

G A M E C H A N G E R | A U D I O MOTOR PEDAL MIDI TABLE & TECH SPECS

CC	NAME	MSB value range	MSB and LSB val range (CC_msb+32 is CC_lsb)		
1 (MODWHEEL)	MOD	[0127] = [min MODmax MOD]	[016383] = [min MODmax MOD]		
8	SHIFT	[017] = [-Oct], [1835] = [-5th], [3653] = [-4th], [5472] = [0], [7390] = [+4th], [91108] = [+5th], [109127] = [+Oct]	[02340] = (Oct). [23414860] = (-5th). [48817021] = [4th]. [70229361] = [0]. [95821702] = [44th]. [1170314042] = (+5th]. [1404316333] = (+Oct].		
9	RELEASE	[0127] = [min RELEASEmax RELEASE]	[016383] = [min RELEASEmax RELEASE]		
10	VIBR/GLIDE	[063] = [max VIBRmin VIBR], [64127] = [min ACCELmax ACCEL]	[08192] = [max VIBRmin VIBR], [819316383] = [min ACCELmax ACCEL]		
11	MOD	[0127] = [min MODmax MOD]	[016383] = [min MODmax MOD]		
12	ENGINE	[025] = [ENGINE 1: MOTOR], [2651] = [ENGINE 2: MxD], [5276] = [ENGINE 3: MWAVE], [77102] = [ENGINE 4: COIL], [103127] = [ENGINE 5: VOCODER],	[03276] = [ENGINE 1: MOTOR], [32776553] = [ENGINE 2: MxOJ, [65549829] = [ENGINE 3: MWAVE], [983013106] = [ENGINE 4: COIL], [1310716383] = [ENGINE 5: VOCODER],		
13	PEDAL	[025] = [PEDAL MODE 1: ACCEL], [2651] = [PEDAL MODE 2: BRAKE], [5276] = [PEDAL MODE 3: CLUTCH], [77102] = [PEDAL MODE 4: DRIFT], [103127] = [PEDAL MODE 5: VOLUME],	[03276] = [PEDAL MODE 1: ACCEL], [32776553] = [PEDAL MODE 2: BRAKE], [65549829] = [PEDAL MODE 3: CLUTCH], [983013106] = [PEDAL MODE 4: DRIFT], [1310716383] = [PEDAL MODE 5: VOLUME],		
14	EFFECT ON (FSW)	[063] = OFF, [64127] = ON	[08191] = OFF, [819216383] = ON		
15	PEDAL VALUE	[0127] = [off fully pressed (normal range)]	[016383] = [off fully pressed (normal range)]		
16	FLOOR-IT VALUE	[0127] = [pressedmax pressure (floor-it)]	[016383] = [pressedmax pressure (floor-it)]		
17	MIDI NOTE ONLY MODE (disable instrument input pitchtracker e.g. for vocoding)	[063] = OFF, [64127] = ON	[08191] = OFF, [819216383] = ON		
18	PEDAL + PRESSURE VALUE	[090] = [offfully pressed (normal range)], [91102] = [deadzone], [103127] = [pressedmax pressure (floor-it)]	[011469] = [offfully pressed (normal range)], [1147013106] = [deadzone], [1310716383] = [pressedmax pressure (floor-it)]		

PC	1	2	3	4	5	11	12	13	14	15
Г	ENGINE 1:	ENGINE 2:	ENGINE 3:	ENGINE 4:	ENGINE 5:	PEDAL MODE 1:	PEDAL MODE 2:	PEDAL MODE 3:	PEDAL MODE 4:	PEDAL MODE 5:
	MOTOR	MxD	MWAVE	COIL	VOCODER	ACCEL	BRAKE	CLUTCH	DRIFT	VOLUME

Connections	<u> </u>					
Inputs	IN MONO	6.35mm(1/4")TS socket				
Inputo	TRACK IN	6.35mm(1/4")TS socket				
	MIDLIN	MIDI 5 PIN DIN cable input				
Outputs	OUT MONO	6.35mm(1/4")TS socket				
Outputo	TRACK OUT	6.35mm(1/4")TS socket				
Data	USB-C	MIDI & Firmware update				
SOUND	0000					
	n signal multiplier (X-mod) an	d 5 MOTOR synthesis modes				
Dant III analo	ENGINE	MOTOR, MxD, MWAVE, COIL, VOCODER				
	MOD	Waveshaping, timbre and analog signal multiplier depth				
	SHIFT	-OCT, -5th, -4th, 0, +4th, +5th, +Oct				
	VIBR / GLIDE	Max vibrato: +/-100c, max glide: 5				
	RELEASE	200ms to infinite				
	DRIVE	Analog hard-clipping drive circuit				
	TONE	Analog tilt boost/cut EQ, Fc=300Hz, +/-6dB				
	CLEAN	Analog CLEAN channel volume mixer				
	MOTOR	Analog MOTOR channel volume mixer				
Built-in spring	-loaded expression "accelera	_ ~				
	PEDAL	ACCEL, BRAKE, CLUTCH, DRIFT, VOLUME				
Indication	1					
	MOTOR DISC LED	Red LED shining on disc indicating effect on/off				
Dashboard	ENGINE LED bar	Indicates selected ENGINE				
	REV LED bar	Indicates current motor RPM (in COIL mode: pitch)				
	PEDAL MODE LED bar	Indicates built-in expression pedal mode				
	X-MOD LED	Green when MOD knob is on the right side. White when				
		recieving signal				
	ENGINE LED	Motor module health status				
	IN LED	Green when recieving input signal. Blue when recieving MIDI input				
Signal speci	fication					
Signal level	IN / OUT / TRACK IN / TRACK OUT	4Vpp max				
Impedance	Audio Input impedance	500 kOhm				
	Audio Output impedance	100 Ohm				
Motor Syster	m					
	Motor Module Assembly	Type 030 brushed DC motor, encoder and pickup assembly - GCA partname: MMB1				
	Min speed:	400 rpm (20Hz)				
	Max speed:	Range 26000 42000 rpm (1300Hz 2100Hz) depending on power supply (9V 500mA 9V 1A)				
Power						
	DC Power input	Center negative 9-12 V, Minimum 500 mA, 2.1 x 5.5 mm plug				
Weight & Dir	eight & Dimensions					
	Dimensions	18 x 10 x 8 (cm) / 7.1" x 4" x3.2" (L x W x H)				
	Weight	1.07kg / 2.4lbs				