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You can read the recommendations in the user guide, the technical guide or the installation guide for CASTLE CLASSIC SERIES. You'll find the answers to all your questions on the CASTLE CLASSIC SERIES in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual CASTLE CLASSIC SERIES
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Instruction manual CASTLE CLASSIC SERIES

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CASTLE
CLASSIC SERIES
LOUDSPEAKER RANGE

IAG
International Audio Group
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INSTRUCTION MANUAL



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Manual abstract:

Heed all warnings. Follow all instructions. Do not use this apparatus near water. Clean only with dry cloth. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. @@@@A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wider blade or the third prong are provided for your safety. @@Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

Use only attachments/accessories specified by the manufacturer. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over. Unplug this apparatus during lightning storms or when unused for long periods of time. Refer all servicing to qualified service personnel.

@@@@@@Warning Castle Subwoofer: The mains power switch for this appliance is located on the rear panel. To permit free access to this switch, the apparatus must be located in an open area without any obstructions. NOTE: Castle Subwoofer: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: ! Reorient or relocate the receiving antenna. ! Increase the separation between the equipment and receiver. ! Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. ! Consult the dealer or an experienced radio/TV technician for help.

IMPORTANT NOTICE TO UK USERS The power cord on your subwoofer may be supplied with a plug incorporating a fuse, the value of which is indicated on the pin face of the plug. Should the fuse need to be replaced, an ASTA or BSI approved BS1362 fuse must be used of the same rating. If the plug is cut off it must NOT be re-used. Dispose of any such plug safely. There is a danger of electric shock if a cut-off plug is inserted into a mains socket.

Connecting a Mains Plug GREEN FUSE & The wires in the mains lead are YELLOW coloured in accordance with the (EARTH) code: BLUE BROWN Blue: NEUTRAL, Brown: LIVE: (NEUTRAL) (LIVE) Green/Yellow: Earth. As these colours may not correspond to the coloured markings identifying the terminals in your plug, proceed as follows: The BLUE wire must be connected to the terminal marked with the letter N or coloured BLUE or BLACK. The BROWN wire must be connected to the terminal marked with the letter L or coloured BROWN or RED. The GREEN/YELLOW wire must be connected to the terminal marked with the letter E or coloured GREEN or marked with the symbol RICHMOND CLASSIC SERIES Harlech S2 Howard S3 Classic Keep 2 Bastion Oriel Classic 3i Classic 7i 2 channel Floorstanding 2 x 130mm 28mm 25 - 150W 8 ohms no 89 dB 45Hz - 20kHz 40Hz 1.8kHz 915 x 200 x 335 951 225x375 22kg (48.4 lbs) 1105 x 295 x 440 (55lbs) 25kg (55kg) 2 channel Floorstanding 2 x 150mm 28mm 25 - 175W 8 ohms no 90 dB 35Hz - 20kHz 40Hz 250Hz, 1.8kHz 1000 x 210 x 335 1043 230x375 26kg (57.2 lbs) 1165 x 310 x 425 28.5 kg (62.7 lbs) AV Centre Centre position 2 x 130mm 19mm 15 - 110W 8 ohms yes 89 dB 70Hz - 20kHz 65Hz 2.

1kHz 162 x 465 x 195 6.8kg (14.96 lbs) 580 x 305 x 265 7.5kg (16.5 lbs) AV Centre Centre position 2 x 130mm 28mm 25 - 150W 8 ohms yes 91 dB 65Hz - 20kHz 60Hz 2.

1kHz 195 x 486 x 240 10.2kg (22.4 lbs) 590 x 345 x 310 11.5kg (25.3 lbs) AV Surround Wall Mount 100mm 2 x 25mm 15 - 75W 8 ohms no 87 dB 70Hz - 20kHz 90Hz 3.

9kHz 245 x 275 x 130 2 Ch & AV Stand Mount 130mm 19mm 15 - 80 W 8 ohms yes 88 dB 65Hz -20kHz 65Hz 2.8kHz 280 x 165 x 235 - 2 Ch & AV Floorstanding 2 x 130mm 25mm 15 - 150 W 8 ohms yes 90 dB 45Hz - 22kHz 45Hz 2.6kHz 900 x 180 x 275 945 210 x 317 17.2kg (37.8 lbs) 410 x 1085 x 315 19.7kg (43.4 lbs) 4.0kg (8.8 lbs) 330 x 330 x 310 5.6kg (12.

3 lbs) 4.85kg (10.6 lbs) 365 x 445 x 345 11kg (24.2 lbs) Produced after 13th August 2005. Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice. Page 21 Page 1 21 Specifications Introduction A Tradition Renewed Castle Acoustics was founded in 1973 by a group of six senior designers then working for one of the world's oldest and most respected hi-fi brands, Wharfedale. They had a vision of a new direction for loudspeaker development. This gifted group of engineers rated craftsmanship and quality of materials as fundamental in loudspeaker design.

The newly founded Castle Acoustics decided to go its own way and manufacture each Castle loudspeaker to the finest furniture-quality standard using the most sought after woods and veneers allied to the most advanced acoustic materials and technology of the time. Warwick 3 Pembroke Stirling 3 Conway 3 C LASSIC S ERIES 1 Page 20 C LASSIC S ERIES CLASSIC SERIES Parameter Function Format Bass Driver Tweeter Amplifier power (rec.) Impedance (Nominal) A/V shielded Sensitivity (1W@1M) Nominal Frequency Range Freq. Fb Crossover Frequency Dimensions (HxWxD) (mm) Height on plinth and spikes Plinth Size (W x D) (mm) Net weight Carton size (mm) Gross weight Finishes Durham 3 2 channel Stand Mount 130mm 19mm 15 - 75W 8 ohms yes 88 dB 55Hz - 20kHz 60Hz 3kHz 365 x 190 x 225 6.3kg (13.

9 lbs) 460 x 605 x 295 14kg (30.8 lbs) 2 channel Stand Mount 150mm 19mm 15 - 110W 8 ohms yes 87 dB 50Hz - 20kHz 45Hz 2.2kHz 440 x 210 x 245 8.5kg (18.7lbs) (18.

7kg) 585 x 615 x 345 19kg (41.8 lbs) 2 channel Floorstanding 130mm 19mm 15 - 75W 8 ohms no 87 dB 45Hz - 20kHz 50Hz 2.5kHz 710 x 190 x 220 746 215x265 9.7kg (21.3 lbs) 1000 x 605 x 295 22kg (48.4 lbs) 2 channel Floorstanding 2 x 130mm 28mm 25 - 150W 8 ohms yes 91 dB 45Hz - 20kHz 45Hz 2.2kHz 845 x 200 x 245 881 225 x 275 15kg (33 lbs) 1015 x 295 x 345 2 channel Floorstanding 2 x 150mm 28mm 25 - 175W 8 ohms yes 91 dB 40Hz - 20kHz 45Hz 1.8kHz 925 x 220 x 270 968 245 x 295 21kg (46.2 lbs) 1085 x 315 x 365 23kg (50.6lbs)) (50.

6 kg Now part of the International Audio Group, and under the watchful eyes of Chief Engineer, Steve Hewlett, Castle Acoustics faces a bright future. The new Classic series re-establishes Castle products at the very cutting edge of research into acoustics, while retaining the traditional virtues of impeccable design and presentation a perfect balance of form and function.



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.. 20 (36.3lbs) 16.5kg (36.

3kg) Real wood veneer: cherry, maple, natural oak, black oak, antique oak, mahogany, walnut, rosewood Parameter Bass Driver A/V shielded Amplifier power Line Input Sensitivity Avg. Max output at 1 metre Boundary response Crossover Range Dimensions (HxWxD) (mm) Height on spikes (mm) Plinth Size (W x D) (mm) Net weight Carton size (mm) Gross weight Finishes Classic Sub 300mm no 300W 325mv for 150W 120dB 35Hz - 120Hz 35 - 85Hz (in 6x10dB steps) 435 x 380 x 420 460 mm 410 x 375 28kg (61.6lbs) 515 x 495 x 615 30.5 kg ((67.1lbs) 67and information please contact either your local retailer or the offices below. UK IAG Service Dept. Unit 4 St Margaret's Way Stukeley Meadows Industrial Estate Huntingdon Cambs PE29 6EB England Tel: +44 (0)1480 452561 Fax: +44 (0)1480 413403 USA IAG America, Inc. 8440 154th Avenue NE Redmond, Washington 98052 USA Tel: +1 425 861 3909 Fax: +1 425 861 3906 Asia IAG Room 2310 - 2311 Press Building, Shennan Road C, Shenzhen, China Tel: +86-755-82091200 Fax: +86-755-82091205 Page 1 Page119 Unpacking Your Loudspeakers # Delay and LFE Settings The purpose of delay is to enable surround and dialogue information to arrive at the listener's ears at the same time as the Front channels, even when the listening seat is in a non-ideal position. Rear Delay: If the listening position is equidistant from the Front and Rear speakers, a low delay setting should be set. The closer the listener is to the Rear speakers the higher should be the delay setting used, Centre Delay: If the Centre speaker is level with (or slightly behind) the Front speakers, set the delay to zero.

If the Centre speaker is forward of the Front ht Surround Nut Collar (In Plinth) Spike # # Now tighten each locknut securely against the collar in the plinth to secure the spike A spike seat is provided for use on wood or stone floors etc. and should be placed as shown. Left Back (Single Back channel for 6.1 Right Back * On most models four self leveling soft rubber feet are included as an alternative to spikes. Using the Spike Seat 1 Page 3 Cables and Connectors Choosing Loudspeaker Cable Specialist audio cable usually offers better performance than general purpose 'bell' or 'zip' wire. Choose a cable of suitable diameter cable that is too thin will limit the dynamics of the sound and may impair the bass response. Audio cable is polarised, with two cores of different colours, or often a raised rib or coloured tracer in the case of twin cable. Before you purchase your cable, we suggest that you give careful thought to the positioning of your loudspeakers. This is especially the case if you are bi- or tri-wiring your loudspeakers. Cable lengths to loudspeaker pairs should be the same for left and right channels in order to equalise the signal transmission.

Allow some slack in your speaker cables so you can alter their position to best advantage, but do not have your cables over-long. Setting Up a Home Theatre System Some of this chapter may appear to repeat the content of the Subwoofer pages - the context however is different. Placement Front And Effects Channels The front loudspeakers are placed on either side of the television screen, 2 to 3 metres apart. The speakers should be angled slightly so they are aimed towards the listeners. We recommend placing the rear effects speakers in a high position, behind the listener's head.

If the rear or side walls are a long way from the listening seat, consider stand mounting the loudspeakers. If the centre loudspeaker is very high or low, angle it towards the listener's ear level. The front faces of the centre and surround loudspeakers should also be in line as far as possible. Note the special position for the Castle Oriol. Subwoofer As the ear is unable to detect the direction from which deep bass originates, this allows you freedom to position the unit. Varying the distance from the wall alters the bass. Placing the subwoofer across a corner boosts the bass but may impair clarity. The performance of Home Theatre systems can often be enhanced by using a pair of subwoofers. C LASSIC S ERIES 1 Page 4 C LASSIC S ERIES Preparing Loudspeaker Cable Split the twin cores to a depth of about 40mm. Carefully strip the insulation from each end, leaving about 10mm of bare wire. If the cable is stranded, lightly twist to gather any loose strands. SUB WOOFER FRONT RIGHT CENTRE FRONT LEFT 10mm 40mm REAR LEFT REAR RIGHT Connecting Screw Terminals All the Castle loudspeakers use screw terminals. Safe Connection of Terminals Unscrew the terminal. Insert the bare end of the cable into the hole in the base of the terminal. Tighten securely.

@@@The Front channels will now receive all the system bass. @@@@You may need to adjust the subwoofer output level. @@You should also set a sensible level going into the subwoofer from the AV processor. Page117 Fine Tuning Procedures Setting up of the subwoofer should be performed with all tone controls and filters on your amplifier or processor set 'flat'.

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Crossover Networks Castle loudspeakers use a variety of terminal panels. @@@@Where the voice sounds most natural is a good place to start. @@The floor will influence the sound. The surface under the subwoofer should be stable and unobstructed. @@@@The setting which appears to give the greater bass output is correct. Now follow the instructions below for setting the low pass filter.

@@@These are usually 'Large' or 'Small'. This sets the bass management for the system. @@Choose 'Small' for the surround channels and also for the Centre channel, so that any bass from these channels will be directed to the subwoofer. Set the 'Subwoofer' option on the processor to 'On' or 'Yes'. After experimenting with various sources you may need to adjust the Subwoofer Crossover settings.

Try to ensure the subwoofer blends into the sound stage - the more invisible the subwoofer component of the sound field is, the better. Setting levels: Once the loudspeaker settings have been finalised, put the AV amplifier into its "Test" mode (see instructions supplied with your processor.) Adjust the levels until all channels are reproduced at equal loudness. When adjusting the subwoofer output level avoid setting too high a level or you will swamp the sound with bass which be tiring to listen to and may limit the subwoofer's ability to respond to large bass transients. Set a sensible level going into the subwoofer from the processor.

LFE: This channel was originally an additional bass channel with its own dedicated subwoofer. In practice however, if any speakers are set to 'Small', the LFE channel is combined with the bass from those channels and fed into the subwoofer. When you set the LFE level from your AV processor, use care as the LFE channel contains powerful low frequencies which, although normal in a cinema, may overload a domestic subwoofer. If, during a programme, you hear popping or thumping noises from the subwoofer, turn the AV Processor volume level down and back off the LFE level. If this does not cure the problem, lower the subwoofer volume level. Why Bi-Wire? Bi-wiring involves the use of two separate cables between the amplifier and the loudspeakers. One pair connects to the treble unit the other to the bass driver. Using separate cables for treble and bass units in a Bi-Wiring configuration reduces intermodulation effects and improves headroom and clarity. To bi-wire, you will need to install two lengths of twin core cable between the amplifier and each loudspeaker. As supplied In bi-wiring mode Castle Richmond Classic 7i As supplied Richmond Classic 3i Standard Crossovers The Richmond Classic 3i and Oriel use standard crossovers.

The Oriel uses a special version built into the rear wall of the loudspeaker. In bi-wiring mode Oriel (detail) Castle Howard The Howard uses separate terminal panels for the treble and bass sections of the loudspeaker. We recommend that the Howard should only be bi-wired. Castle Howard Terminals 1 Page 5 Positioning Stereo Loudspeakers The distance between the speakers should be the same as between you and the speakers. Operating Your Subwoofer Check that all connections to the subwoofer have been properly made and that the main volume control is at minimum. Plug the supplied power cord into the mains socket on the rear panel. Initial Settings Volume Control: Set the subwoofer volume control to the mid position (12 o'clock) before proceeding. C LASSIC S ERIES 1 Page 6 C LASSIC S ERIES Crossover Control: This control should initially be set to 45 or 55 Hz when the subwoofer is used with small bookshelf speakers and to 35or 40 Hz when used with large floor standing speakers. Phase Switch: The Phase switch should be initially set to 0°. Switching On Plug in the mains plug and switch the power on.

Now switch the subwoofer on with the rest of your system. If the loudspeakers are placed too close to the walls the bass will increase but may be boomy and indistinct. If the loudspeakers are placed further away from the walls, the inward angle ("toe in") may be increased by up to 30% As personal taste plays a large role, experiment with different configurations and play a wide range of programme material before finalising the position of your speakers. The optimum listening position is in the area broadly known as the 'sweet spot'. The more extreme the angle the narrower the sweet spot is.

Castle loudspeakers are designed to cover a medium sonic perspective so there should be no need fo extreme settings. 2-4 metres The subwoofer ON/OFF switch has a rocker action; press the upper part to switch the equipment on and the lower part to switch it off. @@@The bass should be even and an extension of the main loudspeakers. @@@@Select the position which produces the most natural, extended bass. Crossover Adjustment.

This adjusts the blend between the subwoofer and the main speakers. and enables the system to be set up for optimum bass performance.

@@@@Always turn the main volume control to minimum when you switch the system on or off. Stand Mounting Loudspeakers The Castle Durham, Warwick and Richmond 3i are designed for stand mounting. The stands should be sturdy and offer optimum support for the loudspeaker. As an alternative the speakers may be wall mounted on rigid brackets or placed on rigid shelves. Ideally the top of the speaker should be at ear level to a seated listener. If the rear panels of the speakers are placed close to the walls the amount of bass will be increased but the clarity may well suffer - you should experiment until you get the best result. Page115 Connecting Your Subwoofer -3 High Level Connections Parallel Connection to the Amplifier You will need two lengths of Loudspeaker cable. Ensure the Front loudspeakers are correctly connected.

Connect the Left Speaker Terminals on the sub bass unit to the Front Left speaker terminals on the amplifier. Connect the Red (+) speaker terminal on the amplifier to the Red (+) terminal on the subwoofer. Connect the Black (-) speaker terminal on the amplifier to the Black (-)Terminal on the subwoofer. Now connect the Right Speaker terminals on the subwoofer to the Front Right speaker terminals on the amplifier. Connecting Stereo Loudspeakers -1 Standard Loudspeaker Wiring Richmond Classic 3i Choose a suitable length of twin core speaker cable for each channel, and prepare the ends. Unscrew each terminal a few turns. L R R.SPKR AMPLIFIER L.SPKR C LASSIC S ERIES 1 Page 14 C LASSIC S ERIES AMPLIFIER RIGHT LEFT FRONT RIGHT TREBLE FRONT LEFT TREBLE Connect the red, positive (+) terminal of the Left loudspeaker to the corresponding red, positive (+) amplifier terminal. Connect the black, negative (-) terminals similarly.

Tighten the terminals securely. Repeat this procedure for the Right Channel. If you are standard wiring a bi-wiring panel make sure that the binding straps are securely in place.



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Right Speaker Left Speaker Castle Classic Range except Howard and Oriel R.SPKR AMPLIFIER L.

SPKR BASS BASS Parallel Connection to the Loudspeakers Alternatively you may connect the subwoofer to the Front speakers instead of to the amplifier.

Right Speaker L R Left Speaker AMPLIFIER RIGHT LEFT Castle Richmond Classic 7i FRONT RIGHT TREBLE FRONT LEFT TREBLE R.SPKR AMPLIFIER L.SPKR BASS BASS Right Speaker Left Speaker 1 Page 7 Connecting Stereo Loudspeakers -2 Bi- Wiring To Bi-wire, you will need to install two lengths of twin core cable between the amplifier and each loudspeaker. Note: Some amplifiers have two pairs of output terminals to facilitate bi-wiring but this is not essential.

The advantages of biwiring are fully retained if your amplifier has only one pair of loudspeaker terminals per channel (as in the illustrations). Connecting Your Subwoofer -2 Stereo Line Level Connections If your amplifier has a spare preamplifier output or a stereo sub-woofer output, connect the sub-woofer as shown. You will need a stereo screened RCA phono cable. Connect a stereo RCA phono cable from the line output of the preamp to the Subwoofer line inputs. Castle Classic Range except Howard and Oriel A-V AMPLIFIER/STEREO AMPLIFIER RIGHT R.SPKR AMPLIFIER REAR LEFT CENTRE RIGHT FRONT

LEFT C LASSIC S ERIES 1 Page 8 C LASSIC S ERIES L.SPKR Subwoofer or Pre Out (Line Level) Right Speaker Left Speaker Pre Out - Main In Connections If you use a separate stereo pre and power amplifier, or an amplifier where the pre and main amplifier can be separated, connect the subwoofer as shown. There are two alternative methods. Using a Y Adaptor You will need two screened RCA Y' adaptors and two single RCA phono cables. Remove the Pre-Main links on your amplifier.

Connect the socket (common) of an RCA Y' adaptor to one of the mono cables. Connect one leg of the Y' adaptor to the Left Channel Pre Out socket on the amplifier and the other leg to the Left Channel Main In socket. Connect the remaining plug on this combination to the Left Channel Line Level Input on the sub-woofer. Repeat this for the Right Channel. (x2) R.SPKR AMPLIFIER PRE OUT L R MAIN IN L.SPKR AMPLIFIER RIGHT LEFT Right Speaker Left Speaker Placing the Subwoofer in the System Loop You will need two stereo (or four single) screened RCA cables. Connect a Stereo cable from the Line Level Inputs of the sub-woofer to the Pre Out sockets of the amplifier. Now connect a second Stereo cable from the Line Level Outputs of the sub-woofer to the Main

In sockets of the amplifier. Make sure that the Right and Left Channels are not mixed up! The sub-woofer is now inserted within the system loop.

Wiring the Castle Howard R.SPKR AMPLIFIER PRE OUT L R MAIN IN L.SPKR AMPLIFIER RIGHT LEFT Right Speaker Left Speaker Page 113 Connecting Your Subwoofer Control Panel Positioning Castle Classic AV Speakers Front Loudspeakers: The front loudspeakers are placed on either side of the TV monitor, 2 to 3 metres apart. The speakers should be angled slightly so they are aimed towards the listeners. @@@@ @@@@Speech should appear to originate from the actors mouths.

Operating height is important. Ideally the front and centre channel speakers should be at the same height. The front of the cabinet should be level with the TV screen. The Castle Bastion and Keep centre channel loudspeakers may be mounted on a shelf or placed on top of the TV cabinet if it is safe to do so. The Castle Oriel is designed for wall mounting.

The unique design of this loudspeaker enables its use either on the rear or the side walls of the room presenting both direct and ambient reflected sounds SUB

Connecting to a Digital AV Processor A-V AMPLIFIER If your AV processor has a line level or LFE subwoofer output you should use this connection. You will need to purchase a single screened RCA phono lead from your RIGHT LEFT REAR CENTRE dealer. @@@@ @@@@Your subwoofer will probably be used in conjunction with Castle loudspeakers though it will partner any audiophile or top-quality home cinema amplification and loudspeakers. 176mm Draw a horizontal line on the wall and mark off two mounting holes at 176mm centres. Drill and plug two holes. Screw 2 No.8 screws into the holes leaving 7mm protruding. . Connect the connecting wire to the loudspeaker but do not connect the cable to the amplifier. You will need to use low profile cable -your dealer will recommend a suitable product.

Lift the loudspeaker up to the mounting position. Align the keyhole slots over the screw headers and gently pull down until the speaker is securely fastened.

You may now connect the loudspeaker to the amplifier. This operation may need two people. If you are in any doubt about your ability to carry out this procedure, consult a suitably qualified builder or domestic electrician. C LASSIC S ERIES 1 Page 10 C LASSIC S ERIES Unpacking the Subwoofer Open the carton and remove all the top packing pieces. Lift the subwoofer out taking care not to damage the cabinet. When lifting the unit from the carton support it from the bottom. DO NOT attempt to lift the subwoofer out of the carton using the cloth bag. The unit is heavy; if you cannot manage it easily, get someone to assist you.

Positioning the Subwoofer Although the unit may be placed almost anywhere in the room, we recommend that it be placed in front of the listener and as central to the listening position as possible. There should be a mains outlet within easy reach. The subwoofer should not be operated within 450mm of a television set as the drive unit magnet may distort the picture. Remember that there should be a line of sight between the listening position and the front of the subwoofer otherwise the handset remote functions will not be operable. We suggest you initially position the subwoofer about 20cm (8 inches) from the wall.

Placing the unit close to the wall will enhance the bass; placing it across the corner of the room will increase the bass further, possibly at the expense of clarity. Do not place the subwoofer close to surfaces or objects that may rattle. The floor under the subwoofer should be sound with no loose floorboards, etc.

Experiment with locations and sources before making a final decision. Connecting AV Speakers Castle Classic Keep or Bastion Before Connecting the Subwoofer Centre # Level the subwoofer taking care to make sure it sits squarely on all its spikes.

To protect sensitive floors a set of spike seats is provided. Refer to Page 3 for instructions on levelling the speakers and the use of spike seats. Switch off your amplifier and all connected source units at the mains. Unplug the power cords to all system components if necessary Make sure the subwoofer is disconnected from the mains and that the ON/OFF switch is OFF Before re-connecting your system to the AC power supply, check that all the connections are properly made Check that all speaker terminals are done up tightly.



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Ensure that there are no strands of wire shorting adjacent speaker terminals Signal cables should be properly terminated and fully screened to minimise hum. If you connect your subwoofer via the low level signal inputs, the cable between your control unit or processor and the subwoofer could be quite long so screening is particularly important. Consult your dealer if in doubt. RIGHT REAR LEFT CENTRE RIGHT FRONT LEFT SUB WOOFER ##### Rear Right Castle Classic Oriel Rear Left Page111 .



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