

System Exclusive Messages

Note that all SysEx messages use the Evolver ID, rather than the Poly Evolver ID. This maintains compatibility with Evolver, since the programs are the same.

Program Parameters

All Program-Parameters currently in the Evolver can be changed by changing these parameters. After changing these parameters, they have to be saved inside the Evolver. Otherwise they will be reset after power-off.

Status	Description	Param# min..max	LS min..max	MS min..max	
1111 0000	System Exclusive (SysEx)				F0 01 20 01 01
0000 0001	DSI ID				
0010 0000	Evolver ID				
0000 0001	File Version				
0000 0001	Program Parameter	00...7F	00...0F	00...0F	
0vvv vvvv	Parameter Number 0 – 127. Parameters are in the same order as Evolver. The Parameter data starts on page 66 of the manual.				
0000 vvvv	Parameter value, LS Nibble				
0000 vvvv	Parameter value, MS Nibble				
1111 0111	End of Exclusive (EOX)				F7

!!! If this message is received while in Combo mode:
Only the Parts with MIDI enabled will respond to the change.

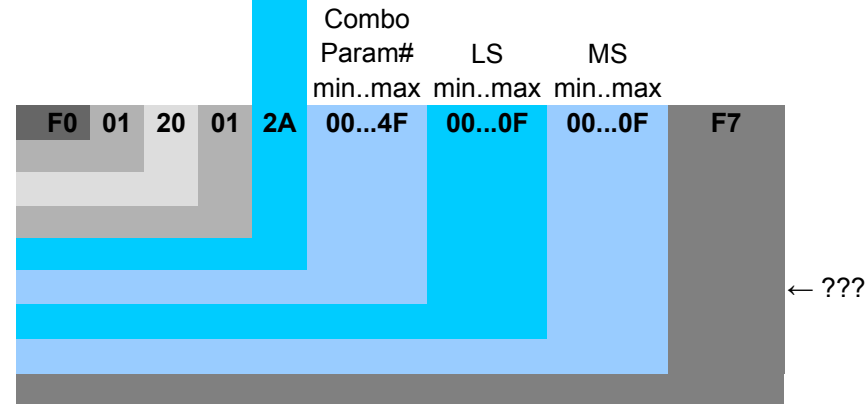
Sequencer Parameters

Status	Description	Sequen. Step# min..max	LS min..max	MS min..max	
1111 0000	System Exclusive (SysEx)				F0 01 20 01 08
0000 0001	DSI ID				
0010 0000	Evolver ID				
0000 0001	File Version				
0000 1000	Sequence Parameter	00...3F	00...0F	00...0F	
00vv vvvv	Sequence step 0 – 63. 0...15 are sequence 1 steps, 16...31 for sequence 2, etc.				
0000 vvvv	Step value, LS Nibble				
0000 vvvv	Step value, MS Nibble				
1111 0111	End of Exclusive (EOX)				F7

Combo Parameters

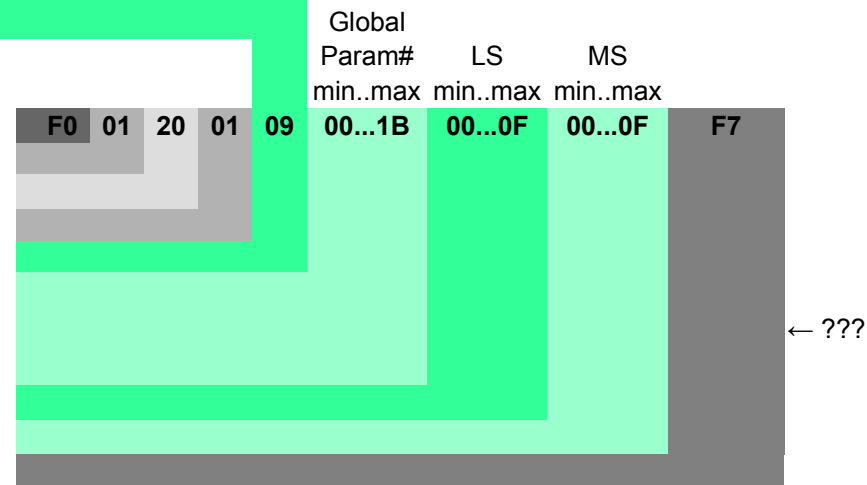
This message is ignored if the synth is in Program mode

Status	Description
1111 0000	System Exclusive (SysEx)
0000 0001	DSI ID
0010 0000	Evolver ID
0000 0001	File Version
0010 1010	Combo Parameter
0vvv vvvv	Combo Parameter number 0 – 79. See table on page 64.
0000 vvvv	Parameter value, LS Nibble
0000 vvvv	Parameter value, MS Nibble
1111 0111	End of Exclusive (EOX)



Global Parameters

Status	Description
1111 0000	System Exclusive (SysEx)
0000 0001	DSI ID
0010 0000	Evolver ID
0000 0001	File Version
0000 1001	Global Parameter
000v vvvv	Global Parameter Number 0 – 27. Global Parameters are listed on page 62. Note that some parameter numbers are NOT used; to maintain compatibility with Evolvers.
0000 vvvv	Parameter value, LS Nibble
0000 vvvv	Parameter value, MS Nibble
1111 0111	End of Exclusive (EOX)



Request Program Dump

Status	Description						Bank# min..max	Progrm# min..max	
1111 0000	System Exclusive (SysEx)	F0	01	20	01	05	00...03	00...7F	F7
0000 0001	DSI ID								
0010 0000	Evolver ID								
0000 0001	File Version								
0000 0101	Request Program Transmit								
0000 00vv	Bank Number, 0 - 3								
0vvv vvvv	Program Number, 0 - 127								
1111 0111	End of Exclusive (EOX)								

The Poly Evolver will respond by sending out the Program Data in the format described in the Program Data Dump on page 58. It also sends a Program Name Dump message (also on page 58) after the Program dump. This makes it a complete Program dump while maintaining compatibility with Evolvers.

Request Program Edit Buffer Dump

Status	Description						
1111 0000	System Exclusive (SysEx)	F0	01	20	01	06	F7
0000 0001	DSI ID						
0010 0000	Evolver ID						
0000 0001	File Version						
0000 0110	Request Program Edit Buffer Transmit						
1111 0111	End of Exclusive (EOX)						

Evolver will respond by sending out the current Program edit buffer in the format described in the Edit Buffer Dump on page 59

Request Waveshape Dump

Status	Description	
1111 0000	System Exclusive (SysEx)	F0 01 20 01 0B 00...7F F7
0000 0001	DSI ID	
0010 0000	Evolver ID	
0000 0001	File Version	
0000 1011	Request Waveshape Transmit	
0vvv vvvv	Waveshape number, 0 - 127	
1111 0111	End of Exclusive (EOX)	

Evolver will respond by sending out the requested Waveshape data, in the format described in the Waveshape Data Dump on page 59.

Request Combo Dump

Status	Description	
1111 0000	System Exclusive (SysEx)	F0 01 20 01 21 00...02 00...7F F7
0000 0001	DSI ID	
0010 0000	Evolver ID	
0000 0001	File Version	
0010 0001	Request Combo Transmit	
0000 00vv	Bank Number, 0 - 2	
0vvv vvvv	Program Number, 0 - 127	
1111 0111	End of Exclusive (EOX)	

Evolver will respond by sending out the Combo Data in the format described in the Combo Data Dump on page 58.

Request Combo Edit Buffer Dump

Status	Description	
1111 0000	System Exclusive (SysEx)	F0 01 20 01 38 F7
0000 0001	DSI ID	
0010 0000	Evolver ID	
0000 0001	File Version	
0011 1000	Request Combo Edit Buffer Transmit	
1111 0111	End of Exclusive (EOX)	

Evolver will respond by sending out the current edit buffer in the format described in the Combo Edit Buffer Dump on page 59

Request Global Parameter Dump

Status	Description	
1111 0000	System Exclusive (SysEx)	F0 01 20 01 0E F7
0000 0001	DSI ID	
0010 0000	Evolver ID	
0000 0001	File Version	
0000 1110	Request Global Parameter Transmit	
1111 0111	End of Exclusive (EOX)	

Evolver will respond by sending out the current edit buffer in the format described in the Global Parameter Dump on page 58

Program Data Dump

Status	Description	F0	01	20	01	02	Bank# min...max	Prog# min...max	Packed MS-bits
1111 0000	System Exclusive (SysEx)						00...03	00...7F	00...7F
0000 0001	DSI ID								
0010 0000	Evolver ID								
0000 0001	File Version								
0000 0010	Program Data								
0000 00vv	Bank Number, 0 - 3								
0vvv vvvv	Program Number, 0 - 127								
0vvv vvvv	220 bytes in "packed MS bit" format (see page 60 of manual.). Includes 128 bytes of Program parameters and 64 bytes of Sequence data.								
1111 0111	End of Exclusive (EOX)								

Program Name Data Dump

Status	Description	Bank# min..max	Prog# min..max	Ascii# min..max
1111 0000	System Exclusive (SysEx)			
0000 0001	DSI ID			
0010 0000	Evolver ID			
0000 0001	File Version			
0001 0001	Program Name Data			
0000 00vv	Bank Number, 0 - 3			
0vvv vv vv	Program Number, 0 - 127			
0vvv vv vv	16 name data bytes. Note that the Poly Evolver stores the basic 7 bit data. The assumption is that the data is ACSCII			
1111 0111	End of Exclusive (EOX)			

Combo Data Dump

Status	Description					Bank# min..max	Combo# min..max	Packed MS-bits	
1111 0000	System Exclusive (SysEx)	F0	01	20	01	22	00...02	00...7F	00...7F
0000 0001	DSI ID								F7
0010 0000	Evolver ID								
0000 0001	File Version								
0010 0010	Combo Data								
0000 00vv	Bank Number, 0 - 2								
0vvv vv vv	Combo Number, 0 - 127								
0vvv vv vv	92 bytes in "packed MS bit" format (see page 60 of manual.) = 80 bytes of Combo data								
1111 0111	End of Exclusive (EOX)								

Program Edit Buffer Data Dump

Status	Description					Packed MS-bits	
1111 0000	System Exclusive (SysEx)	F0	01	20	01	03	00...7F
0000 0001	DSI ID						F7
0010 0000	Evolver ID						
0000 0001	File Version						
0000 0011	Edit Buffer Data						
0vvv vv vv	220 bytes in "packed MS bit" format (see page 60 of manual.). Includes 128 bytes of Program parameters and 64 bytes of Sequence data.						
1111 0111	End of Exclusive (EOX)						

Combo Edit Buffer Data Dump

Status	Description					Packed MS-bits	
1111 0000	System Exclusive (SysEx)	F0	01	20	01	37	00...7F
0000 0001	DSI ID						
0010 0000	Evolver ID						
0000 0001	File Version						
0011 0111	Edit Buffer Data						
0vvv vvvv	220 bytes in “packed MS bit” format (see page 60 of manual.). Includes 128 bytes of Program parameters and 64 bytes of Sequence data.						
1111 0111	End of Exclusive (EOX)						

Global Parameters Data Dump

Status	Description						
1111 0000	System Exclusive (SysEx)	F0	01	20	01	0F	00...7F
0000 0001	DSI ID						
0010 0000	Evolver ID						
0000 0001	File Version						
0000 1111	Main Parameter Data						
0vvv vvvv	34 nibbles (LS then MS) for 27 Global parameters. Global Parameters are listed starting on page 62.						
1111 0111	End of Exclusive (EOX)						

← ???

Waveshape Data Dump

Status	Description	
1111 0000	System Exclusive (SysEx)	F0 01 20 01 0A 00...7F 00...7F F7
0000 0001	DSI ID	
0010 0000	Evolver ID	
0000 0001	File Version	
0000 1010	Waveshape Data	
0vvv vvvv	Waveshape number, 0 – 127, corresponds to Waveshapes 1 – 128. Only Waveshapes 96 – 127 can be sent and saved to Evolver user programmable-waveshape; others will be ignored.	
0vvv vvvv	293 bytes in “packed MS bit” format (see “Packed Data Format”, page 60) The 293 bytes = 256 data bytes, in the format of LS byte / MS byte, for the 128 16-bit words that make up a waveshape. The ROM Waveshapes are 12 bit two’s complement (to match the VS), but the User Waveshapes (97 – 128) can be a full 16 bits.	
1111 0111	End of Exclusive (EOX)	

Reset Switch

Status	Description	
1111 0000	System Exclusive (SysEx)	F0 01 20 01 04 F7
0000 0001	DSI ID	
0010 0000	Evolver ID	
0000 0001	File Version	
0000 0100	Reset Switch	
1111 0111	End of Exclusive (EOX)	

Only sent when Poly Chain is on and MIDI clock is set to Out.

Select Program Mode

Status	Description	
1111 0000	System Exclusive (SysEx)	F0 01 20 01 30 F7
0000 0001	DSI ID	
0010 0000	Evolver ID	
0000 0001	File Version	
0011 0000	Select Program Mode	
1111 0111	End of Exclusive (EOX)	

Select Combo Mode

Status	Description	
1111 0000	System Exclusive (SysEx)	F0 01 20 01 31 F7
0000 0001	DSI ID	
0010 0000	Evolver ID	
0000 0001	File Version	
0011 0001	Select Combo Mode	
1111 0111	End of Exclusive (EOX)	