ANALOGUE MENU

Program Number	LFO Delay	LFO Waveshape	LFO Rate	ENV1 Attack	ENV1 Decay	ENV1 Sustain	ENV1 Release	FILTER CutOff	FILTER Resonance	WAVES osc	WAVES sub
Group A or B	ENV3 Attack	ENV3 Decay	ENV3 Attenuation	ENV2 Attack	ENV2 Decay	ENV2 Sustain	ENV2 Release	Modulation Wheel	Modifier ENV1 → VCF	Modifier ENV2 → Loudness	Modifier ENV1 → Waves

DIGITAL MENU

SOURCES : **K** keyboard | **M** LFO | **B** pitchbend | **T** aftertouch | **V** velocity → DESTINATIONS : **W** Wavetable position | **F** VCF | **L** VCA (loudness) | **M** LFO intensity

Program Number	**UW: Wavetable/ Transient mode.** WT : **0** normal + wrap, **1** Best-Of WT, **2** no 60-63 no wrap. TR: **0** short, **1** mid, **2** long.	**SW: Sub-osc mode**. **0** follows main, **1** independent, **2** EG3 wavetable sweep, 3 off, **4** hard sync, **5** ring mod, **6** noise.	**Keyboard shifts wavetable per key.** **0** off, **1-3** upward tracking, **4** per-key waves, **5-7** wider skips.	**KF: Filter keyboard tracking.** **0** off, **1-2** light, 3 normal/100%, **4-6** strong, **7** extreme/200%.	**KL: Amp keyboard loudness.** **0-3** highs louder, **4** even level, **5-7** lows louder.	**MW: Mod Wheel LFO wavetable sweep.** **0** off, **1** MdWhl controls LFO sweep, **2** MdWhl direct sweep, **3-9** LFO sweep depth.	**MF: Mod Wheel LFO filter mod.** **0** off, **1** MdWhl controls LFO sweep, **2** MdWhl cutoff, **3** MdWhl resonance, **4-9** LFO cutoff depth.	**ML: LFO amp modulation.** **0** off, **1** on. (Original: constant tremolo. Enhanced: MW controls tremolo.)
Group A or B	**BD: Pitchbend wheel target.** **0** off, **1** pitch, **2** cutoff, **3** waves, **4** sub pitch, **5** pitch+cutoff, **6** pitch+waves, **7** cutoff+waves.	**BI: Pitchbend range.** **0** 2st, **1** maj3, **2** fifth, **3** octave, **4** two octaves **5** octave stepped.	**TW: Aftertouch wavetable control.** **0** off, **1** AT sweeps waves, **2** AT controls LFO wave mod.	**TF: Aftertouch filter control.** **0** off, **1** AT sweeps cutoff, **2** AT controls LFO cutoff mod.	**TL: Aftertouch amp control.** **0** off **1** AT controls volume **2** AT controls LFO tremolo.	**TM: Aftertouch controls Mod Wheel.** **0** off **1** on.	**VF: Velocity controls filter cutoff.** **0** off, **1** low, **2** medium, **3** high.	**VL: Velocity controls amp level.** **0** off, **1** low, **2** medium, **3** high.

DETUNE MENU

Program Number	Sub/Main osc DETUNE **0** off, **1-4** increasing detune, **5** +5st, **6** +1oct, **7** +2oct, **8** -1oct, **9** -2oct.	**MO** PITCH OSC **0**=off **1**=on	**MS** PITCH SUB-OSC **0**=off **1**=on	**EO** PITCH ENV3 → OSC **0**=off **1**=on **2-9**=portamento	**ES** PITCH ENV3 → SUB-OSC **0**=off **1**=on	**BI** BENDWHEEL **0** : 2 semitones, **1** : 4 semitones, **2** : 7 semitones, **3** : 12 semitones, **4** : 24 semitones, **5** : 1 octave in semitone steps.

PROGRAM MENU

Program Number	BANK **0** or **1**	WAVE **0** to **30** TRAN **31** to **63** WAVE **64** to **127**	MIDI **0** no message **1-16** specific channel	DFT **0** Program (default) **1** to **7** transfert to edit buffers **8** INIT factory settings. **9 Store**, choose **Bank**, then **Preset**.	
SPLIT choose note **0 - 99**	KEYBOARD **0** Poly | **1** Quad | **2** Duo | **3** Unison Split modes : **4** Quad **5** A – Mono, B – Quad, **6** A – Mono, B – Poly **7** A – Poly, B – Mono, **8** A – Mono, B – Mono **9** A – Poly, B – Mono CV IN	TUNE 400hz / 499hz	SYSEX data dump **0** none, **1** edit buffer, **2** program, **3** bank, **4** seq edit, **5** prog seq, **6** bank seq	LOCAL CONTROL **0** Off **1** Enabled	

PROGRAM MENU (double press)

Program Number	EXPRESSION PEDAL **0** Off | **1** Loudness ENV 2 **2** Filter CutOf **3** Filter Resonance **4** Wave **5** Mod Wheel	CHANNEL AFTERTOUCH **0** Off **1** Enabled and transmitted **2** Enabled and received **3** Enabled transmitted and received	LCD Brightness	LCD Contrast	
FIRMWARE version	PAR-COM **0** No CC **1** CC transmitted only **2** CC received only **3** CC transmitted and received	FIRMWARE EMULATION **0** Original **1** Enhanced **2** Enhanced ENV	OSC QUALITY **0** Original **1** Enhanced	LFO PRECISION **0** Original **1** Modern	

SEQUENCER MENU

Program Number	**MOD: Sequencer mode** **First digit** **0** sequencer, **1** ARP 1, **2** ARP 2 **Second digit** **0** Sequencer, **1** Up, **2** Down, **3** Up&Down, **4** Random, **5** Moving	**CLK: Clock source and rate** **First digit** **0** internal clock, **1** DIN MIDI, **2** USB MIDI, **3** Analog trigger **Second digit** **0** 1 pulse per step, **1** 2 ppqn, **2** 24 ppqn, **3** 48 ppqn	**Gate** Gate : 1 to 99	**DIV Clock Division** **0** ¼ note, **1** 1/8 note, **2** 1/16 note, **3** 1/32 note **4** ¼ note triplet **5** 1/18 note triplet **6** 1/16 note triplet	**BPM** Internal clock speed 40 to 240 bpm	
MTN Metronome **0** off, **1** on	**OPV** **First digit (Overdub)** **0** disabled, **1** enabled **Second digit (Transpose)** **0** enabled, **1** keyboard independent of sequencer	**SAVE** **0** no, **1** yes	**STEP** step and total	**STATUS** playing, recording, appending or arpeggiating		

Memo Sheet for Behringer WAVE, Firmware 1.0.11
by Cedric Lawde v2