



R2-Series SUBWOOFER
HAUT-PARLEUR D'EXTRÊMES GRAVES R2-Series
APPLICATION GUIDE
GUIDE D' APPLICATION

R2-W12D4

12 Inch Dual Voice Coil Subwoofer (4Ω)+(4Ω)
Haut-parleur d'extrêmes graves à double bobine 12 po (4Ω)+(4Ω)

R2-W12D2

12 Inch Dual Voice Coil Subwoofer (2Ω)+(2Ω)
Haut-parleur d'extrêmes graves à double bobine 12 po (2Ω)+(2Ω)

R2-W10D4

10 Inch Dual Voice Coil Subwoofer (4Ω)+(4Ω)
Haut-parleur d'extrêmes graves à double bobine 10 po (4Ω)+(4Ω)

R2-W10D2

10 Inch Dual Voice Coil Subwoofer (2Ω)+(2Ω)
Haut-parleur d'extrêmes graves à double bobine 10 po (2Ω)+(2Ω)

R2-W8D4

8 Inch Dual Voice Coil Subwoofer (4Ω)+(4Ω)
Haut-parleur d'extrêmes graves à double bobine 8 po (4Ω)+(4Ω)

R2-W8D2

8 Inch Dual Voice Coil Subwoofer (2Ω)+(2Ω)
Haut-parleur d'extrêmes graves à double bobine 8 po (2Ω)+(2Ω)

**Reinforced Parabolic Cone Structure with
Pulp/Kevlar Cone & PP/Ceramic Dust Cap**

**High Amplitude Multi-Roll
Santoprene® Surround**
(US Pat #8,208,677)

**Twist-Lock
EZ-Change
Grille System**

**Custom-Designed
Cast Aluminum
Frame**

**Perimeter Venting with
Airflow Management
System** (US Pat #7,684,585)

**High-Excursion Overhung
Voice Coil Configuration**

**Compound Radius Curve
Extended Pole Geometry**
(US Pat #6,639,993)

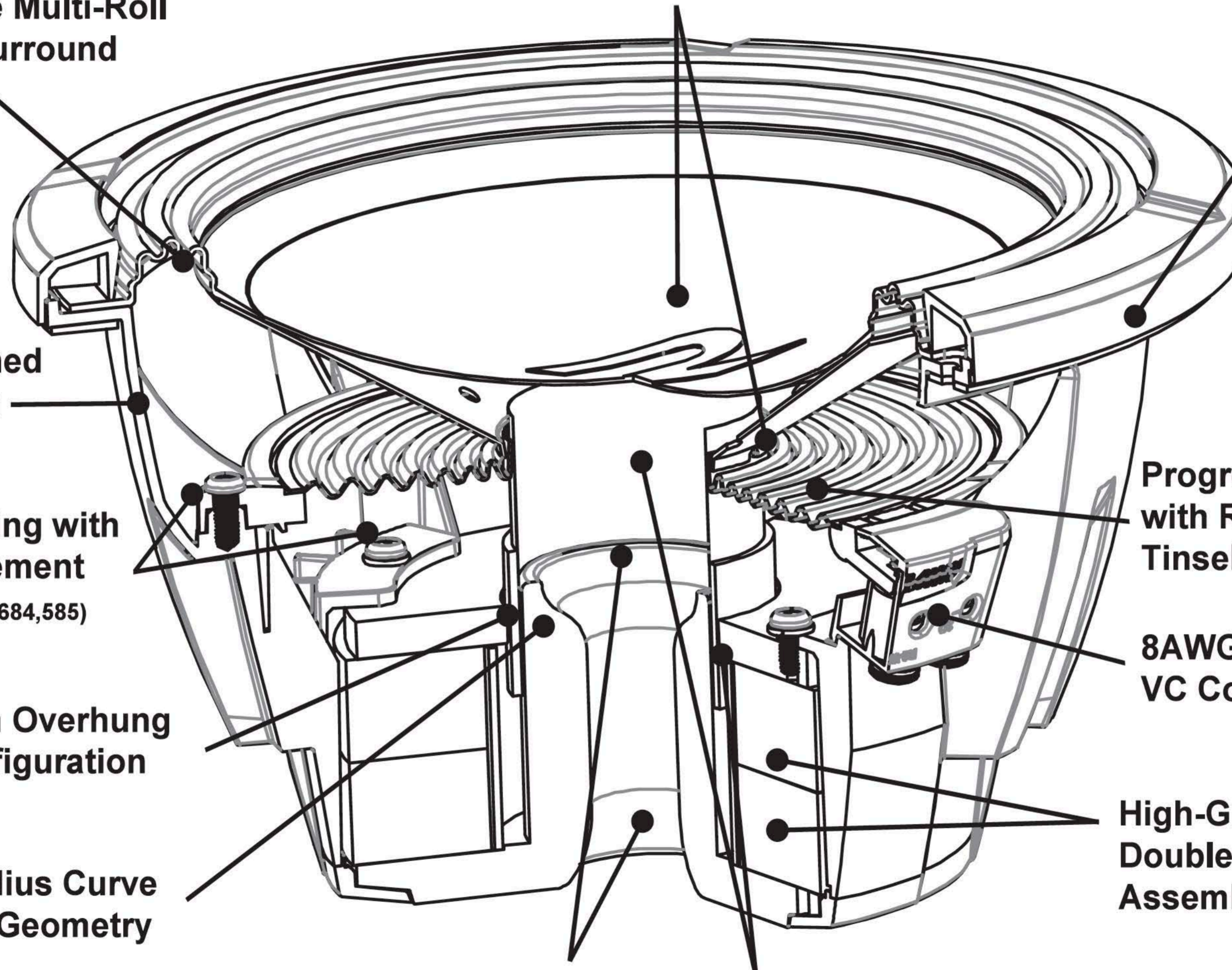
**Progressive Spider
with Reinforced Layer
Tinsel Leads** (US Pat #6,810,988)

**8AWG Push Terminals with
VC Configuration Jumpers**

**High-Grade Strontium Ferrite
Double-Stacked Magnet
Assembly**

**Airflow Optimized
Dual Flare Pole Vent**

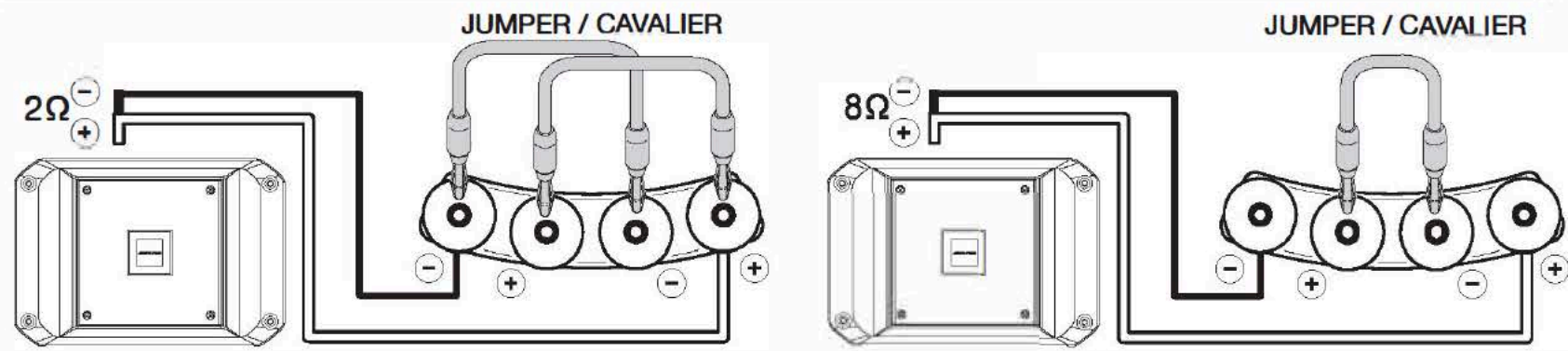
**65mm Voice Coil with High-Temp
4-Layer DVC Winding on AL Former**



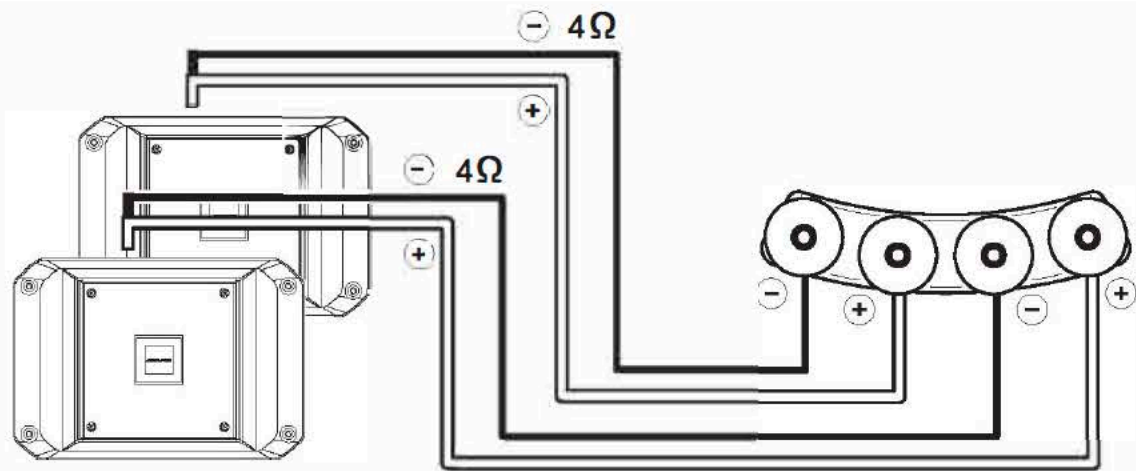


4 + 4

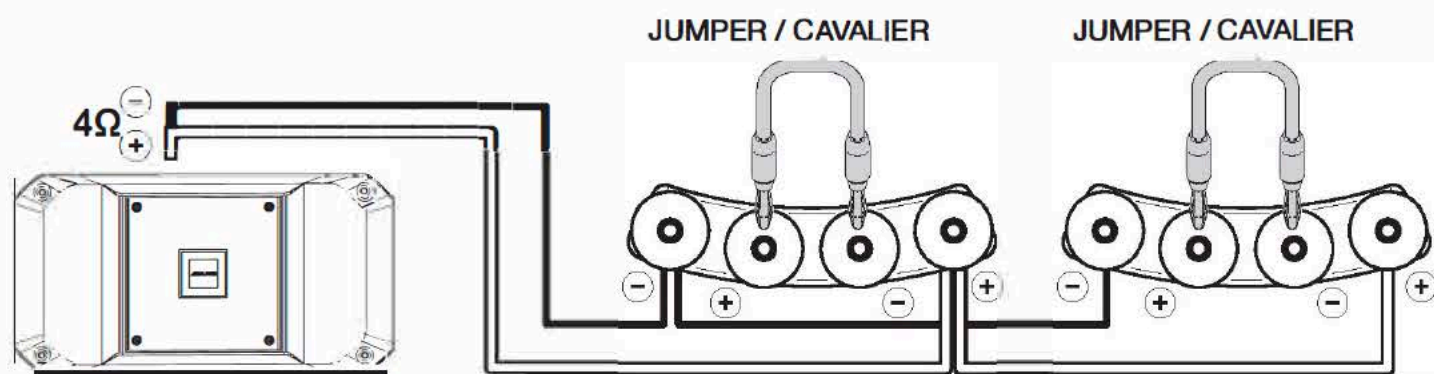
Example 1 One Amplifier + One Subwoofer



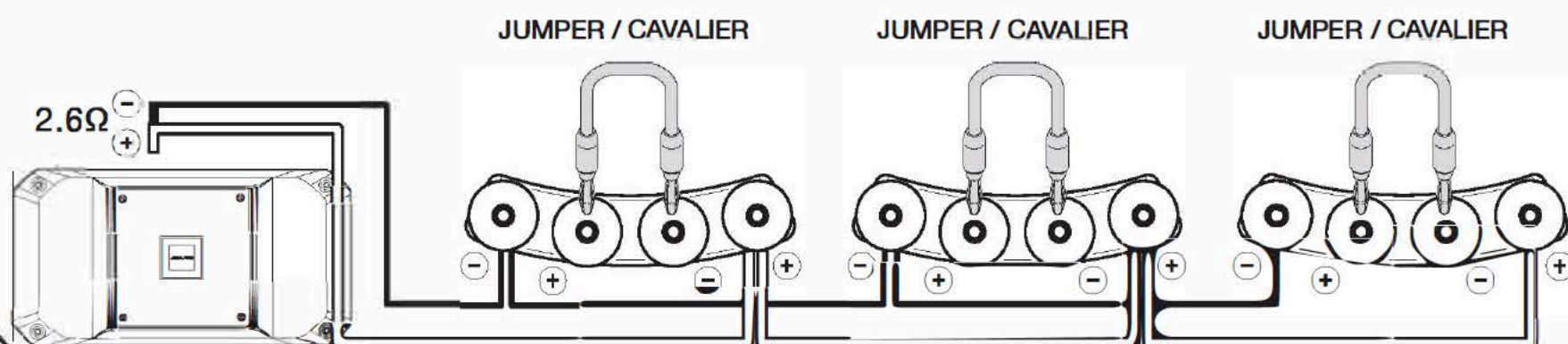
Example 3 Two Amplifiers + One Subwoofer



Example 5 One Amplifier + Two Subwoofers



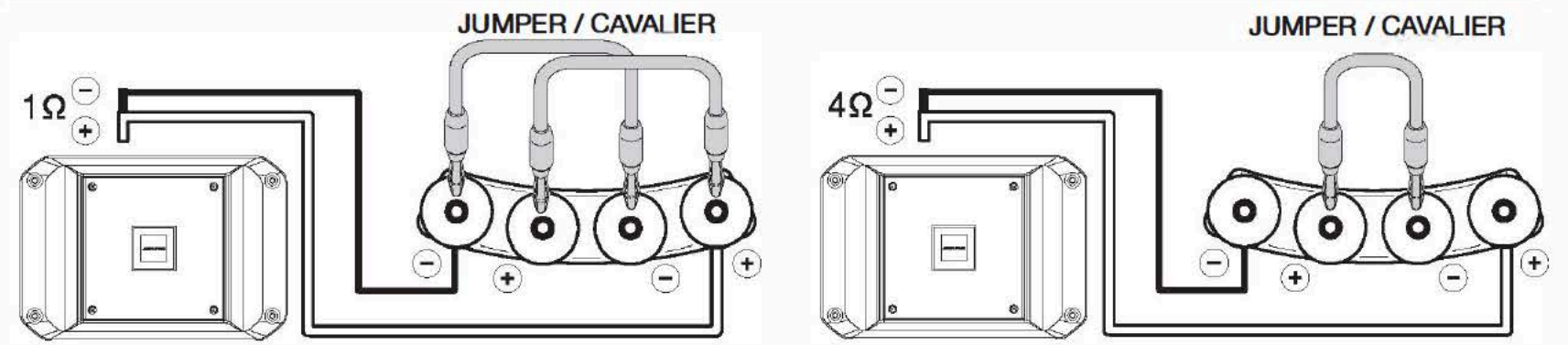
Example 7 One Amplifier + Three Subwoofers



2 + 2

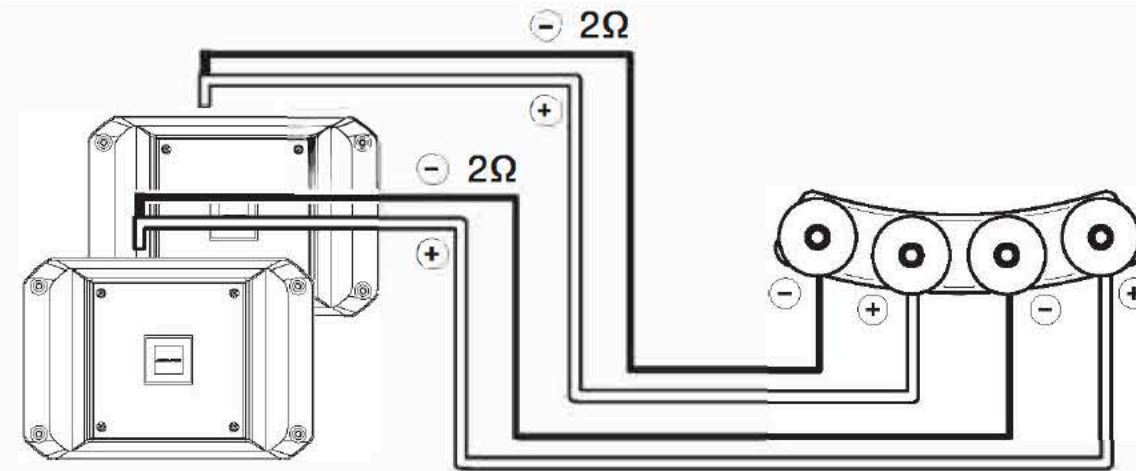
R2-W804/R2-W1004/R2-W1204
R2-W802/R2-W1002/R2-W1202

Example 2 One Amplifier + One Subwoofer

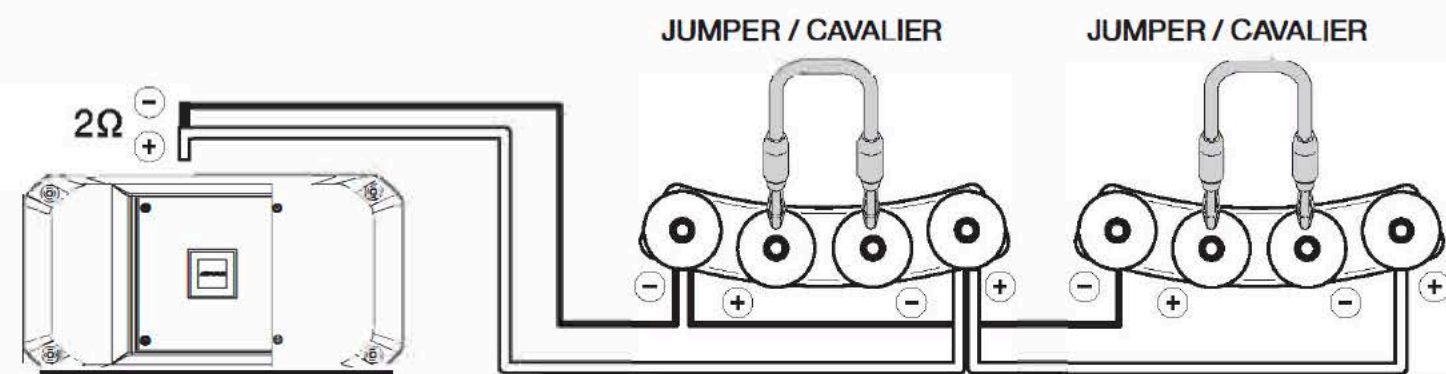


Caution! Consult amplifier owner's manual for 1Ω connection.
Attention : lire le manuel de l'amplificateur pour la connexion à 1Ω.

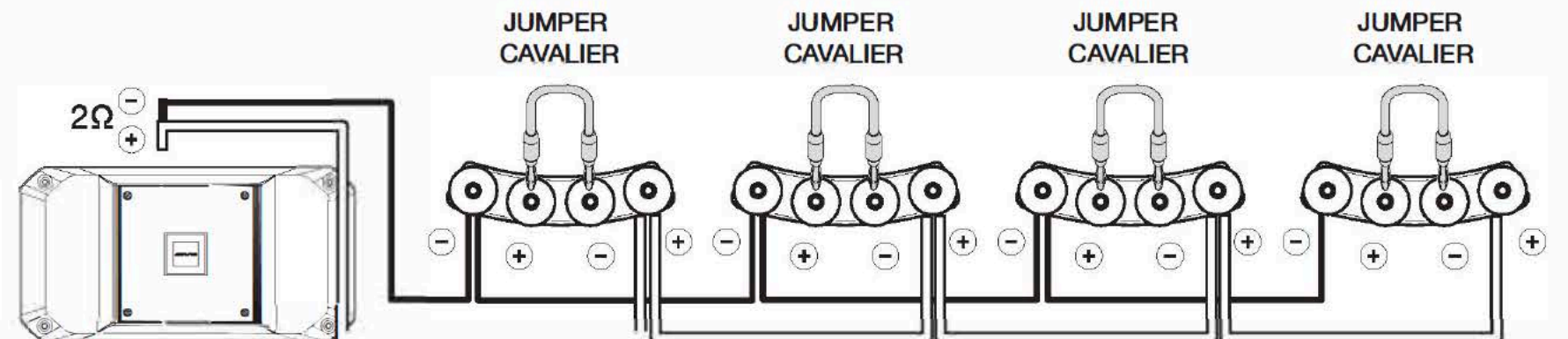
Example 4 Two Amplifiers + One Subwoofer



Example 6 One Amplifier and Two Subwoofers



Example 8 One Amplifier + Four Subwoofers



General Specifications		
Sealed	Taille	
Frequency Response	Response en Fréquence	
Power Range	Plage de Puissance	
Power Handling	Puissance Admissible	
Magnet Weight	Poids de l'aimant	
Voice Coil Diameter	Diamètre de la bobine	
Thiel-Small Parameters		
Sensitivity (1W/1m)	Sensibilité (1W/1m)	SPL
DC Resistance	Résistance CC	R_e
Free Air Resonance	Résonance à l'air libre	F_s
Equivalent Stiffness	Raidier équivalente	V_{as}
Mechanical Q	Q Mécanique	Q_{ms}
Electrical Q	Q Électrique	Q_{es}
Total Q	Q Total	Q_{ts}
Cone Area	Surface du diaphragme	S_d
Linear Excursion	Displacement Linéaire	X_{max} (1-way)
Mechanical Travel	Déplacement Mécanique	X_{mech} (P-P)

R2-Series					
R2-W8D2	R2-W8D4	R2-W10D2	R2-W10D4	R2-W12D2	R2-W12D4
2Ω+2Ω	4Ω+4Ω	2Ω+2Ω	4Ω+4Ω	2Ω+2Ω	4Ω+4Ω
8"	10"		12"		
30Hz-200Hz	26Hz-200Hz		24Hz-200Hz		
150W-350W RMS	300W-750W RMS				
350W RMS (efficace) / 1000W PEAK (de crête)	750W RMS (efficace) / 2250W PEAK (de crête)				
56 oz	123 oz		144 oz		
40 mm (1.6")	65.5 mm (2.6")				
83.6 dB	83.7 dB	82.3 dB	82.8 dB	85.0 dB	84.6 dB
1.8Ω+1.8Ω	3.6Ω+3.6Ω	1.9Ω+1.9Ω	3.5Ω+3.5Ω	1.9Ω+1.9Ω	3.5Ω+3.5Ω
42 Hz	43 Hz	31 Hz	32 Hz	29 Hz	30 Hz
10.1L	10.5 L	18.2 L	18.2 L	36.9 L	32.8 L
7.69	7.08	7.07	6.50	6.32	6.51
0.52	0.58	0.5	0.52	0.44	0.55
0.48	0.53	0.47	0.48	0.41	0.51
201 cm ²		333 cm ²		479 cm ²	
12mm		20mm			
52mm		70mm		72mm	

Note: Specifications subject to change without notice

		R2-W8D2/D4	R2-W10D2/D4	R2-W12D2/D4
Sealed Box Range	Net Internal Volume	0.15-0.45 ft ³	0.4-0.85 ft ³	0.55-1.0 ft ³
Recommended Sealed Box	External Box Dimensions	13" x 13" x 5.5"	12" x 12" x 10.5"	14" x 14" x 11"
	Gross Internal Volume	0.30 ft ³	0.58 ft ³	0.85 ft ³
	Net Internal Volume	0.25 ft ³	0.50 ft ³	0.75 ft ³
	F3, Qtc	D2: 59 Hz, 0.73 D4: 59 Hz, 0.72	D2: 44 Hz, 0.70 D4: 42 Hz, 0.78	D2: 43 Hz, 0.65 D4: 39 Hz, 0.84
Vented Box Range	Net Internal Volume	0.25-0.7 ft ³	0.75-1.3 ft ³	1.0-1.5 ft ³
	Tuning	36-40Hz	35-39Hz	33-37Hz
Recommended Vented Box	External Box Dimensions	11" x 9.5" x 21"	13" x 11.5" x 25.25"	12.5" x 14" x 25.5"
	Gross Internal Volume	0.86 ft ³	1.58 ft ³	1.91 ft ³
	Vent Area (dimensions)	8 in ² (8" x 1")	15 in ² (10" x 1.5")	18.75 in ² (12.5" x 1.5")
	Vent length	17.5"	19.5"	22"
	Vent Displacement	0.13 ft ³	0.25 ft ³	0.36 ft ³
	Net Internal Volume (Vb)	0.68 ft ³	1.25 ft ³	1.45 ft ³
	F3, ripple, Fb	D2: 33 Hz, 2.5 dB, 39 Hz D4: 32 Hz, 3.2 dB, 39 Hz	D2: 29 Hz, 6.0 dB, 37 Hz D4: 29 Hz, 6.3 dB, 37 Hz	D2: 29 Hz, 4.3 dB, 36 Hz D4: 28 Hz, 5.8 dB, 36 Hz

Notes:

- 1) Recommended enclosure net internal volume is based upon 3/4" (19mm) MDF enclosure construction.
- 2) Consult the table below for alternative enclosure net internal volume calculation.

Front Mount Displacement* (magnet in)	-0.050 ft ³	-0.08 ft ³	-0.10 ft ³
Reverse Mount Added Volume* (magnet out)	+0.035 ft ³	+0.05 ft ³	+0.09 ft ³

*Based upon 3/4" (19mm) baffle thickness, with opening cut approximately to gasket inner diameter

		R2-W8D2/D4	R2-W10D2/D4	R2-W12D2/D4
Gamme Box Sealed	Net volume interne	0.15-0.45 pi ³	0.4-0.85 pi ³	0.55-1.0 pi ³
Recommended Boîte Scellé	Dimensions extérieures	13 po x 13 po x 5.5 po	12 po x 12 po x 10.5 po	14 po x 14 po x 11 po
	Volume intérieur brut	0.30 pi ³	0.58 pi ³	0.85 pi ³
	Volume intérieur Net ***	0.25 pi ³	0.50 pi ³	0.75 pi ³
	F3, Qtc	D2: 59 Hz, 0.73 D4: 59 Hz, 0.72	D2: 44 Hz, 0.70 D4: 42 Hz, 0.78	D2: 43 Hz, 0.65 D4: 39 Hz, 0.84
Gamme charge bass-reflex	Volume net interne	0.25-0.7 pi ³	0.75-1.3 pi ³	1.0-1.5 pi ³
	mise au point	36-40Hz	35-39Hz	33-37Hz
Recommended charge bass-reflex	Dimensions extérieures	11 po x 9.5" po x 21 po	13 po x 11.5 po x 25.25 po	12.5 po x 14 po x 25.5 po
	Volume intérieur brut	0.86 pi ³	1.58 pi ³	1.91 pi ³
	Aire de l'évent (dimensions)	8 po ² (8 po x 1 po)	15 po ² (10 po x 1.5 po)	18.75 po ² (12.5 po x 1.5 po)
	Longueur de l'évent	17.5 po	19.5 po	22 po
	déplacement de l'évent	0.13 pi ³	0.25 pi ³	0.36 pi ³
	Volume intérieur Net (Vb)***	0.68 pi ³	1.25 pi ³	1.45 pi ³
	F3, crête, Fb	D2: 33 Hz, 2.5 dB, 39 Hz D4: 32 Hz, 3.2 dB, 39 Hz	D2: 29 Hz, 6.0 dB, 37 Hz D4: 29 Hz, 6.3 dB, 37 Hz	D2: 29 Hz, 4.3 dB, 36 Hz D4: 28 Hz, 5.8 dB, 36 Hz

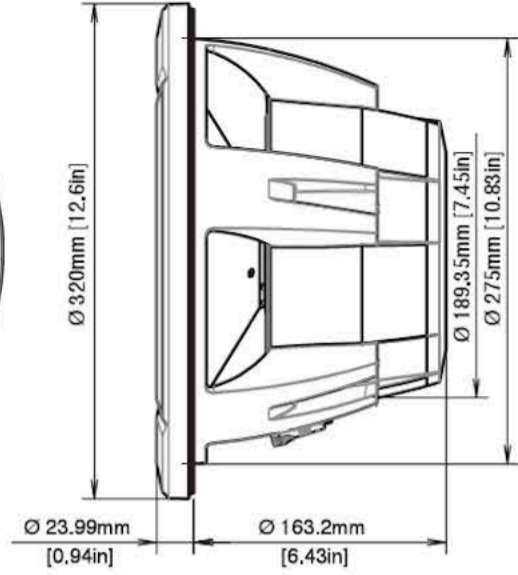
Notes:

- 1) Recommandé enceinte volume net interne est basée sur 3/4" (19mm) de construction boîtier en MDF.
- 2) Consulter le tableau ci-dessous pour le calcul de filet d'enclos alternative volume interne.

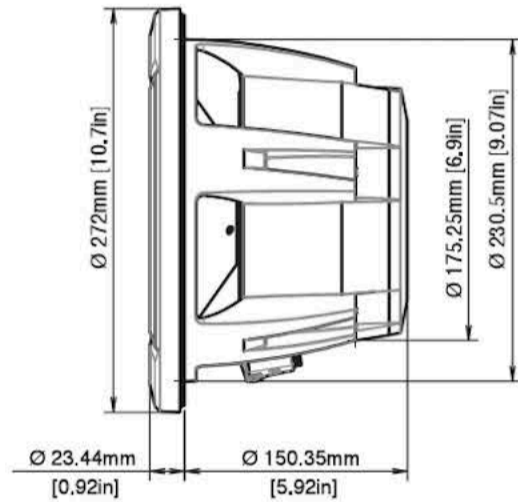
Avant le déplacement du Mont * (aimant)	-0.050 ft ³	-0.08 ft ³	-0.10 ft ³
Inverser Volume mont Ajouté * (des aimants)	+0.035 ft ³	+0.05 ft ³	+0.09 ft ³

* Sur la base de l'épaisseur du déflecteur 3/4" (19mm), avec une ouverture coupée à peu près à joint diamètre intérieur

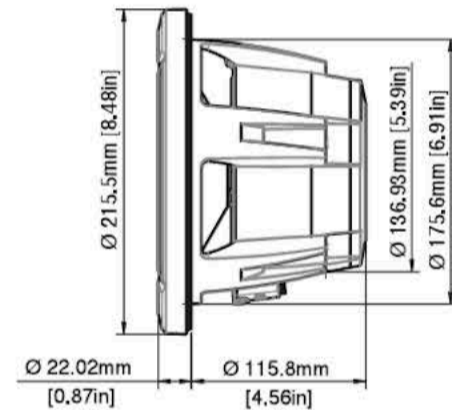
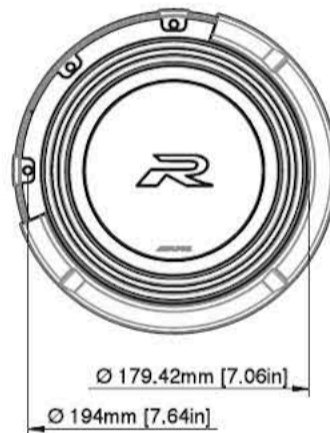
R2-W12D2
R2-W12D4



R2-W10D2
R2-W10D4



R2-W8D2
R2-W8D4



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Printed in CHINA