

Owner's Manual

Guitar Amplifier



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 A WARNING and A CAUTION Notices

Used for instructions intended to alert the user to the risk of death or severe injury **∆**WARNING should the unit be used improperly. Used for instructions intended to alert the user to the risk of injury or material damage should the unit be used improperly.

⚠ CAUTION

* Material damage refers to damage or other adverse effects caused with respect to the home and all its furnishings, as well to domestic animals

About the Symbols

- The \triangle 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 \bigcirc 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

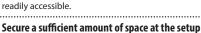
Make sure that the power cord is grounded

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

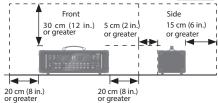
Even with the power switch turned off, this unit is not completely separated from its main source of power. When the power needs to be completely turned off, turn off the power switch on the unit, then pull out the plug from the outlet. For this reason, the outlet into which you choose to connect the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



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

location





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

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 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



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

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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.



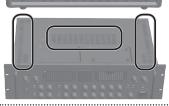
Removable Parts
 Thumb screws (p. 6)
 Screws (p. 7)

Take care not to get burned

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







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 benzine, thinners, alcohol or solvents of any kind, to avoid the possibility of discoloration and/or deformation.

Additional Precautions

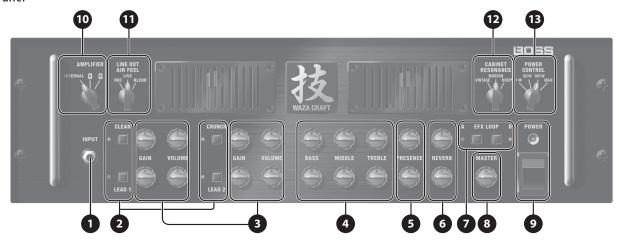
- Use a reasonable amount of care when using the unit's buttons, sliders, or other controls; and when using its jacks and connectors. Rough handling can lead to malfunctions.
- When disconnecting all cables, grasp the connector itself—never pull on the cable. This way you will avoid causing shorts, or damage to the cable's internal elements.
- · 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

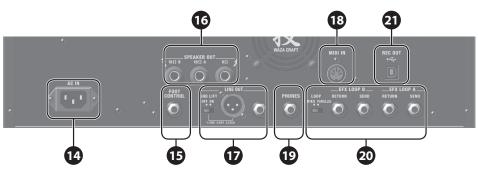
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Panel Descriptions

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.

[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.	
В	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.	

[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.	

[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).

	8Ω (If this jack is used, $16\Omega A/16\Omega B$ cannot be used.)	
Jack usage	Either 16ΩA or 16ΩB	
	Both $16\Omega A$ and $16\Omega B$	

- * 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 1: GND 2: 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.	

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 lack.

[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.

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.

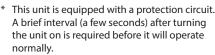
Download the USB driver from the BOSS website. For details, refer to Readme.htm which is included in the download.

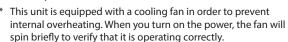
www.boss.info

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.

- 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.





- 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.
	Adjusts the master volume. This lets you use volume changes as a performance technique, or to mute your instrument.
MASTER	* 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.

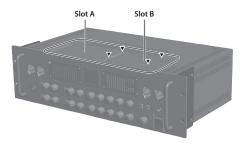
* When the unit is shipped from the factory, the included capsule is already installed in slot A.

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.

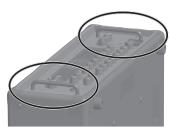
Removing the Unit from Its Case

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.

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



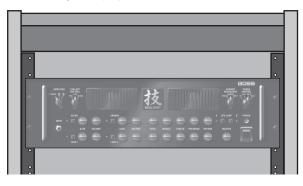
2. Grasp both handles and pull the unit out of the case.



* 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.

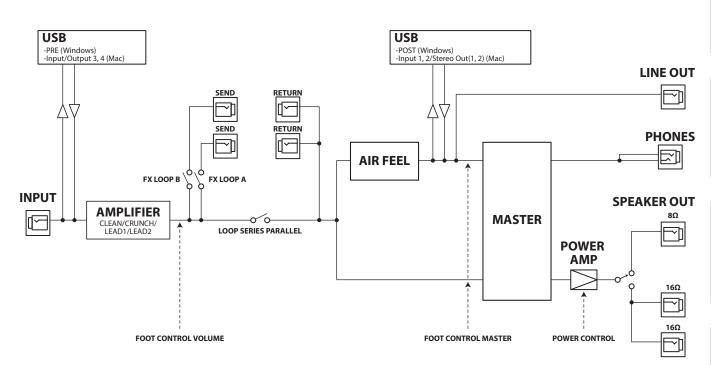
Mounting in a general-purpose rack

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 with in 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
	[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</clean>
	<crunch channel=""> [GAIN] knob [VOLUME] knob</crunch>
	<clean channel="" crunch="" equalizer=""> [BASS] knob [MIDDLE] knob [TREBLE] knob [PRESENCE] knob</clean>
Controls	<lead 1="" channel=""> [GAIN] knob [VOLUME] knob</lead>
	<lead 2="" channel=""> [GAIN] knob [VOLUME] knob</lead>
	<lead 1="" 2="" channel="" equalizer="" lead=""> [BASS] knob [MIDDLE] knob [TREBLE] knob [PRESENCE] knob</lead>
	CEFFECT> [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</master>
	<line out=""> [GND LIFT] switch</line>
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 B SEND 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 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 529 (W) x 302 (D) x 225 (H) mm (incl. Handle and Foot)
Dimensions	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
	Foot Controller Connection Cable: Stereo

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

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	이 기기는 가정용(B 급) 전자파적합기기로서 주로 가정에서 사용하는 것을 목적으로 하며,
(가정용 방송통신기자재)	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



- 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.
- 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 den Hausmüll entsorgt werden.
- 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.
- Questo simbolo indica che nei paesi della Comunità europea questo prodotto deve essere smaltito separatamente dai normali riffuti domestici, secondo la legislazione in vigore in ciascun paese. I prodotti che riportano questo simbolo non devono essere smaltiti insieme ai riffuti domestici. Ai sensi dell'art. 13 del D.Lgs. 25 luglio 2005 n. 151.
- Est 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.
- 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.
- 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.
- 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.
- 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.

- 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.
- Tämä merkintä ilmaisee, että tuote on EU-maissa kerättävä erillään kotitalousjätteistä kunkin alueen voimassa olevien määräysten mukaisesti. Tällä merkinnällä varustettuja tuotteita ei saa hävittää kotitalousiätteiden mukana.
- 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 szimbólummal ellátott termékeket nem szabad a háztartási hulladék közé dobni.
- 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.
- Tento symbol udává, že v zemích EU musí být tento výrobek sbírán odděleně od domácího odpadu, jak je určeno pro každý region. Výrobky nesoucí tento symbol se nesmí vyhazovat spolu s domácím odpadem.
- 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 vyhadzovať spolu s domovým odpadom.
- 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.
- Šis simbolis rodo, kad ES šalyse šis produktas turi būti surenkamas atskirai nuo buitinių atliekų, kaip nustatyta kiekviename regione. Šiuo simboliu paženklinti produktai neturi būti išmetami kartu su buitinėmis atliekomis.
- Šis simbols norāda, ka ES valstīs šo produktu jāievāc atsevišķi no mājsaimniecības atkritumiem, kā noteikts katrā reģionā. Produktus ar šo simbolu nedrīkst izmest kopā ar mājsaimniecības atkritumiem.
- Ta simbol označuje, da je treba proizvod v državah EU zbirati ločeno od gospodinjskih odpadkov, tako kot je določeno v vsaki regiji. Proizvoda s tem znakom ni dovoljeno odlagati skupaj z gospodinjskimi odpadki.
- Το σύμβολο αυτό υποδηλώνει ότι στις χώφες της Ε.Ε. το συγκεκομμένο ποοϊόν ποέπει να συλλέγεται χωφιστά από τα υπόλοιπα οικιακά αποφοίμματα, σύμφωνα με όσα ποοβλέπονται σε κάθε περιοχή. Τα ποοϊόντα που φέφουν το συγκεκομμένο σύμβολο δεν ποέπει να αποφοίττονται μαζί με τα οικιακά αποφοίμματα.

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)	×	0	0	0	0	0
电子部件(印刷电路板等)	×	0	×	0	0	0
附件(电源线、交流适配器等)	×	0	0	0	0	0

- 〇: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。

Information

When you need repair service, call your nearest Roland Service Center or authorized Roland distributor in your country as shown below.

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MARCEL FO-YAM Sarl 25 Rue Jules Hermann, Chaudron - BP79 97 491 Ste Clotilde Cedex

REUNION ISLAND TEL: (0262) 218-429

SOUTH AFRICA

Paul Bothner(PTY)Ltd. Royal Cape Park, Unit 24 Londonderry Road, Ottery 7800 Cape Town, SOUTH AFRICA TEL: (021) 799 4900

ASIA

CHINA

Roland Shanghai Electronics Co.,Ltd.

5F. No.1500 Pingliang Road, Yangpu Shanghai 200090, CHINA TEL: (021) 5580-0800 Toll Free: 4007-888-010

Roland Shanghai Electronics Co.,Ltd. (BEIJING OFFICE)

3F, Soluxe Fortune Building 63 West Dawang Road, Chaoyang Beijing, CHINA TEL: (010) 5960-2565/0777 Toll Free: 4007-888-010

HONG KONG

Tom Lee Music 11/F Silvercord Tower 1

30 Canton Rd Tsimshatsui, Kowloon, HONG KONG TEL: 852-2737-7688

Parsons Music Ltd.

8th Floor, Railway Plaza, 39 Chatham Road South, T.S.T. Kowloon, HONG KONG TEL: 852-2333-1863

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Rivera Digitec (India) Pvt. Ltd. 411. Nirman Kendra Mahalaxmi

Flats Compound Off. Dr. Edwin Moses Road, Mumbai-400011, INDIA

TEL: (022) 2493 9051

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KAZAKHSTAN

Alatau Dybystary

141 Abylai-Khan ave, 1st floor, 050000 Almaty, KAZAKHSTAN TEL: (727) 2725477 FAX: (727) 2720730

KOREA

Cosmos Corporation 27, Banpo-daero, Seocho-gu, Seoul, KOREA

TEL: (02) 3486-8855 MALAYSIA

Roland Asia Pacific Sdn. Bhd.

45-1, Block C2, Jalan PJU 1/39, Dataran Prima, 47301 Petaling Java, Selangor, MALAYSIA TEL: (03) 7805-3263

MYANMAR

THAW AND ZIN FAMILY CO., LTD. 4061-4062, Taw Win Cente

Level-3, Yangon, MYANMAR TEL: 09 31010744 / 09 5061300

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G.A. Yupangco & Co. Inc. 339 Gil J. Puyat Avenue Makati, Metro Manila 1200, PHILIPPINES TEL: (02) 899 9801

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Swee Lee Service Centre

12 Jalan Kilang Barat #01-00 Singapore 159354 TEL: (+65) 6376 6141

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9F-5, No. 112 Chung Shan North Road Sec. 2 Taipei 104, TAIWAN TEL: (02) 2561 3339

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100-108 Soi Verng Nakornkasem, New Road, Sumpantawong, Bangkok 10100, THAILAND TEL: (02) 224-8821

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VIET THUONG CORPORATION

386 CACH MANG THANG TAM ST. DIST.3, HO CHI MINH CITY, VIFT NAM TEL: (08) 9316540

CARIBBEAN

BARBADOS

A&B Music Supplies LTD

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Orionweg 30 Curacao, Netherland Antilles TEL: (305) 5926866

DOMINICAN REPUBLIC Instrumentos Fernando Giraldez

Calle Roberto Pastoriza #325 Sanchez Naco Santo Domingo, DOMINICAN REPUBLIC TEL: (809) 683 0305

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AMR Ltd Ground Floor Maritime Plaza

Barataria TRINIDAD W.I. TEL: (868) 638 6385

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ARGENTINA

Instrumentos Musicales S.A.

Av Santa Fe 2055 (1123) Buenos Aires, ARGENTINA TEL: (011) 4508-2700

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Roland Brasil Ltda.

Rua San Jose, 211 Parque Industrial San Jose Cotia - Sao Paulo - SP, BRAZIL TEL: (011) 4615 5666

CHILE

Audiomusica SpA

Av. Chile España 393 Ñuñoa Santiago, CHILE TEL: (+56) 2 2384 20 00

COLOMBIA

CENTRO MUSICAL S.A.S.

Parque Industrial del Norte Bodega 130 GIRARDOTA - ANTIOQUIA, COLOMBIA TEL: (454) 57 77 EXT 115

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Casa Instrumental Calzada Roosevelt 34-01,zona 11 Ciudad de Guatemala. GUATEMAI A TEL: (502) 599-2888

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Almacen Pajaro Azul S.A. de C.V. BO.Paz Barahona

3 Ave 11 Calle S O San Pedro Sula, HONDURAS TEL: (504) 553-2029

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Boulevard Andrews, Albrook Panama City, REP. DE PANAMA TEL: 315-0101

PARAGUAY

WORLD MUSIC Jebai Center 2018, Centro CIUDAD DE ESTE, PARAGUAY TEL: (595) 615 059

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Audiomusica Peru SAC Av.Angamos Oeste 737

Piso 3 Miraflors

Lima, PERU TEL: (+57) 1 2557005

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Av.las industrias edf.Guitar import #7 zona Industrial de Turumo Caracas VENEZUELA TEL: (212) 244-1122

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BELGIUM/FRANCE/ HOLLAND/ **LUXEMBOURG**

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ROSNIA AND **HERZEGOVINA**

Mix-AP Music

78000 Banja Luka, Veselina Maslese 3, ROSNIA AND HERZEGOVINA TEL: 65 403 168

CROATIA ART-CENTAR

Degenova 3. HR - 10000 Zagreb, CROATIA TEL: (1) 466 8493

EUROMUSIC AGENCY

K. Racina 1/15 HR - 40000 CAKOVEC, CROATIA Tel: 40-370-841

CZECH REPUBLIC CZECH REPUBLIC DISTRIBUTOR s.r.o

Pod Bání 8 180 00 Praha 8, CZECH REP. TEL: 266 312 557

DENMARK/ESTONIA/ LATVIA/LITHUANIA

Roland Scandinavia A/S Skagerrakvej 7, DK-2150 Nordhavn, DENMARK TEL: 39166200

FINI AND

Roland Scandinavia As, Filial Finland

Vanha Nurmijarventie 62 01670 Vantaa, FINLAND TEL: (0) 9 68 24 020

GERMANY/AUSTRIA

ROLAND Germany GmbH. Adam-Opel-Strasse 4, 64569 Nauheim, GERMANY TEL: 6152 95546-00

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155, New National Road Patras 26442, GREECE TEL: 2610 435400

HUNGARY Roland East Europe Ltd.

2045. Törökbálint, FSD Park 3. ép., HUNGARY TEL: (23) 511 011

IRELAND

Roland Ireland E2 Calmount Park, Calmount Avenue, Dublin 12, Republic of IRELAND

ITALY

TEL: (01) 4294444

Roland Italy S. p. A. Viale delle Industrie 8,

20020 Arese, Milano, ITALY TEL: (02) 937781

MACEDONIA

MK MJUZIK Bratstvo Edinstvo 9 2208 Lozovo, MACEDONIA TEL: 70 264 458

MONTENEGRO

MAX-AP

P. Fah 92 Przno, Kamenovo bb 86000 Budva, MONTENEGRO TEL: 33 452-820

NORWAY

TEL: 2273 0074

Roland Scandinavia Avd. Kontor Norge Lilleakerveien 2 Postboks 95

Lilleaker N-0216 Oslo NORWAY

POI AND

ROLAND POLSKA SP. Z O.O. ul. Katy Grodziskie 16B 03-289 Warszawa, POLAND

TEL: (022) 678 9512

PORTUGAL Roland Iberia S.L. Branch Office Porto

Rua 5 de Outubro nº 5587 4465-082 Sao Mamede de Infesta, Porto, PORTUGAL TEL: (+351) 22 01 39 526

ROMANIA

Pro Music Concept SRL 440221 Satu Mare B-dul Independentei nr. 14/a.,

ROMANIA TEL: (0361) 807-333

RUSSIA Roland Music LLC Dorozhnaya ul.3,korp.6 117 545 Moscow, RUSSIA TEL: (495) 981-4967

SERBIA

Music AP Sutjeska br. 5 XS - 24413 PALIC, SFRRIA

TEL: (0) 24 539 395 **SLOVAKIA**

DAN Distribution, s.r.o. Povazská 18. SK - 940 01 Nové Zámky. SLOVAKIA TEL: (035) 6424 330

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Roland Iberia S.L.

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Roland Scandinavia A/S SWEDISH SALES OFFICE

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EURHYTHMICS Ltd.

P.O.Box: 37-a. Nedecey Str. 30 UA - 89600 Mukachevo. IIKRAINE TEL: (03131) 314-40

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Roland (U.K.) Ltd. Atlantic Close, SWANSEA SA7 9EL UNITED KINGDOM

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BAHRAIN

Moon Stores No.1231&1249 Rumaytha Building Road 3931, Manama 339, BAHRAIN TEL: 17 813 942

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TEL: (021)-44545370-5 **ISRAEL**

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MUSIC HOUSE CO. LTD. FREDDY FOR MUSIC P.O. Box 922846 Amman 11192, JORDAN

TEL: (06) 5692696 **KUWAIT**

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TEL: (01) 20-1441

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Chahine S.A.L. George Zeidan St., Chahine Bldg., Achrafieh, P.O.Box: 16-5857 Beirut, LEBANON

TALENTZ ENTERPRISES LLC MALATAN BUILDING NO. 4 SHOP NO. 3 AL NOOR STREET RUWI SULTANATE OF OMAN. TEL: 00968 24783443 FAX: 00968 24784554

OATAR

TEL: 4423-554

AL-EMADI TRADING & CONTRACTING CO. P.O. Box 62, Doha, QATAR

SAUDI ARABIA

Adawliah Universal Electronics APL

Behind Pizza Inn Prince Turkey Street Adawliah Building, PO BOX 2154, Al Khobar 31952, SAUDI ARABIA

TEL: (03) 8643601

SYRIA

Technical Light & Sound Center PO Box 13520 Bldg No.49 Khaled Abn Alwalid St. Damascus, SYRIA TEL: (011) 223-5384

U.A.E.

Adawliah Universal Electronics APL Omar bin alkhattab street, fish round about, nayef area, deira, Dubai, U.A.E. TEL: (04) 2340442

NORTH AMERICA

CANADA

Roland Canada Ltd. (Head Office)

5480 Parkwood Way Richmond B. C., V6V 2M4, CANADA

TEL: (604) 270 6626 Roland Canada Ltd. (Toronto Office) 170 Admiral Boulevard

Mississauga On L5T 2N6, CANADA TEL: (905) 362 9707 **MEXICO**

Casa Veerkamp, s.a. de c.v.

Av. Toluca No. 323, Col. Oliva

de los Padres 01780 Mexico D.F., MEXICO

TEL: (55) 5668-6699 Falv Music Sucursal Capu Blvd. Norte N.3213 Col. Nueva Aurora Cp.72070 Puebla, Puebla, MEXICO TEL: 01 (222) 2315567 o 97

FAX: 01 (222) 2266241 Gama Music S.A. de C.V. Madero Pte 810 Colonia Centro

C.P. 64000 Monterrey, Nuevo León, MEXICO TEL: 01 (81) 8374-1640 o 8372-4097 www.gamamusic.con **Holocausto Music**

Bolivar No.62 v 76, Col.Centro

Mexico D.F. CP 06080, MEXICO TEL: 52-55 5709 9046 Top Music S de RL de CV

Col Centro Del Cuauhtemo Mexico D.F. CP 06080, MEXICO TFI · 52-55-57099090

Del.Cuahutemoc

Mesones 13 Local B

II S A Roland Corporation U.S. 5100 S. Eastern Avenue Los Angeles, CA 90040-2938,

OCEANIA

AUSTRALIA/NEW ZEALAND

West. NSW 2099, AUSTRALIA For Australia TEL: (02) 9982 8266

For New Zealand TEL: (09) 3098 715

TEL: (323) 890 3700

Roland Corporation Australia Pty.,Ltd. 38 Campbell Avenue, Dee Why

As of Nov. 1, 2015