

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.

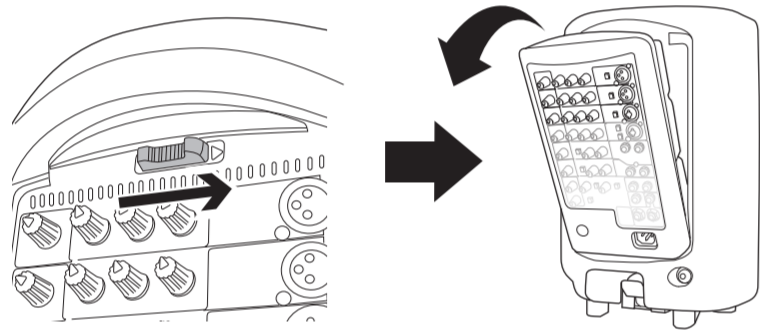
Main Features

- 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 of inputs.
- 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.

QuickStart Guide

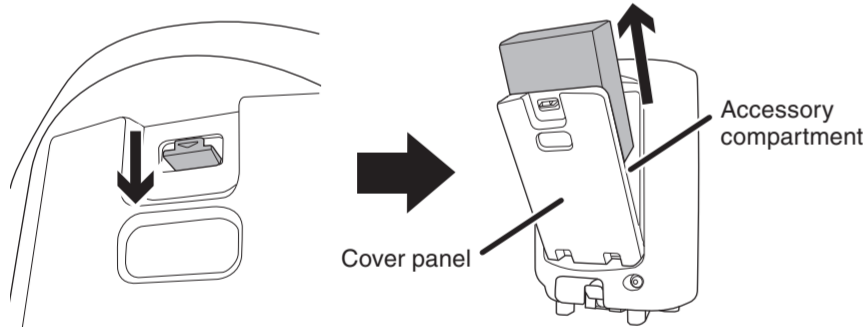
Connecting the speakers and the mixer

- 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.

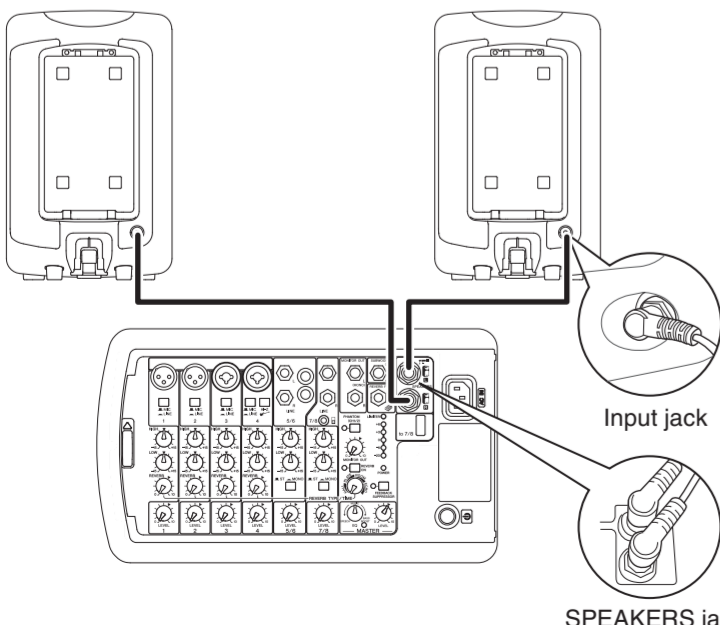
Two speaker cables and one power cord are included in the box.



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 compartment.

- 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.

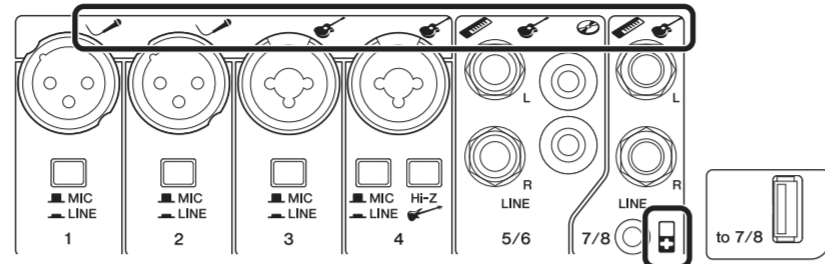


Caution
Use only the included speaker cables. Use of other cables may result in heat generation, or short circuiting.

Connecting microphones, instruments, and audio devices to the mixer

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

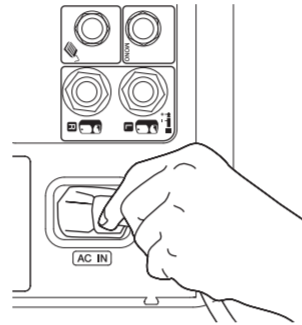
Refer to the illustration on the mixer shown below or the connection example of the cover panel of the accessory compartment.



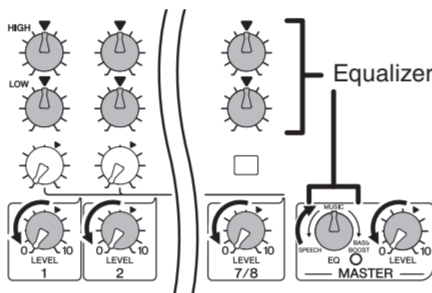
Getting sound out of the system

- Connect the included power cord.

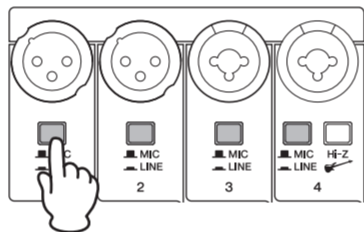
First, connect it to the mixer's AC IN connector, then to a power outlet.



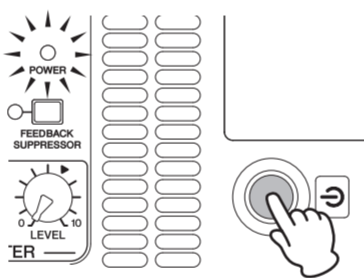
- Turn the mixer's LEVEL controls (white knobs) and MASTER LEVEL control (red knob) to the minimum (zero). Also, set the equalizer controls (green knobs) to the center "▼" or "MUSIC" position.



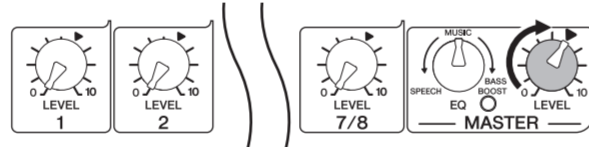
- Set the MIC/LINE switch to the MIC (M) position for microphone connection, and to the LINE (L) position for connection of an instrument or audio device.



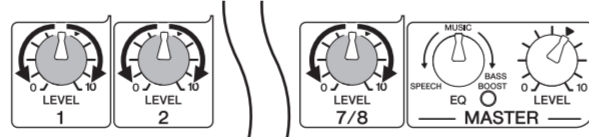
- Turn on the power of the connected sound source (if applicable), then the mixer. The POWER LED lights.



- Set the MASTER LEVEL control to the "▼" position.



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



- 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).

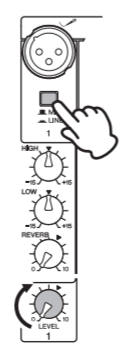
Making optimum volume settings

When the volume is too loud

Turn the LEVEL control to the minimum (zero). Set the MIC/LINE switch to the LINE (L) 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 (M) 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.

- Press down the REVERB switch to turn it on.

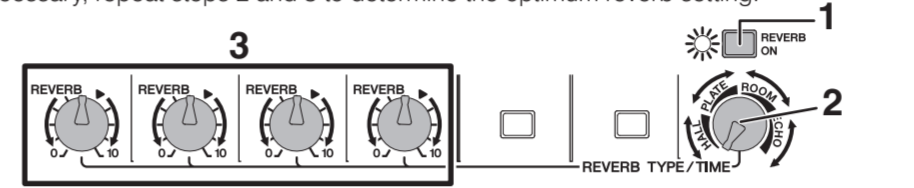
The LED lights when REVERB is on.

- 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.

- Use the REVERB control to adjust the reverb amount of the corresponding channel.

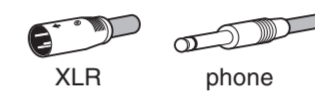
If necessary, repeat steps 2 and 3 to determine the optimum reverb setting.



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)

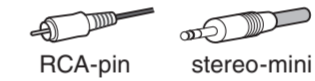
For low-level signals (including microphones), set the switch to the MIC (M) position. For high-level signals (including electronic instruments and audio equipment), set the switch to the LINE (L) position.

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

- 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 plugs.



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

- 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 hall.
PLATE: Simulated metal plate reverb, producing a more hard-edged 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 (i) is on.

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

Setting the switch to ST (STEREO) (S) 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 (M) 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 mono jacks.

- 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 peaks.

- 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.)

- 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 (i). If only the L (MONO) jack is used, the signals from the L and R channels are mixed and output.

- 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 (j).

- REVERB FOOT SW jack

This is for connection to an unlatched-type 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.

- 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

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

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, you can toggle the reverb on and off as needed with your foot.

Use the included speaker cables to connect the dedicated speakers.

- PHANTOM (CH1/2) switch /LED

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).

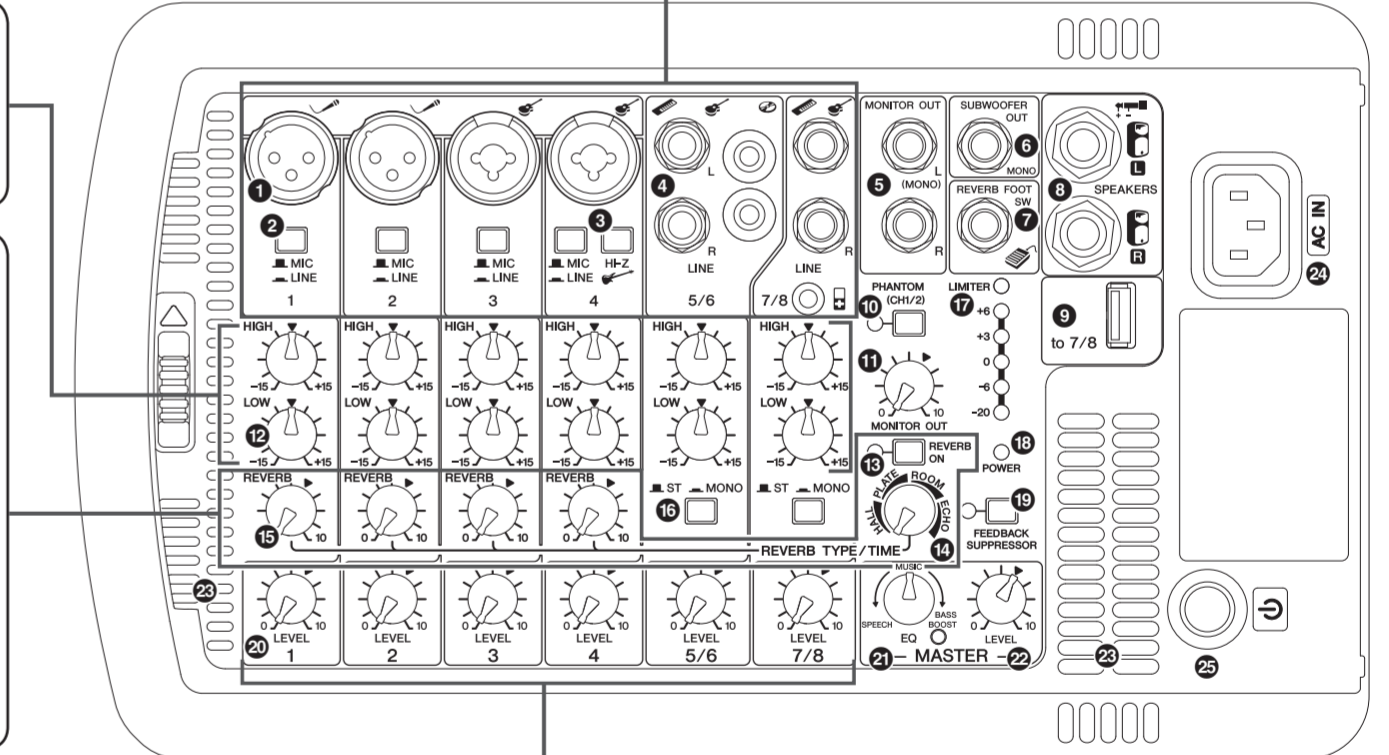
Caution

Follow the important precautions below, in order to prevent noise and possible damage to external devices and the unit when you operate this switch.

- Be sure to leave this switch off if you do not need phantom power, or when you connect a device that does not support phantom power to channels 1 or 2.
- Do not connect/disconnect a cable to/from channels 1 and 2 while this switch on.
- Turn the LEVEL control of the channels 1 and 2 to the minimum before operating this switch.

- MONITOR OUT control

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



- LEVEL controls

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

- 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.

- 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.

- Vents

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 (L) and off (M).

Caution

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.

