HDS-255C CENTRE SPEAKER

Peerless



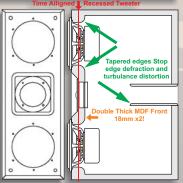


Big sound from a compact box. Fully Shielded for TV Home Theater. Optimised for Center Chennel use! Impressive Audiophile performance. Focussed clarity of time allegement. Rear vented. Tapered internal edges. Time corrected, counter-sunk tweeter. Coaxial MTM design. Curved grills. Cast alloy framed, 5 layered drivers, the latest from Peerless Denmark. Professionally designed and crafted. Australian wood veneers. Frequency 42Hz to 22KHz H495 x W180 x D305mm Power Amp 10 to 100 Watt 80hm nominal. Sensitivity 92dB. Excellent for matching with our HDS and XLS Range of speakers.





| DOSPACT Response (Shareware) | Mac Culput STs. (dfl) | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100



PEERLESS HDS/XLS SERIES OF SPEAKER SYSTEMS

Designed By Russell Storey of Stones Sound Studio. Welcome to our new range of speaker systems available in economical kit form. Every aspect of the cabinet design has been customized to suit the Peerless drivers specifically with port and box volume tailored to maximize the performance of the HDS and XLS range of premium drivers.

A new improved tweeter has been developed in conjunction Peerless Denmark and Russell Storey, our audio consultant, to closely match the HDS series of mid-woofers. Cabinet development has been achieved using the latest in computer analysis software including LEAP and LMS along with the design experience of Stones Sound Studio who specialize in premium, exotic, custom speaker design. All cabinets are precision made from medium -density custom wood (MDF) with a choice of veneers and the best in computer controlled cabinet manufacturing processes.. The Peerless HDS range of drivers and matching XLS range of subwoofers, offer incredible performance and value for money. When correctly developed with our custom designed cabinets, precision crossover matching and premium quality components, the result is a finished speaker that rivals the best musical audio available in the world, and also giving fantastic dynamics and realism to the new digital DVD home theater of today. Thank you and enjoy.

HDS255c COMPLETE KIT

Sold Individually, Singular, Two required for stereo. Requires Assembly.

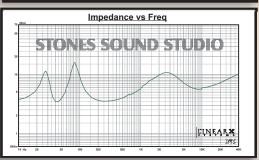
KIT255CTO Tasmanian Oak

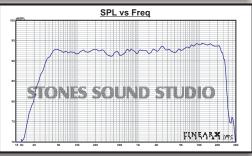
KIT255CJA Jarah KIT255CBV Black Vinyl

Includes:

Built Cabinet with Speaker Grill 5" Mid-Woofers 850528 x2 1" Tweeter 810653

Crossover Kit (Requires Construction)
Assembly Hardware & Instructions





AUSTRALIAN DISTRIBUTOR

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HDS-255c CENTER MTM SPEAKERS

The HDS255c audiophile, high definition center speaker is designed to faithfully reproduce both music and home cinema sound with crystal clear and pinpoint imaging. Best suited for use in small to medium sized rooms on speaker stands, a shelf or on top of the Television. This exceptional speaker was developed to work in horizontal axis and uses shielded drivers for use near TVs, with home theatre, developed with extra attention given to vocal clarity required by cinema. Two 5.5" Peerless HDS mid-woofers give articulate tight, fast bass, natural mids, an impressively wide sound stage with low distortion at even high volume levels. The purpose developed Peerless HDS tweeter is Acoustically-Alligned (physically counter-sunk into the box) and Phase-aligned in an MTM coaxial design with a premium quality, professionally tuned box for incredible clarity, definition, accuracy and fantastic dynamic impact that rivals any speaker in this sized package. A truly audiophile speaker for music and/or home theatre. Highly recommended to be used with our Peerless HDS Series of speakers and the XLS Series of subwoofers to complete the audio-visual experience.

Sound Signature Matched For Home Theatre

To best reproduce the DVD home theatre audio experience, it is recommended by most installers that all speakers be identical. This is to achieve a seamless transition of sound from one speaker to the other without any obvious change in tone. You can accomplish this by using a combination of all HDS250 speakers (HDS255c as centers). However, it can also be achieved by the use of a combination of different speakers in this range, due to the close sonic resemblances of each HDS speaker. eg. For a most impressive setup, use the HDS455 as mains, the HDS255c as your center and the conveniently compact HDS150 or HDS250 as surround speakers. The choice of XLS800 or XLS1000 depends on room size and potential listening volume.











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Peerless





Speakers Of Cutting Edge Technology



Peerless HDS250 [HDS255c] 2-Way Time-Aligned **Speaker System** SSS Rev-4 MK1

Designed By Russell Storey

Contents of KIT255c (Complete Kit):

HDS250-xx

Cabinet (xx=Colour Code)

With Speaker Grill

XOK255cCrossover Kit 2-Way Center Type Woofers 5"2x 850528 Peerless Shielded Tweeter 1" 810653 Peerless Shielded Screws x20 STS7B (7mmx20mm) Gasket Tape GT200 (2m)

Felt cotton waste (Supplied with box)

HDS250 Instruction Sheet Is used for the HDS255c As it is a physically Identical **Speaker Cabinet [CAB250-xx]**

Tools You Require:

Screwdriver Philips 1 point. Power Drill (Battery drill with Torque setting recommended) Drill bits (2mm for pilot holes) Centre punch and/or pen Hammer and Ruler



Before You Start:

Check the contents of the kit and that all is supplied and in good condition.

Make sure you have a clean work area. It is recommended you use a drop sheet of some kind so that your work does not scratch the cabinet.



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Speakers Of Cutting Edge Technology

CONNECTION TO YOUR AMPLIFIER

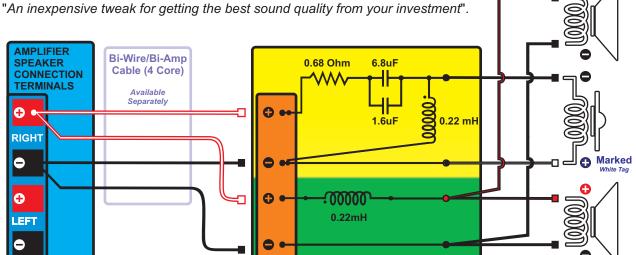
WHY A DUAL PAIR TERMINAL CUP?

Our premium grade HDS Series of speaker systems come with dual pair terminal cups. This facilitates connection to both the upper and lower frequency drivers separately. Generally this is not required for a normal audio system set up but is given as an option for Audiophiles who wish to take advantage of the improvements from Bi-Wiring or Bi-Amping.



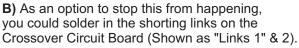
BI-WIRE CONNECTION

This refers to the running of separate cables from the amplifier to both the high range and low range drivers. This arguably improves definition and focus by improving the amplifiers damping and reducing intermodulation crosstalk between the woofer and the tweeter.



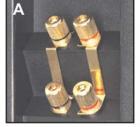
NORMAL SINGLE WIRE CONNECTION

A) If you do not wish to use Bi-Wire or Bi-Amping, then simply leave the supplied "Shorting-Straps' in place on the rear terminal block and use a standard speaker wire pair to connect your speakers to your amplifier system. Please note that the Gold plated terminals must be tightened securely so the straps don't accidentally slip loose over time with the speakers vibration and one driver stops functioning due to being disconnected.

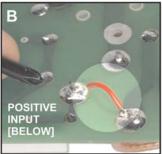


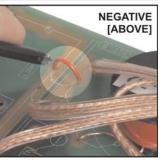
C) Alternatively you could connect the input speaker cable from your system to both terminals.

DOUBLE CHECK ALL WIRING AND PAY PARTICULAR ATTENTION TO POLARITIES AS







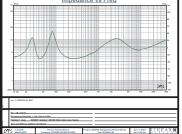


XON250 TO SUIT SPEAKER KIT HDS250

Bessel - Butterworth 2 Way Crossover Acoustically time aligned with cabinet Matched to Peerless drivers;

810653 Tweeter Woofers (X2) 850528 Crossover Frequency 2758Hz Low Pass Filter 6dB/Octave High Pass Filter 12dB/Octave





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HDS255c - Speaker Box Instruction Sheet

Locate all parts and check condition of each item. Familiarise yourself with the instructions and parts. Review how it all fits together before commencing. Double check your work before final assembly. Check all connection polarities (Most common error). Insert Crossover 1st, hang the leads out each hole. Attach connectors and screw in the rear terminal cup. Position the cables away from the Woofer and port. Attach connectors and screw in each of the drivers. Attach speaker cables to amplifier and enjoy!

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Please double check your work for best results will achieve best sound.

CROSSOVER CONNECTION:

Ensure all connections are tight and secure with all polarities correct.

If you have a Soldering Iron, a drop of solder makes for excellent reliability. Velcro strips are supplied as a quick and easy solution for affixing the Crossover Circuit Board directly to the inside bottom of the speaker box. Attach the Velcro strips to the underside of the Crossover Circuit Board. We suggest positioning flat onto PCB where there is no solder blobs to distort the tape and its adhesive surface. Use all six for a most secure fit.

Ensure Bottom Inside of the Box is clean of dust, etc. (with a damp cloth).

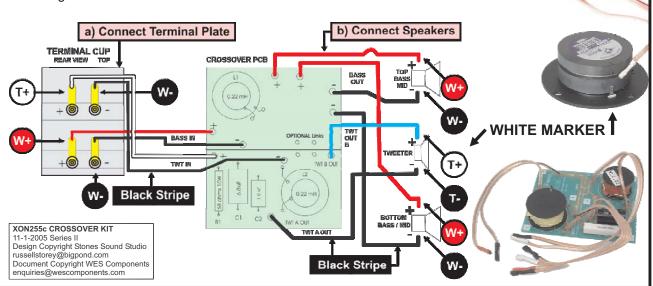
Familiarise yourself with the boards connections and where they should go. Identify the leads to be connected to the rear plate from the diagram below.

Remove Velcro tape to expose the sticky and Insert the Board into the speaker through the woofers hole and stick down on the bottom side.

Now attach the four appropriate leads to the rear terminal plate. Insert the rear terminal plate into the cabinet with the supplied screws.

Take care not to over tighten and crack the plastic.

Next stage is to install the drivers.....



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Speakers Of Cutting Edge Technology

HDS255c - Speaker Box Instruction Sheet







Place your speaker cabinet on a non-slip, non-scratch surface.

Insert the speaker jack panel into the cabinet. Internal speaker cables thread thru the Internal Damping Cloth. Aim the 4mm Banana plugs UP (This stops the plugs falling out!). Screw in using four of the supplied black screws, not too tight or you may damage the plastic panel.

Check the cables have sufficient length to reach each speaker and don't catch anywhere, or block the port.

Apply the gasket tape. This is essential for an air-tight seal. Use the speaker drivers packaging to hold and protect the face and dome/surround when applying the gasket tape... For the tweeter, carefully run the tape around the outer circumference once then cut off excess. For the woofer, keep to the inner rim of the drivers mounting flange, again, only once around then cut.

Drilling pilot holes for the woofer:

Drop in the driver and align it to the side edge of the cabinet









making sure it is absolutely square. Hammer in centre punch for the six screw holes. Remove the driver and drill a 2mm pilot hole for each screw.

If the felt is supplied separately, insert it now. The speaker box designer recommends a modest amount on the rear panel only. This gives the best sound and response.

Ensure the felt is secured and will not touch any moving part of the woofers or obstruct the port tube on the back panel. Affix using heat glue or a small staple gun.

Check the run of the speaker cables for ample reach and that they too will not touch the woofer nor obstruct the port or rattle against the cabinet walls, etc.

Attach the drivers. Apply the spade connectors to their respective drivers, ensuring you have the correct polarity. We recommend you also solder these connections for excellent long-term reliability. BEWARE not to apply too much heat to the tweeter contacts or damage to the plastic mounts can occur. Only a small amount of solder is required for a secure connection.

Screw in the drivers, carefully, moving to opposing screws and tightening until the driver is flush with the cabinet and not too tight as to thread the screw. If using an electronic screwdriver, set it to a medium torque setting, and use your hand for the final tightening.





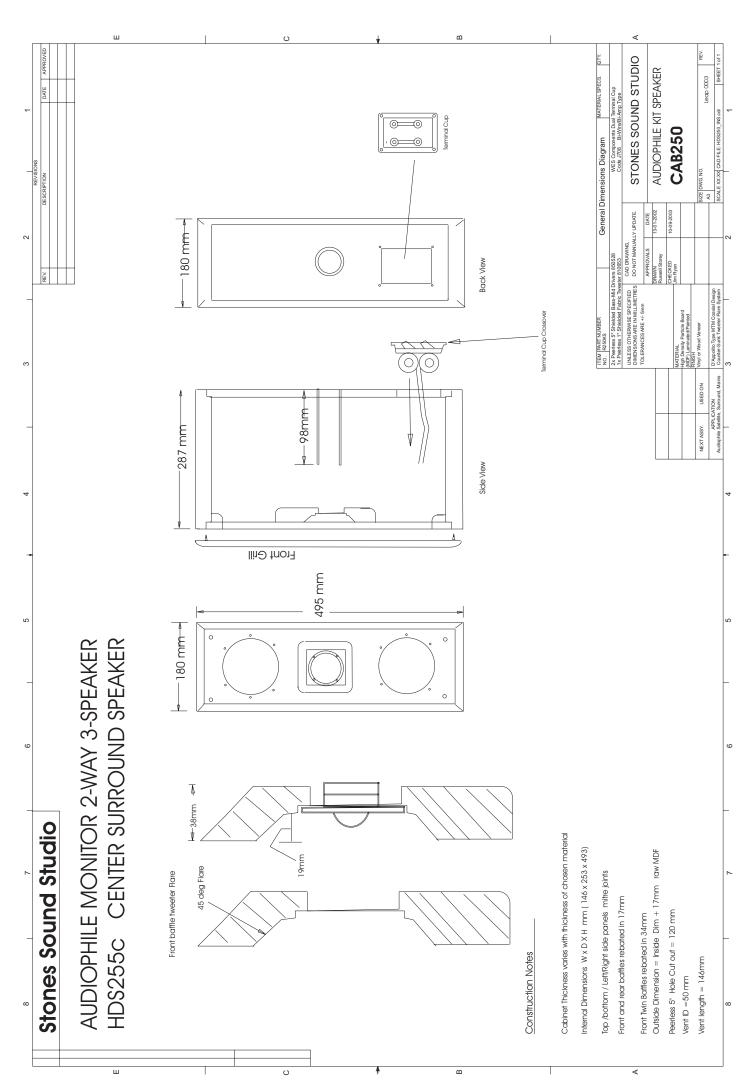
HDS250 Positioning and usage:

The HDS250 speaker system has been developed for premium home theatre and music reproduction. The highly efficient dual 5" drivers will fill a reasonable sized room with ample volume from any sized amplifier, from 10 to 110 Watts. Speaker stands or a shelf of 600mm in height is best, however as a general rule the tweeters should be about ear height. Do not obstruct the rear port, about 10/15cm clearance minimum. The HDS250s' are fully shielded so they can be positioned as close to the TV as you like, but around 10/15cm out is best for Dolby®. For optimum music listening it is desirable to have the speakers approximately 2.8M apart, around 3M away from the centre listening positioned and toed-in by 10° if desired, however, this obviously changes depending on the room acoustics and aesthetic or domestic compromises.



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