

PHOENIX GOLD®



Octane-R 15 inch High Excursion Subwoofer

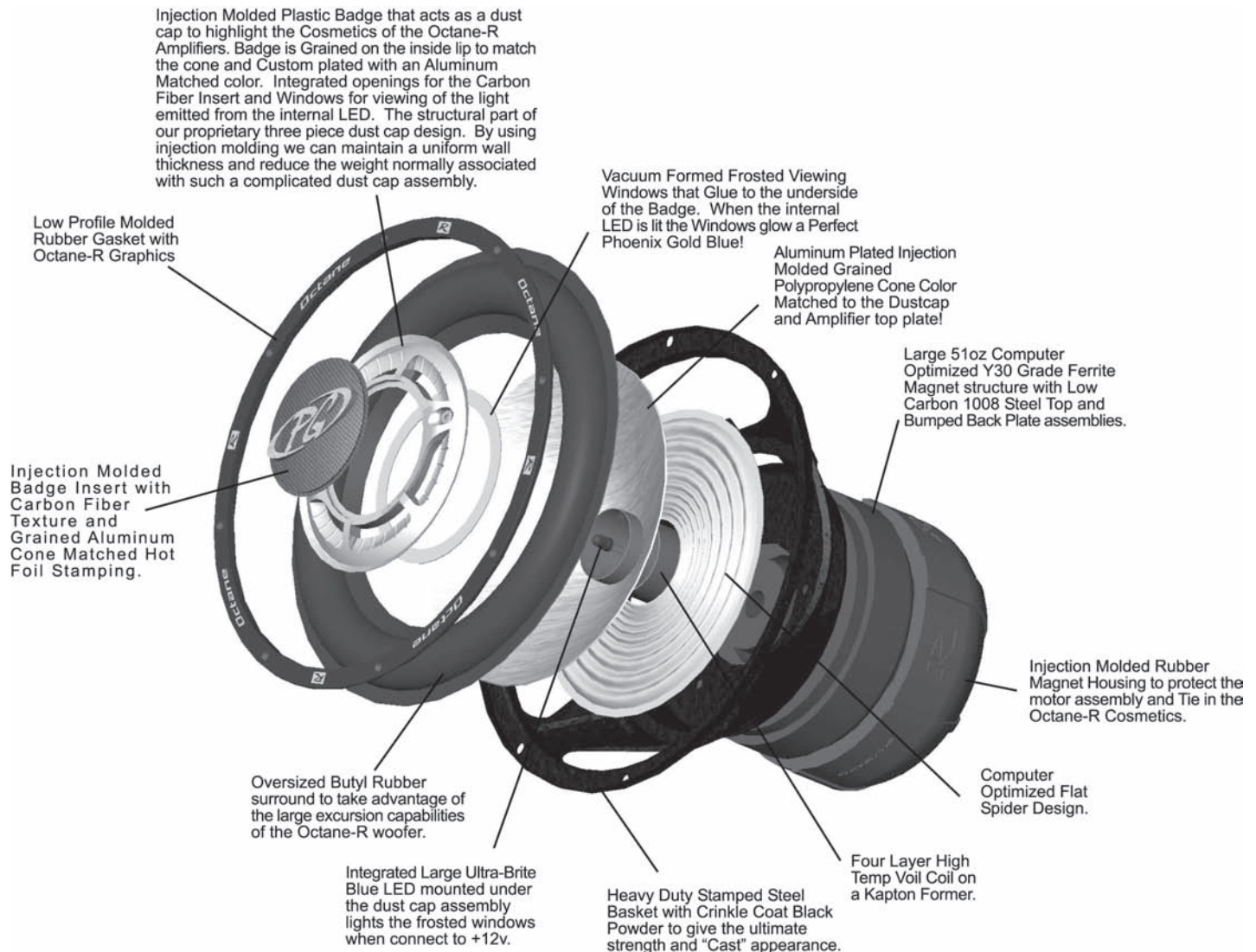
FEATURES

• For complete manuals, technical tips, FAQ's, system diagrams and new product information visit us @

- Custom Tooled Injection Molded Octane-R 3 Piece Dust Cap with Carbon Fiber Inlay
- Integrated Ultra-Bright Blue LED Back light
- Injection Molded Aluminized Grained Polypropylene Cone
- Single Four Ohm Four Layer 50mm Voice Coil
- High Temperature Kapton Former
- Injection Molded Rubber Low Profile Top Gasket
- Heavy Duty Stamped Steel Basket with Black Crinkle Coat
- Injection Molded Rubber Motor Housing
- Custom Tooled Computer Optimized Linear Spider
- Robust 51 Ounce Y30 Grade Computer Optimized Motor Structure

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Speaker Anatomy



Speaker Design

The Octane-R subwoofer was developed from the ground up to compliment the amazing performance of our Octane-R Series amplifiers. Utilizing cutting edge design techniques, we can deliver a woofer that has an impressive peak to peak field excursion of up to 25mm. Coupled to a one piece 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 Octane-R subwoofers are over engineered 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 .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'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 Octane-R 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 Octane-R subwoofer. 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

15

	<i>Sealed</i>	<i>Vented</i>	
	<i>volume ft³ (L)</i>	<i>volume ft³ (L)</i>	<i>port diameter length (mm)</i>
	15	15	15
Musical	3.0 (85)	5.0 (141.6)	2 x 4" 10.9" (277)
SPL	1.0 (28.4)	3.0 (85)	2 x 4" 11" (280)

*The above enclosures include the driver displacement.

Octane-R Woofer Dimensions

	15
Mounting Depth	7 1/2 in (190.5mm)
Mounting Diameter	13 3/4 in (349.25mm)
Overall Diameter	15 1/4 in (387.4mm)

LED Instructions

Flying wires: LED Power

+ (red) = Switched 12 Volt Power
- (black) = Ground



Large Terminal:
Voice Coil



Octane-R High Excursion Subwoofers

SPECIFICATIONS

Octane-R15 Subwoofer

Mounting Depth	7 1/2 in (190.5mm)
Mounting Diameter	13 3/4 in (349.25mm)
Overall Diameter	15 1/4 in (387.4mm)
Peak Power Handling	800 Watts
RMS Power Handling	400 Watts
Vdd (Driver Displacement)	0.19ft ³ (5.4L)

Octane-R15

T/S Parameters

Fs	27.84 Hz
Re	4.14 Ohms
Qms618
Qes060
Qts055
Vas	153.26 liters
Mms	206.06 grams
Cms	159 uM/Newton
BL	15.72 Tesla-M
SPL (efficiency)	91 dB
Sd	829.58 sq cm
Xmax (field)	28mm 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 1 year 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.

PHOENIX GOLD

PHOENIX GOLD INTERNATIONAL

9300 North Decatur

Portland, OR 97203

Tel: 503.286.9300

Fax: 503.978.3380

www.phoenixgold.com