

SPECIFICATIONS

TantrumX Subwoofers

	<u>10/10d</u>	<u>12/12d</u>
Mounting Depth	5 ²⁶ / ₃₂ in	6 ⁶ /32 in
Mounting Diameter	9 ⁷ /32 in	
Overall Diameter	10 ¹³ / ₃₂ in	
Peak Power Handling	550 Watts	600 Watts
RMS Power Handling	300 Watts	

TantrumX 10

T/S Parameters
Fs
Re
Qms
Qes
Qts
Vas
Mms
Cms
BL
SPL (1W/1M)85 df
Sd
Xmax (field)

TantrumX 10d

T/S Parameters
Fs
Re
Qms
Qes
Qts
Vas
Mms
Cms
BL
SPL (1W/1M)85 dB
Sd
Xmax (field)

TantrumX 12

T/S Parameters	
Fs	30.26 Hz
Re	
Qms	
Qes	
Qts	
Vas	
Mms	169.71 grams
Cms	163 uM/Newton
BL	14.76 Tesla-M
SPL (1W/1M)	87 dB
Sd	531 sq cm
Xmax (field)	
,	

TantrumX 12d

T/S Parameters

Fs	 	338 Hz
Re	 	7.24 Ohms
Qes	 	0.58
Vas	 	56.84 liters
Cms	 	142 uM/Newton
BL	 	.20.51 Tesla-M
SPL (1W/1M)	 	
94		531 sq.cm

Due to ongoing to research, specifications are subject to change

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 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. The warranty is extended to 2 years from date of purchase if installed by an authorized Phoenix Gold dealer. 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.



TantrumX 10 and 12 inch High Excursion Subwoofers

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Features * For complete manuals, technical tips, FAQ's, system diagrams and new product information visit us 🛭 🥿

Custom Tooled Injection Molded Tantrum Heat-Sink Dust Cap

Integrated Ultra-Bright Blue LED Power Indicator

Injection Molded Grained Polypropylene Cone

Four Layer 2 Inch Voice Coil

High Temperature Aluminum Former

Injection Molded Rubber Mounting Gasket

Heavy Duty Cast Aluminum Basket

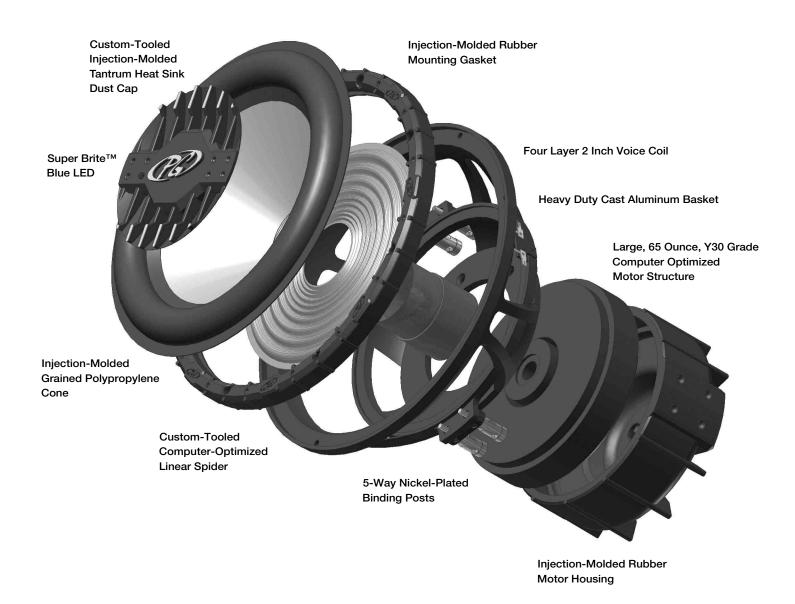
Injection Molded Rubber Motor Housing

Five-Way Nickel Plated Binding Posts

Custom Tooled Computer Optimized Linear Spider

Robust 65 Ounce Y30 Grade Computer Optimized Motor Structure

Speaker Anatomy



Speaker Design

The *TantrumX* subwoofer was developed from the ground up to compliment the amazing performance of our Tantrum Series amplifiers. Utilizing cutting edge design techniques, we can deliver a woofer that has an impressive peak to peak linear field excursion of up to 32mm. The injection-molded Tantrum heat sink dust cap in conjunction with the injection-molded polypropylene

cone provides exceptional musicality at very high drive levels. All of the motor and suspension parts have been computer optimized to provide symmetrical driving force in both directions. This translates into very low distortion and exceptional output even as your amplifier is running out of steam.



Enclosure Information

The *TantrumX* subwoofers are over-engineered and overbuilt in virtually every way conceivable. It's very important that the enclosure is built to these same exacting standards. The enclosure must be made of .75 inch MDF. 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 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 *TantrumX* subwoofer application. We also recommend you consult with your dealer for specific technical assistance related to your installation. The charts provided should be used as a reference when building an enclosure for your *TantrumX* subwoofer.

The charts contain several enclosure types. The Musical enclosure provides deeper, tighter and higher quality output to provide a more accurate reproduction of the original source material. The SPL enclosure, on the other hand, fits the basshead's needs of maximum output while sacrificing some sound quality.

Enclosure Recommendations

<u>10/10d</u> <u>12/12d</u>

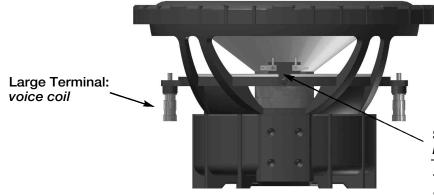
Sea	aled			Ver	nted				Sea	iled			Ver	nted		
	ume ft³		ume t ³		ort neter		ort igth			ume t ³		ume ft³	,	ort neter	,	ort ngth
10	10d	10	10d	10	10d	10	10d		12	12d	12	12d	12	12d	12	12d
.7	.7	.85	.85	2"	2"	10"	9″	Musical	1.35	1.45	2	2.1	4"	4"	13″	11.5"
.5	.6	.85	.85	3″	3″	12″	12"	SPL	.9	.85	1.6	1.7	4"	4"	9″	7.5″

^{*}The above enclosures includethe driver displacement.

TantrumX Woofer Dimensions

	10/10d	12/12d
Mounting Depth	5 13/16 in	6 3/16 in
Mounting Diameter	9 7/32 in	11 3/16 in
Overall Diameter	10 13/32 in	12 7/8 in

LED Instructions



Small Terminal: LED power

+ = Switched 12 Volt Power

= Ground

^{*}The above enclosures includethe driver displacement.