

# Clavinova®

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MIDIリファレンス

CLP-685

CLP-675

CLP-645

CLP-635

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# エフェクトタイプ一覧

## Reverb Block

ボイスメニューで設定できる  
リバーブタイプ

エフェクト名	MSB	LSB
Off (オフ)	0	0
リサイタルホール	1	24
コンサートホール	1	4
サロン	2	24
大聖堂	1	5
クラブ	3	24
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すべてのリバーブタイプ  
(CLP-685のみ)

XG Effect Name	MSB	LSB
MODERN HALL	1	24
CONCERT HALL	1	4
CATHEDRAL	1	5
BASIC HALL	1	21
LIGHT HALL	1	22
BALLAD HALL	1	19
PIANO HALL	1	20
HALL1	1	0
HALL2	1	16
HALL3	1	17
HALL4	1	18
HALL5	1	1
HALL M	1	6
HALL L	1	7
ATMO HALL	1	23
VOCAL HALL1	1	27
VOCAL HALL2	1	28
CHAMBER	2	24
CLUB	3	24
ACOUSTIC ROOM	2	20
DRUMS ROOM	2	21
PERC ROOM	2	22
ROOM1	2	16
ROOM2	2	17
ROOM3	2	18
ROOM4	2	19
ROOM5	2	0
ROOM6	2	1
ROOM7	2	2
ROOM S	2	5
ROOM M	2	6
ROOM L	2	7
STAGE1	3	16
STAGE2	3	17
STAGE3	3	0
STAGE4	3	1
PLATE	4	24
PLATE1	4	16
PLATE2	4	17
PLATE3	4	0
GM PLATE	4	7
TUNNEL	17	0
CANYON	18	0
BASEMENT	19	0
LARGE HALL	1	2
MEDIUM HALL	1	3
WARM ROOM	2	3
WHITE ROOM	16	0
WOODY ROOM	2	4
RICH PLATE	4	1
NO EFFECT	0	0

## Chorus Block

ボイスメニューで設定できる  
コーラスタイプ

エフェクト名	MSB	LSB
Off (オフ)	0	0
コーラス	65	8
セレステ	66	8
フランジャー	67	1

すべてのコーラスタイプ  
(CLP-685のみ)

XG Effect Name	MSB	LSB
HALL1	1	0
HALL2	1	16
HALL3	1	17
HALL4	1	18
HALL5	1	1
HALL M	1	6
HALL L	1	7
ATMO HALL	1	23
ACOUSTIC ROOM	2	20
DRUMS ROOM	2	21
PERC ROOM	2	22
ROOM1	2	16
ROOM2	2	17
ROOM3	2	18
ROOM4	2	19
ROOM5	2	0
ROOM6	2	1
ROOM7	2	2
ROOM S	2	5
ROOM M	2	6
ROOM L	2	7
STAGE1	3	16
STAGE2	3	17
STAGE3	3	0
STAGE4	3	1
PLATE1	4	16
PLATE2	4	17
PLATE3	4	0
GM PLATE	4	7
CHORUS1	66	17
CHORUS2	66	8
CHORUS3	66	16
CHORUS4	66	1
CHORUS5	65	2
CHORUS6	65	0
CHORUS7	65	1
CHORUS8	65	8
CHORUS FAST	65	16
CHORUS LITE	65	17
GM CHORUS1	65	3
GM CHORUS2	65	4
GM CHORUS3	65	5
GM CHORUS4	65	6
FB CHORUS	65	7
CELESTE1	66	0
CELESTE2	66	2
SYMPHONIC1	68	16
SYMPHONIC2	68	0
ENS DETUNE1	87	0
ENS DETUNE2	87	16
KARAOKE1	20	0
KARAOKE2	20	1
KARAOKE3	20	2
FLANGER1	67	8
FLANGER2	67	16
FLANGER3	67	17
FLANGER4	67	1
FLANGER5	67	0

XG Effect Name	MSB	LSB
GM FLANGER	67	7
T_FLANGER	107	0
TEMPO DELAY1	21	0
TEMPO DELAY2	21	16
TEMPO ECHO	21	8
TEMPO CROSS1	22	0
TEMPO CROSS2	22	16
TEMPO CROSS3	22	17
TEMPO CROSS4	22	18
PHASER1	72	0
T_PHASER1	108	0
T_PHASER2	108	16
EP PHASER1	72	17
EP PHASER2	72	18
EP PHASER3	72	16
ROTARY SP1	69	16
ROTARY SP2	71	17
ROTARY SP3	71	18
ROTARY SP4	70	17
ROTARY SP5	66	18
ROTARY SP6	69	0
ROTARY SP7	71	22
AUTO PAN1	71	16
AUTO PAN2	71	0
EP AUTOPAN	71	21
T_AUTO PAN1	121	0
TREMOLO1	70	16
TREMOLO2	71	19
TREMOLO3	70	0
EP TREMOLO	70	18
GT TREMOLO1	71	20
GT TREMOLO2	70	19
VIBE VIBRATE	119	0
T_TREMOLO	120	0
NO EFFECT	0	0

## DSP Block

ボイスメニューで設定できる  
エフェクトタイプ

エフェクト名	MSB	LSB
Off (オフ)	64	0
ディレイLCR	5	16
ディレイLR	6	0
エコー	7	0
クロスディレイ	8	0
シンフォニック	68	16
ロータリー	66	18
トレモロ	70	18
パイプローター	119	0
オートパン	71	21
フェイザー	72	16
オートワウ	78	16

すべてのエフェクトタイプ  
(CLP-685のみ)

XG Effect Name	MSB	LSB
HALL1	1	0
HALL2	1	16
HALL3	1	17
HALL4	1	18
HALL5	1	1
HALL M	1	6
HALL L	1	7
ATMO HALL	1	23
ACOUSTIC ROOM	2	20
DRUMS ROOM	2	21
PERC ROOM	2	22
ROOM1	2	16
ROOM2	2	17
ROOM3	2	18
ROOM4	2	19
ROOM5	2	0
ROOM6	2	1
ROOM7	2	2
ROOM S	2	5
ROOM M	2	6
ROOM L	2	7
STAGE1	3	16
STAGE2	3	17
STAGE3	3	0
STAGE4	3	1
PLATE1	4	16
PLATE2	4	17
PLATE3	4	0
GM PLATE	4	7
TUNNEL	17	0
CANYON	18	0
BASEMENT	19	0
WHITE ROOM	16	0
CHORUS1	66	17
CHORUS2	66	8
CHORUS3	66	16
CHORUS4	66	1
CHORUS5	65	2
CHORUS6	65	0
CHORUS7	65	1
CHORUS8	65	8
CHORUS FAST	65	16
CHORUS LITE	65	17
GM CHORUS1	65	3
GM CHORUS2	65	4
GM CHORUS3	65	5
GM CHORUS4	65	6
FB CHORUS	65	7
CELESTE1	66	0
CELESTE2	66	2

XG Effect Name	MSB	LSB
SYMPHONIC1	68	16
SYMPHONIC2	68	0
ENS DETUNE1	87	0
ENS DETUNE2	87	16
KARAOKE1	20	0
KARAOKE2	20	1
KARAOKE3	20	2
ER1	9	0
ER2	9	1
GATE REVERB1	10	0
GATE REVERB2	10	16
REVERSE GATE	11	0
EQ DISCO	76	16
EQ TEL	76	17
2BAND EQ	77	0
3BAND EQ	76	0
ST 3BAND EQ	76	18
HM ENHANCE1	81	16
HM ENHANCE2	81	0
FLANGER1	67	8
FLANGER2	67	16
FLANGER3	67	17
FLANGER4	67	1
FLANGER5	67	0
GM FLANGER	67	7
T_FLANGER	107	0
DELAY LCR1	5	16
DELAY LCR2	5	0
DELAY LR	6	0
ECHO	7	0
CROSS DELAY1	8	0
CROSS DELAY2	8	16
TEMPO DELAY1	21	0
TEMPO DELAY2	21	16
TEMPO ECHO	21	8
TEMPO CROSS1	22	0
TEMPO CROSS2	22	16
TEMPO CROSS3	22	17
TEMPO CROSS4	22	18
V_DIST WARM	98	22
V_DIST CLS H	98	23
V_DIST CLS S	98	20
V_DIST METAL	98	24
V_DIST CRUNC	98	18
V_DIST BLUES	98	21
V_DIST EDGY	98	19
V_DIST SOLID	98	25
V_DIST CLEAN1	98	17
V_DIST CLEAN2	98	26
V_DIST TWIN	98	16
V_DIST ROCA	103	18
V_DIST JZ CLN	98	27
V_DIST FUSION	103	19
ST AMP SOLID	75	29
ST AMP CRUNC	75	30
ST AMP BLUES	75	28
ST AMP CLEAN	75	27
ST AMP HARP	75	31
V_DIST HARD	98	0
V_DIST SOFT	98	2
DIST HARD1	75	16
DIST HARD2	75	22
DIST SOFT1	75	17
DIST SOFT2	75	23
DIST HEAVY	73	0
OVER DRIVE	74	0
ST DIST	73	8
ST OD	74	8
ST DIST HARD	75	18
ST DIST SOFT	75	19

XG Effect Name	MSB	LSB
AMP SIM1	75	0
AMP SIM2	75	1
ST AMP1	75	20
ST AMP2	75	21
ST AMP3	75	8
ST AMP4	75	24
ST AMP5	75	25
ST AMP6	75	26
DST+DELAY1	95	16
DST+DELAY2	95	0
OD+DELAY1	95	17
OD+DELAY2	95	1
CMP+DST+DLY1	96	16
CMP+DST+DLY2	96	0
CMP+OD+DLY1	96	17
CMP+OD+DLY2	96	1
V_DIST H+DLY	98	1
V_DIST S+DLY	98	3
DST+TDLY	100	0
OD+TDLY	100	1
COMP+DIST1	73	16
COMP+DIST2	73	1
CMP+DST+TDL	101	0
CMP+OD+TDLY1	101	1
CMP+OD+TDLY2	101	16
CMP+OD+TDLY3	101	17
CMP+OD+TDLY4	101	18
CMP+OD+TDLY5	101	19
CMP+OD+TDLY6	101	20
V_DIST H+TDL1	103	0
V_DIST H+TDL2	103	17
V_DIST S+TDL1	103	1
V_DIST S+TDL2	103	16
COMP MED	83	16
COMP HEAVY	83	17
COMP MELODY	105	16
COMP BASS	105	17
MBAND COMP	105	0
COMPRESSOR	83	0
NOISE GATE	84	0
VCE CANCEL	85	0
AMBIENCE	88	0
TALKING MOD	93	0
LO-FI DRUM3	76	19
LO-FI DRUM4	76	20
ISOLATOR	115	0
PHASER1	72	0
PHASER2	72	8
PHASER3	72	19
T_PHASER1	108	0
T_PHASER2	108	16
EP PHASER1	72	17
EP PHASER2	72	18
EP PHASER3	72	16
PITCH CHG1	80	16
PITCH CHG2	80	0
PITCH CHG3	80	1
DUAL ROT BRT	99	16
DUAL ROT WRM	99	17
DUAL ROT SP1	99	0
DUAL ROT SP2	99	1
ROTARY SP1	69	16
ROTARY SP2	71	17
ROTARY SP3	71	18
ROTARY SP4	70	17
ROTARY SP5	66	18
ROTARY SP6	69	0
ROTARY SP7	71	22
2WAY ROT SP	86	0
DST+ROT SP	69	1

XG Effect Name	MSB	LSB
DST+2ROT SP	86	1
OD+ROT SP	69	2
OD+2ROT SP	86	2
AMP+ROT SP	69	3
AMP+2ROT SP	86	3
AUTO PAN1	71	16
AUTO PAN2	71	0
AUTO PAN3	71	1
EP AUTOPAN	71	21
T_AUTO PAN1	121	0
T_AUTO PAN2	121	1
TREMOLO1	70	16
TREMOLO2	71	19
TREMOLO3	70	0
EP TREMOLO	70	18
GT TREMOLO1	71	20
GT TREMOLO2	70	19
VIBE VIBRATE	119	0
T_TREMOLO	120	0
AUTO WAH1	78	16
AUTO WAH2	78	0
AT.WAH+DST1	78	17
AT.WAH+DST2	78	1
AT.WH+DST HD	78	21
AT.WH+DST HV	78	23
AT.WH+DST LT	78	25
AT.WAH+OD1	78	18
AT.WAH+OD2	78	2
AT.WH+OD HD	78	22
AT.WH+OD HV	78	24
AT.WH+OD LT	78	26
TEMPO AT.WAH	79	0
T_AT.WH+DST	79	1
T_A.WH+DSTHD	79	21
T_A.WH+DSTHV	79	23
T_A.WH+DSTLT	79	25
T_AT.WH+OD	79	2
T_A.WH+OD HD	79	22
T_A.WH+OD HV	79	24
T_A.WH+OD LT	79	26
TOUCH WAH1	82	0
TOUCH WAH2	82	8
TOUCH WAH3	82	20
TC.WH+DST1	82	16
TC.WH+DST2	82	1
TC.WH+DST HD	82	21
TC.WH+DST HV	82	23
TC.WH+DST LT	82	25
TC.WAH+OD1	82	17
TC.WAH+OD2	82	2
TC.WAH+OD HD	82	22
TC.WAH+OD HV	82	24
TC.WAH+OD LT	82	26
WH+DST+DLY1	97	16
WH+DST+DLY2	97	0
WH+DST+TDLY	102	0
WH+OD+DLY1	97	17
WH+OD+DLY2	97	1
WH+OD+TDLY1	102	1
WH+OD+TDLY2	102	16
CLAVI TC.WAH	82	18
EP TC.WAH	82	19
PEDAL WAH	122	0
PEDAL WH+DST	122	1
P.WH+DIST HD	122	21
P.WH+DIST HV	122	23
P.WH+DIST LT	122	25
PEDAL WH+OD	122	2
P.WH+OD HD	122	22
P.WH+OD HV	122	24

XG Effect Name	MSB	LSB
P.WH+OD LT	122	26
NO EFFECT	0	0
THRU	64	0

# エフェクトパラメーター一覧

Control欄に印がついているものは、AC1(アサインブルコントローラー 1)などでコントロール可能なパラメーターです。

(注: Parameter 10 Dry/WetはDSP Effectにのみ有効)  
 (\*1) Reverb Block  
 (\*2) Chorus Block  
 (\*3) DSP Block

## REVERB

BASIC HALL, LIGHT HALL, HALL1, 2, 3, 4, 5, HALL M, HALL L, ATMO HALL, VOCAL HALL1, 2, ACOUSTIC ROOM, DRUMS ROOM, PERC ROOM, ROOM1, 2, 3, 4, 5, 6, 7, ROOM S, ROOM M, ROOM L, STAGE1, 2, 3, 4, PLATE1, 2, 3, GM PLATE

No.	Parameter	Display	Value	See Table	Control
1	Reverb Time	0.3s - 30.0s	0 - 69	Table #4	
2	Diffusion	0 - 10	0 - 10		
3	Initial Delay	0.1ms - 200.0ms (*1) 0.1ms - 99.3ms (*2, 3)	0 - 127 0 - 63	Table #5	
4	HPF Cutoff	Thru, 22Hz - 8.0kHz	0, 1 - 52	Table #3	
5	LPF Cutoff	1.0kHz - 18kHz, Thru	34 - 59, 60	Table #3	
6					
7					
8					
9					
10	Dry/Wet	D63>W - D=W - D<W63	1 - 64 - 127		●
11	Rev Delay	0.1ms - 200.0ms (*1) 0.1ms - 99.3ms (*2, 3)	0 - 127 0 - 63	Table #5	
12	Density	0 - 4 (*1, 3) 0 - 2 (*2)	0 - 4 0 - 2		
13	Er/Rev Balance	E63>R - E=R - E<R63	1 - 64 - 127		
14	High Damp	0.1 - 1.0	1 - 10		
15	Feedback Level	-63 - 0 - +63	1 - 64 - 127		
16					

BALLAD HALL, PIANO HALL, LARGE HALL, MEDIUM HALL WARM ROOM, WOODY ROOM, RICH PLATE

No.	Parameter	Display	Value	See Table	Control
1	Reverb Time	0.3s - 30.0s	0 - 69	Table #4	
2	Diffusion	0 - 10	0 - 10		
3	Initial Delay	0.1ms - 200.0ms	0 - 127	Table #5	
4	HPF Cutoff	Thru, 22Hz - 8.0kHz	0, 1 - 52	Table #3	
5	LPF Cutoff	1.0kHz - 18kHz, Thru	34 - 59, 60	Table #3	
6					
7					
8					
9					
10	Dry/Wet	D63>W - D=W - D<W63	1 - 64 - 127		●
11					
12					
13					
14	High Damp	0.1 - 1.0	1 - 10		
15					
16					

TUNNEL, CANYON, BASEMENT, WHITE ROOM

No.	Parameter	Display	Value	See Table	Control
1	Reverb Time	0.3s - 30.0s	0 - 69	Table #4	
2	Diffusion	0 - 10	0 - 10		
3	Initial Delay	0.1ms - 200.0ms (*1) 0.1ms - 99.3ms (*3)	0 - 127 0 - 63	Table #5	
4	HPF Cutoff	Thru, 22Hz - 8.0kHz	0, 1 - 52	Table #3	
5	LPF Cutoff	1.0kHz - 18kHz, Thru	34 - 59, 60	Table #3	
6	Width	0.5m - 30.2m (*1) 0.5m - 10.2m (*3)	0 - 104 0 - 37	Table #11	
7	Height	0.5m - 30.2m (*1) 0.5m - 20.2m (*3)	0 - 104 0 - 73	Table #11	
8	Depth	0.5m - 30.2m	0 - 104	Table #11	
9	Wall Vary	0 - 30	0 - 30		
10	Dry/Wet	D63>W - D=W - D<W63	1 - 64 - 127		●
11	Rev Delay	0.1ms - 200.0ms (*1) 0.1ms - 99.3ms (*3)	0 - 127 0 - 63	Table #5	
12	Density	0 - 4	0 - 4		
13	Er/Rev Balance	E63>R - E=R - E<R63	1 - 64 - 127		
14	High Damp	0.1 - 1.0	1 - 10		
15	Feedback Level	-63 - 0 - +63	1 - 64 - 127		
16					

MODERN HALL, CONCERT HALL, CATHEDRAL, CHAMBER, CLUB, PLATE

No.	Parameter	Display	Value	See Table	Control
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

## DELAY

DELAY LCR1, DELAY LCR2

No.	Parameter	Display	Value	See Table	Control
1	Lch Delay	0.1ms - 1638.3ms	1 - 16383		
2	Rch Delay	0.1ms - 1638.3ms	1 - 16383		
3	Cch Delay	0.1ms - 1638.3ms	1 - 16383		
4	Feedback Delay	0.1ms - 1638.3ms	1 - 16383		
5	Feedback Level	-63 - 0 - +63	1 - 64 - 127		
6	Cch Level	0 - 127	0 - 127		
7	High Damp	0.1 - 1.0	1 - 10		
8					
9					
10	Dry/Wet	D63>W - D=W - D<W63	1 - 64 - 127		●
11					
12					
13	EQ Low Frequency	32Hz - 2.0kHz	4 - 40	Table #3	
14	EQ Low Gain	-12dB - 0dB - +12dB	52 - 64 - 76		
15	EQ High Frequency	500Hz - 16.0kHz	28 - 58	Table #3	
16	EQ High Gain	-12dB - 0dB - +12dB	52 - 64 - 76		

DELAY LR

No.	Parameter	Display	Value	See Table	Control
1	Lch Delay	0.1ms - 1638.3ms	1 - 16383		
2	Rch Delay	0.1ms - 1638.3ms	1 - 16383		
3	Feedback Delay 1	0.1ms - 1638.3ms	1 - 16383		
4	Feedback Delay 2	0.1ms - 1638.3ms	1 - 16383		
5	Feedback Level	-63 - 0 - +63	1 - 64 - 127		
6	High Damp	0.1 - 1.0	1 - 10		
7					
8					
9					
10	Dry/Wet	D63>W - D=W - D<W63	1 - 64 - 127		●
11					
12					
13	EQ Low Frequency	32Hz - 2.0kHz	4 - 40	Table #3	
14	EQ Low Gain	-12dB - 0dB - +12dB	52 - 64 - 76		
15	EQ High Frequency	500Hz - 16.0kHz	28 - 58	Table #3	
16	EQ High Gain	-12dB - 0dB - +12dB	52 - 64 - 76		

ECHO

No.	Parameter	Display	Value	See Table	Control
1	Lch Delay1	0.1ms - 1486.0ms	1 - 14860		
2	Lch Feedback Level	-63 - 0 - +63	1 - 64 - 127		
3	Rch Delay1	0.1ms - 1486.0ms	1 - 14860		
4	Rch Feedback Level	-63 - 0 - +63	1 - 64 - 127		
5	High Damp	0.1 - 1.0	1 - 10		
6	Lch Delay2	0.1ms - 1486.0ms	1 - 14860		
7	Rch Delay2	0.1ms - 1486.0ms	1 - 14860		
8	Delay2 Level	0 - 127	0 - 127		
9					
10	Dry/Wet	D63>W - D=W - D<W63	1 - 64 - 127		●
11					
12					
13	EQ Low Frequency	32Hz - 2.0kHz	4 - 40	Table #3	
14	EQ Low Gain	-12dB - 0dB - +12dB	52 - 64 - 76		
15	EQ High Frequency	500Hz - 16.0kHz	28 - 58	Table #3	
16	EQ High Gain	-12dB - 0dB - +12dB	52 - 64 - 76		

## CROSS DELAY1, CROSS DELAY2

No.	Parameter	Display	Value	See Table	Control
1	L->R Delay	0.1ms - 1486.0ms	1 - 14860		
2	R->L Delay	0.1ms - 1486.0ms	1 - 14860		
3	Feedback Level	-63 - 0 - +63	1 - 64 - 127		
4	Input Select	L, R, L&R	0 - 2		
5	High Damp	0.1 - 1.0	1 - 10		
6					
7					
8					
9					
10	Dry/Wet	D63>W - D=W - D<W63	1 - 64 - 127		●
11					
12					
13	EQ Low Frequency	32Hz - 2.0kHz	4 - 40	Table #3	
14	EQ Low Gain	-12dB - 0dB - +12dB	52 - 64 - 76		
15	EQ High Frequency	500Hz - 16.0kHz	28 - 58	Table #3	
16	EQ High Gain	-12dB - 0dB - +12dB	52 - 64 - 76		

## TEMPO DELAY1, TEMPO DELAY2, TEMPO ECHO

No.	Parameter	Display	Value	See Table	Control
1	Delay Time	64th/3 - 4thx6	0 - 19	Table #13	
2	Feedback Level	-63 - 0 - +63	1 - 64 - 127		
3	Feedback High Dump	0.1 - 1.0	1 - 10		
4	L/R Diffusion	-63ms - 0ms - 63ms	1 - 64 - 127		
5	Lag	-63ms - 0ms - 63ms	1 - 64 - 127		
6					
7					
8					
9					
10	Dry/Wet	D63>W - D=W - D<W63	1 - 64 - 127		●
11					
12					
13	EQ Low Frequency	32Hz - 2.0kHz	4 - 40		
14	EQ Low Gain	-12dB - 0dB - +12dB	52 - 64 - 76		
15	EQ High Frequency	500Hz - 16.0kHz	28 - 58		
16	EQ High Gain	-12dB - 0dB - +12dB	52 - 64 - 76		

## TEMPO CROSS1, 2, 3, 4

No.	Parameter	Display	Value	See Table	Control
1	Delay Time L>R	64th/3 - 4thx6	0 - 19	Table #13	
2	Delay Time R>L	64th/3 - 4thx6	0 - 19	Table #13	
3	Feedback Level	-63 - 0 - +63	1 - 64 - 127		
4	Input Select	L, R, L&R	0 - 2		
5	Feedback High Dump	0.1 - 1.0	1 - 10		
6	Lag	-63ms - 0ms - 63ms	1 - 64 - 127		
7					
8					
9					
10	Dry/Wet	D63>W - D=W - D<W63	1 - 64 - 127		●
11					
12					
13	EQ Low Frequency	32Hz - 2.0kHz	4 - 40		
14	EQ Low Gain	-12dB - 0dB - +12dB	52 - 64 - 76		
15	EQ High Frequency	500Hz - 16.0kHz	28 - 58		
16	EQ High Gain	-12dB - 0dB - +12dB	52 - 64 - 76		

## ER/KARAOKE

## KARAOKE1, 2, 3

No.	Parameter	Display	Value	See Table	Control
1	Delay Time	0.1ms - 400.0ms	0 - 127	Table #7	
2	Feedback Level	-63 - 0 - +63	1 - 64 - 127		
3	HPF Cutoff	Thru, 22Hz - 8.0kHz	0, 1 - 52	Table #3	
4	LPF Cutoff	1.0kHz - 18kHz, Thru	34 - 59, 60	Table #3	
5					
6					
7					
8					
9					
10	Dry/Wet	D63>W - D=W - D<W63	1 - 64 - 127		●
11	Density	0 - 3	0 - 3		
12					
13					
14					
15					
16					

## ER1, ER2

No.	Parameter	Display	Value	See Table	Control
1	Type	S-H, L-H, Rdm, Rvs, Plt, Spr	0 - 5		
2	Room Size	0.1 - 20.0	0 - 127	Table #6	
3	Diffusion	0 - 10	0 - 10		
4	Initial Delay	0.1ms - 200.0ms	0 - 127	Table #5	
5	Feedback Level	-63 - 0 - +63	1 - 64 - 127		
6	HPF Cutoff	Thru, 22Hz - 8.0kHz	0, 1 - 52	Table #3	
7	LPF Cutoff	1.0kHz - 18kHz, Thru	34 - 59, 60	Table #3	
8					
9					
10	Dry/Wet	D63>W - D=W - D<W63	1 - 64 - 127		●
11	Liveness	0 - 10	0 - 10		
12	Density	0 - 3	0 - 3		
13	High Damp	0.1 - 1.0	1 - 10		
14					
15					
16					

## GATE REVERB1, GATE REVERB2, REVERSE GATE

No.	Parameter	Display	Value	See Table	Control
1	Type	TypeA, TypeB	0 - 1		
2	Room Size	0.1 - 20.0	0 - 127	Table #6	
3	Diffusion	0 - 10	0 - 10		
4	Initial Delay	0.1ms - 200.0ms	0 - 127	Table #5	
5	Feedback Level	-63 - 0 - +63	1 - 64 - 127		
6	HPF Cutoff	Thru, 22Hz - 8.0kHz	0, 1 - 52	Table #3	
7	LPF Cutoff	1.0kHz - 18kHz, Thru	34 - 59, 60	Table #3	
8					
9					
10	Dry/Wet	D63>W - D=W - D<W63	1 - 64 - 127		●
11	Liveness	0 - 10	0 - 10		
12	Density	0 - 3	0 - 3		
13	High Damp	0.1 - 1.0	1 - 10		
14					
15					
16					

## CHORUS

## CHORUS1, 2, 3, 4, 5, 6, 7, 8, CHORUS FAST, CHORUS LITE, GM CHORUS1, 2, 3, 4, FB CHORUS, CELESTE1, 2

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz - 39.7Hz	0 - 127	Table #1	
2	LFO Depth	0 - 127	0 - 127		
3	Feedback Level	-63 - 0 - +63	1 - 64 - 127		
4	Delay Offset	0.0ms - 50ms	0 - 127	Table #2	
5					
6	EQ Low Frequency	32Hz - 2.0kHz	4 - 40	Table #3	
7	EQ Low Gain	-12dB - 0dB - +12dB	52 - 64 - 76		
8	EQ High Frequency	500Hz - 16.0kHz	28 - 58	Table #3	
9	EQ High Gain	-12dB - 0dB - +12dB	52 - 64 - 76		
10	Dry/Wet	D63>W - D=W - D<W63	1 - 64 - 127		●
11	EQ Mid Frequency (*3)	100Hz - 10.0kHz	14 - 54	Table #3	
12	EQ Mid Gain (*3)	-12dB - 0dB - +12dB	52 - 64 - 76		
13	EQ Mid Width (*3)	0.1 - 12.0	1 - 120		
14					
15	Input Mode	mono, stereo	0 - 1		
16					

## SYMPHONIC1, SYMPHONIC2

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz - 39.7Hz	0 - 127	Table #1	
2	LFO Depth	0 - 127	0 - 127		
3	Delay Offset	0.0ms - 50ms	0 - 127	Table #2	
4					
5					
6	EQ Low Frequency	32Hz - 2.0kHz	4 - 40	Table #3	
7	EQ Low Gain	-12dB - 0dB - +12dB	52 - 64 - 76		
8	EQ High Frequency	500Hz - 16.0kHz	28 - 58	Table #3	
9	EQ High Gain	-12dB - 0dB - +12dB	52 - 64 - 76		
10	Dry/Wet	D63>W - D=W - D<W63	1 - 64 - 127		●
11	EQ Mid Frequency (*3)	100Hz - 10.0kHz	14 - 54	Table #3	
12	EQ Mid Gain (*3)	-12dB - 0dB - +12dB	52 - 64 - 76		
13	EQ Mid Width (*3)	0.1 - 12.0	1 - 120		
14					
15					
16					

## ENS DETUNE1, ENS DETUNE2

No.	Parameter	Display	Value	See Table	Control
1	Detune	-50cent – 0cent – +50cent	14 – 64 – 114		
2	Lch Init Delay	0.0ms – 50ms	0 – 127	Table #2	
3	Rch Init Delay	0.0ms – 50ms	0 – 127	Table #2	
4					
5					
6					
7					
8					
9					
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 127		●
11	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	Table #3	
12	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
13	EQ High Frequency	500Hz – 16.0kHz	28 – 58	Table #3	
14	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
15					
16					

## PHASER2, PHASER3

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz – 39.7Hz	0 – 127	Table #1	
2	LFO Depth	0 – 127	0 – 127		
3	Phase Shift Offset	0 – 127	0 – 127		
4	Feedback Level	-63 – 0 – +63	1 – 64 – 127		
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	Table #3	
7	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	Table #3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 127		●
11	Stage	3 – 11	3 – 11		
12					
13	LFO Phase Difference	-180deg – 0deg – +180deg	4 – 64 – 124	resolution =3deg.	
14					
15					
16					

## FLANGER

## FLANGER1, 2, 3, 4, 5, GM FLANGER

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz – 39.7Hz	0 – 127	Table #1	
2	LFO Depth	0 – 127	0 – 127		
3	Feedback Level	-63 – 0 – +63	1 – 64 – 127		
4	Delay Offset	0.0ms – 50ms	0 – 127	Table #2	
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	Table #3	
7	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	Table #3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 127		●
11	EQ Mid Frequency (*3)	100Hz – 10.0kHz	14 – 54	Table #3	
12	EQ Mid Gain (*3)	-12dB – 0dB – +12dB	52 – 64 – 76		
13	EQ Mid Width (*3)	0.1 – 12.0	1 – 120		
14	LFO Phase Difference	-180deg – 0deg – +180deg	4 – 64 – 124	resolution =3deg.	
15					
16					

## T\_PHASER1, T\_PHASER2

No.	Parameter	Display	Value	See Table	Control
1	LFO Freq	16th – 4thx16	5 – 29	Table #13	
2	LFO Depth	0 – 127	0 – 127		
3	Phase Shift Offset	0 – 127	0 – 127		
4	Feedback Level	-63 – 0 – +63	1 – 64 – 127		
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	Table #3	
7	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	Table #3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 127		●
11	Stage	3 – 11	3 – 11		
12					
13	LFO Phase Difference	-180deg – 0deg – +180deg	4 – 64 – 124	resolution =3deg.	
14					
15					
16					

## DISTORTION

## V\_DIST WARM, V\_DIST CLS H, V\_DIST CLS S, V\_DIST METAL, V\_DIST CRUNC, V\_DIST BLUES, V\_DIST EDGY, V\_DIST SOLID, V\_DIST CLEAN1, V\_DIST CLEAN2, V\_DIST TWIN, V\_DIST JZ CLN, V\_DIST HARD, V\_DIST SOFT

No.	Parameter	Display	Value	See Table	Control
1	Overdrive	0% – 100%	0 – 100		
2	Device	Transistor, Vintage Tube, Dist1, Dist2, Fuzz	0 – 4		
3	Speaker	Flat, Stack, Combo, Twin, Radio, Megaphone	0 – 5		
4	Presence	0 – 20	0 – 20		
5	Output Level	0% – 100%	0 – 100		
6					
7					
8					
9					
10	Dry/Wet Balance	D63>W – D=W – D<W63	1 – 64 – 127		●
11					
12					
13					
14					
15					
16					

## PHASER

## PHASER1, EP PHASER1, 2, 3

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz – 39.7Hz	0 – 127	Table #1	
2	LFO Depth	0 – 127	0 – 127		
3	Phase Shift Offset	0 – 127	0 – 127		
4	Feedback Level	-63 – 0 – +63	1 – 64 – 127		
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	Table #3	
7	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	Table #3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 127		●
11	Stage	4 – 22 (*3) 4 – 12 (*2)	4 – 22 4 – 12		
12	Diffusion	mono, stereo	0 – 1		
13					
14					
15					
16					

## V\_DIST ROCA, V\_DIST FUSION

No.	Parameter	Display	Value	See Table	Control
1	Overdrive	0% – 100%	0 – 100		
2	Device	Transistor, Vintage Tube, Dist1, Dist2, Fuzz	0 – 4		
3	Speaker	Flat, Stack, Combo, Twin, Radio, Megaphone	0 – 5		
4	Presence	0 – 20	0 – 20		
5	Output Level	0% – 100%	0 – 100		
6	Delay Time	64th/3 – 4thx6	0 – 19	Table #13	
7	Delay Feedback Level	-63 – 0 – +63	1 – 64 – 127		
8	L/R Diffusion	-63ms – 0ms – 63ms	1 – 64 – 127		
9	Lag	-63ms – 0ms – 63ms	1 – 64 – 127		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 127		●
11	Delay Mix	0 – 127	0 – 127		
12	Feedback High Dump	0.1 – 1.0	1 – 10		
13					
14					
15					
16					

ST AMP SOLID, ST AMP CRUNC, ST AMP BLUES, ST AMP CLEAN,  
ST AMP HARP, ST DIST HARD, ST DIST SOFT, ST AMP1, 2, 3, 4, 5, 6

No.	Parameter	Display	Value	See Table	Control
1	Drive	0 - 127	0 - 127		●
2	AMP Type	Off, Stack, Combo, Tube	0 - 3		
3	LPF Cutoff	1.0kHz - 18kHz, Thru	34 - 59, 60	Table #3	
4	Output Level	0 - 127	0 - 127		
5					
6					
7					
8					
9					
10	Dry/Wet	D63>W - D=W - D<W63	1 - 64 - 127		
11	Edge (Clip Curve)	0 - 127 (mild - sharp)	0 - 127		
12					
13					
14					
15					
16					

## DIST HARD1, DIST HARD2, DIST SOFT1, DIST SOFT2, AMP SIM1

No.	Parameter	Display	Value	See Table	Control
1	Drive	0 - 127	0 - 127		●
2	AMP Type	Off, Stack, Combo, Tube	0 - 3		
3	LPF Cutoff	1.0kHz - 18kHz, Thru	34 - 59, 60	Table #3	
4	Output Level	0 - 127	0 - 127		
5					
6					
7					
8					
9					
10	Dry/Wet	D63>W - D=W - D<W63	1 - 64 - 127		
11	Edge (Clip Curve)	0 - 127 (mild - sharp)	0 - 127		
12					
13					
14					
15					
16					

## DIST HEAVY, OVERDRIVE

No.	Parameter	Display	Value	See Table	Control
1	Drive	0 - 127	0 - 127		●
2	EQ Low Frequency	32Hz - 2.0kHz	4 - 40	Table #3	
3	EQ Low Gain	-12dB - 0dB - +12dB	52 - 64 - 76		
4	LPF Cutoff	1.0kHz - 18kHz, Thru	34 - 59, 60	Table #3	
5	Output Level	0 - 127	0 - 127		
6					
7	EQ Mid Frequency	100Hz - 10.0kHz	14 - 54	Table #3	
8	EQ Mid Gain	-12dB - 0dB - +12dB	52 - 64 - 76		
9	EQ Mid Width	0.1 - 12.0	1 - 120		
10	Dry/Wet	D63>W - D=W - D<W63	1 - 64 - 127		
11	Edge (Clip Curve)	0 - 127 (mild - sharp)	0 - 127		
12					
13					
14					
15					
16					

## ST DIST, ST OD

No.	Parameter	Display	Value	See Table	Control
1	Drive	0 - 127	0 - 127		●
2	EQ Low Frequency	32Hz - 2.0kHz	4 - 40	Table #3	
3	EQ Low Gain	-12dB - 0dB - +12dB	52 - 64 - 76		
4	LPF Cutoff	1.0kHz - 18kHz, Thru	34 - 59, 60	Table #3	
5	Output Level	0 - 127	0 - 127		
6					
7	EQ Mid Frequency	100Hz - 10.0kHz	14 - 54	Table #3	
8	EQ Mid Gain	-12dB - 0dB - +12dB	52 - 64 - 76		
9	EQ Mid Width	0.1 - 12.0	1 - 120		
10	Dry/Wet	D63>W - D=W - D<W63	1 - 64 - 127		
11	Edge (Clip Curve)	0 - 127	0 - 127		
12					
13					
14					
15					
16					

## AMP SIM2

No.	Parameter	Display	Value	See Table	Control
1	Drive	0 - 127	0 - 127		●
2	AMP Type	Off, Stack, Combo, Tube, Crunch, Hi gain, British	0 - 6		
3	LPF Cutoff	1.0kHz - 18kHz, Thru	34 - 59, 60	Table #3	
4	Output Level	0 - 127	0 - 127		
5					
6					
7					
8					
9					
10	Dry/Wet	D63>W - D=W - D<W63	1 - 64 - 127		
11					
12					
13					
14					
15					
16					

## DISTORTION+

## DST+DELAY1, DST+DELAY2, OD+DELAY1, OD+DELAY2

No.	Parameter	Display	Value	See Table	Control
1	Lch Delay Time	0.1ms - 1638.3ms	1 - 16383		
2	Rch Delay Time	0.1ms - 1638.3ms	1 - 16383		
3	Delay Feedback Time	0.1ms - 1638.3ms	1 - 16383		
4	Delay Feedback Level	-63 - 0 - +63	1 - 64 - 127		
5	Delay Mix	0 - 127	0 - 127		
6	Dist Drive	0 - 127	0 - 127		
7	Dist Output Level	0 - 127	0 - 127		
8	Dist EQ Low Gain	-12dB - 0dB - +12dB	52 - 64 - 76		
9	Dist EQ Mid Gain	-12dB - 0dB - +12dB	52 - 64 - 76		
10	Dry/Wet	D63>W - D=W - D<W63	1 - 64 - 127		●
11					
12					
13					
14					
15					
16					

## CMP+DST+DLY1, CMP+DST+DLY2, CMP+OD+DLY1, CMP+OD+DLY2

No.	Parameter	Display	Value	See Table	Control
1	Delay Time	0.1ms - 1638.3ms	1 - 16383		
2	Delay Feedback Level	-63 - 0 - +63	1 - 64 - 127		
3	Delay Mix	0 - 127	0 - 127		
4	Dist Drive	0 - 127	0 - 127		
5	Dist Output Level	0 - 127	0 - 127		
6	Dist EQ Low Gain	-12dB - 0dB - +12dB	52 - 64 - 76		
7	Dist EQ Mid Gain	-12dB - 0dB - +12dB	52 - 64 - 76		
8					
9					
10	Dry/Wet	D63>W - D=W - D<W63	1 - 64 - 127		●
11	Comp. Attack	1ms - 40ms	0 - 19	Table #8	
12	Comp. Release	10ms - 680ms	0 - 15	Table #9	
13	Comp. Threshold	-48dB - -6dB	79 - 121		
14	Comp. Ratio	1.0 - 20.0	0 - 7	Table #10	
15					
16					

## V\_DST H+DLY, V\_DST S+DLY

No.	Parameter	Display	Value	See Table	Control
1	Overdrive	0% - 100%	0 - 100		
2	Device	Transistor, Vintage Tube, Dist1, Dist2, Fuzz	0 - 4		
3	Speaker	Flat, Stack, Combo, Twin, Radio, Megaphone	0 - 5		
4	Presence	0 - 20	0 - 20		
5	Output Level	0% - 100%	0 - 100		
6	Delay Time L	0.1ms - 1638.3ms	1 - 16383		
7	Delay Time R	0.1ms - 1638.3ms	1 - 16383		
8	Delay Feedback Time	0.1ms - 1638.3ms	1 - 16383		
9	Delay Feedback Level	-63 - 0 - +63	1 - 64 - 127		
10	Dry/Wet Balance	D63>W - D=W - D<W63	1 - 64 - 127		●
11	Delay Mix	0 - 127	0 - 127		
12	Feedback High Dump	0.1 - 1.0	1 - 10		
13					
14					
15					
16					

## DST+TDLY, OD+TDLY

No.	Parameter	Display	Value	See Table	Control
1	Delay Time	64th/3 - 4thx6	0 - 19	Table #13	
2	Delay Feedback Level	-63 - 0 - +63	1 - 64 - 127		
3	Delay Mix	0 - 127	0 - 127		
4	Dist Drive	0 - 127	0 - 127		
5	Dist Output Level	0 - 127	0 - 127		
6	Dist EQ Low Gain	-12dB - 0dB - +12dB	52 - 64 - 76		
7	Dist EQ Mid Gain	-12dB - 0dB - +12dB	52 - 64 - 76		
8	L/R Diffusion	-63ms - 0ms - 63ms	1 - 64 - 127		
9	Lag	-63ms - 0ms - 63ms	1 - 64 - 127		
10	Dry/Wet	D63>W - D=W - D<W63	1 - 64 - 127		●
11					
12					
13					
14					
15					
16					

## COMP+DIST1, COMP+DIST2

No.	Parameter	Display	Value	See Table	Control
1	Drive	0 - 127	0 - 127		●
2	EQ Low Frequency	32Hz - 2.0kHz	4 - 40	Table #3	
3	EQ Low Gain	-12dB - 0dB - +12dB	52 - 64 - 76		
4	LPF Cutoff	1.0kHz - 18kHz, Thru	34 - 59, 60	Table #3	
5	Output Level	0 - 127	0 - 127		
6					
7	EQ Mid Frequency	100Hz - 10.0kHz	14 - 54	Table #3	
8	EQ Mid Gain	-12dB - 0dB - +12dB	52 - 64 - 76		
9	EQ Mid Width	0.1 - 12.0	1 - 120		
10	Dry/Wet	D63>W - D=W - D<W63	1 - 64 - 127		
11	Edge (Clip Curve)	0 - 127 (mild - sharp)	0 - 127		
12	Attack	1ms - 40ms	0 - 19	Table #8	
13	Release	10ms - 680ms	0 - 15	Table #9	
14	Threshold	-48dB - -6dB	79 - 121		
15	Ratio	1.0 - 20.0	0 - 7	Table #10	
16					

## CMP+DST+TDL, CMP+OD+TDLY1, 2, 3, 4, 5, 6

No.	Parameter	Display	Value	See Table	Control
1	Delay Time	64th/3 - 4thx6	0 - 19	Table #13	
2	Delay Feedback Level	-63 - 0 - +63	1 - 64 - 127		
3	Delay Mix	0 - 127	0 - 127		
4	Dist Drive	0 - 127	0 - 127		
5	Dist Output Level	0 - 127	0 - 127		
6	Dist EQ Low Gain	-12dB - 0dB - +12dB	52 - 64 - 76		
7	Dist EQ Mid Gain	-12dB - 0dB - +12dB	52 - 64 - 76		
8	L/R Diffusion	-63ms - 0ms - 63ms	1 - 64 - 127		
9	Lag	-63ms - 0ms - 63ms	1 - 64 - 127		
10	Dry/Wet	D63>W - D=W - D<W63	1 - 64 - 127		●
11	Comp. Attack	1ms - 40ms	0 - 19	Table #8	
12	Comp. Release	10ms - 680ms	0 - 15	Table #9	
13	Comp. Threshold	-48dB - -6dB	79 - 121		
14	Comp. Ratio	1.0 - 20.0	0 - 7	Table #10	
15					
16					

## V\_DST H+TDL1, V\_DST H+TDL2, V\_DST S+TDL1, V\_DST S+TDL2

No.	Parameter	Display	Value	See Table	Control
1	Overdrive	0% - 100%	0 - 100		
2	Device	Transistor, Vintage Tube, Dist1, Dist2, Fuzz	0 - 4		
3	Speaker	Flat, Stack, Combo, Twin, Radio, Megaphone	0 - 5		
4	Presence	0 - 20	0 - 20		
5	Output Level	0% - 100%	0 - 100		
6	Delay Time	64th/3 - 4thx6	0 - 19	Table #13	
7	Delay Feedback Level	-63 - 0 - +63	1 - 64 - 127		
8	L/R Diffusion	-63ms - 0ms - 63ms	1 - 64 - 127		
9	Lag	-63ms - 0ms - 63ms	1 - 64 - 127		
10	Dry/Wet	D63>W - D=W - D<W63	1 - 64 - 127		●
11	Delay Mix	0 - 127	0 - 127		
12	Feedback High Dump	0.1 - 1.0	1 - 10		
13					
14					
15					
16					

## PITCH CHANGE

## PITCH CHG1, PITCH CHG2

No.	Parameter	Display	Value	See Table	Control
1	Pitch	-24 - +24	40 - 88		
2	Initial Delay	0.1ms - 400.0ms	0 - 127	Table #7	
3	Fine 1	-50cent - 0cent - +50cent	14 - 64 - 114		
4	Fine 2	-50cent - 0cent - +50cent	14 - 64 - 114		
5	Feedback Level	-63 - 0 - +63	1 - 64 - 127		
6					
7					
8					
9					
10	Dry/Wet	D63>W - D=W - D<W63	1 - 64 - 127		●
11	Pan 1	L63 - C - R63	1 - 64 - 127		
12	Output Level 1	0 - 127	0 - 127		
13	Pan 2	L63 - C - R63	1 - 64 - 127		
14	Output Level 2	0 - 127	0 - 127		
15					
16					

## PITCH CHG3

No.	Parameter	Display	Value	See Table	Control
1	Pitch	-24 - +24	40 - 88		
2	Initial Delay	0.1ms - 400.0ms	0 - 127	Table #7	
3	Fine 1	-50cent - 0cent - +50cent	14 - 64 - 114		
4	Fine 2	-50cent - 0cent - +50cent	14 - 64 - 114		
5	Feedback Level	-63 - 0 - +63	1 - 64 - 127		
6					
7					
8					
9					
10	Dry/Wet	D63>W - D=W - D<W63	1 - 64 - 127		●
11	Pan 1	L63 - C - R63	1 - 64 - 127		
12	Output Level 1	0 - 127	0 - 127		
13	Pan 2	L63 - C - R63	1 - 64 - 127		
14	Output Level 2	0 - 127	0 - 127		
15					
16					

## WAH AUTO

## AUTO WAH1, AUTO WAH2

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz - 39.7Hz	0 - 127	Table #1	
2	LFO Depth	0 - 127	0 - 127		
3	Cutoff Frequency Offset	0 - 127	0 - 127		●
4	Resonance	1.0 - 12.0	10 - 120		
5					
6	EQ Low Frequency	32Hz - 2.0kHz	4 - 40	Table #3	
7	EQ Low Gain	-12dB - 0dB - +12dB	52 - 64 - 76		
8	EQ High Frequency	500Hz - 16.0kHz	28 - 58	Table #3	
9	EQ High Gain	-12dB - 0dB - +12dB	52 - 64 - 76		
10	Dry/Wet	D63>W - D=W - D<W63	1 - 64 - 127		
11	Drive	0 - 127	0 - 127		
12					
13					
14					
15					
16					

AT.WAH+DST1, 2, AT.WH+DST HD, AT.WH+DST HV, AT.WH+DST LT  
AT.WAH+OD1, 2, AT.WH+OD HD, AT.WH+OD HV, AT.WH+OD LT

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz - 39.7Hz	0 - 127	Table #1	
2	LFO Depth	0 - 127	0 - 127		
3	Cutoff Frequency Offset	0 - 127	0 - 127		●
4	Resonance	1.0 - 12.0	10 - 120		
5					
6	EQ Low Frequency	32Hz - 2.0kHz	4 - 40	Table #3	
7	EQ Low Gain	-12dB - 0dB - +12dB	52 - 64 - 76		
8	EQ High Frequency	500Hz - 16.0kHz	28 - 58	Table #3	
9	EQ High Gain	-12dB - 0dB - +12dB	52 - 64 - 76		
10	Dry/Wet	D63>W - D=W - D<W63	1 - 64 - 127		
11	Drive	0 - 127	0 - 127		
12	EQ Low Gain (distortion)	-12dB - 0dB - +12dB	52 - 64 - 76		
13	EQ Mid Gain (distortion)	-12dB - 0dB - +12dB	52 - 64 - 76		
14	LPF Cutoff	1.0kHz - 18kHz, Thru	34 - 59, 60	Table #3	
15	Output Level	0 - 127	0 - 127		
16					



## TEMPO AT.WAH

No.	Parameter	Display	Value	See Table	Control
1	LFO Freq	16th - 4thx16	5 - 29	Table #13	
2	LFO Depth	0 - 127	0 - 127		
3	Cutoff Frequency Offset	0 - 127	0 - 127		●
4	Resonance	1.0 - 12.0	10 - 120		
5					
6	EQ Low Frequency	32Hz - 2.0kHz	4 - 40	Table #3	
7	EQ Low Gain	-12dB - 0dB - +12dB	52 - 64 - 76		
8	EQ High Frequency	500Hz - 16.0kHz	28 - 58	Table #3	
9	EQ High Gain	-12dB - 0dB - +12dB	52 - 64 - 76		
10	Dry/Wet	D63>W - D=W - D<W63	1 - 64 - 127		
11	Drive	0 - 127	0 - 127		
12					
13					
14					
15					
16					

T\_AT.WH+DST, T\_A.WH+DSTHD, T\_A.WH+DSTHV, T\_A.WH+DSTLT  
T\_AT.WH+OD, T\_A.WH+OD HD, T\_A.WH+OD HV, T\_A.WH+OD LT

No.	Parameter	Display	Value	See Table	Control
1	LFO Freq	16th - 4thx16	5 - 29	Table #13	
2	LFO Depth	0 - 127	0 - 127		
3	Cutoff Frequency Offset	0 - 127	0 - 127		●
4	Resonance	1.0 - 12.0	10 - 120		
5					
6	EQ Low Frequency	32Hz - 2.0kHz	4 - 40	Table #3	
7	EQ Low Gain	-12dB - 0dB - +12dB	52 - 64 - 76		
8	EQ High Frequency	500Hz - 16.0kHz	28 - 58	Table #3	
9	EQ High Gain	-12dB - 0dB - +12dB	52 - 64 - 76		
10	Dry/Wet	D63>W - D=W - D<W63	1 - 64 - 127		
11	Drive	0 - 127	0 - 127		
12	EQ Low Gain (distortion)	-12dB - 0dB - +12dB	52 - 64 - 76		
13	EQ Mid Gain (distortion)	-12dB - 0dB - +12dB	52 - 64 - 76		
14	LPF Cutoff	1.0kHz - 18kHz, Thru	34 - 59, 60	Table #3	
15	Output Level	0 - 127	0 - 127		
16					

## WAH TCH/PDL

## TOUCH WAH1, TC.WH+DST1, TC.WH+DST2

No.	Parameter	Display	Value	See Table	Control
1	Sensitivity	0 - 127	0 - 127		●
2	Cutoff Frequency Offset	0 - 127	0 - 127		
3	Resonance	1.0 - 12.0	10 - 120		
4					
5					
6	EQ Low Frequency	32Hz - 2.0kHz	4 - 40	Table #3	
7	EQ Low Gain	-12dB - 0dB - +12dB	52 - 64 - 76		
8	EQ High Frequency	500Hz - 16.0kHz	28 - 58	Table #3	
9	EQ High Gain	-12dB - 0dB - +12dB	52 - 64 - 76		
10	Dry/Wet	D63>W - D=W - D<W63	1 - 64 - 127		
11	Drive	0 - 127	0 - 127		
12					
13					
14					
15					
16					

TOUCH WAH2, TOUCH WAH3, TC.WH+DST HD, TC.WH+DST HV,  
TC.WH+DST LT, TC.WH+OD1, 2, TC.WH+OD HD, TC.WH+OD HV,  
TC.WH+OD LT, CLAVI TC.WAH, EP TC.WAH

No.	Parameter	Display	Value	See Table	Control
1	Sensitivity	0 - 127	0 - 127		●
2	Cutoff Frequency Offset	0 - 127	0 - 127		
3	Resonance	1.0 - 12.0	10 - 120		
4					
5					
6	EQ Low Frequency	32Hz - 2.0kHz	4 - 40	Table #3	
7	EQ Low Gain	-12dB - 0dB - +12dB	52 - 64 - 76		
8	EQ High Frequency	500Hz - 16.0kHz	28 - 58	Table #3	
9	EQ High Gain	-12dB - 0dB - +12dB	52 - 64 - 76		
10	Dry/Wet	D63>W - D=W - D<W63	1 - 64 - 127		
11	Drive	0 - 127	0 - 127		
12	EQ Low Gain (distortion)	-12dB - 0dB - +12dB	52 - 64 - 76		
13	EQ Mid Gain (distortion)	-12dB - 0dB - +12dB	52 - 64 - 76		
14	LPF Cutoff	1.0kHz - 18kHz, Thru	34 - 59, 60	Table #3	
15	Output Level	0 - 127	0 - 127		
16	Release	10ms - 680ms	52 - 67	Table #12	

## WH+DST+DLY1, WH+DST+DLY2, WH+OD+DLY1, WH+OD+DLY2

No.	Parameter	Display	Value	See Table	Control
1	Delay Time	0.1ms - 1638.3ms	1 - 16383		
2	Delay Feedback Level	-63 - 0 - +63	1 - 64 - 127		
3	Delay Mix	0 - 127	0 - 127		
4	Dist Drive	0 - 127	0 - 127		
5	Dist Output Level	0 - 127	0 - 127		
6	Dist EQ Low Gain	-12dB - 0dB - +12dB	52 - 64 - 76		
7	Dist EQ Mid Gain	-12dB - 0dB - +12dB	52 - 64 - 76		
8					
9					
10	Dry/Wet	D63>W - D=W - D<W63	1 - 64 - 127		●
11	Wah Sensitivity	0 - 127	0 - 127		
12	Wah Cutoff Freq Offset	0 - 127	0 - 127		
13	Wah Resonance	1.0 - 12.0	10 - 120		
14	Wah Release	10ms - 680ms	52 - 67	Table #12	
15					
16					

## WH+DST+TDLY, WH+OD+TDLY1, WH+OD+TDLY2

No.	Parameter	Display	Value	See Table	Control
1	Delay Time	64th/3 - 4thx6	0 - 19	Table #13	
2	Delay Feedback Level	-63 - 0 - +63	1 - 64 - 127		
3	Delay Mix	0 - 127	0 - 127		
4	Dist Drive	0 - 127	0 - 127		
5	Dist Output Level	0 - 127	0 - 127		
6	Dist EQ Low Gain	-12dB - 0dB - +12dB	52 - 64 - 76		
7	Dist EQ Mid Gain	-12dB - 0dB - +12dB	52 - 64 - 76		
8	L/R Diffusion	-63ms - 0ms - 63ms	1 - 64 - 127		
9	Lag	-63ms - 0ms - 63ms	1 - 64 - 127		
10	Dry/Wet	D63>W - D=W - D<W63	1 - 64 - 127		●
11	Wah Sensitivity	0 - 127	0 - 127		
12	Wah Cutoff Freq Offset	0 - 127	0 - 127		
13	Wah Resonance	1.0 - 12.0	10 - 120		
14	Wah Release	10ms - 680ms	52 - 67	Table #12	
15					
16					

## PEDAL WAH

No.	Parameter	Display	Value	See Table	Control
1	Pedal Control	0 - 127	0 - 127		●
2	Depth	0 - 127	0 - 127		
3	Cutoff Frequency Offset	0 - 127	0 - 127		
4	Resonance	1.0 - 12.0	10 - 120		
5					
6	EQ Low Frequency	32Hz - 2.0kHz	4 - 40	Table #3	
7	EQ Low Gain	-12dB - 0dB - +12dB	52 - 64 - 76		
8	EQ High Frequency	500Hz - 16.0kHz	28 - 58	Table #3	
9	EQ High Gain	-12dB - 0dB - +12dB	52 - 64 - 76		
10	Dry/Wet	D63>W - D=W - D<W63	1 - 64 - 127		
11	Drive	0 - 127	0 - 127		
12					
13					
14					
15					
16					

PEDAL WH+DST, P.WH+DIST HD, P.WH+DIST HV, P.WH+DIST LT  
PEDAL WH+OD, P.WH+OD HD, P.WH+OD HV, P.WH+OD LT

No.	Parameter	Display	Value	See Table	Control
1	Pedal Control	0 - 127	0 - 127		●
2	Depth	0 - 127	0 - 127		
3	Cutoff Frequency Offset	0 - 127	0 - 127		
4	Resonance	1.0 - 12.0	10 - 120		
5					
6	EQ Low Frequency	32Hz - 2.0kHz	4 - 40	Table #3	
7	EQ Low Gain	-12dB - 0dB - +12dB	52 - 64 - 76		
8	EQ High Frequency	500Hz - 16.0kHz	28 - 58	Table #3	
9	EQ High Gain	-12dB - 0dB - +12dB	52 - 64 - 76		
10	Dry/Wet	D63>W - D=W - D<W63	1 - 64 - 127		
11	Drive	0 - 127	0 - 127		
12	EQ Low Gain (distortion)	-12dB - 0dB - +12dB	52 - 64 - 76		
13	EQ Mid Gain (distortion)	-12dB - 0dB - +12dB	52 - 64 - 76		
14	LPF Cutoff	1.0kHz - 18kHz, Thru	34 - 59, 60	Table #3	
15	Output Level	0 - 127	0 - 127		
16					

## DYNAMIC

## COMP MED, COMP HEAVY, COMPRESSOR

No.	Parameter	Display	Value	See Table	Control
1	Attack	1ms – 40ms	0 – 19	Table #8	
2	Release	10ms – 680ms	0 – 15	Table #9	
3	Threshold	-48dB – -6dB	79 – 121	Table #10	
4	Ratio	1.0 – 20.0	0 – 7		
5	Output Level	0 – 127	0 – 127		
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

## COMP MELODY, COMP BASS, MBAND COMP

No.	Parameter	Display	Value	See Table	Control
1	Type	Normal, Low, Mid, High, Low/High, Low/Mid, Mid/High, Full Bit, Wild, Attacky, Low End, Hard, Basic	0 – 12		●
2	Threshold Offset	-32 – +32	32 – 96		
3	Low Gain Offset	-63 – 0 – +63	1 – 64 – 127		
4	Mid Gain Offset	-63 – 0 – +63	1 – 64 – 127		
5	High Gain Offset	-63 – 0 – +63	1 – 64 – 127		
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

## NOISE GATE

No.	Parameter	Display	Value	See Table	Control
1	Attack	1ms – 40ms	0 – 19	Table #8	
2	Release	10ms – 680ms	0 – 15	Table #9	
3	Threshold	-72dB – -30dB	55 – 97		
4	Output Level	0 – 127	0 – 127		
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

## ROTARY SP

## DUAL ROT BRT, DUAL ROT WRM, DUAL ROT SP1, 2

No.	Parameter	Display	Value	See Table	Control
1	Rotor Speed Slow	0.00Hz – 2.65Hz	0 – 63	Table #1	●
2	Horn Speed Slow	0.00Hz – 2.65Hz	0 – 63	Table #1	
3	Rotor Speed Fast	2.69Hz – 39.7Hz	64 – 127	Table #1	
4	Horn Speed Fast	2.69Hz – 39.7Hz	64 – 127	Table #1	
5	Slow-Fast Time of R	0 – 127	0 – 127		
6	Slow-Fast Time of H	0 – 127	0 – 127		
7	Drive Low	0 – 127	0 – 127		
8	Drive High	0 – 127	0 – 127		
9	Low/High Balance	L63>H – L=H – L<H63	1 – 64 – 127		
10					
11	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	Table #3	
12	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
13	EQ High Frequency	500Hz – 16.0kHz	28 – 58	Table #3	
14	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
15	Mic L-R Angle	0deg – 180deg	0 – 60		
16	Speed Control	Slow, Fast	0 – 1		

## ROTARY SP1, ROTARY SP6

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz – 39.7Hz	0 – 127	Table #1	●
2	LFO Depth	0 – 127	0 – 127		
3					
4					
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	Table #3	
7	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	Table #3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 127		
11	EQ Mid Frequency (*3)	100Hz – 10.0kHz	14 – 54	Table #3	
12	EQ Mid Gain (*3)	-12dB – 0dB – +12dB	52 – 64 – 76		
13	EQ Mid Width (*3)	0.1 – 12.0	1 – 120		
14					
15					
16					

## ROTARY SP2, 3, 7

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz – 39.7Hz	0 – 127	Table #1	●
2	L/R Depth	0 – 127	0 – 127		
3	F/R Depth	0 – 127	0 – 127		
4	PAN Direction	L<->R, L>R, L<-R, Lturn, Rturn, L/R	0 – 5		
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	Table #3	
7	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	Table #3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10					
11	EQ Mid Frequency (*3)	100Hz – 10.0kHz	14 – 54	Table #3	
12	EQ Mid Gain (*3)	-12dB – 0dB – +12dB	52 – 64 – 76		
13	EQ Mid Width (*3)	0.1 – 12.0	1 – 120		
14					
15					
16					

## ROTARY SP4

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz – 39.7Hz	0 – 127	Table #1	●
2	AM Depth	0 – 127	0 – 127		
3	PM Depth	0 – 127	0 – 127		
4					
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	Table #3	
7	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	Table #3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10					
11	EQ Mid Frequency (*3)	100Hz – 10.0kHz	14 – 54	Table #3	
12	EQ Mid Gain (*3)	-12dB – 0dB – +12dB	52 – 64 – 76		
13	EQ Mid Width (*3)	0.1 – 12.0	1 – 120		
14	LFO Phase Difference	-180deg – 0deg – +180deg	4 – 64 – 124	resolution =3deg.	
15	Input Mode	mono, stereo	0 – 1		
16					

## ROTARY SP5

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz – 39.7Hz	0 – 127	Table #1	●
2	LFO Depth	0 – 127	0 – 127		
3	Feedback Level	-63 – 0 – +63	1 – 64 – 127		
4	Delay Offset	0.0ms – 50ms	0 – 127	Table #2	
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	Table #3	
7	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	Table #3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 127		
11	EQ Mid Frequency (*3)	100Hz – 10.0kHz	14 – 54	Table #3	
12	EQ Mid Gain (*3)	-12dB – 0dB – +12dB	52 – 64 – 76		
13	EQ Mid Width (*3)	0.1 – 12.0	1 – 120		
14					
15	Input Mode	mono, stereo	0 – 1		
16					

## 2WAY ROT SP

No.	Parameter	Display	Value	See Table	Control
1	Rotor Speed	0.00Hz – 39.7Hz	0 – 127	Table #1	●
2	Drive Low	0 – 127	0 – 127		
3	Drive High	0 – 127	0 – 127		
4	Low/High	L63>H – L=H – L<H63	1 – 64 – 127		
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	Table #3	
7	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	Table #3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10					
11	Crossover Frequency	100Hz – 10.0kHz	14 – 54	Table #3	
12	Mic L-R Angle	0deg – 180deg	0 – 60	resolution =3deg.	
13					
14					
15					
16					

## AMP+2ROT SP

No.	Parameter	Display	Value	See Table	Control
1	Rotor Speed	0.00Hz – 39.7Hz	0 – 127	Table #1	●
2	Drive Low	0 – 127	0 – 127		
3	Drive High	0 – 127	0 – 127		
4	Low/High Balance	L63>H – L=H – L<H63	1 – 64 – 127		
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	Table #3	
7	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	Table #3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10					
11	Crossover Frequency	100Hz – 10.0kHz	14 – 54	Table #3	
12	Mic L-R Angle	0deg – 180deg	0 – 60		
13	AMP Type	Off, Stack, Combo, Tube (AMPSIM only)	0 – 3		
14	Drive	0 – 127	0 – 127		
15	LPF Cutoff	1.0kHz – 18kHz, Thru	34 – 59, 60	Table #3	
16	Output Level	0 – 127	0 – 127		

## DST+ROT SP, OD+ROT SP

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz – 39.7Hz	0 – 127	Table #1	●
2	LFO Depth	0 – 127	0 – 127		
3					
4					
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	Table #3	
7	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	Table #3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 127		
11					
12					
13					
14	Drive	0 – 127	0 – 127		
15	LPF Cutoff	1.0kHz – 18kHz, Thru	34 – 59, 60	Table #3	
16	Output Level	0 – 127	0 – 127		

## DST+2ROT SP, OD+2ROT SP

No.	Parameter	Display	Value	See Table	Control
1	Rotor Speed	0.00Hz – 39.7Hz	0 – 127	Table #1	●
2	Drive Low	0 – 127	0 – 127		
3	Drive High	0 – 127	0 – 127		
4	Low/High Balance	L63>H – L=H – L<H63	1 – 64 – 127		
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	Table #3	
7	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	Table #3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10					
11	Crossover Frequency	100Hz – 10.0kHz	14 – 54	Table #3	
12	Mic L-R Angle	0deg – 180deg	0 – 60		
13					
14	Drive	0 – 127	0 – 127		
15	LPF Cutoff	1.0kHz – 18kHz, Thru	34 – 59, 60	Table #3	
16	Output Level	0 – 127	0 – 127		

## AMP+ROT SP

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz – 39.7Hz	0 – 127	Table #1	●
2	LFO Depth	0 – 127	0 – 127		
3	AMP Type	Off, Stack, Combo, Tube	0 – 3		
4					
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	Table #3	
7	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	Table #3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 127		
11					
12					
13					
14	Drive	0 – 127	0 – 127		
15	LPF Cutoff	1.0kHz – 18kHz, Thru	34 – 59, 60	Table #3	
16	Output Level	0 – 127	0 – 127		

## TREMOLO

## TREMOLO1, TREMOLO3, EP TREMOLO, GT TREMOLO2

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz – 39.7Hz	0 – 127	Table #1	●
2	AM Depth	0 – 127	0 – 127		
3	PM Depth	0 – 127	0 – 127		
4					
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	Table #3	
7	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	Table #3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10					
11	EQ Mid Frequency (*3)	100Hz – 10.0kHz	14 – 54	Table #3	
12	EQ Mid Gain (*3)	-12dB – 0dB – +12dB	52 – 64 – 76		
13	EQ Mid Width (*3)	0.1 – 12.0	1 – 120		
14	LFO Phase Difference	-180deg – 0deg – +180deg	4 – 64 – 124	resolution =3deg.	
15	Input Mode	mono, stereo	0 – 1		
16					

## TREMOLO2, GT TREMOLO1

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz – 39.7Hz	0 – 127	Table #1	●
2	L/R Depth	0 – 127	0 – 127		
3	F/R Depth	0 – 127	0 – 127		
4	PAN Direction	L<->R, L->R, L<-R, Lturn, Rturn, L/R	0 – 5		
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	Table #3	
7	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	Table #3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10					
11	EQ Mid Frequency (*3)	100Hz – 10.0kHz	14 – 54	Table #3	
12	EQ Mid Gain (*3)	-12dB – 0dB – +12dB	52 – 64 – 76		
13	EQ Mid Width (*3)	0.1 – 12.0	1 – 120		
14					
15					
16					

## VIBE VIBRATE

No.	Parameter	Display	Value	See Table	Control
1	Vibrate Speed	0.00Hz – 39.7Hz	0 – 127	Table #1	
2	Vibrate Depth (AM)	0 – 127	0 – 127		
3	Vibrate Depth (PM)	0 – 127	0 – 127		
4					
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	Table #3	
7	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	Table #3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10	Dry/Wet Balance	D63>W – D=W – D<W63	1 – 64 – 127		
11	EQ Mid Frequency (*3)	100Hz – 10.0kHz	14 – 54	Table #3	
12	EQ Mid Gain (*3)	-12dB – 0dB – +12dB	52 – 64 – 76		
13	EQ Mid Width (*3)	0.1 – 12.0	1 – 120		
14	LFO Phase Difference	-180deg – 0deg – +180deg	4 – 64 – 124	resolution =3deg.	
15	Input Mode	mono, stereo	0 – 1		
16	Vibrate SW	Off, On	0 – 1		●

## T\_TREMOLO

No.	Parameter	Display	Value	See Table	Control
1	LFO Freq	16th – 4thx16	5 – 29	Table #13	●
2	AM Depth	0 – 127	0 – 127		
3	PM Depth	0 – 127	0 – 127		
4					
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	Table #3	
7	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	Table #3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10					
11	EQ Mid Frequency (*3)	100Hz – 10.0kHz	14 – 54	Table #3	
12	EQ Mid Gain (*3)	-12dB – 0dB – +12dB	52 – 64 – 76		
13	EQ Mid Width (*3)	0.1 – 12.0	1 – 120		
14	LFO Phase Difference	-180deg – 0deg – +180deg	4 – 64 – 124	resolution =3deg.	
15	Input Mode	mono, stereo	0 – 1		
16					

## T\_AUTO PAN2

No.	Parameter	Display	Value	See Table	Control
1	LFO Freq	16th – 4thx16	5 – 29	Table #13	●
2	L/R Depth	0 – 127	0 – 127		
3	F/R Depth	0 – 127	0 – 127		
4	PAN Direction	L<->R, L->R, L<-R, Lturn, Rturn, L/R	0 – 5		
5	LFO Wave	0 – 28	0 – 28		
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	Table #3	
7	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	Table #3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10					
11	EQ Mid Frequency (*3)	100Hz – 10.0kHz	14 – 54	Table #3	
12	EQ Mid Gain (*3)	-12dB – 0dB – +12dB	52 – 64 – 76		
13	EQ Mid Width (*3)	0.1 – 12.0	1 – 120		
14					
15	Input Mode	mono, stereo	0 – 1		
16					

## SPATIAL

## AUTO PAN1, AUTO PAN2, EP AUTO PAN

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz – 39.7Hz	0 – 127	Table #1	●
2	L/R Depth	0 – 127	0 – 127		
3	F/R Depth	0 – 127	0 – 127		
4	PAN Direction	L<->R, L->R, L<-R, Lturn, Rturn, L/R	0 – 5		
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	Table #3	
7	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	Table #3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10					
11	EQ Mid Frequency (*3)	100Hz – 10.0kHz	14 – 54	Table #3	
12	EQ Mid Gain (*3)	-12dB – 0dB – +12dB	52 – 64 – 76		
13	EQ Mid Width (*3)	0.1 – 12.0	1 – 120		
14					
15					
16					

## AUTO PAN3

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz – 39.7Hz	0 – 127	Table #1	●
2	L/R Depth	0 – 127	0 – 127		
3	F/R Depth	0 – 127	0 – 127		
4	PAN Direction	L<->R, L->R, L<-R, Lturn, Rturn, L/R	0 – 5		
5	LFO Wave	0 – 28	0 – 28		
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	Table #3	
7	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	Table #3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10					
11	EQ Mid Frequency (*3)	100Hz – 10.0kHz	14 – 54	Table #3	
12	EQ Mid Gain (*3)	-12dB – 0dB – +12dB	52 – 64 – 76		
13	EQ Mid Width (*3)	0.1 – 12.0	1 – 120		
14					
15	Input Mode	mono, stereo	0 – 1		
16					

## T\_AUTO PAN1

No.	Parameter	Display	Value	See Table	Control
1	LFO Freq	16th – 4thx16	5 – 29	Table #13	●
2	L/R Depth	0 – 127	0 – 127		
3	F/R Depth	0 – 127	0 – 127		
4	PAN Direction	L<->R, L->R, L<-R, Lturn, Rturn, L/R	0 – 5		
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	Table #3	
7	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	Table #3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10					
11	EQ Mid Frequency (*3)	100Hz – 10.0kHz	14 – 54	Table #3	
12	EQ Mid Gain (*3)	-12dB – 0dB – +12dB	52 – 64 – 76		
13	EQ Mid Width (*3)	0.1 – 12.0	1 – 120		
14					
15					
16					

## EQ/ENHANCER

## EQ DISCO, EQ TEL, 3BAND EQ, ST 3BAND EQ

No.	Parameter	Display	Value	See Table	Control
1	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
2	EQ Mid Frequency	100Hz – 16.0kHz	14 – 58	Table #3	
3	EQ Mid Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
4	EQ Mid Width	0.1 – 12.0	1 – 120		
5	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
6	EQ Low Frequency	50Hz – 2.0kHz	8 – 40	Table #3	
7	EQ High Frequency	500Hz – 16.0kHz	28 – 58	Table #3	
8					
9					
10					
11					
12					
13					
14					
15	Input Mode	mono, stereo	0 – 1		
16					

## 2BAND EQ

No.	Parameter	Display	Value	See Table	Control
1	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	Table #3	
2	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
3	EQ High Frequency	500Hz – 16.0kHz	28 – 58	Table #3	
4	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

## HM ENHANCE1, HM ENHANCE2

No.	Parameter	Display	Value	See Table	Control
1	HPF Cutoff	500Hz – 16.0kHz	28 – 58		
2	Drive	0 – 127	0 – 127		
3	Mix Level	0 – 127	0 – 127		
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

## MISC

## VCE CANCEL

No.	Parameter	Display	Value	See Table	Control
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11	Low Adjust	0 - 26	0 - 26		
12	High Adjust	0 - 26	0 - 26		
13					
14					
15					
16					

## AMBIENCE

No.	Parameter	Display	Value	See Table	Control
1	Delay Time	0.0ms - 50ms	0 - 127	Table #2	
2	Output Phase	normal, inverse	0 - 1		
3					
4					
5					
6	EQ Low Frequency	32Hz - 2.0kHz	4 - 40	Table #3	
7	EQ Low Gain	-12dB - 0dB - +12dB	52 - 64 - 76		
8	EQ High Frequency	500Hz - 16.0kHz	28 - 58	Table #3	
9	EQ High Gain	-12dB - 0dB - +12dB	52 - 64 - 76		
10	Dry/Wet	D63>W - D=W - D<W63	1 - 64 - 127		●
11					
12					
13					
14					
15					
16					

## TALKING MOD

No.	Parameter	Display	Value	See Table	Control
1	Vowel	a, i, u, e, o	0 - 4		●
2	Move speed	1 - 62	1 - 62		
3	Drive	0 - 127	0 - 127		
4	Output Level	0 - 127	0 - 127		
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

## LO-FI DRUM3, LO-FI DRUM4

No.	Parameter	Display	Value	See Table	Control
1	EQ Low Gain	-12dB - 0dB - +12dB	52 - 64 - 76		
2	EQ Mid Frequency	100Hz - 16.0kHz	14 - 58	Table #3	
3	EQ Mid Gain	-12dB - 0dB - +12dB	52 - 64 - 76		
4	EQ Mid Width	0.1 - 12.0	1 - 120		
5	EQ High Gain	-12dB - 0dB - +12dB	52 - 64 - 76		
6	EQ Low Frequency	50Hz - 2.0kHz	8 - 40	Table #3	
7	EQ High Frequency	500Hz - 16.0kHz	28 - 58	Table #3	
8					
9					
10					
11					
12					
13					
14					
15	Input Mode	mono, stereo	0 - 1		
16					

## ISOLATOR

No.	Parameter	Display	Value	See Table	Control
1	On/off SW	Off, On	0 - 1		●
2	Low Level	0 - 127	0 - 127		
3	Mid Level	0 - 127	0 - 127		
4	High Level	0 - 127	0 - 127		
5	Low Mute	Off, On	0 - 1		
6	Mid Mute	Off, On	0 - 1		
7	High Mute	Off, On	0 - 1		
8					
9					
10					
11					
12					
13					
14					
15					
16					

## NO EFFECT

## NO EFFECT

No.	Parameter	Display	Value	See Table	Control
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

## THRU

## THRU

No.	Parameter	Display	Value	See Table	Control
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					



**Table #6**  
Room Size

Data	Value	Data	Value
0	0.1	64	10.1
1	0.3	65	10.3
2	0.4	66	10.4
3	0.6	67	10.6
4	0.7	68	10.8
5	0.9	69	10.9
6	1.0	70	11.1
7	1.2	71	11.2
8	1.4	72	11.4
9	1.5	73	11.5
10	1.7	74	11.7
11	1.8	75	11.9
12	2.0	76	12.0
13	2.1	77	12.2
14	2.3	78	12.3
15	2.5	79	12.5
16	2.6	80	12.6
17	2.8	81	12.8
18	2.9	82	12.9
19	3.1	83	13.1
20	3.2	84	13.3
21	3.4	85	13.4
22	3.5	86	13.6
23	3.7	87	13.7
24	3.9	88	13.9
25	4.0	89	14.0
26	4.2	90	14.2
27	4.3	91	14.4
28	4.5	92	14.5
29	4.6	93	14.7
30	4.8	94	14.8
31	5.0	95	15.0
32	5.1	96	15.1
33	5.3	97	15.3
34	5.4	98	15.5
35	5.6	99	15.6
36	5.7	100	15.8
37	5.9	101	15.9
38	6.1	102	16.1
39	6.2	103	16.2
40	6.4	104	16.4
41	6.5	105	16.6
42	6.7	106	16.7
43	6.8	107	16.9
44	7.0	108	17.0
45	7.2	109	17.2
46	7.3	110	17.3
47	7.5	111	17.5
48	7.6	112	17.6
49	7.8	113	17.8
50	7.9	114	18.0
51	8.1	115	18.1
52	8.2	116	18.3
53	8.4	117	18.4
54	8.6	118	18.6
55	8.7	119	18.7
56	8.9	120	18.9
57	9.0	121	19.1
58	9.2	122	19.2
59	9.3	123	19.4
60	9.5	124	19.5
61	9.7	125	19.7
62	9.8	126	19.8
63	10.0	127	20.0

**Table #7**  
Delay Time (0.1 – 400.0 [ms])

Data	Value	Data	Value
0	0.1	64	201.6
1	3.2	65	204.8
2	6.4	66	207.9
3	9.5	67	211.1
4	12.7	68	214.2
5	15.8	69	217.4
6	19.0	70	220.5
7	22.1	71	223.7
8	25.3	72	226.8
9	28.4	73	230.0
10	31.6	74	233.1
11	34.7	75	236.3
12	37.9	76	239.4
13	41.0	77	242.6
14	44.2	78	245.7
15	47.3	79	248.9
16	50.5	80	252.0
17	53.6	81	255.2
18	56.8	82	258.3
19	59.9	83	261.5
20	63.1	84	264.6
21	66.2	85	267.7
22	69.4	86	270.9
23	72.5	87	274.0
24	75.7	88	277.2
25	78.8	89	280.3
26	82.0	90	283.5
27	85.1	91	286.6
28	88.3	92	289.8
29	91.4	93	292.9
30	94.6	94	296.1
31	97.7	95	299.2
32	100.9	96	302.4
33	104.0	97	305.5
34	107.2	98	308.7
35	110.3	99	311.8
36	113.5	100	315.0
37	116.6	101	318.1
38	119.8	102	321.3
39	122.9	103	324.4
40	126.1	104	327.6
41	129.2	105	330.7
42	132.4	106	333.9
43	135.5	107	337.0
44	138.6	108	340.2
45	141.8	109	343.3
46	144.9	110	346.5
47	148.1	111	349.6
48	151.2	112	352.8
49	154.4	113	355.9
50	157.5	114	359.1
51	160.7	115	362.2
52	163.8	116	365.4
53	167.0	117	368.5
54	170.1	118	371.7
55	173.3	119	374.8
56	176.4	120	378.0
57	179.6	121	381.1
58	182.7	122	384.3
59	185.9	123	387.4
60	189.0	124	390.6
61	192.2	125	393.7
62	195.3	126	396.9
63	198.5	127	400.0

**Table #8**  
Compressor Attack Time

Data	Value	Data	Value
0	1	10	12
1	2	11	14
2	3	12	16
3	4	13	18
4	5	14	20
5	6	15	23
6	7	16	26
7	8	17	30
8	9	18	35
9	10	19	40

**Table #9**  
Compressor Release Time

Data	Value	Data	Value
0	10	8	85
1	15	9	100
2	25	10	115
3	35	11	140
4	45	12	170
5	55	13	230
6	65	14	340
7	75	15	680

**Table #10**  
Compressor Ratio

Data	Value	Data	Value
0	1.0	4	5.0
1	1.5	5	7.0
2	2.0	6	10.0
3	3.0	7	20.0

**Table #11**  
Reverb Width; Depth; Height

Data	Value	Data	Value
0	0.5	53	14.5
1	0.8	54	14.8
2	1.0	55	15.1
3	1.3	56	15.4
4	1.5	57	15.6
5	1.8	58	15.9
6	2.0	59	16.2
7	2.3	60	16.5
8	2.6	61	16.8
9	2.8	62	17.1
10	3.1	63	17.3
11	3.3	64	17.6
12	3.6	65	17.9
13	3.9	66	18.2
14	4.1	67	18.5
15	4.4	68	18.8
16	4.6	69	19.1
17	4.9	70	19.4
18	5.2	71	19.7
19	5.4	72	20.0
20	5.7	73	20.2
21	5.9	74	20.5
22	6.2	75	20.8
23	6.5	76	21.1
24	6.7	77	21.4
25	7.0	78	21.7
26	7.2	79	22.0
27	7.5	80	22.4
28	7.8	81	22.7
29	8.0	82	23.0
30	8.3	83	23.3
31	8.6	84	23.6
32	8.8	85	23.9
33	9.1	86	24.2
34	9.4	87	24.5
35	9.6	88	24.9
36	9.9	89	25.2
37	10.2	90	25.5
38	10.4	91	25.8
39	10.7	92	26.1
40	11.0	93	26.5
41	11.2	94	26.8
42	11.5	95	27.1
43	11.8	96	27.5
44	12.1	97	27.8
45	12.3	98	28.1
46	12.6	99	28.5
47	12.9	100	28.8
48	13.1	101	29.2
49	13.4	102	29.5
50	13.7	103	29.9
51	14.0	104	30.2
52	14.2		

**Table #12**  
**Wah Release Time**

Data	Value	Data	Value
52	10	60	85
53	15	61	100
54	25	62	115
55	35	63	140
56	45	64	170
57	55	65	230
58	65	66	340
59	75	67	680

**Table #13**  
**Tempo**

Data	Value	Data	Value
0	64th/3	39	4thX26
1	64th.	40	4thX27
2	32th	41	4thX28
3	32th/3	42	4thX29
4	32th.	43	4thX30
5	16th	44	4thX31
6	16th/3	45	4thX32
7	16th.	46	4thX33
8	8th	47	4thX34
9	8th/3	48	4thX35
10	8th.	49	4thX36
11	4th	50	4thX37
12	4th/3	51	4thX38
13	4th.	52	4thX39
14	2nd	53	4thX40
15	2nd/3	54	4thX41
16	2nd.	55	4thX42
17	4thX4	56	4thX43
18	4thX5	57	4thX44
19	4thX6	58	4thX45
20	4thX7	59	4thX46
21	4thX8	60	4thX47
22	4thX9	61	4thX48
23	4thX10	62	4thX49
24	4thX11	63	4thX50
25	4thX12	64	4thX51
26	4thX13	65	4thX52
27	4thX14	66	4thX53
28	4thX15	67	4thX54
29	4thX16	68	4thX55
30	4thX17	69	4thX56
31	4thX18	70	4thX57
32	4thX19	71	4thX58
33	4thX20	72	4thX59
34	4thX21	73	4thX60
35	4thX22	74	4thX61
36	4thX23	75	4thX62
37	4thX24	76	4thX63
38	4thX25	77	4thX64





## MIDI CHANNEL MESSAGE (1)

適用範囲	MIDI, 本体シーケンサー
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MIDI Events	Status byte		1st Data byte			2nd Data byte			MIDI規格	MIDI受信			MIDI送信	
	Status	Data (Hex)	Data (Hex)	Parameter	Data (Hex)	Parameter	Song	R1 R2 L		Keyboard (全手弾きパート)	Panel (主な出力方法)	Song		
Key Off	8nH (n: Channel Number)	kk		Key no. (0-127)	vv	Velocity (0-127)	[GM1] [GM2]	○	○	○	○	○	○	
Key On	9nH (n: Channel Number)	kk		Key no. (0-127)	vv	Key On: vv=1-127 Key Off: vv=0	[GM1] [GM2]	○	○	○	○	○	○	
Control Change	BnH	0 (00H)		Bank Select MSB	0 (00H) 64 (40H) 118 (76H) 119 (77H) 120 (78H) 121 (79H) 126 (7EH) 127 (7FH)	Normal SFX Voice GS Rhythm GS Normal GM2 Rhythm GM2 Normal SFX kit Drum kit	[GM2]	○	○	×	○	○	○	
		1 (01H)		Modulation	0-127 (00H...7FH)	Data	[GM1] [GM2]	○	○	○	×	○	○	
		5 (05H)		Portamento Time	0-127 (00H...7FH)	Data	[GM2]	○	○	○	×	○	○	
		6 (06H)		Data Entry MSB	0-127 (00H...7FH)	Data	[GM2]	○	○	○	○	(Function)	○	
		7 (07H)		Main Volume	0-127 (00H...7FH)	Data	[GM1] [GM2]	○	○	○	○	(Function)	○	
		10 (0AH)		Panpot	0-127 (00H...7FH)	L64...C...R63	[GM1] [GM2]	○	○	○	○	(Function)	○	
		11 (0BH)		Expression	0-127 (00H...7FH)	Data	[GM1] [GM2]	○	○	○	○	(Pedal)	○	
		32 (20H)		Bank Select LSB	0-127 (00H...7FH)	Data	[GM2]	○	○	×	○	(Voice)	○	
		38 (26H)		Data Entry LSB	0-127 (00H...7FH)	Data	[GM2]	○	○	○	○	(Function)	○	
		64 (40H)		Sustain (Damper)	0-127 (00H...7FH)	Data	[GM1] [GM2]	○	○	○	○	(Pedal)	○	
		65 (41H)		Portamento	0-127 (00H...7FH)	0...63, 64...127 (OFF, ON)	[GM2]	○	○	○	○	×	○	
		66 (42H)		Sostenuto	0-127 (00H...7FH)	0...63, 64...127 (OFF, ON)	[GM2]	○	○	○	○	(Pedal)	○	
		67 (43H)		Soft Pedal	0-127 (00H...7FH)	0...63, 64...127 (OFF, ON)	[GM2]	○	○	○	○	(Pedal)	○	
		71 (47H)		Harmonic Content	0-127 (00H...7FH)	-64...0...+63	[GM2]	○	○	○	○	(Function)	○	
		72 (48H)		Release Time	0-127 (00H...7FH)	-64...0...+63	[GM2]	○	○	○	○	×	○	
		73 (49H)		Attack Time	0-127 (00H...7FH)	-64...0...+63	[GM2]	○	○	○	○	×	○	
		74 (4AH)		Brightness	0-127 (00H...7FH)	-64...0...+63	[GM2]	○	○	○	○	(Function)	○	
		75 (4BH)		Decay Time	0-127 (00H...7FH)	-64...0...+63	[GM2]	○	○	○	○	×	○	
		76 (4CH)		Vibrate Rate	0-127 (00H...7FH)	-64...0...+63	[GM2]	○	○	○	○	×	○	
		77 (4DH)		Vibrate Depth	0-127 (00H...7FH)	-64...0...+63	[GM2]	○	○	○	○	×	○	
		78 (4EH)		Vibrate Delay	0-127 (00H...7FH)	-64...0...+63	[GM2]	○	○	○	○	×	○	
		84 (54H)		Portamento Control	0-127 (00H...7FH)	Key no. (0-127)	[GM2]	○	○	×	○	×	○	
		91 (5BH)		Effect1 Depth (Reverb Send Level)	0-127 (00H...7FH)	Data	[GM2]	○	○	○	○	(Function)	○	
		93 (5DH)		Effect3 Depth (Chorus Send Level)	0-127 (00H...7FH)	Data	[GM2]	○	○	○	○	(Function)	○	
		94 (5EH)		Effect4 Depth (Variation Send Level)	0-127 (00H...7FH)	Data	[GM2]	○	○	○	○	×	○	
		96 (60H)		RPN Increment	-	-	データバイトは無視します。	[GM2]	○	○	×	×	○	
		97 (61H)		RPN Decrement	-	-	データバイトは無視します。	[GM2]	○	○	×	×	○	
		98 (62H)		NRPN LSB	0-127 (00H...7FH)	Data	[GM2]	○	×	×	×	×	○	
		99 (63H)		NRPN MSB	0-127 (00H...7FH)	Data	[GM2]	○	×	×	×	×	○	
		100 (64H)		RPN LSB	0-127 (00H...7FH)	Data	[GM2]	○	○	○	○	(Function)	○	
101 (65H)		RPN MSB	0-127 (00H...7FH)	Data	[GM2]	○	○	○	○	(Function)	○			
Mode Message	BnH (n: Channel Number)	120 (78H)		All Sound Off	0 (00H)	Data	[GM2]	○	○	○	×	○		
		121 (79H)		Reset All Controllers	0 (00H)	Data	[GM1] [GM2]	○	×	×	×	○		
		122 (7AH)		Local Control	0 (00H) 127 (7FH)	OFF ON	[GM2]			○	×	×		
		123 (7BH)		All Note Off	0 (00H)	Data	[GM1] [GM2]	○	○	○	×	○		
		124 (7CH)		Omni Off	0 (00H)	Data	[GM2]	○	×	×	×	○		
		125 (7DH)		Omni On	0 (00H)	Data	[GM2]	○	×	×	×	○		
		126 (7EH) 127 (7FH)		Mono Poly	0-16 (00H...10H) 0 (00H)	Data	[GM2]	○	×	×	×	○		
Program Change	CnH (n: Channel Number)	pp (00H...7FH)		ボイス番号 (0-127)	-	-	[GM1] [GM2]	○	○	×	○	○		
Channel After Touch	DnH (n: Channel Number)	vv (00H...7FH)		Data	-	-	[GM1] [GM2]	○	○	○	×	○		
Polyphonic After Touch	AnH (n: Channel Number)	kk (00H...7FH)		Key no. (0-127)	vv (00H...7FH)	Data	[GM2]	○	×	×	×	○		
Pitch Bend Change	EnH (n: Channel Number)	cc (00H...7FH)		LSB	dd (00H...7FH)	MSB	[GM1] [GM2]	○	○	○	○	○		
Realtime Message	FBH MIDI Clock	-		-	-	-	[GM2]			×		○		
	FAH Start	-		-	-	-	[GM2]			○		○		
	FBH Continue	-		-	-	-	[GM2]			×		×		
	FCH Stop	-		-	-	-	[GM2]			○		○		
	FEH Active Sens	-		-	-	-	[GM2]			○		○		
FFH System Reset	-		-	-	-	-			×		×			

\*1 Bank Select MSB/LSB/Program Changeは、Keyboardモードで受信されると無視されます。

## MIDI CHANNEL MESSAGE (2)

適用範囲	MIDI, 本体シーケンサー
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## NRPN (ノンレジスタード パラメーター ナンバー) 対応パラメーター

NRPN		Data Entry		Parameter	Data Range	MIDI規格	MIDI受信			MIDI送信	
MSB	LSB	MSB	LSB				Song	R1 R2 L	Keyboard (全手弾きパート)	Panel (主な出力方法)	Song
01H	08H	mmH	-	Vibrato Rate	mm: 00H-40H-7FH (-64...0...+63)		○	×	×	×	○
01H	09H	mmH	-	Vibrato Depth	mm: 00H-40H-7FH (-64...0...+63)		○	×	×	×	○
01H	0AH	mmH	-	Vibrato Delay	mm: 00H-40H-7FH (-64...0...+63)		○	×	×	×	○
01H	20H	mmH	-	Low Pass Filter Cutoff Frequency	mm: 00H-40H-7FH (-64...0...+63)		○	×	×	×	○
01H	21H	mmH	-	Low Pass Filter Resonance	mm: 00H-40H-7FH (-64...0...+63)		○	×	×	×	○
01H	30H	mmH	-	EQ BASS	mm: 00H-40H-7FH (-64...0...+63)		○	×	×	×	○
01H	31H	mmH	-	EQ TREBLE	mm: 00H-40H-7FH (-64...0...+63)		○	×	×	×	○
01H	34H	mmH	-	EQ BASS Frequency	mm: 04H-28H (32...2.0k [Hz])		○	×	×	×	○
01H	35H	mmH	-	EQ TREBLE Frequency	mm: 1CH-3AH (500...16.0k [Hz])		○	×	×	×	○
01H	63H	mmH	-	EG Attack Time	mm: 00H-40H-7FH (-64...0...+63)		○	×	×	×	○
01H	64H	mmH	-	EG Decay Time	mm: 00H-40H-7FH (-64...0...+63)		○	×	×	×	○
01H	66H	mmH	-	EG Release	mm: 00H-40H-7FH (-64...0...+63)		○	×	×	×	○
14H	rrH	mmH	-	Drum Low Pass Filter Cutoff Frequency	rr: drum instrument note number mm: 00H-40H-7FH (-64...0...+63)		○	×	×	×	○
15H	rrH	mmH	-	Drum Low Pass Filter Resonance	rr: drum instrument note number mm: 00H-40H-7FH (-64...0...+63)		○	×	×	×	○
16H	rrH	mmH	-	Drum EG Attack Rate	rr: drum instrument note number mm: 00H-40H-7FH (-64...0...+63)		○	×	×	×	○
17H	rrH	mmH	-	Drum EG Decay Rate	rr: drum instrument note number mm: 00H-40H-7FH (-64...0...+63)		○	×	×	×	○
18H	rrH	mmH	-	Drum Pitch Coarse	rr: drum instrument note number mm: 00H-40H-7FH (-64...0...+63)		○	×	×	×	○
19H	rrH	mmH	-	Drum Pitch Fine	rr: drum instrument note number mm: 00H-40H-7FH (-64...0...+63)		○	×	×	×	○
1AH	rrH	mmH	-	Drum Level	rr: drum instrument note number mm: 00H-7FH (0...127)		○	×	×	×	○
1CH	rrH	mmH	-	Drum Pan	rr: drum instrument note number mm: 00H_01H-40H-7FH (RND, L63...C...R63)		○	×	×	×	○
1DH	rrH	mmH	-	Drum Reverb Send Level	rr: drum instrument note number mm: 00H-7FH (0...127)		○	×	×	×	○
1EH	rrH	mmH	-	Drum Chorus Send Level	rr: drum instrument note number mm: 00H-7FH (0...127)		○	×	×	×	○
1FH	rrH	mmH	-	Drum Variation Send Level	rr: drum instrument note number mm: 00H-7FH (0...127)		○	×	×	×	○
24H	rrH	mmH	-	Drum HPF Cutoff Frequency	rr: drum instrument note number mm: 00H-40H-7FH (-64...0...+63)		○	×	×	×	○
30H	rrH	mmH	-	Drum EQ Bass Gain	rr: drum instrument note number mm: 00H-7FH (0...127)		×	×	×	×	○
31H	rrH	mmH	-	Drum EQ Treble Gain	rr: drum instrument note number mm: 00H-7FH (0...127)		×	×	×	×	○
34H	rrH	mmH	-	Drum EQ Bass Frequency	rr: drum instrument note number mm: 04H-28H (32...2.0k [Hz])		×	×	×	×	○
35H	rrH	mmH	-	Drum EQ Treble Frequency	rr: drum instrument note number mm: 1CH-3AH (500...16.0k [Hz])		×	×	×	×	○
40H	rrH	mmH	-	Drum VELOCITY PITCH SENS.	rr: drum instrument note number mm: 00H-0FH (0...15)		×	×	×	×	○
41H	rrH	mmH	-	Drum VELOCITY LPF CUTOFF SENS.	rr: drum instrument note number mm: 00H-0FH (0...15)		×	×	×	×	○

NRPN MSB: 14H-1FH (ドラム用)はそのパートが、ドラムモードのとき受信します。  
Data Entry LSB値は無視します。

## RPN (レジスタード パラメーター ナンバー) 対応パラメーター

NRPN		Data Entry		Parameter	Data Range	MIDI規格	MIDI受信(各PARTの受信有無)			MIDI送信(データ発生元)	
MSB	LSB	MSB	LSB				Song	R1 R2 L	Keyboard (全手弾きパート)	Panel (主な出力方法)	Song
00H	00H	mmH	-	Pitch Bend Sensitivity	mm: 00H-18H (0...+24 [semitones])	[GM1] [GM2]	○	○	○	○ (Function)	○
00H	01H	mmH	llH	Fine Tune	mm ll: 00H 00H -100 [cent] ... mm ll: 40H 00H 0 [cent] ... mm ll: 7FH 7FH 100 [cent]	[GM1] [GM2]	○	○	○	○ (Function)	○
00H	02H	mmH	-	Coarse Tune	mm: 28H-40H-58H (-24...0...+24 [semitones])	[GM1] [GM2]	○	○	○	×	○
00H	05H	mmH	llH	Modulation Sensitivity	mm: 半音単位で設定 ll: 100/128セント単位で設定	[GM2]	○	○	○	×	○
7FH	7FH	-	-	Null	-	[GM2]	○	○	○	×	○

## MIDI PARAMETER CHANGE TABLE

適用範囲	MIDI, 本体シーケンサー
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\*Receive System Exclusive Messageの設定がOFFのときには受信しません。  
 \*Transmit System Exclusive Messageの設定がOFFのときには送信しません。

## MIDI Parameter Change Table (XG SYSTEM)

Address (H)	Size (H)	Data (H)	Parameter	Description	XG Default (H)	MIDI受信			MIDI送信				
						Song	R1 R2 L	Keyboard	Panel (主な出力方法)	Song			
00	00	00	4	00-0F 00-0F 00-0F 00-0F	MASTER TUNE	-102.4...0...+102.3 [cent] 1st bit3-0→bit15-12 2nd bit3-0→bit11-8 3rd bit3-0→bit7-4 4th bit3-0→bit3-0	*Panel 設定値		○		×	○	
		04	1	00-7F	MASTER VOLUME	0...127	7F	○	×	×	×	×	○
		05	1	00-7F	MASTER ATTENUATOR	0...127	00	×	×	×	×	×	×
		06	1	28-5B	TRANPOSE	-24...0...+24 [semitones]	40	○	×	×	×	×	○
		7D	1	N	DRUM SETUP RESET	N: Drum setup number	-	○	×	×	×	×	○
		7E	1	00	XG SYSTEM ON	00=XG system ON	-	○	×	×	×	×	○
		7F	1	00	ALL PARAMETER RESET	00=ON	-	○	×	×	×	×	×

TOTAL SIZE 07

## MIDI Parameter Change Table (SYSTEM INFORMATION)

Address (H)	Size (H)	Data (H)	Parameter	Description	MIDI受信			MIDI送信				
					Song	R1 R2 L	Keyboard	Panel (主な出力方法)	Song			
01	00	00 ... 0D	E	20-7F ... 20-7F	Model Name 1 ... Model Name 14	32...127 (ASCII CHARACTER) ... 32...127 (ASCII CHARACTER)	-	-	-	×	×	
		0E	1		NOT USED							
		0F	1		NOT USED							

TOTAL SIZE 10  
Dump Requestにより送信されます。受信は行ないません。

## MIDI Parameter Change Table (EFFECT1)

Address (H)	Size (H)	Data (H)	Parameter	Description	XG Default (H)	MIDI受信			MIDI送信		
						Song	R1 R2 L	Keyboard	Panel (主な出力方法)	Song	
02	01	00	2	00-7F	REVERB TYPE MSB REVERB TYPE LSB	エフェクトパラメーター一覧参照	01 (=HALL1) 00		○	○	○
		02	1	00-7F	REVERB PARAMETER 1	"	Reverb Type に依存	○ (Reverb Typeに依存)	○	×	○
		03	1	00-7F	REVERB PARAMETER 2	"	Reverb Type に依存	○ (Reverb Typeに依存)	○	×	○
		04	1	00-7F	REVERB PARAMETER 3	"	Reverb Type に依存	○ (Reverb Typeに依存)	○	×	○
		05	1	00-7F	REVERB PARAMETER 4	"	Reverb Type に依存	○ (Reverb Typeに依存)	○	×	○
		06	1	00-7F	REVERB PARAMETER 5	"	Reverb Type に依存	○ (Reverb Typeに依存)	○	×	○
		07	1	00-7F	REVERB PARAMETER 6	"	Reverb Type に依存	○ (Reverb Typeに依存)	○	×	○
		08	1	00-7F	REVERB PARAMETER 7	"	Reverb Type に依存	○ (Reverb Typeに依存)	○	×	○
		09	1	00-7F	REVERB PARAMETER 8	"	Reverb Type に依存	○ (Reverb Typeに依存)	○	×	○
		0A	1	00-7F	REVERB PARAMETER 9	"	Reverb Type に依存	○ (Reverb Typeに依存)	○	×	○
		0B	1	00-7F	REVERB PARAMETER 10	"	Reverb Type に依存	○ (Reverb Typeに依存)	○	×	○
		0C	1	00-7F	REVERB RETURN	∞dB...0dB...+6dB (0...64...127)	40		○	×	○
		0D	1	01-7F	REVERB PAN	L63...C...R63	40		○	×	○

TOTAL SIZE 0E

02	01	10	1	00-7F	REVERB PARAMETER 11	エフェクトパラメーター一覧参照	Reverb Type に依存	○ (Reverb Typeに依存)	○	×	○
		11	1	00-7F	REVERB PARAMETER 12	"	Reverb Type に依存	○ (Reverb Typeに依存)	○	×	○
		12	1	00-7F	REVERB PARAMETER 13	"	Reverb Type に依存	○ (Reverb Typeに依存)	○	×	○
		13	1	00-7F	REVERB PARAMETER 14	"	Reverb Type に依存	○ (Reverb Typeに依存)	○	×	○
		14	1	00-7F	REVERB PARAMETER 15	"	Reverb Type に依存	○ (Reverb Typeに依存)	○	×	○
		15	1	00-7F	REVERB PARAMETER 16	"	Reverb Type に依存	○ (Reverb Typeに依存)	○	×	○

TOTAL SIZE 06

Address (H)	Size (H)	Data (H)	Parameter	Description	XG Default (H)	MIDI受信			MIDI送信		
						Song	R1 R2 L	Keyboard	Panel (主な出力方法)	Song	
02	01	20	2	00-7F	CHORUS TYPE MSB CHORUS TYPE LSB	エフェクトパラメーター一覧参照	41 (=CHORUS1) 00		○	○	○
		22	1	00-7F	CHORUS PARAMETER 1	"	Chorus Typeに依存	○ (Chorus Typeに依存)	○	×	○
		23	1	00-7F	CHORUS PARAMETER 2	"	Chorus Typeに依存	○ (Chorus Typeに依存)	○	×	○

Address (H)	Size (H)	Data (H)	Parameter	Description	XG Default (H)	MIDI受信			MIDI送信		
						Song	R1 R2 L	Keyboard	Panel (主な出力方法)	Song	
		24	1	00-7F	CHORUS PARAMETER 3	Chorus Typeに依存		○ (Chorus Typeに依存)		×	○
		25	1	00-7F	CHORUS PARAMETER 4	Chorus Typeに依存		○ (Chorus Typeに依存)		×	○
		26	1	00-7F	CHORUS PARAMETER 5	エフェクトパラメーター一覧参照		○ (Chorus Typeに依存)		×	○
		27	1	00-7F	CHORUS PARAMETER 6	Chorus Typeに依存		○ (Chorus Typeに依存)		×	○
		28	1	00-7F	CHORUS PARAMETER 7	Chorus Typeに依存		○ (Chorus Typeに依存)		×	○
		29	1	00-7F	CHORUS PARAMETER 8	Chorus Typeに依存		○ (Chorus Typeに依存)		×	○
		2A	1	00-7F	CHORUS PARAMETER 9	Chorus Typeに依存		○ (Chorus Typeに依存)		×	○
		2B	1	00-7F	CHORUS PARAMETER 10	Chorus Typeに依存		○ (Chorus Typeに依存)		×	○
		2C	1	00-7F	CHORUS RETURN	--∞dB...0dB...+6dB (0...64...127)	40	○		×	○
		2D	1	01-7F	CHORUS PAN	L63...C...R63	40	○		×	○
		2E	1	00-7F	SEND CHORUS TO REVERB	--∞dB...0dB...+6dB (0...64...127)	00	○		×	○

TOTAL SIZE 0F

02	01	30	1	00-7F	CHORUS PARAMETER 11	エフェクトパラメーター一覧参照	Chorus Typeに依存	○ (Chorus Typeに依存)		×	○
		31	1	00-7F	CHORUS PARAMETER 12	Chorus Typeに依存	○ (Chorus Typeに依存)			×	○
		32	1	00-7F	CHORUS PARAMETER 13	Chorus Typeに依存	○ (Chorus Typeに依存)			×	○
		33	1	00-7F	CHORUS PARAMETER 14	Chorus Typeに依存	○ (Chorus Typeに依存)			×	○
		34	1	00-7F	CHORUS PARAMETER 15	Chorus Typeに依存	○ (Chorus Typeに依存)			×	○
		35	1	00-7F	CHORUS PARAMETER 16	Chorus Typeに依存	○ (Chorus Typeに依存)			×	○

TOTAL SIZE 06

Address (H)	Size (H)	Data (H)	Parameter	Description	XG Default (H)	MIDI受信			MIDI送信			
						Song	R1 R2 L	Keyboard	Panel (主な出力方法)	Song		
02	01	40	2	00-7F 00-7F	VARIATION TYPE MSB VARIATION TYPE LSB	エフェクトパラメーター一覧参照	05 (=DELAY L, C, R) 00	○		×	○	
		42	2	00-7F 00-7F	VARIATION PARAMETER 1 MSB VARIATION PARAMETER 1 LSB	Variation Typeに依存	○ (Variation Typeに依存)			×	○	
		44	2	00-7F 00-7F	VARIATION PARAMETER 2 MSB VARIATION PARAMETER 2 LSB	Variation Typeに依存	○ (Variation Typeに依存)			×	○	
		46	2	00-7F 00-7F	VARIATION PARAMETER 3 MSB VARIATION PARAMETER 3 LSB	Variation Typeに依存	○ (Variation Typeに依存)			×	○	
		48	2	00-7F 00-7F	VARIATION PARAMETER 4 MSB VARIATION PARAMETER 4 LSB	Variation Typeに依存	○ (Variation Typeに依存)			×	○	
		4A	2	00-7F 00-7F	VARIATION PARAMETER 5 MSB VARIATION PARAMETER 5 LSB	Variation Typeに依存	○ (Variation Typeに依存)			×	○	
		4C	2	00-7F 00-7F	VARIATION PARAMETER 6 MSB VARIATION PARAMETER 6 LSB	Variation Typeに依存	○ (Variation Typeに依存)			×	○	
		4E	2	00-7F 00-7F	VARIATION PARAMETER 7 MSB VARIATION PARAMETER 7 LSB	Variation Typeに依存	○ (Variation Typeに依存)			×	○	
		50	2	00-7F 00-7F	VARIATION PARAMETER 8 MSB VARIATION PARAMETER 8 LSB	Variation Typeに依存	○ (Variation Typeに依存)			×	○	
		52	2	00-7F 00-7F	VARIATION PARAMETER 9 MSB VARIATION PARAMETER 9 LSB	Variation Typeに依存	○ (Variation Typeに依存)			×	○	
		54	2	00-7F 00-7F	VARIATION PARAMETER 10 MSB VARIATION PARAMETER 10 LSB	Variation Typeに依存	○ (Variation Typeに依存)			×	○	
		56	1	00-7F	VARIATION RETURN	--∞dB...0dB...+6dB (0...64...127)	40	○		×	○	
		57	1	01-7F	VARIATION PAN	L63...C...R63	40	○		×	○	
		58	1	00-7F	SEND VARIATION TO REVERB	--∞dB...0dB...+6dB (0...64...127)	00	○		×	○	
		59	1	00-7F	SEND VARIATION TO CHORUS	--∞dB...0dB...+6dB (0...64...127)	00	○		×	○	
		5A	1	00-01	VARIATION CONNECTION	INSERTION, SYSTEM	00	○		×	○	
		5B	1	00-7F	VARIATION PART NUMBER	受信: Part1...16 (0...15) 送信: Part1...16 (0...15) AD (64) OFF (127)	7F	○		×	○	
		5C	1	00-7F	MW VARIATION CONTROL DEPTH	-64...0...+63	40	○	×		×	○
		5D	1	00-7F	BEND VARIATION CONTROL DEPTH	-64...0...+63	40	○	×		×	○
		5E	1	00-7F	CAT VARIATION CONTROL DEPTH	-64...0...+63	40	○	×		×	○
		5F	1	00-7F	AC1 VARIATION CONTROL DEPTH	-64...0...+63	40	○	×		×	○
		60	1	00-7F	AC2 VARIATION CONTROL DEPTH	-64...0...+63	40	○	×		×	○

TOTAL SIZE 21

02	01	70	1	00-7F	VARIATION PARAMETER 11	エフェクトパラメーター一覧参照	Variation Typeに依存	○ (Variation Typeに依存)		×	○
		71	1	00-7F	VARIATION PARAMETER 12	Chorus Typeに依存	○ (Variation Typeに依存)			×	○
		72	1	00-7F	VARIATION PARAMETER 13	Chorus Typeに依存	○ (Variation Typeに依存)			×	○
		73	1	00-7F	VARIATION PARAMETER 14	Chorus Typeに依存	○ (Variation Typeに依存)			×	○
		74	1	00-7F	VARIATION PARAMETER 15	Chorus Typeに依存	○ (Variation Typeに依存)			×	○
		75	1	00-7F	VARIATION PARAMETER 16	Chorus Typeに依存	○ (Variation Typeに依存)			×	○

TOTAL SIZE 06

## MIDI Parameter Change Table (MULTI EQ)

\*MULTI EQはXG System Onでリセットされません。

Address (H)	Size (H)	Data (H)	Parameter	Description	MIDI受信			MIDI送信		
					Song	R1 R2 L	Keyboard	Panel (主な出力方法)	Song	
02	40	00	1	00-04	EQ TYPE	flat, jazz, pops, rock, classic		×	×	×
		01	1	34-4C	EQ GAIN1	-12...0...+12 [dB]		×	×	×
		02	1	04-2B	EQ FREQUENCY1	32...2.0k [Hz]		×	×	×
		03	1	01-78	EQ Q1	0.1...12.0		×	×	×
		04	1	00-01	EQ SHAPE1	shelving, peaking		×	×	×
		05	1	34-4C	EQ GAIN2	-12...0...+12 [dB]		×	×	×
		06	1	0E-36	EQ FREQUENCY2	100...10.0k [Hz]		×	×	×
		07	1	01-78	EQ Q2	0.1...12.0		×	×	×
		08	1		NOT USED			-	-	-
		09	1	34-4C	EQ GAIN3	-12...0...+12 [dB]		×	×	×
		0A	1	0E-36	EQ FREQUENCY3	100...10.0k [Hz]		×	×	×
		0B	1	01-78	EQ Q3	0.1...12.0		×	×	×
		0C	1		NOT USED			-	-	-
		0D	1	34-4C	EQ GAIN4	-12...0...+12 [dB]		×	×	×
		0E	1	0E-36	EQ FREQUENCY4	100...10.0k [Hz]		×	×	×
		0F	1	01-78	EQ Q4	0.1...12.0		×	×	×
		10	1		NOT USED			-	-	-
		11	1	34-4C	EQ GAIN5	-12...0...+12 [dB]		×	×	×
		12	1	1C-3A	EQ FREQUENCY5	0.5k...16.0k [Hz]		×	×	×
		13	1	01-78	EQ Q5	0.1...12.0		×	×	×
		14	1	00-01	EQ SHAPE5	shelving, peaking		×	×	×

TOTAL SIZE 15

## MIDI Parameter Change Table (EFFECT2)

\*EFFECT2はXG System Onでリセットされません。

Address (H)	Size (H)	Data (H)	Parameter	Description	MIDI受信			MIDI送信	
					Song	R1 R2 L	Keyboard	Panel (主な出力方法)	Song
03	n	00	2	00-7F	INSERTION EFFECT TYPE MSB	エフェクトパラメーター一覧参照		○	○
		02	1	00-7F	INSERTION EFFECT TYPE LSB			○	○
		03	1	00-7F	INSERTION EFFECT PARAMETER 1			○	○
		04	1	00-7F	INSERTION EFFECT PARAMETER 2			○	○
		05	1	00-7F	INSERTION EFFECT PARAMETER 3			○	○
		06	1	00-7F	INSERTION EFFECT PARAMETER 4			○	○
		07	1	00-7F	INSERTION EFFECT PARAMETER 5			○	○
		08	1	00-7F	INSERTION EFFECT PARAMETER 6			○	○
		09	1	00-7F	INSERTION EFFECT PARAMETER 7			○	○
		0A	1	00-7F	INSERTION EFFECT PARAMETER 8			○	○
		0B	1	00-7F	INSERTION EFFECT PARAMETER 9			○	○
		0C	1	00-7F	INSERTION EFFECT PARAMETER 10			○	○
		0D	1	00-7F	INSERTION EFFECT PART NUMBER	受信: Part1...16 (0...15) 送信: Part1...16 (0...15) AD (64) OFF (127)		○	○
		0E	1	00-7F	MW INSERTION CONTROL DEPTH	-64...0...+63		○	○
		0F	1	00-7F	BEND INSERTION CONTROL DEPTH	-64...0...+63		○	○
		10	1	00-7F	CAT INSERTION CONTROL DEPTH	-64...0...+63		○	○
		11	1	00-7F	AC1 INSERTION CONTROL DEPTH	-64...0...+63		○	○
		11	1	00-7F	AC2 INSERTION CONTROL DEPTH	-64...0...+63		○	○

TOTAL SIZE 12

		20	1	00-7F	INSERTION EFFECT PARAMETER 11	エフェクトパラメーター一覧参照		○	○
		21	1	00-7F	INSERTION EFFECT PARAMETER 12			○	○
		22	1	00-7F	INSERTION EFFECT PARAMETER 13			○	○
		23	1	00-7F	INSERTION EFFECT PARAMETER 14			○	○
		24	1	00-7F	INSERTION EFFECT PARAMETER 15			○	○
		25	1	00-7F	INSERTION EFFECT PARAMETER 16			○	○

TOTAL SIZE 6

		30	2	00-7F	INSERTION EFFECT PARAMETER 1 MSB	エフェクトパラメーター一覧参照		○	○
				00-7F	INSERTION EFFECT PARAMETER 1 LSB			○	○
		32	2	00-7F	INSERTION EFFECT PARAMETER 2 MSB			○	○
				00-7F	INSERTION EFFECT PARAMETER 2 LSB			○	○
		34	2	00-7F	INSERTION EFFECT PARAMETER 3 MSB			○	○
				00-7F	INSERTION EFFECT PARAMETER 3 LSB			○	○
		36	2	00-7F	INSERTION EFFECT PARAMETER 4 MSB			○	○
				00-7F	INSERTION EFFECT PARAMETER 4 LSB			○	○
		38	2	00-7F	INSERTION EFFECT PARAMETER 5 MSB			○	○
				00-7F	INSERTION EFFECT PARAMETER 5 LSB			○	○
		3A	2	00-7F	INSERTION EFFECT PARAMETER 6 MSB			○	○
				00-7F	INSERTION EFFECT PARAMETER 6 LSB			○	○
		3C	2	00-7F	INSERTION EFFECT PARAMETER 7 MSB			○	○
				00-7F	INSERTION EFFECT PARAMETER 7 LSB			○	○

		3E	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 8 MSB INSERTION EFFECT PARAMETER 8 LSB	エフェクトパラメーター—覧参照	○ (Insertion Typeに依存)	×	○
		40	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 9 MSB INSERTION EFFECT PARAMETER 9 LSB	〃	○ (Insertion Typeに依存)	×	○
		42	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 10 MSB INSERTION EFFECT PARAMETER 10 LSB	〃	○ (Insertion Typeに依存)	○ (Function)	○

TOTAL SIZE 14

addressの2byteをインサージョンエフェクト番号とします。  
n: insertion effect number

本機種のインサージョンエフェクト番号の範囲は0~1です。範囲外の値については未知のイベントとして扱われ、無視されます。  
MSBが不要なEFFECT TYPE使用時は、アドレス02~0BのPARAMETERを受信し、アドレス30~42のPARAMETERは受信しません。  
MSBが必要なEFFECT TYPE使用時は、アドレス30~42のPARAMETERを受信し、アドレス02~0BのPARAMETERは受信しません。  
EFFECT TYPEの情報を含むパルクの送信は、アドレス02~0BのPARAMETERが必ず送信されますが、MSBが必要なEFFECT TYPEの場合は、パルク受信においてもアドレス02~0BのPARAMETERの受信をしません。

## MIDI Parameter Change Table (MULTI PART)

Address (H)	Size (H)	Data (H)	Parameter	Description	XG Default (H)	MIDI受信			MIDI送信		
						Song	R1 R2 L	Keyboard	Panel (主な出力方法)	Song	
08	nn	00	1	00-20	NOT USED		×	×	×	×	
		01	1	00-7F	BANK SELECT MSB	0...127	part 10=7F, other parts=00	○	○	×	×
		02	1	00-7F	BANK SELECT LSB	0...127	00	○	○	×	×
		03	1	00-7F	PROGRAM NUMBER	1...128	00	○	○	×	×
		04	1	00-0F 7F	Rcv CHANNEL	1...16, OFF	Part No.	○	×	×	×
		05	1	00-01	MONO/POLY MODE	MONO, POLY	01	○	×	×	×
		06	1	00-02	SAME NOTE NUMBER KEY ON ASSIGN	SINGLE, MULTI, INST (for Drum)	01	○	×	×	×
		07	1	00-03	PART MODE	NORMAL, DRUM, DRUMS1...2	part 10=02, other parts=00	○	×	×	○ (Voice)
		08	1	28-58	NOTE SHIFT	-24...0...+24 [semitones]	40	○	○	×	×
		09	2	00-0F 00-0F	DETUNE	-12.8...0...+12.7[Hz] 1st bit3-0 → bit7-4 2nd bit3-0 → bit3-0	08 00	○	○	×	×
		0B	1	00-7F	VOLUME	0...127	64	○	○	×	×
		0C	1	00-7F	VELOCITY SENSE DEPTH	0...127	40	○	○	×	○ (Function)
		0D	1	00-7F	VELOCITY SENSE OFFSET	0...127	40	○	○	×	○ (Function)
		0E	1	00-7F	PAN	RND, L63...C...R63	40	○	○	×	×
		0F	1	00-7F	NOTE LIMIT LOW	C-2...G8	00	○	○	×	×
		10	1	00-7F	NOTE LIMIT HIGH	C-2...G8	7F	○	○	×	×
		11	1	00-7F	DRY LEVEL	0...127	7F	○	○	×	×
		12	1	00-7F	CHORUS SEND	0...127	00	○	○	×	×
		13	1	00-7F	REVERB SEND	0...127	28	○	○	×	×
		14	1	00-7F	VARIATION SEND	0...127	00	○	○	×	×
		15	1	00-7F	VIBRATO RATE	-64...0...+63	40	○	○	×	×
		16	1	00-7F	VIBRATO DEPTH	-64...0...+63	40	○	○	×	×
		17	1	00-7F	VIBRATO DELAY	-64...0...+63	40	○	○	×	×
		18	1	00-7F	FILTER CUTOFF FREQUENCY	-64...0...+63	40	○	○	×	×
		19	1	00-7F	FILTER RESONANCE	-64...0...+63	40	○	○	×	×
		1A	1	00-7F	EG ATTACK TIME	-64...0...+63	40	○	○	×	×
		1B	1	00-7F	EG DECAY TIME	-64...0...+63	40	○	○	×	×
		1C	1	00-7F	EG RELEASE TIME	-64...0...+63	40	○	○	×	×
		1D	1	28-58	MW PITCH CONTROL	-24...0...+24 [semitones]	40	○	○	×	×
		1E	1	00-7F	MW LOW PASS FILTER CONTROL	-9600...0...+9450 [cent]	40	○	○	×	×
		1F	1	00-7F	MW AMPLITUDE CONTROL	-100...0...+100 [%]	40	○	○	×	×
		20	1	00-7F	MW LFO PMOD DEPTH	0...127	0A	○	○	×	×
		21	1	00-7F	MW LFO FMOD DEPTH	0...127	00	○	○	×	×
		22	1	00-7F	MW LFO AMOD DEPTH	0...127	00	○	○	×	×
		23	1	28-58	BEND PITCH CONTROL	-24...0...+24 [semitones]	42	○	○	×	×
		24	1	00-7F	BEND LOW PASS FILTER CONTROL	-9600...0...+9450 [cent]	40	○	○	×	×
		25	1	00-7F	BEND AMPLITUDE CONTROL	-100...0...+100 [%]	40	○	○	×	×
		26	1	00-7F	BEND LFO PMOD DEPTH	0...127	00	○	○	×	×
		27	1	00-7F	BEND LFO FMOD DEPTH	0...127	00	○	○	×	×
		28	1	00-7F	BEND LFO AMOD DEPTH	0...127	00	○	○	×	×

TOTAL SIZE 29

		30	1	00-01	Rcv PITCH BEND	OFF, ON	01	○	×	×	×
		31	1	00-01	Rcv CH AFTER TOUCH (CAT)	OFF, ON	01	○	×	×	×
		32	1	00-01	Rcv PROGRAM CHANGE	OFF, ON	01	○	×	×	×
		33	1	00-01	Rcv CONTROL CHANGE	OFF, ON	01	○	×	×	×
		34	1	00-01	Rcv POLY AFTER TOUCH (PAT)	OFF, ON	01	○	×	×	×
		35	1	00-01	Rcv NOTE MESSAGE	OFF, ON	01	○	×	×	×
		36	1	00-01	Rcv RPN	OFF, ON	01	○	×	×	×
		37	1	00-01	Rcv NRPN	OFF, ON	XG mode=01, GM mode=00	○	×	×	×
		38	1	00-01	Rcv MODULATION	OFF, ON	01	○	×	×	×
		39	1	00-01	Rcv VOLUME	OFF, ON	01	○	×	×	×
		3A	1	00-01	Rcv PAN	OFF, ON	01	○	×	×	×
		3B	1	00-01	Rcv EXPRESSION	OFF, ON	01	○	×	×	×
		3C	1	00-01	Rcv HOLD1	OFF, ON	01	○	×	×	×
		3D	1	00-01	Rcv PORTAMENTO	OFF, ON	01	○	×	×	×
		3E	1	00-01	Rcv SOSTENUTO	OFF, ON	01	○	×	×	×
		3F	1	00-01	Rcv SOFT PEDAL	OFF, ON	01	○	×	×	×
		40	1	00-01	Rcv BANK SELECT	OFF, ON	01	○	×	×	×
		41	1	00-7F	SCALE TUNING C	-63...0...+63 [cent]	40	○	○	×	○ (Function)
		42	1	00-7F	SCALE TUNING C#	-63...0...+63 [cent]	40	○	○	×	○ (Function)
		43	1	00-7F	SCALE TUNING D	-63...0...+63 [cent]	40	○	○	×	○ (Function)

		44	1	00-7F	SCALE TUNING D#	-63...0...+63 [cent]	40	○	○	×	○ (Function)	○
		45	1	00-7F	SCALE TUNING E	-63...0...+63 [cent]	40	○	○	×	○ (Function)	○
		46	1	00-7F	SCALE TUNING F	-63...0...+63 [cent]	40	○	○	×	○ (Function)	○
		47	1	00-7F	SCALE TUNING F#	-63...0...+63 [cent]	40	○	○	×	○ (Function)	○
		48	1	00-7F	SCALE TUNING G	-63...0...+63 [cent]	40	○	○	×	○ (Function)	○
		49	1	00-7F	SCALE TUNING G#	-63...0...+63 [cent]	40	○	○	×	○ (Function)	○
		4A	1	00-7F	SCALE TUNING A	-63...0...+63 [cent]	40	○	○	×	○ (Function)	○
		4B	1	00-7F	SCALE TUNING A#	-63...0...+63 [cent]	40	○	○	×	○ (Function)	○
		4C	1	00-7F	SCALE TUNING B	-63...0...+63 [cent]	40	○	○	×	○ (Function)	○
		4D	1	28-5B	CAT PITCH CONTROL	-24...0...+24 [semitones]	40	○	×	×	×	○
		4E	1	00-7F	CAT LOW PASS FILTER CONTROL	-9600...0...+9450 [cent]	40	○	×	×	×	○
		4F	1	00-7F	CAT AMPLITUDE CONTROL	-100...0...+100 [%]	40	○	×	×	×	○
		50	1	00-7F	CAT LFO PMOD DEPTH	0...127	00	○	×	×	×	○
		51	1	00-7F	CAT LFO FMOD DEPTH	0...127	00	○	×	×	×	○
		52	1	00-7F	CAT LFO AMOD DEPTH	0...127	00	○	×	×	×	○
		53	1	28-5B	PAT PITCH CONTROL	-24...0...+24 [semitones]	40	○	×	×	×	○
		54	1	00-7F	PAT LOW PASS FILTER CONTROL	-9600...0...+9450 [cent]	40	○	×	×	×	○
		55	1	00-7F	PAT AMPLITUDE CONTROL	-100...0...+100 [%]	40	○	×	×	×	○
		56	1	00-7F	PAT LFO PMOD DEPTH	0...127	00	○	×	×	×	○
		57	1	00-7F	PAT LFO FMOD DEPTH	0...127	00	○	×	×	×	○
		58	1	00-7F	PAT LFO AMOD DEPTH	0...127	00	○	×	×	×	○
		59	1	00-5F	AC1 CONTROLLER NUMBER	0...95	10	○	○	×	○	○
		5A	1	28-5B	AC1 PITCH CONTROL	-24...0...+24 [semitones]	40	○	×	×	×	○
		5B	1	00-7F	AC1 LOW PASS FILTER CONTROL	-9600...0...+9450 [cent]	40	○	×	×	×	○
		5C	1	00-7F	AC1 AMPLITUDE CONTROL	-100...0...+100 [%]	40	○	×	×	×	○
		5D	1	00-7F	AC1 LFO PMOD DEPTH	0...127	00	○	×	×	×	○
		5E	1	00-7F	AC1 LFO FMOD DEPTH	0...127	00	○	×	×	×	○
		5F	1	00-7F	AC1 LFO AMOD DEPTH	0...127	00	○	×	×	×	○
		60	1	00-5F	AC2 CONTROLLER NUMBER	0...95	11	○	×	×	×	○
		61	2	28-5B	AC2 PITCH CONTROL	-24...0...+24 [semitones]	40	○	×	×	×	○
		62	1	00-7F	AC2 LOW PASS FILTER CONTROL	-9600...0...+9450 [cent]	40	○	×	×	×	○
		63	1	00-7F	AC2 AMPLITUDE CONTROL	-100...0...+100 [%]	40	○	×	×	×	○
		64	1	00-7F	AC2 LFO PMOD DEPTH	0...127	00	○	×	×	×	○
		65	1	00-7F	AC2 LFO FMOD DEPTH	0...127	00	○	×	×	×	○
		66	1	00-7F	AC2 LFO AMOD DEPTH	0...127	00	○	×	×	×	○
		67	1	00-01	PORTAMENTO SWITCH	OFF, ON	00	○	○	×	×	○
		68	1	00-7F	PORTAMENTO TIME	0...127	00	○	○	×	×	○
		69	1	00-7F	PITCH EG INITIAL LEVEL	-64...0...+63	40	○	×	×	×	○
		6A	1	00-7F	PITCH EG ATTACK TIME	-64...0...+63	40	○	×	×	×	○
		6B	1	00-7F	PITCH EG RELEASE LEVEL	-64...0...+63	40	○	×	×	×	○
		6C	1	00-7F	PITCH EG RELEASE TIME	-64...0...+63	40	○	×	×	×	○
		6D	1	01-7F	VELOCITY LIMIT LOW	1...127	01	○	×	×	×	○
		6E	1	01-7F	VELOCITY LIMIT HIGH	1...127	7F	○	×	×	×	○

TOTAL SIZE 3F

		70	1		NOT USED		-	-	-	-	-	-
		71	1		NOT USED		-	-	-	-	-	-
		72	1	00-7F	EQ BASS GAIN	-12dB...+12dB	40	○	×	×	×	○
		73	1	00-7F	EQ TREBLE GAIN	-12dB...+12dB	40	○	×	×	×	○

TOTAL SIZE 04

		74	1		NOT USED		-	-	-	-	-	-
		75	1		NOT USED		-	-	-	-	-	-
		76	1	04-2B	EQ BASS FREQUENCY	32...2.0k [Hz]	0C	○	×	×	×	○
		77	1	1C-3A	EQ TREBLE FREQUENCY	500...16.0k [Hz]	36	○	×	×	×	○
		78	1		NOT USED		-	-	-	-	-	-
		79	1		NOT USED		-	-	-	-	-	-
		7A	1		NOT USED		-	-	-	-	-	-
		7B	1		NOT USED		-	-	-	-	-	-
		7C	1		NOT USED		-	-	-	-	-	-
		7D	1		NOT USED		-	-	-	-	-	-
		7E	1		NOT USED		-	-	-	-	-	-
		7F	1		NOT USED		-	-	-	-	-	-

TOTAL SIZE 0C

	0A	nn	40	1	00-7F	MW OFFSET LEVEL CONTROL	-100 - 100 [%]	40	○	×	×	×	○
			41	1	00-7F	BEND OFFSET LEVEL CONTROL	-100 - 100 [%]	40	○	×	×	×	○
			42	1	00-7F	CAT OFFSET LEVEL CONTROL	-100 - 100 [%]	40	○	×	×	×	○
			43	1	00-7F	PAT OFFSET LEVEL CONTROL	-100 - 100 [%]	40	○	×	×	×	○
			44	1	00-7F	AC1 OFFSET LEVEL CONTROL	-100 - 100 [%]	40	○	×	×	×	○
			45	1	00-7F	AC2 OFFSET LEVEL CONTROL	-100 - 100 [%]	40	○	×	×	×	○

TOTAL SIZE 06

nn = PART NUMBER

DRUM PARTの場合、以下のパラメーターは効果がかかりません。

- BANK SELECT LSB
- PORTAMENTO
- MONO/POLY
- SCALE TUNING
- POLY AFTER TOUCH
- PITCH EG



## MIDI Parameter Change Table (DRUM SETUP)

Address (H)	Size (H)	Data (H)	Parameter	Description	XG Default (H)	MIDI受信			MIDI送信			
						Song	R1 R2 L	Keyboard	Panel (主な出力方法)	Song		
3n	rr	00	1	00-7F	PITCH COARSE	-64...0...+63	40	○	×	×	×	○
		01	1	00-7F	PITCH FINE	-64...0...+63 [cent]	40	○	×	×	×	○
		02	1	00-7F	LEVEL	0...127	ノードに依存します。	○	×	×	×	○
		03	1	00-7F	ALTERNATE GROUP	OFF, 1...127	ノードに依存します。	○	×	×	×	○
		04	1	00-7F	PAN	RND, L63...C...R63	ノードに依存します。	○	×	×	×	○
		05	1	00-7F	REVERB SEND	0...127	ノードに依存します。	○	×	×	×	○
		06	1	00-7F	CHORUS SEND	0...127	ノードに依存します。	○	×	×	×	○
		07	1	00-7F	VARIATION SEND	0...127	7F	○	×	×	×	○
		08	1	00-01	KEY ASSIGN	SINGLE, MULTI	00	○	×	×	×	○
		09	1	00-01	Rcv NOTE OFF	OFF, ON	ノードに依存します。	○	×	×	×	○
		0A	1	00-01	Rcv NOTE ON	OFF, ON	01	○	×	×	×	○
		0B	1	00-7F	LOW PASS FILTER CUTOFF FREQUENCY	-64...0...+63	40	○	×	×	×	○
		0C	1	00-7F	LOW PASS FILTER RESONANCE	-64...0...+63	40	○	×	×	×	○
		0D	1	00-7F	EG ATTACK RATE	-64...0...+63	40	○	×	×	×	○
		0E	1	00-7F	EG DECAY1 RATE	-64...0...+63	40	○	×	×	×	○
		0F	1	00-7F	EG DECAY2 RATE	-64...0...+63	40	○	×	×	×	○
TOTAL SIZE				10								

		20	1	00-7F	EQ BASS GAIN	-12...+12 [dB]	40	×	×	×	×	×
		21	1	00-7F	EQ TREBLE GAIN	-12...+12 [dB]	40	×	×	×	×	×
		22	1		NOT USED		-	-	-	-	-	-
		23	1		NOT USED		-	-	-	-	-	-
		24	1	04-28	EQ BASS FREQUENCY	32...2.0k [Hz]	0C	×	×	×	×	×
		25	1	1C-3A	EQ TREBLE FREQUENCY	500...16.0k [Hz]	36	×	×	×	×	×
		26	1		NOT USED		-	-	-	-	-	-
		27	1		NOT USED		-	-	-	-	-	-
		28	1		NOT USED		-	-	-	-	-	-
		29	1		NOT USED		-	-	-	-	-	-
		2A	1		NOT USED		-	-	-	-	-	-
		2B	1		NOT USED		-	-	-	-	-	-
		2C	1		NOT USED		-	-	-	-	-	-
		2D	1		NOT USED		-	-	-	-	-	-
TOTAL SIZE				0E								

n: Drum Setup Number (0-1)  
rr: note number (0D-5B)

すべてのDrum Setupを以下の場合に初期化します。

XG SYSTEM ON受信  
GM SYSTEM ON受信  
GM LEVEL2 SYSTEM ON受信  
GS RESET受信  
DRUM SETUP RESET受信 (XG mode時)

注記

Drum Setupをアサインされているパートのプログラムチェンジを受信すると、アサインされているDrum Setupは初期化されます。  
複数のパートが同じDrum Setupをアサインされている場合、Drum Setupパラメーターの変更(プログラムチェンジを含む)は、アサインされているすべてのパートに反映します。

## System Exclusive Messages (1)

適用範囲

MIDI, 本体シーケンサー

\*Receive System Exclusive Messageの設定がOFFのときには受信しません。  
 \*Transmit System Exclusive Messageの設定がOFFのときには送信しません。

## ■ システムエクスクルーシブメッセージ(ユニバーサルリアルタイムメッセージ)

MIDI Event	データフォーマット	MIDI規格	MIDI受信			MIDI送信	
			Song	R1 R2 L	Keyboard	Panel (主な出力方法)	Song
Master Volume	F0 7F XN 04 01 SS TT F7 11110000 F0 = Exclusive status 01111111 7F = Universal Real Time 0xxxxnnn XN = When N is received N=0-F, whichever is received. X=ignored 00000100 04 = Sub-ID #1 = Device Control Message 00000001 01 = Sub-ID #2 = Master Volume 0sssssss SS = Volume LSB 0ttttttt TT = Volume MSB 11110111 F7 = End of Exclusive	[GM2]	○	×	×	×	△ (XGに変換され、出力される)
Master Fine Tuning	F0 7F XN 04 03 SS TT F7 11110000 F0 = Exclusive status 01111111 7F = Universal Real Time 0xxxxnnn XN = When N is received N=0-F, whichever is received. X=ignored 00000100 04 = Sub-ID #1 = Device Control Message 00000011 03 = Sub-ID #2 = Master Fine Tuning 0sssssss SS = Fine Tuning LSB 0ttttttt TT = Fine Tuning MSB 11110111 F7 = End of Exclusive	[GM2]	○	×	×	×	△ (XGに変換され、出力される)
Master Coarse Tuning	F0 7F XN 04 04 00 TT F7 11110000 F0 = Exclusive status 01111111 7F = Universal Real Time 0xxxxnnn XN = When N is received N=0-F, whichever is received. X=ignored 00000100 04 = Sub-ID #1 = Device Control Message 00000100 04 = Sub-ID #2 = Master Fine Tuning 00000000 00 0ttttttt TT = Coarse Tuning MSB 11110111 F7 = End of Exclusive	[GM2]	○	×	×	×	△ (XGに変換され、出力される)
Reverb Parameter	F0 7F XN 04 05 01 01 01 01 01 PP VV ... F7 11110000 F0 = Exclusive status 01111111 7F = Universal Real Time 0xxxxnnn XN = When N is received N=0-F, whichever is received. X=ignored 00000100 04 = Sub-ID #1 = Device Control Message 00000101 05 = Sub-ID #2 = Global Parameter Control 00000001 01 = Slot path length = 1 00000001 01 = Parameter ID width = 1 00000001 01 = Value width = 1 00000001 01 = Slot path MSB = 1 (Reverb) 00000001 01 = Slot path LSB = 1 0ppppppp PP = Parameter to be controlled. 0vvvvvvv VV = Value for the Parameter. ... 11110111 F7 = End of Exclusive  Parameter (pp) Value (vv) Display ----- pp=0 Reverb Type 0...8 0: RoomS 1: RoomM 2: RoomL 3: HallM 4: HallL (default) 8: GM Plate pp=1 Reverb Time 0...127 0...11.0s	[GM2]		○		×	△ (XGに変換され、出力される)
Chorus Parameter	F0 7F XN 04 05 01 01 01 01 02 PP VV ... F7 11110000 F0 = Exclusive status 01111111 7F = Universal Real Time 0xxxxnnn XN = When N is received N=0-F, whichever is received. X=ignored 00000100 04 = Sub-ID #1 = Device Control Message 00000101 05 = Sub-ID #2 = Global Parameter Control 00000001 01 = Slot path length = 1 00000001 01 = Parameter ID width = 1 00000001 01 = Value width = 1 00000001 01 = Slot path MSB = 1 (Chorus) 00000010 02 = Slot path LSB = 2 0ppppppp PP = Parameter to be controlled. 0vvvvvvv VV = Value for the Parameter. ... 11110111 F7 = End of Exclusive  Parameter (pp) Value (vv) Display ----- pp=0 Chorus Type 0...5 0: GM Chorus1 1: GM Chorus2 2: GM Chorus3 (default) 3: GM Chorus4 4: FB Chorus 5: GM Flanger pp=1 Mod Rate 0...127 0...15.5Hz pp=2 Mod Depth 0...127 pp=3 Feedback 0...127 pp=4 Send to Reverb 0...127	[GM2]		○		×	△ (XGに変換され、出力される)

MIDI Event	データフォーマット	MIDI規格	MIDI受信			MIDI送信	
			Song	R1 R2 L	Keyboard	Panel (主な出力方法)	Song
Channel Pressure (Aftertouch)	F0 7F XN 09 01 0M PP RR ... F7 11110000 F0 = Exclusive status 01111111 7F = Universal Real Time 0xxxxmnn XN = When N is received N=0-F, whichever is received. X=ignored 00001001 09 = Sub-ID #1 = Controller Destination Setting 00000001 01 = Sub-ID #2 = Controller Type: 01 (Channel Pressure) 0000mmmm 0M = MIDI Channel (00-0F) 0pppppppp PP = Controlled Parameter 0rrrrrrrr RR = Data ... 11110111 F7 = End of Exclusive  Controlled ParameterとRangeをベアで設定。 設定しなかったパラメーターは初期化されます。	[GM2]	○	×	×	×	△ (XGに変換され、出力される)
Controller (Control Change)	F0 7F XN 09 03 0M CC PP RR ... F7 11110000 F0 = Exclusive status 01111111 7F = Universal Real Time 0xxxxmnn XN = When N is received N=0-F, whichever is received. X=ignored 00001001 09 = Sub-ID #1 = Controller Destination Setting 00000011 03 = Sub-ID #2 = Controller Type: 03 (Control Change) 0000mmmm 0M = MIDI Channel (00-0F) 0ccccccc CC = Controller Number (01H-1FH, 40H-5FH) 0pppppppp PP = Controlled Parameter 0rrrrrrrr RR = Range ... 11110111 F7 = End of Exclusive  Controlled ParameterとRangeをベアで設定。 設定しなかったパラメーターは初期化されます。	[GM2]	○	×	×	×	△ (XGに変換され、出力される)
Key-Based Instrument Control	F0 7F XN 0A 01 0M KK CC VV ... F7 11110000 F0 = Exclusive status 01111111 7F = Universal Real Time 0xxxxmnn XN = When N is received N=0-F, whichever is received. X=ignored 00001010 0A = Sub-ID #1 = Key-Based Instrument Control 00000011 01 = Sub-ID #2 = Controller 0000mmmm 0M = MIDI Channel (00-0F) 0kkkkkkkk KK = Key Number 0ccccccc CC = Controller Number 0vvvvvvvv VV = Value ... 11110111 F7 = End of Exclusive  Controlled NumberとValueをベアで設定	[GM2]	○	×	×	×	△ (XGに変換され、出力される)

### ■ システムエクスクルーシブメッセージ(ユニバーサルノンリアルタイムメッセージ)

MIDI Event	データフォーマット	MIDI規格	MIDI受信			MIDI送信	
			Song	R1 R2 L	Keyboard	Panel (主な出力方法)	Song
GM1 System On	F0 7E XN 09 01 F7 11110000 F0 = Exclusive status 01111110 7E = Universal Non-Real Time 0xxxxmnn XN = When N is received N=0-F, whichever is received. X=ignored 00001001 09 = Sub-ID #1 = General MIDI Message 00000001 01 = Sub-ID #2 = General MIDI On 11110111 F7 = End of Exclusive	[GM1] [GM2]	○	×	×	×	△ (XGに変換され、出力される)
GM2 System On	F0 7E XN 09 03 F7 11110000 F0 = Exclusive status 01111110 7E = Universal Non-Real Time 0xxxxmnn XN = When N is received N=0-F, whichever is received. X=ignored 00001001 09 = Sub-ID #1 = General MIDI Message 00000011 03 = Sub-ID #2 = General MIDI2 On 11110111 F7 = End of Exclusive	[GM2]	○	×	×	×	△ (XGに変換され、出力される)
General MIDI System Off	F0 7E XN 09 02 F7 11110000 F0 = Exclusive status 01111110 7E = Universal Non-Real Time 0xxxxmnn XN = When N is received N=0-F, whichever is received. X=ignored 00001001 09 = Sub-ID #1 = General MIDI Message 00000010 02 = Sub-ID #2 = General MIDI Off 11110111 F7 = End of Exclusive	[GM1] [GM2]	○	×	×	×	△ (XGに変換され、出力される)

MIDI Event	データフォーマット	MIDI規格	MIDI受信			MIDI送信	
			Song	R1 R2 L	Keyboard	Panel (主な出力方法)	Song
Scale/Octave Tuning	FO 7E XN 08 08 JJ GG MM SS ... F7 11110000 FO = Exclusive status 01111110 7E = Universal Non-Real Time 0xxxxnmm XN = When N is received N=0-F, whichever is received. X=ignored 00001000 08 = Sub-ID #1 = MIDI Tuning Standard 00001000 08 = Sub-ID #2 = scale/octave tuning 1byte form 0jjjjjjjj JJ = Channel/option byte1 bits 0 to 1 = channel 15 to 16 bits 2 to 6 = reserved 0ggggggg GG = Channel byte 2 - bits 0 to 6 = channel 8 to 14 0mmmmmmm MM = Channel byte 2 - bits 0 to 6 = channel 1 to 7 0sssssss SS = 12 byte tuning offset of 12 semitones from C to B 00H means -64cent 40H means 0cent 7FH means +63cent ... 11110111 F7 = End of Exclusive	[GM2]	○	×	×	×	△ (XGに変換され、出力される)

## System Exclusive Messages (2)

適用範囲	MIDI, 本体シーケンサー
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\*Receive System Exclusive Messageの設定がOFFのときには受信しません。  
 \*Transmit System Exclusive Messageの設定がOFFのときには送信しません。

### ■ システムエクスクルーシブメッセージ(XG)

MIDI Event	データフォーマット	MIDI受信			MIDI送信	
		Song	R1 R2 L	Keyboard	Panel (主な出力方法)	Song
XGパラメーターチェンジ	FO 43 1n 4C hh mm ll dd ... F7 11110000 FO = Exclusive status 01000011 43 = YAMAHA ID 0001nmmn 1n = Device Number n=always 0 (when transmit), n=0-F (when receive) 01001100 4C = Model ID 0hhhhhhh hh = Address High 0mmmmmmm mm = Address Mid 01111111 ll = Address Low 0ddddd dd = Data ... 11110111 F7 = End of Exclusive	○ *Parameter Change Tableを参照のこと	○	○	*Parameter Change Tableを参照のこと	○
XGバレルダンブ	FO 43 0n 4C aa bb hh mm ll dd ... dd cc F7 11110000 FO = Exclusive status 01000011 43 = YAMAHA ID 0000nmmn 0n = Device Number n=always 0 (when transmit), n=0-F (when receive) 01001100 4C = Model ID 0aaaaaaaa aa = Byte Count MSB 0bbbbbbb bb = Byte Count LSB 0hhhhhhh hh = Address High 0mmmmmmm mm = Address Mid 01111111 ll = Address Low 0ddddd dd = Data ... 0ddddd dd = Data 0cececcc cc = Checksum 11110111 F7 = End of Exclusive	○ *Parameter Change Tableを参照のこと	○	○	*Parameter Change Tableを参照のこと	○
XGパラメーターリクエスト	FO 43 3n 4C hh mm ll F7 11110000 FO = Exclusive status 01000011 43 = YAMAHA ID 0011nmmn 3n = Device Number n=always 0 (when transmit), n=0-F (when receive) 01001100 4C = Model ID 0hhhhhhh hh = Address High 0mmmmmmm mm = Address Mid 01111111 ll = Address Low 11110111 F7 = End of Exclusive	○ *Parameter Change Tableを参照 ただし、0A nn 4v は ×	×	×	×	×
XGダンプリクエスト	FO 43 2n 4C hh mm ll F7 11110000 FO = Exclusive status 01000011 43 = YAMAHA ID 0010nmmn 2n = Device Number n=always 0 (when transmit), n=0-F (when receive) 01001100 4C = Model ID 0hhhhhhh hh = Address High 0mmmmmmm mm = Address Mid 01111111 ll = Address Low 11110111 F7 = End of Exclusive	○ *Parameter Change Tableを参照 ただし、0A nn 40 は ×	×	×	×	×

### ■ システムエクスクルーシブメッセージ(その他)

MIDI Event	データフォーマット	MIDI受信(各PARTの発音への効果の有無)			MIDI送信(データ発生元)	
		Song	R1 R2 L	Keyboard	Panel (主な出力方法)	Song
MIDI Master Tuning	FO 43 1n 27 30 00 00 0m 0l cc F7 11110000 FO = Exclusive status 01000011 43 = YAMAHA ID 0001nmmn 1n = always 0 (when transmit), n=0-F (when receive) 00100111 27 = Model ID of TG100 00110000 30 = Address High 00000000 00 = Address Mid 00000000 00 = Address Low 0000mnm 0m = Master Tune MSB 00001111 0l = Master Tune LSB 0cececcc cc = don't care 11110111 F7 = End of Exclusive	○	○	○	×	×

## ■ システムエクスクルーシブメッセージ(パネルボイス関連)

MIDI Event	データフォーマット	MIDI受信(各PARTの発音への効果の有無)			MIDI送信(データ発生元)	
		Song	R1 R2 L	Keyboard	Panel (主な出力方法)	Song
String Resonance Depth	F0 43 73 01 50 11 0n 02 dd F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01110011 73 = Clavinova ID 00000001 01 = Model ID (Clavinova common ID) 01010000 50 = Sub-ID 00010001 11 = Sub-ID 0000mnmn 0n = Channel (00-0F) 00000010 02 = Sub-ID (String Resonance Depth) 00000000 dd = Depth (00-48) 11110111 F7 = End of Exclusive	×	×	×	×	○
Sustain Sample Depth	F0 43 73 01 50 11 0n 03 dd F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01110011 73 = Clavinova ID 00000001 01 = Model ID (Clavinova common ID) 01010000 50 = Sub-ID 00010001 11 = Sub-ID 0000mnmn 0n = Channel (00-0F) 00000011 03 = Sub-ID (Sustain Sample Depth) 00000000 dd = Depth (00-48) 11110111 F7 = End of Exclusive	×	×	×	×	○
Key Off Sampling Depth	F0 43 73 01 50 11 0n 04 dd F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01110011 73 = Clavinova ID 00000001 01 = Model ID (Clavinova common ID) 01010000 50 = Sub-ID 00010001 11 = Sub-ID 0000mnmn 0n = Channel (00-0F) 00000100 04 = Sub-ID (Key Off Sampling Depth) 00000000 dd = Depth (00-50) 11110111 F7 = End of Exclusive	○	○	×	○ (Function)	○
Soft Pedal Depth	F0 43 73 01 50 11 0n 05 dd F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01110011 73 = Clavinova ID 00000001 01 = Model ID (Clavinova common ID) 01010000 50 = Sub-ID 00010001 11 = Sub-ID 0000mnmn 0n = Channel (00-0F) 00000101 05 = Sub-ID (Soft Pedal Depth) 00000000 dd = Depth (00-7F) 11110111 F7 = End of Exclusive	○	○	×	○ (Function)	○

\*各Depth値のリセット値は40H=ボイスパラメーターとします。

ファンクション		送信	受信	備考
ベーシック チャンネル	電源ON時 設定可能	1 ~ 16 チャンネル ○	1 ~ 16 チャンネル ○	
モード	電源ON時 メッセージ 代用	モード 3 × *****	モード 3 × ×	
ノートナンバー	音域	0 ~ 127 *****	0 ~ 127 0 ~ 127	
ベロシティ	ノートオン ノートオフ	○ 9nH, v=1 ~ 127 ○ 8nH, v=1 ~ 127	○ 9nH, v=1 ~ 127 ○ 9nH, v=0または8nH	
アフタータッチ	キー別 チャンネル別	× ×	○ ○	
ピッチベンド		○	○ 0 ~ 24 セミ	*1
コントロールチェンジ	0, 32 1, 5 7, 10, 11 6, 38 64, 66, 67 65 71, 74 72, 73 84, 94 91, 93 96 - 97 98 - 99 100 - 101	○ ×*2 ○ ○ ○ ×*2 ○ ×*2 ×*2 ○ ×*2 ×*2 ○	○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	バンクセレクト  データエントリー ペダル ポルタメントコントロール サウンドコントローラー サウンドコントローラー  エフェクトデプス RPNインクリメント、デクリメント NRPN LSB、MSB RPN LSB、MSB
プログラムチェンジ	設定可能範囲	○ 0 ~ 127 *****	○ 0 ~ 127	
システムエクスクルーシブ		○	○	
コモン	ソングポジション ソングセレクト チューン	× × ×	× × ×	
リアルタイム	クロック コマンド	○ ○	× ○	
Aux メッセージ	オールサウンドオフ リセットオールコントロール ローカルオン/オフ オールノートオフ アクティブセンシング リセット	× × × × ○ ×	○ (120,126,127) ○ (121) ○ (122) ○ (123 ~ 125) ○ ×	
備考	<p>*1 一部のボイスでは、ピッチベンド幅の設定どおりに音の高さが変化しない場合があります。</p> <p>*2 これらのコントロールチェンジはパネル操作によって送信されませんが、ソング演奏中に送信されることがあります。</p>			

モード1 : オムニ・オン、ポリ  
モード3 : オムニ・オフ、ポリ

モード2 : オムニ・オン、モノ  
モード4 : オムニ・オフ、モノ

○ : あり  
× : なし