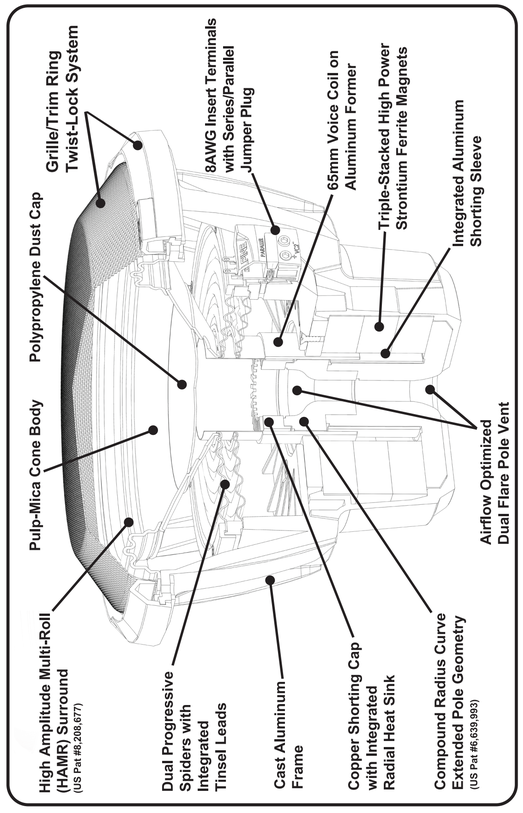

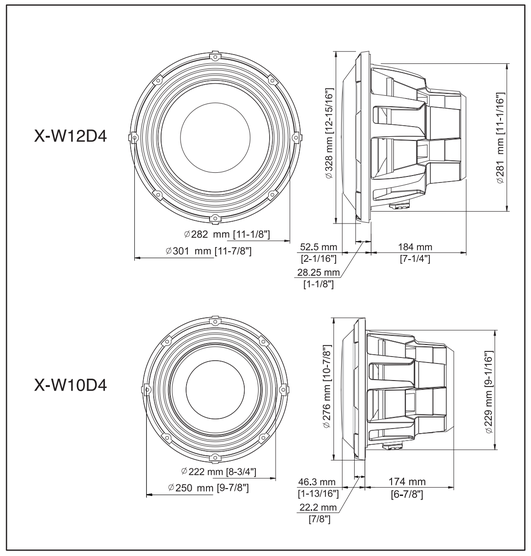

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Information on Disposal of Old Electrical and Electronic Equipment and Battery (applicable for countries that have adopted spearate waste collection systems)
If you want to dispose this product, do not mix it with general household waste. There is a separate collection system for used electronic products in accordance with legislation that requires proper treatment, recovery and recycling. Contact your local authority for details in locating a recycle facility nearest to you. Proper recycling and waste disposal will help conserve resources whist preventing detrimental effects on our health and the environment.

Information sur le traitement des Déchets Electriques et Electroniques (DEEE), pour les pays ayant adoptés un traitement séparés de ces déchets
Si vous possédez des appareils Electriques ou Electroniques usagés, ne les jetez pas dans le système général. Conformément à la Directive Européenne, transposée dans votre pays, il existe un système séparé de recyclage et de traitement de ces déchets. Veuillez contacter l'administration locale afin de prendre connaissance du lieu de recyclage et de traitement le plus proche de chez vous. Ce système est destiné à protéger l'environnement.

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

X-W12D4

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

X-W10D4

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

Single folding: 172 x 246 mm

General Specifications		
Size	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	
Thiele-Small Parameters		
Sensitivity (1W/1m)	Sensibilité (1W/1m)	*SPL*
DC Resistance	Résistance DC	*Re*
Inductance	Inductance	*Le*
Free Air Resonance	Résonance à l'air libre	*Fs*
Equivalent Stiffness	Raideur équivalente	*Vas*
Mechanical Q	Q Mécanique	*Qms*
Electrical Q	Q Électrique	*Qes*
Total Q	Q Total	*Qts*
Cone Area	Surface du diaphragme	*Sd*
Linear Excursion	Displacement Linéaire	Xmax (1-way)
Mechanical Travel	Déplacement Mécanique	Xmech (P-P)

X-Series	
X-W10D4	X-W12D4
4Ω+4ΩΩ	4Ω+4ΩΩ
10"	12"
26Hz-200Hz	23Hz-200Hz
650W-900W RMS (efficace)	
900W RMS (efficace) / 2700W PEAK (de crête)	
174 oz (x3)	
65,5 mm (2.6")	
83.3 dB	84.3 dB
3.0Ω + 3.0Ω	3.6Ω+3.6Ω
3.92 mH	4.42 mH
31 Hz	27 Hz
23 L	56 L
4.28	5.63
0.49	0.62
0.45	0.56
305 cm²	475 cm²
24 mm	
82 mm	82 mm

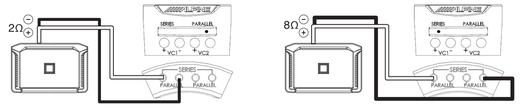
Note: Specifications subject to change without notice

APPLICATION DIAGRAMS

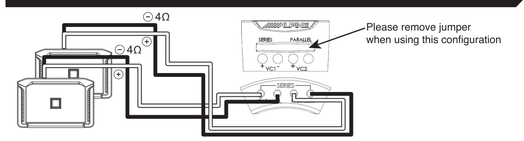
ALPINE **4Ω + 4Ω**

X-W10D4 / X-W12D4

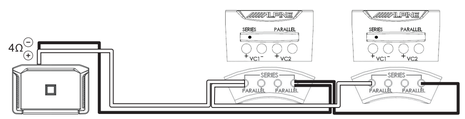
Example 1 *One Amplifier + One Subwoofer*



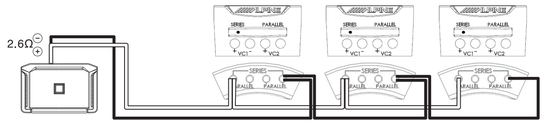
Example 2 *Two Amplifiers + One Subwoofer*



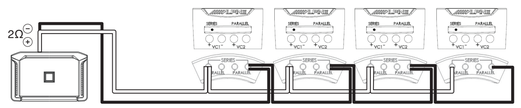
Example 3 *One Amplifier + Two Subwoofers*



Example 4 *One Amplifier + Three Subwoofers*



Example 5 *One Amplifier + Four Subwoofers*



X-Series WIRING WORKSHEET
CÂBLAGE POUR X-Series

		X-W10D4	X-W12D4
Sealed Box Range	Net Internal Volume	0.4-0.75 ft³	0.4-1.25 ft³
Recommended Sealed Box	External Dimensions (H x W X D)	12.5" x 12.5" x 11"	14" x 14" x 12.25"
	Gross Internal Volume	0.67 ft³	0.97 ft³
	Net Internal Volume	0.55 ft³	0.85 ft³
	F3, Qtc	42Hz, 0.75	36Hz, 0.99
Vented Box Range	Net Internal Volume	0.85-1.75 ft³	1.0-2.0 ft³
	Fb, Tuning	33-39 Hz	30-36 Hz
Recommended Vented Box	External Dimensions (H x W X D)	13" x 23,5" x 13"	14" x 23.5" x 14"
	Gross Internal Volume	1.68 ft³	1.98 ft³
	Vent Area (W x H)	15.0 in² (3.75 "x 4")	15.0 in² (3.75" x 4")
	Vent Length	18"	18"
	Vent Displacement	0.21 ft³	0.21 ft³
	Net Internal Volume (Vb)	1.45 ft³	1.65 ft³
	F3, ripple, Fb	28Hz, 5.6dB, 35Hz	28Hz, 5.7dB, 33Hz

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)	-0.120 ft³	-0.122 ft³
Reverse Mount Added Volume* (magnet out)	+0.030 ft³	+0.035 ft³

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

		X-W10D4	X-W12D4
Gamme Box Sealed	Volume intérieur net	0.4-0.75 pi³	0.4-1.25 pi³
Recommended Boîte Scellé	Dimensions de la boîte extérieures	12.5 po x 12.5 po x 11po	14 po x 14 po x 12.25 po
	Volume intérieur brut	0.67 pi³	0.97 pi³
	Volume intérieur Net ***	0.55 pi³	0.85 pi³
	F3,Qtc	42Hz, 0.75	36Hz, 0.99
Gamme charge bass-reflex	Volume intérieur net	0.85-1.75 pi³	1.0-2.0 pi³
	Fb, mise au point	33-39 Hz	30-36Hz
Recommended charge bass-reflex	Dimensions de la boîte extérieures	13 po x 23.5 po x 13 po	14 po x 23.5 po x 14 po
	Volume intérieur brut	1.68 pi³	1.98 pi³
	Aire de l'évent (W x H)	15.0 po² (3,75 po x 4 po)	15.0 in² (3.75 po x 4 po)
	Longueur de l'évent	18 po	18 po
	Déplacement de l'évent	0.21 pi³	0.21 pi³
	Volume intérieur Net (Vb)***	1,45 pi³	1,65 pi³
	F3, crête, Fb	28Hz, 5,6dB, 35Hz	28Hz, 5,7dB, 33Hz

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 fillet d'enclos alternative volume interne.

Avant le déplacement du Mont * (aimant)	-0.120 pi³	-0.122 pi³
Inverser Volume mont Ajouté * (des aimants)	+0.030 pi³	+0.035 pi³

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