

SPECIFICATIONS

Titanium Elite 12d

Mounting Donth

Mounting Depth	10.5 111
Mounting Diameter	
Overall Diameter	
Speaker Displacement:	
Frequency Response	20Hz to 80Hz
Frequency Response Nominal Impedance per Coil	
	4 Ohms
Nominal Impedance per Coil	

Enclosure Recommendations

Sealed		Vented				
	<u>Vb</u>	<u>F3</u>	<u>Vb</u>	<u>Vd</u>	<u>VI</u>	<u>Fb</u>
Musical	1.6	33Hz	2.75	4"	15"	25Hz
SPL	1.0	36Hz	2.25	4"	11"	31Hz

^{*}Above enclosures include the driver displacement of .2 cu. ft.

T/S Parameters:

1/3 Faraillelei3.	
Fs	
Re	1.42 Ohms
Qms	
Qes	
QIS	
Vas	
Mms	
Cms	
Vas	34.1 Tesla-M
SPL (2.83V)	
Sd	
Xmax (p-p)	

LIMITED WARRANTY

Phoenix Gold International, Inc. (or "Phoenix Gold") warrants its products against defects in materials and workmanship for a limited period of time.

For a period of 90 days from date of original purchase, we will repair or replace the product at our option, without charge for

For a period of 90 days from date of original purchase, we will repair or replace the product, at our option, without charge for parts and labor. Customer must pay all parts and labor charges after the limited warranty period expires. The limited warranty period for factory refurbished products expires after ninety (90) days from date of original purchase. This limited warranty applies only to purchases from authorized Phoenix Gold Electronics/Speaker retailers.

This limited warranty is extended only to the original purchaser and is valid only to consumers in the United States. Consumers are required to provide a copy of the original sales invoice from an authorized Phoenix Gold dealer when making a claim against this limited warranty. This limited warranty only covers failures due to defects in materials or workmanship that occur during normal use. It does not cover failures resulting from accident, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, modification, service by anyone other than Phoenix Gold, or damage that is attributable to Acts of God. It does not cover costs of transportation to Phoenix Gold or damage in transit.

This warranty will become void if the serial number identification has been wholly or partially removed, altered or erased. Repair or replacement under the terms of this warranty does not extend the terms of this warranty. Should a product prove to be defective in workmanship or material, the consumer's sole remedies will be repair or replacement as provided under the terms of this warranty. Under no circumstances shall Phoenix Gold be liable for loss or damage, direct, consequential or incidental, arising out of the use of or inability to use the product. There are no express warranties other than described above.



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PHOENIX GOLD.



Titanium Elite 12d High Excursion Subwoofer

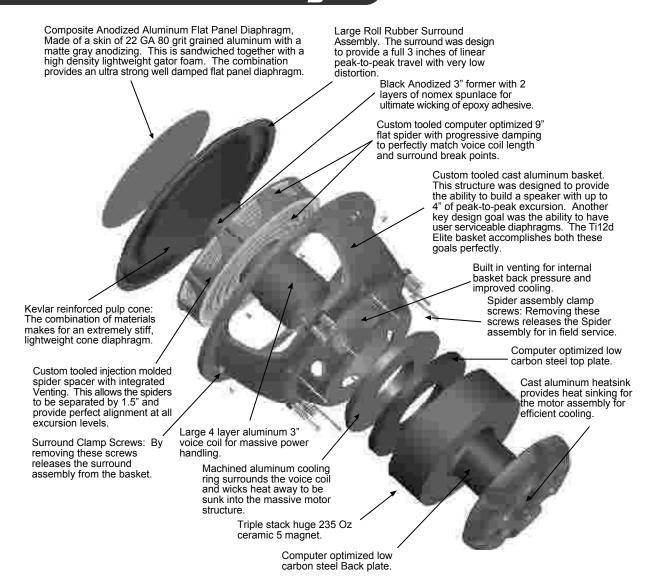
FEATURES

* For complete manuals, technical tips, FAQ's, system diagrams and new product information visit us 🏻 🧲

- Hybrid Flat Panel Aluminum Diaphragm with three Blue LEDs
- Custom Tooled Deep Cast Aluminum Basket
- · User replaceable Cone, Coil and Spider Assembly
- T rue 3" of Peak-to-Peak Excursion
- Dual 4 ohm 3" Aluminum Four Layer High Temperature Voice Coil
- Black Anodized Aluminum Former
- Integrated Aluminum Cooling Ring
- Cast Aluminum Back Plate Heat Sink
- Large Roll Rubber Surround
- 1200 Watts Continuous Power Handling
- Dual 9" Custom Tooled Spiders
- Custom Tooled Vented Spider Spacer
- T riple Stack 235 Oz Magnet

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Speaker Anatomy



Speaker Design

The Ti12d Elite is a radical new subwoofer design that integrates many levels of design and performance. Its museum level cosmetics, aerospace materials and user friendly serviceability add up to a superb sounding subwoofer with amazing output capabilities.

Materials:

The Ti12d Elite woofer features a custom cast aluminum basket that gives the ability to design a speaker with as much as 4 inches of peak-to-peak excursion. The unique ABS injection molded spider spacer is color matched to the basket and spaces custom tooled 9" spiders 1.5" apart for perfect dynamic alignment. The diaphragm assembly is hybrid blend of high density foam laminated to a grained and anodized aluminum skin. Our exclusive Ultra-Bright Tri-LED assembly highlights the massive excursion capability of the driver and offers a unique cosmetic dressing to the cone body.

Design and Applications:

The Ti12d Elite subwoofer is designed to compete at all levels of the high-end of the car audio market. The driver is not limited to only SPL applications. In fact, the design goal was to develop a sound quality subwoofer that is capable of very high output. Many features built in to the Ti12d Elite subwoofer like a 3" voice coil and integrated aluminum heat sink also allow it to be driven with massive amounts of power. We recommend at least 1000 watts of continuos power to drive the subwoofer appropriately.

Flexibility:

The Ti12d Elite is one of the only subwoofers available for the car audio market that has a user serviceable diaphragm. By removing screws on the underside of the basket holding in the spider and surround, the entire moving diaphragm assembly can be removed and replaced. This gives the customer the ability to purchase an assembly optimized for different amplifiers and speaker enclosures. Also, if in the unlikely event that the voice coil should fail, the entire assembly can be fixed in the field immediately. More information on replaceable diaphragms can be found at your local phoenix gold dealer.

Enclosure Recommendations

The Titanium Elite 12d subwoofers are overengineered and overbuilt in virtually every way conceivable. Its very important that the enclosure is built to these same exacting standards. The enclosure MUST be comprised of 1 inch MDF or two separate 3/4 inch MDF layers. A single layer of 3/4 inch MDF is not recommend due to the intense internal combustion chamber and weight of the driver. Internal crossbracing is highly recommended for further enclosure rigidity. Screws or air staples are excellent construction fasteners when used with a strong bonding "yellow" wood working glue that can fill joint gaps. Be sure that the enclosure's panels are airtight at all joining seams. Lining the walls with a polyester matting 1 to 3 inches thick is sufficient.

Your PG dealer has extensive knowledge, tools and the experience needed for the design and construction necessary for your Titanium Elite woofer application. We also recommend you consult with your dealer for specific detailed technical assistance related yo your installation.

The charts provided should be used as a reference when building an enclosure for your Titanium Elite 12d woofer. The charts contain several enclosure types. The Sound Quality enclosure provides deeper, tighter, and more musical output to truly reproduce the original source material. While the SPL fits the basshead's needs of maximum output while sacrificing some sound quality.

Enclosure Recommendations

Sealed			Vented			
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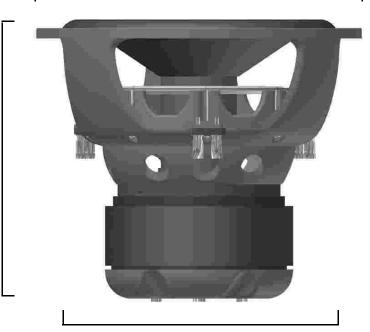
WARNING

PLEASE READ THE SECTION BELOW CONCERNING THE PROPER WIRING AND LED CONNECTIONS

Mounting Dimensions

Titanium Elite 12d LED Wiring

The Titanium Elite 12d has three input terminals. The terminal located directly under the LEDs is used to power the LEDs. The other two terminals are used to wire the individual voice coils. DO NOT WIRE THE AMPLIFIER'S SPEAKER OUTPUTS TO THE SPEAKER'S LED INPUT.



Depth: 10.5

Mounting

Overall Diameter: 13.25 in

Mounting Diameter: 11.5 in

