



Santa Fe Springs, California
www.interfireaudio.com

HIGH PERFORMANCE SUBWOOFERS

Common Features

Die-Cast Aluminum basket, silver painted
 4 layer 3 inch EISV extra long dual voice coil
 Non-press paper cone with Santaprene Foam surround
 CONEX Spider with woven high current tinsel wires
 Magnet: Barium Ferrite(double stacked)

Chrome finished Top and Bottom Plate
 Extended & Vented Pole Piece
 Large inverted dome dust cap
 Nickel plated push terminal

Mechanical Specifications

Model	Pro-X10D	Pro-X12D	Pro-X15D
Diameter Size (inches)	10"	12"	15"
Max Power Handling (watts)	1500W	2000W	2500W
RMS Continuous Power Handling	700W	1000W	1300W
Nominal Impedance (Ohm)	Dual 4 Ohm	Dual 4 Ohm	Dual 4 Ohm
Frequency Response (Hz)	20-1 khz	20-1 khz	20-1 khz
Fs (Hz)	42.10	37.20	34.20
VAS (Liters)	18.50	30.60	88.60
Qts	0.48	0.51	0.61
Qms.	5.85	5.16	5.96
Xmax (mm)	14	14	14
Sensitivity (dB)	84.70	87.20	87.90
Magnet Weight (oz.)	120	120	130
Sealed Box Size	0.39-1.0 cu.ft	0.8-1.3 cu.ft	4.79-8.74 cu.ft
Ported Box Size	1.0 cu.ft	1.8 cu.ft	5.0 cu.ft
Mounting Depth (inches)	6.49"	7.16"	8.65"
Template Diameter (inches)	10.55"	11.20"	15.59"



HIGH PERFORMANCE SUBWOOFERS

Common Features

Santaprene Rubber Surround
4 Layer / 3" EISV Voice Coils
Die cast Aluminum Frame

Large double stacked Barium Ferrite magnets
Extended & vented pole piece
Nickel plated push terminals

Mechanical Specifications

Model	PRO-V10D	PRO-V12D	PRO-V15D
Diameter size (inches)	10.75"	12.56"	15.25"
Magnet Weight (oz)	100	130	130
Power Handling RMS / Max (Watts)	900/1700	1000/2100	1300/2500
Mounting Depth (inches)	5.3"	5.86"	7.24"
Mounting template diameter (inches)	10"	11.14"	14.66"

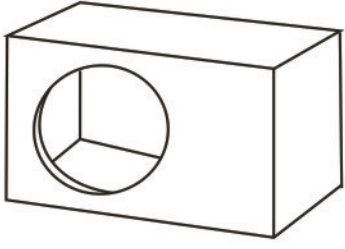
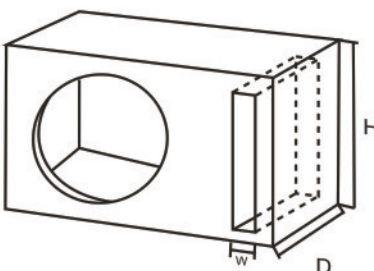
Technical Parameters

Model	PRO-V10D	PRO-V12D	PRO-V15D
Nominal Impedance (Ohms)	DUAL 4	DUAL 4	DUAL 4
FS (Hz)	34.7	34.1	29.2
Qms	4.45	4.36	6.65
Qes	0.52	0.45	0.66
Qts	0.46	0.41	0.60
Vas (liters)	22.3	39.9	105.7
Cms (micro Newtons)	0.15	0.11	0.11
Xmax (mm)	10	11	16
Sensitivity (dB)	84.4	87.3	87.9
Mms (grams)	143.5	199.5	264.4
Voice Coil Diameter	2.5"	3"	3"
Voice Coil Length	0.95"	1.34"	1.34"
Voice Coil Layers	4	4	4

Enclosures (includes speaker and port displacement)

Model	PRO-V10D	PRO-V12D	PRO-V15D
Sealed Enclosure - SPL (cu.ft.)	0.39	0.8	4.799
Sealed Enclosure - Nominal (cu.ft.)	0.60	1.0	5.968
Sealed Enclosure - SQ (cu.ft.)	1.1	1.3	8.742
Ported Enclosure (cu.ft.)	1.0	1.8	5
Port size	1"W×6"H×11.8"D	3"W×13"H×8"D	2.7"W×17.6"H×11.8"D
Port Tuned @	30Hz	45Hz	38Hz

*PRO-V not recommended for sealed enclosure, please consult interfire's authorized dealer for additional enclosure designs

SEALED ENCLOSURE	PORTED ENCLOSURE
 <p>Sealed Enclosure Notes:</p> <ol style="list-style-type: none"> 1. Allow a 1 - 2 week break in period on all PRO-V series subwoofers. After 1 - 2 weeks, the PRO-V series subwoofers will reach their best performance characteristics. 2. All sealed enclosures should be 40-50% filled with loose polyfill. 	 <p>Ported Enclosure Notes:</p> <ol style="list-style-type: none"> 1. When building a slotted port, be sure to shave, smooth or bevel the inner edges to eliminate port noise.

General Notes: Always use MDF (Medium Density Fiber) wood no thinner than 3/4" thick. Always install multiple subwoofers in a "Common-Chamber" enclosure, rather than separate chambers.

PRO-V10D/PRO-V12D/PRO-V15D

SUBWOOFER WIRING CONFIGURATIONS

Parallel wired subwoofer

Voice coil 1 in parallel with voice coil 2. Two 4 ohm loads in parallel results in a 2 ohm load. This particular set up is used mostly with the class-d amplifier.

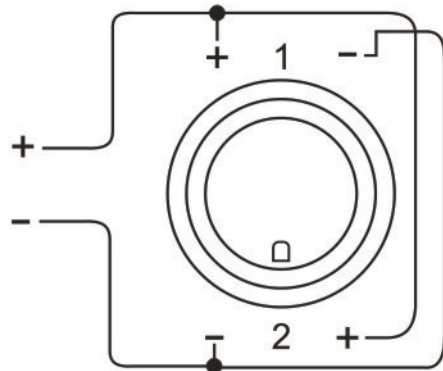


Figure A.

Parallel/Parallel Combo

Each subwoofer's voice coils are in parallel. Each subwoofer is now 2 ohms. After putting the two 2 ohm subwoofers in parallel, you get a 1 ohm mono load.

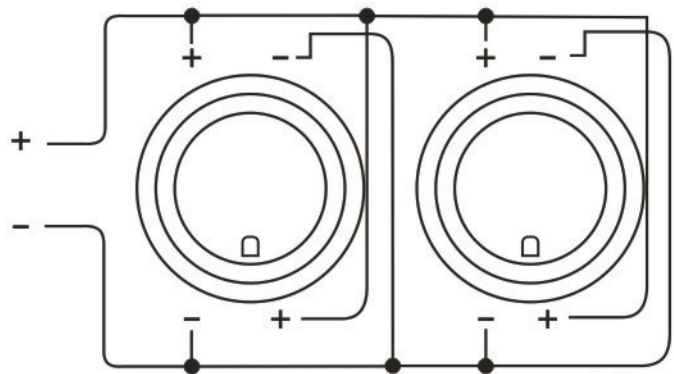


Figure B.

Series wired subwoofer

Voice coil 1 in series with voice coil 2. $4\text{ ohm} + 4\text{ ohm} = 8\text{ ohms}$. If you had two of these series wired subwoofers, you can put two in parallel and get a 4 ohm mono load

Recommended Amplifier:

***Not recommended for single use**

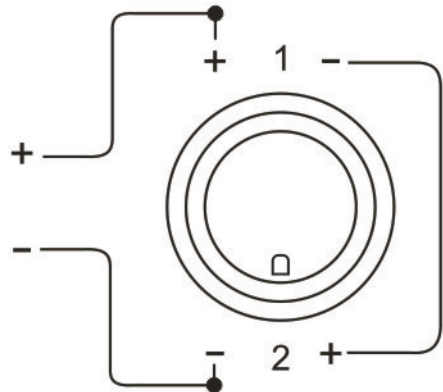


Figure C.

Series/Parallel Combo

Each subwoofer in the same as figure C, as shown above. When wiring two 8 ohm subwoofer in parallel, you receive a 4 ohm mono load.

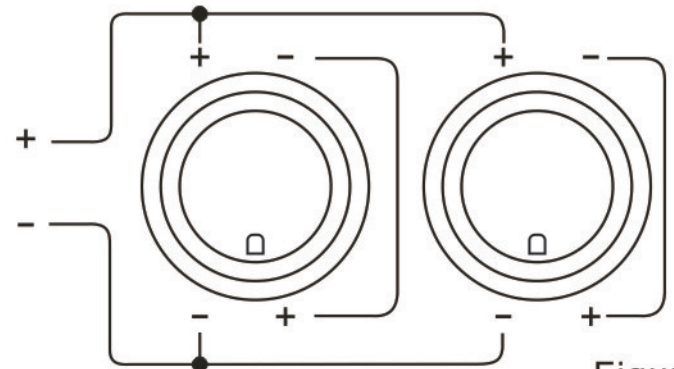


Figure D.

Warning: warranty does not cover burnt voice coils, and physically torn or damaged