

SUBWOOFER MANUAL

Models: Ti310d2, Ti310d4, Ti312d2, Ti312d4

Features

- 40mm of Peak to Peak Excursion
- 2.5" Ultra High Temp Copper Wound Voice Coil
- Radial Backplate Venting System
- Easy Connect Single Location Speaker Terminal
- Long Throw Dual Spider Suspension
- High Excursion CAE/CAD Motor Design
- Woven Tinsel Leads

- Black Anodized Aluminum Former
- One Piece Injection Polypropylene Dustcap
- High Roll Butyl Rubber Double Stitched Surround
- Optimized for Sealed or Vented Enclosures
- Rigid Powder Coated Anti-Resonant Castbasket
- Quick Disconnect Series/Parallel Wires Included

Subwoofer Owner's Manual

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BUILDING AN ENCLOSURE

Phoenix Gold subwoofers are 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 for 10 and 12 inch subwoofers or .625 MDF for 8 inch subwoofers. 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 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 "basshead's" need for maximum output while sacrificing some sound quality. The normal enclosure is a balance between SPL and SQ.

SEALED ENCLOSURE RECOMMENDATIONS

SEALED VOLUME(cu.ft.)	Ti310d2 Ti310d4	Ti312d2 Ti312d4
SPL	0.4	0.75
Normal	0.6	1.1
SQ	0.8	1.5

SPL = More overall output and compact enclosure size, but sacrifices some low bass and smooth overall output

Normal = <u>Recommended for most listeners.</u> Excellent blend of low bass, accurate and strong overall output

SQ = Smooth and exceptional low bass output, but larger enclosure size and sacrifices some overall output

Additional Notes:

• For vented enclosures a subsonic filter set at 30Hz to 40Hz is highly recommended.

· Sealed enclosure volumes INCLUDE THE DISPLACEMENT of the subwoofer.

Vented enclosure volumes INCLUDE THE DISPLACEMENT of the subwoofer. But DO NOT include displacement of the vent.

• In many cases, a 4 inch round vent/port can be used instead of a rectangle/slot vent. This can reduce the vent length and simplify the enclosure construction. However, in some rare cases at high power a small amount of port noise maybe audible. The provided slot/rectangle ports will provide maximum performance and the most predictable results. Contact technical support for additional enclosure options.

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VENTED ENCLOSURE RECOMMENDATIONS

VENTED - SPL	Ti310d2 Ti310d4	Ti312d2 Ti312d4
Volume(cu.ft.)	1.25	1.75
Vent Opening(in.)	2 x 10	2 x 12
Vent Length(in.)	24.5	23.5
Tuning Freq	40Hz	38Hz
VENTED - Normal	Ti310d2 Ti310d4	Ti312d2 Ti312d4
Volume(cu.ft.)	1.5	1.75
Vent Opening(in.)	2 x 10	2 x 12
Vent Length (in.)	25.5	28
Tuning Freq	36Hz	35Hz
VENTED - SQ	Ti310d2 Ti310d4	Ti312d2 Ti312d4
Volume(cu.ft.)	2.0	2.0
Vent Opening(in.)	2 x 10	2 x 12
Vent Length(in.)	24	29
Tuning Freq	32Hz	32Hz

POWER HANDLING RECOMMENDATIONS



SPECIFICATIONS

T/S Parameters:	Ti310d2	Ti310d4	Ti312d2	Ti312d4
Re (Dcr)	0.8	1.95	0.8	1.95
FS (Hz)	30.5	33.3	28.5	32.7
Sd (SqM)	.033	.033	.051	.051
BL (TM)	9.3	14.1	10.7	13.2
Qms	5.65	5.17	5.96	5.89
Qes	.454	.55	.47	.62
Qts	.42	.5	.43	.56
Vas (liters)	14.4	13.1	40.6	38.2
Cms (uM/N)	102.73	93.25	109.61	103.03
Mms (gms)	249.26	215.19	297.03	230.27
SPL	90dB	90dB	90dB	90dB
Impedance	Dual 2	Dual 4	Dual 2	Dual 4

*Specifications subject to change

Specifications:	Ti310d2 Ti310d4	Ti312d2 Ti312d4
Optimal RMS Power Range	400 to 600 watts	400 to 600 watts
RMS Power Handling	600 watts	600 watts
Xmax (Peak to Peak)	40mm	40mm
Mounting Diameter**	9.25in - 235mm	10.86in - 276mm
Mounting Depth	6.22in - 158mm	6.88in - 175mm
Overall Mounting Diameter	10.66in - 271mm	12.63in - 321mm

**Install Tip: Remove the rubber mounting gasket from the subwoofer and use it as a mouting hole template.

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Designed and Engineered in the USA

LIMITED WARRANTY

Phoenix Gold warrants this product to be free of defects in materials and workmanship for a period of one (1) year 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, product modification or neglect, failure to follow installation instructions, unauthorized repair attempts, misrepresentations by the seller. This warranty 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.

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