

## GUITAR AMPLIFIER

# DAC-15D DAC-15XD

## Owner's Manual

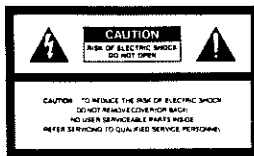


### ■ FEATURES

- The Roland DAC-15D and 15XD are 15W output guitar amplifiers with built-in digital effects. Their excellent ability allows powerful and perfect sounds.
- The DAC-15D is equipped with a high quality 20cm heavy duty speaker, and the DAC-15XD with four sets of 12cm heavy duty speakers, both allowing rich and dynamic sounds.
- The cabinet is made extremely strong and durable.
- Three volume control system expands the variations of sound creation.
- A three band active equalizer allows even more delicate sound creation.
- A digital-delay, a digital-chorus and a digital-flanger are built in.

### ■ IMPORTANT NOTES

- Operating this amplifier near neon or fluorescent lamp may cause noise interference. If so, change the position or the angle of the guitar.
- When setting up a guitar with the amplifier, connect the connection cord to the guitar first, then to the amplifier. When disconnecting, pull out the cord from the amplifier first then from the guitar.
- Turn the volume of this amplifier to zero before connecting or disconnecting the plug, to protect the speaker from excessive strain.
- Avoid giving a strong shock to this amplifier, and do not move it while it is operating.
- Do not use this amplifier in extreme humidity or heat, or where it may be affected by dust or direct sunlight.
- Clean the amplifier with mild detergent, and do not use solvents such as thinner.
- It is normal for this device to become hot while being operated.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of un-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK OR INJURY TO PERSONS.

## IMPORTANT SAFETY INSTRUCTIONS

**WARNING** When using electric products, basic precautions should always be followed, including the following:

1. Read all the instructions before using the product.
2. To reduce the risk of injury, close supervision is necessary when a product is used near children.
3. Do not use this product near water- for example, near a bathtub, washbowl, kitchen sink, in a wet basement, or near a swimming pool, or the like.
4. This product should be used only with a cart or stand that is recommended by the manufacturer.
5. This product, either alone or in combination with an amplifier and headphones or speakers, may be capable of producing sound levels that could cause permanent hearing loss. Do not operate for a long period of time at a high volume level or at level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should consult an audiologist.
6. The product should be located so that its location or position does not interfere with its proper ventilation.
7. The product should be located away from heat sources such as radiators, heat registers or other products that produce heat.
8. The product should avoid using in where it may be affected by dust.
9. The product should be connected to a power supply only of the type described in the operating instructions or as marked on the product.
10. The power-supply cord of the product should be unplugged from the outlet when left unused for a long time.
11. Do not tread on the power-supply cord.
12. Do not pull the cord but hold the plug when unplugging.
13. When setting up with any other instruments, the procedure should be followed in accordance with instruction manual.
14. Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
15. The product should be serviced by qualified service personnel when:
  - A: The power-supply cord or the plug has been damaged; or
  - B: Objects have fallen, or liquid has been spilled into the product; or
  - C: The product has been exposed to rain; or
  - D: The product does not appear to operate normally or exhibits a marked change in performance; or
  - E: The product has been dropped, or the enclosure damaged.
16. Do not attempt to service the product beyond that described in the user-maintenance instructions. All other servicing should be referred to qualified service personnel.

## SAVE THESE INSTRUCTIONS

### WARNING

THIS APPARATUS MUST BE EARTH GROUNDED.

The three conductors of the mains lead attached to this apparatus are identified with color as shown in the table below, together with the matching terminal on the UK type power plug. When connecting the mains lead to a plug, be sure to connect each conductor to the correct terminal, as indicated.

**"This instruction applies to the product for United Kingdom."**

MAINS LEADS		PLUG
Conductor	Color	Mark on the matching terminal
Live	Brown	Red or letter L
Neutral	Blue	Black or letter N
Grounding	Green-Yellow	Green, Green-Yellow, letter E or symbol

### Bescheinigung des Herstellers /Importeurs

Hiermit wird bescheinigt, daß der/die/das

**ROLAND GUITAR AMPLIFIER DAC-15D/15XD**

(Gerät, Typ, Bezeichnung)

in Übereinstimmung mit den Bestimmungen der

Amtsbl. Vfg 1046 / 1984

(Anzahl der Verfügen)

funk-entstört ist.

Der Deutschen Bundespost wurde das Inverkehrbringen dieses Gerätes angezeigt und die Berechtigung zur Überprüfung der Serie auf Einhaltung der Bestimmungen eingeräumt.

Roland Corporation Osaka / Japan

Name des Herstellers/Importeurs

### RADIO AND TELEVISION INTERFERENCE

**Warning:** This equipment has been verified to comply with the limits for a Class B computing device pursuant to Subpart J of Part 15 of FCC rules. Operation in non-certified equipment is likely to result in interference to radio and TV reception.

The equipment described in this manual generates and uses radio frequency energy. If it is not installed and used properly, that is, in strict accordance with our instructions, it may cause interference with radio and television reception.

This equipment has been tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules. These limits are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment on and off, the user is encouraged to try to correct the interference by the following measures:

- Disconnect other devices and their input/output cables one at a time. If the interference stops, it is caused by either the other device or its I/O cable.
- These devices usually require a Roland designated shielded I/O cable. For Roland devices you can obtain the proper shielded cable from your dealer. For non-Roland devices, contact the manufacturer or dealer for assistance.

If your equipment does cause interference to radio or television reception, you can try to correct the interference by using one or more of the following measures:

- Turn the TV or radio antenna until the interference stops.
- Move the equipment to one side of the other of the TV or radio.
- Move the equipment farther away from the TV or radio.
- Plug the equipment into an outlet that is on a different circuit than the TV or radio. (That is, make certain the equipment and the radio or television set are on circuits controlled by different circuit breakers or fuses.)
- Consider installing a rooftop television antenna with coaxial cable lead-in between the antenna and TV.

If necessary, you should consult your dealer or an experienced radio/television technician for additional suggestions. You may find helpful the following booklet prepared by the Federal Communications Commission:

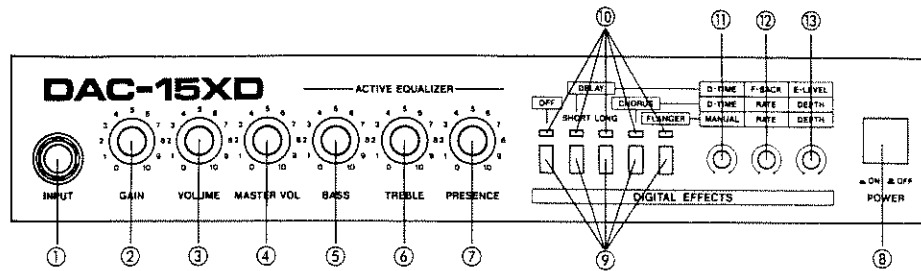
"How to Identify and Resolve Radio-TV Interference Problems"

This booklet is available from the U.S. Government Printing Office, Washington, D.C., 20402. Stock No. 504-300-0024-4.

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## ■ PANEL DESCRIPTION



### ① Input Jack

Connect a guitar to this jack.

### ② Gain

This adjusts the sensitivity of the input level.

### ③ Volume

This adjusts the input level.

### ④ Master Volume

This adjusts the overall volume.

### ⑤ Bass

This controls bass sound.

See "THREE VOLUME CONTROL SYSTEM".

### ⑥ Treble

This controls middle to treble sound.

### ⑦ Presence

This controls treble to super treble sound.

### ⑧ Power Switch

Push this switch to turn the amplifier on.

\* Before turning the amplifier on or off, be sure to set the Master Volume to zero.  
\* You may hear oscillation right after the amplifier is turned on, but there is no need to worry about it.

### ⑨ Effect Buttons

Push one of these buttons to turn a built-in effect on, and push OFF to turn it off.

\* Do not push more than one button at the same time. (More than one effect cannot be turned on at the same time.)

\* When all the buttons are off (no indicator except for OFF is lit), no effect is obtained.

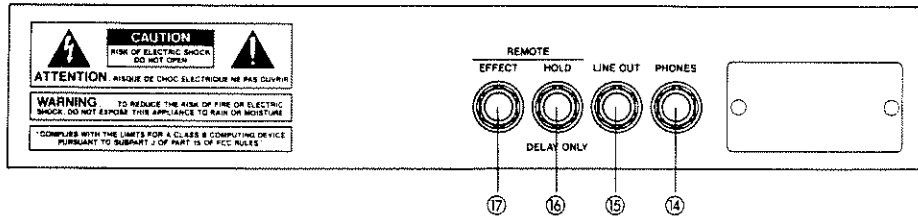
### ⑩ Effect Indicators

The indicator of the turned-on effect is lit to tell which effect is currently in use.

\* For about five seconds, all the five indicators are lit and no effect works.

### ⑪ ⑫ ⑬ Parameter Knobs

Refer to "ABOUT DIGITAL EFFECTS".



### ⑭ Headphones Jack

Connect stereo headphones to this jack.

### ⑮ Line Out Jack

Connect this jack to the other amplifier or tape recorder, etc.

### ⑯ Hold Remote Jack

Connect a pedal switch\*<sup>1</sup> or footswitch\*<sup>2</sup> to this jack, and the effect sound takes on the Hold effect by pushing the pedal.

\* The Hold effect cannot be obtained in any other mode but Delay mode.

### ⑰ Effect Remote Jack

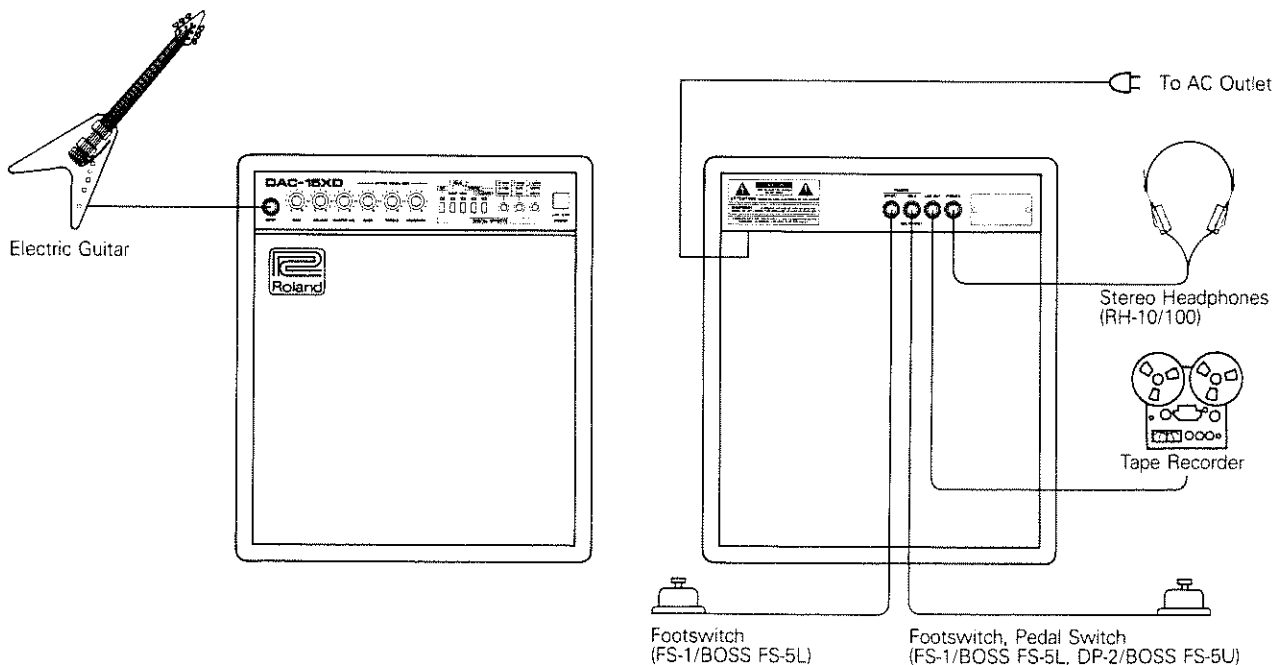
Connect a footswitch\*<sup>2</sup> to this jack, and the normal and effect mode can be alternately selected by pressing the pedal of the footswitch.

\* This function cannot be obtained unless you turn on an effect with the Effect Button on the front panel.

\*<sup>1</sup>: DP-2, BOSS FS-5U (both optional)

\*<sup>2</sup>: FS-1, BOSS FS-5L (both optional)

## ■ CONNECTION

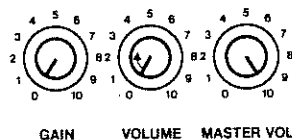


## ■ THREE VOLUME CONTROL SYSTEM

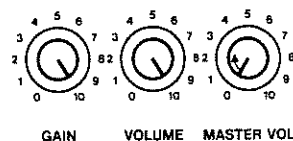
The DAC-15D and DAC-15XD feature three volume control system that allows wider variation of sound creation than two volume control system. Delicately nuanced sound and the depth of the distortion can be spontaneously altered.

Roughly speaking, two kinds of sounds can be created; Normal and Distortion sounds. Depending on which kind of sound you wish to make, the setting of those three volume controls differ as shown below.

### (1) Normal Sounds



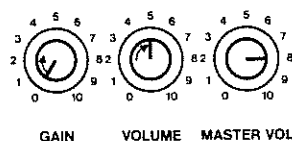
### (2) Distortion Sounds



#### ● Setting Samples of Normal Sounds

##### CLEAN SOUND

Adjust the volume with the Volume Knob within 0 to 5. If the volume is too low, raise the Gain Knob.

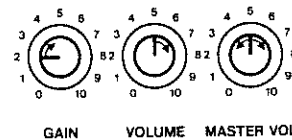


Use this when the volume is too low

Use this for volume adjustment

##### FAT SOUND

If you wish to make fat sound, raise the Volume and the Gain, and overdrive sound is created.



Clockwise rotation deepens the overdrive effect

Clockwise rotation makes fatter sound

#### ● Setting Samples of Distortion Sounds

Distortion sound will greatly differ depending on the depth of distortion. (Setting each knob of the equalizer to higher than 5 emphasizes the distortion effect.)

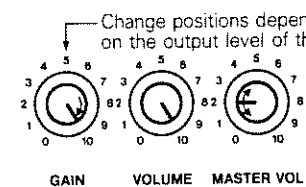
##### NATURAL AND SHARP DISTORTION



Use this for adjusting distortion

Use this for volume adjustment  
When set to lower than 5, hard sound is obtained

##### HARD AND HEAVY DISTORTION



Turn these fully clockwise for heavy metal sound

Use this for volume adjustment

## ■ ABOUT DIGITAL EFFECTS

The three built-in digital effects can be controlled with three Parameter Knobs. The Parameter Knobs work differently depending on the effect mode.

### Delay (Short/Long) Mode

#### ① Delay Time

This knob controls the delay time. At Delay Short, it continuously varies from 45 to 250ms, and at Delay Long from 200 to 1000ms.

#### ② Feedback

This knob controls the number of delay repeats. At its counterclockwise position, a single delay is obtained.

#### ③ Effect Level

This knob sets the volume of the delay sound. At its clockwise position, the volume of the effect sound is approximately equal to the direct sound. At its counterclockwise position, no delay sound is produced.

### Chorus Mode

#### ① Delay Time

This knob controls the delay time from 5.5 to 45ms continuously.

#### ② Rate

This knob sets the rate of the modulation.

#### ③ Depth

This knob determines the depth of the chorus effect. Clockwise rotation deepens the effect.

### Flanger Mode

#### ① Manual

This knob changes the delay time from 0.7 to 4.5ms continuously.

#### ② Rate

This knob sets the rate of the modulation.

#### ③ Depth

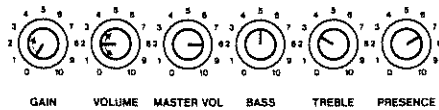
This sets the width of the modulation at the delay time set with ① Manual.

\* At its fully clockwise position, the Manual Knob ① does not work.

## ■ SETTING SAMPLES

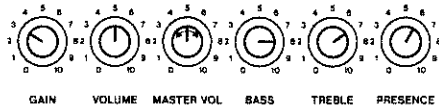
The created sound greatly varies depending on the type of the guitar and picking strength. Therefore, the following samples may not always be the case.

### ▶ TIGHT AND CLEAN SOUND

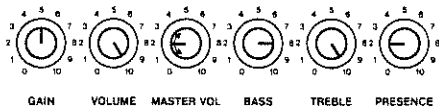


This is ideal for rhythm work.

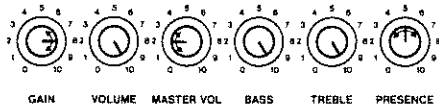
### ▶ FAT OVERDRIVE SOUND



### ▶ MELLOW DISTORTION SOUND

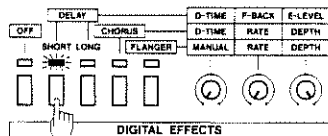


### ▶ POWERFUL AND DYNAMIC DISTORTION SOUND

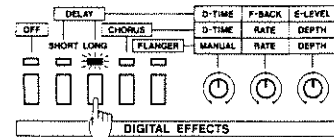


This is reproduction of heavy distortion sound of a large amplifier.

### ▶ SINGLE DELAY SOUND

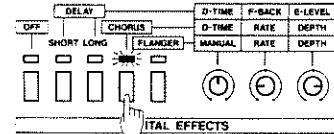


### ▶ LONG DELAY SOUND



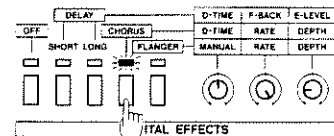
This is effective for solo performance with long tones.

### ▶ EXPANSIVE CHORUS SOUND

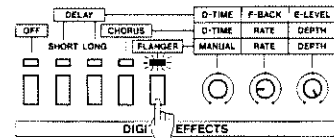


You may use this on a clean sound to make it fatter.

### ▶ VIBRATO SOUND

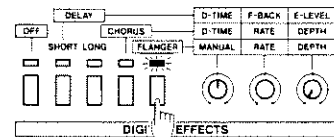


### ▶ SPEEDY FLANGING SOUND



This is effective for distortion sound.

### ▶ TYPICAL FLANGING SOUND



This is effective for distortion sound.

## ■ SPECIFICATIONS

**Output:** 15W

**Speaker:** 20cm × 1 [DAC-15D]  
12cm × 4 [DAC-15XD]

**Input Level/Input Impedance:** -73dBm/480kΩ

**Line Output Level/Output Impedance:** 0dBm/1kΩ

**Digital System:** 12 bit PCM

**Delay Time:** 45 to 250ms (Delay Short)  
200 to 1000ms (Delay Long)  
5.5 to 45ms (Chorus)  
0.7 to 4.5ms (Flanger)

**Controls:** Gain  
Volume  
Master Volume  
Bass  
Treble  
Presence  
Parameter × 3

**Switches:** Power  
Effect × 5

**Jacks:** Input  
Headphones  
Line Out  
Hold Remote  
Effect Remote

**Indicators:** Effect × 5

**Power:** 117, 220 or 240V (AC50/60Hz)

**Consumption:** 35W

**Dimensions:** 358(W) × 208(D) × 358(H)mm/  
14-1/8" × 8-3/16" × 14-1/8" [DAC-15D]  
358(W) × 208(D) × 418(H)mm/  
14-1/8" × 8-3/16" × 16-7/16" [DAC-15XD]

**Weight:** 7kg/15lb 7 oz [DAC-15D]  
8kg/17lb 11 oz [DAC-15XD]

**OPTIONS:** Stereo Headphones RH-10/100  
Footswitch FS-1, BOSS FS-5L  
Pedal Switch DP-2, BOSS FS-5U

\* Specifications are subject to change without notice.

 Roland®

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