2008 AES Speaker Building Party

Saturday, 2 Feb 2008

What you need to know.







Matt Poese & Steven Garrett 30 Jan 2008







Three Tasks

• Set-up and clean-up

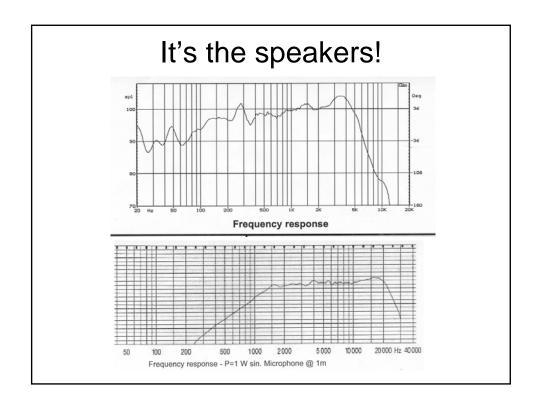
• Cross-over wiring

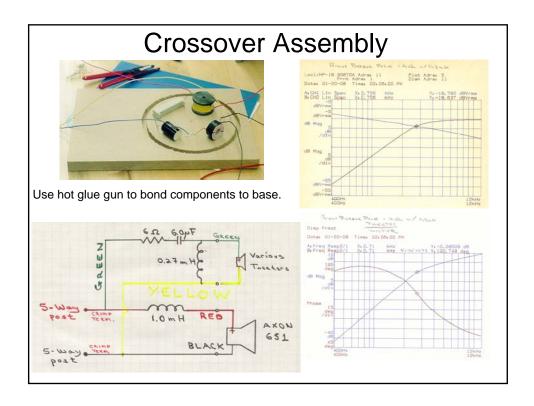
- Function generator testing is recommended

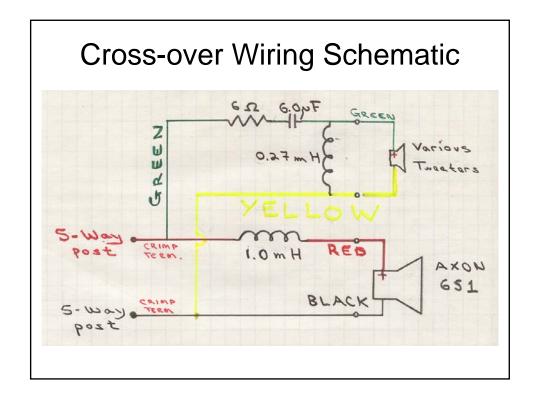
• Enclosure manufacture

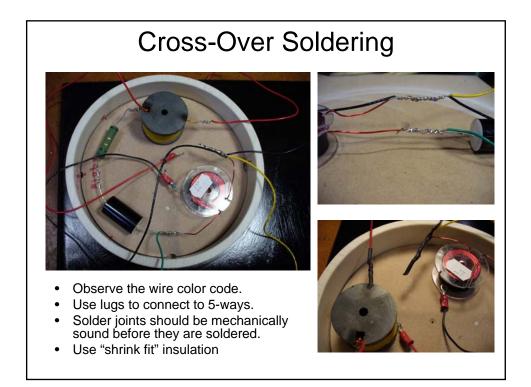
- Tweeter enclosure and elbow interface
- Woofer mounting screws and ring
- 5-way binding posts
- Sealing the base

	Job List	First Name	Last Name	Time
Job List	Locks and Electric Hand Drills	Chris	Barber	Both
		Kevin	Brown	Both
	Oscillators and Multimeters (F-benches)	Matt	Poese	Both
		Steven	Garrett	Both
	Soldering Irons	Joyce	Rosenbaum	Both
		Denise	Miller	Both
	Hand tools (pliers, dykes, strippers, etc.)	Chris	Applegate	Both
		Robert	Williams	Both
	314 Hammond F-locker shelf & benches	"Sonic"	Cho	End
		Jason	Bostron	End
	313 Hammond benches	Fred	Holt	End
		Paul	Burkholter	End
	313 Hammond tools	Jeremy	Joseph	Both
		Devin	Ott	Both
	313 Hammond floors	Scott	Porter	End
		Joseph	Porter	End
	Floaters	Doug	Wilcox	Both
		Brett	Bissinger	Both
		Mark	Ballora	Both









Enclosure Manufacture

Dr. Liu says:

"Wear eye protection at all times in 313 Hammond."



90° Elbow – Woofer Interface





¾" ring also provides sealing surface. Surfaces should be flat.Drive screws before mounting woofer.Wax (paraffin) makes it easier to self-tap.

Tweeter Enclosure Cap



This is the most difficult step! #6 x ¾" screws require #31 drill. Drill can exit cap Drill interface hole afterward.



Custom clamping fixture with lower support block.

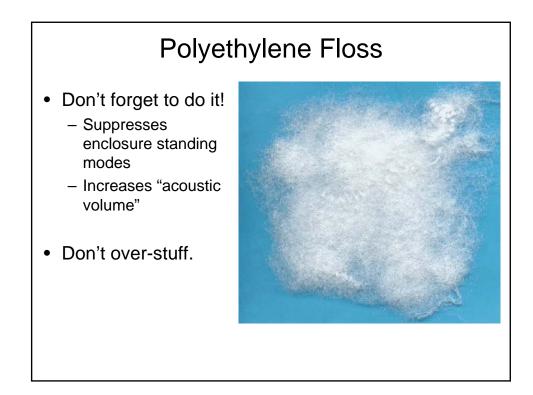




Sealing the base

- Do not seal if further cross-over tweaks are anticipated.
- Too much glue will harm paint.
- Cementing of the 90° elbow to 6" PVC pipe is usually not required.
- Add screws as back-up if the speaker is to be hung upside-down.





PVC Speaker Parts Suppliers

- · Loudspeakers and cross-over components
 - Zalytron, Mineola, NY: www.zalytron.com
 - Axon (German) Woofer (6S1) and Tweeter
- Hardware, shrink-fit insulation
 - Parts Express, Springboro, OH: www.partsexpress.com
 - Black anodized screws P/N: 081-435 and 081-422
- 5-way binding posts
 - Jameco Electronics, Belmont, CA: www.jameco.com
 - P/N: 77690