Matriarch SysEx - Message Template

F0 04 17 23 [Parameter ID], [value MSB], [value LSB], 00 00 00 00 00 00 00 00 [Unit ID] F7

EXAMPLE 1

Note Priority Parameter ID = 3 (03)

 $Value\ MSB = 00$ $Value\ LSB\ (parameter\ value) = (00 = Low,\ 01 = High,\ 02 = Last)$

F0 04 17 23 03 00 **02** 00 00 00 00 00 00 00 F7 = Note Priority Last Note

F0 04 17 23 03 00 **01** 00 00 00 00 00 00 00 F7 = Note Priority = High

F0 04 17 23 03 00 **00** 00 00 00 00 00 00 00 F7 = Note Priority = Low **EXAMPLE 2**

Local Control: Keys $Parameter\ ID = 16(10)$

 $Value\ MSB = 00$

Value LSB (parameter value) = (00 = off, 01 = On)

F0 04 17 23 10 00 00 00 00 00 00 00 00 00 F7 = Local Keys off F0 04 17 23 10 00 01 00 00 00 00 00 00 00 F7 = Local Keys ON

SCRIPT EXAMPLE for RADIO BUTTONS

EXAMPLE 2

Local Control Arp/Seq

 $Parameter\ ID = 19$ $Value\ MSB = 00$

 $Value\ LSB\ (parameter\ value)=(00=off,\ 01=On)$ *NOT NECESSARY to CONVERT Parameters to Hexadecimal if using Touch OSC SCRIPT....

(except manufacturer and device id—-but that will be the same for all parameters) -- radiobuttons starts index at 0, grids start at index 1. -- define MIDI channel by adding an offset to the type, no offset = chan 1

---- SCRIPT -----

 $local\ a = \{\}$

MIDIconnections = { true, true, false, false, false }

function onValueChanged(key) if (key == "x") then sendMIDI(a[self.values.x], MIDIconnections)				
end end	ecg,, waresurg, i	,		
MATRIARCH SYSX IMPLEMENTATION				
Parameter ID	Parameter Name	Values 0-15 (Default: 0)	Sysex	SCRIPT
1 2	Tuning Scale Knob Mode	0-31 (Default: 0 / 12- TET) 0 = Snap, 1 = Pass-		
3	Note Priority Transmit	Thru, 2 = Relative (Default: 2 / Relative) 0 = Low, 1 = High, 2 = Last Note (Default: 2 / Last Note) 0 = Off, 1 = On (Default:	F00417230300020000000000000001F7 = Last Note F004172303000100000000000001F7 = High F004172303000000000000000001F7 = Low	0x4, 23, 35, 03, 00, 02, 00, 00, 00, 00, 00, 00, 00, 00
5	Program Change Receive Program Change MIDI Input Ports	0 / Off) 0 = Off, 1 = On (Default: 1 / On) 0 = none, 1 = DIN only,	F004172306000000000000000001F7 = none	0x4, 23, 35, 06, 00, 00, 00, 00, 00, 00, 00, 00, 00
7	MIDI Output Ports	2 = USB only, 3 = Both (Default: 3 / Both DIN and USB) 0 = none, 1 = DIN only, 2 = USB only, 3 = Both (Default: 3 / Both DIN	F004172306000100000000000001F7 = Din Only F0041723060002000000000000001F7 = (Both) F004172307000000000000000001F7 = none F004172307000100000000000001F7 = Din Only	0x4, 23, 35, 06, 00, 01, 00, 00, 00, 00, 00, 00, 00, 00
8	MIDI Echo USB In	and USB) 0 = Off, 1 = Echo USB In to DIN Out, 2 = Echo USB In to USB Out, 3 = Echo USB In	F0041723070002000000000000001F7 = (Both) F004172308000000000000000001F7 = (OFF) F0041723080001000000000000001F7 = USB in - DIN OUT	0x4, 23, 35, 07, 00, 02, 00, 00, 00, 00, 00, 00, 00, 00
	MIDI Echo DIN	to Both DIN and USB Out (Default: 0 / Off) 0 = Off, 1 = Echo USB	F00417230800020000000000000001F7 = USB in - USB OUT F00417230800030000000000000001F7 = USB in - BOTH	0x4, 23, 35, 08, 00, 03, 00, 00, 00, 00, 00, 00, 00, 00
9	In	In to DIN Out, 2 = Echo USB In to USB Out, 3 = Echo USB In to Both DIN and USB Out (Default: 0 / Off)	F004172309000000000000000001F7 = (OFF) F0041723090001000000000000001F7 = USB in - DIN OUT F0041723090002000000000000001F7 = USB in - USB OUT F004172309000300000000000001F7 = USB in - BOTH	0x4, 23, 35, 09, 00, 00, 00, 00, 00, 00, 00, 00, 00
10	MIDI Channel IN	0-15 = MIDI Channel 1-16 (Default: 0 / MIDI Channel 1)	F00417230A000000000000000001F7 = 1 F00417230A000100000000000001F7 = 2etc **for next channels replace bold # with next channel # using Hexadecimal format	0x4, 23, 35, 10, 00, 00, 00, 00, 00, 00, 00, 00, 00
11	MIDI Channel OUT MIDI Out Filter -	0-15 = MIDI Channel 1-16 (Default: 0 / MIDI Channel 1) 0 = OFF, 1 = ON	F00417230B000000000000000001F7 = 1 **SAME AS ABOVE	0x4, 23, 35, 11, 00, 00, 00, 00, 00, 00, 00, 00, 00
13	MIDI Out Filter - Wheels MIDI Out Filter	(DEFAULT: 1 / ON) $0 = Off, 1 = On$ $(Default: 1 / On)$ $0 = Off, 1 = On$		
15	- Panel Output 14-bit MIDI CCs	(Default: 1 / On) 0 = Off, 1 = On (Default: 0 / Off)	F00417230F000000000000000001F7 = 1 F00417230F000100000000000001F7 = 2	0x4, 23, 35, 15, 00, 00, 00, 00, 00, 00, 00, 00, 00, 0
16	Local Control: Keys Local Control:	0 = Off, 1 = On (Default: 1 / On) 0 = Off, 1 = On	F00417231000000000000000000000F7 = Local Keys OFF F00417231000010000000000000000F7 = Local Keys ON	0x4, 23, 35, 16, 00, 00, 00, 00, 00, 00, 00, 00, 00, 0
18 19 20	Wheels Local Control: Panel Local Control: Arp/Seq Sequence	(Default: 0 / Off) 0 = Off, 1 = On (Default: 0 / Off) 0 = Off, 1 = On (Default: 1 / On) 0 = Relative to First	F0041723130000000000000000000000000000000000	0x4, 23, 35, 19, 00, 00, 00, 00, 00, 00, 00, 00, 00, 0
21		Note, 1 = Relative to Middle C (Default: 0 / First Note) 0 = Off, 1 = On (Default: 0 / Off) 0 = Don't Repeat end	F004172316000000000000000000000000000000000000	0x4, 23, 35, 22, 00, 00, 00, 00, 00, 00, 00, 00, 00
23	Arp/Seq Swing	notes; 1 = Repeat end notes (Default: 1 / Repeat) 0-16383 = 0 to 100% (Default: 8192 = 50% / no swing) 0 = Off, 1 = On	F004172316000100000000000000000000000000000000	0x4, 23, 35, 22, 00, 01, 00, 00, 00, 00, 00, 00, 00, 00
25	Keyboard Control Delay Sequence Change	0 = Off, $1 = Off(Default: 1 / On)0 = Off$, $1 = Off(Default: 0 / Off)0 = Off$, $1 = Off$	F0041723180000000000000000000F7 = OFF F004172318000100000000000000F7 = ON	0x4, 23, 35, 24, 00, 00, 00, 00, 00, 00, 00, 00, 00, 0
26	Sequence Latch Restart Arp/Seq Clock Input Mode	0 = Oli, 1 = Oli (Default: 0 / Off) 0 = Clock, 1 = Step- Advance Trigger (Default: 0 / Clock)	F00417231b0000000000000000000F7 = OFF F00417231b000100000000000000F7 = ON	0x4, 23, 35, 27, 00, 00, 00, 00, 00, 00, 00, 00, 00, 0
28	Arp/Seq Clock Output	0 = Always, 1 = Only When Playing (Default: 1 / When Playing)	F00417231c0000000000000000000F7 = OFF F00417231c0001000000000000000F7 = ON	0x4, 23, 35, 28, 00, 00, 00, 00, 00, 00, 00, 00, 00, 0
30	Arp MIDI Output Send MIDI Clock	0 = Off, 1 = On (Default: 1 / On) 0 = Off, 1 = Only When Playing, 2 = Always (Default: 0 / Off)	F00417231c00000000000000000000F7 = OFF F00417231c0001000000000000000F7 = ON F00417231e00020000000000000001F7 = Last Note F00417231e0001000000000000001F7 = High F00417231e0000000000000000001F7 = Low	0x4, 23, 35, 29, 00, 00, 00, 00, 00, 00, 00, 00, 00, 0
31	Send MIDI Start/Stop Follow MIDI Clock	0 = Off, 1 = On (Default: 1 / Off) 0 = Off, 1 = On (Default: 1 / On)	F00417231f000000000000000000F7 = OFF F00417231f00010000000000000F7 = ON F00417232000000000000000000F7 = OFF F004172320000100000000000000F7 = ON	0x4, 23, 35, 31, 00, 00, 00, 00, 00, 00, 00, 00, 00, 0
33	Follow MIDI Start/Stop Follow Song	0 = Off, $1 = On(Default: 1 / On)0 = Off$, $1 = On$	F0041723210000000000000000000F7 = OFF F0041723210001000000000000000F7 = ON F004172322000000000000000000F7 = OFF	0x4, 23, 35, 33, 00, 00, 00, 00, 00, 00, 00, 00, 00
35	Position Pointer Clock Input PPQN Index	(Default: 1 / On) 0-15 (Default: 3 / sixteenth notes [4PPQN])	F00417232200010000000000000000F7 = ON F004172323000000000000000000F7 = 1PPQN F0041723230001000000000000000F7 = 2PPQN F004172323000200000000000000F7 = 3PPQN	0x4, 23, 35, 34, 00, 01, 00, 00, 00, 00, 00, 00, 00, 00
36	PPQN Index	0-15 (Default: 3 / sixteenth notes [4PPQN]) 0-12 (Default: 2)	F0041723230003000000000000000000000000000000	0x4, 23, 35, 35, 00, 03, 00, 00, 00, 00, 00, 00, 00, 00
38	Octave	0-4 = -2 to +2 (Default: 2 / no transpose)	F004172325000300000000000000F7 = 3 F0041723250004000000000000000F7 = 4 F00417232500050000000000000000F7 = 5 F0041723250006000000000000000F7 = 6 F004172325000700000000000000F7 = 7 F00417232500080000000000000F7 = 8 F00417232500090000000000000F7 = 9 F004172325000A0000000000000F7 = 10 F004172325000B0000000000000F7 = 11 F004172325000C00000000000000F7 = 12	0x4, 23, 35, 37, 00, 03, 00, 00, 00, 00, 00, 00, 00, 00
39	Transpose Delayed KB Octave Transpose	transpose) 0 = Off, 1 = On (Default: 1 / On)		
41	Glide Type Gated Glide	0 = Linear Constant Rate, 1 = Linear Constant Time, 2 = Exponential (Default: 0 / LCR) 0 = Off, 1 = On (Default: 1 / On)	USED MIDI CC	
42		0 = Off, 1 = On (Default: 1 / On) 0-24 Semitones (Default: 7)	USED MIDI CC F00417232b0001000000000000000F7 = 1 F00417232b000200000000000000F7 = 2	0x4, 23, 35, 43, 00, 01, 00, 00, 00, 00, 00, 00, 00, 00
			F00417232b000300000000000000F7 = 3 F00417232b0004000000000000000F7 = 4 F00417232b00050000000000000000F7 = 5 F00417232b00060000000000000000F7 = 6 F00417232b0008000000000000000F7 = 7 F00417232b0008000000000000000F7 = 8 F00417232b000800000000000000F7 = 10 F00417232b000800000000000000F7 = 11 F00417232b000800000000000000F7 = 12 F00417232b000C00000000000000F7 = 13 F00417232b000E0000000000000F7 = 14 F00417232b000F0000000000000F7 = 15 F00417232b00110000000000000F7 = 16 F00417232b00120000000000000F7 = 17 F00417232b00130000000000000F7 = 18 F00417232b00130000000000000F7 = 19 F00417232b001500000000000000F7 = 20 F00417232b001500000000000000F7 = 21 F00417232b001500000000000000F7 = 22 F00417232b001600000000000000F7 = 23 F00417232b001800000000000000F7 = 24	0x4, 23, 35, 43, 00, 03, 00, 00, 00, 00, 00, 00, 00, 0
44	Knob Range Osc 4 Freq	0-24 Semitones (Default: 7) 0-24 Semitones	SAME AS ABOVE -BUT REPLACE (2B) WITH (2C) F0041723 2C 0001000000000000000000000000000000000	SAME AS ABOVE -BUT REPLACE 43 WITH 44 0x4, 23, 35, 44 , 00, 01, 00, 00, 00, 00, 00, 00, 00, 0xF7 } SAME AS ABOVE -BUT REPLACE 44 WITH 45
46	Enable	(Default: 7) 0 = Off, 1 = On (Default: 0 / Off)	F0041723 2D 00010000000000000000F7 = 1 F00417232E0000000000000000000F7 = OFF F00417232E0001000000000000000F7 = OFF	0x4, 23, 35, 45 , 00, 01, 00, 00, 00, 00, 00, 00, 00, 00
48	Osc 2 Hard Sync Osc 3 Hard Sync	0 = Off, 1 = On (Default: 0 / Off) 0 = Off, 1 = On (Default: 0 / Off)	F00417232F0000000000000000000F7 = OFF F00417232F000100000000000000F7 = ON F004172330000000000000000000F7 = OFF F004172330000100000000000000F7 = ON	0x4, 23, 35, 47, 00, 00, 00, 00, 00, 00, 00, 00, 00, 0
49 50	Osc 4 Hard Sync Delay Ping Pong	0 = Off, $1 = On(Default: 0 / Off)0 = Off$, $1 = On(Default: 0 / Off)$	F0041723310000000000000000000F7 = OFF F004172331000100000000000000F7 = ON F004172332000000000000000000F7 = OFF F0041723320001000000000000000F7 = ON	0x4, 23, 35, 49, 00, 00, 00, 00, 00, 00, 00, 00, 00, 0
	Delay Filter Brightness	0 = Off, 1 = On (Default: 0 / Off) 0 = Dark, 1 = Bright (Default: 1 / Bright)	F00417233200000000000000000000F7 = OFF F0041723320001000000000000000F7 = ON F0041723340000000000000000000F7 = DARK F0041723340001000000000000000F7 = BRIGHT	0x4, 23, 35, 51, 00, 00, 00, 00, 00, 00, 00, 00, 00, 0
53 54 55	Sync-Bend Tap-Tempo Clock Division Persistence Paraphony	0 = Off, 1 = On (Default: 0 / Off) 0 = Off, 1 = On (Default: 0 / Off) 0 = Mono, 1 = Duo, 2	F0041723350000000000000000000F7 = OFF F0041723350001000000000000000F7 = ON	0x4, 23, 35, 53, 00, 00, 00, 00, 00, 00, 00, 00, 00, 0
56 57	Mode Paraphonic Unison Multi Trig	= Quad (Default: 0 / Mono) 0 = Off, 1 = On (Default: 0 / Off) 0 = Off, 1 = On (Default: 0 / Off)		
58	Pitch Variance KB CV OUT	0-400 = Off to +/- 40 cents in 0.1-cent increments. (Default: 0 / Off) 0 = -5V to +5V, 1 =		
60	Arp/Seq CV OUT Range	0 = -5V to +5V, T = 0V to 10V (Default: 0 / -5 to +5) 0 = -5V to +5V, T = 0V to 10V (Default: 0 / -5 to +5)		
61	Range	0 = -5V to +5V, 1 = 0V to 10V (Default: 0 / -5 to +5) 0 = -5V to +5V, 1 = 0V to 10V (Default:		
63	KB AT OUT Range	0/-5 to $+5$) 0 = -5V to $+5V$, $1 = 0V$ to $10V$ (Default: $0/-5$ to $+5$)		
64 65	MOD WHL OUT Range KB GATE OUT Range	0 = -5V to +5V, 1 = 0V to 10V (Default: 0 / -5 to +5) 0 = -5V to +5V, 1 = 0V to 10V (Default:		

OUT Range

Round-Robin

Restore Stolen

on Note-Off

Square Wave

Noise Filter

70 Mod Oscillator

Polarity

Cutoff

Random

Repeats

ARP/SEQ CV

OUT Mirrors KB CV

KB CV OUT

Mirrors ARP/

SEQ CV

72 Arp/Seq

71

73

Mode

Voices

Arp/Seq GATE 0 = -5V to +5V, 1 =

0V to 10V (Default: 0 / -5 to +5)

(Default: First-Note

Reset, 2 = On

0 = Off, 1 = On

(Default: 0 / Off)

(Default: 0 / Off)

Mod Oscillator

Square Wave

Noise Filter Cutoff

0 = no repeating

repeating

notes/steps in RND

direction, 1 = allow

notes (true random). Default: 1 / Allow Repeats

0 = Off, 1 = On

0 = Off, 1 = On

(Default: 0 / Off)

(Default: 0 / Off)

Polarity

Reset)

Update Unison 0 = Off, 1 = On

0 = Off, 1 = First-Note | F004172343000000000000000000F7 = OFF

USED MIDI CC

USED MIDI CC

Repeats)

F0041723430001000000000000000F7 = FIRST RESET

F004172343 00 02 00 00 00 00 00 00 00 00 F7 = ON

F0041723450000000000000000000F7 = (OFF)

F00417234400010000000000000000F7 = ON

F00417234500010000000000000000F7 = ON

F0041723480000000000000000000F7 = NO

F00417234800010000000000000000F7 = (allow

F00417234A000000000000000000F7 = (OFF)

F00417234A0001000000000000000F7 = ON

F0041723490001000000000000000F7 = ON

0x4, 23, 35, 67, 00, 01, 00, 00, 00, 00, 00, 00, 00, 0xF7

0x4, 23, 35, 67, 00, 02, 00, 00, 00, 00, 00, 00, 00, 0xF7

0x4, 23, 35, 68, 00, 01, 00, 00, 00, 00, 00, 00, 00, 0xF7

0x4, 23, 35, 69, 00, 01, 00, 00, 00, 00, 00, 00, 00, 0xF7

0x4, 23, 35, 72, 00, 01, 00, 00, 00, 00, 00, 00, 00, 0xF7

0x4, 23, 35, 73, 00, 01, 00, 00, 00, 00, 00, 00, 00, 0xF7

0x4, 23, 35, 74, 00, 01, 00, 00, 00, 00, 00, 00, 00, 0xF7

0 / -5 to +5)