

KC-80



KC-200



Owner’s Manual

Keyboard Amplifier

KC-80

KC-200

Main Features

KC-80 and KC-200 are keyboard amps designed for high sound quality, and are suitable for a variety of sources such as keyboards and sound modules.

- They feature a two-way design with a speaker and tweeter.

	Speaker	Output
KC-80	25 cm	50 W
KC-200	30 cm	100 W

- The input section is equipped with a mixer (KC-80: three channels, KC-200: four channels). CH1 additionally provides an XLR connector that supports mic input. CH4 of the KC-200 is a dedicated monitor channel that is convenient for stage monitoring.
- SUB OUT is provided. If a powered subwoofer is connected to this jack, the low-frequency range can be reproduced even more powerfully.
- Two types of AUX IN jack (RCA phono and stereo mini-jack) are provided for easily connecting an audio player or other source.
- The two-band equalizer is convenient for adjusting the character of the sound.
- A speaker stand can be attached to allow convenient use as a monitor or small-scale PA.
- The headphone jack is convenient for monitoring at night, etc.

USING THE UNIT SAFELY



Before using this unit, carefully read “**IMPORTANT SAFETY INSTRUCTIONS**” (inside front cover), “**USING THE UNIT SAFELY**” (p. 2), and “**IMPORTANT NOTES**” (p. 3). After reading, keep the document(s) where it will be available for immediate reference.

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USING THE UNIT SAFELY

INSTRUCTIONS FOR THE PREVENTION OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

About ⚠ WARNING and ⚠ CAUTION Notices

 WARNING	Used for instructions intended to alert the user to the risk of death or severe injury should the unit be used improperly.
 CAUTION	Used for instructions intended to alert the user to the risk of injury or material damage should the unit be used improperly. * Material damage refers to damage or other adverse effects caused with respect to the home and all its furnishings, as well to domestic animals or pets.

About the Symbols

	The ⚠ symbol alerts the user to important instructions or warnings. The specific meaning of the symbol is determined by the design contained within the triangle. In the case of the symbol at left, it is used for general cautions, warnings, or alerts to danger.
	The ⚡ symbol alerts the user to items that must never be carried out (are forbidden). The specific thing that must not be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the unit must never be disassembled.
	The ⏏ symbol alerts the user to things that must be carried out. The specific thing that must be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the power-cord plug must be unplugged from the outlet.

ALWAYS OBSERVE THE FOLLOWING

WARNING

Make sure that the power cord is grounded

Connect mains plug of this model to a mains socket outlet with a protective earthing connection.



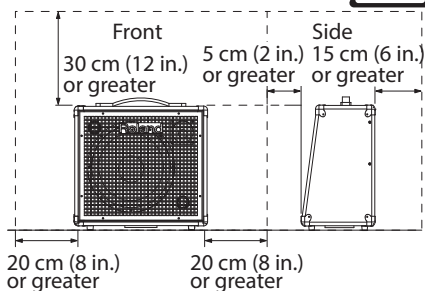
To completely turn off power to the unit, pull out the plug from the outlet

Even with the power switch turned off, this unit is not completely separated from its main source of power. When the power needs to be completely turned off, turn off the power switch on the unit, then pull out the plug from the outlet. For this reason, the outlet into which you choose to connect the power cord's plug should be one that is within easy reach and readily accessible.



Secure a sufficient amount of space at the setup location

Since this unit normally emits a slight amount of heat, make sure to secure sufficient space around it, as shown below.



Do not disassemble or modify by yourself

Do not carry out anything unless you are instructed to do so in the owner's manual. Otherwise, you risk causing malfunction.



Do not repair or replace parts by yourself

Refer all servicing to your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the “Information.”



WARNING

Do not use or store in the following types of locations

- Subject to temperature extremes (e.g., direct sunlight in an enclosed vehicle, near a heating duct, on top of heat-generating equipment); or are
- Damp (e.g., baths, washrooms, on wet floors); or are
- Exposed to steam or smoke; or are
- Subject to salt exposure; or are
- Exposed to rain; or are
- Dusty or sandy; or are
- Subject to high levels of vibration and shakiness; or are
- Placed in a poorly ventilated location.



Connect the power cord to an outlet of the correct voltage

The unit should be connected to a power supply only of the type described as marked on the rear side of unit.



Use only the supplied power cord

Use only the attached power cord. Also, the supplied power cord must not be used with any other device.



Do not bend the power cord or place heavy objects on it

Otherwise, fire or electric shock may result.



Avoid extended use at high volume

Use of the unit at high volume for extended periods of time may cause hearing loss. If you ever experience any hearing loss or ringing in the ears, you should immediately stop using the unit and consult a specialized physician.



Do not allow foreign objects or liquids to enter unit; never place containers with liquid on unit

Do not place containers containing liquid (e.g., flower vases) on this product. Never allow foreign objects (e.g., flammable objects, coins, wires) or liquids (e.g., water or juice) to enter this product. Doing so may cause short circuits, faulty operation, or other malfunctions.



WARNING

Turn off the unit if an abnormality or malfunction occurs

Immediately turn the unit off, remove the power cord from the outlet, and request servicing by your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the “Information” when:

- The power cord has been damaged; or
- If smoke or unusual odor occurs; or
- Objects have fallen into, or liquid has been spilled onto the unit; or
- The unit has been exposed to rain (or otherwise has become wet); or
- The unit does not appear to operate normally or exhibits a marked change in performance.



Be cautious to protect children from injury

Always make sure that an adult is on hand to provide supervision and guidance when using the unit in places where children are present, or when a child will be using the unit.



Do not drop or subject to strong impact

Otherwise, you risk causing damage or malfunction.



Do not share an outlet with an unreasonable number of other devices

Otherwise, you risk overheating or fire.



Do not use overseas

Before using the unit in overseas, consult with your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the “Information.”



Don't block ventilation openings

Don't allow the unit's ventilation openings to be blocked by a newspaper, tablecloth, curtains, or similar objects.



Don't place burning objects on the unit

Don't place any burning object (such as a candle) on the unit.



Be aware of weather conditions

Use the apparatus in moderate climates.



⚠ CAUTION

When disconnecting the power cord, grasp it by the plug

To prevent conductor damage, always grasp the power cord by its plug when disconnecting it.



Periodically clean the power plug

An accumulation of dust or foreign objects between the power plug and the power outlet can lead to fire or electric shock.

At regular intervals, be sure to pull out the power plug, and using a dry cloth, wipe away any dust or foreign objects that may have accumulated.



Disconnect the power plug whenever the unit will not be used for an extended period of time

Fire may result in the unlikely event that a breakdown occurs.



Route all power cords and cables in such a way as to prevent them from getting entangled

Injury could result if someone were to trip on a cable and cause the unit to fall or topple.



⚠ CAUTION

Avoid climbing on top of the unit, or placing heavy objects on it

Otherwise, you risk injury as the result of the unit toppling over or dropping down.



Never connect/disconnect a power plug if your hands are wet

Otherwise, you could receive an electric shock.



Disconnect all cords/cables before moving the unit

Before moving the unit, disconnect the power plug from the outlet, and pull out all cords from external devices.



Before cleaning the unit, disconnect the power plug from the outlet

If the power plug is not removed from the outlet, you risk receiving an electric shock.



⚠ CAUTION

Whenever there is a threat of lightning, disconnect the power plug from the outlet

If the power plug is not removed from the outlet, you risk causing malfunction or receiving an electric shock.



Do not remove the speaker grille and speaker

Do not remove the speaker grille and speaker by any means. Speaker is not user replaceable. Shock hazardous voltages and currents are present inside the enclosure.



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IMPORTANT NOTES

Power Supply

- Do not connect this unit to same electrical outlet that is being used by an electrical appliance that is controlled by an inverter or a motor (such as a refrigerator, washing machine, microwave oven, or air conditioner). Depending on the way in which the electrical appliance is used, power supply noise may cause this unit to malfunction or may produce audible noise. If it is not practical to use a separate electrical outlet, connect a power supply noise filter between this unit and the electrical outlet.

Placement

- Using the unit near power amplifiers (or other equipment containing large power transformers) may induce hum. To alleviate the problem, change the orientation of this unit; or move it farther away from the source of interference.
- Noise may be produced if wireless communications devices, such as cell phones, are operated in the vicinity of this unit. Such noise could occur when receiving or initiating a call, or while conversing. Should you experience such problems, you should relocate such wireless devices so they are at a greater distance from this unit, or switch them off.
- Do not allow lighting devices that normally are used while their light source is very close to the unit (such as a piano light), or powerful spotlights to shine upon the same area of the unit for extended periods of time. Excessive heat can deform or discolor the unit.
- When moved from one location to another where the temperature and/or humidity is very different, water droplets (condensation) may form inside the unit. Damage or malfunction may result if you attempt to use the unit in this condition. Therefore, before using the unit, you must allow it to stand for several hours, until the condensation has completely evaporated.

- Do not paste stickers, decals, or the like to this instrument. Peeling such matter off the instrument may damage the exterior finish.
- Depending on the material and temperature of the surface on which you place the unit, its rubber feet may discolor or mar the surface.
- Do not place containers or anything else containing liquid on top of this unit. Also, whenever any liquid has been spilled on the surface of this unit, be sure to promptly wipe it away using a soft, dry cloth.

Maintenance

- Never use benzine, thinners, alcohol or solvents of any kind, to avoid the possibility of discoloration and/or deformation.

Additional Precautions

- Use a reasonable amount of care when using the unit's buttons, sliders, or other controls; and when using its jacks and connectors. Rough handling can lead to malfunctions.
- When disconnecting all cables, grasp the connector itself—never pull on the cable. This way you will avoid causing shorts, or damage to the cable's internal elements.
- A small amount of heat will radiate from the unit during normal operation.
- To avoid disturbing others nearby, try to keep the unit's volume at reasonable levels.
- Do not use connection cables that contain a built-in resistor.

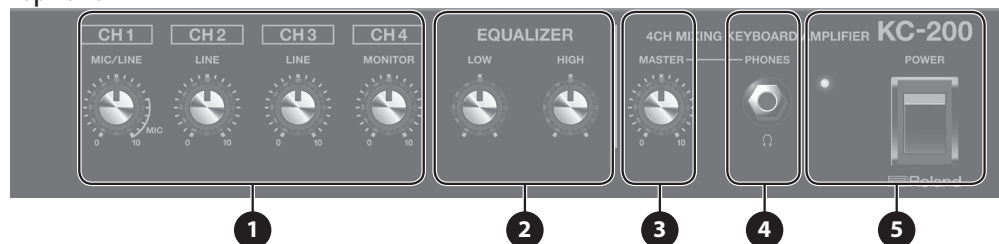
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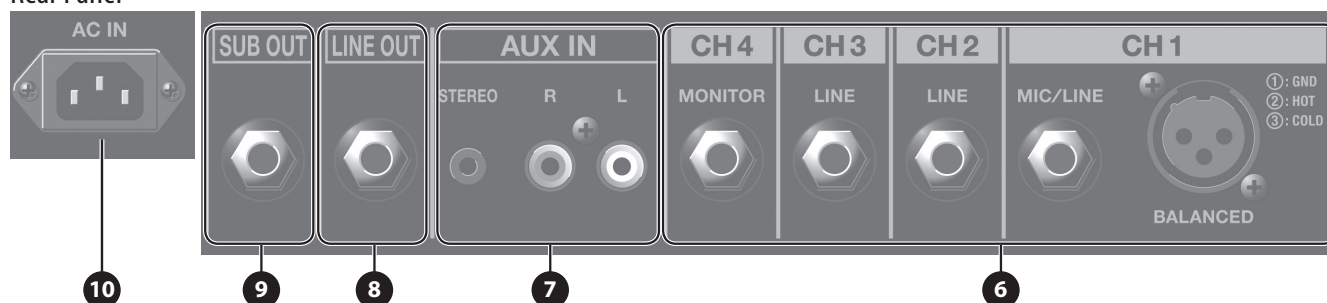
Panel Descriptions

* The illustration shows the KC-200. The KC-80 does not have a CH4 (MONITOR) knob or a CH4: MONITOR jack.

Top Panel



Rear Panel



1 [CH1]–[CH4] knobs (the KC-80 has only [CH1]–[CH3])

Adjust the volume of the devices connected to CH1 (XLR jack, MIC/LINE jack), CH2/CH3 (LINE jack), and CH4 (MONITOR jack).

2 EQUALIZER

[LOW] knob

Adjusts the sound level of the low-frequency range.

[HIGH] knob

Adjusts the sound level of the high-frequency range.

3 [MASTER] knob

Adjusts the overall volume.

This knob also simultaneously adjusts the volume that is output from the SUB OUT jack.

* The [MASTER] knob does not adjust the signal that is output from the LINE OUT jack.

4 PHONES jack

You can connect headphones here.

To adjust the volume, use the [CH1]–[CH4] knobs and the [MASTER] knob.

* If a plug is inserted in this jack, no sound will be output from the unit's own speaker. This is convenient if you don't want loud sound to be produced from the speaker, such as when you're practicing at night.

5 [POWER] switch

Turns the power on/off. When the power is on, the indicator at the left of this switch is lit.

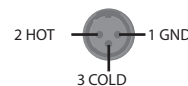
6 CH1–CH4 input jacks

CH1: BALANCED jack, MIC/LINE jack

CH1 is equipped with a phone-type MIC/LINE jack and a balanced XLR-type BALANCED jack that is convenient for connecting a mic.

This channel supports levels ranging from mic input level (-50 dBu) through line input level (-20 dBu) for sources such as a sound module.

* Pin assignment of CH1 BALANCED jack



CH2, CH3 : LINE jacks

Use these for connecting keyboards, sound modules, and other devices.

They accept line level input (-20 dBu).

CH4: MONITOR jack (KC-200 only)

CH 4 is dedicated to monitoring channel. The signal that is input to CH 4 will not be output from the line out jack, but will be output only from the internal speaker and from the headphones.

You can use the KC-200 for talkback from the main PA or as a monitor for live performances on stage or in other locations; this is an easy and convenient way to allow only the performer or performers to monitor the guide sounds from drum machines.

Use this for connecting keyboards, sound modules, and other devices. This accepts line level input (-20 dBu).

7 AUX IN (STEREO, R/L) jacks

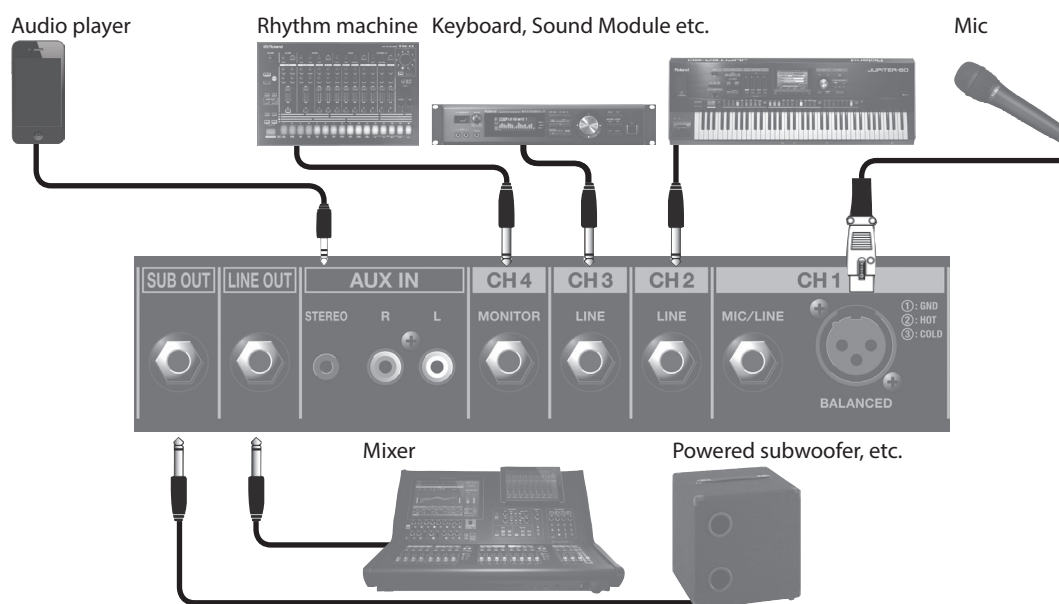
Here you can connect an audio player, electronic musical instrument, or similar audio source, and listen to it while you perform.

8 LINE OUT jack

Connect this to your mixer or recorder.

The front panel knobs do not affect the volume or tone of the output from the LINE OUT jack.

Example connections



* To prevent malfunction and equipment failure, always turn down the volume, and turn off all the units before making any connections.

9 SUB OUT jack

You can connect this jack to a powered subwoofer or an external powered monitor. You can use the front panel knobs to adjust the volume and tone of the output from the SUB OUT jack.

10 AC IN jack

Connect the included power cord.

* Use only the power cord that was included with the unit.

Turning the Power On/Off

* Once everything is properly connected, be sure to follow the procedure below to turn on their power. If you turn on equipment in the wrong order, you risk causing malfunction or equipment failure.

1. Make sure that this unit's [MASTER] knob and the volume of the devices connected to this unit are set to "0."
2. Turn on all the devices connected to the unit's input jacks (CH1–CH4, AUX IN).
3. Turn on the unit.
4. Turn on all the devices connected to the unit's output jacks (LINE OUT, SUB OUT, PHONES).
5. Adjust the volume levels for the devices.

Before switching off the power, lower the volume on each of the devices in your system and then turn off the devices in the reverse order to which they were switched on.

* Before turning the unit on/off, always be sure to turn the volume down. Even with the volume turned down, you might hear some sound when switching the unit on/off. However, this is normal and does not indicate a malfunction.

* If you need to turn off the power completely, first turn off the unit, then unplug the power cord from the power outlet. Refer to "To completely turn off power to the unit, pull out the plug from the outlet" (p. 2).

Setting the Volume of Each Device

In order to get optimum sound from this unit when performing, set the volume as described below.

1. Use the [CH1]–[CH4] knobs to adjust the volume balance of the devices connected to CH1–CH4.

To adjust the volume of the device connected to the AUX IN jacks, make adjustments on the connected device.

2. Use the [LOW] knob and [HIGH] knob to adjust the tone to your taste.

3. Use the [MASTER] knob to adjust the overall volume.

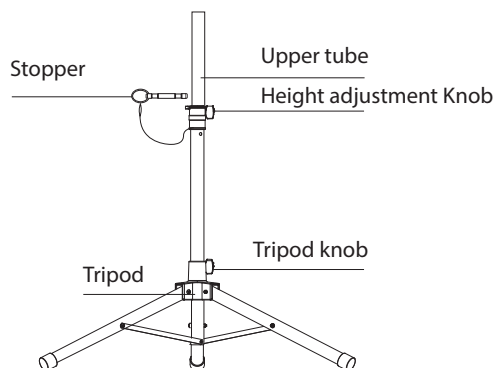
If the sound is distorted, adjust the [CH1]–[CH4] knobs and [MASTER] knob, or adjust the volume knob of the devices connected to the inputs (CH1–CH4, AUX IN).

Using a Speaker Stand

By using this unit with the ST-A95 speaker stand (sold separately), it can be positioned at the ideal height for monitoring or use as a simple PA system.

Attaching the ST-A95 stand

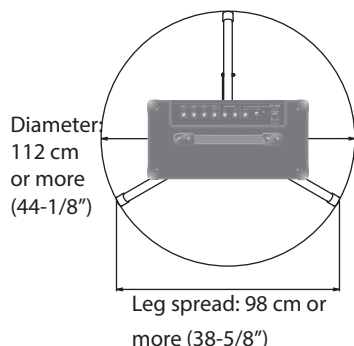
- * You must obtain the assistance of at least one other person when attaching the unit to the speaker stand, or when adjusting the height of the speaker stand with the unit attached.
- * When setting up, take care not to pinch your fingers.



1. Loosen the tripod knob, and open the tripod.

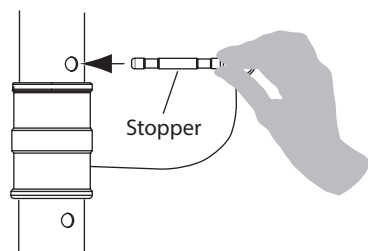
After you've opened the tripod sufficiently, tighten the tripod knob.

- * As shown in the illustration below, open the tripod so that its feet are 98 cm apart. The tripod will be unstable if it is not opened wide enough.



2. Loosen the height adjustment knob, and extend the upper pipe.

3. Insert the stopper into the upper tube to obtain the desired height, up to a maximum height of 140 cm for the stand.



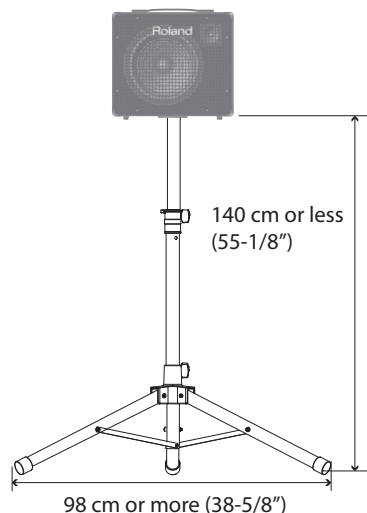
- * The stopper must be inserted when using the system.

4. Tighten the height adjustment knob.

5. Insert the unit onto the upper tube.

WARNING

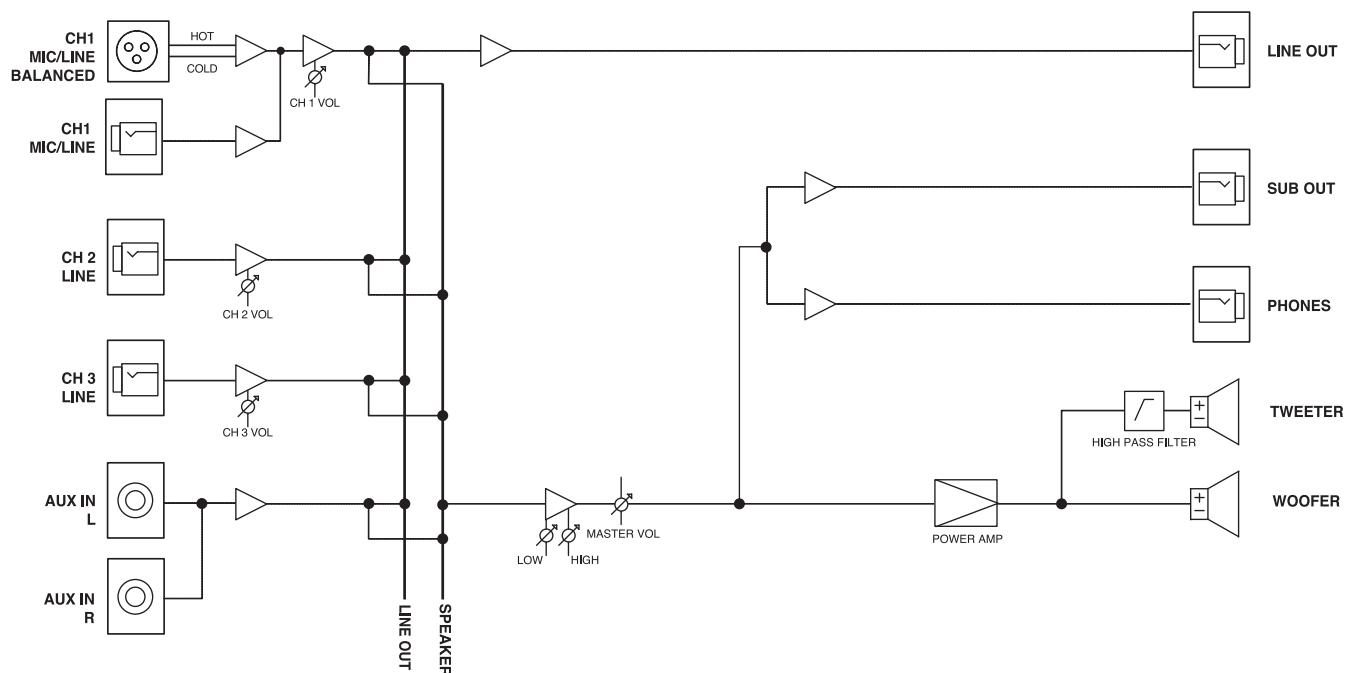
- The KC-80 and KC-200 are designed to be used only in combination with a Roland-manufactured speaker stand (ST-A95). Do not use it with any other stand.
- As shown in the illustration below, adjust the speaker stand to a height of no more than 140 cm, and open the tripod to a spread of 98 cm or more.



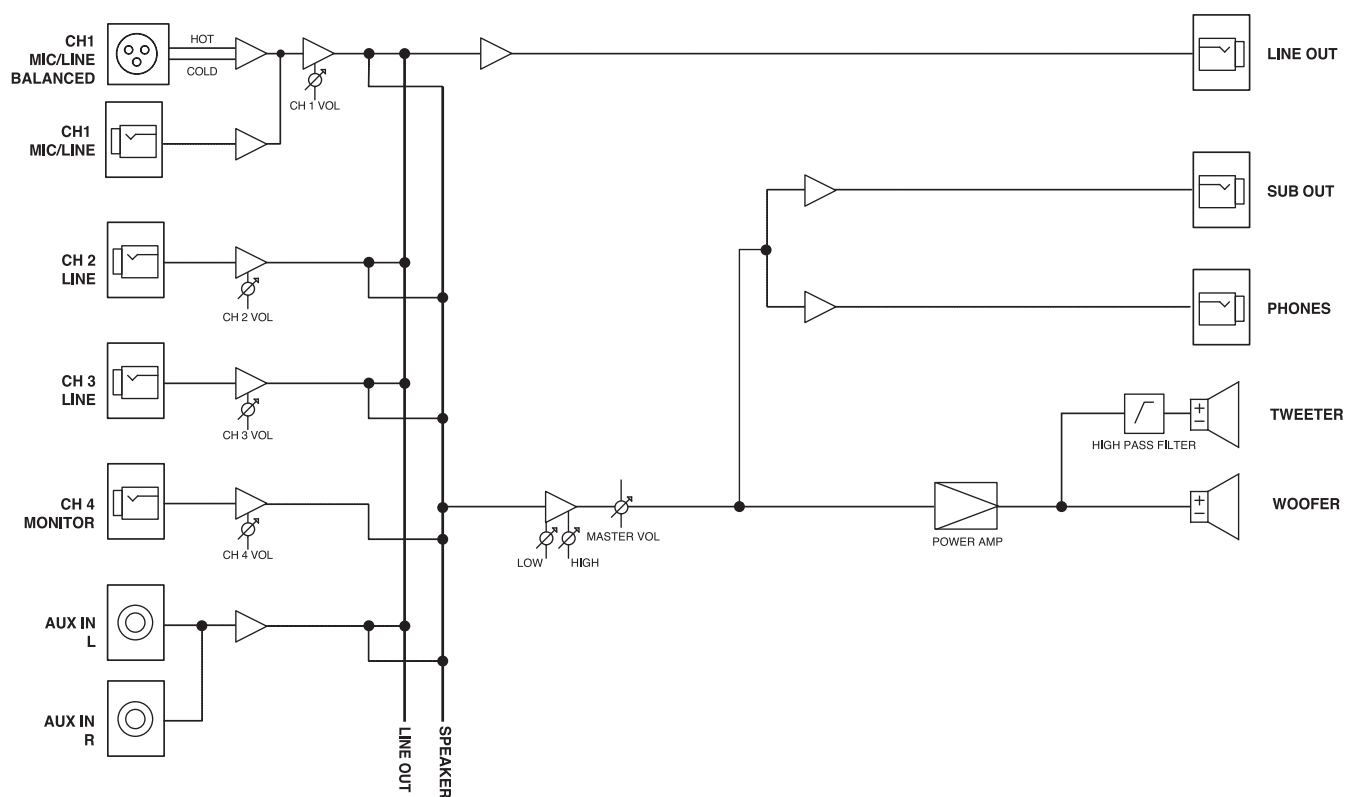
- Adjusting the speaker stand to a height greater than 140 cm or the tripod to a spread of less than 98 cm may allow the system to fall over, resulting in damage or personal injury.
- If you use the unit with a speaker stand, do not place it on an unstable or tilted location. You must place the system on a stable, horizontal location.
- Cables connected to the unit should have enough slack, so that they will not cause an accident if someone trips over them.
- To prevent accidents caused by falling objects, do not place anything on top of a unit that is mounted on a speaker stand.

Block Diagram

KC-80



KC-200



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Main Specifications

Roland KC-80: 3-CH MIXING KEYBOARD AMPLIFIER

Roland KC-200: 4-CH MIXING KEYBOARD AMPLIFIER

	KC-80	KC-200
Rated Power Output	50 W	100 W
Nominal Input Level (1 kHz)	CH1 (MIC/LINE): -50 – -20 dBu CH2 (LINE): -20 dBu CH3 (LINE): -20 dBu AUX IN (L, R, STEREO): -10 dBu	CH1 (XLR type, MIC/LINE): -50 – -20 dBu CH2 (LINE): -20 dBu CH3 (LINE): -20 dBu CH4 (MONITOR): -20 dBu AUX IN (L, R, STEREO): -10 dBu
Nominal Output Level (1 kHz)	LINE OUT: +4 dBu SUB OUT: +4 dBu	
Speakers	Full Range: 25 cm (10 inches) x 1 Tweeter: x 1	Full Range: 30 cm (12 inches) x 1 Tweeter: x 1
Indicator	Power	
Connectors	CH1 (MIC/LINE) jack: 1/4-inch phone type CH2 (LINE) jack: 1/4-inch phone type CH3 (LINE) jack: 1/4-inch phone type AUX IN (L, R) jacks: RCA phono type AUX IN (STEREO) jack: Stereo miniature phone type LINE OUT jack: 1/4-inch phone type SUB OUT jack: 1/4-inch phone type PHONES jack: 1/4-inch TRS phone type (mono signal output)	CH1 jack: XLR type CH1 (MIC/LINE) jack: 1/4-inch phone type CH2 (LINE) jack: 1/4-inch phone type CH3 (LINE) jack: 1/4-inch phone type CH4 (MONITOR) jack: 1/4-inch phone type AUX IN (L, R) jacks: RCA phono type AUX IN (STEREO) jacks: Stereo miniature phone type LINE OUT jack: 1/4-inch phone type SUB OUT jack: 1/4-inch phone type PHONES jack: 1/4-inch TRS phone type (mono signal output)
Power Consumption	50 W	70 W
Dimensions	420 (W) x 300 (D) x 410 (H) mm 16-9/16 (W) x 11-13/16 (D) x 16-3/16 (H) inches	480 (W) x 295 (D) x 435 (H) mm 18-15/16 (W) x 11-5/8 (D) x 17-1/8 (H) inches
Weight	12.5 kg 27 lbs 9 oz	15 kg 33 lbs 2 oz
Accessory	Owner's Manual	
Options (sold separately)	Speaker stand: ST-A95	

* 0 dBu = 0.775 Vrms

* This document explains the specifications of the product at the time that the document was issued. For the latest information, refer to the Roland website.