

# ELITE

*PHOENIX GOLD*



**ELITE.65cs  
OWNER'S MANUAL**

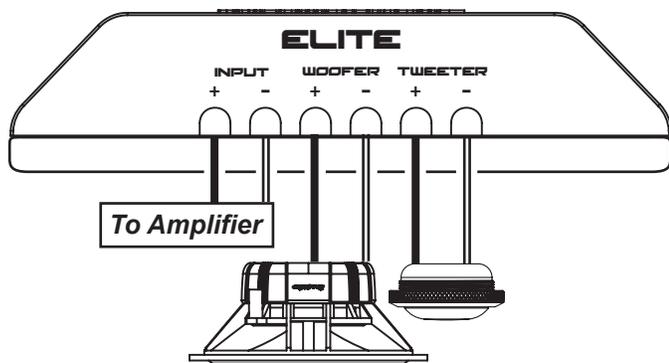
## A FEW WORDS ABOUT DESIGN

Thank you for purchasing the Phoenix Gold Elite.65cs speaker system. It features a 25mm pure silk dome tweeter that resides in an anodized aluminum housing that has been CNC'd from a single block of raw aluminum. The 6.5" midrange also features a dual roll surround that eliminates unwanted resonances, acoustical artifacts and dampens mechanical vibrations. The tweeter and midrange has been specifically engineered with complex FEA analysis that perfectly optimizes the motor structures. Engineering a great tweeter and midrange is not enough to guarantee excellent sound quality. The Elite passive crossovers are computer modeled and then real world (in car tested and further tweaked) to provide a seamless transition from the midrange to tweeter.

The overall result is ultra smooth, linear musical output with excellent spectral clarity without delivering overly bright or fatiguing high frequencies commonly found in most car audio component systems. The Elite speaker system provides breathtaking dynamic range and precision musical realism.

## CROSSOVER WIRING AND INTERNAL SWITCHES

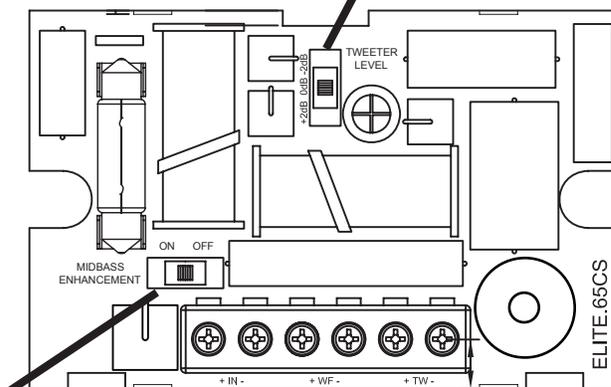
### Wiring Connections:



**Tweeter Protection:** Most component speakers offer a simple one stage "tweeter shut down" for protection. The Elite system provides two stages (polyswitch and lightbulb) that variably optimizes the signal to the tweeter when automatically activated. This protection system adapts to the dynamic signal level of the music, so it always provides just the "right" level of protection.

The Elite protection circuit is also constantly monitoring the signal without actually running the signal through these components until the protection circuit is engaged. Most other two stage or complex tweeter protection circuits require the signal to run through these components, this can degrade audio performance.

### Tweeter Level Switch



### Midbass Enhancement EQ Switch

**Tweeter Level Switch:** Allows the tweeter's output level to be adjusted -2dB, 0dB and +2dB.

**Midbass Enhancement EQ Switch:** If set to "On" this will enhance midbass output and contour down the midrange output. This is the best setting for end users that listen to modern music styles and mostly MP3 material.

Set to "Off" the system will have a truly flat frequency response, perfect for the sound quality competitor or pure audiophile.

For most sound boards, we recommend to set the tweeter to 0dB or +2dB and Midbass Enhancement EQ to "On" for best performance. Results and ears may vary.

**TWEETER MOUNTING**

**Mounting Baffle Area**    **Threaded Retaining Nut**  
**One Piece Aluminum Housing**



**Installation Instructions:**

1. Find a proper mounting location that is flat and has a mounting depth clearance of roughly 21mm.
2. Cut a 47mm mounting hole in the door panel or mounting baffle.
3. Mount and secure the tweeter to the door panel or baffle using the threaded retaining nut.
4. Connect the tweeter wires to the amplifier.

**TWEETER WIRING NOTE:**

**BLACK = POSITIVE (+)**

**BLACK W/WHITE STRIPE = NEGATIVE (-)**

**SPECIFICATIONS**

T/S Parameters:	ELITE.65cs
Re (Dcr)	3.6
FS (Hz)	55
Sd (SqM)	.0135
BL TM	5.5
Qms	5.38
Qes	.607
Qts	.545
Vas (liters)	13.24
Cms (uM/N)	581.08
Mms (gms)	15.26

\*Midrange Driver Only

\*\*Specifications subject to change

**FEATURES:**

- 25mm Silk Dome Tweeter
- Fully Machined Aluminum Tweeter Housing
- Dampened Polypropylene Cone
- Smooth Termination Dual Roll Rubber Surround
- Powder Coated Diecast Aluminum Basket
- Custom Tooled Crossover Housing with Direct Wiring Connections
- Audiophile Crossover with Tweeter and Midbass Adjustments
- Two Stage Light Bulb Tweeter Protection Circuitry
- Integrated Phase Plug
- Interwoven Tinsel Leads
- High Temperature CAE/CAD Motor Structure

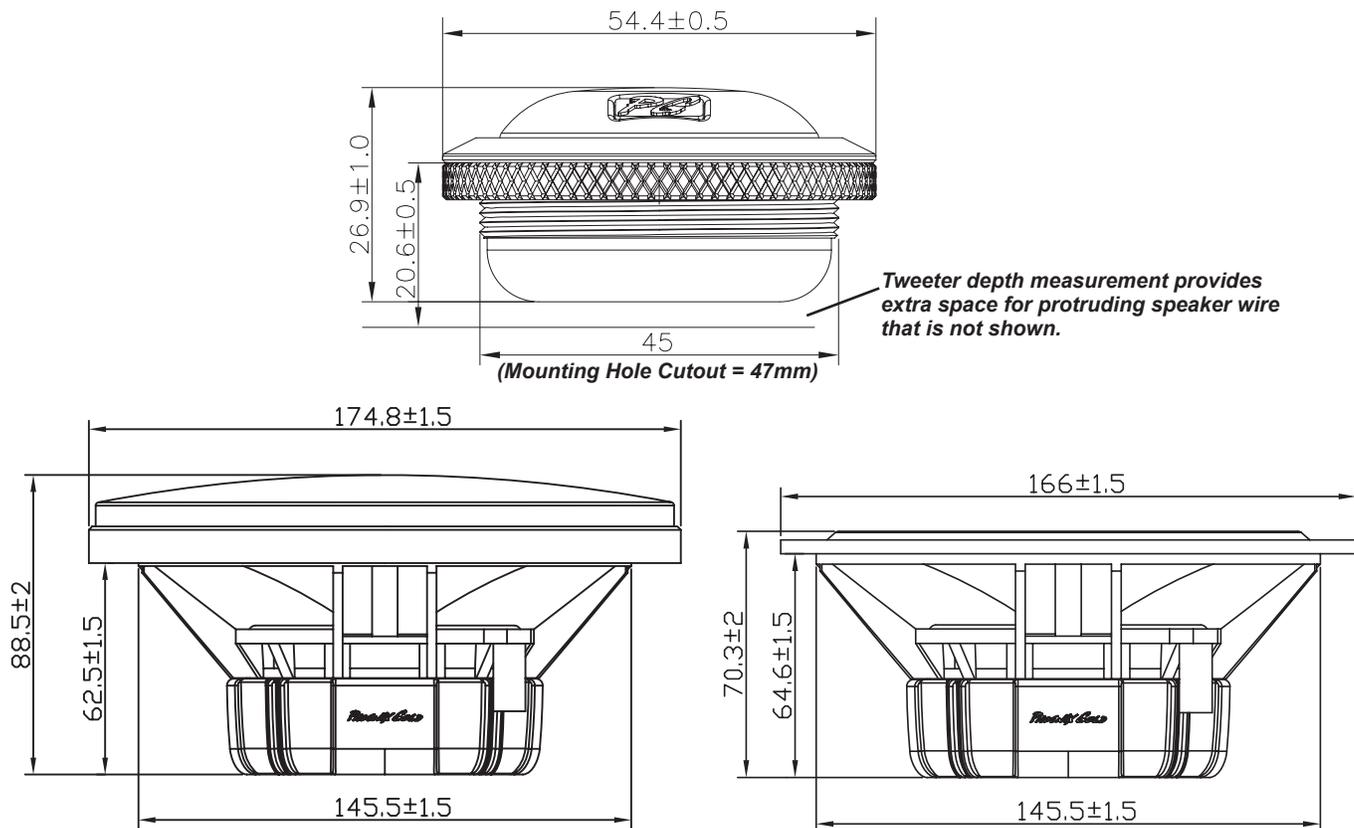
Specifications:	ELITE.65cs
RMS Power Handling	150 watts
PEAK Power Handling	300 watts
Nominal Impedance	4 ohms
Tweeter HP Acoustical Crossover	3.5kHz @ 24dB (LnkRly)
Midrange LP Acoustical Crossover	2.95kHz @ 12dB (BTW)

**(Mounting and Physical Dimensions are located on the back page)**

*Note on Fully Active Crossover Systems:* For the best performance we always recommend the use of the provided passive crossovers with an external high pass electronic crossover usually located on the amplifier or headunit. The passive crossover design is extremely complex as it "blends" and "smoothes" the tweeter and midrange's response and impedances together.

Running the system fully active with an external electronic crossover (instead of the passive crossovers) for the tweeter and midrange eliminates all this smoothing and transitional circuitry. The reality is that it almost guarantees worse performance unless the system is perfectly EQ'd with precision crossover points. It also eliminates the tweeter protection. Unless you are sound quality and tuning expert, using the provided crossovers will deliver the best performance.

## DIMENSIONS



All measurements in Millimeters

# PHOENIX GOLD

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