



## **PORTABLE PA SYSTEM** STAGEPAS 400i **Owner's Manual**

### Introduction

Thank you and congratulations on your purchase of the Yamaha STAGEPAS 400i Portable PA System. The STAGEPAS 400i is an all-in-one PA system, consisting of two dedicated speakers and a powered mixer. In order to get the most out of your new STAGEPAS 400i and its sophisticated functions, we suggest you read through this manual thoroughly. Also keep it in a safe place for future reference.

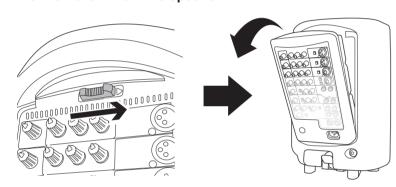
#### Main Features

- 400 watts power amplifier for versatility in a wide variety of performance applications.
- 8-inch two-way bass-reflex type speakers for high-quality, powerful sound.
- 8-channel mixer features four mono mic/line and two stereo line input channels to support a wide range
- Yamaha's high-quality SPX reverb, providing optimum processing for instruments or vocals.
- · Feedback Suppressor, which automatically cuts and prevents undesirable feedback noise.
- USB connector for convenient digital connection with an iPod/iPhone, and allows charging of the device.

## **QuickStartGuide**

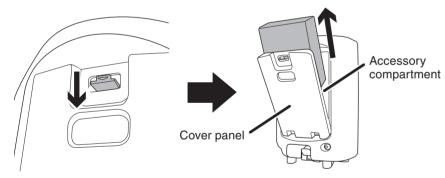
### Connecting the speakers and the mixer

Slide the mixer's lock in the direction of the arrow (shown below), and then remove it from the speaker.



Open the cover panel attached to the other speaker, and then remove the box from inside the accessory compartment.

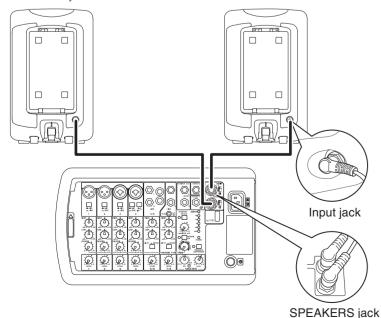
Two speaker cables and one power cord are included in the box.



NOTE After the box is removed, loose items, such as the included power cord, speaker cables, owner's manual (this booklet), and an optional microphone can conveniently be stored in the accessory

**3** Connect the speakers and the mixer.

Connect the mixer's SPEAKERS jack to the speakers' input jack using the included speaker cables. As shown in the illustration below, make sure to insert the speaker cables all the way inside until secure.



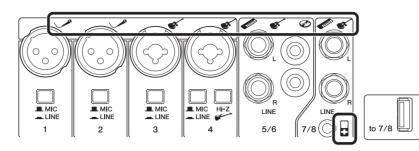
### Caution

Use only the included speaker cables. Use of other cables may result in heat generation, or short

### Connecting microphones, instruments, and audio devices to the mixer

4 Connect desired devices, such as a microphone, or an instrument to the input jack of the mixer.

Refer to the illustration on the mixer shown below or the connection example of the cover panel of the accessory compartment.



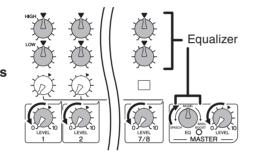
### Getting sound out of the system

5 Connect the included power cord.

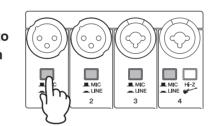
First, connect it to the mixer's AC IN connector, then



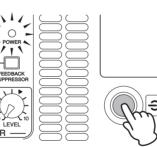
Turn the mixer's LEVEL controls (white knobs) and MASTER LEVEL control (red knob) to the minimum (zero). Also, set the equalizer controls (green knobs) to the center "▼" or "MUSIC" position.



Set the MIC/LINE switch to the MIC (1) position for microphone connection, and to the LINE (\_) position for connection of an instrument or audio device.



8 Turn on the power of the connected sound source (if applicable), then the mixer. The POWER LED lights.



Set the MASTER LEVEL control to the "▼" position



10 While playing your instrument or singing into the microphone, use the LEVEL control to adjust the volume of the corresponding channel



11 Use the MASTER LEVEL control to adjust the overall volume.

If you hear the sound and the volume seems appropriate, setup is complete. If not, please refer to the check list in the "Troubleshooting" section on the back of this booklet.

NOTE To avoid any loud, unexpected noise from the speaker, first turn off the power to the mixer, then the connected sound source (such as an instrument or audio device).

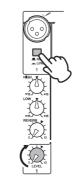
#### Making optimum volume settings

#### When the volume is too loud

Turn the LEVEL control to the minimum (zero). Set the MIC/LINE switch to the LINE (\_) position, then slowly raise the LEVEL control until the desired volume is reached.

### When the volume is too soft

Turn the LEVEL control to the minimum (zero). Set the MIC/LINE switch to the MIC (**L**) position, then slowly raise the LEVEL control until the desired volume is reached



## **Applying Reverb**

The STAGEPAS 400i features a built-in reverb processor that is in the same league as our famed SPX effect processor series. This reverb lets you simulate the acoustics of different performance environments, such as concert halls and small clubs, and add warm, natural ambience to your vocals or instrument performance.

1 Press down the REVERB switch to turn it on.

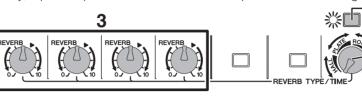
The LED lights when REVERB is on.

2 Position the REVERB TYPE/TIME control to the desired reverb type and time (length).

Turning the control toward the right lengthens the time of the selected reverb type

3 Use the REVERB control to adjust the reverb amount of the corresponding

If necessary, repeat steps 2 and 3 to determine the optimum reverb setting



#### **6** MONITOR OUT jacks

These are for connection to a powered speaker for monitoring purposes, and output a mix of the signals from channels 1 to 7/8. You can adjust the output level using the MONITOR OUT control (11). If only the L (MONO) jack is used, the signals from the L and R channels are mixed and output.

#### **6** SUBWOOFER OUT jack

This is for connection to a powered subwoofer, and outputs a mono signal. If this jack is in use, the low frequencies below 120Hz to the SPEAKERS L/R jacks will be cut. The output level is linked to that of the MASTER LEVEL control (22).

#### **7** REVERB FOOT SW jack

This is for connection to an unlatchedtype footswitch such as the Yamaha FC5—useful for solo performers, since you can toggle the reverb on and off as needed with your foot.

#### SPEAKERS L/R jacks

Use the included speaker cables to connect the dedicated speakers.

#### 9 USB connector

Connect your iPod/iPhone using a USB cable to play music and charge the iPod/iPhone. Use the LEVEL control of channels 7/8 to adjust the volume, since the music signals are mixed to those channels. This connector supplies 5V power to the connected USB device. This connector does not support digital playback from USB devices other than the iPod/iPhone. For playback of such devices, use appropriate stereo mini or RCA pin connectors.

#### ∠!\ Caution

When this switch is on, the LED lights indicating that phantom power is available for channels 1 and 2. Turn this switch on to

supply power to condenser microphones or a DI (direct box)

Follow the important precautions below, in order to prevent

noise and possible damage to external devices and the unit

Be sure to leave this switch off if you do not need phantom

power, or when you connect a device that does not support

• Do not connect/disconnect a cable to/from channels 1 and 2

• Turn the LEVEL control of the channels 1 and 2 to the

Use a genuine Apple Dock Connector
USB Cable for the iPod/iPhone

· Please do not use a USB hub.

**NOTE** If you connect an iPhone, incoming calls or emails may cause a notification sound to be output. In order to prevent this, we recommend setting the iPhone's Airplane mode to "on."

## **Mixer Controls and Functions**

#### Mic/Line input jacks (channels 1-4)

Connect microphones, guitars, electronic musical instruments or audio equipment. Channels 3 and 4 provide combo jacks that support both XLR and phone plugs.



MIC/LINE switches (channels 1-4) For low-level signals (including microphones), set the switch to the MIC ( ) position. For high-level signals (including electronic

instruments and audio equipment), set the switch to the LINE (\_) position.

 Hi-Z switch (channel 4) This switch is used when connecting a device directly to the mixer without a DI (direct box)—for example, instruments with passive

NOTE For the channel 5/6 input, if both phone and RCA-pin jacks are used at the same time, the phone jack will take priority. For the channel

connected to another jack will be muted. The music signals from iPod/iPhone (9) are always mixed to channels 7/8

7/8 input, if both phone and stereo mini jacks are used at the same time, the stereo mini jack will take priority. The signal from the device

pickups, such as an acoustic-electric guitar or electric bass without battery. This function is effective only for the phone jack input.

4 Line (stereo) input jacks (channels 5/6, 7/8) Connect line-level devices such as electronic instruments, acoustic-electric guitars, CD players, and portable audio players. These jacks support phone, RCA-pin, and stereo-mini





### **10** MONITOR OUT control

while this switch on

!\ Caution

**10** PHANTOM (CH1/2) switch /LED

when you operate this switch.

phantom power to channels 1 or 2.

minimum before operating this switch

Determines the signal level output from the MONITOR OUT jacks (5). The MASTER LEVEL control does not affect the MONITOR OUT signal.

#### ② Equalizer controls (HIGH, LOW)

This two-band equalizer adjusts the channel's high and low frequency bands. Setting the control to the "▼" position produces a flat response in the corresponding band. Turning the control clockwise boosts the selected band. If you start getting feedback, turn the control back slightly.

#### ® REVERB switch/LED

When this switch is on, the LED lights indicating that you can apply reverb. This switch is off when you turn on the mixer. (Unlike other switches, this switch cannot be locked.)

### REVERB TYPE/TIME control

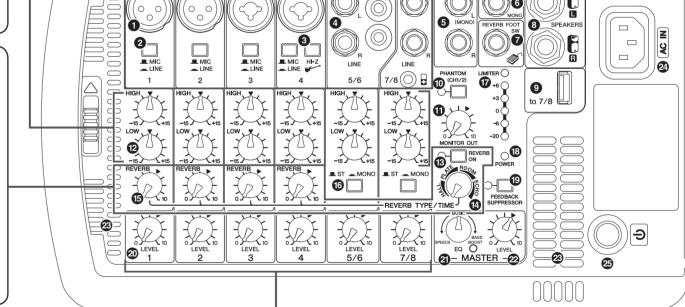
Determines the reverb type and its length. Turning the control toward the right lengthens the time of the selected reverb type. **HALL:** Simulated reverb of a large space, such as a concert

PLATE: Simulated metal plate reverb, producing a more hardedged and bright sound.

ROOM: Simulated acoustic ambience of a small room. **ECHO:** Echo effect suitable for vocals.

### **®** REVERB controls (channels 1-4)

Determines the amount of reverb for each channel when the REVERB switch (13) is on.



#### ST/MONO switches (channels 5/6, 7/8)

Setting the switch to ST (STEREO) ( $\blacksquare$ ) will assign the signals from the L and R channels to each left and right speaker and output each signal. Setting the switch to MONO (\_\_) will mix the output of different L and R sources to output the same signal to both the left and right speakers. For keyboards with mono output, guitars, or other non-stereo sound sources, when the switch is set to MONO, the stereo jacks can be conveniently used as multiple

#### **1** LEVEL meter

The LEVEL meter shows the level of output signal from the SPEAKERS L/R jacks.

#### /!\ Caution

If used at a high volume so that the LIMITER LED flashes continuously, the internal power amplifier section is being excessively overloaded and may malfunction. Reduce the output level with the MASTER LEVEL control so that the indicator flashes only briefly on the highest transient

#### 13 POWER LED

This LED lights when the power is turned on by pressing the power switch.

#### **®** FEEDBACK SUPPRESSOR switch/LED

When this switch is on, the LED lights indicating that feedback is automatically suppressed. (This utilizes a seven-band notch filter. When this switch or the power switch is off, the notch filter will be reset.)

Use these controls to adjust the volume for each channel. To reduce noise, set any LEVEL controls on

### MASTER EQ (equalizer) control

Use this control to adjust the overall sound frequency balance. The center position "MUSIC" is a basic setting and if you turn the control counterclockwise, this creates an optimum setting for speech, cutting unneeded low range frequencies. If you turn the control clockwise, it creates an optimum setting for playback of sound sources, since the low range is boosted. If you turn the control clockwise further, the LED lights indicating that the bass boost function turns on, giving you even more powerful bass tone.

#### 2 MASTER LEVEL control

Determines the volume of the signal output from the SPEAKERS L/R jacks. This allows you to adjust the overall volume without changing the relative volume balance among the various channels.

## Wents

These are the vents for the cooling fan inside the mixer. Do not block the vents when in use.

### AC IN jack

Connect the included power cord here.

#### ∅ (power) switch

For turning the power of the mixer on  $(\blacksquare)$  and off  $(\blacksquare)$ .

Rapidly turning the unit on and off in succession may cause it to malfunction. After turning the unit off, wait for about 5 seconds before turning it on again.

## **Troubleshooting**

#### Power does not turn on.

□ Did you firmly and securely connect the

#### Power shuts down suddenly.

☐ Are the vents of the mixer blocked? Since inadequate ventilation can result in overheating the mixer, the power may be turned off automatically to protect from overheating. Secure the ventilation for cooling, then turn on the power again.

#### No sound is heard.

- ☐ Did you connect the mixer's SPEAKERS jacks and the speakers' input jacks using the proper speaker cables?
- ☐ Did you firmly and securely connect the speaker cables?
- ☐ Is a speaker other than the included speaker (MODEL 400S) connected to the mixer's SPEAKERS jacks? Please connect the included speaker (MODEL 400S).
- □ Did you use the included speaker cables?

If you use a commercially-available speaker cable with a metal-housing connector, the cable will be shorted when the connector touches other metal, resulting in no sound being produced.

- ☐ Is the POWER LED flashing at intervals? There may be a short in the speaker cable or the connection may be faulty. Check that the speaker cable is not scratched and is connected properly to the mixer, then reapply the power.
- ☐ For channels 5/6, are both phone and RCA-pin jacks connected at the same time? Or, for channels 7/8, are both phone and stereo mini jacks connected at the same time?

The phone jack has priority for channels 5/6 and the stereo mini jack has priority for

☐ Is the POWER LED flashing continuously?

If the internal power amplifier section is excessively overloaded, the amplifier will be muted for protection. The mixer will automatically reset itself after a while.

#### Sound is distorted or noise is produced

☐ Are the LEVEL controls of all relevant channels and/or the MASTER LEVEL control set too high?

☐ Is the MIC/LINE switch of the corresponding channel set to MIC?

If the input level from the source is high, setting the MIC/LINE switch to MIC may result in distorted sound. Set the switch to LINE position

☐ Is the volume of the connected device too high?

I ower the volume of the external device  $\square$  Is the speaker cable or the power cord

located near the input cables? Please keep it away from the input cables.

#### Sound is not loud enough

☐ Are the LEVEL controls of all relevant channels and/or the MASTER LEVEL control set too low?

☐ Is the MIC/LINE switch of the corresponding channel set to LINE? Turn the LEVEL control to the minimum (zero). Set the switch to the MIC position

then slowly raise the LEVEL control.

☐ Is the volume of the connected device too low? Raise the volume of the external device.

 $\ \square$  Is the PHANTOM switch set to on when using a microphone that requires phantom power?

#### The high sounds and low sounds are unbalanced.

☐ Are the equalizer controls raised or lowered too much? Set the equalizer controls to the center position.

Is the speaker properly outputting the high-frequency range signals? If not, check the "Protective circuit (poly switch)" note in the Notice section.

#### iPod/iPhone is not recognized

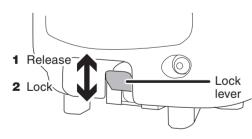
☐ Is your iPod/iPhone charged?

If your iPod/iPhone has not been charged, it may take some time to be recognized by the mixer. Make sure that your iPod/iPhone is connected to the mixer and wait until it is sufficiently charged.

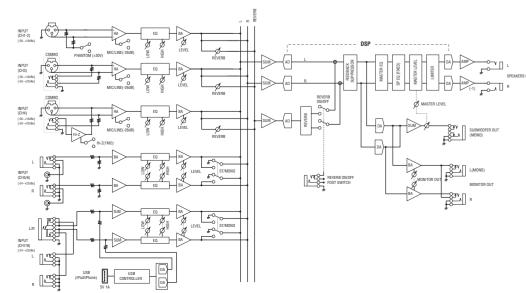
\* If any specific problem should persist, please contact your Yamaha dealer.

#### Attaching a speaker to a speaker stand

- Attach the speaker to the speaker stand with the lock lever moved up (release position).
- 2 Move the lock lever down to lock to the stand.



### **Block Diagram**



Frequency Response -3 dB, +1 dB @ 40 Hz-20 kHz, 1 W Output/4Ω (without EQ and SP EQ) (SPEAKERS L/R)

**Specifications** 

■ General Specifications

-3 dB, +1 dB @ 40 Hz-20 kHz, +4 dBu 10 kΩ Load **Total Harmonic Distortion** 

Maximum Output Power (SPEAKERS L/R)

200 W + 200 W/4 Ω @Dynamic at 1 kHz

180 W + 180 W/4 Ω @10 % THD at 1 kHz

≥ 125 W + 125 W/4 Ω @1 % THD at 1 kHz

≤0.5 % @20 Hz-20 kHz, +11 dBu 10 kΩ (MONITOR OUT) Hum & Noise (Rs= 150  $\Omega$ , MIC/LINE switch=MIC)

≤-113 dBu Equivalent input noise (CH1-4) ≦-60 dBu Residual output noise (SPEAKERS L/R)

### ≤-70 dB between input channels

**Phantom Voltage** +30 V (CH1, 2)

17.8 kg (39.2 lbs) (Speaker 7.5 kg x 2 + Mixer 2.8 kg)

#### **Package Contents**

STAGEPAS 400i (includes two MODEL 400S Speakers and a Powered Mixer). Cover Panel, Power Cord (2m). two Speaker Cables (6m), 12 Non-Skid Pads, Owner's Manual (this booklet)

#### **Power Consumption**

30 W (Idle), 70 W (1/8 Power)

### Input Characteristics

Input Terminals		MIC/LINE	Input Impedance	Source Impedance	Input Level			
					Sensitivity	Nominal	Max. before Clipping	Connector Type
CH IN 1-2	XLR	MIC	3 kΩ	150 Ω Mics	-56 dBu	-35 dBu	-10 dBu	XLR-3-31
		LINE			-30 dBu	-9 dBu	+16 dBu	
CH IN 3-4	XLR	MIC	3 kΩ	150 Ω Mics	-56 dBu	-35 dBu	-10 dBu	XLR Combo
		LINE			-30 dBu	-9 dBu	+16 dBu	
	Phone	MIC	10 kΩ (Hi-Z 1 MΩ)	150 Ω Lines (Hi-Z 10 kΩ)	-50 dBu	-29 dBu	-4 dBu	
		LINE			-24 dBu	-3 dBu	+22 dBu	
CH IN 5/6	Phone	-	10 kΩ	150 Ω Lines	-24 dBu	-3 dBu	+22 dBu	Phone*
	Pin	-	10 kΩ	150 Ω Lines	-24 dBu	-3 dBu	+22 dBu	RCA Pin
CH IN 7/8	Phone	-	10 kΩ	150 Ω Lines	-24 dBu	-3 dBu	+22 dBu	Phone*
	Mini	-	10 kΩ	150 Ω Lines	-24 dBu	-3 dBu	+22 dBu	Stereo Mini

**Power Requirement** 

HIGH:8 kHz shelving

LOW: 100 Hz shelving

2 way bass-reflex type

LF: 8" (20 cm) Cone

**Crossover Frequency** 

Frequency Range

Coverage Angle

HF: 1" (2.54 cm) Compression Driver

90° (Horizontal)/60° (Vertical)

±15 dB

Enclosure

Speaker Unit

3.2 kHz

100 V - 240 V 50 Hz/60 Hz

Input Channel Equalization

Supported iPod/iPhone models (as of August 2012)

iPod classic, iPod nano (2nd, 3rd, 4th, 5th, and 6th

generation), iPhone 4S, iPhone 4, iPhone 3GS, iPhone

For updated information, check the Yamaha Pro Audio

iPod touch (1st, 2nd, 3rd, and 4th generation),

website (http://www.yamahaproaudio.com/).

■ Dedicated Speakers (MODEL 400S)

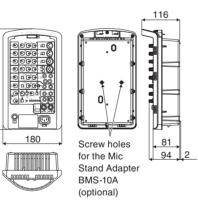
#### **Output Characteristics**

	Output Impedance	Load Impedance		C			
Output Terminals			Nominal	Max. before Clipping	Typ at THD+N 10%	Dynamic	Connector Type
SPEAKERS OUT [L,R]	<0.1 Ω	4 Ω Speakers	37.5 W	125 W	180 W	200 W	Phone*
MONITOR OUT [L,R]	600 Ω	10 kΩ Lines	+4 dBu	+20 dBu	-	-	Phone*
SUBWOOFER OUT	150 Ω	10 kΩ Lines	-3 dBu	+17 dBu	-	-	Phone*
0 dBu=0.775 Vrms, 0 dB	BV=1 Vrms	Phone*: Unbalanc	ed			-	

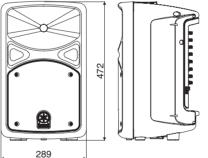
Specifications and descriptions in this owner's manual are for information purposes only. Yamaha Corp.reserves the right to change or modify products or specifications at any time without prior notice. Since specifications, equipment or options may not be the same in every locale, please check with your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

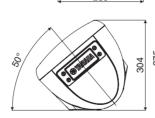
### **Dimensions**

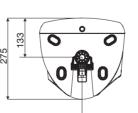
Mixer



## **Dedicated Speaker**







Unit: mm

Pole diameter 34.8 - 35.2 \* Use of the stand should refer to stand manufacturer's instructions.

## **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:

### Power supply/Power cord

 Do not place the power cord near heat sources such as heaters or radiators, and do not excessively bend or otherwise damage the cord, place heavy objects on it, or place it in a position where anyone could walk on, trip over, or roll anything over it.

 Only use the voltage specified as correct for the mixer. The required voltage is printed on the name plate of the mixer. Use only the supplied power cord.

If you intend to use the device in an area other than in the one you purchased, the included power cord may not be compatible. Please check with your Yamaha dealer

 Check the electric plug periodically and remove any dirt or dust which may have accumulated on it. Be sure to connect to an appropriate outlet with a protective grounding connection. Improper grounding can result in electrical shock.

### Do not open

 This device contains no user-serviceable parts. Do not open the device or attempt to disassemble the internal parts or modify them in any way If it should annear 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 on it any containers (such as vases, bottles or glasses) containing liquids which might spill into any openings. If any liquid such as water seeps into the device, turn off the power immediately and unplug the power cord from the AC outlet. Then have the device inspected by qualified Yamaha service personnel.
- Never insert or remove an electric plug with wet hands.

#### Fire warning

 Do not put burning items, such as candles, on the unit. A burning item may fall over and cause a fire.

- If you notice any abnormality • When one of the following problems occur, immediately turn off the power switch and disconnect the electric plug from the outlet. Then
- have the device inspected by Yamaha service person The power cord or plug becomes frayed or damaged It emits unusual smells or smoke.
- Some object has been dropped into the instrument
- If this mixer should be dropped or damaged, immediately turn off the **Maximum Output Level** power switch, disconnect the electric plug from the outlet, and have the 125 dB SPL (Measured peak IEC noise@1m)

## device inspected by qualified Yamaha service personnel.

**!** 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:

#### Power supply/Power cord

- When removing the electric plug from the device or an outlet, always hold the plug itself and not the cord. Pulling by the cord can damage it Remove the electric plug from the outlet when the device is not to be
- used for extended periods of time, or during electrical storms

### Location

- Do not place the device in an unstable position. Unless the device is securely affixed, do not install it in a location where it might fall, even if the surface is level
- Do not block the vents. This mixer has ventilation holes at the top and sides to prevent the internal temperature from becoming too high. In particular, do not place the mixer on its side or upside down. Inadequate ventilation can result in overheating, possibly causing damage to the mixer, or even fire

#### Notice

To avoid the possibility of malfunction or damage to the product, follow the notices below.

#### ■ Handling and Maintenance Do not expose the device to excessive dust or vibration, or extreme cold

- or heat (such as in direct sunlight, near a heater, or in a car during the day), in order to prevent the possibility of panel disfiguration, unstable operation, or damage to the internal components.
- Do not place vinyl, plastic or rubber objects on the device, since this might discolor the panel. • When cleaning the device, use a dry and soft cloth. Do not use paint
- thinners, solvents, cleaning fluids, or chemical-impregnated wiping Condensation can occur in the device due to rapid, drastic changes in
- ambient temperature—when the device is moved from one location to another, or air conditioning is turned on or off, for example. Using the device while condensation is present can cause damage. If there is reason to believe that condensation might have occurred, leave the device for several hours without turning on the power until the condensation has completely dried out
- Depending on the condition of the connected devices, doing so may cause feedback and may damage the speakers. When turning on the AC power in your audio system, always turn on
- the mixer LAST, to avoid speaker damage due to the noise. When turning the power off, the mixer should be turned off FIRST for the same

#### • Protective circuit (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. before continuing, with the power reduced to a level that does not cause the poly switch to interrupt the signal.

 Do not connect any other mixer than the STAGEPAS400i mixer to the dedicated speakers (MODEL 400S), doing so may cause emitting smoke and may damage the speakers.

## 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,

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 our local municipality, your waste disposal service or the point of sale where you

[For business users in the European Union] or supplier for further information

[Information on Disposal in other Countries outside the European Union his symbol is only valid in the European Union. If you wish to discard these ite please contact your local authorities or dealer and ask for the correct method of disposal

## Connecting the Plug and Cord

GREEN-AND-YELLOW : EARTH

: LIVE As the colours of the wires in the mains lead of this apparatus may not rrespond with the coloured markings identifying the terminals in your plug

ymbol 🕀 or colored GREEN or GREEN-and-YELLOW. The wire which is coloured BLUE must be connected to the terminal which is

marked with the letter N or coloured BLACK.

## **IMPORTANT SAFETY INSTRUCTIONS** 1. Read these instruction

- The above warning is located on the bottom of the mixe
- 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.
- 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

8. Do not install near any heat sources such as radiators, heat registers, stoves, or

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.

The lightning flash with arrowhead symbol within an equilateral triangle is

intended to alert the user to the presence of uninsulated "dangerous voltage

within the product's enclosure that may be of sufficient magnitude to constitute a

The exclamation point within an equilateral triangle is intended to alert the user

to the presence of important operating and maintenance (servicing) instructions

apparatus combination to avoid injury from tip-over.

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,

. IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT! This product, when installed as indicated in the instructions c

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

3. NOTE: This product has been tested and found to comply with the ements 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

one of the following measures: Relocate either this product or the device that is being affected by the

circuits or install AC line filter/s. In the case of radio or TV interference, relocate/reorient the antenna. If the

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

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#### ■ About functions/data bundled with the device

 iPod<sup>TM</sup>, iPhone<sup>TM</sup> of Apple Inc., registered in the U.S. and other countries.

"Made for iPod" and "Made for iPhone" mean that an electronic accessory has been designed to connect specifically to iPod or iPhone respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards Please note that the use of this accessory with iPod or iPhone may

• The illustrations as shown in this manual are for instructional purposes

only, and may appear somewhat different from those on your device.

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11. Only use attachments/accessories specified by the manufacture

specified by the manufacturer, or sold with the apparatus When a cart is used, use caution when moving the cart/

the apparatus has been exposed to rain or moisture, does not operate normally or has been dropped.

WARNING

manual, meets FCC requirements. Modifications not expressly approved by Yamaha may void your authority, granted by the FCC, to use the product.

instructions could void your FCC authorization to use this product in the USA.

the instructions found in the users manual, may cause interference harmful to

(class b korea)

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PA42

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fitted with the mixer, and surrounding walls or other devices: at least 30cm at the sides, 30cm behind and 30cm above, Inadequate ventilation can result in overheating, possibly causing damage to the device(s), or even fire,

Do not use the device in a confined, poorly-ventilated location. Make

sure that there is adequate space between the mixer, or the speaker

- If you lay the speaker flat on its side or like a stage monitor, make sure to remove the mixer first.
- Do not hold the bottom of the speaker when transporting or moving it. In doing so, you may pinch your hands under the speaker, and result in
- . Do not place the device in a location where it may come into contact with corrosive gases or salt air. Doing so may result in malfunction.

when the power switch is turned off, electricity is still flowing to the

product at the minimum level. When you are not using the product for a

· Before moving the device, remove all connected cables When setting up the mixer, make sure that the AC outlet you are using is easily accessible. If some trouble or malfunction occurs, immediately turn off the power switch and disconnect the plug from the outlet. Even

## long time, make sure to unplug the power cord from the wall AC outlet.

- 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 For the SPEAKERS jacks of the mixer, use only the included MODEL 400S speakers and speaker cables. Use of other types of speakers and cables may result in damage, or even fire

### Maintenance

· Remove the power plug from the AC outlet when cleaning the device Handling caution

### • Do not insert your fingers or hands in any gaps or openings on the

- and unplug the power cord from the AC outlet. Then have the device inspected by qualified Yamaha service personnel
- uncomfortable volume level, since this can cause permanent hearing loss. If you experience any hearing loss or ringing in the ears, consult a

Interference from cell phones

#### when the speaker is handling program material with heavy bass

· Always turn the power off when the device is not in use. ■ Connectors

iPhone, iPod, iPod classic, iPod nano, and iPod touch are trademarks

affect wireless performance About this manual

The company names and product names in this manual are the

## IMPORTANT NOTICE FOR THE UNITED

WARNING: THIS APPARATUS MUST BE EARTHED IMPORTANT. The wire is mains lead are coloured in accordance with the following code

erminal in the plug which is marked by the letter E or by the safety earth

The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

ne operation of other electronic devices. Compliance with FCC regulations

does not quarantee, that interference will not occur in all installations. If this This applies only to products distributed by YAMAHA CORPORATION OF AMERICA

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Yamaha Corporation Sales & Marketing Division

COUNTRIES AND TRUST

There is a sudden loss of sound during use of the device.

vents or panel of the mixer and the ports of the speaker

• Do not rest your weight on the device or place heavy objects on it, and avoid use excessive force on the buttons, switches or connectors.

Do not use the speakers for a long period of time at a high or

• Do not operate the device if the sound is distorting. Prolonged use in this condition could cause overheating and result in fire.

. Do not pull on any attached cable, such that of a microphone. Doing so

may cause the speaker to topple, and result in damage or in injury.

Yamaha cannot be held responsible for damage caused by improper use or modifications to the device, or data that is lost or destroyed

#### Using a cell phone near the speaker system can induce noise. If this occurs, move the cell phone further away from the speaker system. • Air blowing out of the bass reflex ports is normal, and often occurs

#### • XLR-type connectors are wired as follows (IEC60268 standard): pin 1: ground, pin 2: hot (+), and pin 3: cold (-).

## Information

**BiPod □iPhone** Avoid setting all equalizer controls and LEVEL knobs to their maximum

All full-range loudspeakers are fitted with a self-resetting poly switch trademarks or registered trademarks of their respective companies.

## Information for Users on Collection and Disposal of

BLUE NEUTRAL with your national legislation and the Directives 2002/96/EC BROWN

#### proceed as follows: The wire which is coloured GREEN-and-YELLOW must be connected to the

CAUTION

12. Use only with the cart, stand, tripod, bracket, or table

13. Unplug this apparatus during lightning storms or when unused for long period 14. Refer all servicing to qualified service personnel. Servicing is required when

outlet, consult an electrician for replacement of the obsolete outlet.

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

FCC INFORMATION (U.S.A.) 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

**Explanation of Graphical Symbols** 

risk of electric shock to persons.

in the literature accompanying the product.

Utilize power outlets that are on different branch (circuit breaker or fuse)

antenna lead-in is 300 ohm ribbon lead, change the lead-in to co-axial type 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 Corporation of America ectronic Service Division, 6600 Orangethorpe Ave, Buena Park, CA90620

n Finland: Laite on liitettävä suojamaadoituskoskettimilla varustettuur

n Norway: Apparatet må tilkoples jordet stikkontak

In Sweden: Apparaten skall anslutas till jordat uttag.

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 Avoid inserting or dropping foreign objects (paper, plastic, metal, etc.) into any gaps or openings on the vents or panel of the mixer and the ports of the speaker. If this happens, turn off the power immediately