

Audiosmile

Supertweeters



MK3 User Guide
2017

Specifications:

Size:	13cm x 8cm x 16cm WHD
Weight, Each:	~900g
Frequency Range:	Extension to 40KHz
Max. Output	95dB per ribbon (98dB per supertweeter)
Harmonic Distortion:	~0.4%
Impedance - *Important*	Source amplifier should have an output impedance of <0.1 Ohms. Higher figures will cause response irregularity.

Care:

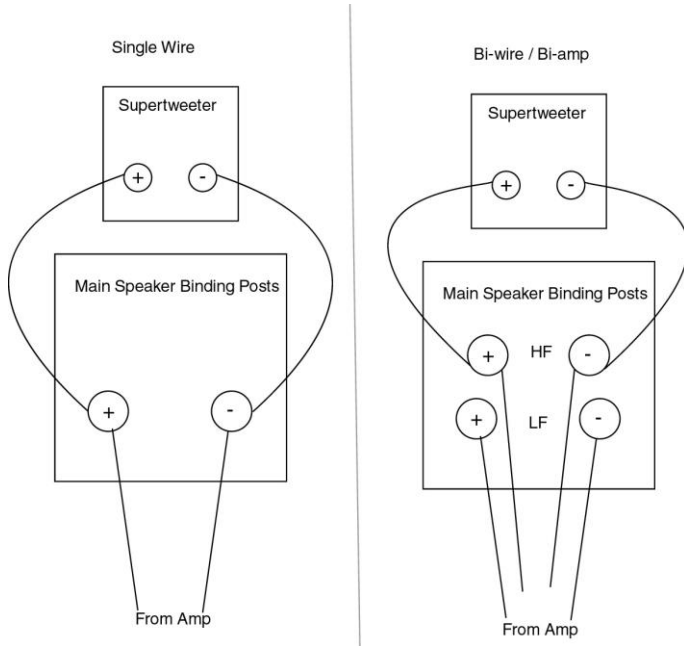
To clean the supertweeter of dust and fingerprints use a slightly dampened micro-fibre cloth. Take care not to allow moisture in the ribbon element, nor the seam between wood end pieces and main body.

Handle the supertweeters with care at all times, some of the components are fragile.

Do not force banana plugs, ensure they are entering the socket centre correctly.

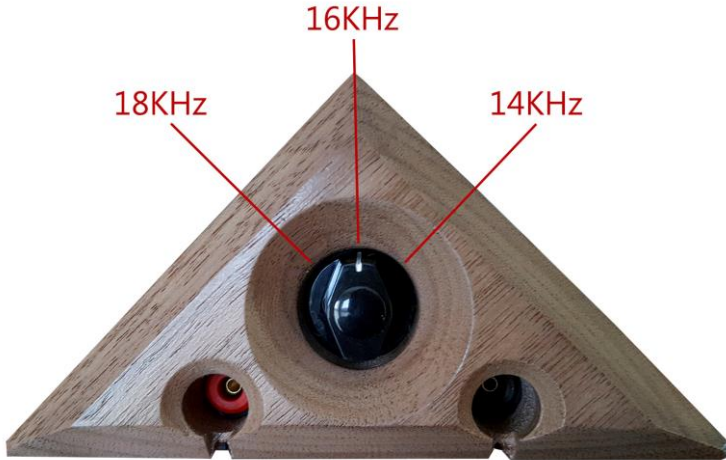
Connection:

The supertweeters should be linked from the binding posts on the back of your main speakers using a short length of cable. Cable is supplied pre-terminated with 2mm banana plugs to fit the supertweeters.

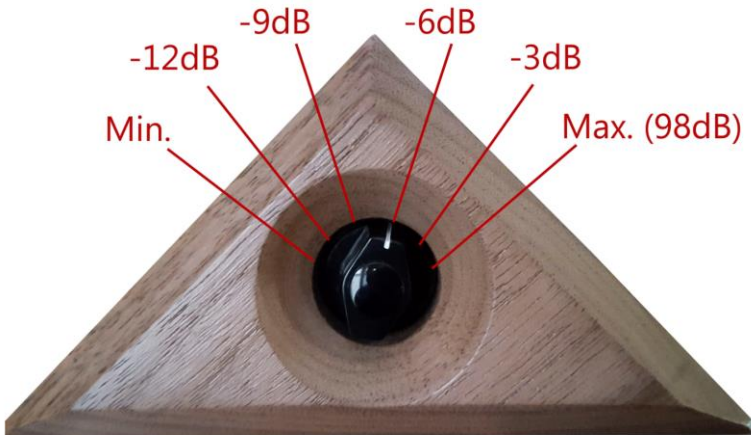


Switches:

The rotary switch on the **back** of the supertweeter selects the **filter frequency** and has 3 positions. These are as pictured below.



The rotary switch on the **front** of the supertweeter selects the **output level** and has 6 positions. These are as pictured below.

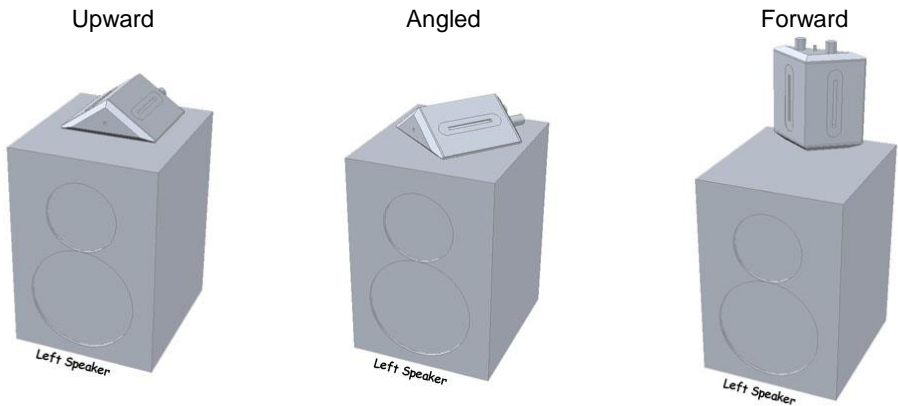


Position:

The position of the supertweeter can affect the sound greatly. There are essentially 3 ways the supertweeter can be positioned for typical box speakers, however experimentation is the only way to find the best sound for your system, room acoustics and personal taste.

The supertweeters should be placed on top of the main speakers towards the back of the cabinet. The distance between the supertweeter and the main tweeter aids integration by spacial averaging.

The supertweeter is designed that it can be placed:



Upward - The listener will hear mostly diffuse sound reflected from the room. This will give the most subtle contribution to the sound balance, while enhancing spacial cues in the music.

Angled – The listener will hear some direct sound from the supertweeter as well as diffuse energy reflected from the room. This makes the level from the supertweeter apparently louder than the upward position while not affect sound balance as much as the Forward position.

Forward – The listener will hear the greatest contribution of direct sound from the supertweeter. The level is seemingly loudest in this position. It is important to keep the supertweeter some distance from the main tweeter to promote spacial integration.

In all cases experimentation is key, there is no fixed ideal.

FAQ:

Q. What amp power do the supertweeters require?

A. The supertweeters only draws power above 10KHz. Total power requirement is therefore very small.

Q. What is the impedance of the supertweeter?

A. The level setting affects the minimum impedance of the supertweeters. At the lowest level setting, the impedance minimum is 6 Ohms. At the highest level setting, the impedance minimum is 1.5 Ohms.

Q. What cable do you recommend?

A. High quality cable is provided with the supertweeters, pre-terminated with micro-banana plugs.

Q. Can I connect the supertweeters without the main speakers?

A. This is not recommended. It can cause amplifier protection circuits to trigger. Additionally it is tempting to increase the level more than would be normal while hearing full range sound.

Q. Is it safe to connect / disconnect the supertweeters while music is playing?

A. No, turn the amplifier off first.

Q. Is it safe to change the filter and level switch position while music is playing?

A. Yes, this is okay.

Warranty:

The supertweeter warranty is valid for 12 months from the date of purchase. It covers the cost of repair or replacement due to defects in materials and/or manufacturing faults.

The warranty does not cover damage or defects caused by:

- a) unauthorised modification of the unit; or
- b) accidental damage.

All claims must be accompanied by proof of purchase.