



Owner's Manual  
使用说明书

SPEAKER SYSTEM

A10/A12/A15/A12M

SUBWOOFER

A15W

Thank you for choosing this YAMAHA speaker system. In order to take maximum advantage of the speaker's features and ensure maximum performance and longevity, please read this manual carefully before using the speaker system. Keep the manual in a safe place for future reference.

## PRECAUTIONS

*PLEASE READ CAREFULLY BEFORE PROCEEDING*

\* Please keep this manual in a safe place for future reference.

### **WARNING**

Always follow the basic precautions listed below to avoid the possibility of serious injury or even death from electrical shock, short-circuiting, damages, fire or other hazards. These precautions include, but are not limited to, the following:

#### **Do not open**

- Do not open the device or attempt to disassemble the internal parts or modify them in any way. The device contains no user-serviceable parts. If it should appear to be malfunctioning, discontinue use immediately and have it inspected by qualified Yamaha service personnel.

#### **Water warning**

- Do not expose the device to rain, use it near water or in damp or wet conditions, or place containers on it containing liquids which might spill into any openings.

### **CAUTION**

Always follow the basic precautions listed below to avoid the possibility of physical injury to you or others, or damage to the device or other property. These precautions include, but are not limited to, the following:

#### **Location**

- If you use a stand, make sure to observe the following precautions in order to avoid toppling the device or causing damage to the internal components.
  - Check the stand's specifications and make sure that it is sturdy enough to support the weight of the speaker.
  - Mount only one speaker on each speaker stand.
  - Use the supplied screws if included.
  - Tighten fastening screws securely.
  - Use the speaker stands with their legs fully opened.
  - Use the stand at a height of less than 140cm (55").
  - Add weight such as sand bags around the stand legs to prevent them from falling over.
  - Remove the speakers from the stands before moving the stands or adjusting their height.
  - Limit the number of people around the placed stand.

We recommend using the TS-80 and TS-90 speaker stands manufactured by Ultimate Support Systems, Inc. (sold separately) to support the speakers.

- If you use the metal socket on the subwoofer for mounting of a satellite speaker, use a pole no longer than 90cm (35.4") with an outer diameter of 35mm (1-3/8"). Use of any other size pole may cause the device to fall, and result in injury or damage to the internal components.

- When transporting or moving the device, always use two or more people. Attempting to lift the device by yourself may damage your back, result in other injury, or cause damage to the device itself.
- Before moving the device, remove all connected cables.
- Do not use the speaker's handles for suspended installation. Doing so can result in damage or injury.
- Do not expose the device to excessive dust or vibrations, or extreme cold or heat (such as in direct sunlight, near a heater, or in a car during the day) to prevent the possibility of panel disfiguration or damage to the internal components.
- Do not place the device in an unstable position where it might accidentally fall over.

## Connections

- Before connecting the device to other devices, turn off the power for all devices. Before turning the power on or off for all devices, set all volume levels to minimum.
- Use only speaker cables for connecting speakers to the speaker jacks. Use of other types of cables may result in fire.
- Be sure to observe the amplifier's rated load impedance (see page 4), particularly when connecting speakers in parallel. Connecting an impedance load outside the amplifier's rated range can damage the amplifier.

## Handling caution

- When choosing a power amplifier to use with your speakers, make sure that its power output matches the speakers' power capacity (refer to the Specifications on page 4). Even if the amplifier's power output is lower than the speakers' PGM (program) power capacity, the speakers may be damaged when clipping of a high input signal occurs. The following may cause damage to speakers:
  - Feedback caused when using a microphone.
  - Continuous high sound pressure level produced by electronic instruments.
  - Continuous high-power output of distorted signals.
  - Popping noises caused by turning on equipment, or by connecting or disconnecting system components while the amplifier is turned on.
- When turning on the AC power in your audio system, always turn on the power amplifier LAST, to avoid speaker damage. When turning the power off, the power amplifier should be turned off FIRST for the same reason.
- Do not operate this device at high volume levels or at a level that is uncomfortable, since it is capable of producing sound levels that could cause permanent hearing loss. If you experience any discomfort or ringing in the ears, or suspect an hearing loss, you should consult an audiologist.

## Special Notice

### Protective Circuit (poly switch)

All full-range loudspeakers are fitted with a self-resetting poly switch that protects the high-frequency driver from damage caused by excessive power. If a loudspeaker cabinet loses high-frequency output, immediately remove power from the unit and wait for two to three minutes. This should be long enough to allow the poly switch to reset. Reapply power and check the performance of the high-frequency driver before continuing, with the power reduced to a level that does not cause the poly switch to interrupt the signal. (On the subwoofers, the poly switch protects the woofer and a similar routine should be followed if the output is lost.)

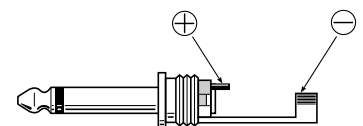
- Use only Neutrik NL4FC plugs for connecting Speakon connectors.
- \* Illustrations in this manual are for explanatory purposes only, and may not match the actual appearance of the product during operation.
- \* Company names and product names used in this Owner's Manual are trademarks or registered trademarks of their respective owners.

Yamaha cannot be held responsible for damage caused by improper use or modifications to the device.

# Before Making Connections

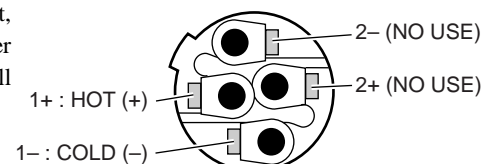
## ■ Phone Plug Wiring

Phone plugs for connection to the phone jack inputs should be wired as shown on the right. Be sure to use proper speaker cable — NOT shielded instrument or line cable — for all speaker connections.



## ■ Neutrik NL4FC Plug Wiring

If you will be using the Neutrik connectors for speaker input, wire the plugs as shown to the right. Be sure to use proper speaker cable — NOT shielded instrument or line cable — for all speaker connections.



Neutrik NL4FC connector

## ■ Subwoofer Parallel-connection

The subwoofer A15W features four input/parallel connectors—two 1/4" phone jacks and two Neutrik NL4MP connectors. Use either a phone jack or a Neutrik connector to receive input from your sound system/power amplifier. One of the spare connectors can be used to parallel-connect an additional main speaker (keeping in mind the impedance considerations mentioned below).

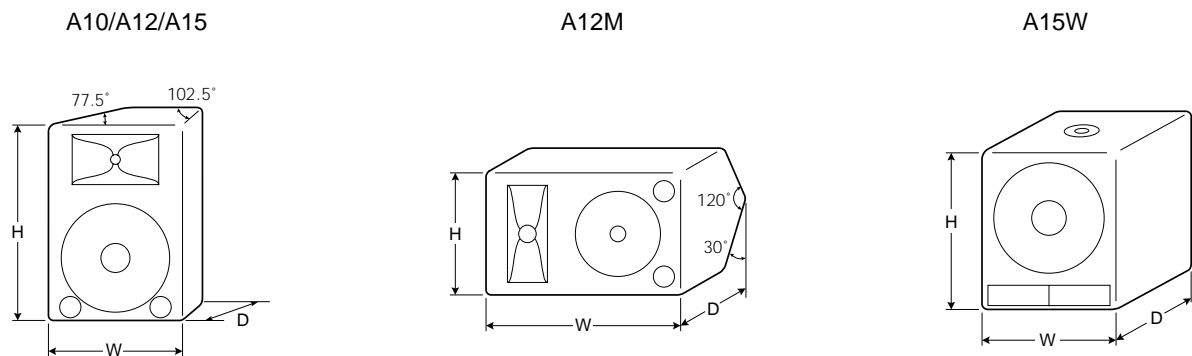
## ■ Impedance Considerations

When connecting speakers in parallel be sure to check the rated load impedance of the power amplifier. Most power amplifiers are capable of safely driving speakers with minimum impedance of 8 ohms or 4 ohms. A pair of parallel-connected 8-ohm speakers have a total impedance of 4 ohms. Two 8-ohm speakers can safely be paralleled on one output. 4-ohm speakers, however, should not be parallel-connected with other speakers. These models can be connected in parallel, however, if you are using a power amplifier that can safely drive load impedances of 2 ohms or lower. Check your speaker impedance in the table below.

# Specifications

Model		A10	A12	A15	A12M	A15W
Type		2 way Bass reflex				Bass reflex
Speaker Unit	LF	10" cone	12" cone	15" cone	12" cone	15" cone
	HF	1" VC, Horn-TW				—
Frequency Response		65 Hz-20 kHz		60 Hz-20 kHz	65 Hz-20 kHz	50 Hz-200 Hz with the internal low pass filtering
Power Capacity	NOISE*	125 W	150 W	200 W	150 W	250 W
	PGM	250 W	300 W	400 W	300 W	500 W
	MAX	500 W	600 W	800 W	600 W	1000 W
Nominal Impedance		8 Ω				
Sensitivity		96 dB SPL (1 W, 1 m)	97 dB SPL (1 W, 1 m)	98 dB SPL (1 W, 1 m)	97 dB SPL (1 W, 1 m)	97 dB SPL (1 W, 1 m)
Input Connectors		1/4" phone jack × 1, Neutrik SPEAKON NL4MP × 1				1/4" phone jack × 2, Neutrik SPEAKON NL4MP × 2
Socket Mount Diameter		35 mm (1 - 3/8")				
Dimensions (W×H×D)		385 mm × 542 mm × 307 mm	405 mm × 582 mm × 323 mm	470 mm × 672 mm × 375 mm	582 mm × 405 mm × 323 mm	485 mm × 622 mm × 485 mm
Weight		13.0 kg	15.5 kg	21.5 kg	15.5 kg	28.0 kg

\*: EIA RS-426



Unit: mm

Specifications and descriptions in this owner's manual are for information purposes only. Yamaha Corp. reserves the right to change or modify products or specifications at any time without prior notice. Since specifications, equipment or options may not be the same in every locale, please check with your Yamaha dealer.

For details of products, please contact your nearest Yamaha representative or the authorized distributor listed below.

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