

CARL MARTIN

MANUAL OCTA-SWITCH



Ok, so you have eight effects pedals which you use regularly. You use various combinations of these pedals in various songs, but you are not good at tap dancing...or you are just clumsy and have stepped on the ultra tricked out-metalized-distortion pedal for the lead in your one ABBA cover. You have seen the digital effects controllers they use on the big stages, and have secretly yearned for one, even though you may never make the big stage? Enter Thomas Guldmann's Octa-switch. Your eight effects plug into the eight effects-loops on the back of this unit (all true-bypass, impedance free gold relays so you can run any of your pedals, new and old without problem), and then by turning on or off the numbered switches in each of eight DIP Bank switches, you determine which effects you wish to use simultaneously in each Bank. There is a blue LED for every effects loop used and for each Bank (so once you are programmed, when you step on Bank 6 you will see the lights of all the effects you have assigned to Bank 6 and the Bank 6 LED). Once you have each Bank programmed, we recommend placing a piece of scotch or electrical tape over each DIP (...just to protect the switch from damage or floods....like beer). There is a buffered (or not....switchable) Mono input and a stereo Output, and the unit is powered by dual 9v batteries, or by a regulated power supply.



Then by turning on or off the numbered switches in each of eight DIP Bank switches, you determine which effects you wish to use simultaneously in each Bank. There is a blue LED for every effects loop used and for each Bank (so once you are programmed, when you step on Bank 6 you will see the lights of all the effects you have assigned to Bank 6 and the Bank 6 LED).

Please note, the DIP switches are slide type, NOT push down. They are easily operated with a small screwdriver, a pen, or a very very small finger.

There is a buffered (or not....switchable) Mono input

On large stages when running long connected cables, there is a definite drop in the high end of your guitar sound (more or less depending on the input impedance of your amplifier). The solution according to Thomas was once again 'simple'. He built in a buffer circuit at the input, so the user can choose between 100% true bypass, or buffered bypass to 'beef' up the signal.



Loop 8 offer a mono send and a stereo return on a stereo jack plug, with left at the jack tip and right at the jack ring.

The Octaswitch has stereo outputs, and a stereo return on Loop 8 (this is a stereo jack with tip-left and ring-right). Since stereo effects like choruses are placed at the end of your effects-chain, we would typically insert them in Loop 8.



The Octa-Switch has nine switches, the eight are presets and the ninth is a true bypass switch, which bypass the unit for clean sound. Please note if the buffer is engaged it will also be engaged in the bypass mode, which we recommend as on large stages when running long connected cables, there is a definite drop in the high end of your guitar sound, the buffer prevent that.

The Octa-Switch has two external switching jacks for changing channel on your amp, or other operational features. Operation is very simple as on the two corresponding DIP switches you simply engage which of the presets 1-8 you wish the amp to change channel or turn on reverb, - boost or other operational features. So say you wish to shift to a high gain channel on preset 6 via ext. switch 1 you simply engage DIP switch 6, so now every time you enter preset 6, the amp go to the high gain channel. Please note that the different amps switching systems varies, so we recommend to us a stereo jack, and then try to solder either the hot on ring or tip, till the wanted result are achieved. The External switches is Latching, we suggest you check if your amplifier can work like this.



Example on normal single amp operation

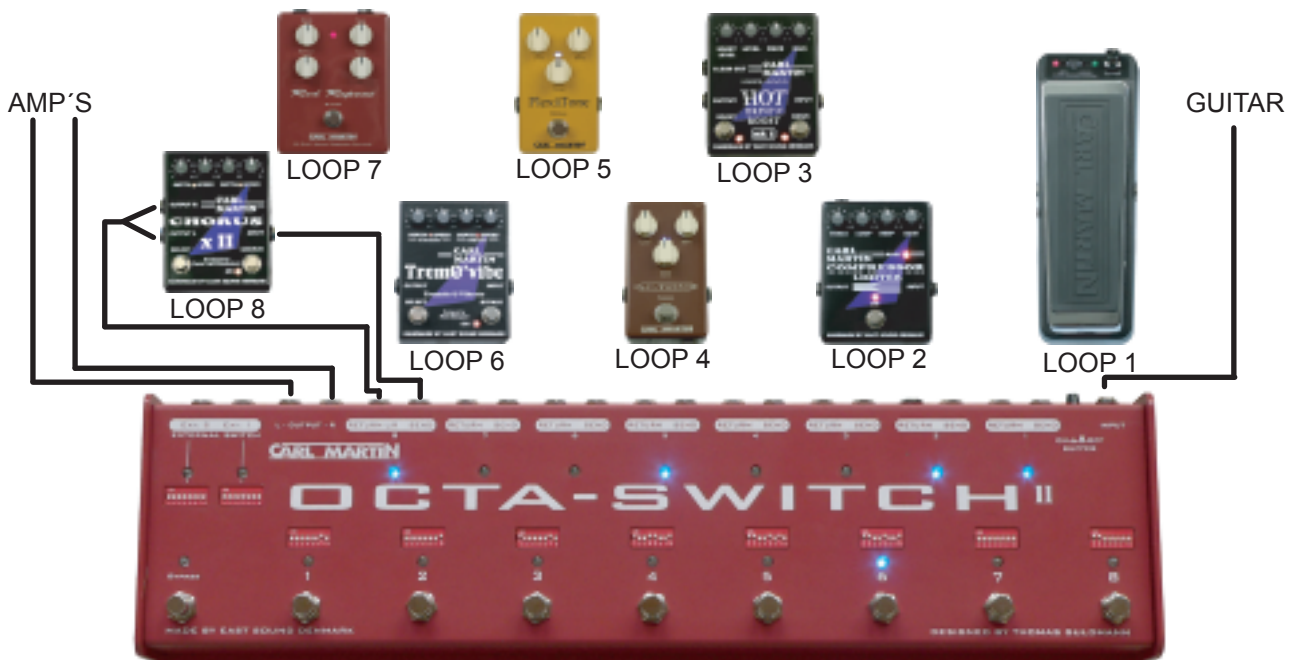


Example of mono dual amp operation



Use a Y-cable in left output with 2 mono and 1 stereo jack, connect Tip & Ring to (+)

Example of stereo dual amp operation



Use a Y-cable from the stereo unit to loop 8 return, left on ring and right on tip of the stereo jack.

Please notice that there is only full stereo operation with signal on the right output when there is a stereo pedal in loop 8, and loop 8 is engaged i.e. a stereo chorus, to maintain output on both L/R also without the chorus effect, you have to bypass the effect on the chorus pedal.

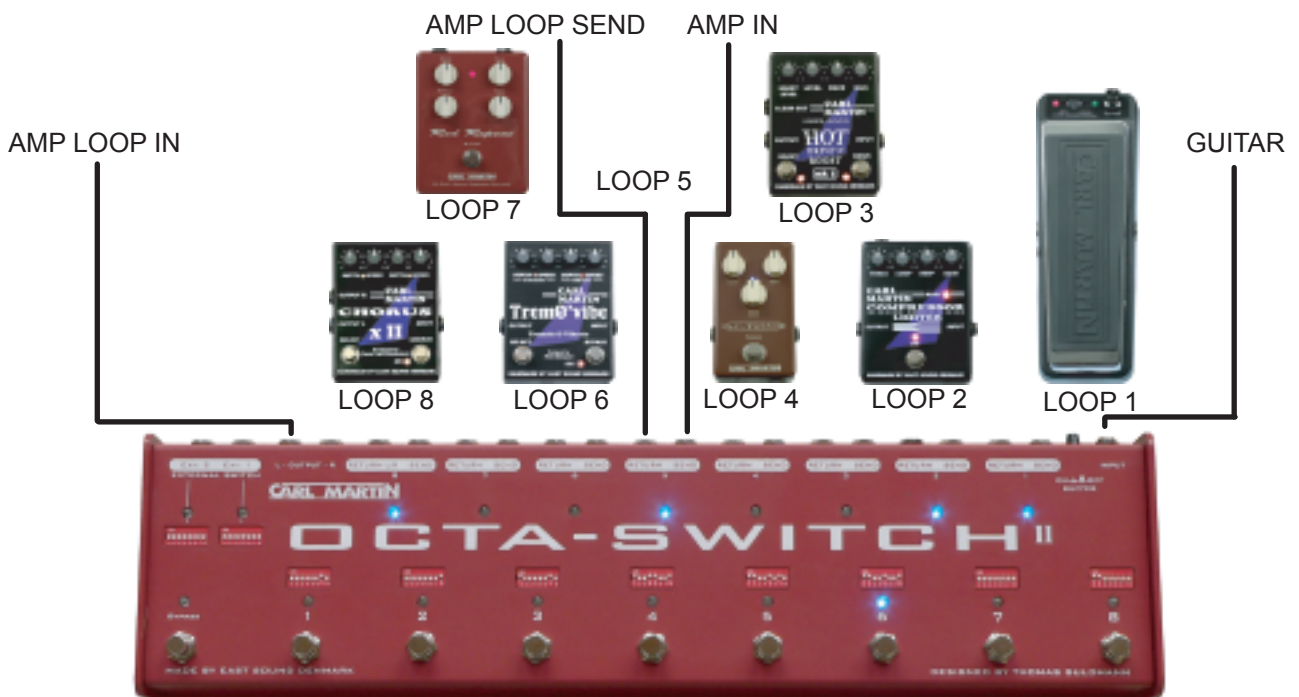
When there is no stereo pedal engaged there is no signal at the right output.

Example on mono operation with mute and tuner out



Connect a tuner to i.e. loop 1 send, and nothing in the loop return, select i.e. program 8 with only loop 1 engaged, this way you mute the system while getting signal to your tuner, without the signal passing through the tuner.

Example on operation with some pedals going front in the amp, and some in the amp's own loop



As shown on the illustration in this example we do have 4 pedals going to the amp's input, and three pedals in the amp's own loop.

So in the example we use LOOP 5 as the split loop (any can be used) loop 5 send goes to the amp's input, so loop 1-2-3-4 are all front in. The amp's own loop send goes the loop 5 return, and the Octa-Switch main out (left) goes to the amp's loop return, so loop 6-7-8 all will be inserted in the amp's loop after the pre-amp. IMPORTANT LOOP 5 SHALL ALWAYS BE ACTIVATED.

Specifications

Input.....	500K Ohm (buffer)
Output.....	560 Ohm (buffer)
S/N Ratio.....	70 dB
Loops.....	8 pcs. true bypass relay
Presents.....	8 pcs via DIP switch
External switch.....	2 pcs (latching)
Dimensions	510 (W) x 135 (D) x 55 (H) mm 20,06" (W) x 5,31" (D) x 2.16" (H)
Weight.....	2,3Kg/ 5,14lbs

Power Requirements

Battery: The Octa-Switch MKII requires two 9V batteries. To replace the batteries, carefully remove the battery lids on the back, install the new batteries and then re-install the lids.
Power consumption: max. 380 mA
Power supply: 9 V DC (regulated), 500 mA minimum, 2.1 mm female plug, center negative (-)
ATTENTION: Please Use DC Power Supply Only!
Failure to do so may damage the unit and void the warranty.

Warning: to Reduce the risk of fire or shock, do not expose the Carl Martin Octa-Switch to rain or moisture and do not install it near any heat sources. Protect all wires and plugs from damage, and unplug the unit when not in use. Please do not attempt to remove screws or covers; refer all servicing to a qualified service technician.

Warranty: Carl Martin Research warrants the manufacturing, material and proper operation for a period of one year from date of purchase. Carl Martin will replace defective parts, make necessary repairs or replace the unit at the discretion of our technicians. The warranty applies only to the original purchaser of this product, and excludes any damage or faulty operation resulting from misuse, neglect or unauthorized service.

East Sound Research Raadmandsvej 24 8500 Grenaa Denmark info@carlmartin.com