YAMAHA

UCAB

NS-SW700

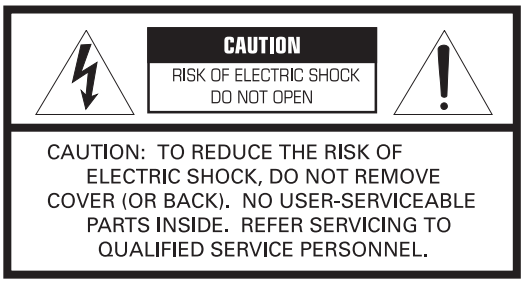
Subwoofer
Caisson de grave

Advanced Y·S·T

QD·Bass TECHNOLOGY

OWNER'S MANUAL
MODE D'EMPLOI

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.

FCC INFORMATION (for US customers)

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.



Information for Users on Collection and Disposal of Old Equipment



This symbol on the products, packaging, and/or accompanying documents means that used electrical and electronic products should not be mixed with general household waste.

For proper treatment, recovery and recycling of old products, please take them to applicable collection points, in accordance with your national legislation and the Directives 2002/96/EC.

By disposing of these products correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.

For more information about collection and recycling of old products, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.

[For business users in the European Union]

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

[Information on Disposal in other Countries outside the European Union]

This symbol is only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.

Thank you for selecting this YAMAHA product.

CAUTION: Read this before operating your unit

Please read the following operating precautions before use. YAMAHA will not be held responsible for any damage and/or injury caused by not following the cautions below.

- To assure the finest performance, please read this manual carefully. Keep it in a safe place for future reference.
- Install this unit 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 electrical shock, do not expose this unit to rain or water.
- Never open the cabinet. If something drops into the set, contact your dealer.
- 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 a fire and/or electric shock.
- To reduce the risk or fire or electric shock, do not expose this unit to rain or moisture.
- Do not use force on switches, controls or connection wires. When moving the unit, first disconnect the power plug and the wires connected to other equipment. Never pull the wires themselves.
- When not planning to use this unit for a long period (ie., vacation, etc.), disconnect the AC power plug from the wall outlet.
- To prevent lightning damage, disconnect the AC power plug when there is an electric storm.
- 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.
- 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 the unit rises, it may cause fire, damage to the unit and/or personal injury.
- Do not place the following objects on this unit:
  Glass, china, small metallic, etc.
  If glass, etc., falls as a result of vibrations and breaks, it may cause bodily injury.
  A burning candle etc.
  If the candle falls as a result of vibration, it may cause fire and bodily injury.
  A vessel containing water
  If the vessel falls as a result of vibration and water spills, it may cause damage to the speaker, and/or you may get an electric shock.

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

- Do not place this unit where foreign material, such as dripping water. It might cause fire, damage to this unit, and/or personal injury.
- Never put a hand or a foreign object into the YST port located on the right side of this unit. When moving this unit, do not hold the port, as it might cause personal injury and/or damage to this unit.
- Never place a fragile object near the YST port of this unit. If the object falls or drops as a result of the air pressure, it may cause damage to the unit and/or personal injury.
- Never open the cabinet. It might cause an electric shock, since this unit uses a high voltage. It might also cause personal injury and/or damage to this unit.
- When using a humidifier, be sure to avoid condensation inside this unit by allowing enough space around this unit or avoiding excess humidification. Condensation might cause fire, damage to this unit, and/or electric shock.
- 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 output 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 output, 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 distortion (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.
- Do not attempt to clean this unit with chemical solvents as this might damage the finish. Use a clean, dry cloth.
- Be sure to read the “TROUBLESHOOTING” section regarding common operating errors before concluding that the unit is faulty.
- Install this unit near the wall outlet and where the AC power plug can be reached easily.
- **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.**

Be sure to allow spaces of at least 20 cm above, behind and on both sides of the unit.

- **VOLTAGE SELECTOR**
  (Asia and General models only)
  The voltage selector switch on the rear panel of this unit must be set to your local main voltage BEFORE plugging this unit into the AC main supply. Voltages are 110/120/220/230-240 V AC, 50/60 Hz.

This unit is not disconnected from the AC power source as long as it is connected to the wall outlet, even if this unit itself is turned off by STANDBY/ON button. In this state, this unit is designed to consume a very small quantity of power.

This unit features a magnetically shielded design, however, there is still a chance that placing it too close to a TV set might impair picture color. Should this happen, move this unit away from the TV set.

For U.K. customers

If the socket outlets in the home are not suitable for the plug supplied with this appliance, it should be cut off and an appropriate 3 pin plug fitted. For details, refer to the instructions described below.

Note: The plug severed from the mains lead must be destroyed, as a plug with bared flexible cord is hazardous if engaged in a live socket outlet.

SPECIAL INSTRUCTIONS FOR U.K. MODEL

IMPORTANT:
THE WIRES IN MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE:
Blue: NEUTRAL
Brown: LIVE
As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows: The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED. Make sure that neither wire is connected to the earth terminal of a three pin plug.

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.

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FEATURES

- This subwoofer system employs Advanced Yamaha Active Servo Technology II, which Yamaha has developed for the production of higher quality, super-bass sound. (Refer to page 14 for details on Advanced Yamaha Active Servo Technology II.) This super-bass sound adds a more realistic, theater-in-the-home effect to your stereo system.
- This subwoofer can be easily added to your existing audio system by connecting to either the speaker terminals or the line output (pin jack) terminals of the amplifier.
- For effective use of the subwoofer, the subwoofer's super-bass sound should be matched to the sounds of your front speakers. You can create the best sound quality for various listening conditions by using the HIGH CUT control and the PHASE switch.
- The Automatic power-switching function saves you the trouble of pressing the STANDBY/ON button to turn the power on and off.
- You can select a bass effect suitable for the source by using the B.A.S.S. button.
- This subwoofer system is equipped with a linear port unique to Yamaha that provides smooth bass response during playback, minimizing extraneous noise not included in the original input signal.

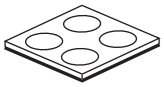
QD·Bass TECHNOLOGY

QD-Bass Technology

QD-Bass (Quatre Dispersion Bass) technology is a Yamaha unique technology to radiate the sound efficiently in four horizontal directions.

SUPPLIED ACCESSORIES

After unpacking, check that the following parts are contained.

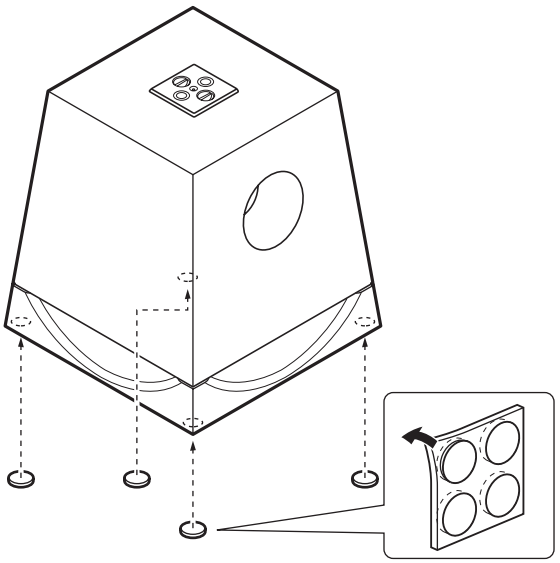


Non-skid pads

ATTACHING THE NON-SKID PADS

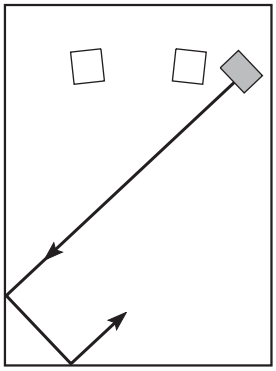
To enjoy the high sound quality, stabilize the subwoofer using the non-skid pads.

Attach the provided non-skid pads in the four corners of the underside of the subwoofer to prevent the subwoofer from moving as a result of vibration, etc.

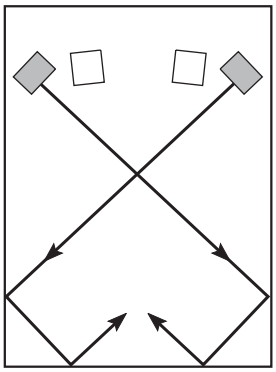


PLACEMENT

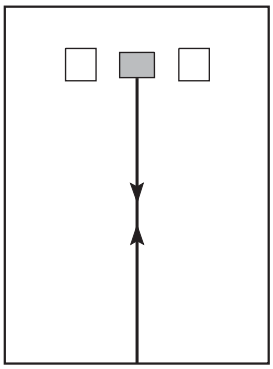
A



B



C



(: subwoofer, : front speaker)

One subwoofer will have a good effect on your audio system, however, the use of two subwoofers is recommended to obtain more effect.

If using one subwoofer, it is recommended to place it on the outside of either the right or the left front speaker. (See fig. A .) If using two subwoofers, it is recommended to place them on the outside of each front speaker. (See fig. B .) The placement shown in fig. C is also possible, however, if the subwoofer system is placed directly facing the wall, the bass effect may suffer due to cancellation of direct and reflected sounds. To prevent this from happening, place the subwoofer system at an angle, as in fig. A or B .

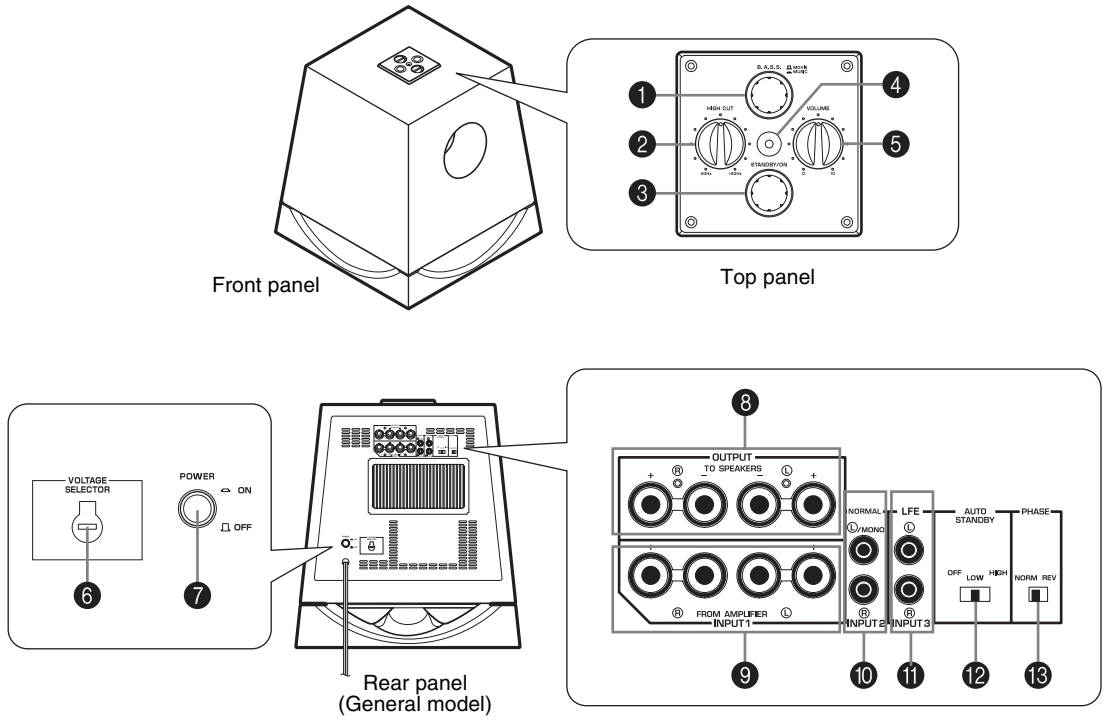
Note

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 developed between two parallel walls and cancel the bass sounds.

In such a case, place the subwoofer at an oblique angle to the wall. It also may be necessary to break up the parallel surfaces by placing bookshelves, etc. along the walls.

English

CONTROLS AND THEIR FUNCTIONS



❶ **B.A.S.S.** (Bass Action Selector System) button
When this button is pressed in to the MUSIC position, the bass sound in audio software is well reproduced. By pressing the button again so that it pops out at the MOVIE position, the bass sound in video software is well reproduced.

MOVIE MUSIC

❷ **HIGH CUT** control
Adjusts the high frequency cut off point.
Frequencies higher than the frequency selected by this control are all cut off (and no output).
* One graduation of this control represents 10 Hz.

❸ **STANDBY/ON** button
Press this button to turn on the power when the POWER switch is set in the ON position. (The power indicator lights up in green.)
Press again to set the subwoofer in the standby mode. (The power indicator goes off.)

Standby mode
The subwoofer is still using a small amount of power in this mode.

❹ **Power indicator**
Lights up in green while the subwoofer is on.
Lights up in red while the subwoofer is set in the standby mode by the operation of the automatic power-switching function.
Goes off when the subwoofer is set in the standby mode.

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

❻ **VOLTAGE SELECTOR** switch
(Asia and General models only)
If the preset setting of the switch is incorrect, set the switch to the proper voltage (110/120/220/230-240V) 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.

❼ **POWER** switch
Set this switch to the ON position to use the subwoofer. In this state, you can turn on the subwoofer or turn the subwoofer into the standby mode by pressing the **STANDBY/ON** button. Set this switch to the OFF position to completely cut off the subwoofer's power supply from the AC outlet.

❽ **OUTPUT (TO SPEAKERS)** terminals
Can be used for connecting to the main speakers. Signals from the **INPUT1** terminals are sent to these terminals.
(Refer to **"CONNECTIONS"** for details.)

❾ **INPUT1 (FROM AMPLIFIER)** terminals
Used to connect the subwoofer with the speaker terminals of the amplifier.
(Refer to **"CONNECTIONS"** for details.)

❿ **INPUT2** terminals
Used to input line level signals from the amplifier.
(Refer to **"CONNECTIONS"** for details.)

⓫ **INPUT3 (LFE)** terminals
The **HIGH CUT** control ❷ has no effect on the signals inputted to these terminals. (See Page 7 for details)

⓬ **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 described on page 11. If you do not need this function, leave this switch in the OFF position.
* Make sure to change the setting of this switch only when the subwoofer is set in the standby mode by pressing the **STANDBY/ON** button.

⓭ **PHASE** switch
This switch is to be set to the REV (reverse) position. However, depending on your speaker system or listening condition, there may be a case when better sound quality is obtained by setting this switch to the NORM (normal) position. Select the best position by ear.

English

CONNECTIONS

Choose one of the following two connecting methods most suitable for your audio system.

■Choose 1 (pages 6-7) if your amplifier has line output (pin jack) terminal(s)

■Choose 2 (pages 8-9) if your amplifier has no line output (pin jack) terminal(s)

Caution: Unplug the subwoofer and other audio/video components before making connections.

Notes

- **All connections must be correct, that is to say L (left) to L, R (right) to R, "+" to "+" and "–" to "–". Also, refer to the owner's manual of your component to be connected to the subwoofer.**
- **After all connections are completed, plug in the subwoofer and other audio/video components.**

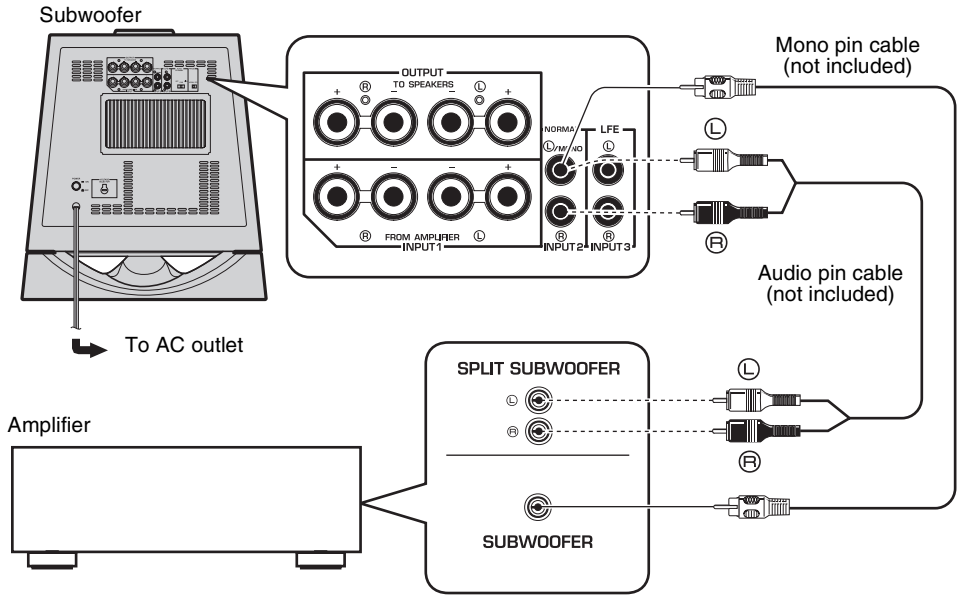
1 Connecting to line output (pin jack) terminals of the amplifier

- To connect to an amplifier (or AV receiver), connect the SUBWOOFER (or LOW PASS, etc.) terminal on the rear of the amplifier (or AV receiver) to the Ⓛ/MONO INPUT2 terminal of the subwoofer.
- When connecting the subwoofer to the SPLIT SUBWOOFER terminals on the rear of the amplifier, be sure to connect the Ⓛ/MONO INPUT2 terminal to the "L" side and the Ⓡ INPUT2 terminal to the "R" side of the SPLIT SUBWOOFER terminals.

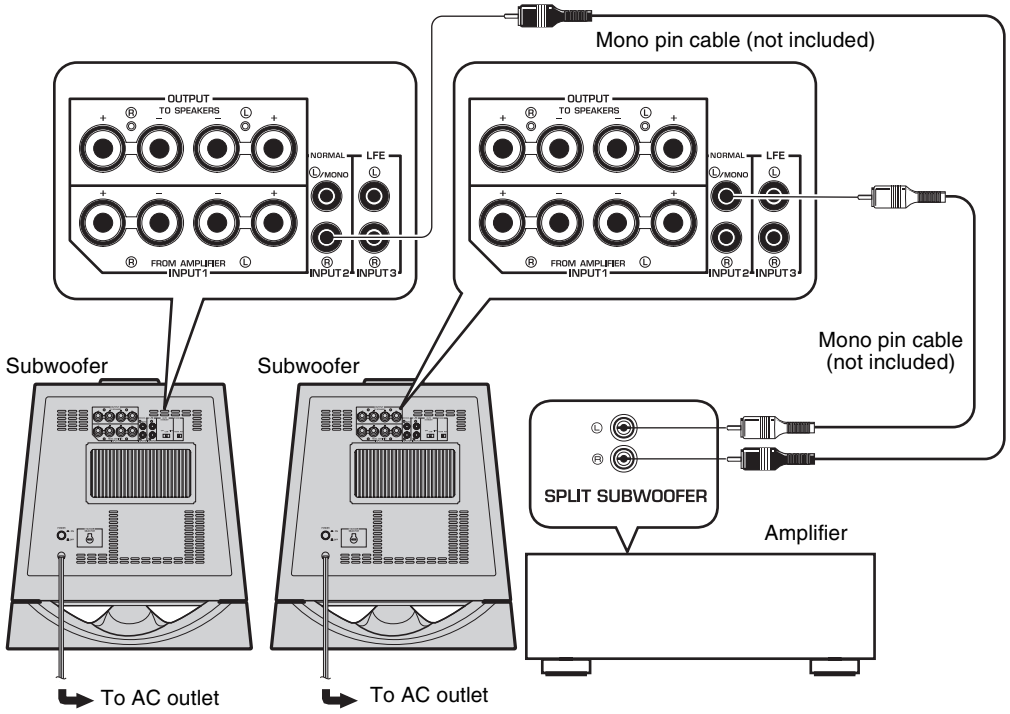
Notes

- **Some amplifiers have line output terminals labeled PRE OUT. When you connect the subwoofer to the PRE OUT terminals of the amplifier, make sure that the amplifier has at least two sets of PRE OUT terminals. If the amplifier has only one set of PRE OUT terminals, do not connect the subwoofer to the PRE OUT terminals. Instead, connect the subwoofer to the speaker output terminals of the amplifier. (Refer to pages 8-9.)**
- **When connecting to a monaural line output terminal of the amplifier, connect the Ⓛ/MONO INPUT2 terminal.**
- **When connecting to line output terminals of the amplifier, other speakers should not be connected to the OUTPUT terminals on the rear panel of the subwoofer. If connected, they will not produce sound.**

■Using one subwoofer

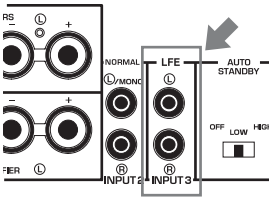


■Using two subwoofers



■Connecting to the LFE (INPUT3) terminal(s)

If your amplifier can cut off high frequencies from the signals for sending to the subwoofer, connect the amplifier to the subwoofer's LFE (INPUT3) terminal(s).This will bring you higher sound quality because the signal routing in the subwoofer is shortened by passing the built-in HIGH CUT circuit.



2 Connecting to speaker output terminals of the amplifier

Select this method if your amplifier has no line output (pin jack) terminal(s).

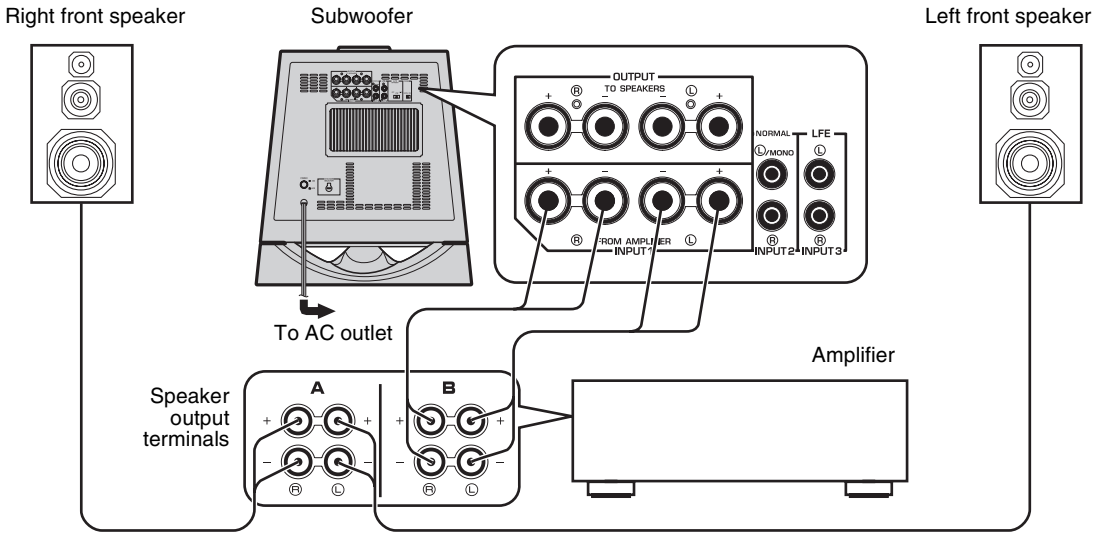
If your amplifier has two sets of front speaker output terminals and both terminals can output sound signals simultaneously.

- Connect one set of front speaker output terminals of the amplifier to the INPUT1 terminals of the subwoofer, and connect the other set of front speaker output terminals of the amplifier to the front speakers.
- Set the amplifier so that both sets of front speaker output terminals output sound signals simultaneously.

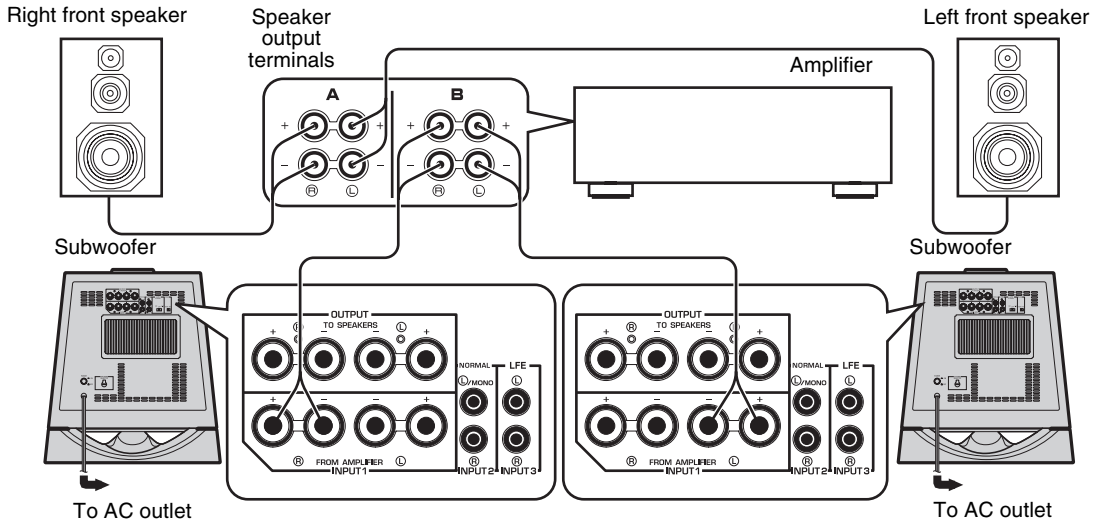
Note

If your amplifier has only one set of front speaker output terminals, see page 9.

■Using one subwoofer (with speaker cables)



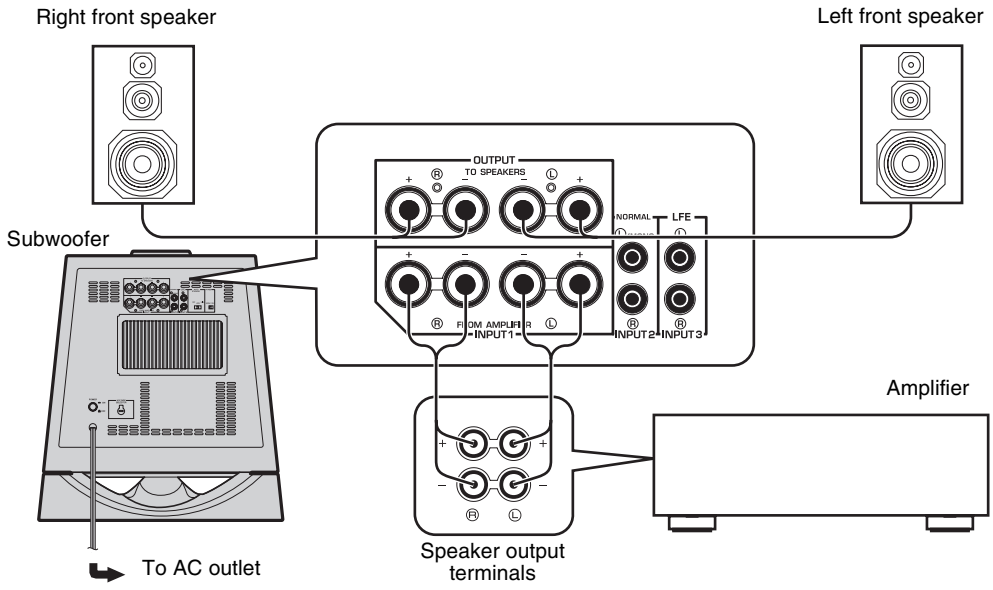
■Using two subwoofers (with speaker cables)



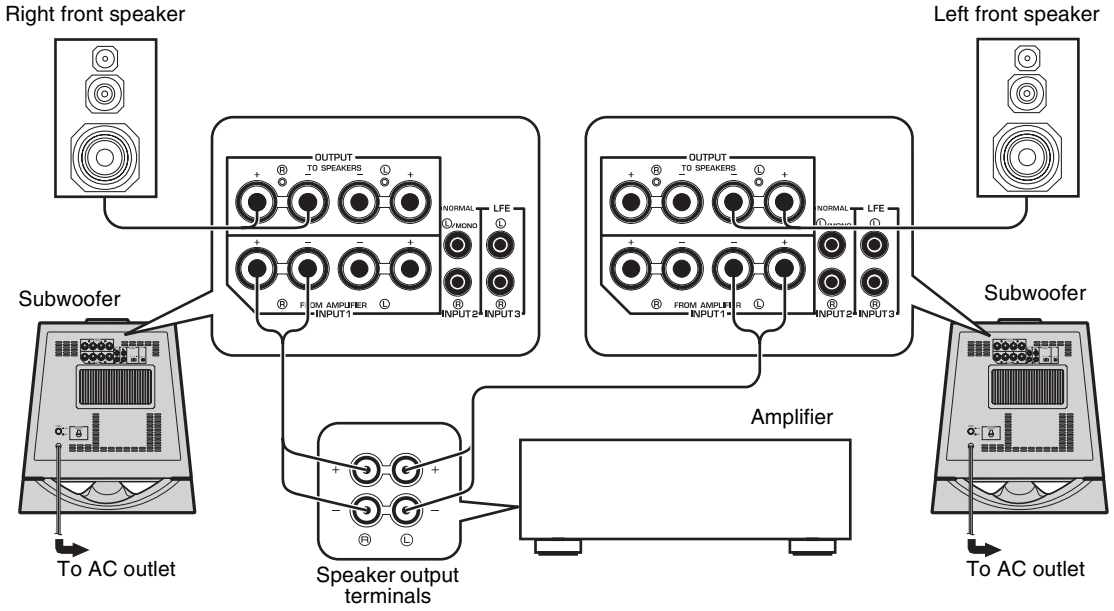
If your amplifier has only one set of front speaker output terminals.

Connect the speaker output terminals of the amplifier to the INPUT1 terminals of the subwoofer, and connect the OUTPUT terminals of the subwoofer to the front speakers.

■Using one subwoofer (with speaker cables)



■Using two subwoofers (with speaker cables)



Connecting to the INPUT1/OUTPUT terminals of the subwoofer

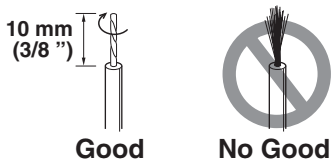
For connection, keep the speaker cables as short as possible. Do not bundle or roll the excess cabling. If the connections are faulty, no sound will be heard from the subwoofer or the speakers, or both. Make sure that the + and – polarity markings of the speaker cables are observed and connected correctly. If these cables are reversed, the sound will be unnatural and lack bass.

Caution

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

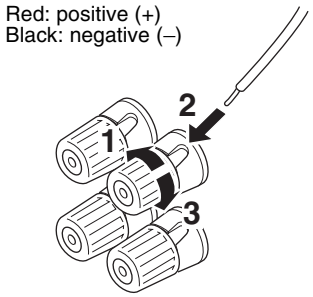
■Before connecting

Remove 10 mm (3/8”) of insulation from the ends of the speaker cables.



■How to connect

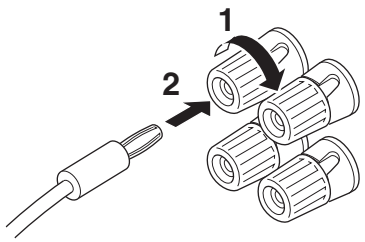
1. Loosen the terminal’s knob, as shown in the figure.
2. Insert the bare wire.
3. Tighten the knob.
4. Test the firmness of the connection by pulling lightly on the cable at the terminal.



U.S.A., Canada and Australia models only

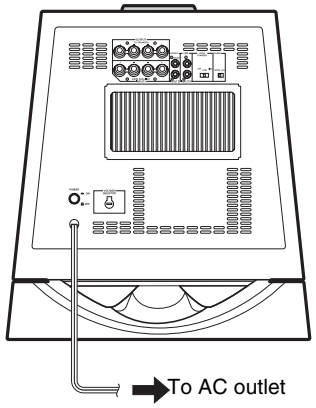
Banana Plug connections are also possible.

1. Tighten the terminal knob.
2. Simply insert the banana plug into the terminal



Plug in the subwoofer to the AC outlet

After all connections are completed, plug the subwoofer and other audio/video components into AC outlets.



AUTOMATIC POWER-SWITCHING FUNCTION

This function automatically switches the unit between standby and power-on mode.

The subwoofer automatically places itself in standby mode if it does not receive an input signal for 7 or 8 minutes. (The power indicator lights red.)

When the subwoofer detects a bass signal input of below 200 Hz, it automatically places itself in power-on mode. (The power indicator lights green.)

Notes

- **This function is available only when the POWER switch and STANDBY/ON button are set to ON.**
- **Noise received from other appliances may extend the time period before the subwoofer places itself in standby mode to more than 8 minutes.**

Changing the AUTO STANDBY setting

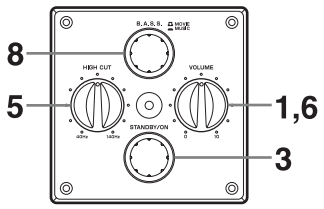
1 Set the subwoofer to standby.

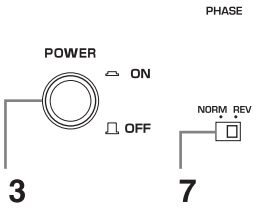
2 Change the AUTO STANDBY setting.

- LOW: Select this position to activate this function.
- HIGH: If this function does not operate with **AUTO STANDBY** switch set to LOW, select this position so that the subwoofer detects input signals with a lower level and switches the power on automatically.
- OFF: Select this position to deactivate this function, for example, when the subwoofer switches the power on unexpectedly by sensing noises from other appliances.

ADJUSTING THE SUBWOOFER BEFORE USE

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





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

2 Turn on the power of all the other components.

3 Make sure that the **POWER** switch is set to the ON position, then press the **STANDBY/ON** button to turn on the subwoofer.
* The Power indicator 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 Adjust the **HIGH CUT** control to the position where the desired response can be obtained.
Normally, set the control to a level a little higher than the front speaker's rated minimum reproducible frequency*.
* The front speaker's rated minimum reproducible frequency can be looked up in the speakers' catalog or owner's manual.

6 Increase the volume gradually to adjust the volume balance between the subwoofer and the front speakers.
Normally, set the control to a level where you can obtain a little more bass effect than when the subwoofer is not used. If the desired response cannot be obtained, adjust the **HIGH CUT** control and the **VOLUME** control again.

7 Set the **PHASE** switch to the position which gives you the better bass sound.
Set the switch to the REV (reverse) position. If the desired response cannot be obtained, set the switch to the NORM (normal) position.

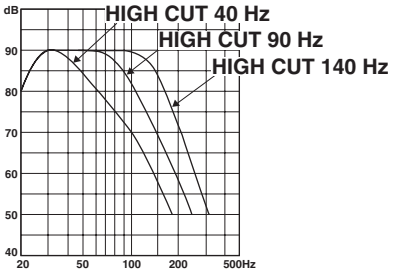
8 Select "MOVIE" or "MUSIC" according to the played source.
MOVIE:
When a movie type source is played, the low-frequency effects are enhanced to allow listeners to enjoy more powerful sound. (The sound will be richer and deeper.)
MUSIC:
When an ordinary music source is played, the excessive low-frequency components are cut off to make the sound clearer. (The sound will be lighter to reproduce the melody line more clearly.)

Notes

- **Once the volume balance between the subwoofer and the front speakers is adjusted, you can adjust the volume of your entire sound system by using the amplifier's volume control.**
  However, if you change the front speakers to others, you must make this adjustment again.
- **For adjusting the VOLUME control, the HIGH CUT control and the PHASE switch, refer to "Frequency characteristics" on page 13.**

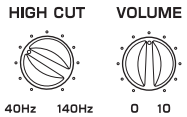
Frequency characteristics

This subwoofer's frequency characteristics

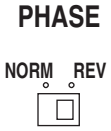


The figures below show the optimum adjustment of each control and the frequency characteristics when this subwoofer is combined with a typical front speaker system.

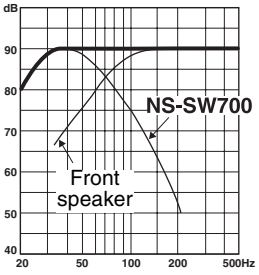
■EX.1 When combined with 10 cm (4") or 13 cm (5") acoustic suspension, 2-way system front speakers



(70Hz)

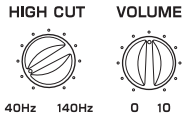


(REV)

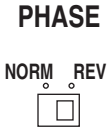


Frequency response graph*

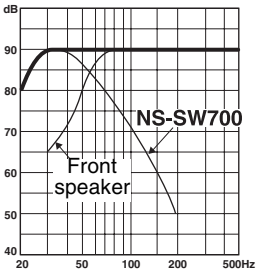
■EX.2 When combined with 20 cm (8") or 25 cm (10") acoustic suspension, 2-way system front speakers



(50Hz)



(REV)



Frequency response graph*

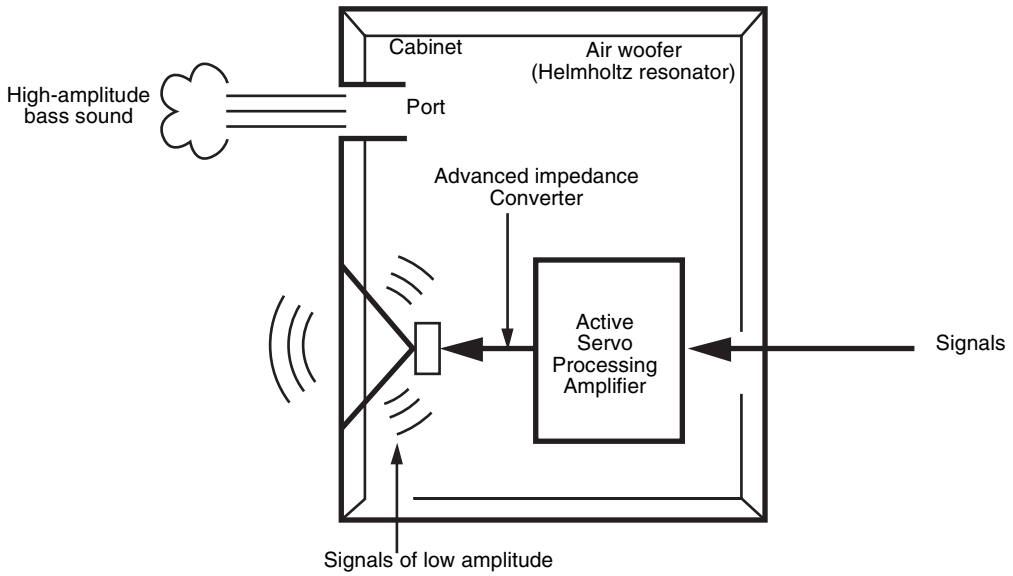
*This diagram does not depict actual frequency response characteristics.

ADVANCED YAMAHA ACTIVE SERVO TECHNOLOGY II

In 1988, Yamaha brought to the marketplace speaker systems utilizing YST (Yamaha Active Servo Technology) to give powerful, high quality bass reproduction. This technique uses a direct connection between the amplifier and speaker, allowing accurate signal transmission and precise speaker control.

As this technology uses speaker units controlled by the negative impedance drive of the amplifier and resonance generated between the speaker cabinet volume and port, it creates more resonant energy (the "air woofer" concept) than the standard bass reflex method. This allows for bass reproduction from much smaller cabinets than was previously possible.

Yamaha's newly developed Advanced YST II adds many refinements to Yamaha Active Servo Technology, allowing better control of the forces driving the amplifier and speaker. From the amplifier's point of view, the speaker impedance changes depending on the sound frequency. Yamaha developed a new circuit design combining negative-impedance and constant-current drives, which provides a more stable performance and clear bass reproduction, without any murkiness.



TROUBLESHOOTING

Refer to the chart below if 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 an authorized YAMAHA dealer or service center.

Problem	Cause	What to Do
Power is not supplied even though the STANDBY/ON button is set to the ON position.	The power plug is not securely connected.	Connect it securely.
	The POWER switch is set to the OFF position.	Set the POWER switch to the ON position.
No sound.	The volume is set to minimum.	Raise the volume up.
	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 "–".
	The PHASE switch is not set correctly.	Set the PHASE switch to the other position.
	A source sound with little bass frequency content is being played.	Play a source sound with bass frequencies. Set the HIGH CUT control to a higher position.
	It is influenced by standing waves.	Reposition the subwoofer or break up parallel surfaces 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 STANDBY/ON button is set to the STANDBY position.	Set the STANDBY/ON button 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.	Noise generated from external appliances etc., is activating the subwoofer.	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" or "LOW" 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.	Noise generated from external appliances etc., is activating the subwoofer.	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

Type..... Advanced Yamaha Active Servo Technology

Driver.....25 cm (10") cone woofer
Magnetic shielding type

Amplifier Output (100 Hz, 5 ohms, 10% THD)
.....300 W

Frequency Response..... 20 Hz - 160 Hz

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

Power Consumption.....90 W

Standby Power Consumption .....0.5 W

Dimensions (W × H × D)
..... 406mm × 445 mm × 406 mm
(16" × 17-1/2" × 16")

Weight ..... 21 kg (46 lbs. 5 oz.)

Please note that all specifications are subject to change without notice.

Limited Guarantee for European Economic Area (EEA) and Switzerland

Thank you for having chosen a Yamaha product. In the unlikely event that your Yamaha product needs guarantee service, please contact the dealer from whom it was purchased. If you experience any difficulty, please contact Yamaha representative office in your country. You can find full details on our website (**http://www.yamaha-hifi.com/** or **http://www.yamaha-uk.com/** for U.K. resident).

The product is guaranteed to be free from defects in workmanship or materials for a period of two years from the date of the original purchase. Yamaha undertakes, subject to the conditions listed below, to have the faulty product or any part(s) repaired, or replaced at Yamaha's discretion, without any charge for parts or labour. Yamaha reserves the right to replace a product with that of a similar kind and/or value and condition, where a model has been discontinued or is considered uneconomic to repair.

Conditions

1. The original invoice or sales receipt (showing date of purchase, product code and dealer's name) MUST accompany the defective product, along with a statement detailing the fault. In the absence of this clear proof of purchase, Yamaha reserves the right to refuse to provide free of charge service and the product may be returned at the customer's expense.
2. The product MUST have been purchased from an AUTHORISED Yamaha dealer within the European Economic Area (EEA) or Switzerland.
3. The product must not have been the subject of any modifications or alterations, unless authorised in writing by Yamaha.
4. The following are excluded from this guarantee:
   a. Periodic maintenance and repair or replacement of parts due to normal wear and tear.
   b. Damage resulting from:
      (1) Repairs performed by the customer himself or by an unauthorised third party.
      (2) Inadequate packaging or mishandling, when the product is in transit from the customer. Please note that it is the customer's responsibility to ensure the product is adequately packaged when returning the product for repair.
      (3) Misuse, including but not limited to (a) failure to use the product for its normal purpose or in accordance with Yamaha's instructions on the proper use, maintenance and storage, and (b) installation or use of the product in a manner inconsistent with the technical or safety standards in force in the country where it is used.
      (4) Accidents, lightning, water, fire, improper ventilation, battery leakage or any cause beyond Yamaha's control.
      (5) Defects of the system into which this product is incorporated and/or incompatibility with third party products.
      (6) Use of a product imported into the EEA and/or Switzerland, not by Yamaha, where that product does not conform to the technical or safety standards of the country of use and/or to the standard specification of a product sold by Yamaha in the EEA and/or Switzerland.
      (7) Non AV (Audio Visual) related products.
      (Products subject to "Yamaha AV Guarantee Statement" are defined in our website at **http://www.yamaha-hifi.com/** or **http://www.yamaha-uk.com/** for U.K. resident.)
5. Where the guarantee differs between the country of purchase and the country of use of the product, the guarantee of the country of use shall apply.
6. Yamaha may not be held responsible for any losses or damages, whether direct, consequential or otherwise, save for the repair or replacement of the product.
7. Please backup any custom settings or data, as Yamaha may not be held responsible for any alteration or loss to such settings or data.
8. This guarantee does not affect the consumer's statutory rights under applicable national laws in force or the consumer's rights against the dealer arising from their sales/purchase contract.

CARACTÉRISTIQUES TECHNIQUES

Type..... Technologie Advanced Yamaha Active Servo

Pilote.....Enceinte de graves à cône de 25 cm
Type à blindage magnétique

Sortie de l'amplificateur (100 Hz, 5 ohms, 10% THD)
.....300 W

Réponse en fréquence..... 20 Hz - 160 Hz

Alimentation

Modèles pour les États-Unis et le Canada
.....120 V CA, 60 Hz
Modèles pour le Royaume-Uni et l'Europe
.....230 V CA, 50 Hz
Modèles pour l'Australie .....240 V CA, 50 Hz
Modèles pour la Chine.....220 V CA, 50 Hz
Modèles pour la Corée.....220 V CA, 60 Hz
Modèles pour l'Asie et modèles standard
.....110/120/220/230-240 V CA, 50/60 Hz

Consommation électrique.....90 W

Consommation électrique en mode de veille.....0,5 W

Dimensions (L× H × P)
..... 406 mm × 445 mm × 406 mm

Poids ..... 21 kg

Ces caractéristiques techniques sont sujettes à modification sans préavis.

Garantie Limitée pour l'Espace Économique Européenne et la Suisse

Merci d'avoir porté votre choix sur un produit Yamaha. Dans l'hypothèse où vous devriez recourir au service de notre garantie après-vente, veuillez contacter votre revendeur Yamaha. Si vous rencontrez la moindre difficulté, n'hésitez pas à contacter directement Yamaha dans votre pays de résidence. Vous pouvez trouver toutes informations complémentaires sur notre site Web (**http://www.yamaha-hifi.com/** ou **http://www.yamaha-uk.com/** pour les résidents au Royaume-Uni).

Yamaha garantit votre produit contre tout défaut de fabrication, pièces et main d'oeuvre, pour une durée de 2 ans à compter de la première date de vente au détail. Yamaha s'engage, dans les conditions décrites ci-après, à procéder à la réparation du produit défectueux (ou d'un quelconque de ses composants) ou à son remplacement à l'appréciation de Yamaha en prenant à sa charge les coûts relatifs aux pièces détachées et à la main d'oeuvre. Yamaha se réserve le droit de remplacer le produit par un modèle semblable, de par sa valeur et ses caractéristiques, dès lors que la commercialisation dudit produit a cessé ou bien lorsque sa réparation s'avère économiquement injustifiée.

Conditions

1. La facture d'achat originelle ou un justificatif d'achat correspondant (indiquant la date d'achat, la référence du produit et le nom du revendeur) DOIT accompagner le produit défectueux, ainsi qu'une description précise du dysfonctionnement constaté. En l'absence de cette preuve d'achat, Yamaha se réserve le droit de refuser le service de la garantie et le produit peut être restitué aux frais du consommateur.
2. Le produit DOIT avoir été acheté par un distributeur agréé Yamaha au sein de l'Espace Economique Européen ou en Suisse.
3. Le produit doit n'avoir fait l'objet d'aucune modification ou altération, sauf accord écrit de Yamaha.
4. Les cas suivants font obstacle à l'application de la garantie:
   a. Entretien périodique et réparation ou remplacement de pièces ayant subi une usure ou défaillance normale.
   b. Dommages résulótant de:
      (1) Réparation effectuée par le consommateur lui-même ou par un tiers non autorisé.
      (2) Emballage ou manutention inadéquats lors du transport du produit pour réparation. Veuillez noter qu'il est de la responsabilité de l'expéditeur de s'assurer que le produit est correctement emballé.
      (3) Utilisation non-conforme du produit, correspondant aux cas non limitatifs (a) d'utilisation non-conforme à l'objet normal du produit ou nonconforme aux instructions d'utilisation, de maintenance ou d'installation publiées par Yamaha, (b) ou d'utilisation du produit incompatible avec les normes techniques ou de sécurité en vigueur au sein du pays d'utilisation.
      (4) Accidents, foudre, dégât des eaux, incendie, ventilation incorrecte, fuite de pile ou toute autre cause échappant au contrôle de Yamaha.
      (5) Les défauts de la configuration dans laquelle ce produit est incorporé et/ou l'incompatibilité avec des produits tiers.
      (6) Produit importé au sein de l'EEE , et/ou en Suisse, par une autre entité que Yamaha, dès lors que ce produit n'est pas conforme aux normes techniques ou de sécurité du pays d'utilisation et/ou aux normes des produits commercialisés par Yamaha au sein de l'EEE et/ou en Suisse.
      (7) Produits non audiovisuels.
      (Les produits soumis à une « Déclaration de Garantie AV de Yamaha » sont indiqués sur notre site Web à l'adresse **http://www.yamaha-hifi.com/** ou **http://www.yamaha-uk.com/** pour les résidents au Royaume-Uni.)
5. Lorsque la garantie diffère entre le pays d'achat et le pays d'utilisation du produit, la garantie du pays d'utilisation est applicable.
6. Yamaha ne saurait être tenu pour responsable de quelconques pertes ou dommages, directs, consécutifs ou autres, sa responsabilité au titre de la garantie étant strictement limitée à la réparation ou au remplacement du produit.
7. Nous vous invitons à sauvegarder toutes les données ou réglages personnalisés de votre produit, Yamaha ne pouvant être tenu responsable de leur modification ou perte.
8. La présente garantie laisse intégralement subsister les droits que le consommateur peut détenir au titre de la garantie légale en vigueur ou au titre du contrat de vente conclu avec son revendeur.

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