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NS-AP1405BL

HOME CINEMA SPEAKER PACKAGE

Main, Center and Surround Speakers

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.

KEY FEATURES OF THE NS-AP1405BL SPEAKER PACKAGE ARE:

- Developed to give high performance on all channels
- 2-Way Acoustic Suspension design
- Ideal for Dolby DIGITAL™ or DTS™ surround systems and other high quality home theater applications
- Utilized as a main speaker, center channel speaker and surround speaker
- Fully voice-matched system
- Can be used on shelf, stand or wall-mounted

Owner's Manual

Consumer Precautions	1
Connections to the Amplifier or Receiver	1
Using with Yamaha Active Servo Processing Subwoofers	1
Setting up the Speakers	2
Speaker Placement	2
Specifications	2

IMPORTANT:

Please record the serial number of your loudspeakers in the space below.

Model NS-AP1405BL Serial No. _____

The serial number is located on the rear of each unit.
Retain this Owner's Manual in a safe place for future reference.

CONSUMER PRECAUTIONS

Read these precautions carefully before operating your NS-AP1405BL 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 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.
- 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

The 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.

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

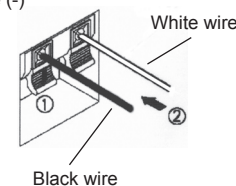
PROCEDURE

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/Surround Speakers

One side of the provided speaker wire is white and the other side is black. Connect the (+) terminals on both the speaker and the amplifier, using the white wire. Connect the (-) terminals on both components using the black wire.

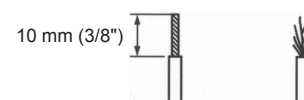
White: positive (+)
Black: negative (-)



How to Connect

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

Good No Good

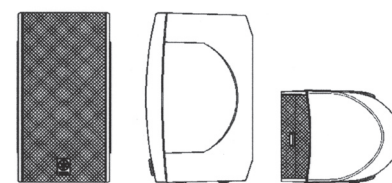


- 3 Release your finger from the tab to allow it to lock securely on the cord's wire end.
- 4 Test the firmness of the connection by pulling lightly on the cord at the terminal.

NOTES

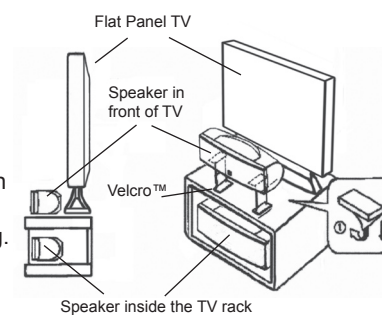
Do not let the bare speaker wires touch each other as this could damage the speaker, the amplifier, or both.

SETTING UP THE SPEAKERS



Vertical position Horizontal position

Main and surround speakers can be positioned horizontally or vertically. Please install rubber feet (included) to prevent slipping movement



Mounting the center speaker

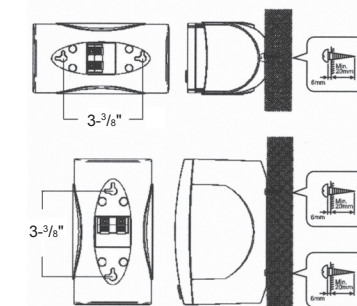
Place the center speaker in front of the TV, on the floor under the TV or inside the TV rack, so that it is stable. When placing the speaker in front of the TV, put the provided Velcro™ strips at two points on both the bottom of the speaker and on the surface in front of the TV to prevent the speaker from falling. Velcro™ strips may also be used to secure the speaker inside the TV rack.

Notes

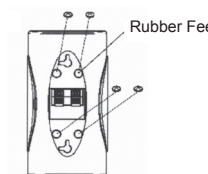
- Do not place the speaker in front of the TV if the area is smaller than the bottom area of the speaker. The speaker may fall and might cause personal injury.
- If a CRT (tube-style) TV is being used, the speakers may cause some influence on the TV picture. To prevent this, place speakers apart from the TV.

Mounting the main and surround speakers

Please place rubber feet (included) as shown in the diagram prior to mounting the speakers on the wall.



Tapping screw (available at the hardware store)



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 "keyhole" opening. Main and surround speakers can be mounted horizontally or vertically.

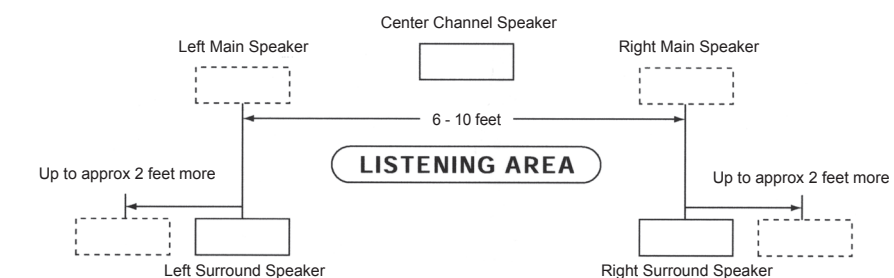
WARNING

- Each speaker weighs 1.26 lbs (0.57kg). Do not mount them on thin plywood or soft surface material. If mounted, the screw may come out of the flimsy surface and the speakers may fall. This may damage the speakers or cause 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 speakers** should be separated by a distance of 6-10 ft. 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 speaker** should be placed in front of 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-AP1405BL
Center Speaker Type	NS-AP1405BLC
Speaker: Woofer	2-Way Acoustic Suspension
Speaker: Tweeter	2-3/4" x 2 Pulp cone and cloth surround
Frequency Range	1/2" Balanced dome
Impedance	120Hz - 50kHz
Nominal Input	8 ohms
Maximum Input	30w
Sensitivity	100w
Crossover Frequency	(dB/2.83v. 1m) 81dB
Dimensions (HxWxD)	17,000Hz
Weight	3-3/8" x 9-7/8" x 4-3/8" (92x250x111mm)
Finish	2.1 lbs (.95kg)
Magnetic Shielding	Black
	No
Main and Surround Type	NS-AP1405BLS
Speaker: Woofer	2-Way Acoustic Suspension
Speaker: Tweeter	2-3/4" Pulp cone and cloth surround
Frequency Range	1/2" Balanced dome
Impedance	120Hz - 50kHz
Nominal Input	6 ohms
Maximum Input	24w
Sensitivity	100w
Crossover Frequency	(dB/2.83v. 1m) 77dB
Dimensions (HxWxD)	17,000Hz
Weight	6-3/8" x 3-3/8" x 4-1/8" (168x92x106mm)
Finish	1.26 lbs (0.57kg)
Magnetic Shielding	Black
	No
Accessories	80' Bulk Speaker Wire
	3/8" x 3/32" Rubber Feet x 16 pcs
	1-17/32" x 2" Velcro™ x 2 pcs

*Specifications subject to change without notice due to product improvements