U

YAMAHA

NS-P110
NS-P116

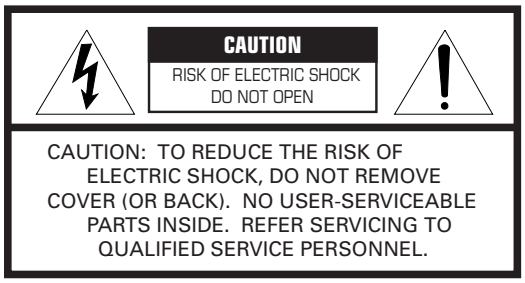
(NS-P110/NS-P116: NX-E130 + NX-C130 + SW-P130)

HOME CINEMA 5.1CH SPEAKER PACKAGE
HOME CINEMA 6.1CH SPEAKER PACKAGE

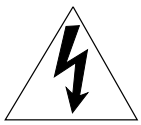
Advanced Y·S·T

OWNER'S MANUAL

IMPORTANT SAFETY INSTRUCTIONS



- Explanation of Graphical Symbols



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert you to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert you to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

IMPORTANT

Please record the serial number of this system in the space below.

Model:

Serial No.:

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

1 Read these instructions.

2 Keep these instructions.

3 Heed all warnings.

4 Follow all instructions.

5 Do not use this apparatus near water.

6 Clean only with dry cloth.

7 Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions.

8 Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9 Do not defeat the safety purpose of the polarized or grounding-type plug. 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 wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10 Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11 Only use attachments/accessories specified by the manufacturer.

12 Use only with the 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.

13 Unplug this apparatus during lightning storms or when unused for long periods of time.

14 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

- Be sure to allow spaces of at least 20 cm above, behind and on both sides of the subwoofer.
- Do not place the following objects on this unit:
  A vessel with water in it.
  If the vessel falls by vibrations and water spills, it may cause damage to the unit, and/or you may get an electric shock.

For Canadian Customers

To prevent electric shock, match wide blade of plug to wide slot and fully insert.

This Class B digital apparatus complies with Canadian ICES-003.

FCC INFORMATION (for US customers only)

1. **IMPORTANT NOTICE : DO NOT MODIFY THIS UNIT!**
   This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Yamaha may void your authority, granted by the FCC, to use the product.
2. **IMPORTANT :** When connecting this product to accessories and/or another product use only high quality shielded cables. Cable/s supplied with this product MUST be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the USA.
3. **NOTE :** This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class "B" digital devices. Compliance with these requirements provides a reasonable level of assurance that your use of this product in a residential environment will not result in harmful interference with other electronic devices.

   This equipment generates/uses radio frequencies and, if not installed and used according to the instructions found in the users manual, may cause interference harmful to the operation of other electronic devices.

Compliance with FCC regulations does not guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the unit "OFF" and "ON", please try to eliminate the problem by using one of the following measures:

Relocate either this product or the device that is being affected by the interference.

Utilize power outlets that are on different branch (circuit breaker or fuse) circuits or install AC line filter/s.

In the case of radio or TV interference, relocate/reorient the antenna. If the antenna lead-in is 300 ohm ribbon lead, change the lead-in to coaxial type cable.

If these corrective measures do not produce satisfactory results, please contact the local retailer authorized to distribute this type of product. If you can not locate the appropriate retailer, please contact Yamaha Electronics Corp., U.S.A. 6660 Orangethorpe Ave, Buena Park, CA 90620.

The above statements apply ONLY to those products distributed by Yamaha Corporation of America or its subsidiaries.

We Want You Listening For A Lifetime

YAMAHA and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion – and, most importantly, without affecting your sensitive hearing.

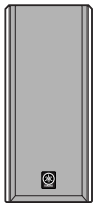
Since hearing damage from loud sounds is often undetectable until it is too late, YAMAHA and the Electronic Industries Association's Consumer Electronics Group recommend you to avoid prolonged exposure from excessive volume levels.

UNPACKING

Please check to make sure all listed items are included.

- Front and rear speakers
  (and rear center speaker for NS-P116)

NX-E130



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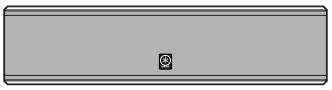
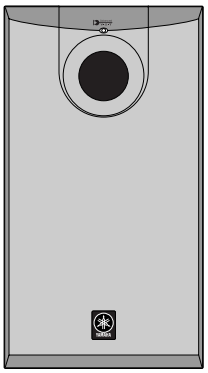
- Center speaker

NX-C130



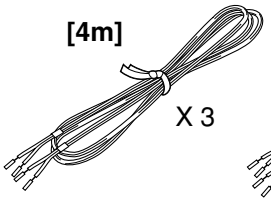
- Subwoofer

SW-P130



- Speaker cables

[4m]



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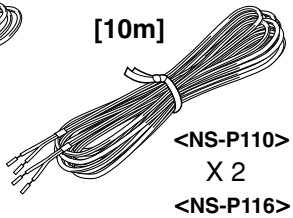
[10m]



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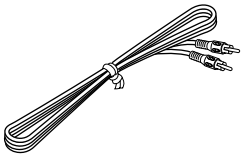
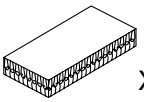
- Subwoofer cable

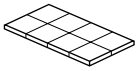


- Fasteners (for NX-C130)



X 2

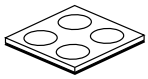
- Nonskid pads (for NX-E130)



<NS-P110>
X 2

<NS-P116>
X 3

- Nonskid pads (for SW-P130)

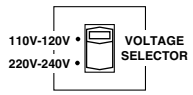


CAUTION: Read this before operating your unit.

- To assure the finest performance, please read this manual carefully. Keep it in a safe place for future reference.
- Install the speakers in a cool, dry, clean place – away from windows, heat sources, sources of excessive vibration, dust, moisture and cold. Avoid sources of humming (transformers, motors). To prevent fire or electric shock, do not expose the speakers to rain or water.
- To prevent the enclosure from warping or discoloring, do not place the speakers where they will be exposed to direct sunlight or excessive humidity.
- Avoid installing the speakers where foreign objects may fall onto them and/or where they may be exposed to liquid dripping or splashing.
  Do not place the following objects on top of the speakers:
  - Other components, as they might cause damage and/or discoloration on the surface of the speakers.
  - Burning objects (i.e. candles), as they might cause fire, damage to the speakers and/or personal injury.
  - Containers with liquid in them, as they might cause electric shock to the user and/or damage to the speakers.
- 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 shelf or rack as the turntable can result in feedback.
- Secure placement or installation is the owner's responsibility. YAMAHA shall not be liable for any accident caused by improper placement or installation of speakers.
- Any time you note distortion, reduce the volume control on your amplifier to a lower setting. Never allow your amplifier to be driven into "clipping". Otherwise the speakers may be damaged.
- When using an amplifier with a rated output power higher than the nominal input power of the speakers, care should be taken never to exceed the speakers' maximum input.
- Do not attempt to clean the speakers with chemical solvents as this might damage the finish. Use a clean, dry cloth.
- Do not attempt to modify or fix the speakers. Contact qualified YAMAHA service personnel when any service is needed. The cabinet should never be opened for any reason.
- Be sure to read the "TROUBLESHOOTING" section regarding common operating errors before concluding that the speakers are faulty.

For SW-P130

- Do not operate this unit upside down. It may overheat, possibly causing damage.
- Do not use excessive force on switches, controls or connection wires. When moving this unit, first disconnect the power plug and the wires connected to other equipments. Never pull the wires themselves.
- Since this unit has a built-in power amplifier, heat will radiate from the rear panel. Place the unit apart from the walls, allowing at least 20 cm of space above, behind and on both sides of the unit to prevent fire or damage. Furthermore, do not position with the rear panel facing down on the floor or other surfaces.
- When using a humidifier, be sure to avoid condensation inside this unit by allowing enough spaces around this unit or avoiding excess humidification. Condensation might cause a fire, damage to this unit, and/or electric shock.
- Do not cover the rear panel of this unit with a newspaper, a tablecloth, a curtain, etc. in order not to obstruct heat radiation. If the temperature inside this unit rises, it may cause fire, damage to this unit and/or personal injury.
- Do not plug in this unit to a wall outlet until all connections are completed.
- The voltage to be used must be the same as that specified on the rear panel. Using this unit with a higher voltage than specified is dangerous and may cause fire, damage to this unit, and/or personal injury. YAMAHA will not be held responsible for any damage resulting from use of this unit with a voltage other than specified.
- To prevent lightning damage, disconnect the AC power plug when there is an electric storm.
- Super-bass frequencies reproduced by this unit may cause a turntable to generate a howling sound. In such a case, move this unit away from the turntable.
- This unit may be damaged if certain sounds are continuously outputted at high volume level. For example, if 20 Hz–50 Hz sine waves from a test disc, bass sounds from electronic instruments, etc. are continuously outputted, or when the stylus of a turntable touches the surface of a disc, reduce the volume level to prevent this unit from being damaged.
- If you hear distorted noise (i.e. unnatural, intermittent "rapping" or "hammering" sounds) coming from this unit, reduce the volume level. Extremely loud playing of a movie soundtrack's low frequency, bass-heavy sounds or similarly loud popular music passages can damage this speaker system.
- Vibration generated by super-bass frequencies may distort images on a TV. In such a case, move this unit away from the TV set.
- When disconnecting the power cord from the wall outlet, grasp the plug; do not pull the cord.
- When not planning to use this unit for a long period (i.e. vacation, etc.), disconnect the AC power plug from the wall outlet.
- **VOLTAGE SELECTOR**
  (For China, Korean and General models)
  The voltage selector switch on the rear panel of this unit must be set for your local main voltage BEFORE plugging this unit into the AC main supply. Voltages are 110-120/220-240 V AC, 50/60 Hz.



Standby mode
If the POWER switch is set to the ON position and the AUTO STANDBY switch is set to the HIGH or LOW position, this unit turns into the standby mode when no signal is received by this unit for 7 to 8 minutes.
In this state, this unit is designed to consume a very small quantity of power.

WARNING
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

COMPONENTS OF THE PACKAGE

The speaker package “NS-P110 and NS-P116” is designed for use in a multi-channel audio system such as a home theater system.

NS-P110 includes four NX-E130 speaker systems, one NX-C130 speaker system and one SW-P130 subwoofer system.

NS-P116 includes five NX-E130 speaker systems, one NX-C130 speaker system and one SW-P130 subwoofer system.

<NX-E130>

Full range acoustic-suspension speaker system used for the front and rear speakers (and rear center speaker for NS-P116)

<NX-C130>

Full range acoustic-suspension speaker system used for the center speaker

<SW-P130>

Active Servo Processing Subwoofer System with a built-in power amplifier

- This subwoofer system employs Advanced Yamaha Active Servo Technology which YAMAHA has developed for reproducing higher quality super-bass sound. (Refer to page 12 for details on Advanced Yamaha Active Servo Technology.) This super-bass sound adds a more realistic, theater-in-the-home effect to your stereo system.
- The AUTO STANDBY switch saves you the trouble of setting the POWER switch to the ON or OFF position.

CONTENTS

SETTING UP THE SPEAKERS

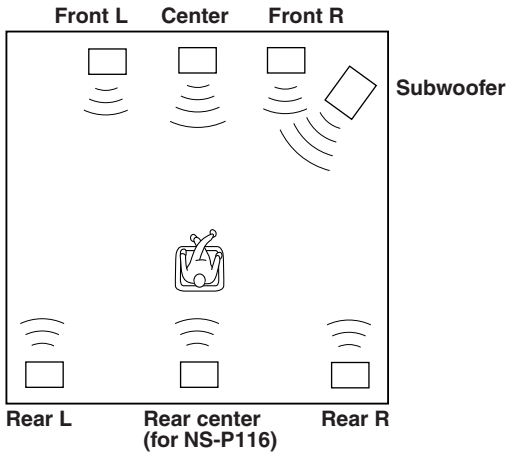
Before making connections, place all speakers in their respective positions. The positioning of the speakers is important because it controls the whole sound quality of this system.
Place the speakers depending on your listening position by following the instructions below.

Speaker configuration

<NS-P110>
This speaker package employs a 6 speaker configuration: 2 front speakers, 2 rear speakers, a center speaker and a subwoofer.
The front speakers emit main source sound. The rear speakers emit surround sounds, and the center speaker emits center sounds (dialog etc.). The subwoofer emits reinforcing low frequencies on your audio system.

<NS-P116>
This speaker package employs a 7 speaker configuration: 2 front speakers, 2 rear speakers, a center speaker, a rear center speaker and a subwoofer.
The front speakers emit main source sound. The rear and rear center speakers emit surround sounds, and the center speaker emits center sounds (dialog etc.). The subwoofer emits reinforcing low frequencies on your audio system.

Note
In this speaker package, the same speakers (NX-E130) are used for the front and rear speakers (and rear center speaker for NS-P116).



Placing speakers

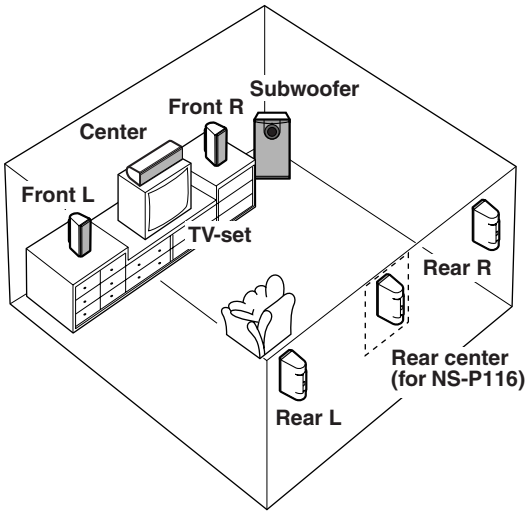
Front speakers: On both sides of and at approximately the same height as the TV set.

Rear speakers: Behind your listening position, facing slightly inward. About 1.8 m (approx. 6 feet) from the floor.

Center speaker: Precisely between the front speakers.

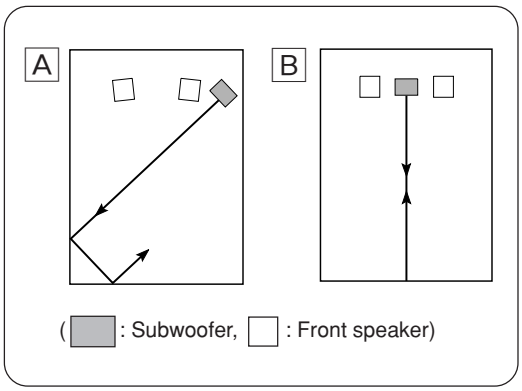
Rear center speaker (for NS-P116):
Precisely between the rear speakers.

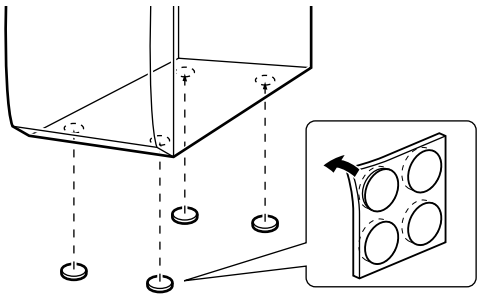
Subwoofer: The position of the subwoofer is not so critical because low bass tones are not highly directional.
Refer to “Placing the subwoofer” on page 4 for a recommended positioning of the subwoofer.



These speakers feature a magnetically shielded design, but there is still a chance that placing them too close to a TV set might impair picture color. Should this happen, move the speakers away from the TV set.

■ Placing the subwoofer





It is recommended to place the subwoofer on the outside of either the right or the left front speaker. (See fig. A .) The placement shown in fig. B is also possible, however, if the subwoofer system is placed directly facing the wall, the bass effect may die because the sound from it and the sound reflected by the wall may cancel out each other. To prevent this from happening, face the subwoofer system at an angle as shown in fig. A.

Note

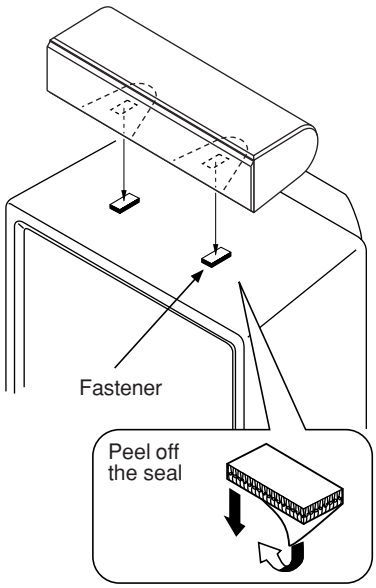
There may be a case that you cannot obtain enough super-bass sounds from the subwoofer when listening in the center of the room. This is because “standing waves” have been developed between two parallel walls and they cancel the bass sounds.
In such a case, face the subwoofer obliquely to the wall. It also may be necessary to break up the parallel surfaces by placing bookshelves etc. along the walls.

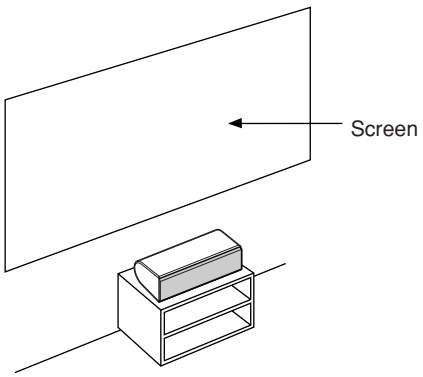
Use the nonskid pads

Put the provided nonskid pads at the four corners on the bottom of the subwoofer to prevent the subwoofer from moving by vibrations etc.

■ Placing the center speaker

You can place the speaker on top of the TV if the top is flat, on the floor under the TV, or inside the TV rack . Be sure to place the speaker in a stable position.
When placing the speaker on top of the TV, to prevent the speaker from falling, attach the provided fasteners at two points on the bottom of the speaker and on the top of the TV.



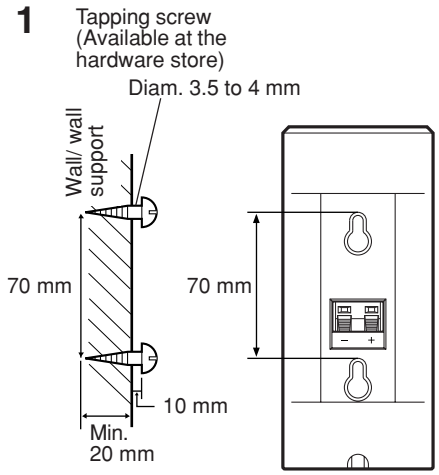


Notes

- **Do not place the speaker on top of a TV whose area is smaller than the bottom of the speaker. If placed, the speaker may fall and cause injury.**
- **Do not place the speaker on top of a TV if the top is inclined.**
- **Do not touch the adhesive surface after peeling off the seal as this will weaken its adhesive strength.**
- **Thoroughly wipe clean the surface where the fastener is to be applied. Note that adhesive strength is weakened if the surface is dirty, oily or wet and that this may cause the center speaker to fall.**

■ Mounting the front/rear speakers (and rear center speaker for NS-P116)

1



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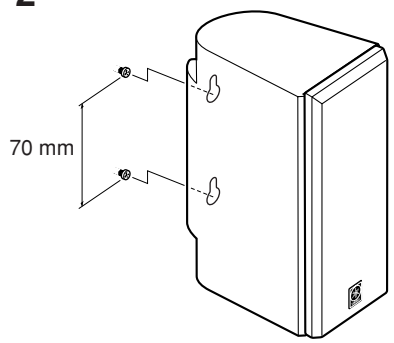
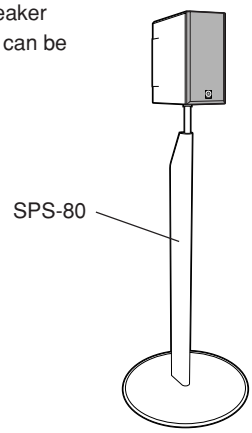


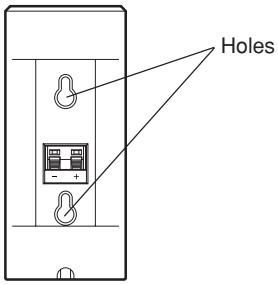
Using the Yamaha Speaker Stand SPS-80 (option)

By using the Yamaha Speaker Stand SPS-80, speakers can be placed on the floor.



* The SPS-80 is not available in some areas.

Mount the front/rear speakers (and rear center speaker for NS-P116) on a shelf, rack or directly on the floor, or hang them on the wall.



To mount the speakers on a wall by using the holes on the speakers' back panels

1 Fasten screws into a firm wall or wall support as shown in the figure.

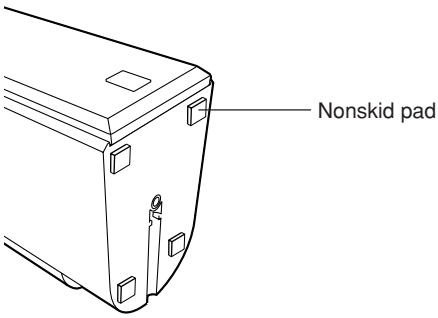
2 Hang the speaker by mounting the holes on the protruding screws.

* Make sure that the screws are securely affixed by the narrow parts of the holes.

WARNING

- **Each speaker weighs 0.9 kg (2 lbs.). Do not mount them on thin plywood or a wall composed of a soft surface material. If mounted, the screws may pull out of the flimsy surface and the speakers may fall. This may damage the speakers or cause personal injury.**
- **Do not affix the speakers to a wall using nails, adhesives, or any other unstable hardware. Long-term use and vibrations may cause the speakers to fall.**
- **To avoid accidents resulting from tripping over loose speaker cables, fix the cables to the wall.**
- **Select an appropriate position on the wall to mount the speaker so that no one will injure his/her head or face.**

■ Placing the the front/rear speakers (and rear center speaker for NS-P116)



When placing the speakers on a flat surface, attach the included nonskid pads to the corners on the bottom of the speakers as shown on the left. This prevents the speakers from sliding around.

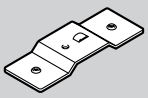
* For NS-P116, the nonskid pads include four spare ones.

If you want to mount a speaker on a commercially available speaker stand for the front/rear speakers (and rear center speaker for NS-P116)

The following optional accessories are needed for mounting the speakers on commercially available speaker stands.

* Inquire at your authorized YAMAHA dealer for the optional accessories.

Mounting bracket (AAX34790)



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Screw (AAX12390)

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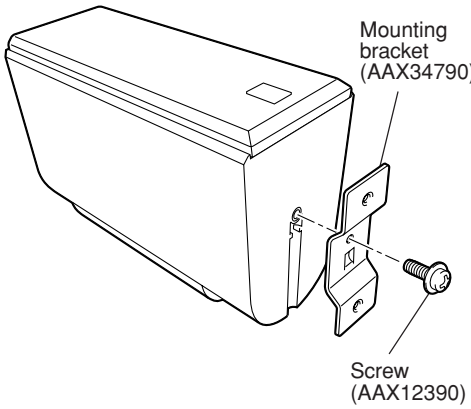
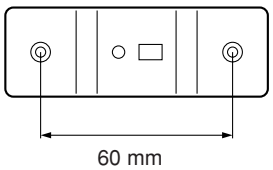
X 5





1 Attach the bracket (AAX34790) to the bottom of the speaker by using the screw (AAX12390) so that the convex part of the bracket fits in the grooved part on the bottom of the speaker as shown on the left.

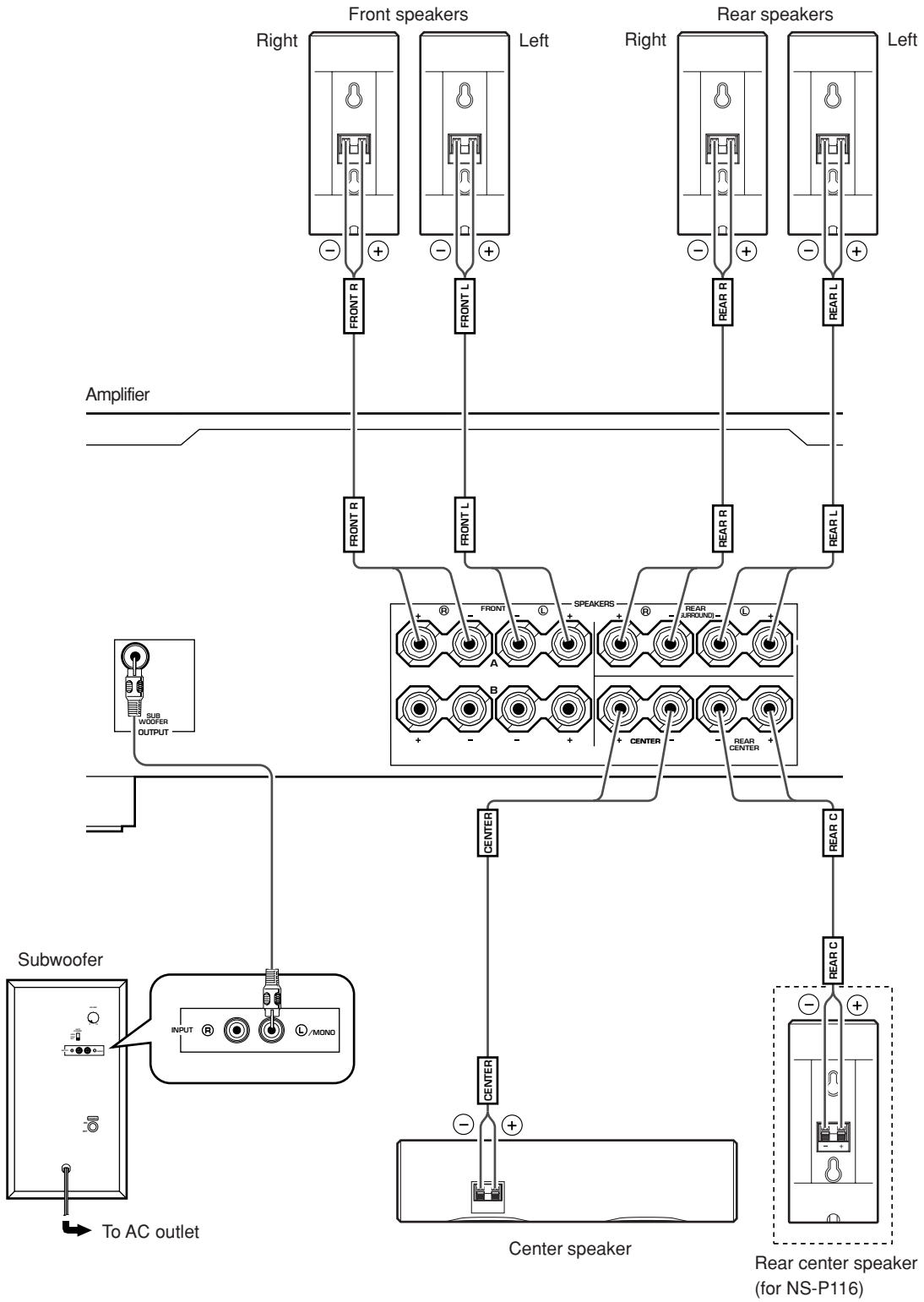
2 Mount the speaker on the speaker stand by using a pair of screw holes (at an interval of 60 mm) on the bracket.

* Those screw holes can be used with M4 screws only.

CONNECTIONS

Caution: Plug in the subwoofer and other audio/video components after all connections are completed.

■ An example of basic connections



- Connect the front, center and rear speakers (and rear center speaker for NS-P116) to the speaker output terminals of your amplifier with the provided speaker cables.
  * The provided speaker cables have labels marked FRONT L, FRONT R, CENTER, REAR L, REAR R (and REAR C for NS-P116). Connect each speaker cable to the corresponding speaker by following the figure on page 7.

    (The speaker cables marked FRONT L/R are used for connecting the front speakers to the FRONT speakers' terminals on the amplifier.)
  * Connect each speaker making sure not to reverse the polarity (+, –). If the speaker is connected with reversed polarity, the sound will be unnatural and lack bass.
  * For the front and rear speakers only, connect one speaker to the left (marked L) terminals of your amplifier, and another speaker to the right (marked R) terminals.

- Connect the subwoofer to the line output (pin jack) terminal(s) of the amplifier.
  * To connect with a YAMAHA DSP amplifier (or AV receiver), connect the SUBWOOFER (or LOW PASS etc.) terminal on the rear of the DSP amplifier (or AV receiver) to the Ⓛ/MONO INPUT terminal of the subwoofer.
  * To connect the subwoofer to the SPLIT SUBWOOFER terminals on the rear of the DSP amplifier, connect them to both the left Ⓛ/MONO and right Ⓡ INPUT terminals of the subwoofer.

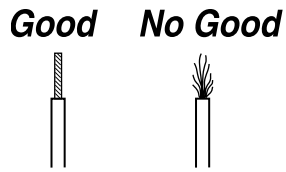
Note
When connecting to a monaural line output terminal of the amplifier, connect to the Ⓛ/MONO INPUT terminal.

■ How to connect speaker cables

For connections, keep the speaker cables as short as possible. Do not bundle or roll up the excess part of the cables. If the connections are faulty, no sound will be heard from the speakers.

Before connecting

Remove the insulation coating at the extremity of each speaker cable by twisting the coating off.



One side of the provided speaker cable has a white broken line and the other side has no line.
Connect the (+) terminals on both the speaker and the amplifier using the side with a white broken line. Connect the (–) terminals on both components using the side with no line.

How to Connect:

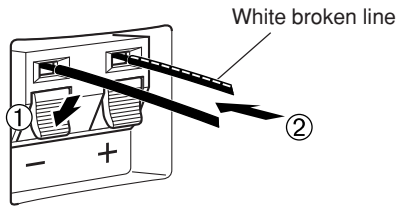
① Press and hold the terminal's tab, as shown in the figure.

② Insert the bare wire.

③ Release your finger from the tab to allow it to lock securely on the cable's wire end.

④ Test the firmness of the connection by pulling lightly on the cable at the terminal.

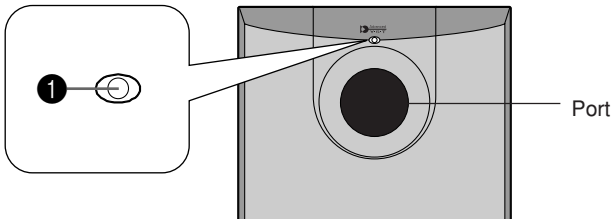
Red: positive (+)
Black: negative (–)



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

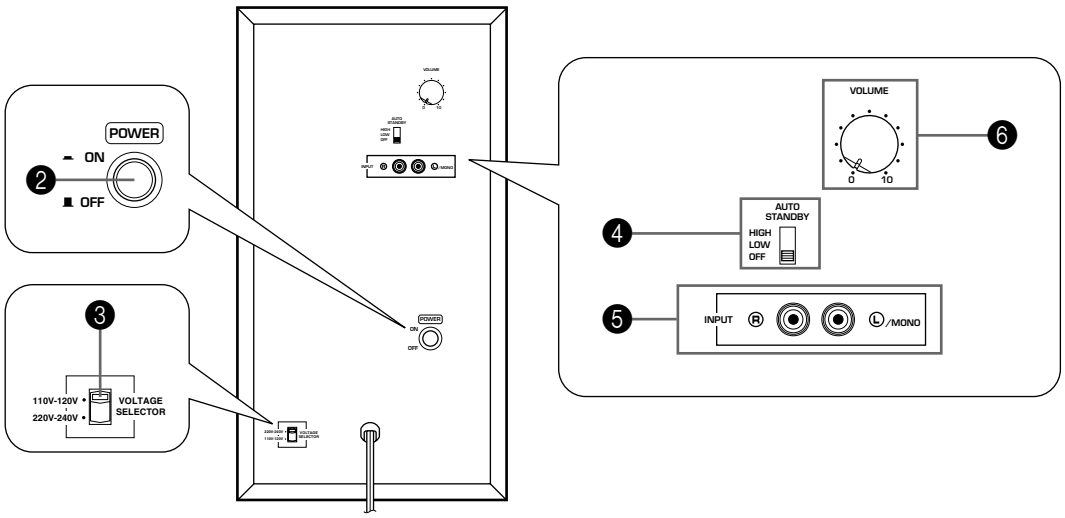
USING THE SUBWOOFER (SW-P130)

■ Controls and their functions



Front panel

Rear panel



❶ Power indicator
Lights up GREEN when the **POWER** switch (❷) is pressed in to the ON position and goes off when set to the OFF position.
* Standby mode
If the **POWER** switch (❷) is pressed in to the ON position and the **AUTO STANDBY** switch (❹) is set to the HIGH or LOW position, this indicator lights up RED when no signal is received by the subwoofer.

❷ **POWER** switch
Press this switch to the ON position to turn on the power of the subwoofer. When the power of the subwoofer is on, the power indicator (❶) on the front panel lights up GREEN. Press this switch again to set to the OFF position to turn off the power of the subwoofer.

❸ **VOLTAGE SELECTOR** switch
(For China, Korean and General models)
If the preset setting of the switch is incorrect, set the switch to the proper voltage range (220V-240V or 110V-120V) of your area.
Consult your dealer if you are unsure of the correct setting.
WARNING
Be sure to unplug the subwoofer before setting the VOLTAGE SELECTOR switch correctly.

❹ **AUTO STANDBY (HIGH/LOW/OFF)** switch
This switch is originally set to the OFF position. By setting this switch to the HIGH or LOW position, the subwoofer's automatic power-switching function operates as explained on page 10. If you do not need this function, set to the OFF position.
* Make sure to change the setting of this switch only when the **POWER** switch (❷) is in the OFF position.

❺ **INPUT** terminals
Used to input line level signals from the amplifier.

❻ **VOLUME** control
Adjusts the volume level. Turn the control clockwise to increase the volume, and counterclockwise to decrease the volume.

■ Automatic power-switching function

If the source being played is stopped and the input signal is cut off for 7 to 8 minutes, the subwoofer automatically switches to the standby mode. (When the subwoofer switches to the standby mode by the automatic power-switching function, the power indicator lights up in red.)
When you play a source again, the power of the subwoofer turns on automatically by sensing audio signals input to the subwoofer.
This function will operate by sensing a certain level of low frequency input signal. Usually set the **AUTO STANDBY** switch to the LOW position. However, if the power is not switched on or to the standby mode smoothly, set the switch to the HIGH position. In the HIGH position, the power will turn on even with a low level of input signal. But please be aware that the subwoofer may not switch to the standby mode when there is an extremely low input signal.

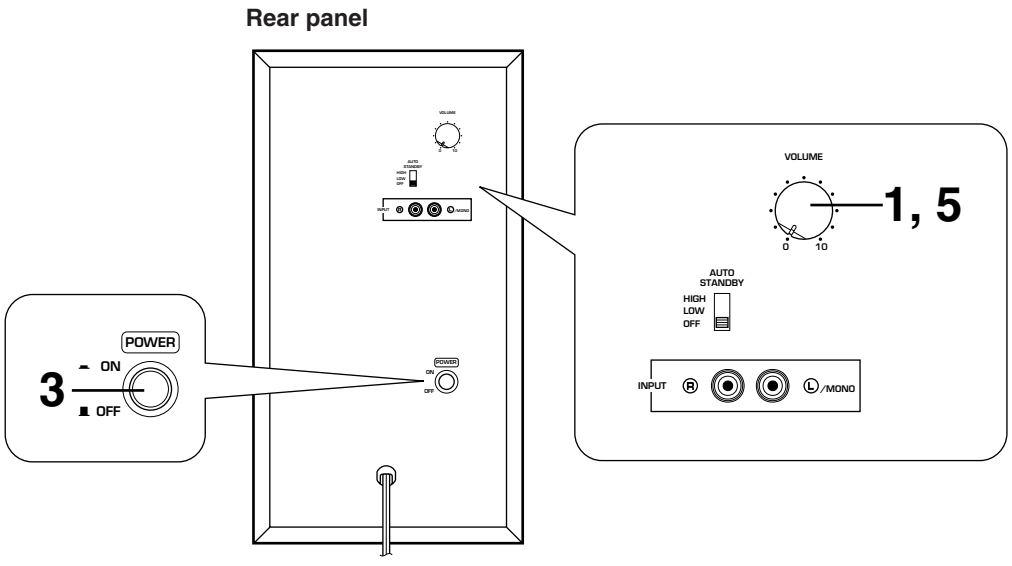
* The power might turn on unexpectedly by sensing noise from other appliances. If that occurs, set the **AUTO STANDBY** switch to the OFF position and use the **POWER** switch to switch the power between ON and OFF manually.
* This function detects the low-frequency components below 200 Hz of the input signals (i.e., the explosion in the action movie, the sound of the bass guitar or the bass drum, etc.).
* The minutes required to switch the subwoofer to the standby mode might change by sensing noise from other appliances.

This function is available only when the power of the subwoofer is on (by pressing the POWER switch).

■ Adjusting the subwoofer before use

Before using the subwoofer, adjust the subwoofer to obtain the optimum volume balance between the subwoofer and the front speakers by following the procedures described below.

Rear panel



1 Set the **VOLUME** control to minimum (0).

2 Turn on the power of all the other components.

3 Press the **POWER** switch to the ON position.

* The power indicator on the front panel lights up in green.

4 Play a source containing low-frequency components and adjust the amplifier's volume control to the desired listening level.

5 Increase the volume gradually to adjust the volume balance between the subwoofer and the front speakers.

Normally, set the control to the level where you can obtain a little more bass effect than when this unit is not used.

- **Once the volume balance between the subwoofer and the front speakers is adjusted, you can adjust the volume of your whole sound system by using the amplifier's volume control.**
  However, if you change the front speakers (NX-E130) to others, you must make this adjustment again.
- **For adjusting the VOLUME control, refer to "Frequency characteristics" below.**

■ Frequency characteristics

Fig. 1 shows the frequency characteristics of the subwoofer.

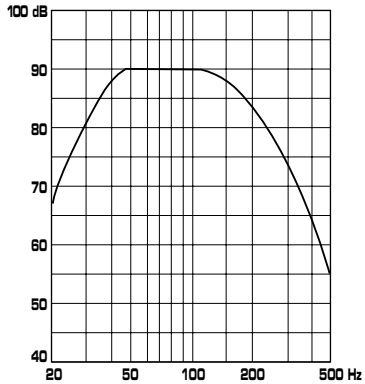
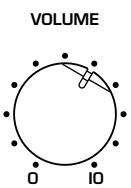


Fig. 1

Fig. 2 shows the frequency characteristics when the subwoofer is combined with NX-E130 and the subwoofer's volume level is set to the figured position.



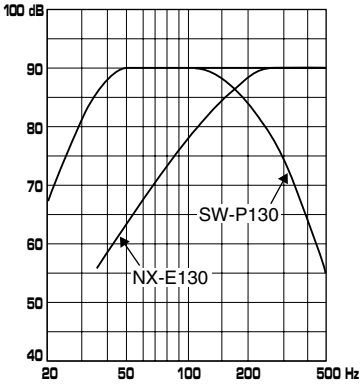


Fig. 2

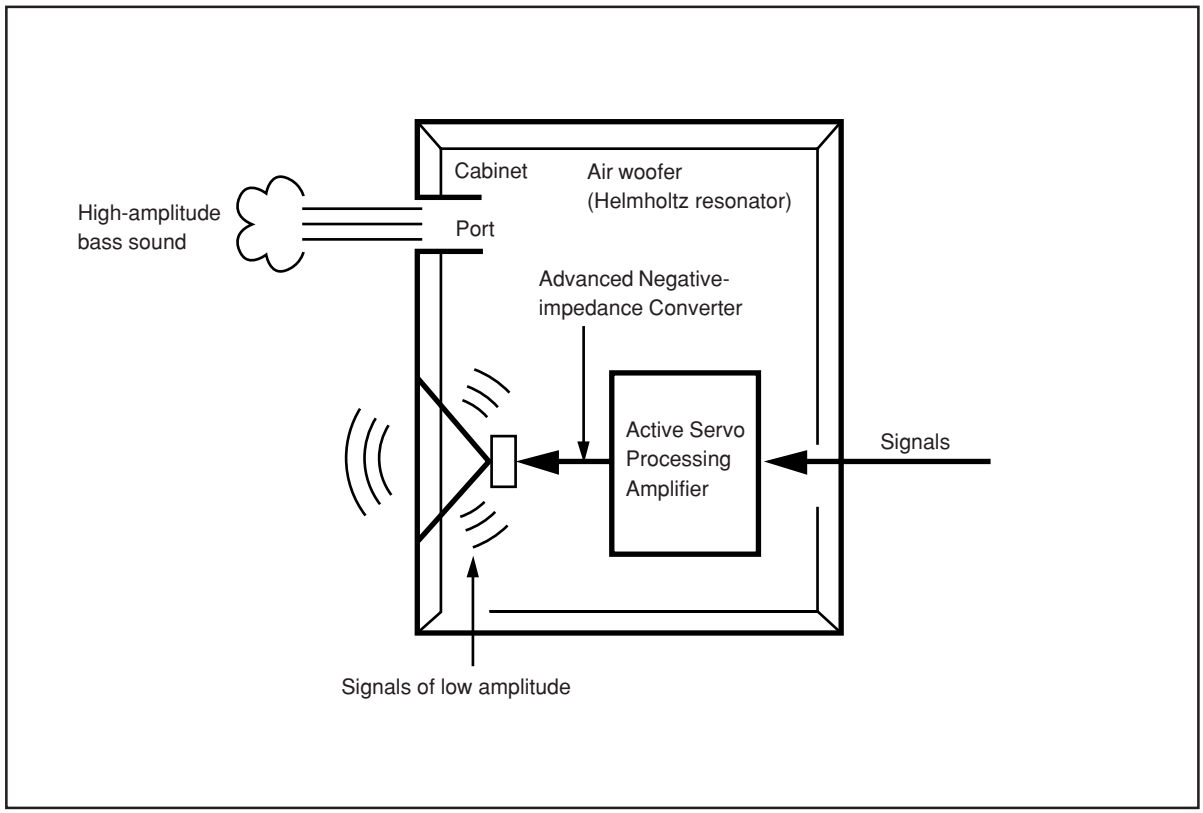
ADVANCED YAMAHA ACTIVE SERVO TECHNOLOGY (for SW-P130)

The theory of Yamaha Active Servo Technology has been based upon two major factors, the Helmholtz resonator and negative-impedance drive. Active Servo Processing speakers reproduce the bass frequencies through an “air woofer”, which is a port or opening in the speaker’s cabinet. This opening is used instead of, and performs the functions of, a woofer in a conventionally designed speaker system. Thus, signals of low amplitude within the cabinet can, according to the Helmholtz resonance theory, be outputted from this opening as waves of great amplitude if the size of the opening and the volume of the cabinet are in the correct proportion to satisfy a certain ratio.
In order to accomplish this, moreover, the amplitudes within the cabinet must be both precise and of sufficient power because these amplitudes must overcome the “load” presented by the air that exists within the cabinet.

Thus it is this problem that is resolved through the employment of a new design in which the amplifier supplies special signals. If the electrical resistance of the voice coil could be reduced to zero, the movement of the speaker unit would become linear with respect to signal voltage. To accomplish this, a special negative-impedance output-drive amplifier for subtracting output impedance of the amplifier is used.

By employing negative-impedance drive circuits, the amplifier is able to generate precise, low-amplitude, low-frequency waves with superior damping characteristics. These waves are then radiated from the cabinet opening as high-amplitude signals. The system can, therefore, by employing the negative-impedance output drive amplifier and a speaker cabinet with the Helmholtz resonator, reproduce an extremely wide range of frequencies with amazing sound quality and less distortion.
The features described above, then, are combined to be the fundamental structure of the conventional Yamaha Active Servo Technology.

Our new Active Servo Technology — Advanced Yamaha Active Servo Technology — adopted Advanced Negative Impedance Converter (ANIC) circuits, which allows the conventional negative impedance converter to dynamically vary in order to select an optimum value for speaker impedance variation. With this new ANIC circuits, Advanced Yamaha Active Servo Technology can provide more stable performance and improved sound pressure compared with the conventional Yamaha Active Servo Technology, resulting in more natural and dynamic bass reproduction.



TROUBLESHOOTING

Refer to the chart below when this unit does not function properly. If the problem you are experiencing is not listed below or if the instructions given below do not help, disconnect the power cord and contact your authorized YAMAHA dealer or service center.

Problem	Cause	What to Do
No sound.	Speaker cables are not connected securely.	Connect them securely.
Sound level is too low.	Speaker cables are not connected correctly.	Connect them correctly, that is L (left) to L, R (right) to R, "+" to "+" and "–" to "–".

For SW-P130

Problem	Cause	What to Do
Power is not supplied even though the POWER switch is set to the ON position.	The power plug is not securely connected.	Connect it securely.
No sound.	The VOLUME control is set to 0.	Turn the VOLUME control to the right (clockwise).
	Speaker cables are not connected securely.	Connect them securely.
Sound level is too low.	Speaker cables are not connected correctly.	Connect them correctly, that is L (left) to L, R (right) to R, "+" to "+" and "–" to "–".
	A source sound with few bass frequencies is played.	Play a source sound with bass frequencies.
	It is influenced by standing waves.	Reposition the subwoofer or break up the parallel surface by placing bookshelves etc. along the walls.
The subwoofer does not turn on automatically.	The POWER switch is set to the OFF position.	Set the POWER switch to the ON position.
	The AUTO STANDBY switch is set to the OFF position.	Set the AUTO STANDBY switch to the "HIGH" or "LOW" position.
	The level of input signal is too low.	Set the AUTO STANDBY switch to the "HIGH" position.
The subwoofer does not turn into the standby mode automatically.	There is an influence of noise generated from external appliances etc.	Move the subwoofer farther away from such appliances and/or reposition the connected speaker cables. Otherwise, set the AUTO STANDBY switch to the "OFF" position.
	The AUTO STANDBY switch is set to the OFF position.	Set the AUTO STANDBY switch to the "HIGH" position.
The subwoofer turns into the standby mode unexpectedly.	The level of input signal is too low.	Set the AUTO STANDBY switch to the "HIGH" position.
The subwoofer turns on unexpectedly.	There is an influence of noise generated from external appliances etc.	Move the subwoofer farther away from such appliances and/or reposition the connected speaker cables. Otherwise, set the AUTO STANDBY switch to the "OFF" position.

SPECIFICATIONS

■ NX-E130, NX-C130

Type ..... Full range acoustic-suspension speaker system
Magnetic shielding type

Driver ..... 5 cm (2") full range cone speaker x 2

Nominal Input Power 30W

Maximum Input Power 100W

Impedance 6Ω

Frequency Response
<NX-E130> ..... 100 Hz to 25 kHz
<NX-C130> ..... 80 Hz to 25 kHz

Sensitivity 86 dB/2.83V/m

Dimensions (W x H x D)
<NX-E130> ..... 72 mm x 164 mm x 111 mm
(2-13/16" x 6-7/16" x 4-3/8")
<NX-C130> ..... 300 mm x 72 mm x 110 mm
(11-13/16" x 2-13/16"x 4-5/16")

Weight
<NX-E130> ..... 0.9 kg (2 lbs.)
<NX-C130> ..... 1.1 kg (2 lbs. 7 oz.)

■ SW-P130

Type ..... Advanced Yamaha Active Servo Technology
Magnetic shielding type

Driver ..... 16 cm (6-1/2") cone woofer

Amplifier Output
U.S.A. and Canada models 55 W/5Ω
Other models 50 W/5Ω

Dynamic Power 100 W/5Ω

Frequency Response ..... 30 Hz to 200 Hz

Power Supply
U.S.A. and Canada models ..... AC 120V, 60 Hz
U.K. and Europe models ..... AC 230V, 50 Hz
Australia model ..... AC 240V, 50 Hz
China, Korean and General models
..... AC 110-120/220-240V, 50/60 Hz

Power Consumption ..... 60 W
(In the standby mode: 0.8 W)

Dimensions (W x H x D) ..... 200 mm x 365 mm x 375 mm
(7-7/8" x 14-7/20" x 14-3/4")

Weight ..... 8.5 kg (18 lbs. 11 oz.)

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

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