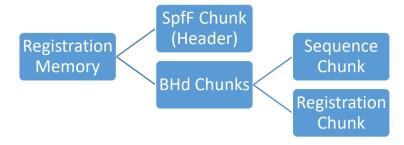
# Structure Registration Memory (Tyros 3)

### 1 STRUCTURE



# 2 SpfF Chunk (Header)

• SpfF chunk: 22 bytes

53 70 66 46	SpfF (ASCII coded)
00 10	number of following data bytes in this chunk
OC 12	
52 47 53 54	RGST (ASCII coded)
00 02	could be: (according to SysEx messages)
	Sub-ID #2 = General MIDI Off
	type 1
	Maj 7
	Internal Clock Substatus
	Lyrics Indication On/Off
00 02	
00 00 03 66	number of bytes in the whole document;
	here: 870 bytes
00 70	

## 3 BHD CHUNKS (SEQUENCE OR REGISTRATION)

- Sequence chunk: 42 bytes
- thus: SpfF and sequence chunk take up 64 bytes (bytes 0x000 to 0x030)

42 48 64	BHd (ASCII coded)
00 / 01	type: Registration or Sequence
00 24	number of bytes in this chunk 752
	Data

#### 3.1 ... DATA FOR SEQUENCE

Sequence occurs only one time in the whole file

FF	- all data bytes filled up with FF: Registration
FF	Sequence disabled → end byte doesn't
FF FF FF FF	matter
	- last byte: code for Sequence End
	→ 00: Sequence End Stop
	→ 01: Sequence End Top
	→ 02: Sequence End Next Bank

## 3.2 ... DATA FOR REGISTRATION (GPM)

#### 3.2.1 GPm Header

47 50 6D	GPm (ASCII coded)
ОВ	type
<b>00 2A</b> (42 Bytes following)	number of following data bytes in this chunk

#### 3.2.2 GPm Data

#### Drehregler:

- Tyros: -64 bis 63

Dezimal: 0 bis 127 (Mitte: 64)Hex: 00 bis 7F (Mitte: 40)

Funktion	Data- Byte	Wertebereich	Erklärung bzw. Wertbereich am Tyros
		Title 01	
Registration name	1	ASCII coded	
	<u> </u>	02	
	1	7F	02 bei Song Volumeänderung (von 52 auf 127) 04 bei Style Brightness Änderung
	2	03	7F bei Style Brightness Änderung
	3	04	
	4	02	7F bei Song Volumeänderung /von 52 auf 51 und von 52 auf 127) 7F if User Type DSP1
	5	06	
	6	06	
	7	07	
	8	02	
	9	05	
	10	06	
		Song 04	
Volume	1	00 - 7F	0 - 127
Channel 1 off / on	2	01/02	off / on
Channel 2 off / on	3	01/02	off / on
Channel 3 off / on	4	01/02	off / on
Channel 4 off / on	5	01 / 02	off / on
Channel 5 off / on	6	01 / 02	off / on
Channel 6 off / on	7	01 / 02	off / on
Channel 7 off / on	8	01 / 02	off / on
Channel 8 off / on	9	01 / 02	off / on
Channel 9 off / on	10	01 / 02	off / on
Channel 10 off / on	11	01/02	off / on
Channel 11 off / on	12	01/02	off / on
Channel 12 off / on	13	01/02	off / on
Channel 13 off / on	2	01 / 02	off / on
Channel 14 off / on	2	01/02	off / on
Channel 15 off / on	2	01/02	off / on
Channel 16 off / on	2	01 / 02	off / on

18 F0				
Song 05				
	1			
	2			
Dateipfad	ab 3	43 3A 2F 2E 4D 49 44	C:/MID	
	·	Standard Style 07		
	1			
	2			
	3			
Style-Part	4	00, 01, 02 (03) 08, 09, 0A, 0B 10, 11, 12, 13 18 20, 21, 22 (23)	Intro 1, Intro 2, Intro 3 (Intro 4) Main A, Main B, Main C, Main D A-Fill, B-Fill, C-Fill, D-Fill Break Fill Ending 1, Ending 2, Ending 3 (23)	
ACMP an / aus	5	7F / 00	an / aus	
	6			
Style-Nummer	7		36 (90's Disco)	
Style-Nummer wiederholt	8			
Fingering Type	9		01: Single Finger 02: Multi Finger 03: Al Fingered 04: Fingered 06: Fingered On Bass 07: Full Keyboard 0C: Al Full Keyboard	
Style-Part	10	08, 09, 0A, 0B	A, B, C, D	
Sync Start	11	7F / 00	ein / aus	
Sync Stop	12	7F / 00	ein / aus	
	13			
	14			
	15			
		Style Attributes 08		
Volume	1	00 -7F	0 - 127	
	2			
	3			
	4			
Reverb	5	00 - 7F	0 - 127	
Chorus	6	00 - 7F	0 - 127	
Channel on / off	8	00 - FF	see Appendix → Style Channel Numbers e. g.: 00: all off, FF: all on	
	9			
	10			
	11			
Volume Change	12	00 / FF	00: standard values FF: changed values	
Volume RHY1	13	00 - 7F	-64 - +63	
Volume RHY2	14	00 - 7F	-64 - +63	
Volume BASS	15	00 - 7F	-64 - +63	
Volume CHD1	16	00 - 7F	-64 - +63	
Volume CHD2	17	00 - 7F	-64 - +63	
Volume PAD	18	00 - 7F	-64 - +63	

3

Volume PHR2         20         00 - 7F         -64 - +63           Panpot Change         21         00 / FF         00: standard values           Panpot RHY1         22         00 - 7F         -64 - +63           Panpot RHY1         23         00 - 7F         -64 - +63           Panpot BASS         24         00 - 7F         -64 - +63           Panpot CHD1         25         00 - 7F         -64 - +63           Panpot PAD         27         00 - 7F         -64 - +63           Panpot PHR1         28         00 - 7F         -64 - +63           Panpot PHR1         28         00 - 7F         -64 - +63           Panpot PHR2         29         00 - 7F         -64 - +63           Reverb Change         30         00 / FF         -64 - +63           Reverb RHY1         31         00 - 7F         -64 - +63           Reverb RHY2         32         00 - 7F         -64 - +63           Reverb RHY2         32         00 - 7F         -64 - +63           Reverb DAD         36         00 - 7F         -64 - +63           Reverb PHR1         37         00 - 7F         -64 - +63           Reverb PHR2         38         00 - 7F         -64 - +63	Volume PHR1	19	00 - 7F	-64 - +63
Panpot Change         21         00 / FF         FF: Changed values           Panpot RHY1         22         00 - 7F         -64 + 63           Panpot RHY2         23         00 - 7F         -64 + 63           Panpot RMSS         24         00 - 7F         -64 + 63           Panpot CHD1         25         00 - 7F         -64 + 63           Panpot CHD2         26         00 - 7F         -64 + 63           Panpot PRD         27         00 - 7F         -64 + 63           Panpot PHR1         28         00 - 7F         -64 + 63           Panpot PHR2         29         00 - 7F         -64 + 63           Panpot PHR2         29         00 - 7F         -64 + 63           Reverb Change         30         00 / FF         -64 + 63           Reverb Change         30         00 / FF         -64 + 63           Reverb RHY1         31         00 - 7F         -64 + 63           Reverb RHY2         32         00 - 7F         -64 + 63           Reverb RHY2         33         00 - 7F         -64 + 63           Reverb PAD         36         00 - 7F         -64 + 63           Reverb PAD         36         00 - 7F         -64 + 63				
Panpot RhYI				
Panpot RHY1         22         00 - 7F         -64 - 63           Panpot RHY2         23         00 - 7F         -64 - 83           Panpot BASS         24         00 - 7F         -64 - 63           Panpot CHD1         25         00 - 7F         -64 - 63           Panpot CHD2         26         00 - 7F         -64 - 63           Panpot PHRD         27         00 - 7F         -64 - 63           Panpot PHR1         28         00 - 7F         -64 - 63           Panpot PHR2         29         00 - 7F         -64 - 63           Rever Change         30         00 / FF         -64 - 63           Rever Change         30         00 / FF         -64 - 63           Rever BHY1         31         00 - 7F         -64 - 63           Rever BHY2         32         00 - 7F         -64 - 63           Rever BASS         33         00 - 7F         -64 - 63           Rever DHD1         34         00 - 7F         -64 - 63           Rever DHD2         35         00 - 7F         -64 - 63           Rever DHR1         37         00 - 7F         -64 - 63           Rever DHR2         38         00 - 7F         -64 - 63           Choru	Panpot Change	21	00 / FF	
Panpot RHY2         23         00 - 7F         -64 + 63           Panpot BASS         24         00 - 7F         -64 + 63           Panpot CHD1         25         00 - 7F         -64 + 63           Panpot CHD2         26         00 - 7F         -64 + 63           Panpot PAD         27         00 - 7F         -64 + 63           Panpot PHR1         28         00 - 7F         -64 + 63           Panpot PHR2         29         00 - 7F         -64 + 63           Reverb Change         30         00 / FF         -64 + 63           Reverb RHY1         31         00 - 7F         -64 + 63           Reverb RHY2         32         00 - 7F         -64 + 63           Reverb BASS         33         00 - 7F         -64 + 63           Reverb BASS         33         00 - 7F         -64 + 63           Reverb PAD         35         00 - 7F         -64 + 63           Reverb PAD         36         00 - 7F         -64 + 63           Reverb PHR1         37         00 - 7F         -64 + 63           Reverb PAD         38         00 - 7F         -64 + 63           Chorus Change         39         00 / FF         -64 + 63	Pannot RHY1	22	00 - 7F	
Panpot BASS         24         00 - 7F         -64 - +63           Panpot CHD1         25         00 - 7F         -64 - +63           Panpot PAD         27         00 - 7F         -64 - +63           Panpot PAD         27         00 - 7F         -64 - +63           Panpot PHR1         28         00 - 7F         -64 - +63           Panpot PHR2         29         00 - 7F         -64 - +63           Reverb Change         30         00 / FF         -64 - +63           Reverb RHY1         31         00 - 7F         -64 - +63           Reverb RHY2         32         00 - 7F         -64 - +63           Reverb RHY2         32         00 - 7F         -64 - +63           Reverb BASS         33         00 - 7F         -64 - +63           Reverb DAD         36         00 - 7F         -64 - +63           Reverb PAD         36         00 - 7F         -64 - +63           Reverb PHR1         37         00 - 7F         -64 - +63           Reverb PHR2         38         00 - 7F         -64 - +63           Chorus Change         39         00 / FF         -64 - +63           Chorus RHY2         41         00 - 7F         -64 - +63	· · · · · · · · · · · · · · · · · · ·			
Panpot CHD1         25         00 - 7F         -64 - +63           Panpot CHD2         26         00 - 7F         -64 - +63           Panpot PAD         27         00 - 7F         -64 - +63           Panpot PHR1         28         00 - 7F         -64 - +63           Panpot PHR2         29         00 - 7F         -64 - +63           Reverb Change         30         00 / FF         -64 - +63           Reverb RHY1         31         00 - 7F         -64 - +63           Reverb RHY2         32         00 - 7F         -64 - +63           Reverb BASS         33         00 - 7F         -64 - +63           Reverb CHD1         34         00 - 7F         -64 - +63           Reverb DHD2         35         00 - 7F         -64 - +63           Reverb PHR1         37         00 - 7F         -64 - +63           Reverb PHR2         38         00 - 7F         -64 - +63           Reverb PHR2         38         00 - 7F         -64 - +63           Chorus Change         39         00 / FF         -64 - +63           Chorus RHY1         40         00 - 7F         -64 - +63           Chorus RHY2         41         00 - 7F         -64 - +63	· · · · · · · · · · · · · · · · · · ·			
Panpot CHD2         26         00 - 7F         -64 - +63           Panpot PAD         27         00 - 7F         -64 - +63           Panpot PHR1         28         00 - 7F         -64 - +63           Panpot PHR2         29         00 - 7F         -64 - +63           Reverb Change         30         00 / FF         -64 - +63           Reverb RHY1         31         00 - 7F         -64 - +63           Reverb RHY2         32         00 - 7F         -64 - +63           Reverb BASS         33         00 - 7F         -64 - +63           Reverb CHD1         34         00 - 7F         -64 - +63           Reverb DAD         36         00 - 7F         -64 - +63           Reverb DAD         36         00 - 7F         -64 - +63           Reverb PHR1         37         00 - 7F         -64 - +63           Reverb PHR2         38         00 - 7F         -64 - +63           Reverb PHR1         37         00 - 7F         -64 - +63           Reverb PHR2         38         00 - 7F         -64 - +63           Chorus Change         39         00 / FF         -64 - +63           Chorus RHY1         40         00 - 7F         -64 - +63				
Panpot PAD         27         00 - 7F         -64 - +63           Panpot PHR1         28         00 - 7F         -64 - +63           Panpot PHR2         29         00 - 7F         -64 - +63           Reverb Change         30         00 / FF         00: standard values FF: changed values           Reverb RHY1         31         00 - 7F         -64 - +63           Reverb RHY2         32         00 - 7F         -64 - +63           Reverb BASS         33         00 - 7F         -64 - +63           Reverb CHD1         34         00 - 7F         -64 - +63           Reverb CHD2         35         00 - 7F         -64 - +63           Reverb PAD         36         00 - 7F         -64 - +63           Reverb PHR2         38         00 - 7F         -64 - +63           Reverb PHR2         38         00 - 7F         -64 - +63           Chorus Change         39         00 / FF         FF: changed values           Chorus Change         39         00 / FF         -64 - +63           Chorus RHY1         40         00 - 7F         -64 - +63           Chorus RHY2         41         00 - 7F         -64 - +63           Chorus RHY2         41         00 - 7F				
Panpot PHR1         28         00 - 7F         -64 - 63           Panpot PHR2         29         00 - 7F         -64 - 63           Reverb Change         30         00 / FF         00: standard values           Reverb RHY1         31         00 - 7F         -64 - 463           Reverb BASS         33         00 - 7F         -64 - 463           Reverb CHD1         34         00 - 7F         -64 - 463           Reverb DHD2         35         00 - 7F         -64 - 463           Reverb PAD         36         00 - 7F         -64 - 463           Reverb PHR1         37         00 - 7F         -64 - 463           Reverb PHR2         38         00 - 7F         -64 - 463           Reverb PHR2         38         00 - 7F         -64 - 463           Chorus Change         39         00 / FF         00: standard values           FF: changed values         FF: changed values           Chorus RHY1         40         00 - 7F         -64 - 463           Chorus RHY2         41         00 - 7F         -64 - 463           Chorus CHD1         43         00 - 7F         -64 - 463           Chorus CHD2         44         00 - 7F         -64 - 463	<b>'</b>	_		
Panpot PHR2         29         00 - 7F         -64 - +63           Reverb Change         30         00 / FF         FF: changed values           Reverb RHY1         31         00 - 7F         -64 - +63           Reverb RHY2         32         00 - 7F         -64 - +63           Reverb BASS         33         00 - 7F         -64 - +63           Reverb CHD1         34         00 - 7F         -64 - +63           Reverb CHD2         35         00 - 7F         -64 - +63           Reverb PAD         36         00 - 7F         -64 - +63           Reverb PHR1         37         00 - 7F         -64 - +63           Reverb PHR2         38         00 - 7F         -64 - +63           Chorus Change         39         00 / FF         -64 - +63           Chorus Change         39         00 / FF         -64 - +63           Chorus RHY1         40         00 - 7F         -64 - +63           Chorus RHY2         41         00 - 7F         -64 - +63           Chorus RHY3         41         00 - 7F         -64 - +63           Chorus CHD2         44         00 - 7F         -64 - +63           Chorus CHD2         44         00 - 7F         -64 - +63	•			
Reverb Change         30         00 / FF         00: standard values           Reverb RHY1         31         00 - 7F         -64 - +63           Reverb RHY2         32         00 - 7F         -64 - +63           Reverb BASS         33         00 - 7F         -64 - +63           Reverb CHD1         34         00 - 7F         -64 - +63           Reverb CHD2         35         00 - 7F         -64 - +63           Reverb PAD         36         00 - 7F         -64 - +63           Reverb PHR1         37         00 - 7F         -64 - +63           Reverb PHR2         38         00 - 7F         -64 - +63           Reverb PHR2         38         00 - 7F         -64 - +63           Chorus Change         39         00 / FF         -00: standard values           FF: changed values         Chorus Change         -64 - +63         -64 - +63           Chorus RHY1         40         00 - 7F         -64 - +63         -64 - +63           Chorus RHY2         41         00 - 7F         -64 - +63         -64 - +63           Chorus CHD1         43         00 - 7F         -64 - +63         -64 - +63           Chorus PHR2         47         00 - 7F         -64 - +63         <		_		
Reverb RHY1         31         00 - 7F         -64 - +63           Reverb RHY2         32         00 - 7F         -64 - +63           Reverb BASS         33         00 - 7F         -64 - +63           Reverb CHD1         34         00 - 7F         -64 - +63           Reverb CHD2         35         00 - 7F         -64 - +63           Reverb DAD         36         00 - 7F         -64 - +63           Reverb PHR1         37         00 - 7F         -64 - +63           Reverb PHR2         38         00 - 7F         -64 - +63           Chorus Change         39         00 / FF         -64 - +63           Chorus Change         39         00 / FF         -64 - +63           Chorus Change         40         00 - 7F         -64 - +63           Chorus RHY1         40         00 - 7F         -64 - +63           Chorus RHY2         41         00 - 7F         -64 - +63           Chorus RHY2         41         00 - 7F         -64 - +63           Chorus RHY2         41         00 - 7F         -64 - +63           Chorus PAD         45         00 - 7F         -64 - +63           Chorus PAD         45         00 - 7F         -64 - +63	Paliput Prinz	29	00 - 7F	
Reverb RHY2         32         00 - 7F         -64 - +63           Reverb BASS         33         00 - 7F         -64 - +63           Reverb CHD1         34         00 - 7F         -64 - +63           Reverb CHD2         35         00 - 7F         -64 - +63           Reverb PAD         36         00 - 7F         -64 - +63           Reverb PHR1         37         00 - 7F         -64 - +63           Reverb PHR2         38         00 - 7F         -64 - +63           Chorus Change         39         00 / FF         -64 - +63           Chorus Change         39         00 / FF         -64 - +63           Chorus Change         40         00 - 7F         -64 - +63           Chorus RHY1         40         00 - 7F         -64 - +63           Chorus RHY2         41         00 - 7F         -64 - +63           Chorus CHD1         43         00 - 7F         -64 - +63           Chorus CHD2         44         00 - 7F         -64 - +63           Chorus CHD2         44         00 - 7F         -64 - +63           Chorus PHR1         46         00 - 7F         -64 - +63           Chorus PHR2         47         00 - 7F         -64 - +63	Reverb Change	30	00 / FF	
Reverb BASS         33         00 - 7F         -64 - +63           Reverb CHD1         34         00 - 7F         -64 - +63           Reverb CHD2         35         00 - 7F         -64 - +63           Reverb PAD         36         00 - 7F         -64 - +63           Reverb PHR1         37         00 - 7F         -64 - +63           Reverb PHR2         38         00 - 7F         -64 - +63           Chorus Change         39         00 / FF         -64 - +63           Chorus Change         39         00 / FF         -64 - +63           Chorus Change         40         00 - 7F         -64 - +63           Chorus RHY1         40         00 - 7F         -64 - +63           Chorus RHY2         41         00 - 7F         -64 - +63           Chorus CHD1         43         00 - 7F         -64 - +63           Chorus CHD2         44         00 - 7F         -64 - +63           Chorus PAD         45         00 - 7F         -64 - +63           Chorus PHR1         46         00 - 7F         -64 - +63           Chorus PHR2         47         00 - 7F         -64 - +63           DSP1 Active (see 1D)         48         00 / FF         off / on	Reverb RHY1	31	00 - 7F	-64 - +63
Reverb CHD1         34         00 - 7F         -64 - +63           Reverb CHD2         35         00 - 7F         -64 - +63           Reverb PAD         36         00 - 7F         -64 - +63           Reverb PHR1         37         00 - 7F         -64 - +63           Reverb PHR2         38         00 - 7F         -64 - +63           Chorus Change         39         00 / FF         00: standard values FF: changed values FF: changed values           Chorus RHY1         40         00 - 7F         -64 - +63           Chorus RHY2         41         00 - 7F         -64 - +63           Chorus RHY2         41         00 - 7F         -64 - +63           Chorus CHD1         43         00 - 7F         -64 - +63           Chorus CHD2         44         00 - 7F         -64 - +63           Chorus PAD         45         00 - 7F         -64 - +63           Chorus PHR1         46         00 - 7F         -64 - +63           Chorus PHR2         47         00 - 7F         -64 - +63           Chorus PHR2         47         00 - 7F         -64 - +63           DSP1 Active (see 1D)         48         00 / FF         -64 - +63           Style (see 1D)         53	Reverb RHY2	32	00 - 7F	-64 - +63
Reverb CHD2         35         00 - 7F         -64 - +63           Reverb PAD         36         00 - 7F         -64 - +63           Reverb PHR1         37         00 - 7F         -64 - +63           Reverb PHR2         38         00 - 7F         -64 - +63           Chorus Change         39         00 / FF         00: standard values           FF: changed values         Chorus RHY1         40         00 - 7F         -64 - +63           Chorus RHY2         41         00 - 7F         -64 - +63         -64 - +63           Chorus RHY2         41         00 - 7F         -64 - +63         -64 - +63           Chorus CHD1         43         00 - 7F         -64 - +63         -64 - +63           Chorus CHD2         44         00 - 7F         -64 - +63         -64 - +63           Chorus PAD         45         00 - 7F         -64 - +63         -64 - +63           Chorus PHR1         46         00 - 7F         -64 - +63         -64 - +63           Chorus PHR2         47         00 - 7F         -64 - +63         -64 - +63           Chorus PHR2         47         00 - 7F         -64 - +63         -64 - +63           DSP1 Active (see 1D)         48         00 / FF <t< td=""><td>Reverb BASS</td><td>33</td><td>00 - 7F</td><td>-64 - +63</td></t<>	Reverb BASS	33	00 - 7F	-64 - +63
Reverb PAD         36         00 - 7F         -64 - +63           Reverb PHR1         37         00 - 7F         -64 - +63           Reverb PHR2         38         00 - 7F         -64 - +63           Chorus Change         39         00 / FF         -64 - +63           Chorus RHY1         40         00 - 7F         -64 - +63           Chorus RHY2         41         00 - 7F         -64 - +63           Chorus BASS         42         00 - 7F         -64 - +63           Chorus CHD1         43         00 - 7F         -64 - +63           Chorus CHD2         44         00 - 7F         -64 - +63           Chorus PAD         45         00 - 7F         -64 - +63           Chorus PHR1         46         00 - 7F         -64 - +63           Chorus PHR2         47         00 - 7F         -64 - +63           Chorus PHR2         47         00 - 7F         -64 - +63           DSP1 Active (see 1D)         48         00 / FF         off / on           51         00	Reverb CHD1	34	00 - 7F	-64 - +63
Reverb PHR1         37         00 - 7F         -64 - +63           Reverb PHR2         38         00 - 7F         -64 - +63           Chorus Change         39         00 / FF         -64 - +63           Chorus RHY1         40         00 - 7F         -64 - +63           Chorus RHY2         41         00 - 7F         -64 - +63           Chorus BASS         42         00 - 7F         -64 - +63           Chorus CHD1         43         00 - 7F         -64 - +63           Chorus CHD2         44         00 - 7F         -64 - +63           Chorus PAD         45         00 - 7F         -64 - +63           Chorus PHR1         46         00 - 7F         -64 - +63           Chorus PHR2         47         00 - 7F         -64 - +63           Chorus PHR2         47         00 - 7F         -64 - +63           Chorus PHR2         47         00 - 7F         -64 - +63           DSP1 Active (see 1D)         48         00 / FF         off / on           S5         0         0         -           S5         0         0         -           S5         0         0         -           S5         0         -	Reverb CHD2	35	00 - 7F	-64 - +63
Reverb PHR2         38         00 - 7F         -64 - +63           Chorus Change         39         00 / FF         00: standard values FF: changed values           Chorus RHY1         40         00 - 7F         -64 - +63           Chorus RHY2         41         00 - 7F         -64 - +63           Chorus BASS         42         00 - 7F         -64 - +63           Chorus CHD1         43         00 - 7F         -64 - +63           Chorus PAD         45         00 - 7F         -64 - +63           Chorus PHR1         46         00 - 7F         -64 - +63           Chorus PHR2         47         00 - 7F         -64 - +63           Chorus PHR2         47         00 - 7F         -64 - +63           Chorus PHR2         47         00 - 7F         -64 - +63           DSP1 Active (see 1D)         48         00 / FF         off / on           50         00	Reverb PAD	36	00 - 7F	-64 - +63
Reverb PHR2         38         00 - 7F         -64 - +63           Chorus Change         39         00 / FF         00: standard values FF: changed values           Chorus RHY1         40         00 - 7F         -64 - +63           Chorus RHY2         41         00 - 7F         -64 - +63           Chorus BASS         42         00 - 7F         -64 - +63           Chorus CHD1         43         00 - 7F         -64 - +63           Chorus PAD         45         00 - 7F         -64 - +63           Chorus PHR1         46         00 - 7F         -64 - +63           Chorus PHR2         47         00 - 7F         -64 - +63           Chorus PHR2         47         00 - 7F         -64 - +63           Chorus PHR2         47         00 - 7F         -64 - +63           DSP1 Active (see 1D)         48         00 / FF         off / on           50         00	Reverb PHR1	37	00 - 7F	-64 - +63
Chorus Change         39         00 / FF         O0: standard values FF: changed values           Chorus RHY1         40         00 - 7F         -64 - +63           Chorus RHY2         41         00 - 7F         -64 - +63           Chorus RHSS         42         00 - 7F         -64 - +63           Chorus CHD1         43         00 - 7F         -64 - +63           Chorus PHD2         44         00 - 7F         -64 - +63           Chorus PHR1         46         00 - 7F         -64 - +63           Chorus PHR2         47         00 - 7F         -64 - +63           Chorus PHR2         47         00 - 7F         -64 - +63           Chorus PHR2         47         00 - 7F         -64 - +63           Chorus PHR2         47         00 - 7F         -64 - +63           DSP1 Active (see 1D)         48         00 / FF         off / on           S51         00	Reverb PHR2	_		
Chorus RHY1         40         00 - 7F         -64 - +63           Chorus RHY2         41         00 - 7F         -64 - +63           Chorus BASS         42         00 - 7F         -64 - +63           Chorus CHD1         43         00 - 7F         -64 - +63           Chorus CHD2         44         00 - 7F         -64 - +63           Chorus PAD         45         00 - 7F         -64 - +63           Chorus PHR1         46         00 - 7F         -64 - +63           Chorus PHR2         47         00 - 7F         -64 - +63           DSP1 Active (see 1D)         48         00 / FF         off / on           50         00         0         0           51         00         0         0           52         00         0         0           53         00         0         0           55         00         0         0           55         00         0         0           57         7F         0         0           57         7F         0         0           59         7F         0         0           60         7F         0         0 <td></td> <td></td> <td></td> <td>00: standard values</td>				00: standard values
Chorus RHY1         40         00 - 7F         -64 - +63           Chorus RHY2         41         00 - 7F         -64 - +63           Chorus BASS         42         00 - 7F         -64 - +63           Chorus CHD1         43         00 - 7F         -64 - +63           Chorus CHD2         44         00 - 7F         -64 - +63           Chorus PAD         45         00 - 7F         -64 - +63           Chorus PHR1         46         00 - 7F         -64 - +63           Chorus PHR2         47         00 - 7F         -64 - +63           Chorus PHR2         47         00 - 7F         -64 - +63           DSP1 Active (see 1D)         48         00 / FF         off / on           49         00         -64 - +63         -64 - +63           DSP1 Active (see 1D)         48         00 / FF         off / on           50         00	Chorus Change	39	00 / FF	
Chorus RHY2         41         00 - 7F         -64 - +63           Chorus BASS         42         00 - 7F         -64 - +63           Chorus CHD1         43         00 - 7F         -64 - +63           Chorus CHD2         44         00 - 7F         -64 - +63           Chorus PAD         45         00 - 7F         -64 - +63           Chorus PHR1         46         00 - 7F         -64 - +63           Chorus PHR2         47         00 - 7F         -64 - +63           DSP1 Active (see 1D)         48         00 / FF         off / on           May         00         -64 - +63         -64 - +63           DSP1 Active (see 1D)         48         00 / FF         off / on           May         00         -64 - +63         -64 - +63           DSP1 Active (see 1D)         48         00 / FF         off / on           May         00         -64 - +63         -64 - +63           DSP1 Active (see 1D)         48         00 / FF         off / on           May         00         -64 - +63         -64 - +63           DSP1 Active (see 1D)         49         00         -64 - +63           DSP2 Active (see 1D)         50         00         -64 - +63	Chorus RHY1	40	00 - 7F	
Chorus BASS         42         00 - 7F         -64 - +63           Chorus CHD1         43         00 - 7F         -64 - +63           Chorus CHD2         44         00 - 7F         -64 - +63           Chorus PAD         45         00 - 7F         -64 - +63           Chorus PHR1         46         00 - 7F         -64 - +63           Chorus PHR2         47         00 - 7F         -64 - +63           DSP1 Active (see 1D)         48         00 / FF         off / on           SDP1 Active (see 1D)         48         00 / FF         off / on           SDP1 Active (see 1D)         48         00 / FF         off / on           SDP1 Active (see 1D)         48         00 / FF         off / on           SDP1 Active (see 1D)         48         00 / FF         off / on           SDP1 Active (see 1D)         48         00 / FF         off / on           SDP1 Active (see 1D)         48         00 / FF         off / on           SDP1 Active (see 1D)         48         00 / FF         off / on           SDP1 Active (see 1D)         48         00 / FF         off / on           SDP1 Active (see 1D)         50         on         on         off / on           SDP1 Acti				
Chorus CHD1         43         00 - 7F         -64 - +63           Chorus CHD2         44         00 - 7F         -64 - +63           Chorus PAD         45         00 - 7F         -64 - +63           Chorus PHR1         46         00 - 7F         -64 - +63           Chorus PHR2         47         00 - 7F         -64 - +63           DSP1 Active (see 1D)         48         00 / FF         off / on           SDP1 Active (see 1D)         48         00 / FF         off / on           SDP1 Active (see 1D)         48         00 / FF         off / on           SDP1 Active (see 1D)         48         00 / FF         off / on           SDP1 Active (see 1D)         48         00 / FF         off / on           SDP1 Active (see 1D)         48         00 / FF         off / on           SDP1 Active (see 1D)         48         00 / FF         off / on           SDP1 Active (see 1D)         48         00 / FF         off / on           SDP1 Active (see 1D)         48         00 / FF         off / on           SDP1 Active (see 1D)         48         00 / FD         off / on           SDP1 Active (see 1D)         49         00         on         on           SDP1 Ac				
Chorus CHD2       44       00 - 7F       -64 - +63         Chorus PAD       45       00 - 7F       -64 - +63         Chorus PHR1       46       00 - 7F       -64 - +63         Chorus PHR2       47       00 - 7F       -64 - +63         DSP1 Active (see 1D)       48       00 / FF       off / on         50       00		-		
Chorus PAD       45       00 - 7F       -64 - +63         Chorus PHR1       46       00 - 7F       -64 - +63         Chorus PHR2       47       00 - 7F       -64 - +63         DSP1 Active (see 1D)       48       00 / FF       off / on         50       00       -64 - +63         50       00       -64 - +63         50       00       -64 - +63         50       00       -64 - +63         60       00       -64 - +63         61       50       00         62       7F       -64 - +63         63       7F       -64 - +63         64       7F       -64 - +63         60       00       -64 - +63         60       00       -64 - +63         60       00       -64 - +63         61       7F       -64 - +63         62       7F       -64 - +63         63       7F       -64 - +63         64       7F       -64 - +63         65       00, FD       Indicator? entscheidenden Einfluss auf Voices!!         Voice RHY1       66       00       MSB         Voice RHY1       67       72       LSB				
Chorus PHR1       46       00 - 7F       -64 - +63         Chorus PHR2       47       00 - 7F       -64 - +63         DSP1 Active (see 1D)       48       00 / FF       off / on         49       00       -64 - +63         50       00       -64 - +63         50       00       -64 - +63         50       00       -64 - +63         50       00       -64 - +63         50       00       -64 - +63         50       00       -64 - +63         50       00       -64 - +63         50       00       -64 - +63         50       00       -6463         51       00       -6463         52       00       -6463         55       00       -6463         57       7F       -6463         59       7F       -6463         60       7F       -6463         61       7F       -6463         64       7F       -6463         Style-Instrumente       65       00, FD       Indicator? entscheidenden Einfluss auf Voices!!         Voice RHY1       66       00       MSB     <				
Chorus PHR2         47         00 - 7F         -64 - +63           DSP1 Active (see 1D)         48         00 / FF         off / on           49         00				
DSP1 Active (see 1D)         48         00 / FF         off / on           49         00		_		
49				1 11
50       00         51       00         52       00         53       00         54       00         55       00         56       00         57       7F         58       7F         59       7F         60       7F         61       7F         62       7F         63       7F         Style-Instrumente       65       00, FD         66       00       MSB         Voice RHY1       66       00       MSB         Voice RHY1       68       19       PRG (PRG from Data List - 1!)	D31 17101170 (300 1D)		·	0117 011
51     00       52     00       53     00       54     00       55     00       56     00       57     7F       58     7F       59     7F       60     7F       61     7F       62     7F       63     7F       5tyle-Instrumente     65     00, FD     Indicator? entscheidenden Einfluss auf Voices!!       Voice RHY1     66     00     MSB       Voice RHY1     67     72     LSB       68     19     PRG (PRG from Data List - 1!)				
52       00         53       00         54       00         55       00         56       00         57       7F         58       7F         59       7F         60       7F         61       7F         62       7F         63       7F         64       7F         Style-Instrumente       65       00, FD         Indicator? entscheidenden Einfluss auf Voices!!         Voice RHY1       66       00       MSB         Voice RHY1       68       19       PRG (PRG from Data List - 1!)				
53       00         54       00         55       00         56       00         57       7F         58       7F         59       7F         60       7F         61       7F         62       7F         63       7F         64       7F         Style-Instrumente       65       00, FD         Indicator? entscheidenden Einfluss auf Voices!!         MSB         Voice RHY1       67       72         68       19       PRG (PRG from Data List - 1 !)				
54       00         55       00         56       00         57       7F         58       7F         59       7F         60       7F         61       7F         62       7F         63       7F         64       7F         Style-Instrumente       65       00, FD         Indicator? entscheidenden Einfluss auf Voices!!         MSB         Voice RHY1       67       72         68       19       PRG (PRG from Data List - 1!)		_		
55       00         56       00         57       7F         58       7F         59       7F         60       7F         61       7F         62       7F         63       7F         64       7F         Style-Instrumente       65       00, FD         Indicator? entscheidenden Einfluss auf Voices!!         Voice RHY1       66       00       MSB         Voice RHY1       67       72       LSB         68       19       PRG (PRG from Data List - 1!)				
56       00         57       7F         58       7F         59       7F         60       7F         61       7F         62       7F         63       7F         64       7F         Style-Instrumente       65       00, FD         Indicator? entscheidenden Einfluss auf Voices!!         66       00       MSB         Voice RHY1       67       72       LSB         68       19       PRG (PRG from Data List - 1!)				
57         7F           58         7F           59         7F           60         7F           61         7F           62         7F           63         7F           64         7F           Style-Instrumente         65         00, FD           Indicator? entscheidenden Einfluss auf Voices!!           66         00         MSB           Voice RHY1         67         72         LSB           68         19         PRG (PRG from Data List - 1!)				
58       7F         59       7F         60       7F         61       7F         62       7F         63       7F         64       7F         Style-Instrumente         65       00, FD         Indicator? entscheidenden Einfluss auf Voices!!         66       00         MSB         Voice RHY1       67         72       LSB         68       19         PRG (PRG from Data List - 1!)		-		
59       7F         60       7F         61       7F         62       7F         63       7F         64       7F         Style-Instrumente       65       00, FD       Indicator? entscheidenden Einfluss auf Voices!!         66       00       MSB         Voice RHY1       67       72       LSB         68       19       PRG (PRG from Data List - 1!)		-		
60       7F         61       7F         62       7F         63       7F         64       7F         Style-Instrumente       65       00, FD       Indicator? entscheidenden Einfluss auf Voices!!         66       00       MSB         Voice RHY1       67       72       LSB         68       19       PRG (PRG from Data List - 1!)				
61       7F         62       7F         63       7F         64       7F         Style-Instrumente       65       00, FD       Indicator? entscheidenden Einfluss auf Voices!!         66       00       MSB         Voice RHY1       67       72       LSB         68       19       PRG (PRG from Data List - 1!)				
62       7F         63       7F         64       7F         Style-Instrumente         65       00, FD         Indicator? entscheidenden Einfluss auf Voices!!         66       00         MSB         Voice RHY1       67         72       LSB         68       19         PRG (PRG from Data List - 1!)				
63       7F         64       7F         Style-Instrumente       65       00, FD       Indicator? entscheidenden Einfluss auf Voices!!         Voice RHY1       66       00       MSB         67       72       LSB         68       19       PRG (PRG from Data List - 1!)		-		
64         7F           Style-Instrumente         65         00, FD         Indicator? entscheidenden Einfluss auf Voices!!           Voice RHY1         66         00         MSB           67         72         LSB           68         19         PRG (PRG from Data List - 1!)		-		
Style-Instrumente         65         00, FD         Indicator? entscheidenden Einfluss auf Voices!!           Voice RHY1         66         00         MSB           67         72         LSB           68         19         PRG (PRG from Data List - 1!)		-		
Style-Instrumente         65         00, FD         Einfluss auf Voices!!           Voice RHY1         66         00         MSB           67         72         LSB           68         19         PRG (PRG from Data List - 1!)		04	11	Indicator2 entschoidenden
Voice RHY1         67         72         LSB           68         19         PRG (PRG from Data List - 1!)	Style-Instrumente	65	00, FD	
68 19 PRG (PRG from Data List - 1!)		66	00	MSB
	Voice RHY1	67	72	LSB
Voice RHY2 69 7F MSB		68	19	PRG (PRG from Data List - 1!)
	Voice RHY2	69	7F	MSB

	T		
	70	00	MSB
	71	59	PRG
	72	00	MSB
Voice BASS	73	73	LSB
	74	00	PRG
	75	68	MSB
Voice CHD1	76	04	LSB
	77	00	PRG
	78	68	MSB
Voice CHD2	79	00	LSB
	80	03	PRG
	81	68	MSB
Voice PAD	82	01	LSB
	83	02	PRG
	84	68	MSB
Voice PHR1	85	02	LSB
10.0011	86	00	PRG
	87	00	MSB
Voice PHR2	88	72	LSB
VOICE I TIME	89	00	PRG
Harmonic Content	83	00	00: standard values
Change	90	00 / FF	FF: changed values
Harmonic Content RHY1	91	00 - 7F	-64 - +63
Harmonic Content RHY2	92	00 - 7F	-64 - +63
Harmonic Content BASS	93	00 - 7F	-64 - +63
Harmonic Content CHD1	94	00 - 7F	-64 - +63
Harmonic Content CHD2	95	00 - 7F	-64 - +63
Harmonic Content PAD	96	00 - 7F	-64 - +63
Harmonic Content PHR1	97	00 - 7F	-64 - +63
Harmonic Content PHR2	98	00 - 7F	-64 - +63
Brightness Change	99	00 / FF	00: standard values FF: changed values
Brightness RHY1	100	00 - 7F	-64 - +63
Brightness RHY2	101	00 - 7F	-64 - +63
Brightness BASS	102	00 - 7F	-64 - +63
Brightness CHD1	103	00 - 7F	-64 - +63
Brightness CHD2 Brightness PAD	104	00 - 7F	-64 - +63
	105	00 - 7F	-64 - +63
Brightness PHR1	106	00 - 7F	-64 - +63
Brightness PHR2	107	00 - 7F	-64 - +63
EQ Low Change	108	00 / FF	00: standard values FF: changed values
EQ Low RHY1	109	00 - 7F	-64 - +63
EQ Low RHY2	110	00 - 7F	-64 - +63
EQ Low BASS	111	00 - 7F	-64 - +63
EQ Low CHD1	112	00 - 7F	-64 - +63
EQ Low CHD2	113	00 - 7F	-64 - +63
EQ Low PAD	114	00 - 7F	-64 - +63
EQ Low PHR1	115	00 - 7F	-64 - +63
EQ Low PHR2	116	00 - 7F	-64 - +63
EQ High Change	117	00 / FF	00: standard values FF: changed values
EQ High RHY1	118	00 - 7F	-64 - +63
		00 - 7F	
EQ High RHY2	119		-64 - +63
EQ High BASS	120	00 - 7F	-64 - +63

EQ High CHD1         121         00 - 7F         64 - 63           EQ High PAD         123         00 - 7F         -64 - 63           EQ High PHRD         123         00 - 7F         -64 - 63           EQ High PHR1         124         00 - 7F         -64 - 63           Voice global 0A           Voices 0B / 0F / 17 (13 Left)           Activier?         1         00 / 7F         aus / ein           MRSB         2         00				
EQ High PAD         123         00 - 7F         -64 - +63           EQ High PHR1         124         00 - 7F         -64 - +63           Voice global 0A           Voices OB / OF / 17 (13 Let)           Aktiviert?         1         00 / 7F         aus / ein           MSB         2         00         0           LSB         3         73 (Dez: 115)	EQ High CHD1	121	00 - 7F	-64 - +63
EQ High PHR1         124         00 - 7F         -64 - +63           Voice global 0A           Voice SB / OF / 17 (13 Left)           Aktiviert?         1         00 / 7F         aus / ein           MSB         2         00         1         0 - 127           LSB         3         73 (Dez: 115)         0 - 127           Programm         4         00         0 - 127           Volume         7         00 - 7F         0 - 127           Panpot         8         00 und 01 / 40 / 7F         links / mittig / rechts           60 - 7F         0 - 127           Panpot         8         00 und 01 / 40 / 7F         links / mittig / rechts           16 - 8         00 - 7F         0 - 127           Panpot         8         00 und 01 / 40 / 7F         links / mittig / rechts           16 - 8         00 - 7F         0 - 127           Panpot         11         00 - 7F         0 - 127           Brightness         13         00 - 7F         -64 + 63           Reverb         14         00 - 7F         0 - 127           Chorus         15         00 - 7F         -64 - + 63           18	EQ High CHD2	122	00 - 7F	-64 - +63
EQ High PHR2	EQ High PAD	123	00 - 7F	-64 - +63
Voice s   Voice   Se   Voice	EQ High PHR1	124	00 - 7F	-64 - +63
Notes of the property of the	EQ High PHR2	125	00 - 7F	-64 - +63
Aktiviert?         1         00 / 7F         aus / ein           MSB         2         00         ————————————————————————————————————			Voice global 0A	
Aktiviert?         1         00 / 7F         aus / ein           MSB         2         00         ————————————————————————————————————				
MSB				
LSB	Aktiviert?		00 / 7F	aus / ein
Programm         4         00           Portamento Time         5         00 - 7F         0 - 127           4         00         00 - 7F         0 - 127           Volume         7         00 - 7F         0 - 127           Panpot         8         00 und 01 / 40 / 7F         links / mittig / rechts           Mono         9/10         00 / 7F         aus / an           Harmonic Content         11         00 - 7F         -64 - 463           Brightness         13         00 - 7F         -64 - 463           Reverb         14         00 - 7F         0 - 127           Chorus         15         00 - 7F         0 - 127           Chorus         15         00 - 7F         0 - 127           16         17         -64 - 463         -64 - 463           18         19         -64 - 463         -64 - 463           EQ High         22         00 - 7F         -64 - 463         -64 - 463           23         24         -64 - 463         -64 - 463           24         25         -70 - 77         -64 - 463         -64 - 463           27         00 - 7F         -64 - 463         -64 - 463           28         29	MSB	2		
Portamento Time         5         00 - 7F         0 - 127           6         0         00 - 127           Panpot         8         00 und 01 / 40 / 7F links / mittig / rechts l63 - R63 (L63 = L64)           Mono         9/10         00 / 7F aus / an           Harmonic Content         11         00 - 7F aus / an           Harmonic Content         11         00 - 7F aus / an           Harmonic Content         12         -64 - +63           Brightness         13         00 - 7F aus / an           Reverb         14         00 - 7F aus / an           Chorus         15         00 - 7F aus / an           16         -17         -64 - +63           17         -12         -12           EQ Low         20         00 - 7F aus / an           EQ Low         20         00 - 7F aus / an           EQ High         22         00 - 7F aus / an           23         -64 - +63           24         -10           25         -10           Pitch Bend Range         26         00 - 0C aus / an           29         -10           30         -10           31         35 (62) / 3F (63) / 40 (64) / aus / an	LSB	3	73 (Dez: 115)	
Volume         7         00 - 7F         0 - 127           Panpot         8         00 und 01 / 40 / 7F (0 - 7F)         links / mittig / rechts (163 - R63 (163 = 164))           Mono         9/10         00 / 7F         aus / an           Harmonic Content         11         00 - 7F         -64 - +63           Brightness         13         00 - 7F         -64 - +63           Reverb         14         00 - 7F         0 - 127           Chorus         15         00 - 7F         0 - 127           16         17         18         19           EQ Low         20         00 - 7F         -64 - +63           21         21         19         19           EQ High         22         00 - 7F         -64 - +63           21         21         10         10           EQ High         22         00 - 7F         -64 - +63           23         24         10         10           25         Pitch Bend Range         26         00 - 0C         0 - 12           Tuning         27         00 - 7F         -64 - +63           29         30         10           Octave         31         3E (62) / 3F (63) / 40 (64) / 4	Programm	4	00	
Volume         7         00 - 7F         0 - 127           Panpot         8         00 und 01 / 40 / 7F (163 - R63 (163 = 164))           Mono         9/10         00 / 7F         163 - R63 (163 = 164)           Mono         9/10         00 / 7F         -64 - +63           Harmonic Content         11         00 - 7F         -64 - +63           Brightness         13         00 - 7F         -64 - +63           Reverb         14         00 - 7F         0 - 127           Chorus         15         00 - 7F         0 - 127           16         17	Portamento Time	5	00 - 7F	0 - 127
Panpot         8         00 und 01/40/7F 00-7F         links / mittig / rechts L63 - R63 (L63 = L64)           Mono         9/10         00 / 7F         aus / an           Harmonic Content         11         00 - 7F         -64 - +63           Brightness         13         00 - 7F         -64 - +63           Reverb         14         00 - 7F         0 - 127           Chorus         15         00 - 7F         0 - 127           Chorus         16		6		
Mono   9/10   00 / 7F   163 - R63 (163 = 164)	Volume	7	00 - 7F	0 - 127
Mono         9/10         00 / 7F         aus / an           Harmonic Content         11         00 - 7F         -64 - +63           Brightness         13         00 - 7F         -64 - +63           Reverb         14         00 - 7F         0 - 127           Chorus         15         00 - 7F         0 - 127           Chorus         16	Panpot	8	00 und 01 / 40 / 7F	links / mittig / rechts
Harmonic Content  11 00 - 7F - 64 - +63  Brightness 13 00 - 7F - 64 - +63  Reverb 14 00 - 7F - 0 - 127  Chorus 15 00 - 7F - 0 - 127  16 17 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19				
12	Mono	9/10		
Brightness         13         00 - 7F         -64 - +63           Reverb         14         00 - 7F         0 - 127           Chorus         15         00 - 7F         0 - 127           16         17	Harmonic Content	11	00 - 7F	-64 - +63
Reverb       14       00 - 7F       0 - 127         Chorus       15       00 - 7F       0 - 127         16       17       18       19         19       19       19       19         EQ Low       20       00 - 7F       -64 - +63       19         EQ High       22       00 - 7F       -64 - +63       10         23       24       10 </td <td></td> <td>12</td> <td></td> <td></td>		12		
Chorus       15       00 - 7F       0 - 127         16       17	Brightness	13	00 - 7F	-64 - +63
16	Reverb	14	00 - 7F	0 - 127
17	Chorus	15	00 - 7F	0 - 127
18       19         EQ Low       20       00 - 7F       -64 - +63         21       -64 - +63         EQ High       22       00 - 7F       -64 - +63         23		16		
EQ Low 20 00 - 7F -64 - +63  21		17		
EQ Low 20 00 - 7F -64 - +63 21		18		
EQ High 22 00 - 7F -64 - +63  23 24 24 25 25 25 27 20 20 20 20 20 20 20 20 20 20 20 20 20		19		
EQ High 22 00 - 7F -64 - +63  23 24 24 25 25 25 27 20 20 20 20 20 20 20 20 20 20 20 20 20	EQ Low	20	00 - 7F	-64 - +63
EQ High 22 00 - 7F -64 - +63  23 24 25 25 25 26 27 27 27 27 27 27 27 27 27 27 27 27 27		21		
23	EQ High	22	00 - 7F	-64 - +63
24       25         Pitch Bend Range       26       00 – 0C       0 - 12         Tuning       27       00 - 7F       -64 - +63         28		23		
Pitch Bend Range       26       00 - 0C       0 - 12         Tuning       27       00 - 7F       -64 - +63         28       -29				
Pitch Bend Range       26       00 - 0C       0 - 12         Tuning       27       00 - 7F       -64 - +63         28       -29		_		
Tuning 27 00 - 7F -64 - +63  28 29 30 30 30 31 3E (62) / 3F (63) / 40 (64) / -2 / -1 / 0 / 1 / 2  Octave 31 3E (62) / 3F (63) / 40 (64) / 41 (65) / 42 (66) 32 33 34 34 35 35 36 36 37 38 38 39 39 40 40 40 41 41 42 42 4 42 4 42	Pitch Bend Range		00 – 0C	0 - 12
28				
29		_		3. 33
Octave  31		_		
Octave 31 3E (62) / 3F (63) / 40 (64) / 41 (65) / 42 (66) 32 33 34 35 35 36 37 38 39 40 40 41 41 42 41 42				
32         33         34         35         36         37         38         39         40         41         42	Octave			-2/-1/0/1/2
33         34         35         36         37         38         39         40         41         42		22	41 (65) / 42 (66)	
34         35         36         37         38         39         40         41         42				
35 36 37 38 39 40 41 42				
36         37         38         39         40         41         42				
37 38 39 40 41 42				
38 39 40 41 42				
39 40 41 42				
40 41 42		_		
41 42				
42		_		
Basic 1B Reverb		42		
			Basic 1B Reverb	

		l	
	1	FF	00 bei Änderung allgemein
			00 bei Song Volumeänderung
			(von 52 auf 51 und von 52 auf 0
			und von 52 auf 127)
			00 bei Song Channeländerung
	2	FB	FF wenn anderer Reverb
			FD wenn nur Song
			abgespeichert wird
			02 bei Änderung allgemein
			04 bei Song Volumeänderung
			(von 52 auf 51 und von 52 auf 0
			und von 52 auf 127)
			04 bei Song Channeländerung
			02 bei Style-Part Änderung (von
			A nach B)
			02 wenn Style-DSP1-9 Änderung
	3	FF	
	4	FF	
	5	01	MSB
	6	13	LSB
	7	40	
		Basic 1C Chorus	
	1	FF	00 bei Änderung allgemein
			00 wenn anderer Reverb
			00 bei Song Volumeänderung
			(von 52 auf 51 und von 52 auf 0
			und von 52 auf 127)
			00 bei Song Channeländerung
	2	FB	02 bei Änderung allgemein
			02 wenn anderer Reverb
			FF wenn anderer Chorus
			04 wenn Song Volumeänderung
			(von 52 auf 51 und von 52 auf 0
			und von 52 auf 127)
			04 bei Song Channeländerung
			02 bei Style-Part Änderung (von
			A nach B)
	3	FF	
	4	FF	
	5	41	MSB
	6	00	LSB
	7	40	
	· '	Basic 1D DSP1-9	
	1		
	1	FF	
	2	FD	FB wenn Style-Part Änderung
			(von A nach B)
			FE wenn StyleDSP1-9 Änderung
	3	00	
	4	00	
	5	00	
DSP 1 Type??	6	03	0C (12): DSP1 Flanger 1
DSI I Type::			19 (25): DSP1 Flanger 2
			OA (10): DSP1 Clean2
			(Distortion?)
		ĺ	06: DSP1 Reverb Hall1

	1		
			09: DSP1 TempoDelay
	7	FF	00 if User Type
	8	FF	00 if User Type
DSP 1	9	62	MSB
	10	1A	LSB
	11	00	
	12	7F	
	13	40	
	14	00	
DSP1 Part	15	18 (2C?)	1C wenn Style-Part Änderung
			(von A nach B)
			18: RHY1
			19: RHY2
			1A: BASS
			1B: CHD1
			1C: CHD2
			1D: PAD
			1E: PHR1
			1F: PHR2
		Basic 1E	I
	1	00	
	2	00	
	3	7F	
	4	00	
	5	00	
	6	0A	09 wenn Style DSP1-9 Änderung
	7	FF	
	8	FF	
	9	62	15 wenn Style DSP1-9 Änderung
	10	1A	00 wenn Style DSP1-9 Änderung
	11	00	
	12	00	
	13	20	7F wenn StyleDSP1-9 Änderung
	14	FF	, 5
	15	FD	F9 wenn StyleDSP1-9 Änderung
	1 -5	Basic 20	13 Weilingtylessi 137 inderding
	1	00	
	2	7F	00 wenn nur Song
	-	, · ·	abgespeichert oder auch nicht?
	3	00	- 20-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
	4	00	7F, dann 00 nach DSP1 User
	] .		Type
	5	00	75.5
	6	01	3E wenn Song Volumeänderung
		<del>-</del>	(von 52 auf 51)
			OA wenn Song Volumeänderung
			(von 52 auf 127)
	7	FF	
	8	FF	
	9	63	FF wenn Song Volumeänderung
	_		(von 52 auf 51)
			62 wenn Song Volumeänderung
			(von 52 auf 127)
	1	I .	, , , , , , , , , , , , , , , , , , ,

		01 if DSP1 User Type
10	10	11 wenn Song Volumeänderung
		(von 52 auf 51)
		1A wenn Song Volumeänderung
		(von 52 auf 127)
11	00	
12	00	
13	03	7F wenn Song Volumeänderung
		(von 52 auf 51)
		(von 52 auf 51)
		00 wenn Song Volumeänderung
		(von 52 auf 127)
		7F is DSP1 User Type
14	FF	
15	FA	FF bei Änderung allgemein
		bei Änderung des Tempos
		FD wenn nur Song
		abgespeichert
		F9 wenn Song Volumeänderung (von 52 auf 51)
		FF wenn Song Volumeänderung
		(von 52 auf 127)
	Basic 21	(1011 32 da1 127)
1	00	
2	7F	
3	00	
4	00	
5	00	
6	09	0D wenn Song Volumeänderung
		(von 52 auf 127)
7	FF	,
8	FF	
9	15	
10	00	10 wenn Song Volumeänderung
		(von 52 auf 127)
11	00	
12	00	
13	01	
14	FF	
15	FA	FF bei Änderung allgemein
		bei Änderung des Tempos
	Basic 22	
1	00	
2	7F	
3	00	
4	00	
5	00	
6	15	
7	FF	
8	FF	
9	42	
10	10	
11	00	

	1		
	12	00	
	13	02	
	14	FF	
	15	FA	FF bei Änderung allgemein?
		Tempo 29	
Tempo ?	1/2	00 05 - 01 F4	5- 500
Tempo Song	3/4	00 05 - 01 F4	5 - 500
Tempo Style	5/6	00 05 - 01 F4	5-500
	7	00 / 7F	aus / ein Vermutung: nur ein, wenn Tempo Song nicht gleich Tempo Style
		Basic 3E	
	1	00	
	2	00	7F wenn Style-Part Änderung (von A nach B)
	3	00	
	4	00	
	5	00	
	6	00	03 wenn Style-Part Änderung (von A nach B)
	7	FF	
	8	FF	
	9	40	62 wenn Style-Part Änderung (von A nach B)
	10	00	11 wenn Style-Part Änderung (von A nach B)
	11	00	
	12	00	
	13	7F	1B wenn Style-Part Änderung (von A nach B)
	14	FF	
	15	F9	FB wenn Style-Part Änderung (von A nach B)

### 4 APPENDIX

#### 4.1 STYLE CHANNEL NUMBERS

4.1	4.1 Style Channel Numbers												
Hex	1	2	3	4	5	6	7	8					
00													
	F	RHY	1 (C	han	nel	1)							
01	Х												
		RHY	2 (0	han	nel	2)	<u>,                                      </u>						
02		Х	•			,							
03	Х	X											
			s (Cl	nanı	nel 3	3)	l						
04		l l	X	<u> </u>		-, 							
05	Х		X										
06		Х	X										
07	Х	X	X										
CHD 1 (Channel 4)													
08		שווג	1 (0	Х	IIICI	<del>",</del>							
09	Х			X									
09 0A	^	v		X									
0B	Х	X		X									
	^	^	v	Х									
00	Х		X										
OD OF	^	\ <u>\</u>	X	X				$\vdash$					
0E	.,	X	X	X									
OF	Х	X	X	X	<u> </u>								
-10		CHD	2 (C	nan	nel	5)	l	l					
10					Х								
11	Χ				X								
12		Х			Х								
13	Х	Х			X								
14			Χ		X								
15	Χ		Χ		X								
16		Χ	Χ		X								
17	Χ	Χ	Χ		X								
18				Χ	X								
19	Χ			Χ	X								
1A		Χ		Χ	X								
1B	Χ	Χ		Χ	X								
1C			Χ	Χ	X								
1D	Χ		Χ	Χ	X								
1E		Χ	Χ	Χ	Х								
1F	Χ	Χ	Χ	Χ	X								
		PAD	(Cl	nanı	nel (	5)							
20						X							
21	Χ				L	X							
22		Χ				X							
23	Χ	Χ				Х							
24			Χ			Х							
25	Х		Χ			Х							
26		Х	Χ			Х							
27	Χ	Х	Χ			Х							
28				Х		Х							
29	Х			Х		Х							
2A		Х		Х		Х							
	<u> </u>						I	1					

Hex	1	2	3	4	5	6	7	8
2B	Χ	Χ		Χ		Х		
2C			Х	Х		Х		
2D	Χ		Х	Х		Х		
2E		Х	Х	Х		Х		
2F	Х	Х	Х	Х		Х		
30					Х	X		
31	Х				Х	Х		
32		Х			Х	X		
33	Χ	Х			Х	X		
34			Χ		Х	X		
35	Χ		Х		Х	X		
36	^	Х	Х		Х	X		
37	Χ	Х	Х		Х	X		
38	^	^	^	v	X	X		
	V			X				
39	Χ	\ <u>'</u>		X	X	X		
3A	.,	X		X	X	X		
3B	Χ	Χ		X	X	X		
3C			X	X	X	X		
3D	Χ		Χ	Χ	Χ	X		
3E		Х	Х	Х	Х	Х		
3F	Χ	Х	Х	Х	Χ	X		
	F	PHR	1 (C	han	nel	7)	ı	ı
40							X	
41	Χ						X	
42		Χ					X	
43	Χ	Χ					X	
44			Χ				X	
45	Χ		Χ				X	
46		Χ	Χ				Х	
47	Χ	Χ	Х				Х	
48				Χ			Х	
49	Χ			Х			Х	
4A		Х		Χ			Х	
4B	Χ	Х		Х			Х	
4C			Х	Х			Х	
4D	Х		Х	Х			X	
4E		Х	Х	Х			X	
4F	Х	Х	Х	Х			X	
50					Х		X	
51	Χ				Х		X	
52		Χ			Х		X	
53	Χ	Х			Х		X	
54			Х		Х		X	
55	Χ		X		X		X	
56	^	Х	X		X		X	
57	Х	X	X		X		X	
58	^	^	^	Х	Х		X	
59	Х						X	
	^	v		X	X			
5A	.,	X		X	X		X	
5B	Χ	Χ		X	X		X	
5C			X	X	X		X	
5D	Х		X	X	X		X	
5E		X	X	X	X		X	
5F	Χ	Χ	Χ	Χ	Χ		X	

Hex	1	2	3	4	5	6	7	8
60	_					Х	X	
61	Х					Х	X	
62		Х				Х	X	
63	Х	Х				Х	X	
64		-	Х			Х	X	
65	Х		Х			Х	X	
66		Х	Х			Х	Х	
67	Х	Х	Х			Х	Х	
68				Х		Х	Х	
69	Х			Х		Х	Х	
6A		Х		Х		Х	Х	
6B	Х	Χ		Х		Х	Х	
6C			Х	Х		Х	Х	
6D	Х		Х	Х		Χ	Х	
6E		Х	Х	Х		Х	Х	
6F	Х	Χ	Χ	Х		Х	Х	
70					Х	Χ	Х	
71	Х				Х	Χ	Х	
72		Х			Х	Х	Х	
73	Х	Х			Х	Χ	Х	
74			Х		Х	Х	Х	
75	Х		Х		Χ	Х	Х	
76		Χ	Χ		Χ	Χ	Х	
77	Х	Χ	Χ		Χ	Х	Х	
78				Х	Х	Х	Х	
79	Х			Х	Х	Χ	Х	
7A		Х		Х	Х	Х	Х	
7B	Х	Х		Х	Х	Х	Х	
7C			Х	Х	Х	Χ	Х	
7D	Х		Х	Х	Х	Х	Х	
7E		Х	Х	Х	Х	Х	Х	
7F	Х	Χ	Χ	Х	Χ	Χ	Х	
	F	PHR	2 (C	han	nel	8)		
80								Х
81	Χ							Х
82		Х						Х
83	Х	Х						Х
84			Χ					X
85	Χ		Χ					X
86		Χ	Χ					Х
87	Χ	Χ	Χ					X
88				Χ				X
89	Χ			Χ				X
8A		Χ		Χ				Х
8B	Χ	Χ		Χ				Х
8C			Χ	Χ				Х
8D	Χ		Χ	Χ				Х
8E		Χ	Χ	Χ				X
8F	Х	Х	Χ	Х				X
90					Χ			X
91	Х				Χ			X
92		Χ			Χ			X
93	Х	Х			Χ			X
94			Χ		Χ			X

Hex	1	2	3	4	5	6	7	8
95	Χ		Χ		Χ			X
96		Х	Χ		Χ			X
97	Χ	Χ	Χ		Χ			Х
98				Χ	Χ			Х
99	Χ			Χ	Χ			Х
9A		Х		Х	Χ			Х
9B	Χ	Х		Χ	Х			Х
9C			Х	Х	Х			Х
9D	Χ		Х	Х	Χ			Х
9E		Χ	Χ	Χ	Χ			Х
9F	Χ	Χ	Χ	Χ	Χ			X
A0						Χ		X
A1	Χ					Χ		X
A2		Χ				Χ		X
A3	Χ	Χ				Χ		X
A4			Χ			Χ		X
A5	Χ		Χ			Χ		X
A6		Χ	Χ			Χ		X
Α7	Χ	Χ	Χ			Χ		X
A8				Χ		Χ		X
Α9	Χ			Χ		Χ		X
AA		Χ		Χ		Χ		X
AB	Χ	Χ		Χ		Χ		X
AC			Χ	Χ		Χ		Х
AD	Χ		Х	Х		Χ		Х
ΑE		Х	Х	Х		Χ		Х
AF	Χ	Х	Х	Х		Χ		Х
В0					Χ	Χ		Х
В1	Χ				Χ	Χ		Х
B2		Χ			Χ	Χ		Х
В3	Χ	Χ			Χ	Χ		Х
В4			Χ		Χ	Χ		Х
В5	Χ		Х		Χ	Χ		Х
В6		Х	Х		Χ	Χ		Х
В7	Χ	Х	Χ		Χ	Χ		Х
В8				Х	Х	Χ		Х
В9	Х			Х	Х	Х		Х
ВА		Х		Х	Х	Χ		X
ВВ	Χ	Х		Х	Χ	Χ		X
ВС			Х	Χ	Х	Χ		X
BD	Χ		Х	Х	Х	Χ		X
BE		Х	Х	Х	Х	Х		Х
BF	Χ	Х	Χ	Χ	Χ	Χ		X
CO							Х	X
C1	Χ						Х	Х
C2		Х					Х	X
C3	Χ	Х					Х	X
C4			Χ				Χ	X
C5	Х		Х				Х	Х
C6		Х	Х				Х	Х
C7	Х	Х	Х				Х	Х
C8				Х			Х	Х
C9	Х			Х			Х	Х
CA		Х	1	Х			Х	Х

Hex	1	2	3	4	5	6	7	8
СВ	Х	Х		Х			Х	Х
CC			Х	Х			Х	X
CD	Х		Х	Х			Х	Х
CE		Х	Х	Х			Х	Х
CF	Х	Х	Х	Х			Х	X
D0		-			Х		Х	X
D1	Х				Х		Х	X
D2	^	Х			Х		Х	Х
D3	Х	Х			Х		Х	X
D4			Х		Х		Х	Х
D5	Х		Х		Х		Х	Х
D6		Х	X		Х		Х	X
D7	Х	Х	Х		Х		Х	Х
D8				Х	Х		Х	X
D9	Х			Х	Х		Х	X
DA		Χ		Х	Х		Х	X
DB	Х	Х		Х	Х		Х	Х
DC			Х	X	X		X	X
DD	Χ		Х	Х	Х		Х	X
DE	^	Χ	Х	Х	Х		Х	X
DF	Х	Х	X	Х	Х		Х	X
E0	^	^	^	^	^	Χ	Х	X
E1	Х					Х	Х	X
E2	^	Х				Х	Х	X
E3	Χ	Х				X	Х	X
E4	^	^	Χ			X	Х	X
E5	Χ		X			X	Х	X
E6	^	Х	X			X	Х	X
E7	Х	X	X			X	X	X
E8	^	^	^	Х		X	Х	X
E9	Χ			Х		X	X	X
EA	^	Х		Х		Х	Х	Х
EB	Х	Х		Х		X	Х	X
EC	^	^	Χ	Х		Х	Х	X
ED	Х		Х	Х		Х	Х	X
EE	^	Χ	Х	Х		Х	Х	X
EF	Х	Х	X	X		Х	Х	X
F0	^	^	^	^	Χ	Х	Х	X
F1	Х				Х	Х	Х	Х
F2		Χ			Х	Х	Х	Х
F3	Χ	Х			Х	X	Х	X
F4			Χ		Х	X	Х	X
F5	Χ		Х		Х	Х	Х	X
F6		Х	Х		Х	X	Х	X
F7	Х	X	X		Х	X	Х	X
F8				Х	Х	Х	Х	Х
F9	Х			X	X	X	Х	X
FA		Х		X	X	X	X	X
FB	Х	X		X	X	X	Х	X
FC			Х	X	X	X	X	X
FD	Χ		X	X	X	X	X	X
FE		Х	X	X	X	X	X	X
FF	Х	X	X	X	X	X	Χ	X
rr	^	^	^	^	^	^	^	^

### SETTING-GROUPS (GPM-BLÖCKE)

SETTING-GROUPS (GPM-BLOCKE)											
GPm	Song	Style	Voice	Tune Tr.	Scale	Harmony	Tempo	Pedal	MPad	MicS	LineO.
01	Х	Χ									
02	Х	X									
03	Х										
04	Х										
05	Х										
06											
07		Х									
08		Х									
09		x?									
0A		Α.									
OB											
OC OC											
0D											
0E											
0F											
10											
11											
12											
13		Χ									
14		^									
		V									
15		Χ									
16											
17											
18											
19											
1A											
1B	X	X									
1C	X	X									
1D	X	Х									
1E	Х	Х									
1F	Х	Х									
20	Х	Х									
21	Х	Χ									
22	Χ	Χ									
23											
24											
25											
26											
27											
28											
29											
2A											
2B											
2C											
2D											
2E											
2F											
30											
31											

GPm	Song	Style	Voice	Tune Tr.	Scale	Harmony	Tempo	Pedal	MPad	MicS	LineO.
32											
33											
34											
35											
36											
37											
38											
39											
3A											
3B											
3C	Χ	Χ									
3D	Χ	Χ									
3E	Χ	Χ									

# 5 Schluss