pioneerelectronics.ca>

Pioneer



PIONEER ELECTRONICS (USA) INC.

LIMITED WARRANTY

WARRANTY VALID ONLY IN COUNTRY OF PRODUCT PURCHASE

WARRANTY

Pioneer Electronics (USA) Inc. (Pioneer) warrants that Pioneer® Car Electronics, Speaker, and Accessory Products distributed by Pioneer in the U.S.A. and Canada that fail to function properly under normal use due to a manufacturing defect when installed and operated according to the owner's manual enclosed with the unit will be repaired or replaced with a unit of comparable value, at Pioneer's option, without charge to you for parts or actual repair work. Replacement units and/or parts supplied under this warranty may be new or rebuilt at Pioneer's option.

This Limited Warranty applies to the original or any subsequent owner of this Pioneer product during the warranty period provided the product was purchased from an authorized Pioneer dealer in the U.S.A. or Canada. You will be required to provide a sales receipt or other valid proof of purchase showing the date of original purchase. In the event service is required, the product must be delivered within the warranty period, transportation prepaid, only from within the country of purchase as explained in this document. You will be responsible for removal and installation of the product. Pioneer will pay to return the repaired or replacement product to you within the country of purchase.

PRODUCT WARRANTY PERIOD (Runs from the date of first retail sale)

	Parts	Labor
Car Electronics, Speakers, and Accessories	1 Year	1 Year

WHAT IS NOT COVERED

This Limited Warranty applies to Pioneer products that are purchased from an authorized Pioneer dealer. IF THIS PRODUCT WAS PURCHASED FROM ANY OTHER SOURCE, THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE AND THIS PRODUCT IS SOLD STRICTLY "AS IS" AND "WITH ALL FAULTS". PIONEER SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL AND/OR INCIDENTAL DAMAGES. Some states and provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

Pioneer does not warrant any product listed above when it is used in a trade or business or in any industrial or commercial application. This warranty does not apply if the product has been subjected to power in excess of its published power rating. This warranty does not cover cosmetic scratches or any other appearance item; damage or defects resulting from alterations or modifications not authorized in writing by Pioneer; accident, collisions, misuse or abuse; the use of unauthorized parts or labor; improper installation or maintenance; lightning or power surges; subsequent damage from leaking; damage from inoperative batteries; or the use of batteries not conforming to those specified in the owner's manual. This warranty does not cover the cost of parts or labor that would otherwise be provided without charge under this warranty obtained from any source other than Pioneer. Altered, defaced, or removed serial numbers void this warranty.

NO OTHER WARRANTIES

TO THE FULLEST EXTENT PERMITTED BY LAW, PIONEER MAKES NO REPRESENTATIONS OR WARRANTIES OR ACCEPTS ANY CONDITIONS WITH RESPECT TO THIS PRODUCT EXCEPT AS STATED IN THIS DOCUMENT. PIONEER LIMITS ITS OBLIGATIONS UNDER ANY IMPLIED WARRANTIES AND CONDITIONS INCLUDING, BUT NOT LIMITED TO, WARRANTIES AND CONDITIONS, WHETHER EXPRESS OR IMPLIED, OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, TO A PERIOD NOT TO EXCEED THE WARRANTY PERIOD. NO WARRANTIES OR CONDITIONS SHALL APPLY AFTER THE WARRANTY PERIOD. Some states and provinces do not allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state or province to province. To the extent any provision of this limited warranty is deemed invalid or unenforceable under applicable law, such determination will have no effect on the remaining provisions, which will continue in full force and effect.

TO OBTAIN SERVICE

In the U.S.A. or Canada, to receive warranty service, you need to present your sales receipt showing place and date of original owner's transaction.

Please contact one of the following to obtain service:

Your Authorized Pioneer Dealer - Your Pioneer Dealer may repair or replace your unit or refer you to an Authorized Pioneer Service Company. Your sales receipt should list the contact information (phone number, fax, email, etc.) for your Dealer.

Pioneer Customer Support - Can advise the optimal service option for your model and geographic location. Please call us at 1-800-421-1404 or visit www.pioneerelectronics.com (for USA) or <http://www.pioneerelectronics.ca> (for Canada), click on "Support," then select "Contact Us."

Your Authorized Pioneer Service Company - Can perform repairs for most Car Electronics, Speaker and Accessory products and advise other options as applicable. Please visit Pioneer's website, click on "Support," and select "Find a Service Center."

Shipping Your Unit for Service - YOU MUST FIRST CONTACT PIONEER TO GET RETURN AUTHORIZATION. PLEASE DO NOT SEND IN YOUR PRODUCT WITHOUT CONTACTING CUSTOMER SUPPORT. If you have a return authorization number, please package the product carefully and send it transportation prepaid by a traceable, insured method to an Authorized Pioneer Service Company or Pioneer. Use adequate padding material to prevent damage in transit. Include your name, address and a telephone number where you can be reached during business hours.

For questions about your product, please contact Pioneer Customer Support as described above or write to us at:

Customer Support
Pioneer Electronics (USA) Inc.
P.O. Box 1720
Long Beach, California 90801 U.S.A.

DISPUTE RESOLUTION

Following our response to any initial request to Customer Support, should a dispute arise between you and Pioneer, Pioneer makes available its Complaint Resolution Program to resolve the dispute. The Complaint Resolution Program is available to you without charge. In the U.S.A., you are required to use the Complaint Resolution Program before you exercise any rights under, or seek any remedies, created by the Magnuson-Moss Warranty Act but may be entitled to file suit under state law without using the Complaint Resolution Program. To use the Complaint Resolution Program, call 1-800-421-1404 and explain to the customer service representative the problem you are experiencing, steps you have taken to have the product repaired during the warranty period, and the name of the authorized Pioneer Dealer from which the Pioneer product was purchased. After the complaint has been explained to the representative, a resolution number will be issued. Within forty (40) days of receiving your complaint, Pioneer will investigate the dispute and will either: (1) respond to your complaint in writing informing you what action Pioneer will take, and in what time period, to resolve the dispute; or (2) respond to your complaint in writing informing you why Pioneer will not take any action.

RECORD THE PLACE AND DATE OF PURCHASE. KEEP THIS INFORMATION AND YOUR SALES RECEIPT IN A SAFE PLACE

Model No. _____ Serial No. _____ Purchase Date _____

Purchased From _____

Pioneer

TS-A6960F 6" x 9" 4-Way Coaxial Speaker System

A-series sound design

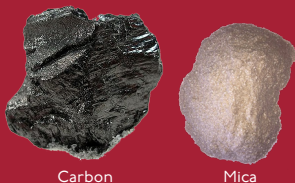
- Powerful and well controlled bass
- High sensitivity and wide dynamic range
- Natural and clear vocals

A
series / series



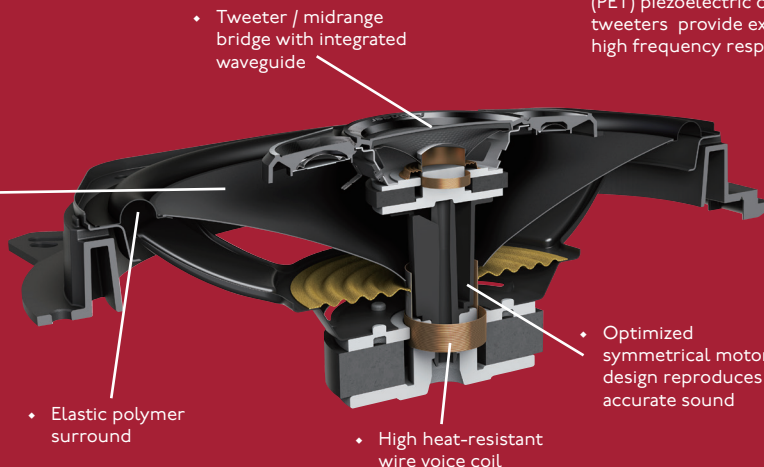
- Twin polyethylene terephthalate (PET) hard dome tweeters
 - 11mm tweeter
 - 18mm tweeter
- 2-1/4" cellulose fiber cone midrange
- 6" x 9" carbon and mica reinforced Injection Molded Polypropylene (IMPP) cone construction
- Included multi-fit installation adapter* to optimize fitment in applicable original equipment (OE) speaker locations

FEATURES AND TECHNOLOGY



INJECTION MOLDED CONE™

- Carbon and mica reinforced IMPP cone provides fast response and solid bass



- Tweeter / midrange bridge with integrated waveguide

- Twin lightweight polyethylene terephthalate (PET) piezoelectric crystal tweeters provide extended high frequency response



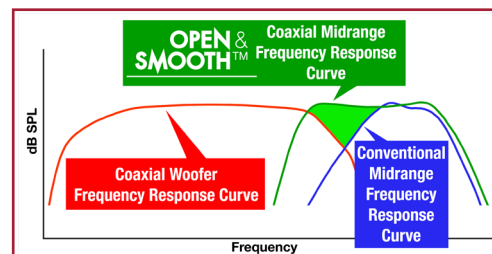
- Cellulose fiber midrange cone produces clear and natural sound with excellent frequency response characteristics

EASILY UPGRADE TO HIGH PERFORMANCE

OPEN & SMOOTH™

Upgrade Your Sound

- OPEN & SMOOTH™ delivers smooth frequency response and an expansive soundstage
- Clear high frequencies
- Deep, rich bass
- Low distortion, even at high output



Pioneer's OPEN & SMOOTH sound concept provides a seamless and smooth transition between the woofer and midrange / tweeter drivers and delivers uniform off-axis frequency response optimized for automotive applications where one or more speakers are often aimed away from the listeners' ears.

Easy Installation

- Included 6" x 9" multi-fit installation adapters expand installation flexibility and improve acoustic performance



Included multi-fit installation adapters



CarSoundFit

For a virtual listening demonstration of these and many other Pioneer car speakers, download the free Pioneer CarSoundFit app.



Compatibility Examples¹

MAKE	MODEL
CHEVROLET	SILVERADO / TAHOE
Dodge	RAM1500
FORD	F-150
Jeep	CHEROKEE
TOYOTA	CAMRY / TACOMA

● Pioneer Installation Fit Guide

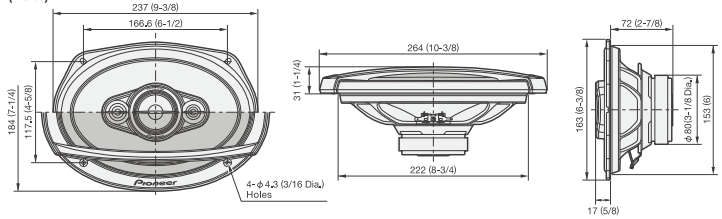
For more information about speaker and adapter compatibility, scan this QR code or visit:

<http://www.pioneer-carglobal.com/speakerfitting>



Dimensions

mm (inches)



Pioneer A-series 6" x 9" Coaxial Speaker Systems	TS-A6960F	TS-A6970F (also available)	TS-A6990F (also available)
System Type	4-way Coaxial	5-way Coaxial	5-way Coaxial
Sound Pressure Level (Sensitivity)	89dB (± 1.5dB)	89dB (± 1.5dB)	90dB (± 1.5dB)
Frequency Range	35 Hz to 24 kHz	34 Hz to 25 kHz	22 Hz to 25 kHz
Continuous Power Handling (RMS)	90 Watts	100 Watts	120 Watts
Maximum Peak Power Handling	450 Watts	600 Watts	700 Watts
Nominal Impedance	4Ω	4Ω	4Ω
Woofer Cone Diameter	6" x 9"	6" x 9"	6" x 9"
Woofer Cone Material	Carbon and mica reinforced IMPP	Carbon and mica reinforced IMPP	Carbon and mica reinforced IMPP
Surround Material	Elastic polymer	Elastic polymer	Elastic polymer
Woofer Magnet Material	Ferrite	Ferrite	Ferrite
Woofer Magnet Weight	11.3 oz	12.7 oz	15.2 oz
Mounting Depth	2-7/8"	2-7/8"	3-3/8" (Deep basket)
Tweeter / Midrange Type	11mm PET dome tweeter 18mm PET dome tweeter 2-1/4" cellulose fiber cone midrange	9mm PET dome super tweeter 11mm PET dome tweeter 18mm PET dome tweeter 2-1/4" PEI film cone midrange	9mm PET dome super tweeter 11mm PET dome tweeter 18mm PET dome tweeter 2-1/4" PEI film cone midrange
Woofer / Midrange Crossover Frequency	3,600 Hz	4,300 Hz	3,600 Hz
Multi-fit Installation Adapters	Included	Included	N/A

Pioneer A-series full-range speakers available in additional sizes and applications:

TS-A6970F, TS-A6990F (6" x 9") • TS-A6880F (6" x 8") • TS-A1670F, TS-A1680F (6-1/2") • TS-A1370F (5-1/4") • TS-A4670F (4" x 6")

⚠ WARNING: Over time, your hearing "comfort level" adapts to higher volumes of sound, so that what sounds "normal" can actually be doing harm. To protect against hearing loss, set your equipment's volume at a low setting, slowly increase it until you can hear it comfortably and clearly, and leave it there. Do not turn up the volume so high that you can't hear what's around you.

¹Information provided for reference only and does not imply guaranteed compatibility with each model year of the vehicles shown. Consult your Authorized Pioneer Dealer to confirm vehicle compatibility.

Protect your investment. Purchase from an Authorized Pioneer Dealer. Only products purchased from an Authorized Pioneer Dealer (or Authorized Pioneer Internet Dealer) qualify for the manufacturer's warranty and manufacturer's rebates. Pioneer Electronics (USA) Inc., Post Office Box 1760, Long Beach, California 90801 Pioneer Customer Service Department: 1-800-PIONEER

Note: Specifications, designs, and user interfaces are subject to modification without notice. Product colors and illumination may differ in photographs from actual appearance due to effects of printing and photography.

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2018 TS-A6960F- 9/18

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