

DC-13



DUAL BUS CONVERTER OWNER'S MANUAL

DESCRIPTION

Congratulations on your purchase of the DC-13 Dual Bus Converter.

The DC-13 combines the technology found in the Roland BC-13 bus converter with technology found in the Roland US-20 unit selector.

Like a BC-13 Bus Converter, the DC-13 can convert the vintage 24-pin style signals into modern, 13-pin control signals, enabling the vintage guitar synth enthusiast access to the latest in guitar technology.

Like a US-20 Unit Selector, the DC-13 can be used to select between two guitar synthesizers, either individually or together.

In addition, the DC-13 has special separate outputs for line-level guitar signal and hex fuzz.

Your DC-13 has been hand-built and hand-wired using quality components for reliable operation and is backed by a five-year warranty.

Please read this owner's manual carefully before using the DC-13.

IMPORTANT NOTES

- The DC-13 *does not* pass the output from the guitar's standard pickups to the 13-pin synthesizer(s). To access the output from the guitar's pickups, use either the 1/4"

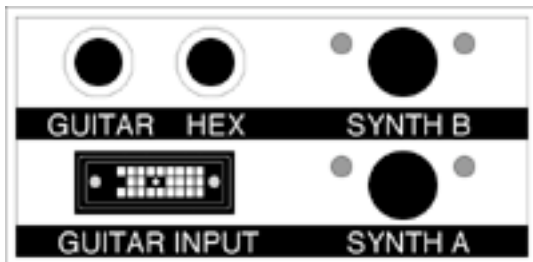
standard output jack on the guitar, or use the direct Guitar Line Output on the DC-13.

- When connecting a guitar and synthesizer(s) to the DC-13, be sure that power to the synthesizer(s) is switched off.
- The 13-pin connectors used with the DC-13 are locking style, and therefore cables cannot be disconnected unless the locking pin is released.
- Due to the unique design of the VG-88, a low level hum may be heard when the VG-88 is used as Synth B. If this occurs, plug the VG-88 into the Synth A jack.

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PANEL DESCRIPTIONS



1. **Guitar Input:** Input for 24-pin style G-Series guitar cable.
2. **Synth A Connector:** The synthesizer connected to this connector can be played when [A] has been selected with the [A/B] pedal switch on the top panel. Please note that Synth A is also used as the power source for the DC-13. Without a device connected to the Synth A connector, the DC-13 will not operate.
3. **Synth B Connector:** The synthesizer connected to this connector can be played when [B] has been selected with the [A/B] pedal switch on the top panel.
4. **[A/B] Pedal Switch:** This is the pedal switch that allows you to select which device is to be played, either Synth A or Synth B. If there is nothing connected to the Synth B connector, the DC-13 will still function as a BC-13 style 24 to 13 pin bus converter.
5. **[BOTH] Pedal Switch:** When switched ON, this pedal allows you to play both of the synthesizers connected to the DC-13.
6. **Guitar Line Output:** This connector outputs the line-level guitar signal generated by the pickups inside the guitar. You can change the quality of this sound by using the pickup selector switch or the guitar's tone control. This output *does not* respond to changes in volume using the guitar's master volume knob. If

you want to vary the volume of the guitar using the volume control on the guitar, use the direct guitar output on the body of the guitar itself. This is a standard 1/4" jack usually found next to the 24-pin connector on a G-series guitar.

7. Hex Fuzz: This connector outputs the line-level hex fuzz distortion guitar signal

generated by the internal hex fuzz circuitry inside a Roland G-202, G-303, G-505, or G-808 guitar. Because this is a line level signal, and because this is a distorted signal, the output level is very high. Like the Guitar Line Output, the Hex Fuzz output *does not* respond to changes in volume using the guitar's master volume knob.

SWITCH FUNCTIONS

The DC-13 changes some the functions of vintage G-Series controllers to match new, 13-pin functions.

- **Master Volume** knob is now for Guitar Volume only. This knob changes the volume of the Guitar when a cable is hooked to the standard 1/4" output jack on the guitar.
- **Guitar Tone** Knob controls the tone of the guitar's normal sound.
- **Filter Knob**, or CV#1, becomes the volume control for Synth A.
- **Resonance Knob**, or CV#2, becomes the volume control for Synth B.
- **Mode Switch** becomes SW1 and SW2.

When the mode switch is switched down, the receiving synth receives a "SWITCH 1" command. When the mode switch is switch up, the receiving synth receives a "SWITCH 2" command. This function works best when the switch is rapidly turned on and off, moving away from and quickly returning to the center position (off).

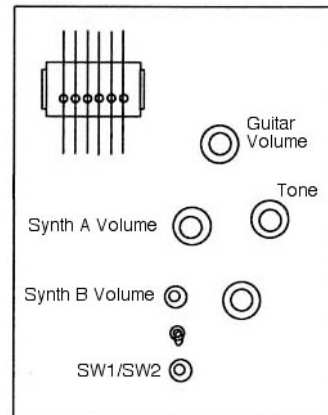
The position for Mode I on a vintage G-Series controller, is now "SWITCH 1."

The position for Mode III on a vintage G-Series controller, is now "SWITCH 2."

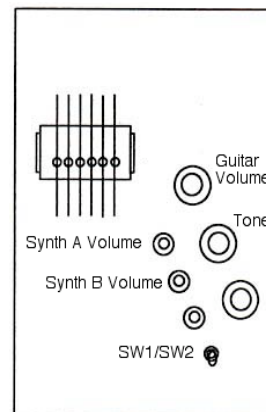
The center position, or Mode II on a vintage G-Series controller, is now off.

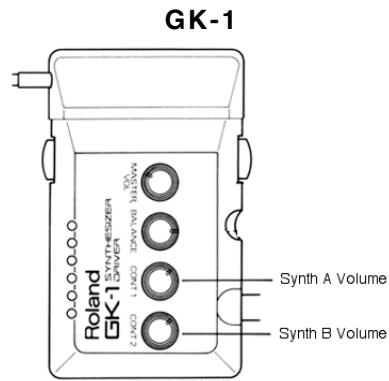
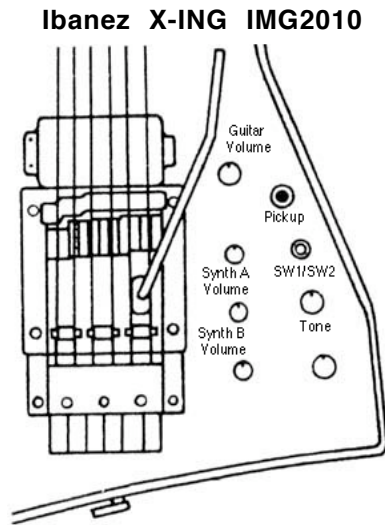
[When using a G-Series Guitar]

G-202, 303, 505, 808



G-707





SYNTH SELECTION

Depress the [A/B] pedal, and the unit to be played will change. You can tell whether Synth A or B is currently selected by viewing the LED.

Green: The synth connected to Synth B is selected.

Red: The synth connected to Synth A is selected.

SYNTH SELECTION WITH THE [BOTH] PEDAL SWITCH

Depress the [Both] pedal, and the LED will light in yellow and both synths will be heard. However, information about SW1 and SW2 (Mode Switch) will be sent only to the device selected with the [A/B] pedal switch.

Depress the pedal again, and the LED will go out and only the device selected with the [A/B] pedal switch will be heard.

SPECIFICATIONS

DC-13 Dual Bus Converter:

- **Connectors:** One 24-pin input connector, two 13-pin output connectors, 2 1/4" standard phone jacks for line-level guitar and hex fuzz.
- **Dimensions:** 6(W) x 8(D) x 2 3/4(H) inches
- **Weight:** 1 lbs 4 oz

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