



KAPTION
AUDIO

CL SERIES SUBWOOFER

OWNERS MANUAL & INSTALLATION GUIDE

CL 10D2

CL 10D4

CL 12D2

CL 12D4

Introduction:

Congratulations on your new purchase of Kaption Audio loudspeakers. These loudspeakers are engineered to reproduce music that is so detailed, you will hear music in a whole new dimension. State of the art technology, rigorous testing, superior materials, innovative design and painstaking quality control; all of these factors make for a truly superior product.

For the best performance we recommend you have an authorized Kaption Audio dealer install your product.

KAPTION AUDIO LOUDSPEAKERS COME WITH A ONE-YEAR PARTS AND LABOUR LIMITED WARRANTY.

Design Features:

- Custom Designed Stamped Steel Basket
- 52oz High Intensity Grade Ferrite Magnet
- Vacuum Formed Poly-Mica Cone
- 2 inch Voice Coil on Aluminum Former
- Dual 2 ohm or 4 ohm Voice Coils

CAUTION:

Extended exposure to sound pressure levels over 100db may cause permanent hearing loss.

Kaption Audio accepts no liability for any damaged or permanent hearing loss.

Limited Warranty Information:

Kaption Audio loudspeakers have a **one-year limited warranty**. This warranty covers the original purchaser of a Kaption Audio speaker, purchased from an authorized Kaption Audio dealer.

In order to receive service, proof of purchase is required stating the customers name, dealer name, product purchased and date of purchase.

Products found to be defective during the warranty period will be repaired or replaced with a product deemed to be equivalent at Kaption Audios discretion.

What is not covered

1. Any product not purchased from an authorized Kaption Audio dealer.
2. Any expense related to the removal, reinstallation or shipment of any Kaption Audio products.
3. Any Kaption Audio product that has been defaced or altered.
4. Subsequent damage to other components.
5. Damage caused by accident, abuse, improper operation, water and theft.

How to obtain service

To obtain service on a Kaption Audio product, Please return product along with original receipt to an authorized Kaption Audio dealer or call 1-866-KAPTION (527-8466)

Specifications

Model	CL-10D2	CL-10D4	CL-12D2	CL-12D4
Speaker Size	10"	10"	12"	12"
Sensitivity (1w/1m)	83.5	83.1	86.4	86.1
Power Handling (RMS/Power)	300/600	300/600	300/600	300/600
Impedance	Dual 2ohm	Dual 4ohm	Dual 2ohm	Dual 4ohm
Voice Coil Diameter	2"	2"	2"	2"
Mounting Depth	4.5"	4.5"	5.5"	5.5"
Magnet Weight	52oz	52oz	52oz	52oz

Thiele-Small Parameters

Model	CL-10D2	CL-10D4	CL-12D2	CL-12D4
Fs (Hz)	38.8	39.7	36.7	37.5
Qts	0.628	0.715	0.633	0.765
Qms	0.45	0.45	0.45	0.45
Qes	0.74	0.9	0.8	0.96
Res (ohms)	1	1.85	1	1.85
Levc (mH)	1	1	1	1
Sd (sqM)	0.0324	0.0324	0.0498	0.0498
Xmax (mm)	10	10	10	10
Dia (mm)	205	205	254	254
Vas (liter)	17.25	17.25	17.25	17.25
Mms (g)	145	138	162	155.5
Cms	116	116	116	116
BI (T*M)	6.82	8.33	6.82	8.33

Specifications subject to change without notice

Recommended Enclosures

This manual offers you two separate types of enclosures, sealed and ported. These two types of enclosures will give you different types of performance to better suit your application.

When building a sealed or ported enclosure, the most important thing to remember is that the enclosure should be airtight. You can seal all the seams with glue or any type of sealant. This should prevent any air leaks. The seams should also be nailed with finishing nails to add extra durability. We recommend you use 3/4 inch MDF (Medium Density Fiberboard) when building any enclosure.

Remember to account for all sources of volume displacements (i.e. speaker, braces and/ or ports) when calculating box size.

Calculating Enclosure Volume

$$\frac{\text{Height x Width x Depth (internal dimensions in inches)}}{1728} = \text{Volume in cubic feet.}$$

Box Recommendations

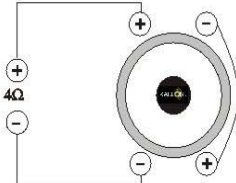
Sealed Enclosure	CL-10D2	CL-10D4	CL-12D2	CL-12D4
SPL	0.5cu.ft	0.5cu.ft	0.6cu.ft	0.6cu.ft
Musical	0.75cu.ft	0.75cu.ft	1.0cu.ft	1.0cu.ft

Ported Enclosure	CL-10D2	CL-10D4	CL-12D2	CL-12D4
SPL (cu.ft)	0.65	0.65	0.8	0.8
Port (inches)	3x12	3x10.75	3x13.25	3x10.75
Musical (cu.ft)	1.25	1.25	1.4	1.4
Port (inches)	4x15.5	4x17.5	4x15.5	4x15.5

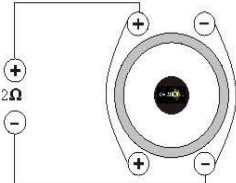
You can create an impedance load to best suit your application. You can choose to run your system in series, parallel or series-parallel to achieve the load that is suitable for your amplifier. Below is a diagram to show you different types of loads.

Wiring Diagram

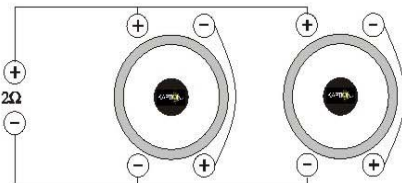
(1) 2 ohm DVC Speaker = 4ohm load



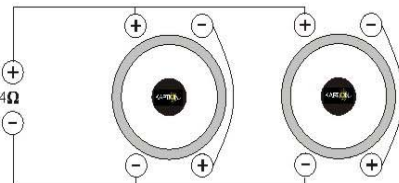
(4) 4 ohm DVC Speaker = 2ohm load



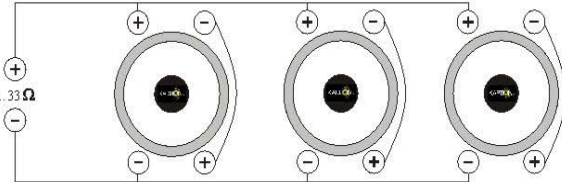
(2) 2 ohm DVC Speaker = 2 ohm load



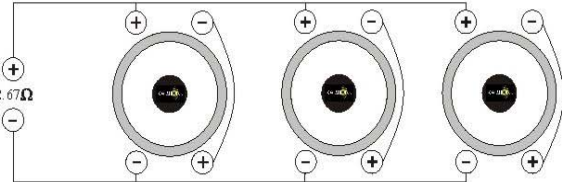
(5) 4 ohm DVC Speaker = 4 ohm load



(3) 2 ohm DVC Speakers = 1.33 ohm Load



(6) 4 ohm DVC Speakers = 2.67 ohm Load





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