



# Pioneer TS-D12D4 TS-D12D4 Car-use Component Subwoofer Instruction Manual

[Home](#) » [Pioneer TS-D12D4](#) » Pioneer TS-D12D4 TS-D12D4 Car-use Component Subwoofer Instruction Manual



# Pioneer

TS-D12D4 TS-D12D2

TS-D10D4 TS-D10D2

CAR-USE COMPONENT SUBWOOFER

2000wmax./nom.600w

1500wmax./nom.500w

## Contents

- 1 TS-D12D4 Car-use Component Subwoofer
- 2 FEATURES
- 3 DVC (DUAL VOICE COIL) CONNECTION
- 4 SPECIFICATIONS
- 5 CHARACTERISTIC
- 6 TEMPLATE
- 7 Documents / Resources
  - 7.1 References

## TS-D12D4 Car-use Component Subwoofer



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



### 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.

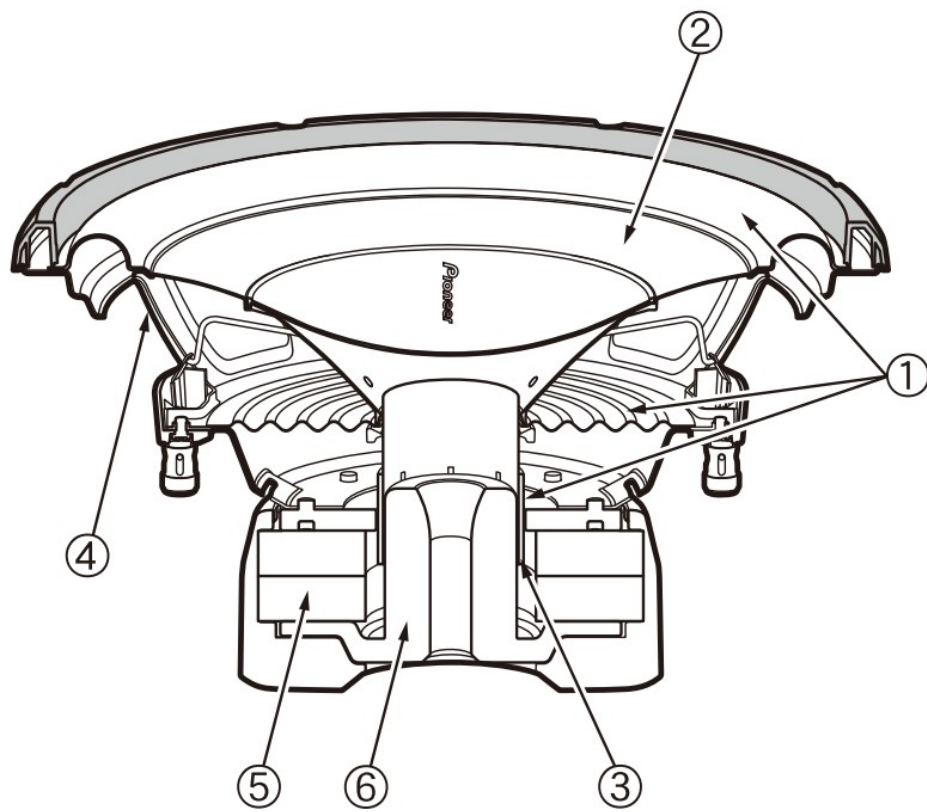
## CAUTION

- 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.
- 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.

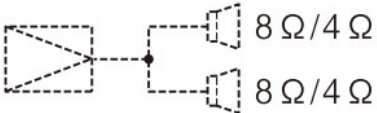
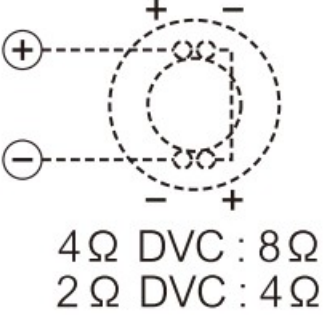

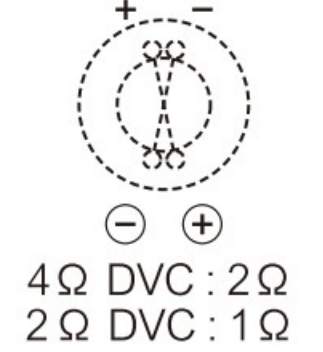
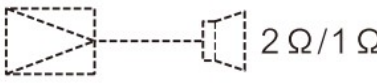
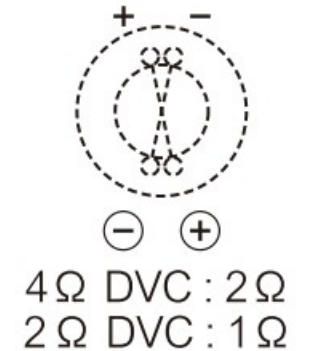
※ Information Note for Customers in Russia and CIS countries.

## FEATURES

1. High Dynamic Range delivers superior bass response and high linearity with wide dynamics and extremely low distortion.
2. Aramid fiber interlaced IMPP™ cone reproduces extraordinarily accurate and detailed bass.
3. Extended voice coil combined with a rubber surround increases linear stability even during high excursion and high output.
4. Heavy gauge steel woofer basket provides high strength supporting an oversized magnetic motor structure.
5. Powerful motor assembly optimized using finite element analysis reproduces “Deep & Accurate” bass sound.
6. Vented and projected pole yoke design provides more efficient heat dissipation and superior linearity during high excursion.



**DVC (DUAL VOICE COIL) CONNECTION**

Connection	Speaker wiring	Advantage
<p>4Ω/2Ω Bridged mono (Parallel)</p> 	<p>8Ω/4Ω Wiring</p> 	Good for higher sensitivity
<p>2Ω/1Ω Stereo</p> 	<p>2Ω/1Ω Wiring</p> 	<p>Good for higher sensitivity</p> <p>Good for channel separation</p>
<p>2Ω/1Ω Bridged mono</p> 	<p>2Ω/1Ω Wiring</p> 	<p>Good for higher sensitivity</p> <p><b>Notice:</b> Verify that your amplifier can operate in 2Ω/1Ω mono configuration.</p>

**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.

## SPECIFICATIONS

Model	Size	Nominai power	Max.music power	Nominai imped ance
TS-D12D4	30 cm (12")	600 W	2 000 W	4 Q DVC
TS-D12D2	30 cm (12")	600 W	2 000 W	2 Q DVC
TS-D10D4	25 cm (10")	500 W	1 500 W	4 Q DVC
TS-D10D2	25 cm (10")	500 W	1 500 W	2 Q DVC

Sensitivity	Frequency response	Magnet weight	Displacement
78 dB (1 W / 1 m)	20 Hz To 4.7 kHz (-20 dB)	2 100 g (74 oz)	1.33 liters (0.047 cu.ft)
76 dB (1 W / 1 m)	20 Hz To 4.7 kHz (-20 dB)	2 100 g (74 oz)	1.33 liters (0.047 cu.ft)
76 dB (1 W/ 1 m)	20 Hz To 6.6 kHz (-20 dB)	1 600 g (56 oz)	0.96 liters (0.034 cu.ft)
74 dB (1 W / 1 m)	20 Hz To 6.6 kHz (-20 dB)	1 600 g (56 oz)	0.96 liters (0.034 cu.ft)

Reve (Ω)	Leve (mH)	Fs (Hz)	Qms	Qes
Dual 3.3 Dual 1.7 Dual 3.6 Dual 1.7	4.52(8Q) 1.14(2Q) 2.80(4Q) 0.72(1Q) 4.31 (8Q) 1.08(2Q) 2.59(4Q) 0.66 (12)	34 33 41 40	9.75 9.71 8.41 8.74	0.7 0.6 0.8 0.7
Rms (N.S/m)	Mms (g)	Cms (m/N)	Diam (mm) (inch)	BL (T.m)
3.92 4.13 3.69 3.76	183 193 124 131	$1.3 \times 10^{-4}$ $12 \times 10^{-4}$ $14 \times 10^{-4}$ $12 \times 10^{-4}$	256 10.1 256 10.1 209 8.2 209 8.2	19.2 9.5 14.0 7.3 16.2 8.0 12.2 6.4

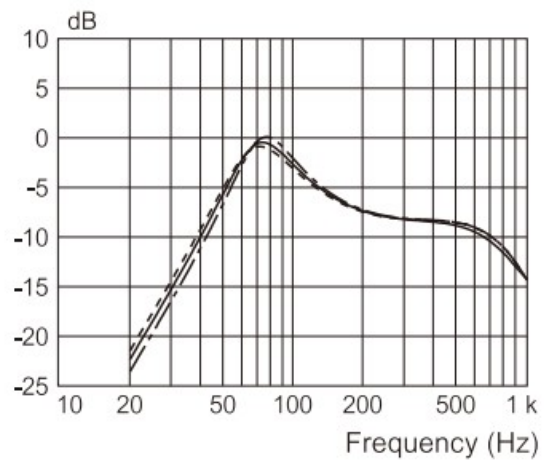
#### RECOMMENDED ENCLOSURE VOLUME/PORT SIZES (1 port)

TS-D12D4 / TS-D12D2	<p style="text-align: center;"><b>Sealed</b></p> <p style="text-align: right;">mm (in)</p>	<p style="text-align: center;"><b>Ported</b></p> <p style="text-align: right;">mm (in)</p>
RECOMMENDED VOLUME	28.3 liters (1.0 cu.ft)	28.3 liters (1.0 cu.ft) Ø 76X152 (3 Dia. x6)
MAXIMUM VOLUME	34.0 liters (1.2 cu.ft)	34.0 liters (1.2 cu.ft) Ø 76X127 (3 Dia.x5)
MINIMUM VOLUME	22.6 liters (0.8 cu.ft)	22.6 liters (0.8 cu.ft) Ø 76X178 (3 Dia.Xx7)
TS-D10D4 / TS-D10D2	<p style="text-align: center;"><b>Sealed</b></p> <p style="text-align: right;">mm (in)</p>	<p style="text-align: center;"><b>Ported</b></p> <p style="text-align: right;">mm (in)</p>
RECOMMENDED VOLUME	19.8 liters (0.7 cuft)	19.8 liters (0.7 cuft) Ø 51X127 (2 Dia x5)
MAXIMUM VOLUME	22.6 liters (0.8 cu.ft)	22.6 liters (0.8 cu.ft) Ø 51X102 (2 Dia. x 4)
MINIMUM VOLUME	14.2 liters (0.5 cu.ft)	17.0 liters (0.6 cu.ft) Ø 51X152 (2 Dia.x6)

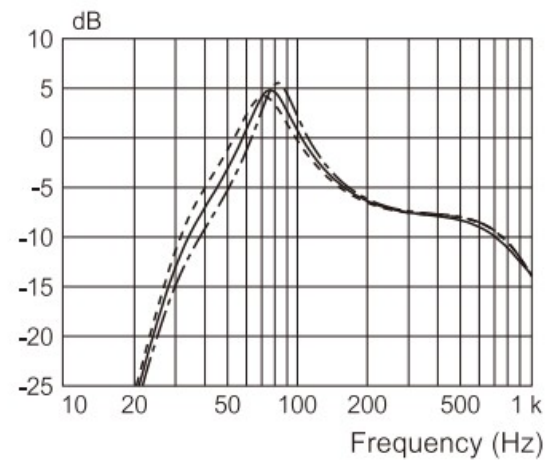
## CHARACTERISTIC

### TS-D12D4

Sealed

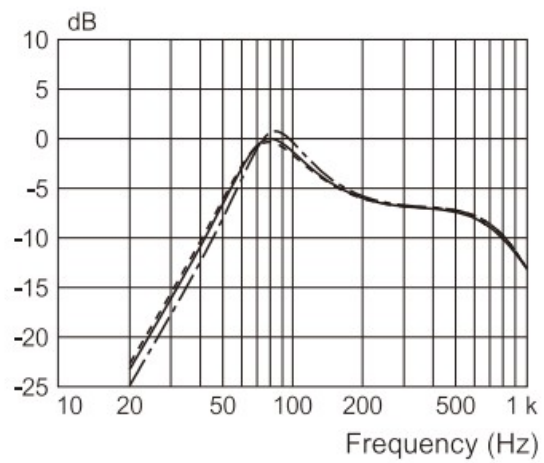


Ported

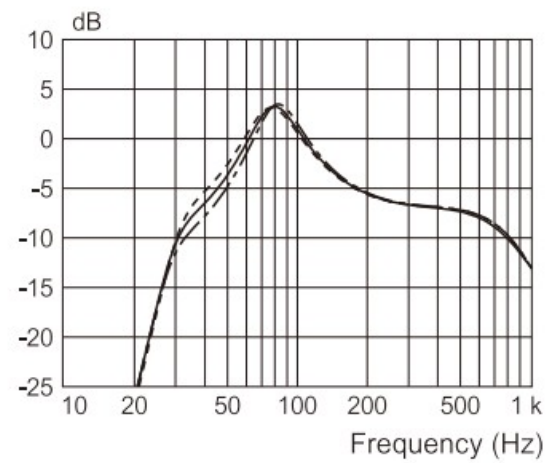


### TS-D10D4

Sealed

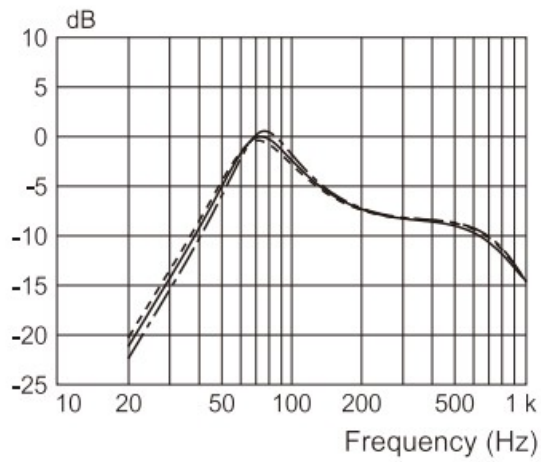


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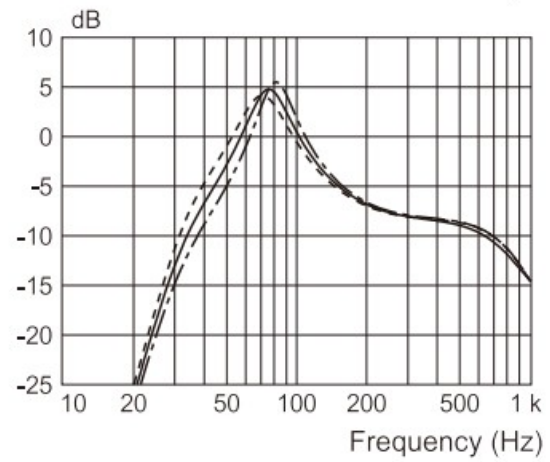


## TS-D12D2

Sealed

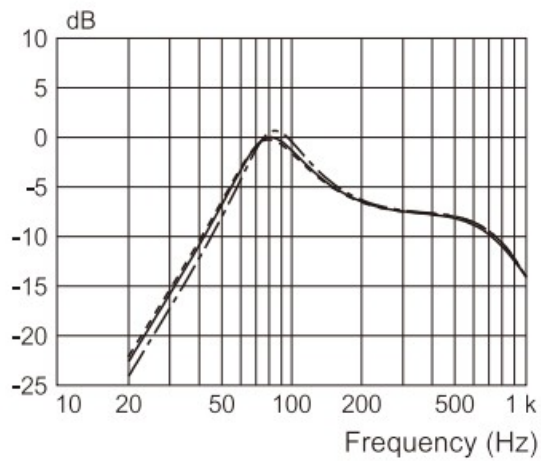


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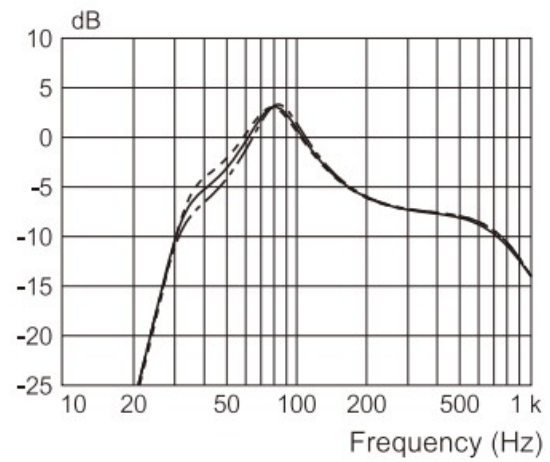


## TS-D10D2

Sealed



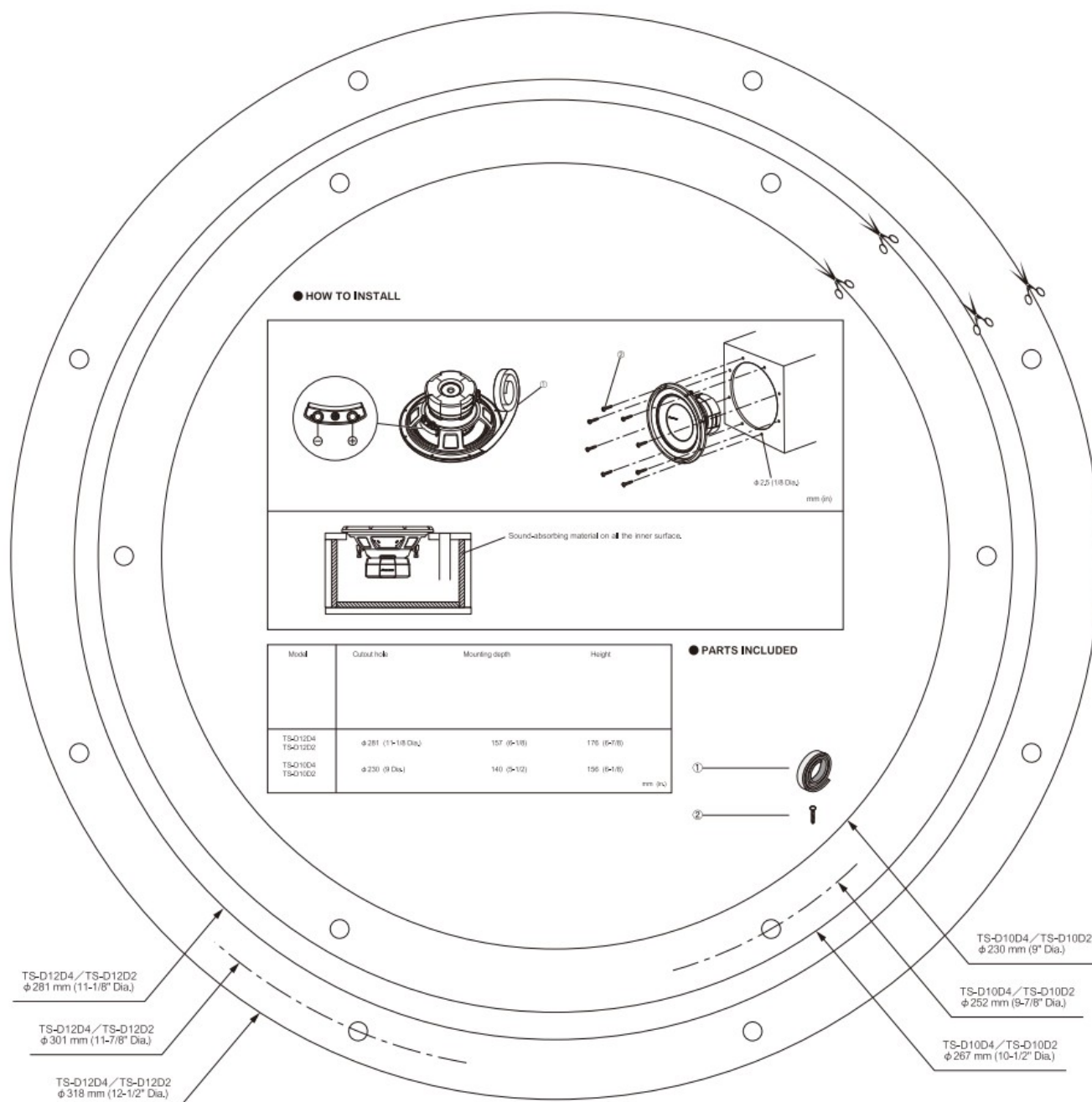
Ported



——— RECOMMENDED ENCLOSURE VOLUME  
----- MAXIMUM ENCLOSURE VOLUME  
- - - - MINIMUM ENCLOSURE VOLUME

**TEMPLATE**





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## Documents / Resources



[Pioneer TS-D12D4 TS-D12D4 Car-use Component Subwoofer \[pdf\] Instruction Manual](#)  
TS-D12D4 Car-use Component Subwoofer, Car-use Component Subwoofer, Component Subwoofer

## References

-  [Manual-Hub.com - Free PDF manuals!](#)
- [User Manual](#)

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