

# NS-225F

## SPEAKER SYSTEM

Thank you for choosing a Yamaha speaker system.

### Caution

#### ■ Read the following before using these speakers:

- 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 dripping or splashing.
- To prevent the enclosure from warping or discoloring, do not place the speakers where they will be exposed to direct sunlight or excessive humidity.
- Do not place the following objects on top of the speakers:
  1. Glass, china, etc.  
If glass etc. falls by vibrations and breaks, it may cause personal injury.
  2. A burning candle etc.  
If the candle falls by vibrations, it may cause fire and personal injury.
  3. 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.
- Do not place the speakers where foreign objects such as water drips might fall. It might cause a fire, damage to this unit, and/or personal injury.
- 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.
- 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 of your amplifier immediately. Make sure the input power does not exceed the specified maximum input power, otherwise the speakers will be damaged.
- 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 reasons.

**Note:**

This speaker is magnetically shielded, but placing them too close to a TV may impair the TV picture. If this happens, move the speaker away from the TV.

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## Precautions When Positioning the Speakers

The speaker is constructed with the majority of the weight located in its upper portion, and is thus susceptible to falling over if proper care is not taken to insure its stability. If the speaker falls over, it may damage the speaker or be the cause of injury (or even death) to persons and/or damage to personal property.



### ■ For safe and proper use of the speaker:

- Position the speaker in a location that is solid, level, smooth, and low (with respect to the floor).
- Do not push or apply pressure to the side of the speaker when moving, or lean objects against the side of the speaker.
- Do not sit on or set objects on top of the speaker.

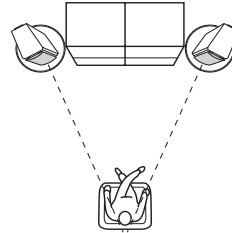
Vibrations or jolts associated with earthquakes and other phenomena or activities may cause the speaker to fall over. For safety reasons, using commercially available products that increase stability in the speaker is recommended (metal fittings or chains, etc.).

## Placing the Speakers

Place the speakers on a sturdy, vibration-free surface.

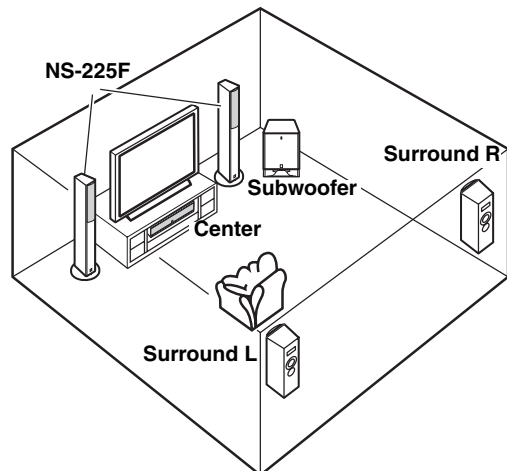
### ■ Using as Normal Stereo Speakers

To get the best stereo performance, angle the speakers inward so as to create a triangle, with the listener at the apex.



### ■ Using as Front Speakers in a Surround Sound System

Position the speakers both side of your TV. The positioning of these speakers is important because they provide a solid anchor for the sound image. They should be positioned facing the listener at about ear level, and equidistant from the TV.

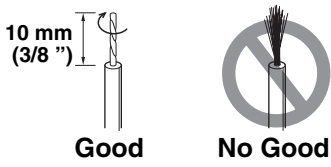


# Connecting Your Speakers

**Always turn off your amplifier or receiver before making any connections.**

## ■ Preparing Your Speaker Cables

Carefully remove 10 mm (3/8 ") of insulation from both ends of your speaker cables and twist the bare wires tightly, as shown.



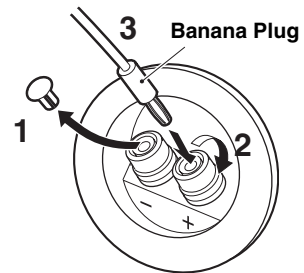
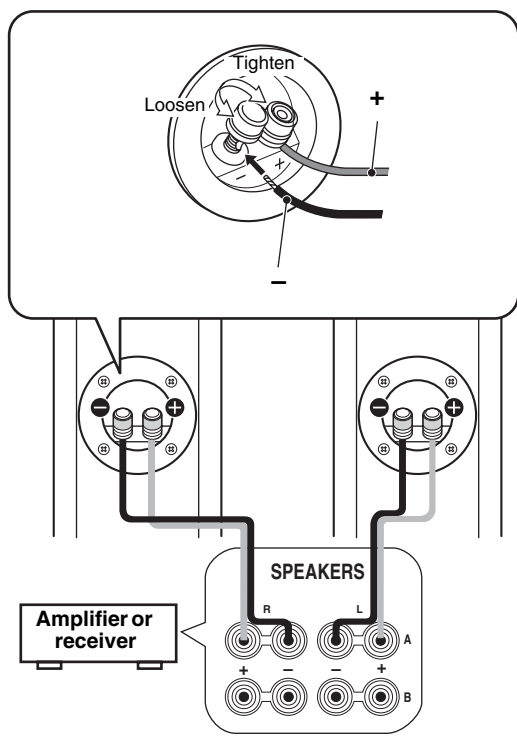
**Notes:**

- Make sure that the bare wires are not touching each other as this could damage the speaker and amplifier.
- Connect one speaker to the left terminals of your amplifier, and another speaker to the right terminals, making sure not to reverse the polarity (+, -). If one speaker is connected with reversed polarity, the sound will be unnatural and lack bass.

## ■ Using a Banana Plug

1. Remove the speaker terminal cover by gently pulling it toward you.
2. Tighten the terminal knob.
3. Simply insert the banana plug into the terminal.

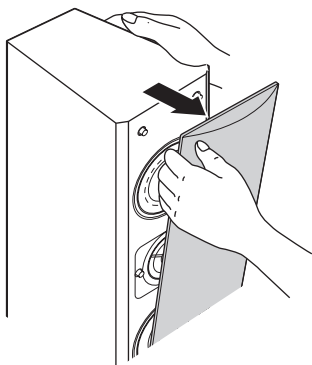
## ■ Hookup



## Removing the front cover

The front cover is attached to protect the speaker unit, but you can remove it if necessary.

The front cover is fixed by magnets. Hold the speaker with one hand, and pull the front cover gently with the other to remove it.



### Notes:

- When removing the cover, be careful that you don't touch the drive units, and don't exert excessive force with any tools.
- There are magnets on the reverse side of the front cover. Do not place the front cover close to objects that might be affected by magnets, such as TVs, clocks, magnetic cards, diskettes etc. after removing it.

## Specifications

Type.....2-way bass-reflex speaker system  
magnetic shielding type

Drivers..... 3 cm (1") dome tweeter  
8 cm (3.1") cone woofer x2

Impedance ..... 6  $\Omega$

Frequency response..... 60 Hz–50 kHz

Nominal Input power .....40 W

Maximum input power.....120 W

Sensitivity..... 86 dB/2.83 V/m

Crossover frequency.....3 kHz

Dimensions (with the stand)

(W  $\times$  H  $\times$  D)

.....236 (9.3")  $\times$  1050 (41.3")  $\times$  236 (9.3") mm

Weight.....7.7 kg (16.98 lbs)

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



This product mainly uses lead-free solder.  
Cet appareil utilise principalement de la soudure sans plomb.  
Dieses Produkt verwendet hauptsächlich bleifreies Lot.  
Este producto utiliza principalmente soldadura sin plomo.

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Printed in Indonesia  WD66630-1