



NS-AP4400

HOME CINEMA SPEAKER PACKAGE

The Yamaha Commitment:

Audio and visual media, when skillfully integrated, have an enormous potential to excite us, to touch our innermost feelings, and to broadly stimulate our imaginations. Yamaha's unvarying commitment is to create A/V components that make the entertainment experience more dynamic and meaningful, to not only give you pleasure, but to expand and enrich your life.

Out of the hundreds of loudspeaker manufacturers, Yamaha is the only one that also makes musical instruments. YAMAHA audio components and speakers can be found in the homes and recording studios of audiophiles and industry professionals alike. No other company is as intimately involved with the production and reproduction of fine music.

COMPONENTS OF THE PACKAGE

The speaker package "NS-AP4400" is designed for use in multi-channel Audio systems such as home theater system. The package includes a pair of main speaker (NS-AP4400M), a center speaker (NS-AP4400C), and three rear speakers(NS-AP4400S).

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CONSUMER PRECAUTIONS

Read these precautions carefully before operating your NS-AP4400 speakers.

- Since these speakers can be wall mounted, it is essential that they are firmly secured. Be sure to consult a reliable source about the best type of hanger for your particular wall's construction. Secure installation is the purchaser's responsibility.
- Do not attach them to thin plywood or soft wall surface materials as the screws may tear free, causing the speakers to fall and be damaged, or result in personal injury.
- Do not fasten the speakers to walls with nails, adhesives, or other unsafe hardware. Long-term use and vibrations may cause them to pull free.
- Do not place the speakers where they are liable to be knocked over or struck by falling objects. Stable placement will also ensure better sound performance.
- Placing the speakers on the same stand or shelf as a turntable can result in feedback.
- This speaker features magnetically shielded design, but there is still a chance that placing it too close to a TV set might impair picture color. Should this happen, move the speaker away from the TV set.
- Never touch the woofer or tweeter units with your hands or expose them to excessive physical shock. If they are dented or bent, the sound will be distorted.
- Lower the power amplifier/receiver volume control before changing input sources. Never change input sources (for example, FM to CD) at high listening levels. Always turn the receiver / amplifier unit off when installing or removing input cables.
- Anytime you note distortion, reduce the volume control on your power amplifier / receiver to a lower setting. Never allow your power amplifier to be driven into "clipping".
- Do not attempt to clean the speakers with chemical solvents as this might damage the finish. To clean wipe with a dry, soft cloth.
- To prevent the enclosure from warping or discoloring, do not place the speakers where they will be exposed to direct sunlight or excessive humidity.

USING WITH YAMAHA ACTIVE SERVO PROCESSING SUBWOOFERS

This YAMAHA speaker is designed to give excellent balanced sound performance on all channels of a Dolby DIGITAL™ or DTS™ surround system. Since surround systems often contain a lot of very low frequency sounds, we suggest using these speakers in conjunction with one or more powered subwoofers to get the maximum performance from your sound system.

Please refer to your subwoofer owner's manual for proper connection instructions

CONNECTIONS TO THE AMPLIFIER OR RECEIVER

To assure low distortion on program peaks, your amplifier or receiver should be capable of delivering at least 10 watts RMS (continuous sine-wave power) per channel. This speaker can be used safely with amplifiers rated at up to 30 watts RMS per channel.

Amplifiers rated at higher than 30 watts RMS (continuous sine-wave power) per channel must be used with care.

CONNECTIONS

- Check to make sure that the power has been turned off before making connections.
- Connect the (+) terminal of the amplifier to the (+) terminal of the Speaker.
- Connect the (-) terminal of the amplifier to the (-) terminal of the Speaker.
- Reversing polarity (+/-) will result in unnatural sound reproduction.

PROCEDURE

For connections, keep the speaker cords as short as possible. Do not bundle or roll up the excess part of the cords. If the connections are faulty, no sound will be heard from the speakers. Make sure that the + and - polarity markings of the speaker cords are observed and set correctly. If these cords are reversed, the sound will be unnatural and lack bass.

Main/center/rear speakers

One side of the provided speaker cord has white line and the other side has no line.

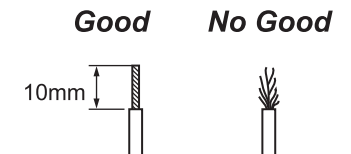
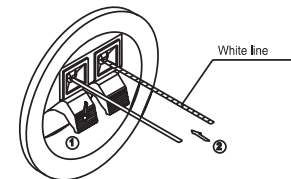
Connect the (+) terminals on both the speaker and the amplifier using the side with a white line.

Connect the (-) terminals on both components using the side with no line.

How to Connect:

- ① Press and hold the terminal's tab, as shown the figure.
- ② Insert the bare wire end properly in to the terminal hole.
[Remove approx. 10mm(3/8") insulation from the speaker cord.]

Red: positive(+)
Black: negative(-)



- ③ Release your finger from the tab to allow it to lock securely on the cord's wire end.
- ④ Test the firmness of the connection by pulling lightly on the cord at the terminal.

Notes

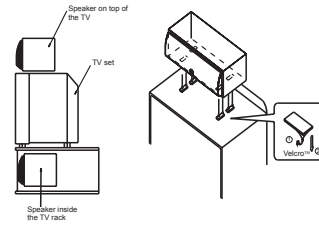
Do not let the bare speaker wires touch each other as this could damage the speaker or the amplifier, or both of them.

SETTING UP THE SPEAKERS

Mounting the center speaker

Place the center speaker on top of the TV, on the floor under the TV or inside the TV rack so that it is stable.

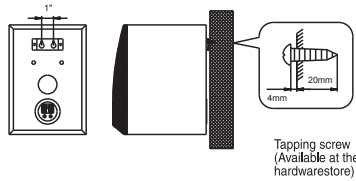
When placing the speaker on top of the TV, inside of the Rack or on top of the TV Stand horizontally or vertically, put the provided Velcro strips at two points on both the bottom of the speaker and top of the TV, to prevent the speaker from falling.



Notes

- Do not place the speaker on top of the TV whose area is smaller than the bottom area of the speaker. The speaker may fall and might cause personal injury.
- Though this speaker is a magnetically shielded type, there may be some influence on a TV picture depending on the type of TV or the placement of the speaker. In such a case, place the speaker apart from TV so that there is no influence on TV picture.

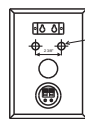
Mounting the rear speaker



Fasten screws into a firm wall or wall support as shown in the figure, and hang the holes of the mounting bracket on the protruding screws.

- ★Make sure that the screws are securely caught by the narrow sections of the "key hole" opening.

You can also use the screw holes on the back of the speaker for installing the speakers on commercially available speaker brackets (if you do not use the original mounting brackets.)



A screw with a diameter of 1/5" can be used.
(Hole depth: 9/16")

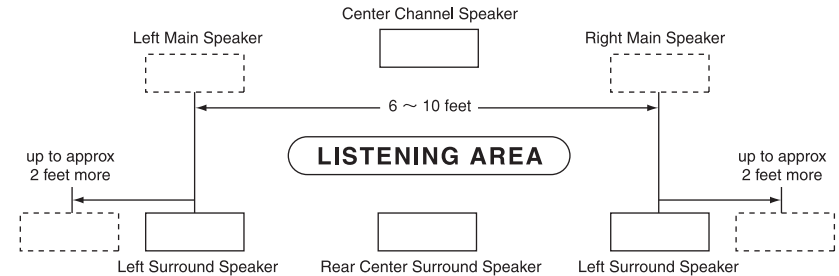
WARNING

- Each speaker weight 4.41 lbs (2.0 kg). Do not mount them on thin plywood or a wall with soft surface material. If mounted, the screw may come out of the flimsy surface and the speakers may fall. This damages the speakers or causes personal injury.
- Do not install the speakers to a wall with nails, adhesives, or any other unstable hardware.
- To avoid accidents resulting from tripping over loose speaker cords, fix them to the wall.
- Secure installation is the purchaser's responsibility.

SPEAKER PLACEMENT

This speaker is designed to be used as a main, center, surround or effects speaker;

- Main speaker** placement should be separated by distance of 6-10ft. If they are placed too close together, there will be a reduction in the stereo effect. Conversely, if placed too far apart, the so called "middle-omission" effect will occur and the vocal center fill will be lost. Height of the speaker should be at least at ear level.
- Center channel speakers** should be placed centered above or below the TV.
- Surround speakers** should ideally be placed behind the listening area. At least as far apart as the main speakers and up to 2 additional feet apart per side. The height of the speaker should be at a minimum of ear level or preferably somewhat higher.



SPECIFICATIONS

Model	NS-AP4400		
Front Speaker	NS-AP4400M	Rear Speaker	NS-AP4400S
Type	3-way Bass reflex Wooden box	Type	2-way Bass reflex Wooden box
Speaker: Woofer	6 1/2" Pulp cone and Cloth surround	Speaker: Woofer	4" Pulp cone and Cloth surround
Speaker: Mid Range	3 1/5" Pulp cone and Cloth surround	Speaker: Tweeter	1/2" Balance dome
Speaker: Tweeter	4/5" Soft dome	Frequency Range	90Hz - 28kHz (-10dB)
Frequency Range	50Hz - 28kHz (-10dB)	Impedance	6 ohms
Impedance	6 ohms	Nominal Input	30w
Nominal Input	40w	Maximum Input	100w
Maximum Input	100w	Sensitivity (dB/2.83. 1m)	88dB
Sensitivity(dB/2.83. 1m)	87dB	Dimension (HxWxD)	9 1/4"x5 11/16"x8"
Dimension(HxWxD)	16 3/8"x8 3/8"x10 1/16"	Weight	4.41lbs
Weight	11.23lbs	Magnetic Shielding	No
Magnetic Shielding	Yes		
Center Speaker	NS-AP4400C	Accessories	120" Bulk Speaker Wire 1"x2" Velcro™ 4pcs
Type	2-way Bass reflex Wooden box		
Speaker: Woofer	4" Pulp cone and Cloth surround		
Speaker: Tweeter	4/5" Soft dome		
Frequency Range	80Hz-28kHz (-10dB)		
Impedance	6 ohms		
Nominal Input	40w		
Maximum Input	100w		
Sensitivity (dB/2.83. 1m)	89dB		
Dimension (HxWxD)	5 1/8"x16 1/8"x8"		
Weight	8.59lbs		
Magnetic Shielding	Yes		

*Specifications subject to change without notice due to product improvements.