

Thank you for selecting this YAMAHA NS-515F speaker system.

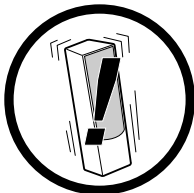
PRECAUTIONS

Read this before using the speaker.

- To assure the finest performance, please read this manual carefully. Keep it in a safe place for future reference.
- Install the speaker 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 the speaker to rain or water.
- To prevent the enclosure from warping or discoloring, do not place the speaker where it will be exposed to direct sunlight or excessive humidity.
- Do not place the following objects on the speaker:
Glass, china, etc.
If glass etc. falls by vibrations and breaks, it may cause personal injury.
A burning candle etc.
If the candle falls by vibrations, it may cause fire and personal injury.
A vessel with water in it
If the vessel falls by vibrations and water spills, it may cause damage to the speaker, and/or you may get an electric shock.
- Do not place the speaker where foreign objects such as water drips might fall. It might cause a fire, damage to the speaker, and/or personal injury.
- Do not place the speaker where it is liable to be knocked over or struck by falling objects. Stable placement will also ensure better sound performance.
- Placing the speaker on the same shelf or rack as the turntable can result in feedback.
- Never put a hand or a foreign object into the port located on the rear of the speaker as this might cause personal injury and/or damage to the speaker.
- When moving the speaker, do not hold the port as it might cause personal injury and/or damage to the speaker.
- 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 speaker may be damaged.
- When using an amplifier with a rated output power higher than the nominal input power of the speaker, care should be taken never to exceed the speaker's maximum input.
- Do not attempt to clean the speaker with chemical solvents as this might damage the finish. Use a clean, dry cloth.
- Do not attempt to modify or fix the speaker. Contact qualified YAMAHA service personnel when any service is needed. The cabinet should never be opened for any reasons.
- **Secure placement or installation is the owner's responsibility.**
YAMAHA shall not be liable for any accident caused by improper placement or installation of the speaker.

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.

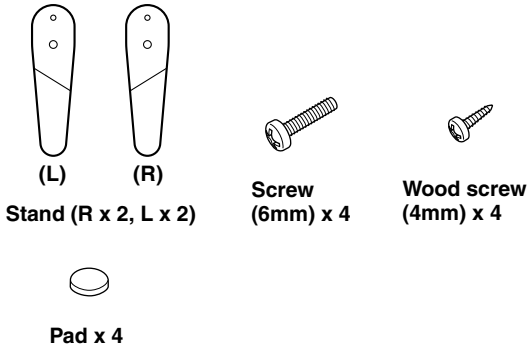
Vibrations or jolts associated with earthquakes and other phenomena or activities may cause the speaker to fall over. For safety reasons, using commercially available products that increase stability in the speaker is recommended (metal fittings or chains, etc.).

Use the stands included with the speaker to increase stability:

Be sure to use the stands regardless of where the speaker is positioned. Attaching the stands included with the speaker reinforces the base of the speaker not to fall over. Please be cautioned that even though the stands are connected, this does not guarantee that the speaker will not fall over.

ATTACHING THE STANDS

When placing the speakers, be sure to use the stands to increase stability.

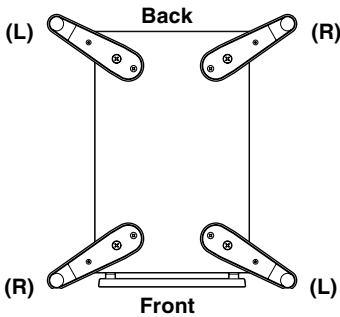


Pad x 4

Note

The provided stands are in two types. Two stands are for the right side and others are for the left side. Attach each stand to the proper position on the bottom of the speaker by following the figure below.

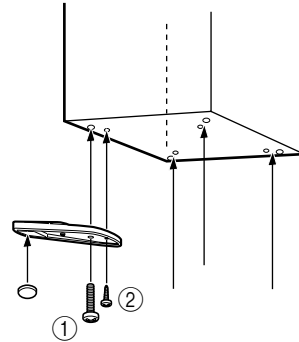
View from the bottom of the speaker



Use the 8 specified holes located on the base of the speaker.

Procedure:

- ① Put the 6mm screw through the large hole on the stand, and screw it into the speaker at one of the outside holes on the base of the speaker. At this time, screw it untightly so that the stand can still be moved.
- ② Put the 4mm wood screw through the other hole on the stand, and screw it into the other hole on the base of the speaker.
- ③ Tighten both of the screws firmly.
- ④ Attach a pad to the bottom of the end portion of the stand.
- ⑤ Attach the other stands to the other corners of the base of the speaker in the same way and confirm that all 4 stands have been firmly attached.

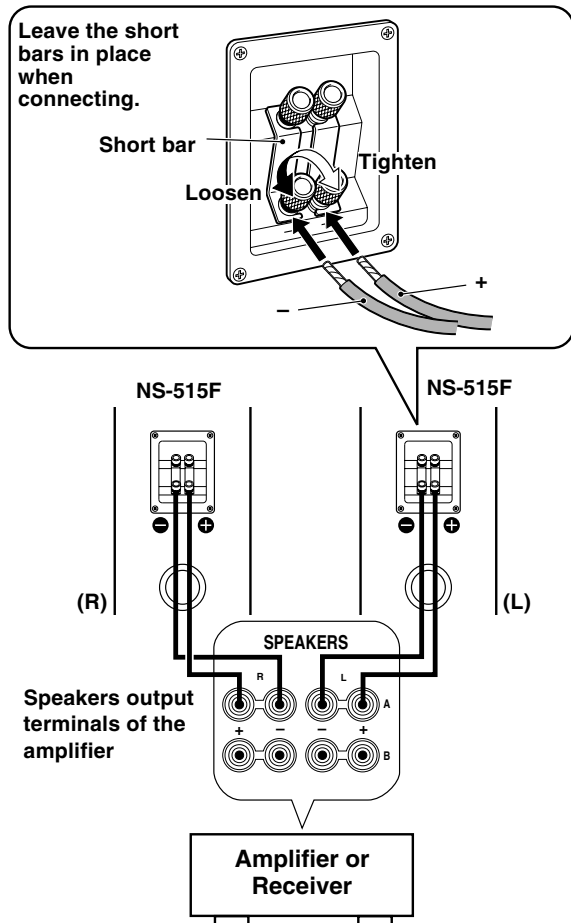


Note

Be careful not to apply force to the side of the speaker, otherwise the speaker may fall causing damage to the speaker or personal injury.

This speaker system is capable of standard connections and bi-wired connections. Before making connections, make sure that the amplifier is switched off.

<Standard connections>



■ CONNECTIONS

- Connect the screw-type input terminals at the rear of the speakers to the speaker output terminals of the amplifier (or receiver) with the speaker cable.
- Connect the (+) terminals on the amplifier (or receiver) and the speakers using one side of the cable. Connect the (-) terminals on both components using the other side of the cable.
- Connect one speaker to the left (marked L) terminals of your amplifier, and another speaker to the right (marked R) terminals, making sure not to reverse the polarity (+, -). If one speaker is connected with reversed polarity, the sound will be unnatural and lack bass.

How to connect:

- ① Loosen the knob.
- ② Remove the insulation coating at the extremity of each speaker cable by twisting the coating off.

Good No Good



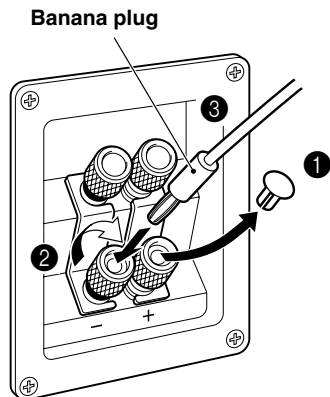
- ③ Insert the bare wire.
- ④ Tighten the knob and secure the cables.
Test the firmness of the connection by pulling lightly on the cables at the terminal.

Note

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

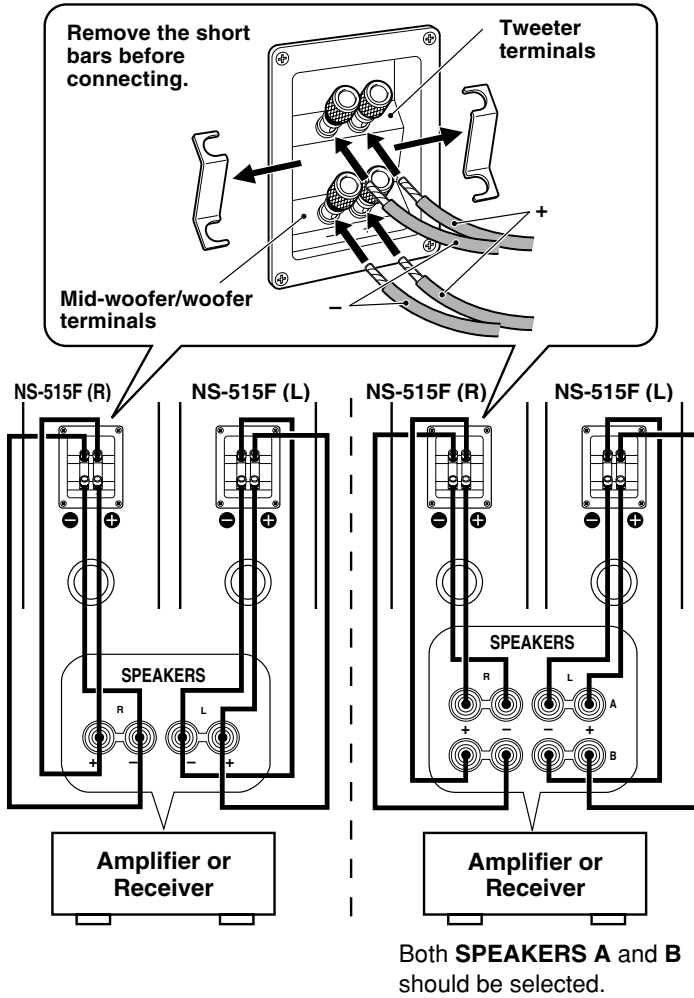
When using a banana plug

<General model only>



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

<Bi-wired connections>



Bi-Wired Connections

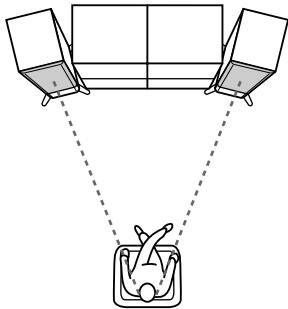
This speaker system is capable of bi-wired connections. To connect the speaker to the output terminals of the amplifier (or receiver), two pairs of cables for each of mid-woofer/woofer and tweeter used instead of standard connections. This type of connection decreases the modulation distortion caused by electric resistance of the cables and driving current of the speakers. Consequently, purer sound quality can be expected.

To utilize bi-wired connections, remove the short bars from the terminals first, and then connect the mid-woofer/woofer and tweeter to the amplifier separately using two pairs of cables.

PLACING THE SPEAKERS

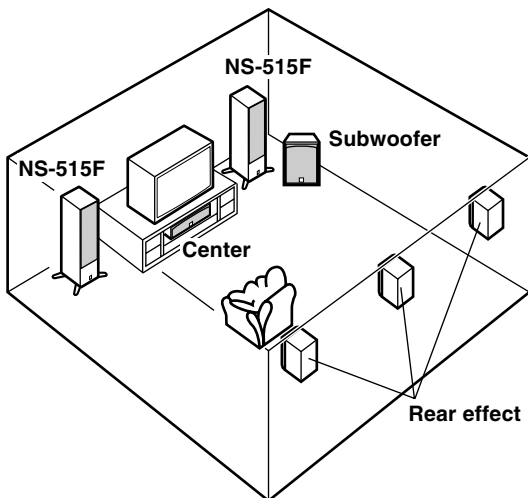
■ Using as 2ch stereo speakers

Better stereo images will be obtained when the speakers are slightly angled in towards the listeners.



■ Using as main speakers in a multi channel system

Position the speakers on both sides of the TV. The positioning of speakers is important, because it controls the whole sound quality of a multi channel system. Set up the speakers on the basis of your listening position by following the owner's manual supplied with your amplifier.

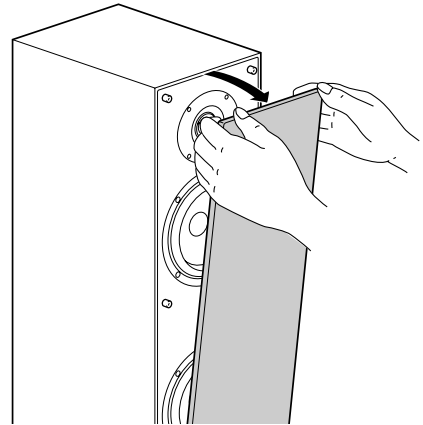


Note

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

REMOVING THE FRONT COVER

The front cover is fastened to the enclosure at six points and can be removed if desired. To remove the cover, hold on to both sides and slowly pull straight away from the speaker. To reattach, line up the six holes on the inner surface of the cover with the six corresponding pegs on the speaker and push gently.



Note

When the cover is removed, take care not to touch the speaker units with your hands or to exert excessive force with tools.

SPECIFICATIONS

Type	3-way bass reflex speaker system Magnetic shielding type
Driver	16 cm (6.5") cone woofer 16 cm (6.5") cone mid-woofer 3 cm (1") dome tweeter
Impedance	6 Ω
Frequency Response	40 Hz to 50 kHz
Nominal Input Power	100 W
Maximum Input Power	300 W
Sensitivity	90 dB/2.83 V/m
Crossover Frequency	500 Hz, 3 kHz
Dimensions (WxHxD)	200 x 1000 x 328 mm (7-7/8" x 39-3/8" x 12-15/16")
Weight	21 kg (46 lbs. 3 oz.) (Including the stands)
Accessories	Stand x 4 (L x 2, R x 2) Screw (6mm) x 4 Wood screw (4mm) x 4 Pad x 4

- Specifications subject to change without notice due to product improvements.
- Care should be taken not to exceed the input power values noted above.



YAMAHA ELECTRONICS CORPORATION, USA 6660 ORANGETHORPE AVE., BUENA PARK, CALIF. 90620, U.S.A.
YAMAHA CANADA MUSIC LTD. 135 MILNER AVE., SCARBOROUGH, ONTARIO M1S 3R1, CANADA
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YAMAHA SCANDINAVIA A.B. J A WETTERGRENS GATA 1, BOX 30053, 400 43 VÄSTRA FRÖLUNDA, SWEDEN
YAMAHA MUSIC AUSTRALIA PTY, LTD. 17-33 MARKET ST., SOUTH MELBOURNE, 3205 VIC., AUSTRALIA

YAMAHA CORPORATION

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