



DIAMOND

D3.2

SUBWOOFER INSTALLATION MANUAL

D308D4.2 | D310D2.2 | D310D4.2 | D312D2.2 | D312D4.2 | D315D2.2 | D315D4.2

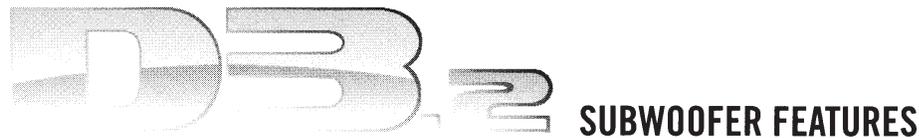
Dear Valued Customer,

Thank you for choosing Diamond Audio D3 subwoofers. These speakers represent the latest advances in acoustic technology, and like all Diamond Audio products, are hand built and tested using the highest grade components and state of the art techniques. When installed properly, they will provide many years of accurate sound reproduction.

Please keep in mind that prolonged exposure to sound pressure levels in excess of 100 dB can cause permanent hearing loss. This high performance speaker system can exceed that level, so please exercise restraint in its operation in order to preserve your ability to enjoy its fidelity in the future.

Because of their flexible installation possibilities, please consider having your new speakers professionally installed by an authorized Diamond Audio dealer. This will assure a clean and efficient installation, and extend your one year warranty to three years.

At Diamond Audio, we strive to bring honest value and excellent quality to all of the products we build. By your purchase of this product, you have joined the growing family of discerning listeners who demand only the best. Welcome!

The logo features the letters 'DB2' in a large, bold, metallic font with a 3D effect and a horizontal shadow. To the right of 'DB2', the words 'SUBWOOFER FEATURES' are written in a smaller, bold, sans-serif font. A horizontal line runs across the page below the logo.

DB2 SUBWOOFER FEATURES

Textured Copolymer Cone with Aluminum Dust Cap

Nitrile Butadine Rubber (NBR) Surround

Heavy Gauge Stamped Steel Basket

Integrated Tinsel Leads

Venturi Vented Basket

Vented Pole Piece

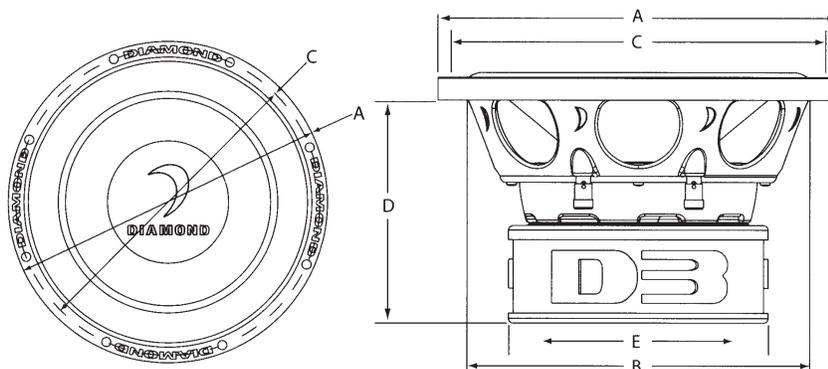
Double Stacked Ferrite Magnet

Optimized Spider with Balanced Linear Suspension

2.5" Voice Coils

PHYSICAL DIMENSIONS

Dimension (in./mm)	D308	D310	D312	D315
Total Diameter (A)	8.65 in. (220 mm)	10.35 in. (263 mm)	12.4 in. (315 mm)	15.3 in. (389 mm)
Mounting Diameter (B)	7.38 in. (187 mm)	9.25 in. (235 mm)	11.2 in. (285 mm)	11.2 in. (342 mm)
Screw Hole Diameter (C)	7.8 in. (198 mm)	9.8 in. (249 mm)	11.8 in. (300 mm)	11.2 in. (370 mm)
Mounting Depth (D)	4.25 in. (108 mm)	6.5 in. (166 mm)	6.7 in. (169 mm)	11.2 in. (196 mm)
Magnet Diameter (E)	5.8 in. (147 mm)	6.7 in. (169 mm)	6.7 in. (169 mm)	11.2 in. (169 mm)
Displacement	0.0325 ft ³ (0.92 L)	0.0596 ft ³ (1.68 L)	0.0784 ft ³ (2.22 L)	0.1053 ft ³ (2.98 L)



THIELE/SMALL PARAMETERS

Parameter (unit)	D308D4	D310D2	D310D4	D312D2	D312D4	D315D2	D315D4
SPL (dB)	83.1	84.9	85.1	86.9	86.3	89.2	88.7
Re (Ω) [series]	6.8	3.4	6.4	3.4	6.4	3.4	6.4
Qms	5.998	5.733	4.766	5.494	4.967	5.769	6.024
Qes	0.63	0.534	0.558	0.562	0.636	0.530	0.681
Qts	0.57	0.489	0.499	0.510	0.564	0.486	0.612
Fs (Hz)	49.04	38.070	38.070	32.676	33.948	25.010	25.984
Vas (L)	7.4	19.370	21.465	50.722	51.139	181.543	186.879
Cms (mm/N)	0.132	0.113	0.126	0.126	0.127	0.171	0.176
Mms (g)	79.978	153.706	138.706	187.034	172.034	237.386	213.647
Sd (m ²)	0.020	0.034	0.034	0.053	0.053	0.087	0.0866
BL (T*M)	16.6	15.297	19.514	15.239	19.212	15.691	18.103
Xmax (mm)	8.15	11.9	11.9	11.9	11.9	11.9	11.9
Pwr (W) NOM/MAX	200/400	400/800	400/800	400/800	400/800	400/800	400/800

ENCLOSURE

The enclosures specified below are offered as a suggestion only. Assistance from an authorized Diamond Audio retailer is recommended for designing the correct system for your vehicle. All volumes below are shown as net internal volumes, driver and vent displacement have not been accounted for. The use of a 30Hz sub-sonic filter is recommended on most vented enclosures.

Sealed	D308	D310	D312	D315
Vb (ft ³)	0.5	0.5	1.0	1.75
F3 (Hz)/QTC	60/0.7	40/0.7	41/0.88	33/0.88
Pe (W)	200	400	400	400
Vented				
Vb (ft ³)	1.0	1.5	2.0	2.75
Fp/F3 (Hz)	45/34	38/26	35/29	33/27
Port (in.) [dia. x length]	3" x 7.5"	3" x 9"	4" x 13"	4" x 12"
Pe (W)	200	400	400	400

LIMITED SPEAKER WARRANTY STATEMENT

Diamond Audio Technologies, LLC (DAT) warrants this product to be free from defects in material and workmanship for a period of one (1) year from the original date of purchase provided it was purchased from an authorized DAT retailer within the United States. However, if this product was installed by the authorized DAT retailer, the warranty period will be extended to three (3) years.

THIS WARRANTY IS NOT TRANSFERABLE AND APPLIES ONLY TO THE ORIGINAL PURCHASER OF THIS PRODUCT IN ITS ORIGINAL INSTALLATION. Original purchaser must reside in the United States and be able to provide proof of purchase and installation with the sales receipt from the authorized DAT retailer that sold and installed the product.

Should a manufacturing defect occur during above said warranty period, DAT will replace or repair the defective product with a product of the same or equivalent value and performance.

Damage or failure caused by any of the following is not covered under this warranty policy: negligence, improper use, abuse, product modification, unauthorized repair attempts, accident, acts of God, misrepresentations by DAT retailers, and improper/inadequate packaging during return shipping.

Warranty is void if serial numbers have been removed, altered or defaced.

HOW TO OBTAIN WARRANTY SERVICE

In the event a DAT product should require service, you should visit the authorized DAT retailer you purchased the product from and they can expedite your claim. All claims must fall into the guidelines listed above and be accompanied by a copy of the original sales and installation receipt from that authorized DAT retailer.

Product returned for warranty service must be freight-prepaid, properly packaged and clearly marked with the Return Authorization (RA) number issued by DAT. Any product returned to DAT that is improperly packaged, does not have a RA number clearly marked on the package, or never received a RA number may be refused upon delivery. DAT does not assume responsibility for lost or misdirected product.

Repair or replacement under this warranty is the exclusive remedy of the consumer. DAT shall not be liable for any incidental or consequential damages for breach of any expressed or implied warranty on this product. Some states do not allow the exclusion or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights that may vary from state to state.

Customers outside the United States should contact their local sales office to obtain information on pricing, exchange unit availability, instructions, service and warranty/non-warranty replacement or repair.



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