

Read this first!

Carlin Ring Modulator can be used with dual in- and/or outputs.

Use Carlin Ring Modulator with Mascot **9V power supply**, which can be purchased with the pedal. If you are using a power supply of a different brand, **make sure its voltage and its polarity is correct** (specified below) and that it is intended for audio.



**User's
manual**

moody[®]



**ring
modulator**

Power supply: 6 to 12 Volts DC.
Power connector properties: 2,1 mm
pin diameter, negative terminal at center
of plug.
Current draw at 9V: 4 mA
Maximum power supply voltage: 12 V
Minimum power supply voltage: 6 V
Weight: 0.36 kg
Dimensions (LxWxD): 125x100x55 mm

Manufacturer: Moody Sounds
Manufacturer's address:
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Gröngatan 4A
38630 Färjestaden
Sweden
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Image 1. Control knobs, switches and jacks are assigned numbers.

Thank you for using Carlin Ring Modulator pedal! In order to describe the function of the Carlin Ring Modulator, we will refer to image 1. The control knobs, switches and jacks, have been assigned numbers in the image. The list to the right of the image gives a brief introduction of what the knobs do and what function they have.

Carlin Ring Modulator is powered with 9 Volt DC (direct current). Connect Mascot power supply or similar to the pedal's current jack, denoted by 1 in image 1. It is important that the polarity of the power supply is correct: its negative terminal shall be on the inside of the plug, that is, the part of the plug that encloses the pin on the current jack.

MONO MODE - One Input, One Output

Connect the cable from the instrument to *input jack A*, "IN A", on the pedal. IN A is the jack to the low right and it is denoted by 2 in the image.

Connect the cable from the amplifier to *output jack A*, "OUT A". OUT A is the jack to the low left and it is denoted by 4 in the image.

The Footswitch, the "**Bypass switch**" which is denoted by 6 in image 1, decides whether the signal is routed to the circuit of the pedal or passed it. We call these two main modes of the pedal for **Effects mode** and **Bypass** respectively. When channel A is used, Carlin Ring Modulator has **True Bypass**, which means that the pedal does not affect the signal at all when in Bypass.

The pedal is also furnished with an *Effect on / off indicator*: A light emitting diode, “LED”, denoted by 10 in image 1, is lit in Effects mode and it is not lit in Bypass.

When used in mono mode the signal is routed to both IN A and IN B inside the pedal and the signal modulates itself. The effect is adjusted with two control knobs: VOL A and MIX A, in the image denoted 7 and 8 respectively.

The MIX A knob adjusts the balance between unaffected / buffered sound and effects sound. When MIX A is turned all the way to the left the signal passes a buffer and is then routed to the VOL knob - a “clean” signal is present at OUT A. The effects sound gradually becomes more prominent when MIX A is turned to the right.

The VOL A knob adjusts the degree of attenuation: when turned all the way to the right it does not attenuate the signal at all. When turned all the way to the left it attenuates the signal 100% and the pedal is totally silent. VOL A affects the volume only and has no other effect on the tone.

STEREO MODE - One Input, Two Outputs

Carlin Ring Modulator has two buffered outputs, OUT A and OUT B. You may connect a second amplifier to OUT B, denoted by 5 in image 1, to achieve a stereo effect. The signal at OUT B is adjusted with one control knob, MIX B, denoted by 10 in image 1, in an similar fashion as the mix knob adjusting the signal in channel A. The channels are independent of each other in the sense that the knobs adjusting channel A does not affect the signal through channel B and vice versa.

If a plug is inserted into OUT B, both OUT A and OUT B are active in effects mode. However, OUT B is silent in bypass mode (this is a consequence of having true bypass at A).

STEREO MODE - Two Inputs, Two Outputs

You may use the pedal with two different sound sources by connecting them to channel A and B respectively. The signals will interact with each other and the “combined” signal will be routed to OUT A and OUT B. As just mentioned you may adjust the control knobs so that the signals are sounding the same or differently.

The Carlin Ring Modulator was designed by Nils Olof Carlin in 1970. The Reissue/clone was worked out by Albin Roslund in cooperation with Nils Olof. The main part of the audio circuits are identical but we decided to do some changes when the reissue/clone was designed. The changes are:

- * the clone has true bypass - the original has a buffered bypass.
- * the clone is powered with a 9V power supply - the original uses a 9V battery.
- * the clone has a LED on/off indicator - the original has it not.
- * the clone has three control knobs - the original has one (“vol A”)
- * the clone has buffered outputs - the original has shared outputs.

The pedal is handcrafted in Moody's workshop. Each pedal is assigned a serial number which is engraved on the inside of the lid. If you have any questions about your pedal, please take of the lid and refer to this number when you contact.

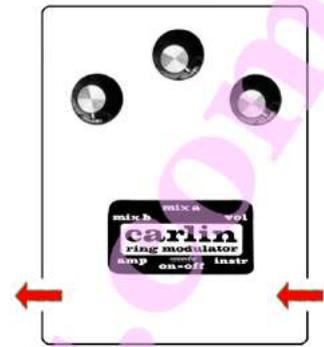
SUGGESTED SETTINGS

1. ROCK N ROLL SOUND

Guitar to IN A, amp to OUT A

Mix A max - fine ring effect

Vol A max - light volume boost



2. STRONG RINGER

Guitar to IN A, keyboard to IN B, amp to OUT A

Mix A max - fine ring effect

Vol A max - light volume boost



3. STEREO CLEAN RINGER

Guitar to IN A, amp 1 to OUT A, amp 2 to OUT B

Mix A max - fine ring effect in amp 1

Vol A max - light volume boost in amp 1

Mix B min - clean sound in amp 2



4. EXPERIMENTAL RINGER

Guitar to IN A, amp to OUT A, patch-cable

between IN B and OUT B

Mix A max - fine ring effect

Vol A max - light volume boost

Mix B adjusted - experimental sound!

