

# Combinator 2 user manual

The Carl Martin Combinator 2 was designed and developed in response to many requests from guitar players who use lots of effects pedals, but are frustrated by having to press several footswitches in order to turn multiple pedals on and off. The Combinator 2 is a non-midi programmable effects switching system that handles up to eight pedals. Each pedal is connected to one of eight individual effects loops (loop 7 with stereo return, and loop 8 with stereo send/return), and then assigned to one or more of 18 groups. Pushing the program switch for a group simultaneously engages all of the pedals assigned to it. So if, say, you have a fuzz, a wah, and a chorus assigned to program switch 1, pressing that switch will turn them all on or off. The Combinator 2 is a three-bank device each with six programs. The Combinator 2 also features a master mute switch, a tuner output jack, and three channel external switching using loop programming switch one, two and three, connected to three individual jack plugs, the loops can be used simultaneously i.e. if loop one is used for external switching, and a pedal is in loop one, that loop is activated when the external switching is used. Programming is a snap. Just select bank press one of the program buttons, press the soft buttons corresponding to the pedals or/and external switches you want to include, press store, and you're done. The Combinator 2 also features a power supply, providing eight individual 9-volt taps, one for each pedal.

- 1) Insert the pedals in the 8 loops (the order is fixed)
- 2) Select bank, press program button
- 3) Press the soft buttons corresponding to the pedals and/ or external switch you want to include
- 4) Press store, and you're done

### Please Notice:

- 1) The Combinator is primarily designed for Carl Martin pedals, but can also be used with other pedals with low impendant output (BOSS, - Ibanez, - DOD i.e.) some older effects and wah pedals are high impendant output, these requires a low impendant converter, or a low impendant pedal in series.
- 2) The 9-Volt taps are hot on the ring (Boss, - Ibanez standard)  
Always press one of the six preset switches & the bank switch before connecting it to the amp, in order to get the unit's memory circuitry started up correct. All the loops may be activated after power has been taken, and the LED's may not light up correct until after the first switch activation.
- 3) If one or more of loops 1,2 & 3 is used for external switching, and a pedal is in either one of the loops, that loop is activated when the external switching is engaged, say you use loop 1 to shift channel on you're amp, and you know you will use a specific pedal every time you're on that

### Technical Specifications:

<b>Power:</b> .....	100 or 115 or 230 VAC 50-60 Hz.
<b>Power Output:</b> .....	8 x 9V DC 300mA.
<b>Power Consumption:</b> .....	9 Watts.
<b>S/N ratio:</b> .....	70.5 dB.
<b>Input impedance:</b> .....	220K Ohm.
<b>Output impedance:</b> .....	75 Ohm.
<b>Send Impedance:</b> .....	75 Ohm.
<b>Return Impedance:</b> .....	8K5 Ohm.
<b>Dimension:</b> .....	17,5(D) 51,5(W) 5,5(H) cm.
<b>Weight:</b> .....	2,8 Kg.

### Warning:

To reduce the risk of fire or electric shock, do not expose the Carl Martin Guitar effect to rain or moisture, do not remove screws or covers: Refer servicing to qualified service personnel.

### Warranty:

Carl Martin Research warrants the material, workmanship and prober operation for a period of one year. Carl Martin will replace defective parts and make necessary repairs under this warranty to correct any such defect. This warranty extends only to original purchaser of this product, and excludes damage resulting from misuse, neglect, or unauthorised service.