

# VOLCANO

MIDI OUTPUT INTERFACE  
FOR THE KORG VOLCA SERIES



MADE IN BRAZIL BY



[www.amazingmachines.com.br](http://www.amazingmachines.com.br)

# INTRODUCTION

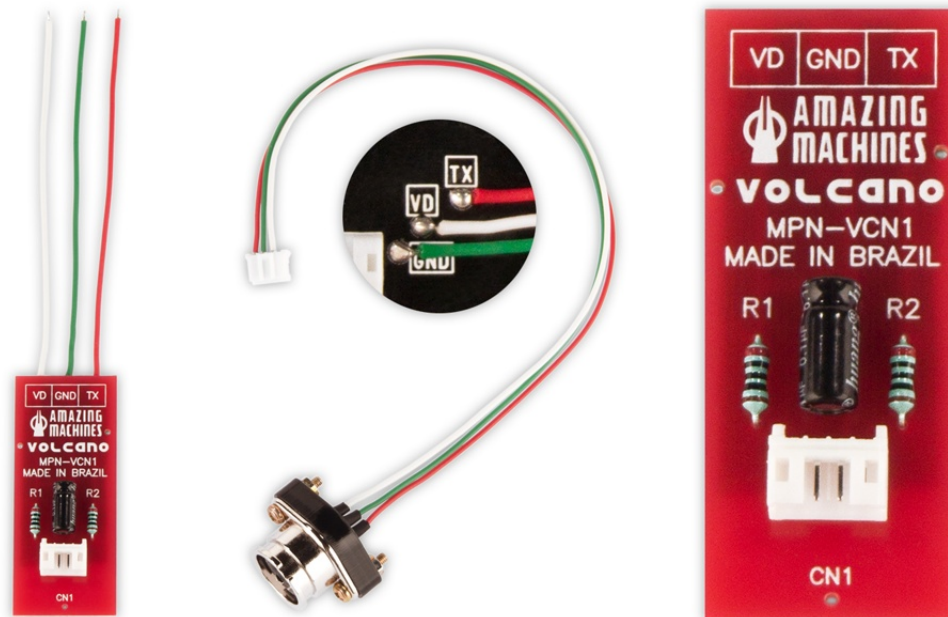
Thank you, and congratulations on your choice of the Amazing Machines Volcano - MIDI Output Interface for the KORG Volca Series.

Please note that any modification to any KORG Volca will immediately void its warranty.

Amazing Machines will not accept responsibility for any damages, personal loss or injury that may result from the installation of the Volcano Interface.

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The following pages of this document provide a step by step installation guide for the Volcano Interface, as well as detailed functionality information.



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# CHAPTER 1 - VOLCANO QUICK INSTALLATION GUIDE - VOLCA KEYS

**WARNING:** Any modification to any KORG Volca will immediately void its warranty.

If you are not sure what you are doing, please ask a technician to do it for you.

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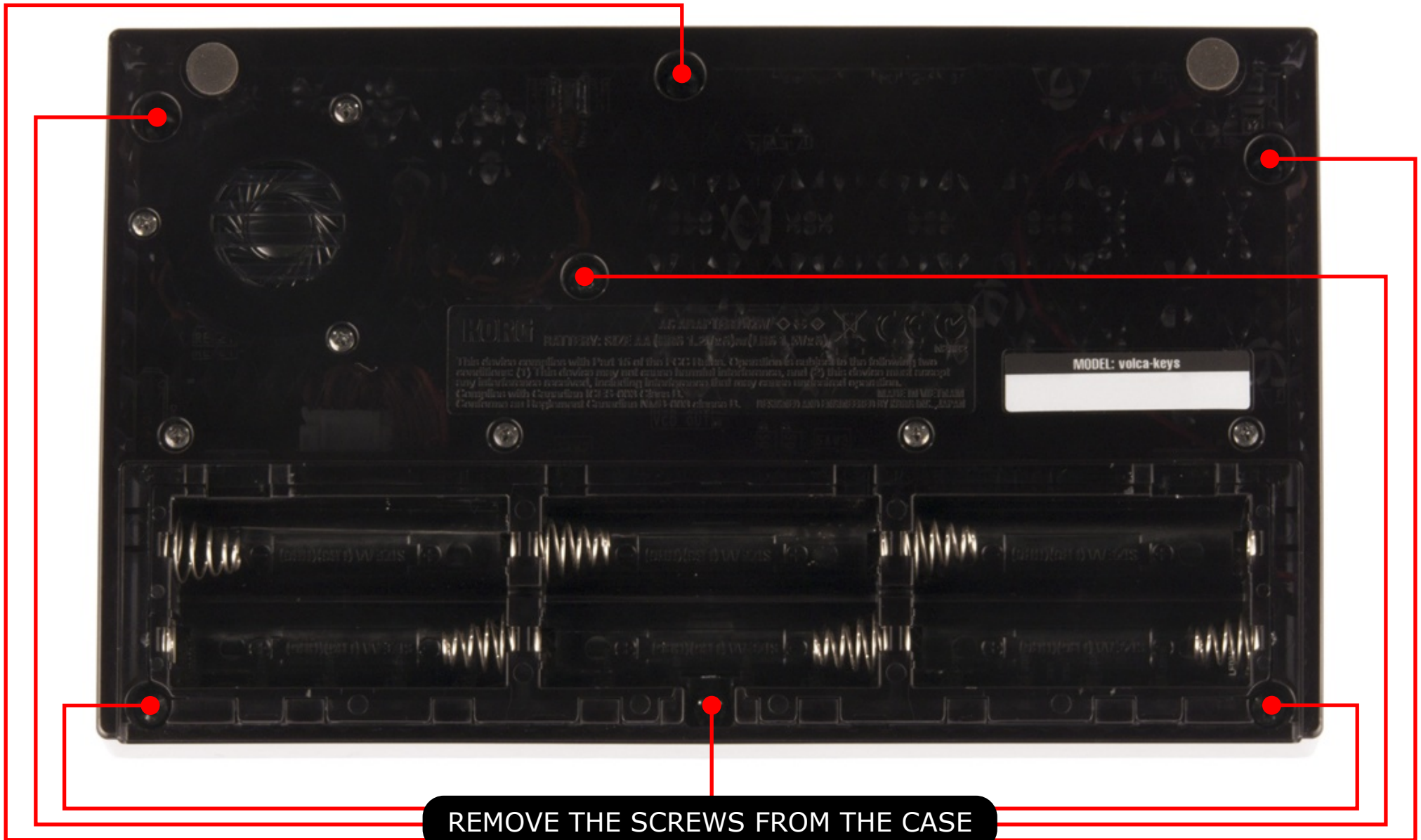
We strongly advise you to read every single page of this chapter before proceeding.

For instructions on how to perform a permanent installation of the Volcano Interface by drilling holes for the MIDI Output connector in the case of your KORG Volca, please refer to the "Volcano Permanent Installation Guide", available at [www.amazingmachines.com.br](http://www.amazingmachines.com.br)

## Bill of Tools

- Medium size Phillips screwdriver
  - 60W Soldering iron
  - Solder wire
- Medium size flat tip screwdriver
  - Flat long nose pliers

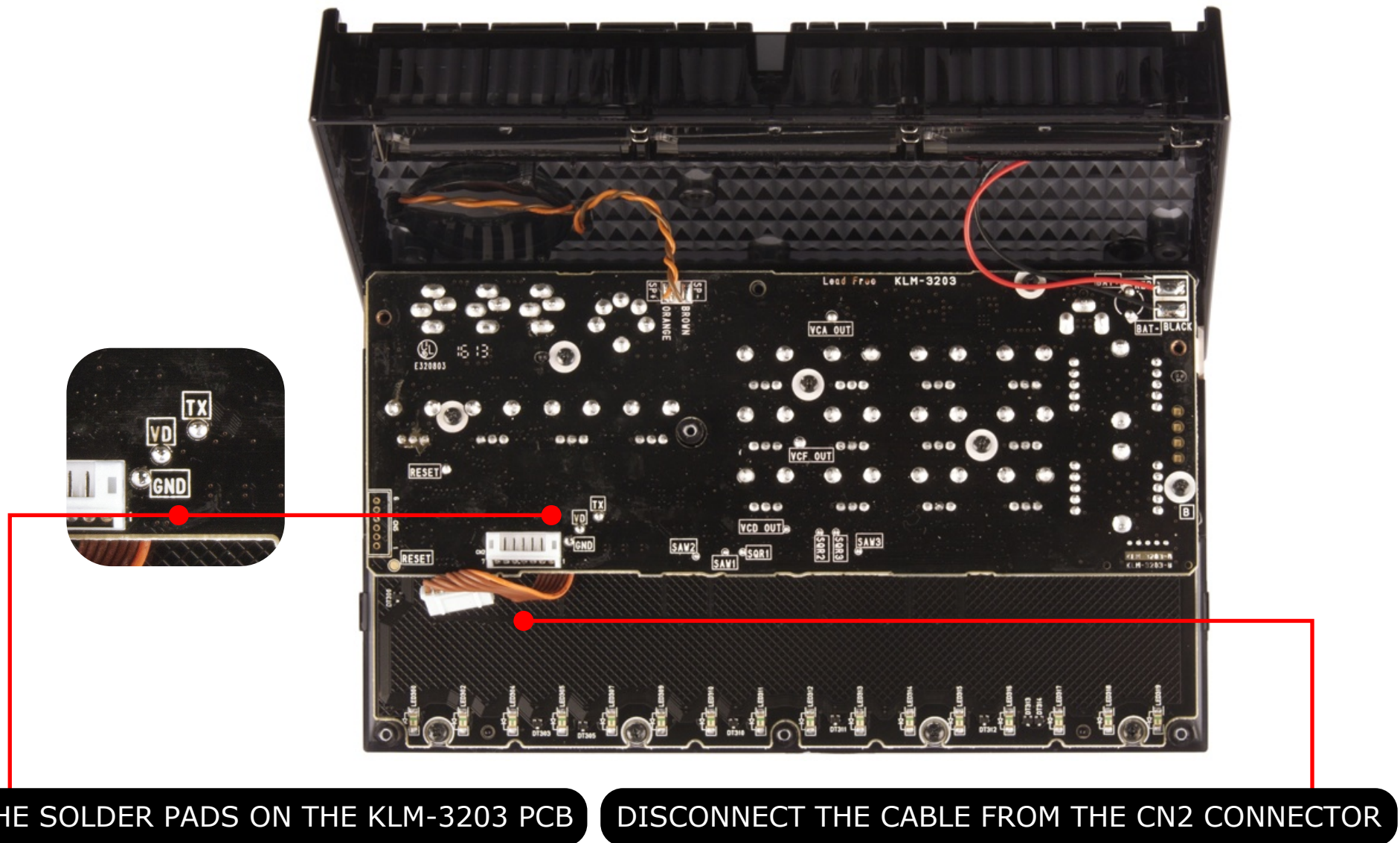
# VOLCANO QUICK INSTALLATION - VOLCA KEYS - STEP 1



1.1 - Using a Phillips Screwdriver, remove the screws from the case

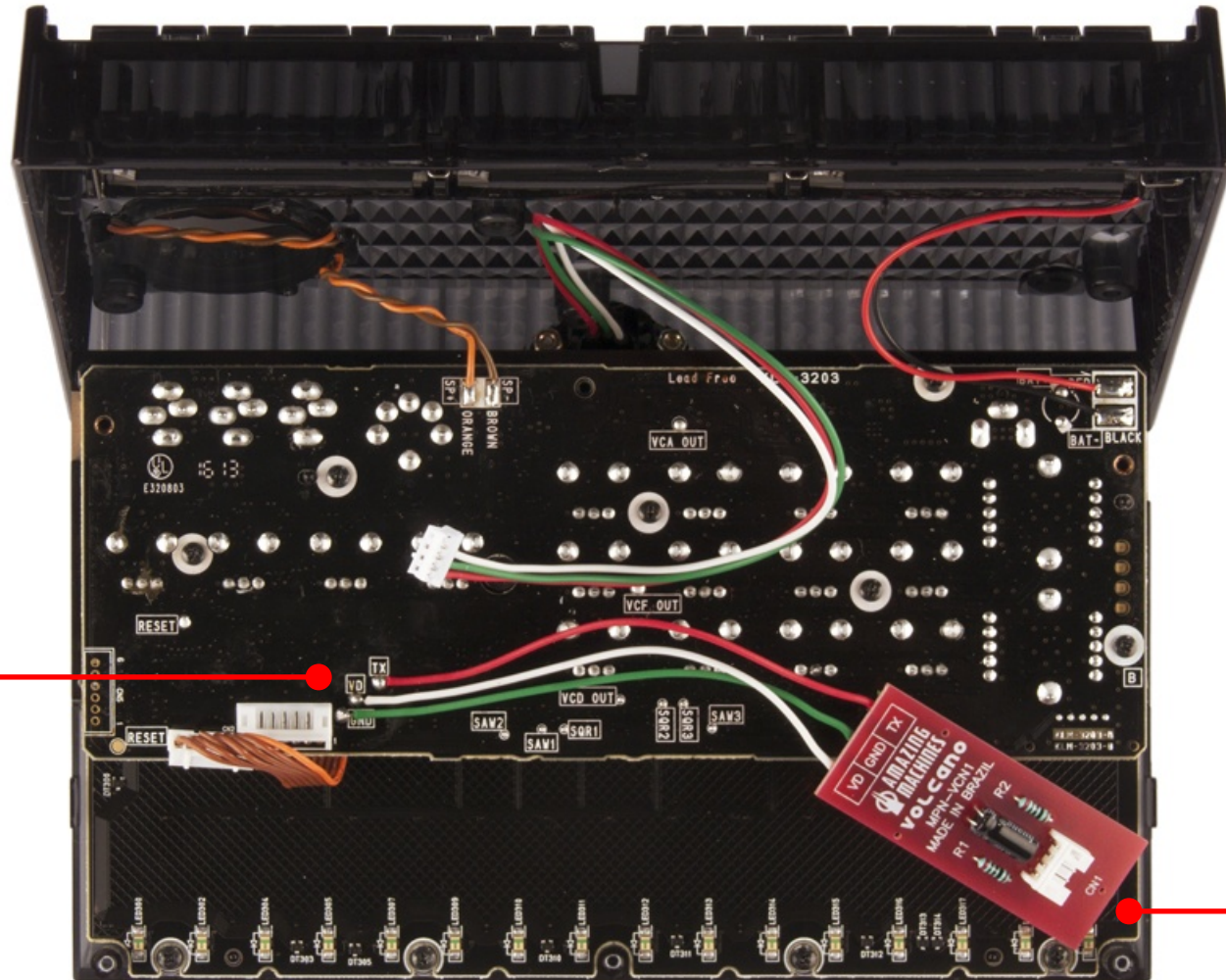
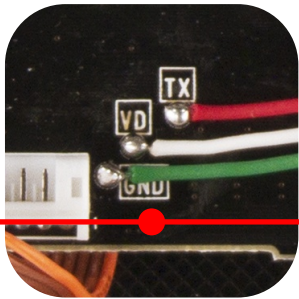


## VOLCANO QUICK INSTALLATION - VOLCA KEYS - STEP 2



- 2.1 Disconnect the cable from the CN2 Connector on the KLM-3203 PCB
- 2.2 - Locate the 3 solder pads on the KLM-3203 PCB
- 2.3 - Add a touch of solder to the pads, **be careful not to overheat the circuit board as it may cause irreparable damage to your KORG Volca, do it as fast and precisely as you can**

## VOLCANO QUICK INSTALLATION - VOLCA KEYS - STEP 3



SOLDER THE WIRES TO THE PADS

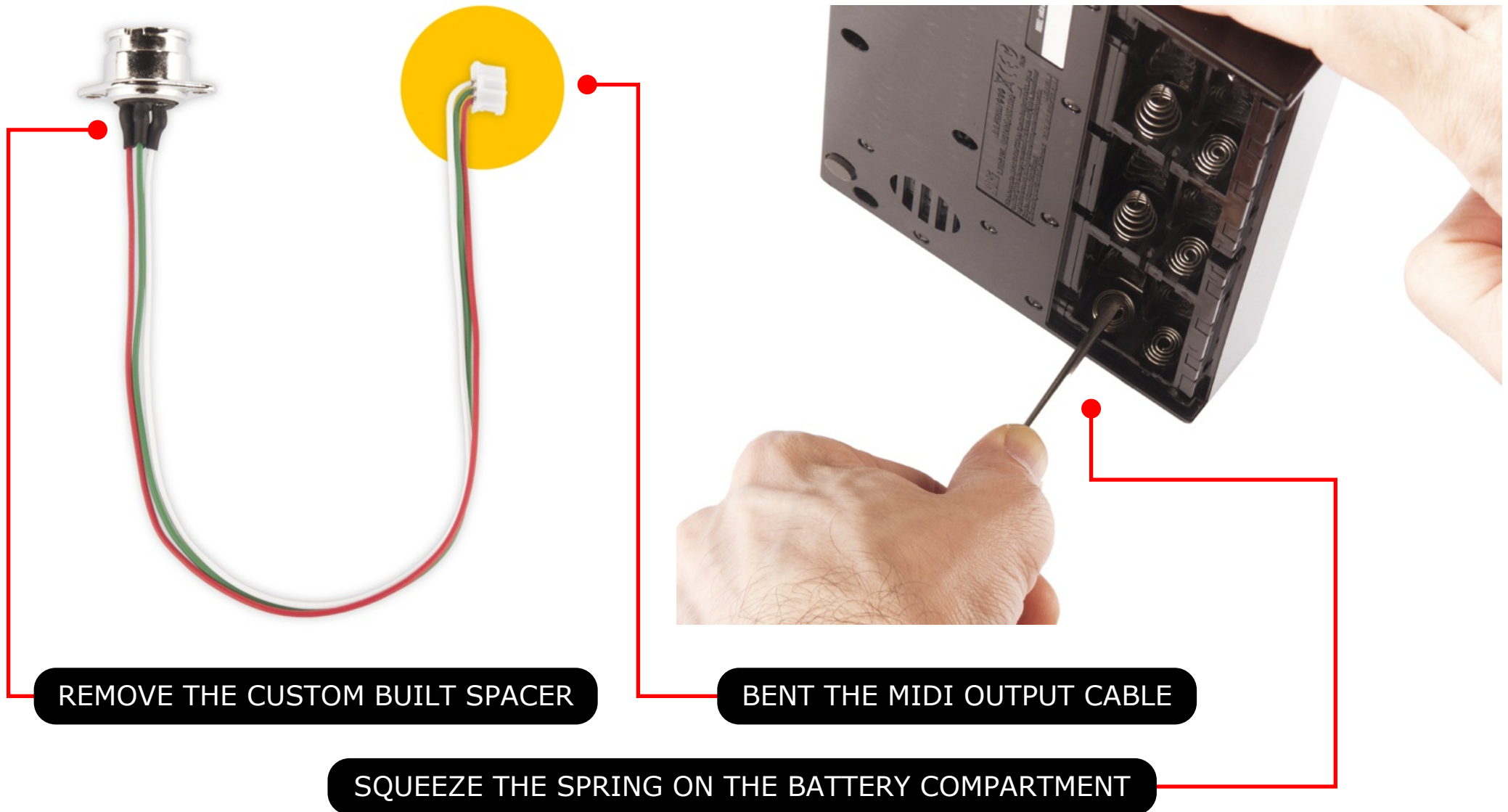
DISCONNECT THE MIDI OUTPUT CABLE

3.1 - Solder the wires to the pads following the labels on the Volcano PCB, **be careful not to overheat the circuit board as it may cause irreparable damage to your KORG Volca**, do it as fast and precisely as you can

3.2 - Disconnect the MIDI Output cable from the Volcano PCB



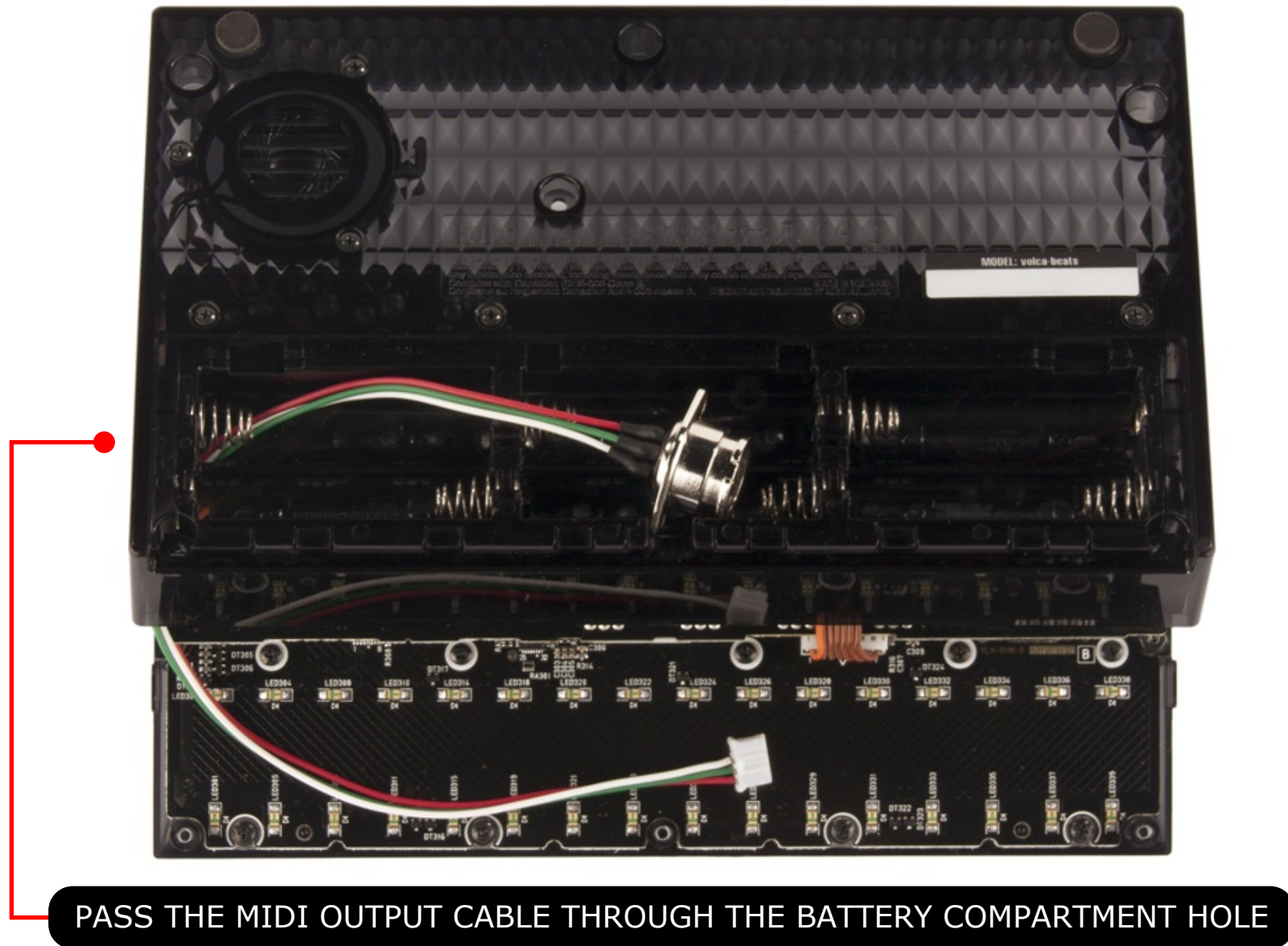
## VOLCANO QUICK INSTALLATION - VOLCA KEYS - STEP 4



- 4.1 - Using a Phillips Screwdriver, remove the Custom Built Spacer from the MIDI Output Connector
- 4.2 - Bent the MIDI Output cable to an "L" shape
- 4.3 - Using a Flat Tip Screwdriver, squeeze the spring on the left side of the battery compartment to pass the MIDI Output cable through the hole

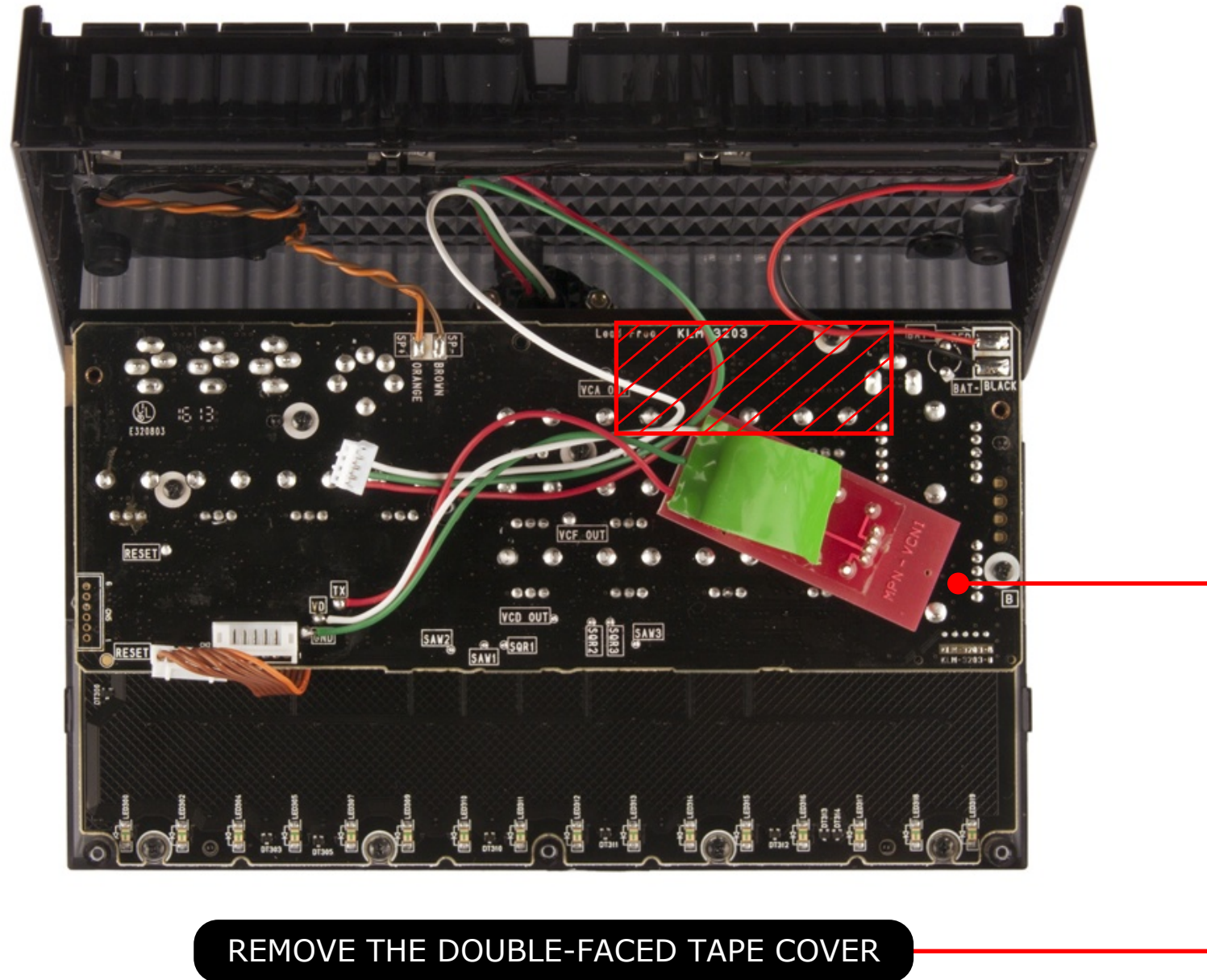


## VOLCANO QUICK INSTALLATION - VOLCA KEYS - STEP 5



- 5.1 - Pass the MIDI Output cable through the battery compartment hole, please note that Steps 4 and 5 are the same for the Volca Bass, Volca Beats and Volca Keys, that's why the pictures are showing a Volca Beats on both Steps

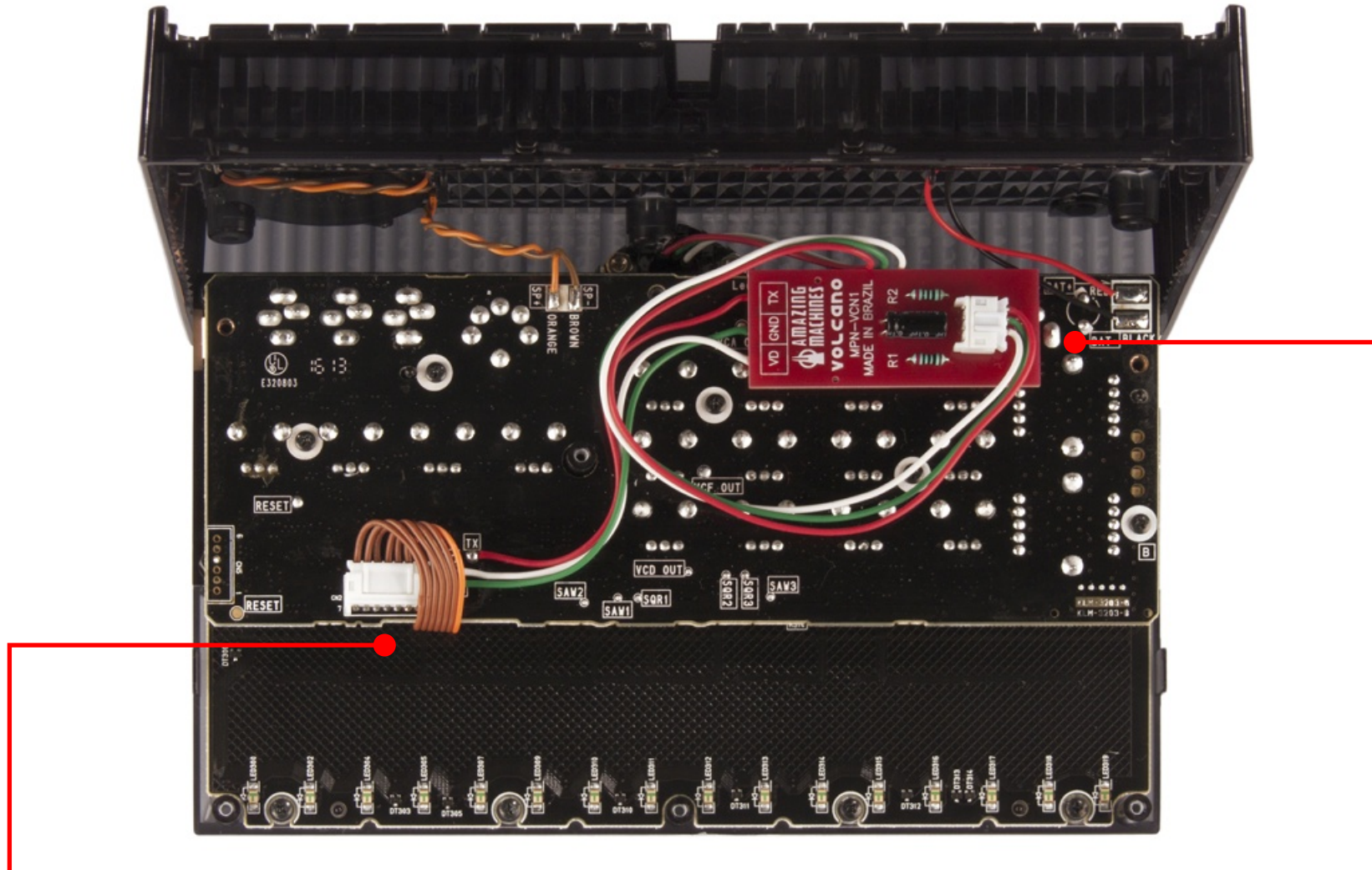
## VOLCANO QUICK INSTALLATION - VOLCA KEYS - STEP 6



- 6.1 - Remove the double-faced tape cover from the Volcano PCB
- 6.2 - Locate the best spot to attach the Volcano PCB to the KLM-3203 PCB



## VOLCANO QUICK INSTALLATION - VOLCA KEYS - STEP 7



RECONNECT THE CABLE TO THE CN2 CONNECTOR

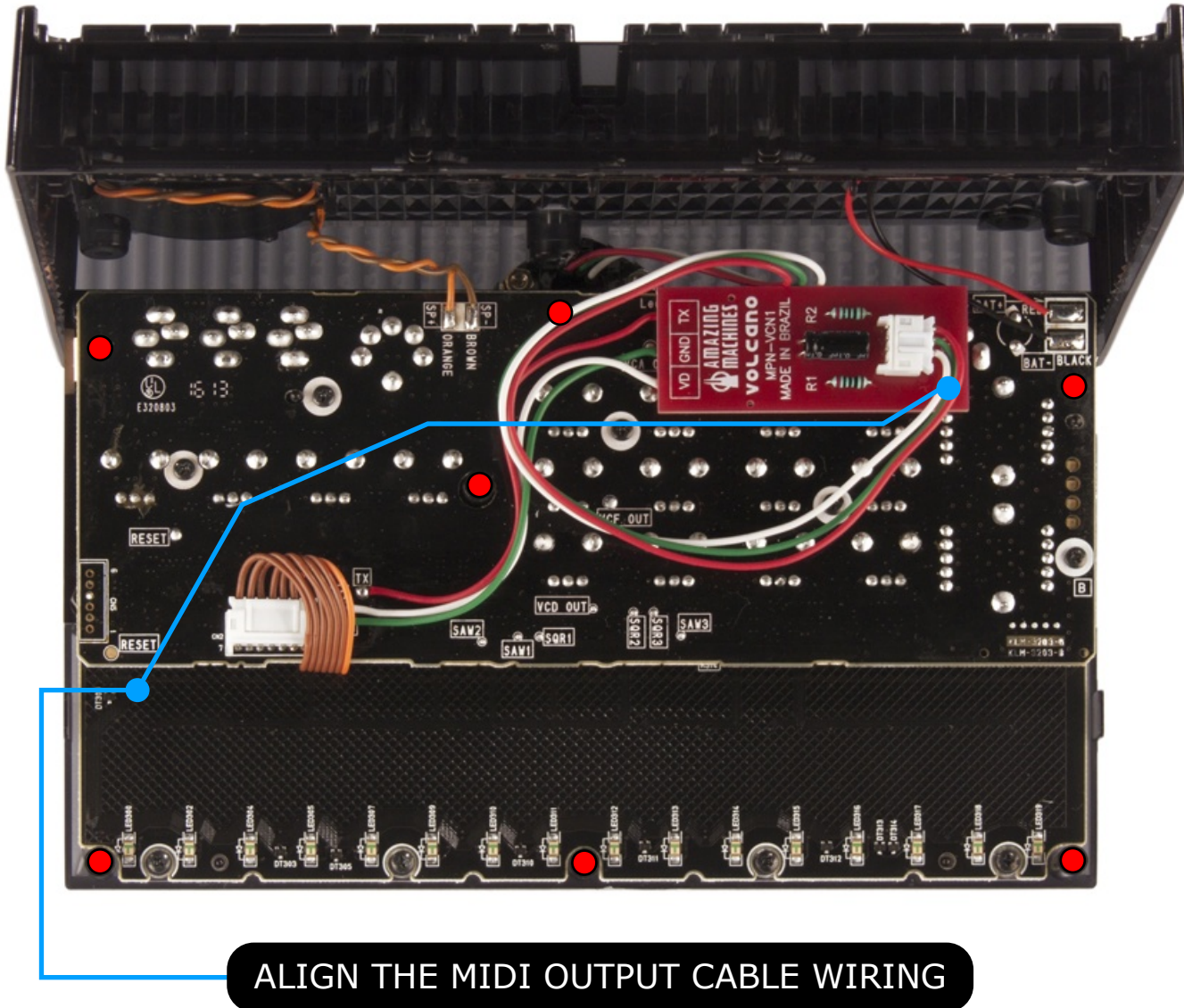
ATTACH THE VOLCANO PCB TO THE KLM-3203 PCB

7.1 - Reconnect the cable to the CN2 Connector on the KLM-3203 PCB

7.2 - Attach the Volcano PCB to the KLM-3203 PCB

7.3 - Using a Flat Long Nose Pliers, gently connect the MIDI Output cable to the CN1 Connector on the Volcano PCB, **make sure the contacts are properly aligned before using the pliers, don't apply too much strenght to the connectors, in order to avoid smashing the plastic parts**

## VOLCANO QUICK INSTALLATION - VOLCA KEYS - STEP 8



8.1 - Align the MIDI Output Cable Wiring before closing the case, **make sure no wires are getting smashed by the screw slots marked as red dots in the picture above, otherwise you won't be able to properly close the case, it may also damage the wiring**

## 8.2 - Close the case and reverse Step 1 to finish the installation



## VOLCANO QUICK INSTALLATION DONE - VOLCA KEYS



Congratulations, your Volcano Kit is installed and ready to use.

For instructions on how to perform a permanent installation of the Volcano Interface by drilling holes for the MIDI Output connector in the case of your KORG Volca, please refer to the "Volcano Permanent Installation Guide", available at [www.amazingmachines.com.br](http://www.amazingmachines.com.br)

### Sequencer Output

Start / Stop  
MIDI Clock  
Note On (Vel 127)  
Note Off (Vel 0)  
Note Range - F-1 to G6

- Motion Recorded Data appears at the MIDI Output Port as it's respective MIDI Continuous Controller assignment

### Step Buttons Output Notes

32' - F-1 to G1  
16' - F0 to G2  
8' - F1 to G3  
4' - F2 to G4  
2' - F3 to G5  
1' - F4 to G6

### Control Change Output

VCO MODE - 40  
OCTAVE - 41  
VCO DETUNE - 42  
PORTAMENTO - 5  
VCO EG INT - 43  
VCF CUTOFF - 44  
VCF EG INT - 45  
LFO RATE - 46  
LFO PITCH INT - 47  
LFO CUTOFF INT - 48  
EG ATTACK - 49  
EG DECAY / RELEASE - 50  
EG SUSTAIN - 51  
DELAY TIME - 52  
DELAY FEEDBACK - 53

