



EUPHORIA

EUPHORIA : Subwoofers

EW7 8D4

EW7 10D2 / EW7 10D4

EW7 12D2 / EW7 12D4

EW7 15D4

USER MANUAL

Introduction

Congratulations on your purchase of a DB Drive state-of-the-art subwoofer. Your selection of a DB Drive car audio product indicates a true appreciation of fine musical reproduction. Whether adding to an existing system or including your DB Drive subwoofer in a new system, you are certain to notice immediate performance benefits.

Keep Your Sales Receipt

Take this time to attach your sales receipt to the manual and put in a safe place. In case of any unforeseen reason this product may need warranty service, your receipt will be necessary to establish purchase date.

Recommendation

A power subwoofer's performance is only as good as its installation. Proper installation will maximize the system's overall performance. It is recommended that you have our product installed by an authorized DB Drive retailer. However, if you decide to install it yourself, please carefully read through this manual and take your time to do a quality installation.

IMPORTANT!

Before making any connections, disconnect the car's battery until the installation is completed to avoid possible damage to the electrical system.

WARNING!

Exposure to high power sound system can cause hearing loss or damage. Listening to your system at loud levels while driving will impair your ability to hear traffic sounds and emergency vehicles. Use common sense when listening to your system.

Serial # _____ Model # _____

PRODUCT SPECIFICATIONS

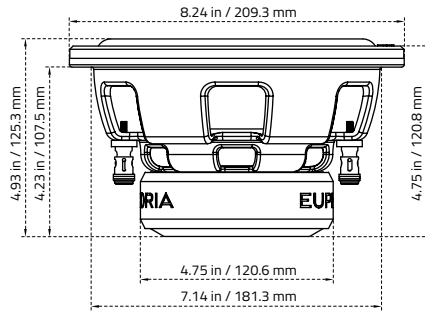
TS Specs

		EW7 8D4	EW7 10D2	EW7 10D4
Sensitivity 1W/1m)	SPL	84.31 dB	85.106 dB	86.48 dB
DC Resistance	Re	3.20 Ω x 2	2.00 Ω x 2	3.20 Ω x 2
Inductance	Le	1.113 mH	1.129mH	1.79 mH
Free Air Resonance	Fo	9.24 Hz	32.20 Hz	38.19 Hz
Equivalent Stiffness	Vas	3.44 Ltr	31.805 Ltr	26.90 Ltr
Mechanical Q	Qms	4.04	6.249	5.13
Electrical Q	Qes	0.903	0.504	0.51
Total Q	Qts	0.738	0.467	0.47
Moving Mass	Mms	51.67 g	130.854 g	109.94 g
Motor Force	BL	10.96 TM	14.508 TM	18.02 TM
Cone Surface Area	Sd	21.64 mM	34.63m sqM	34.63 mM
Linear Excursion (1-way)	Xmax	7mm	10.5mm	11mm
Mechanical Excursion	Xmech	19.5mm	28mm	28mm
Driver Displacement	Disp	0.044 cuft	0.086 cuft	0.086 cuft

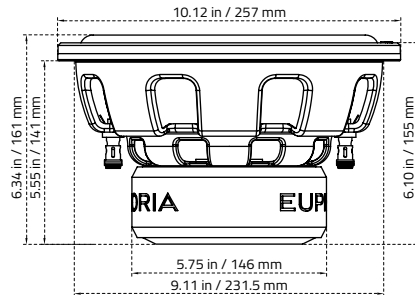
		EW7 12D2	EW7 12D4	EW7 15D4
Sensitivity 1W/1m)	SPL	86.402 dB	89 dB	87.93 dB
DC Resistance	Re	1.99 Ω x 2	3.20 Ω x 2	3.20 Ω x 2
Inductance	Le	1.128mH	1.272 mH	1.75 mH
Free Air Resonance	Fo	28.356 Hz	31.747 Hz	27.64 Hz
Equivalent Stiffness	Vas	71.162 Ltr	68.802 Ltr	146.177 Ltr
Mechanical Q	Qms	6.673	6.119	4.94
Electrical Q	Qes	0.572	0.498	0.765
Total Q	Qts	0.527	0.46	0.663
Moving Mass	Mms	166.543 g	137.428 g	235.54 g
Motor Force	BL	14.389 TM	18.788 TM	18.56 TM
Cone Surface Area	Sd	51.472m sqM	51.472 mM	85.530 mM
Linear Excursion (1-way)	Xmax	10.5mm	11mm	11mm
Mechanical Excursion	Xmech	28mm	28mm	28mm
Driver Displacement	Disp	0.126 cuft	0.126 cuft	0.216 cuft

MECHANICAL MEASUREMENTS

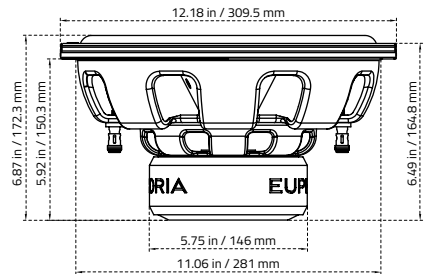
EW7 8D4



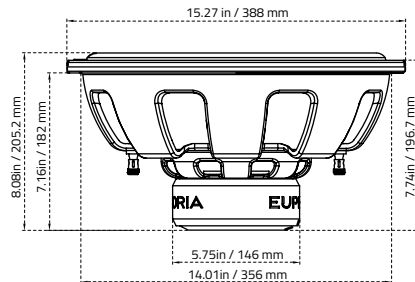
EW7 10D2 / EW7 10D4



EW7 12D2 / EW7 12D4



EW7 15D4



CALCULATING ENCLOSURES

It is difficult to give exact box dimensions that are universal for all cars and trucks. It is for this reason that you must be able to calculate the space in which you have available in order to achieve the proper air volume required.

It is recommended to build your enclosure from 3/4" thick MDF (medium density fiberboard). Make sure the enclosure is sealed airtight.

Calculating External Volume

To calculate box volume, measure the outside Width x Height x Depth of the enclosure. *Example 12" x 14" x 9" = 1512 ÷ 1728" Cubic feet*

Next you must convert cubic inches into cubic feet. To do this, you must divide the cubic inches total by 1728". *Example 1512 ÷ 1728 = .875 Cubic feet*

Calculating Internal Volume

To calculate the internal (net) volume of the above box you must first multiply the thickness of the wood you are using by Two(2). *Example 3/4" x 2 = 1.5"*

Next subtract 1.5 from each of the outside measurements of the box.

Width	Height	Depth
12 - 1.5 = 10.5	14 - 1.5 = 12.5	9 - 1.5 = 7.5

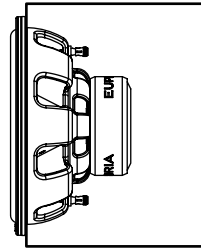
Multiply the new totals (H x W x D) *Example: 10.5 x 12.5 x 7.5 = .5696*

Next you must convert cubic inches into cubic feet. To do this, you must divide the cubic inch total by 1728". *Example 984.375 ÷ 1728 = .5696 cubic feet.*

RECOMMENDED ENCLOSURES

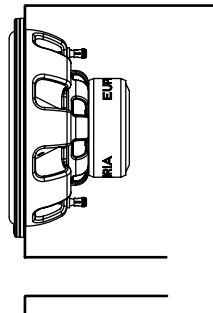
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Sealed Box Range	.54 - .15 cuft
Recommended Sealed Box	.54 cuft
External Box Dimensions	10" W x 10" H x 9" D
Gross Internal Volume	.54 cuft
Net Internal Volume	.48 cuft



EW7 8D4

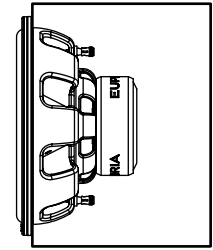
Vented Box Range	.5 - .8 cuft
Recommended Vented Box	.63 cuft
External Box Dimensions	15" W x 10" H x 11" D
Gross Internal Volume	.63 cuft
Net Internal Volume	.58cuft
Vent dimensions	2 x 8" Diameter
Vent surface area	3.14in ²
vent length	8"
vent tuning	38Hz



RECOMMENDED ENCLOSURES

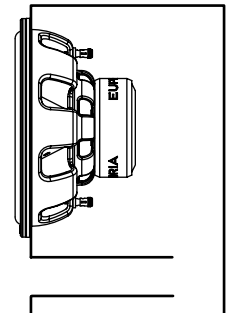
EW7 10D4 / 10D2

Sealed Box Range	1.1 - 1.3 cuft
Recommended Sealed Box	1.14 cuft
External Box Dimensions	16.5" W x 13" H x 13" D
Gross Internal Volume	1.14 cuft
Net Internal Volume	1.07 cuft



EW7 10D4 / 10D2

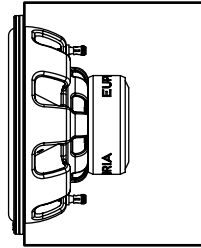
Vented Box Range	1.3 - 1.75 cuft
Recommended Vented Box	1.54 cuft
External Box Dimensions	20" W x 13" H x 14" D
Gross Internal Volume	1.53 cuft
Net Internal Volume	1.35 cuft
Vent dimensions	4" Diameter
Vent surface area	12.57in ²
vent length	15"
vent tuning	39Hz



RECOMMENDED ENCLOSURES

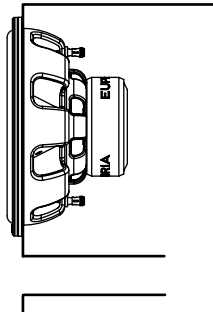
EW7 12D4 / 12D2

Sealed Box Range	1.25 - 1.75 cuft
Recomended Sealed Box	1.5 cuft
External Box Dimentions	14" H x 19.5" W x 13" D
Gross Internal Volume	1.50 cuft
Net Internal Volume	1.39 cuft



EW7 12D4 / 12D2

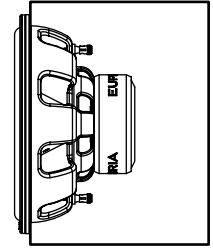
Vented Box Range	1.4 - 2 cuft
Recomended Vented Box	1.78 cuft
External Box Dimentions	22" W x 14" H x 13.5" D
Gross Internal Volume	1.75 cuft
Net Internal Volume	1.58 cuft
Vent dimentions	4" Diameter
Vent surface area	12.57 in ²
vent length	12"
vent tuning	38Hz



RECOMMENDED ENCLOSURES

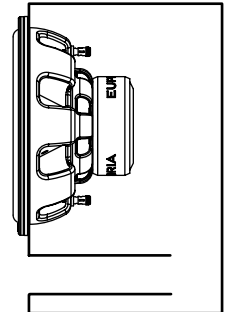
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Sealed Box Range	2.5 - 3.5 cuft
Recomended Sealed Box	2.7 cuft
External Box Dimentions	21" W x 18" H x 6" D
Gross Internal Volume	2.7 cuft
Net Internal Volume	2.5 cuft

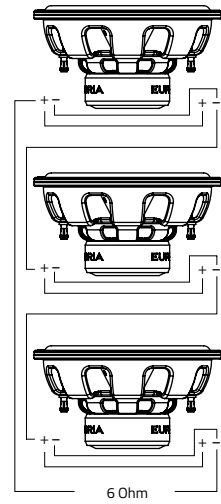
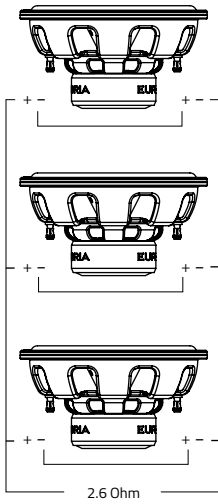
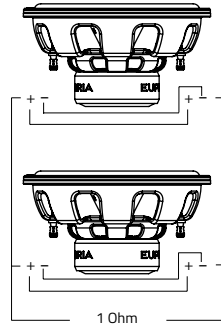
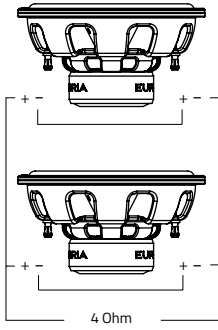
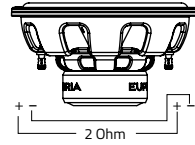
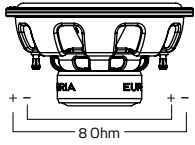


EW7 15D4

Vented Box Range	3 - 4 cuft
Recomended Vented Box	3.4 cuft
External Box Dimentions	23.5" W x 18" H x 18" D
Gross Internal Volume	3.4 cuft
Net Internal Volume	3.10 cuft
Vent dimentions	2 x 4" Diameter
Vent surface area	25.14 in ²
vent length	12"
vent tuning	36Hz



WIRING DIAGRAMS



NOTES

LIMITED WARRANTY

DB Drive warrants any products purchased in the U.S.A. from an authorized DB Drive dealer. All products are warranted to be free from defects in material and workmanship under normal use and service for a period of one (1) year. This warranty applies to the original purchase only.

DB Drive will either repair or replace (as its option) any unit that has been found to be defective and under warranty provided the defect occurs within the one (1) year warranty period.

This limited warranty does not extend to units have been subjected to misuse, abuse, neglect, or accident. In DB Drive's judgment, products that show evidence of having been altered, modified, or serviced without DB Drive's authorization, will be ineligible under this warranty.

To obtain warranty service please contact your retailer or visit our website at www.dbdrive.net for more details.



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