



PHOENIX GOLD



Subwoofer Manual

Models: RX2 12D, RX2 12S
RX2 10D, RX2 10S

Features

- 25mm of Peak to Peak Excursion
- Dual or Single 4 Ohm Voice Coil Models
- 12" or 10" versions with hidden screw surround
- High Excursion CAE/CAD Motor Design
KlaraForm Vented Kapton Former technology reduces distortion by reducing heat and resistance
- UNICAP Technology provides a stiff piston for pronounced SPL
- Phoeniroll Surround Technology promotes linear motion
- Torriform Voice Coil Technology: Effectively dissipates heat and minimizes distortion
- Nickel Plated 12 Gauge Speaker Terminal
- Optimized for Sealed or Vented Enclosures
- Powder Coated Anti-Resonant Steel Basket

Enclosures

ENCLOSURE INFORMATION

Phoenix Gold subwoofers are over engineered and overbuilt in virtually every way conceivable. It is important that the subwoofer's enclosure is built to these same exacting standards. The enclosure must be constructed of at least .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. RX2 subwoofers have vented pole pieces, we recommend leaving a minimum of 0.5" clearance behind the subwoofer to allow proper air movement and cooling of the voicecoil.

Your PG dealer has extensive knowledge, tools and the experience needed for the design and construction necessary for your 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 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. The SPL enclosure fits the "bashead's" need for maximum output while sacrificing some sound quality.

Enclosure recommendations

SEALED	RX2 10s	RX2 10d	RX2 12s	RX2 12d
Rock / Punchy Bass (cu. Ft.)	0.5	0.5	1.0	1.0
Neutral / Good All Around	0.75	0.75	1.25	1.25
Hip Hop / Low Bass / (cu. Ft.)	1.0	1.0	1.4	1.4

VENTED - Rock / Punchy Bass @ 40Hz	RX2 10s	RX2 10d	RX2 12s	RX2 12d
(cu. Ft.)	1.5	1.5	2	2
Vent Area (sq in)	15.625	15.625	21.75	21.75
Vent Length (in)	14	14	14	14

VENTED - Hip Hop / Low Bass @ 35Hz	RX2 10s	RX2 10d	RX2 12s	RX2 12d
(cu. Ft.)	1.6	1.6	2	2
Vent Area (sq in)	15.625	15.625	21.75	21.75
Vent Length (in)	18	18	20	20

* For SQ vented enclosures a subsonic filter set at 25Hz is highly recommended.

Enclosure recommendations already include driver and / or port displacement.

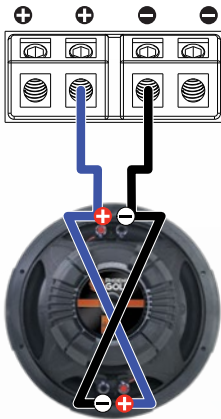
System Diagrams

RX2 12D, RX2 10D SINGLE SUBWOOFER SYSTEM (Optimal Setup)

RX2 250.1 or RX2 500.1 + (1) RX2 12D or (1) RX2 10D

All voice coils are wired in parallel for 2 Ohm load.
RX2 250.1 and RX2 500.1 make maximum power into 2 Ohm load.

Dual VC 4 Ohm Subwoofer
(2 Ohm when wired in parallel)

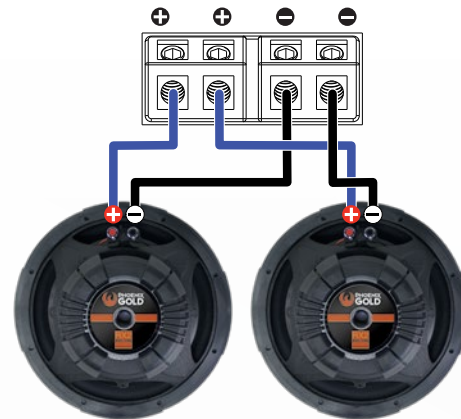


RX2 12S, RX2 10S DUAL SUBWOOFER SYSTEM

RX2 250.1 RX2 500.1 RX + (2) RX2 12S or (2) RX2 10S

All voice coils are wired in parallel for 2 Ohm load.
RX2 1000.1 makes maximum power into 1 Ohm load.
RX2 500.1 make maximum power into 2 Ohm load.

Two Single VC 4 Ohm Subwoofers
(2 Ohm when wired in parallel)

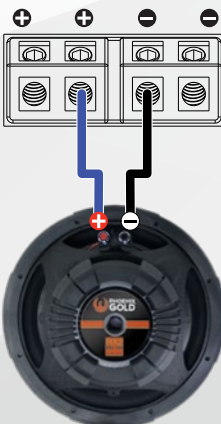


RX2 12S / RXS 10S SINGLE SUBWOOFER SYSTEM

RX2 1000.1 or RX2 500.1 + (1) RX2 12S or (1) RX2 10S

The voice coil is wired directly for a 4 Ohm load.
RX2 1000.1 makes maximum power into 1 Ohm load.
RX2 500.1 make maximum power into 2 Ohm load.

Single VC 4 Ohm Subwoofer

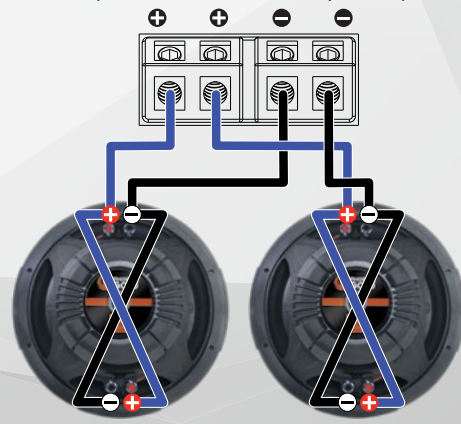


RX2 12D / RXS 10D DUAL SUBWOOFER SYSTEM

RX2 1000.1 or RX2 500.1 + (1) RX2 12D or (1) RX2 10D

All voice coils are wired in parallel for 1 Ohm load.
RX2 1000.1 makes maximum power into 1 Ohm load.
RX2 500.1 make maximum power into 2 Ohm load.

Two Dual VC 4 Ohm Subwoofers
(1 Ohm when wired in parallel)



Specifications

T/S Parameter	RX2 10s	RX2 10d	RX2 12s	RX2 12d
Re (Dcr)	3.4	3.4 x 2	3.4	3.4 x 2
FS (Hz)	28	28	28	28
Sd (SqM)	0.036	0.036	0.051	0.051
BL TM	12.15	9.08	11.53	9.02
Qms	6.59	3.62	6.57	4.57
Qes	0.35	0.52	0.46	0.7
Qts	0.33	0.46	0.43	0.61
Vas (cu L)	35.93	28.65	69.35	51.09
Cms (uM/N)	210.92	185.17	132.94	137.94
Mms (gms)	141.44	118.69	171.98	171.98
SPL	85.9dB	85.2dB	87.1dB	85.9dB
Impedance (Ohm)	Single 4 Ohm	Dual 4 Ohm	Single 4 Ohm	Dual 4 Ohm
RMS Power Handling	200 watts	200 watts	200 watts	200 watts
PEAK Power Handling	400 watts	400 watts	400 watts	400 watts
Xmax (Peak to Peak)	25mm	25mm	25mm	25mm
Driver Displacement (cf)	0.038	0.038	0.051	0.051
Mounting Diameter	9.25in - 235mm	9.25in - 235mm	11 1/8in - 282mm	11 1/8in - 282mm
Mounting Depth	5.25in /133mm	5.25 in /133mm	5.7in /145mm	5.7in /145mm

Phoenix Gold Product Warranty

LIMITED WARRANTY ON SUBWOOFERS

Phoenix Gold warrants this product to be free of defects in materials and workmanship for a period of one (1) years from the original date of purchase. This warranty is not transferable and applies only to the original purchaser from an authorized Phoenix Gold dealer in the United States of America only. Should service be necessary under this warranty for any reason due to manufacturing defect or malfunction, Phoenix Gold will (at its discretion), repair or replace the defective product with new or remanufactured product at no charge. Damage caused by the following is not covered under warranty: accident, misuse, abuse, burnt voice coils, used as door stops ,salad bowls or hats, product modification or neglect, failure to follow installation instructions, unauthorized repair attempts, misrepresentations by the seller. This warranty does not cover incidental or consequential damages and does not cover the cost of removing or reinstalling the unit(s). Cosmetic damage due to accident or normal wear and tear is not covered under warranty.

INTERNATIONAL WARRANTIES:

Products purchased outside the United States of America are covered only by that country's Authorized Phoenix Gold reseller and not by Phoenix Gold. Consumers needing service or warranty information for these products must contact that country's reseller for information.



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