



WAZA Amp Head
150 W output

BOSS WAZA AMP

Boss Waza Craftsmanship Evolves Into The Creation Of An Ultimate Rock Sound Amp

In the early 1960s, the evolution of the electric guitar and its components began influencing art. The sweet overdrive sound of what came to be known as the “sound of rock” was made possible by an impressive line of tube guitar amps. The evolution of these amps, reflecting the passion of master builders in search of an enhanced musical expression, gave birth to the legendary “brown sound.” This same passion is what inspired BOSS engineers in their pursuit of the ideal rock sound. While the basic circuit block designs of amps have not changed all that much, engineers over the years have painstakingly contributed to the evolution of the rock sound through many phases of inherited craftsmanship and tuning. Fast forward to today: the BOSS Waza Craftsmanship team, through their proven expertise, has given birth to the new BOSS Waza Amp. The BOSS Waza Amp has contributed to that evolutionary process through Waza Craftsmanship with the ideal brown sound for today’s passionate artists.



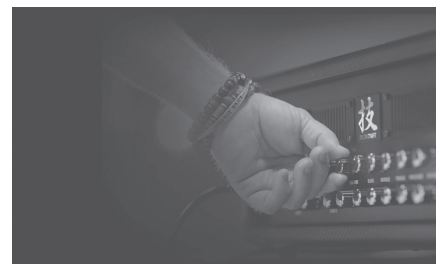
The Wisdom Of The Past Dictates The Future

The vintage Marshall JTM 45 amplifier circuitry was based on the popular 1959 Fender “Tweed” Bassman 5F6A circuit. Today, both are legendary amplifiers, each providing their own unique tone. As the first-generation amplifiers evolved, component and cosmetic changes often took place; therefore there are a few different variations of these early amplifiers. The Marshall amp had evolved to 100-watt amp heads such as the “Plexi.” The power tube is 6L6 for the Fender, but for the Marshall, four EL34s with a parallel push-pull design are used to meet the demand of musicians for more output. As a result, the EL34 sound has been established as the rock sound. Almost all stack amps have been tuned based on the basic circuitry of the early stack amp, including the new BOSS Waza Amp, which promises to carry on the legacy.



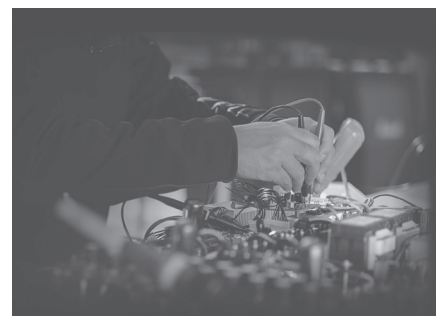
The Ideal Rock Sound Continues To Evolve

The representative hard rock sound of the ‘70s and ‘80s is known as the “brown sound.” What then, is the “Waza Brown Sound?” In developing the new Waza Amp, BOSS has been able to achieve the chewy sustain of the rich tube distortion, while at the same time achieving high clarity with a dynamic response to the picking nuances of the player. In addition, a chunky clean sound can be achieved just by turning down the guitar volume. The sustain of the lead sound is sweet, and the elastic rhythm sound has such high clarity that each note of a chord can be heard. The dynamic sound change reflected by a player’s picking emotion emphasizes the sound presence in a band ensemble. To produce the Waza Brown Sound, BOSS engineers devoted much time and effort in finding the perfect setting combinations, such as tweaking the AC power voltage and experimenting with various configurations while driving speaker and custom load boxes.



Persistent Ingenuity For Greater Expression

Through their circuitry tuning innovations and expertise, BOSS engineers have made specialized fine adjustments to achieve the ideal brown sound. Historically, there have been many masterpiece stack amps with complex overtone changes created by adding different distortions in each stage of serially connected multiple tubes. By adjusting the balance of each stage, the basic distortion is created. However, the basic sound is not expressive enough. Fine adjustments with the interaction of each stage of distortion and many other factors are very important. Not only that, by adjusting how much the interactive factors respond to a picking attack, and by controlling how the distortions of each stage vary as the sound sustains, a truly expressive sound can be created. Based on the accumulated expertise of BOSS regarding distortion and Roland with in Tube Logic, the “Waza Brown Sound” not only means the sound is “brown,” but that the expressiveness is also “brown.”






USING THE UNIT SAFELY

Before using this unit, carefully read the sections entitled "IMPORTANT SAFETY INSTRUCTIONS" (inside front cover), "USING THE UNIT SAFELY" (p. 2), and "IMPORTANT NOTES" (p. 3). These sections provide important information concerning the proper operation of the unit. Additionally, in order to feel assured that you have gained a good grasp of every feature of your new unit, read Owner's Manual in its entirety. This manual should be saved and kept on hand as a convenient reference.







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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.



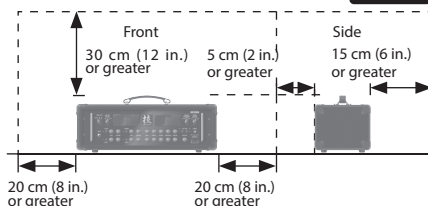
To completely turn off power to the unit, pull out the plug from the outlet

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.



Do not place in a location that is unstable

When using the unit with a speaker cabinet or a rack recommended by Roland, the stand must be carefully placed so it is level and sure to remain stable. If not using a stand, you still need to make sure that any location you choose for placing the unit provides a level surface that will properly support the unit, and keep it from wobbling.



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.



WARNING

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.



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."



Turn the unit off before installing the Tone Capsule

Before installing the Tone Capsule, you must first always turn off the WAZA Amp Head and unplug its power cord.



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 from this unit or from a power outlet.



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.



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 receiving an electric shock.



CAUTION

Install only specified Tone Capsule

Install only the specified Tone Capsule (WAZA Amp compatible). Remove only the specified screws (p. 6).



Keep small items out of the reach of children

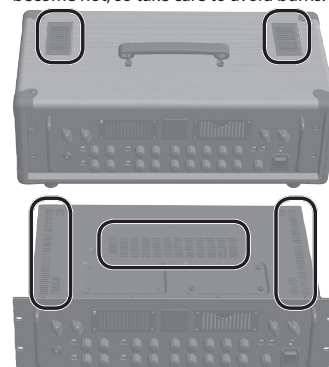
To prevent accidental ingestion of the parts listed below, always keep them out of the reach of small children.



- Removable Parts
Thumb screws (p. 6)
Screws (p. 7)

Take care not to get burned

The area shown in the illustration may become hot, so take care to avoid burns.



English

日本語

Deutsch

Français

Italiano

Español

Português

Nederlands

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.
- This unit may interfere with radio and television reception. Do not use this unit in the vicinity of such receivers.
- 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.
- 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.
- 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 benzene, thinners, alcohol or solvents of any kind, to avoid the possibility of discoloration and/or deformation.

Additional Precautions

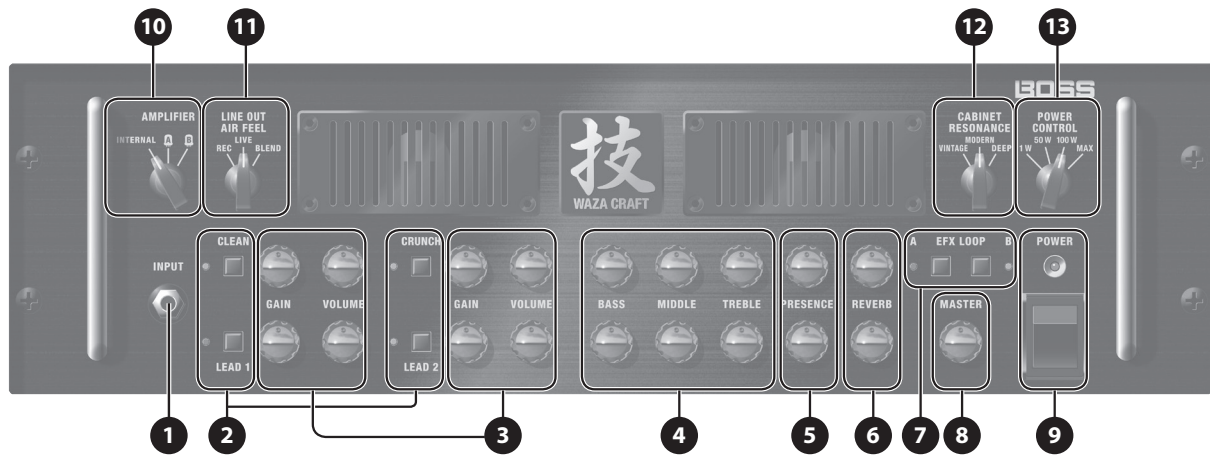
- Use a reasonable amount of care when using the unit's buttons, sliders, or other controls; and when using its jacks and connectors. Rough handling can lead to malfunctions.
- When disconnecting all cables, grasp the connector itself—never pull on the cable. This way you will avoid causing shorts, or damage to the cable's internal elements.
- Heat will radiate from the unit during normal operation.
- To avoid disturbing others nearby, try to keep the unit's volume at reasonable levels.

Intellectual Property Right

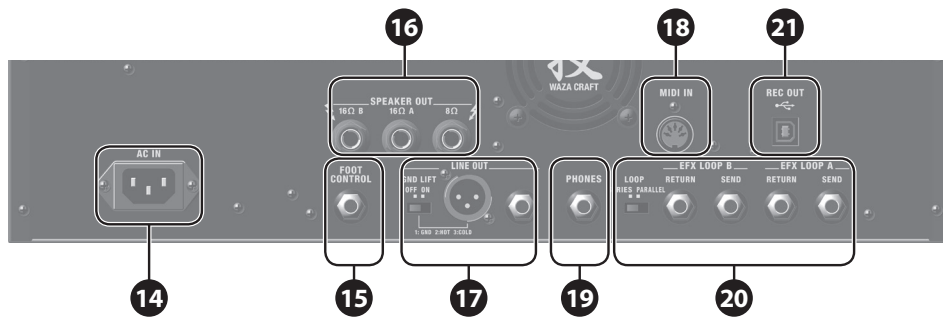
- Roland and BOSS are either registered trademarks or trademarks of Roland Corporation in the United States and/or other countries.
- MMP (Moore Microprocessor Portfolio) refers to a patent portfolio concerned with microprocessor architecture, which was developed by Technology Properties Limited (TPL). Roland has licensed this technology from the TPL Group.
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Panel Descriptions

Front Panel



Rear Panel



Front Panel

1 INPUT jack

Connect your electric guitar here.

2 Channel select

Selects the channel.

Channel	Explanation
CLEAN	Clean sound. Raising the volume produces a crunch sound with distortion in the power amp.
CRUNCH	Crunch sound distorted in the preamp. Raising the volume also produces a crunch sound with distortion in the power amp.
LEAD 1	Sound that can cover the range from crunch to high-gain, depending on the gain.
LEAD 2	Sound with the most high-gain and sustain.

3 [GAIN] knobs / [VOLUME] knobs

[GAIN] knobs

Adjusts the gain (amount of distortion) of the channel.

[VOLUME] knobs

Adjusts the volume of the channel.

4 [BASS] / [MIDDLE] / [TREBLE] knobs

Adjust the volume of the low-, mid-, and high-frequency ranges respectively.

5 [PRESENCE] knob

Adds lustrous outline to the mid- and high-frequency range. This is effective when you want to improve the definition of the sound.

6 [REVERB] knob

Adjusts the reverb depth.

MEMO

The upper row of [BASS] / [MIDDLE] / [TREBLE] / [PRESENCE] / [REVERB] knobs are common to the CLEAN/CRUNCH channels, and the lower row is common to the LEAD 1/LEAD 2 channels.

7 [EFX LOOP A / EFX LOOP B] buttons

Switches on/off an external effect that is connected to the EFX LOOP A / EFX LOOP B jacks.

8 [MASTER] knob

Adjusts the overall volume.

9 [POWER] switch

Turns the power of the WAZA Amp Head on/off. When the power is on, the indicator above this switch is lit.

10 [AMPLIFIER] switch

Switches the type of amp.

Value	Explanation
INTERNAL	The internal sound which is based on the EL34, providing a standard amp sound.
A	The WAZA Brown Sound. When shipped from the factory, the included Tone Capsule is already installed. The Tone Capsule installed in slot A is lit (p. 6). You can also insert a separately sold tone capsule.
B	The Tone Capsule installed in slot B is lit (p. 6). You can also insert a separately sold tone capsule. * When shipped from the factory, a Tone Capsule is not installed.

11 [LINE OUT AIR FEEL] switch

Specifies the sound of the LINE OUT/PHONES/USB Post Out (p. 7).

Value	Explanation
REC	A distantly-miked sound for recording.
LIVE	A close-miked sound for live.
BLEND	A sound providing a good blend of closed-miked and distantly-miked sound that can be broadly used for live or recording.

12 [CABINET RESONANCE] switch

Adds the resonance of a connected speaker cabinet.

Value	Explanation
VINTAGE	The warm and sweet sound of a vintage cabinet.
MODERN	A modern cabinet sound notable for a tight low-end.
DEEP	Sound with powerful low-end as well as a distinctive edge.

13 [POWER CONTROL] switch

Lets you switch the output level of the power amp according to your location or needs. The MAX setting selects the maximum output (150 W).

Rear Panel

14 AC IN jack

Connect the included power cord.

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

15 FOOT CONTROL jack

Refer to "Using the Foot Controller" (p. 6).

16 SPEAKER OUT jacks

Connect a speaker box (separately sold; e.g., the WAZA Amp Cabinet412, the WAZA Amp Cabinet212).

Jack usage	8Ω (If this jack is used, 16ΩA/16ΩB cannot be used.) Either 16ΩA or 16ΩB Both 16ΩA and 16ΩB
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- * Only use speaker cable to connect the speaker. Do not use any shielded cable designed for use with guitars.
- * To prevent malfunction and equipment failure, always turn down the volume, and turn off all the units before making any connections.

17 LINE OUT jacks

Connect this to your PA system or recorder. You can obtain powerful guitar amp sound just as if you were playing through the speaker. You can use this in conjunction with an external PA system, or to record your performance via direct line while monitoring the sound from the connected speaker cabinet.

Adjust the output level using the [VOLUME] knob of each channel.

- * The WAZA Amp Head is equipped with a balanced (XLR) type jack. Wiring diagrams for the jack is shown below. Make connections after first checking the wiring diagrams of other equipment you intend to connect.



[GND LIFT] switch

Loop hum noise may occur when other external devices are connected to the WAZA Amp Head. In such instances, you may be able to mitigate the problem by switching the position of the [GND LIFT] switch. The [GND LIFT] switch should be normally set to OFF.

Switch	Description
ON	Pin 1 is disconnected from the WAZA Amp Head's ground.
OFF	Pin 1 connects to the WAZA Amp Head's ground.

18 MIDI IN connector

You can control the WAZA Amp Head from a multi-effect unit or a MIDI foot controller.

How the MIDI receive channel is specified

Receive channel	Operation
CH 1	Hold down the [CLEAN] button while turning the power on.
CH 2	Hold down the [CRUNCH] button while turning the power on.
CH 3	Hold down the [LEAD 1] button while turning the power on.
CH 4	Hold down the [LEAD 2] button while turning the power on.

For the MIDI messages that can be received, refer to "WAZA AMP MIDI IN" at the end of this manual.

- * The receive channel setting is remembered even when the power is turned off.

19 PHONES jack

Connect headphones here. You can obtain powerful guitar sounds just as if you were playing through the speaker. To adjust the volume, use the [VOLUME] knob of each channel, along with the [MASTER] knob.

- * If a plug is inserted in this jack, no sound will be output from the connected speaker cabinet. This is convenient if you don't want loud sound to be produced from the speaker, such as when you're practicing at night.
- * The output of the PHONES jack is mono.

20 EFX LOOP A/B, SEND/RETURN jacks

Connect an external effect device (mono).

Connect the SEND jack to the input of your external effect device, and connect the output of your external effect device to the RETURN jack.

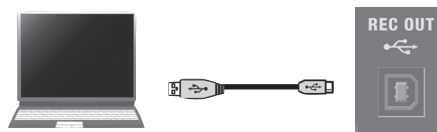
[LOOP] switch

Value	Explanation
PARALLEL	The external effects sound and the direct sound are mixed.
SERIES	Only the external effects sound is played.

- * When SERIES is set, if the volume of the external effects unit is turned down completely, or the power is not turned on, no sound will be heard.

21 REC OUT port

You can use a commercially available USB 2.0 cable to record the sound of the WAZA Amp Head into your computer.



You must install the USB driver when connecting the unit to your computer.

Download the USB driver from the BOSS website. For details, refer to Readme.htm which is included in the download.

www.boss.info

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 the WAZA Amp Head's [MASTER] knob and the volume of the devices connected to the WAZA Amp Head are set to 0.

- * Before connecting your instrument to the WAZA Amp Head's INPUT jacks, set the [VOLUME] knob to the minimum setting (far left).

2. Turn on the WAZA Amp Head.

- * 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.
- * This unit is equipped with a protection circuit. A brief interval (a few seconds) after turning the unit on is required before it will operate normally.



- * This unit is equipped with a cooling fan in order to prevent internal overheating. When you turn on the power, the fan will spin briefly to verify that it is operating correctly.

3. Turn on the power of the connected devices.

4. 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.

- * 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).

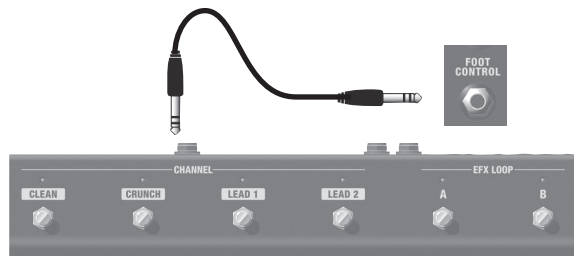
Using the Foot Controller

You can connect the included Foot Controller to switch channels and turn effects on/off.

Connecting the foot controller

Connect a stereo cable to the FOOT CONTROL jack.

- * Always use a stereo cable.
- * Use cables that do not contain resistors.



Using the foot controller

You can use the foot controller to switch between CLEAN, CRUNCH, LEAD 1, and LEAD 2. You can also switch EFX LOOP A/B on/off.

Using the expression pedals

By connecting expression pedals (Roland EV-5, BOSS FV-500L, BOSS FV-500H; sold separately), you can change the volume and master volume by pedal.



Jack	Explanation
VOLUME	Adjusts the volume of each channel.
MASTER	Adjusts the master volume. This lets you use volume changes as a performance technique, or to mute your instrument. * The master volume that is controlled by the expression pedal connected to this jack is different than that of the [MASTER] knob on the panel.

Setting minimum volume of an expression pedal

With the minimum volume knob of an expression pedal, you can set the value for when the pedal is lifted up all the way (lowest value).



- * Use only the specified expression pedal (Roland EV-5, BOSS FV-500L, BOSS FV-500H; sold separately). By connecting any other expression pedals, you risk causing malfunction and/or damage to the unit.

Installing a Tone Capsule

A Tone Capsule is a dedicated capsule that can be installed in this unit to add or expand new amp sounds. The WAZA Amp Head has two slots (A/B). A separately sold Tone Capsule created specifically for the WAZA amp can be installed in each slot.

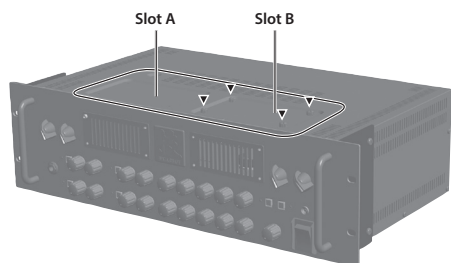
- * When the unit is shipped from the factory, the included capsule is already installed in slot A.

1. Remove the unit from its case.

See "Removing the Unit from Its Case" (p. 7).

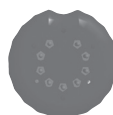
2. Remove the slot cover.

Loosen the thumb screws (four locations on each slot) and remove the cover.

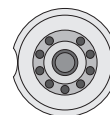


3. Align the pins of the Tone Capsule with the pin sockets in the slot, and insert the Tone Capsule.

Bottom of the Tone Capsule



Socket in the slot



Turn the unit off before installing the Tone Capsule

Before installing the Tone Capsule, you must first always turn off the WAZA Amp Head and unplug its power cord.

Install only specified Tone Capsule

Install only the specified Tone Capsule (WAZA Amp compatible). Remove only the specified screws.

To avoid the risk of damage to internal components that can be caused by static electricity, please avoid touching the connectors whenever you handle the Tone Capsule.



Tone Capsule illumination

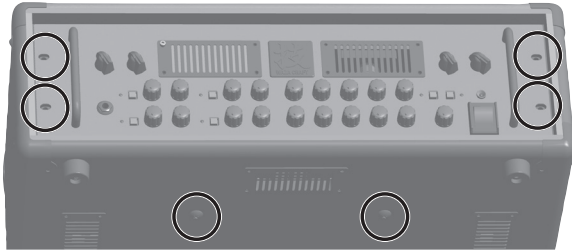
The Tone Capsules installed in slots A/B are illuminated differently depending on the setting of the [AMPLIFIER] switch (p. 4). By holding down the [EFX LOOP B] button while you turn the power on, you can switch between the following three modes.

- The Tone Capsule selected by the switch is brightly lit, and the one that is not selected is dimly lit (factory settings).
- Only the selected Tone Capsule is lit.
- The Tone Capsules are not lit at all, regardless of the setting of the [AMPLIFIER] switch.

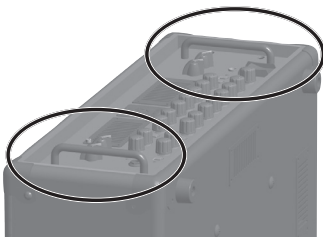
Removing the Unit from Its Case

You can remove the WAZA Amp Head unit from its dedicated case. This lets you use screws at four locations on the front panel to mount the unit in a general-purpose 19-inch rack.

1. Remove screws from four locations on the front panel and from two locations on the bottom of the dedicated case.



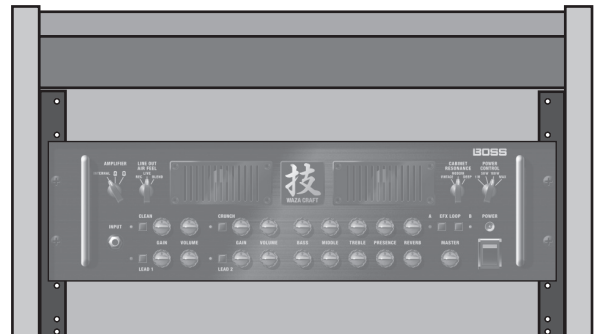
2. Grasp both handles and pull the unit out of the case.



* When removing or installing the unit, take care that protrusions such as the rubber feet on the bottom or the thumb screws of the Tone Capsule slots do not contact the inside of the case.

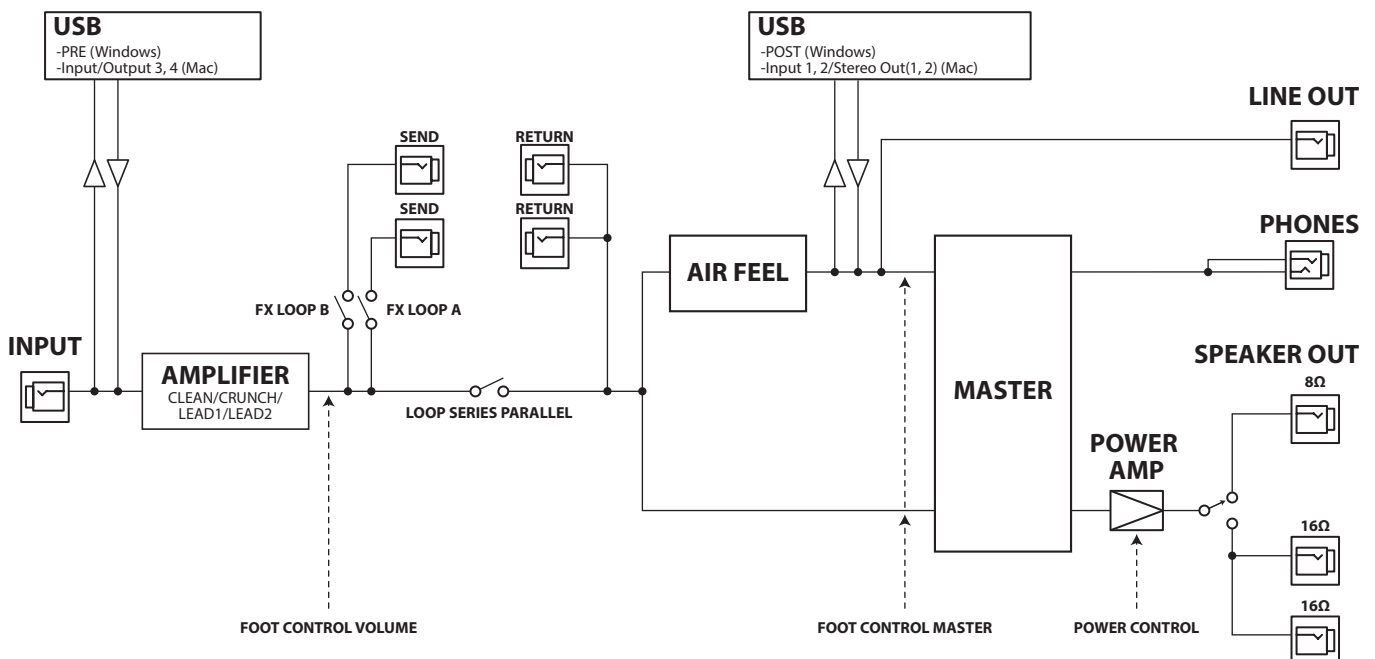
Mounting in a general-purpose rack

You can remove the WAZA Amp Head from its dedicated case and mount it in a general-purpose 19-inch rack.



- * If you are mounting other equipment in the same rack with this unit, leave at least 1U of unoccupied space above and below this unit. Also, do not place any object within 15 cm (6 inches) from the rear panel.
- * When mounting the unit on a rack, be careful so as to protect the buttons and knobs from damage. Also, handle the unit carefully; do not drop it.


Block Diagram



- * No sound will be output from the speaker when a plug is connected to the PHONES jack.
- * If the 8Ω jack is used, 16ΩA/16ΩB cannot be used.

Main Specifications

BOSS WAZA Amp Head (WAZA-HEAD): Guitar Amplifier

Rated Power Output	150 W
Nominal Input Level	INPUT: -10 dBu (1 M Ω) EFX LOOP A RETURN: -10 dBu EFX LOOP B RETURN: -10 dBu
Controls	[POWER] switch [CLEAN CH SELECT] switch [CRUNCH CH SELECT] switch [LEAD 1 CH SELECT] switch [LEAD 2 CH SELECT] switch [AMPLIFIER] switch: INTERNAL, A, B [LOOP] switch: SERIES, PARALLEL <CLEAN channel> [GAIN] knob [VOLUME] knob <CRUNCH channel> [GAIN] knob [VOLUME] knob <CLEAN/CRUNCH channel EQUALIZER> [BASS] knob [MIDDLE] knob [TREBLE] knob [PRESENCE] knob <LEAD 1 channel> [GAIN] knob [VOLUME] knob <LEAD 2 channel> [GAIN] knob [VOLUME] knob <LEAD 1/LEAD 2 channel EQUALIZER> [BASS] knob [MIDDLE] knob [TREBLE] knob [PRESENCE] knob <EFFECT> [EFX LOOP A] button [EFX LOOP B] button CLEAN/CRUNCH channel [REVERB] knob LEAD 1/LEAD 2 channel [REVERB] knob <MASTER> [MASTER] knob [LINE OUT AIR FEEL] switch: REC, LIVE, BLEND [CABINET RESONANCE] switch: VINTAGE, MODERN, DEEP [POWER CONTROL] switch: 1 W, 50 W, 100 W, MAX <LINE OUT> [GND LIFT] switch
Indicators	CLEAN CHANNEL CRUNCH CHANNEL LEAD 1 CHANNEL LEAD 2 CHANNEL EFX LOOP A EFX LOOP B POWER
Connectors	INPUT jack: 1/4-inch phone type LINE OUT jack: 1/4-inch phone type LINE OUT jack: XLR type PHONES jack: Stereo 1/4-inch phone type FOOT CONTROL jack: 1/4-inch TRS phone type EFX LOOP A SEND jack: 1/4-inch phone type EFX LOOP A RETURN jack: 1/4-inch phone type EFX LOOP B SEND jack: 1/4-inch phone type EFX LOOP B RETURN jack: 1/4-inch phone type REC OUT  port: USB type B MIDI IN jack SPEAKER OUT 16 Ω A jack: 1/4-inch phone type SPEAKER OUT 16 Ω B jack: 1/4-inch phone type SPEAKER OUT 8 Ω jack: 1/4-inch phone type AC IN jack
Power Consumption	110 W
Dimensions	529 (W) x 302 (D) x 225 (H) mm (incl. Handle and Foot) 20-7/8 (W) x 11-15/16 (D) x 8-7/8 (H) inches
Weight	15 kg 33 lbs 2 oz
Accessories	Tone Capsule (Pre-installed) Owner's manual Power cord Speaker Connection Cable Foot Controller Foot Controller Connection Cable: Stereo
Options (sold separately)	WAZA Amp Cabinet212 (WAZA-212) WAZA Amp Cabinet412 (WAZA-412)

* 0 dBu = 0.775 Vrms

* In the interest of product improvement, the specifications and/or appearance of this unit are subject to change without prior notice.

WAZA Amp Head MIDI IN

RECOGNIZED RECEIVE DATA

RX CH		1-4	
OMNI		OFF (fixed)	
PC		1 (00H) : CLEAN	
		2 (01H) : CRUNCH	
		3 (02H) : LEAD 1	
		4 (03H) : LEAD 2	
		5 (04H) - 128 (7FH) : Ignored	
CC	#16	EFX LOOP A SW	0 - 63 : OFF, 64 - 127 : ON
	#17	EFX LOOP B SW	
	#18	UPPER REVERB SW	
	#19	LOWER REVERB SW	

For the USA

FEDERAL COMMUNICATIONS COMMISSION RADIO FREQUENCY INTERFERENCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment requires shielded interface cables in order to meet FCC class B limit.

Any unauthorized changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For Canada

CAN ICES-3 (B)/NMB-3 (B)

For Korea

사용자 안내문

기종별	사용자 안내문
B 급 기기 (가정용 방송통신기자재)	이 기기는 가정용(B 급) 전자파적합기기로서 주로 가정에서 사용하는 것을 목적으로 하며, 모든지역에서 사용할 수 있습니다.

For C.A. US (Proposition 65)

WARNING

This product contains chemicals known to cause cancer, birth defects and other reproductive harm, including lead.



For the USA

DECLARATION OF CONFORMITY Compliance Information Statement

Model Name : WAZA-HEAD
Type of Equipment : GUITAR AMPLIFIER
Responsible Party : Roland Corporation U.S.
Address : 5100 S. Eastern Avenue, Los Angeles, CA 90040-2938
Telephone : (323) 890-3700

For EU Countries



- UK** This symbol indicates that in EU countries, this product must be collected separately from household waste, as defined in each region. Products bearing this symbol must not be discarded together with household waste.
- DE** Dieses Symbol bedeutet, dass dieses Produkt in EU-Ländern getrennt vom Hausmüll gesammelt werden muss gemäß den regionalen Bestimmungen. Mit diesem Symbol gekennzeichnete Produkte dürfen nicht zusammen mit dem Hausmüll entsorgt werden.
- FR** Ce symbole indique que dans les pays de l'Union européenne, ce produit doit être collecté séparément des ordures ménagères selon les directives en vigueur dans chacun de ces pays. Les produits portant ce symbole ne doivent pas être mis au rebut avec les ordures ménagères.
- IT** Questo simbolo indica che nei paesi della Comunità europea questo prodotto deve essere smaltito separatamente dai normali rifiuti domestici, secondo la legislazione in vigore in ciascun paese. I prodotti che riportano questo simbolo non devono essere smaltiti insieme ai rifiuti domestici. Ai sensi dell'art. 13 del D.Lgs. 25 luglio 2005 n. 151.
- ES** Este símbolo indica que en los países de la Unión Europea este producto debe recogerse aparte de los residuos domésticos, tal como esté regulado en cada zona. Los productos con este símbolo no se deben depositar con los residuos domésticos.
- PT** Este símbolo indica que nos países da UE, a recolha deste produto deverá ser feita separadamente do lixo doméstico, de acordo com os regulamentos de cada região. Os produtos que apresentem este símbolo não deverão ser eliminados juntamente com o lixo doméstico.
- NL** Dit symbool geeft aan dat in landen van de EU dit product gescheiden van huishoudelijk afval moet worden aangeboden, zoals bepaald per gemeente of regio. Producten die van dit symbool zijn voorzien, mogen niet samen met huishoudelijk afval worden verwijderd.
- DK** Dette symbol angiver, at i EU-lande skal dette produkt opsamles adskilt fra husholdningsaffald, som defineret i hver enkelt region. Produkter med dette symbol må ikke smides ud sammen med husholdningsaffald.
- NO** Dette symbolet indikerer at produktet må behandles som spesialavfall i EU-land, iht. til retningslinjer for den enkelte regionen, og ikke kastes sammen med vanlig husholdningsavfall. Produkter som er merket med dette symbolet, må ikke kastes sammen med vanlig husholdningsavfall.

- SE** Symbolen anger att i EU-länder måste den här produkten kasseras separat från hushållsavfall, i enlighet med varje regions bestämmelser. Produkter med den här symbolen får inte kasseras tillsammans med hushållsavfall.
- FI** Tämä merkitä ilmaisee, että tuote on EU-maissa kerättävä erillään kotitalousjätteistä kunkin alueen voimassa olevien määräysten mukaisesti. Tällä merkinnällä varustettuja tuotteita ei saa hävittää kotitalousjätteiden mukana.
- HU** Ez a szimbólum azt jelenti, hogy az Európai Unióban ezt a terméket a háztartási hulladéktól elkülönítve, az adott régióban érvényes szabályozás szerint kell gyűjteni. Az ezzel a szimbóllummal ellátott termékeket nem szabad a háztartási hulladék közé dobni.
- PL** Symbol oznacza, że zgodnie z regulacjami w odpowiednim regionie, w krajach UE produktu nie należy wyrzucać z odpadami domowymi. Produktów opatrzonych tym symbolem nie można utylizować razem z odpadami domowymi.
- CZ** Tento symbol udává, že v zemích EU musí být tento výrobek sbíráán odděleně od domácího odpadu, jak je určeno pro každý region. Výrobky nesoucí tento symbol se nesmí vyhazovat spolu s domácím odpadem.
- SK** Tento symbol vyjadruje, že v krajinách EÚ sa musí zber tohto produktu vykonávať oddelene od domového odpadu, podľa nariadení platných v konkrétnej krajine. Produkty s týmto symbolom sa nesmú vyhazovať spolu s domovým odpadom.
- EE** See sümbol näitab, et EL-i maades tuleb see toode olemprügist eraldi koguda, nii nagu on igas piirkonnas määratletud. Selle sümboliga märgitud tooteid ei tohi ära visata koos olmeprügiga.
- LT** Šis simbolis rodo, kad ES šalyse šis produktas turi būti surenkamas atskirai nuo buitinių atliekų, kaip nustatyta kiekviename regione. Šiuo simboliu paženklinoti produktai neturi būti išmetami kartu su buitiniems atliekoms.
- LV** Šis simbols norāda, ka ES valstīs šo produktu jāievāc atsevišķi no mājsaimniecības atkritumiem, kā noteikts katrā reģionā. Produkta ar šo simbolu nedrīkst izmest kopā ar mājsaimniecības atkritumiem.
- SI** Ta simbol označuje, da je treba proizvod v državah EU zbirati ločeno od gospodinjjskih odpadkov, tako kot je določeno v vsaki regiji. Proizvoda se tem znakom ni dovoljeno odlagati skupaj z gospodinjjskimi odpadki.
- GR** Το σύμβολο αυτό υποδηλώνει ότι στις χώρες της Ε.Ε. το συγκεκριμένο προϊόν πρέπει να συλλέγεται χωριστά από τα υπόλοιπα οικιακά απορρίμματα, σύμφωνα με όσα προβλέπονται σε κάθε περιοχή. Τα προϊόντα που φέρουν το συγκεκριμένο σύμβολο δεν πρέπει να απορρίπτονται μαζί με τα οικιακά απορρίμματα.

For China

有关产品中所含有害物质的说明

本资料就本公司产品中所含的特定有害物质及其安全性予以说明。

本资料适用于 2007 年 3 月 1 日以后本公司所制造的产品。

环保使用期限



此标志适用于在中国国内销售的电子信息产品，表示环保使用期限的年数。所谓环保使用期限是指在自制造日起的规定的期限内，产品中所含的有害物质不致引起环境污染，不会对人身、财产造成严重的不良影响。环保使用期限仅在遵照产品使用说明书，正确使用产品的条件下才有效。不当的使用，将会导致有害物质泄漏的危险。

产品中有毒有害物质或元素的名称及含量

部件名称	有毒有害物质或元素					
	铅(Pb)	汞(Hg)	镉(Cd)	六价铬(Cr(VI))	多溴联苯(PBB)	多溴二苯醚(PBDE)
外壳(壳体)	×	○	○	○	○	○
电子部件(印刷电路板等)	×	○	×	○	○	○
附件(电源线、交流适配器等)	×	○	○	○	○	○

○：表示该有毒有害物质在该部件所有均质材料中的含量均在 SJ/T11363-2006 标准规定的限量要求以下。
 ×：表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 SJ/T11363-2006 标准规定的限量要求。
 因根据现有的技术水平，还没有什么物质能够代替它。

