

TANTRUM COMPONENTS

1 YEAR LIMITED WARRANTY

Phoenix Gold warrants to the first purchaser of Tantrum Components that they are to be free from defects in materials and workmanship. The sole obligation of Phoenix Gold under this limited warranty shall be to provide, without charge, the parts and labor necessary to remedy any manufacturing defects within a one year period from the date of purchase.

This warranty is the sole and exclusive express warranty given with respect to Tantrum Components and all other express warranties are hereby excluded. Neither Phoenix Gold nor the authorized Phoenix Gold Retailer/Installer is responsible for indirect, incidental or consequential damages, so the above limitation may not apply to you.

The Phoenix Gold warranty does not cover burnt voice coils, burnt tinsel leads, damaged cones or any defect, malfunction or failure caused by misuse, abuse, accident, faulty hookup, defective associated equipment, or the use of the product with equipment for which it was not intended.

CAUTION

Tantrum Components are capable of extremely high SPL's. Prolonged exposure to these high SPL's can cause hearing loss. We want you to enjoy your Phoenix Gold speakers for a long time to come. So please use restraint on that Volume Control.



Congratulations on the purchase of this new Tantrum Component loudspeaker system. By purchasing Phoenix Gold, you've demonstrated a desire to own the finest in audio reproduction. Phoenix Gold strives to provide you, the customer, with the finest car audio products possible.

TANTRUM COMPONENT FEATURES

- Developed by Phoenix Gold from the ground up to set new standards in performance.
- 25mm, Ferro-Fluid filled, Parachute Silk dome tweeters.
- Mica Filled Black Poly Cone is precisely vacuum formed to be very light and rigid for excellent signal tracking.
- Optimized magnet/motor structures result in high efficiency and clarity.
- Advanced Butyl Surround is more rugged than foam and is extremely well damped.
- Flat Linear Roll Spider reduces distortion and provides maximum voice coil centering.
- Rigid Powder Coated Steel Frame
- Optimized 24dB/octave acoustic X-Over.
- Standard Mounting Sizes and Bolt Patterns
- Flexible tweeter mounting system.

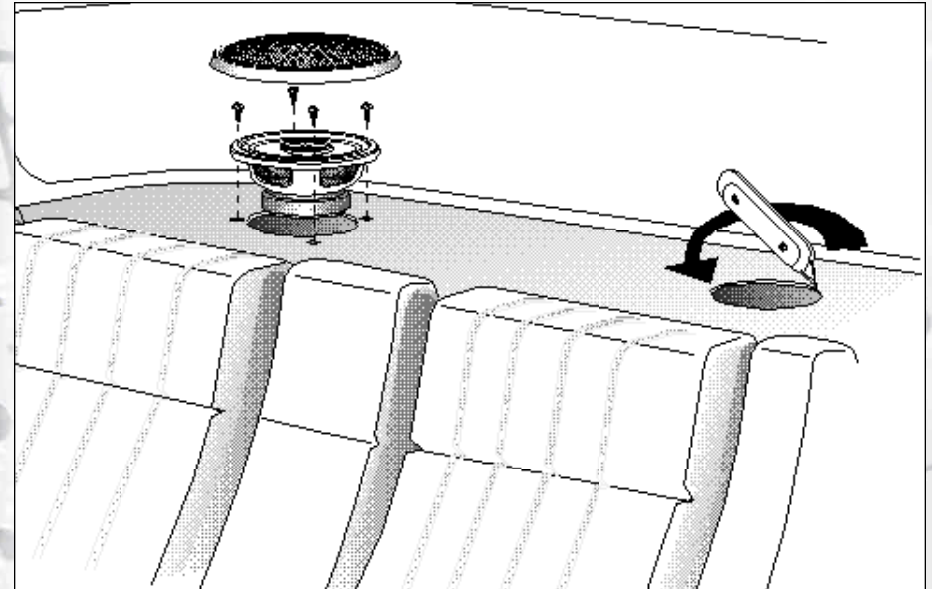


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SPECIFICATIONS

MODEL	POWER HANDLING (RMS/PEAK)	FR (HZ)	IMPEDANCE (OHMS)	SENSITIVITY (DB)	MOUNTING DEPTH (INS.)	MOUNTING DIAM. (INS.)
5.0c	60/120	70-20K	4	91	2 3/8	4 1/2
6.0c	70/140	65-20K	4	92	2 1/2	5 1/8
6.5c	70/140	65-20K	4	92	2 5/8	5 5/8

Figure 2: Creating new speaker location

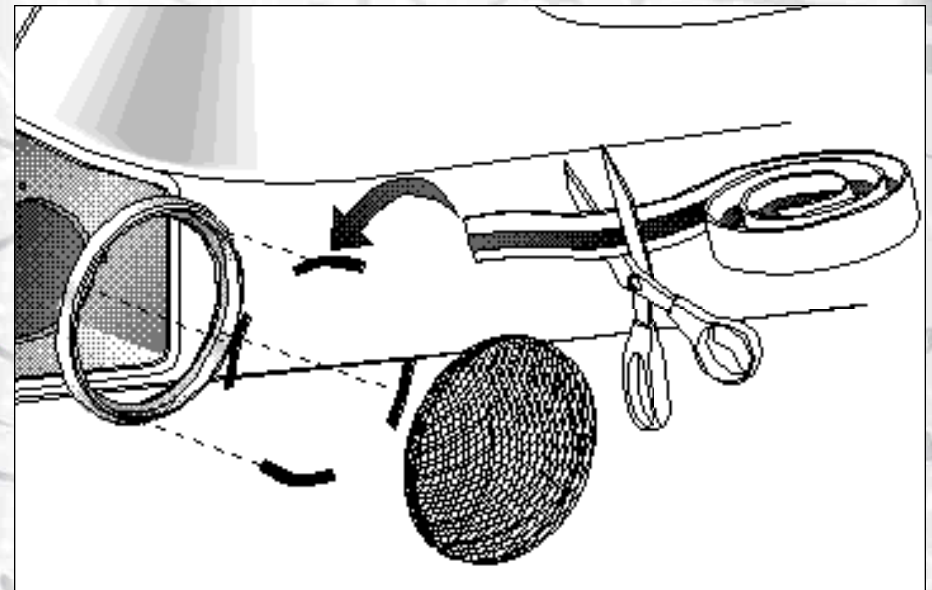


CROSSOVER INSTALLATION

The crossover included with the Tantrum component set is computer optimized to give the most accurate in-car response. Use only the crossover provided. The use of any other crossover may result in poor performance or damage to one or more of the Tantrum components. The Tantrum crossover can be mounted anywhere that is convenient. Common mounting positions are under the dashboard, in the kick panel, or under the rear deck. Be cautious when mounting the crossover inside of a door panel that might be exposed to moisture.

Remove the crossover cover to access the two internal mounting holes. Use the supplied mounting screws to secure the crossover. Make sure that there is ample clearance on both sides of the mounting surface to avoid damaging other equipment in the vehicle. Wire the crossover to the component speakers and amplifier as shown.

Figure 3: Gasket material used to secure grill



TANTRUM COMPONENT INSTALLATION

Selecting the placement of your new Tantrum Component speakers could be as easy as using the existing factory locations or may require you to create a new location. Speaker placement in the door, dash, or rear deck is the most common. See your local Phoenix Gold Dealer for additional location and mounting assistance.

TANTRUM WOOFER INSTALLATION

1. Many vehicles already have factory locations (Figure 1.) to house the "DROP IN" feature of the Tantrum Component line. If no existing locations are available or are not used (Figure 2.), check the desired location for adequate cutout area and any depth obstructions. Make sure to allow sufficient clearance for window tracks, structural braces, trunk lid springs, etc.
2. Assuming enough area and depth is available, use the provided template and trace the speaker cutout and mounting holes onto the surface of the mounting location.
3. If using the supplied grill, the trim ring must be mounted first with the woofer holding it in place. Then apply the supplied sticky putty material to secure the grill (Figure 3).
4. If the mounting surface is not structurally strong enough to accommodate screws, (i.e. plastic, cardboard) use the provided speed clips which will act as a nut for the supplied screws.
5. Always provide water protection if not supplied in the vehicle. We suggest using a rain shield or equivalent. If in doubt, please contact your Phoenix Gold Dealer.

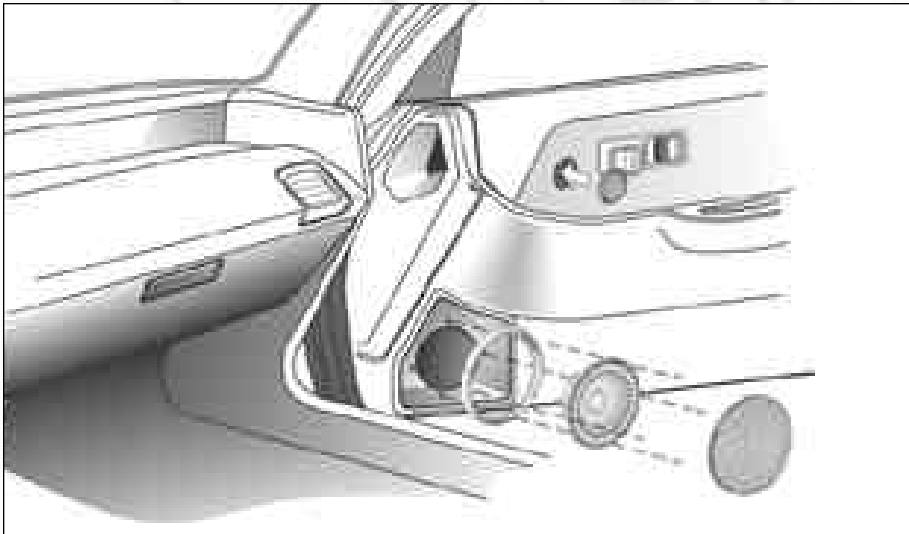
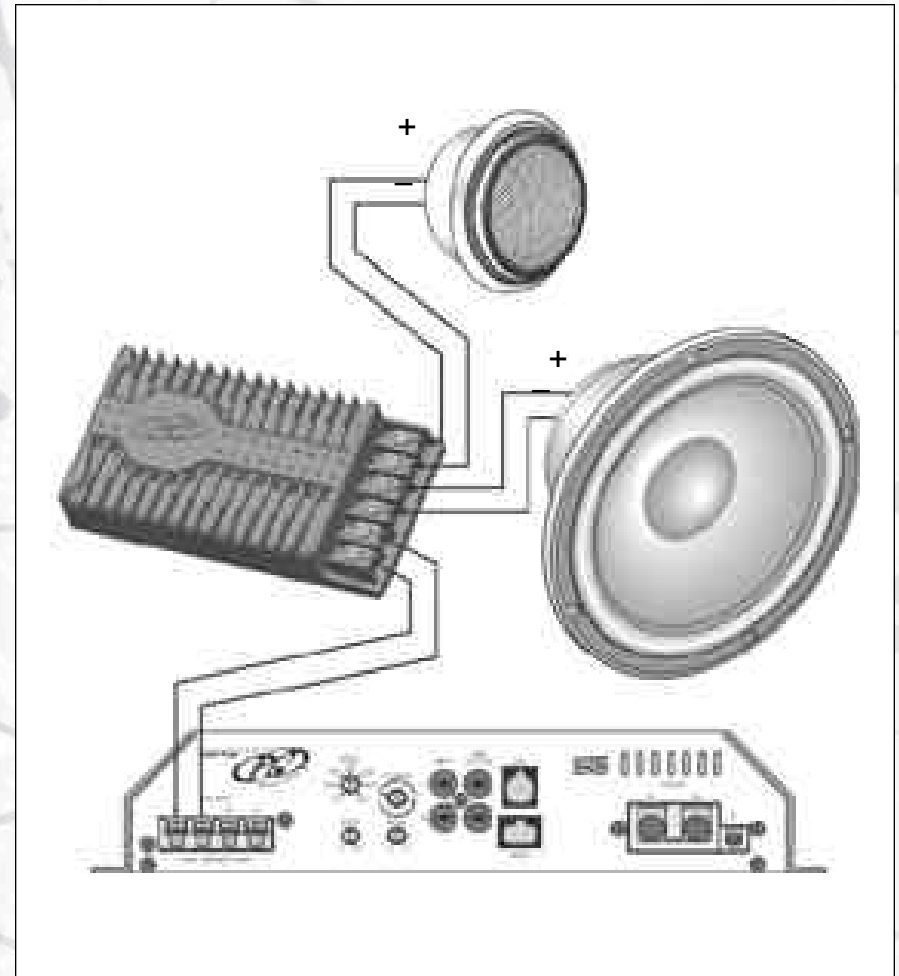


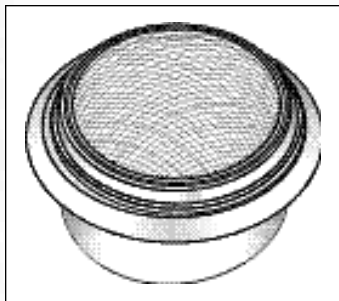
Figure 1: Factory speaker location

TYPICAL SYSTEM HOOKUP

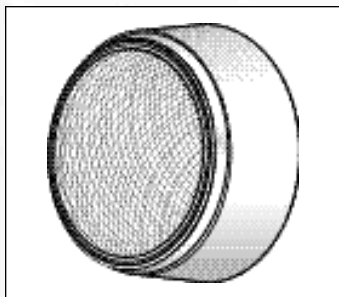


TWEETER INSTALLATION

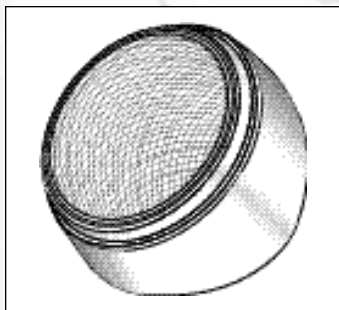
The Tantrum Component series features several types of unique mounting options. The Tantrum component tweeter is easy to install in any vehicle. Each Tantrum component set comes with a flush mount, surface mount, and angle mount hardware kit. For other custom mounting configurations contact your Phoenix Gold Dealer.



FLUSH MOUNT: For optimal tweeter installation, use the flush mount option. The Flush mount requires a 7/8" depth and 2 1/8" mounting hole in the mounting surface. The flush mount tweeter housing is a two piece design that twists counter clockwise for opening, to insert the tweeter driver. A clockwise twist will lock the housing assembly together. Use the hex bolt and pronged spring retainer to secure the housing to the mounting surface.



SURFACE MOUNT: Use the surface mount option when cutting a hole in the door panel, or other mounting surface is not possible. Make sure that the surface mount location is free of passenger movement that might damage the tweeter. Use the kit screws supplied to secure the mount to the surface.

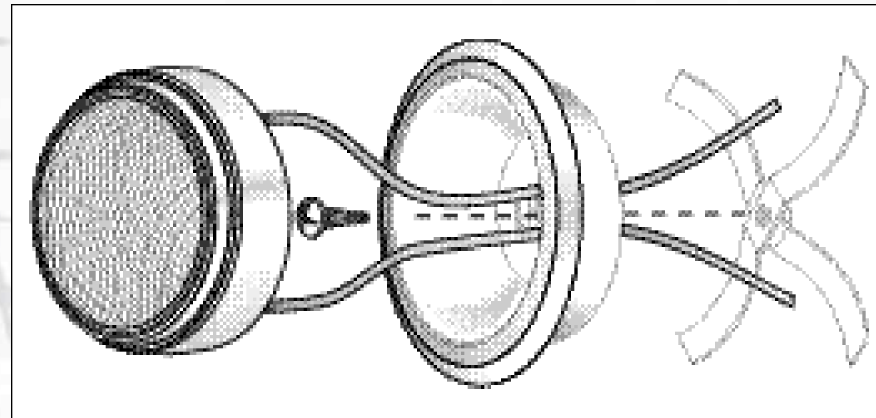


ANGLE MOUNT: This other surface mount type of housing is a two piece unit that opens just like the flush mount part. It should be used when a surface angle directs the tweeter axis away from the listener. This can be useful in dashboard and kick panel mounting situations.

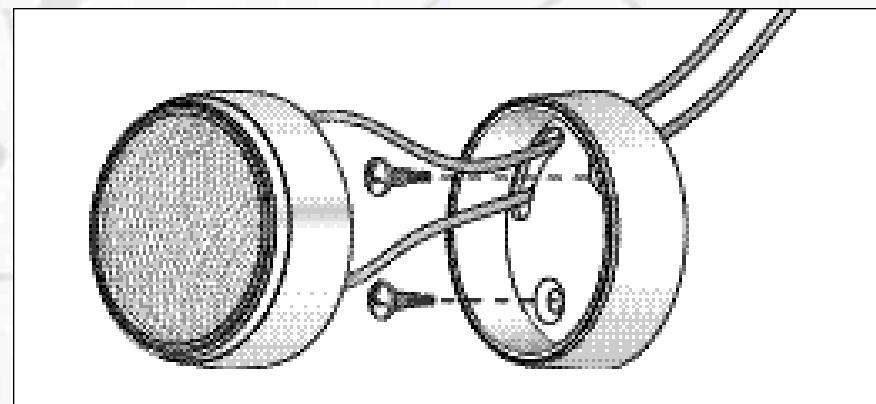
TANTRUM TWEETER PLACEMENT

For the best results always try to maintain equal path lengths between the right and left tweeters and the listening position. This can usually be accomplished by mounting as low and deep as possible, in a kick panel installation, or high and deep in a dashboard installation. Be cautious in dashboard installations not to reflect the tweeter off of the windshield. This increases reflections and greatly diminishes the overall performance of the tweeter. The angle mount housing can help to point the tweeter at the listener. For door panel installations try to angle the tweeter toward the listener to minimize cross cancellation.

FLUSH MOUNT ASSEMBLY



SURFACE MOUNT ASSEMBLY



ANGLE MOUNT ASSEMBLY

