

HOW TO RECOGNIZE YOUR FIRMWARE VERSION:

THE CRUMAR MOJO DISPLAYS THE FIRMWARE VERSION BY ILLUMINATING THE APPROPRIATE LEDS ON THE UPPER AND LOWER PRESET BUTTONS 2 SECONDS AFTER SWITCH ON THE INSTRUMENT.

FOR EXAMPLE, IF THE INSTRUMENT IS RUNNING FIRMWARE VERSION 2.5, THE LED FOR THE NUMBER 2 PRESET IN THE UPPER SECTION AND THE LED FOR THE NUMBER 5 PRESET IN THE LOWER SECTION LIGHT UP AT THE SAME TIME. IF THE INSTRUMENT IS RUNNING FIRMWARE VERSION 6.1 THE LED FOR THE NUMBER 6 PRESET IN THE UPPER SECTION AND THE LED FOR THE NUMBER 1 PRESET IN THE LOWER SECTION LIGHT UP AT THE SAME TIME.

MAIN DIFFERENCES BETWEEN SIMPLIFIED FIRMWARE 6.1 AND COMPLETE FIRMWARE 2.5:

- **6.1 : AUTOSYNC AFTER 18 SECONDS:** YOU DON'T NEED TO PRESS MANUAL UPPER AND MANUAL LOWER TO MATCH PANEL CONFIGURATIONS.

2.5 : THE BOOT-UP PROCESS CONTINUES AS EVIDENCED BY THE STEADILY LIT LEDS ACROSS THE UPPER AND LOWER PRESET SECTIONS. DURING THIS PROCESS, THE INSTRUMENT STARTS THE INTERNAL SOFTWARE AND CONFIGURES THE SETTINGS OF THE VARIOUS CONNECTED ACCESSORIES. THE BOOT-UP PROCEDURE LASTS ABOUT 20 SECONDS.

AFTER 20 SECONDS, PRESS ANY OF THE KEYS ON EITHER THE UPPER OR LOWER MANUAL. ONCE THE KEYS ARE ACTIVE, THE BOOT-SEQUENCE IS COMPLETED AND THE MANUALS CAN BE SYNCHRONIZED. PRESS THE "MANUAL" BUTTON OR ANY OF THE PRESETS ON BOTH THE UPPER AND LOWER PRESET SECTIONS TO SYNCHRONIZE THE KEYBOARDS. THE BOOT-SEQUENCE LED PATTERN STOPS AND THE LEDS FOR ANY AND ALL RELATED FUNCTIONS LIGHT UP.

- **6.1 : BASS PEDAL TAP FUNCTION IS DISABLED.**

2.5 : BASS PEDAL TAP FUNCTION: SUSTAIN PEDAL CAN BE USED ALSO FOR "BASS PEDAL TAP" FUNCTION: THIS IS SOMETHING YOU MIGHT LIKE IF YOU ARE A JAZZ ORGANIST. MANY JAZZ ORGANISTS USE THEIR RADIAL PEDALBOARD FOR JUST "TAPPING" ON A SINGLE NOTE WHILE PLAYING THE BASS LINE WITH THEIR LEFT HAND. THIS ADDS A SENSE OF PERCUSSIVE FEEL TO THEIR COMPING MIMIKING THE SOUND OF AN UPRIGHT BASS. YOU CAN NOW PLAY A TAP NOTE BY USING A SUSTAIN PEDAL CONNECTED TO THE MOJO.

- 1) MAKE SURE THAT YOU HAVE CONNECTED THE SUSTAIN PEDAL BEFORE TURNING THE MOJO ON, THIS ASSURES THAT THE PEDAL HAS BEEN CONFIGURED WITH THE CORRECT POLARITY. IN CASE YOU FIND THAT THE RESPONSE IS REVERSED, PRESS SHIFT AND PRESS PEDAL-TO-LOWER FOR MORE THAN 3 SECONDS, THIS WILL REBOOT THE CONTROLLER AND RESCAN THE SUSTAIN PEDAL PORT.
- 2) MAKE SURE YOU'RE USING COMBINATION N. 1.
- 3) MAKE SURE THE PEDAL-TO-LOWER FUNCTION IS OFF.
- 4) MAKE SURE THAT THE SUSTAIN PEDAL FUNCTION IS OFF FOR BOTH MANUALS (PRESS SHIFT, CHECK BOTH THE PRESET LEDS N. 3).
- 5) NOW PLAY A NOTE ON THE LOWER MANUAL WITHIN THE FIRST 25 NOTES;
- 6) PRESS SHIFT TO ENTER EDIT MODE;
- 7) PUSH THE SUSTAIN PEDAL TO ASSIGN THE LAST PLAYED NOTE TO THE PEDAL TAP FUNCTION;
- 8) EXIT THE EDIT MODE.

NOW, EVERY TIME YOU PUSH THE SUSTAIN PEDAL, YOU'LL HEAR THAT NOTE PLAYING THE PEDALBOARD TONES. DON'T FORGET TO USE THE PEDALBOARD DRAWBARS!

- **6.1 : ALL HIDDEN FUNCTIONS** IN SHIFT MODE ARE DISABLED BESIDE: TRANSPOSE, SIM ON/OFF, COMBI MODE.

2.5 : PLEASE REFER TO THIS TABLE IN ORDER TO UNDERSTAND THE HIDDEN FUNCTIONS OF FIRMWARE 2.5

CRUMAR MOJO EDIT FUNCTION TABLE FW 2.5 (SHIFT FUNCTIONS)					
UPPER PRESET 1	▶	PROGRAM CHANGE MIDI CHANNEL 1-	LOWER PRESET 1	▶	PROGRAM CHANGE MIDI CHANNEL 2-
UPPER PRESET 2	▶	PROGRAM CHANGE MIDI CHANNEL 1+	LOWER PRESET 2	▶	PROGRAM CHANGE MIDI CHANNEL 2+
UPPER PRESET 3	▶	SUSTAIN PEDAL MIDI CHANNEL 1	LOWER PRESET 3	▶	SUSTAIN PEDAL MIDI CHANNEL 2
UPPER PRESET 4	▶	EXPRESSION PEDAL MIDI CHANNEL 1	LOWER PRESET 4	▶	EXPRESSION PEDAL MIDI CHANNEL 2
UPPER PRESET 5	▶	GLOBAL TRANSPOSE -1	LOWER PRESET 5	▶	ROTARY CONNECTION TEMP/LATCHED
UPPER PRESET 6	▶	GLOBAL TRANSPOSE +1	LOWER PRESET 6	▶	VELOCITY ON/OFF
UPPER MANUAL	▶	ROTARY SIMULATION ON/OFF CC53	LOWER MANUAL	▶	OUT SPLIT ON/OFF CC54

PEDAL TO LOWER	▶	PANIC! (3 SECONDS) + SW UPDATE
DRIVE	▶	CROSSTALK CC91
KEYCLICK	▶	KEYCLICK LENGHT CC92
REVERB	▶	REVERB LENGHT CC92
BASS	▶	ROTARY BALANCE CC94
TREBLE	▶	PERCUSSION VOLUME CC95
PEDAL DRAWBAR 16'	▶	PEDALBOARD SUSTAIN CC96

CRUMAR MOJO ADDITIONAL FEATURES FW 2.5	
MANUAL UPPER (2 SECONDS)	▶ UPPER DRAWBARS CANCEL + MIDI CHANNEL SHIFT ON CH 4 WITH VELOCITY
MANUAL LOWER (2 SECONDS)	▶ LOWER DRAWBARS CANCEL + MIDI CHANNEL SHIFT ON CH 5 WITH VELOCITY

USING FIRMWARE 2.5, DON'T FORGET THAT VALUES OF PARAMETERS THAT CAN BE EDITED FROM THE CRUMAR MOJO CONTROL PANEL ARE SYNCHRONIZED WITH THE PHYSICAL SETTINGS OF THE KNOBS OR BUTTONS ON THE CONTROLLER.

FOR EXAMPLE, THE "PERCUSSION VOLUME" PARAMETER CAN BE CHANGED BY PRESSING "SHIFT" ON THE CRUMAR MOJO CONTROL PANEL AND TURNING THE "TREBLE" KNOB. THE PERCUSSION VOLUME REMAINS AT THE LEVEL SET BY THE KNOB WHEN THE INSTRUMENT IS SHUT DOWN. WHEN THE CRUMAR MOJO IS RESTARTED, THE VB3 CE 2 SOFTWARE DETECTS THE VALUES OF THE PHYSICAL KNOBS AND SYNCHRONIZES THE PARAMETERS ACCORDINGLY. EVEN THOUGH THESE PARAMETERS CAN ALSO BE ADJUSTED WITHIN THE GUI, THE VALUES OF THE PARAMETERS RESET TO THE VALUES THAT MATCH THE PHYSICAL SETTINGS OF THE CONTROLLER WHENEVER A PRESET IS CHOSEN, THE "MANUAL" BUTTON IS PRESSED, OR THE INSTRUMENT IS RESTARTED.

FIRMWARE 2.5 IS NO NO MORE OFFICIALLY SUPPORTED BY US STARTING FROM 2017.