

MIDIインプリメンテーション

Model : RV-500
Date : July 01, 2017
Version : 1.00

1. 受信データ

“MIDI: MIDI IN->OUT”、“MIDI: USB IN->OUT”の設定により受信したメッセージは、そのまま送信されます。

■チャンネル・ボイス・メッセージ

“MIDI: Rx CHANNEL”と受信MIDIチャンネル・ナンバーが一致した場合に受信します。

●コントロール・チェンジ

○バンク・セレクト

ステータス	第 2 バイト	第 3 バイト
BnH	00H	mmH
BnH	20H	00H

n = MIDI チャンネル・ナンバー : 0H - FH (0 - 15) 0=ch.1 15=ch.16
mm = バンク・ナンバー (MSB) : 00H - 02H (0 - 2)

※起動後バンク・セレクトを受信するまでは、本機はバンク・ナンバーが00Hとして動作します。

○コントロール・チェンジ・ナンバー #1～#31 (MSB)、#33 - #63 (LSB)、#64～#95

ステータス	第 2 バイト	第 3 バイト
BnH	ccH	vvH

n = MIDI チャンネル・ナンバー : 0H - FH (0 - 15) 0=ch.1 15=ch.16
cc = コントロール・チェンジ・ナンバー : 01H - 1FH (1 - 31) (MSB) 20H - 3FH (32-63) (LSB)、40H - 5FH (64-95)
vv = コントロール値 : 00H - 7FH (0 - 127)

・“MIDI CC IN” = ONのときに認識します
・“Assign : SRC”をCC#1 ~ #31、CC#64 ~ #95に設定した場合に認識します。
target value = (parameter min) + (((cc value) - (act range low)) * (parameter range)) / ((act range High) - (act range Low))

・“MIDI: TIME CC (R)”、“MIDI: PRE-DLY CC (R)”、“MIDI: E.LEVEL CC (R)”、“MIDI: LOW CC (R)”、“MIDI: HIGH CC (R)”、“MIDI: TIME CC (D)”、“MIDI: PRE-DLY CC (D)”、“MIDI: E.LEVEL CC (D)”、“MIDI: LOW CC (D)”、“MIDI: HIGH CC (D)”、“MIDI: CTL1 CC”、“MIDI: CTL2 CC”、“MIDI: EXP CC”、“MIDI: EFFECT CC”、“MIDI: EFFECT A CC”、“MIDI: EFFECT B CC”に設定したCC#を受信したときに、その設定した操作子の動作をします。
“MIDI: TIME CC (D)”を#1 - #31に設定した場合には14ビット(対応するLSB CC (#33 - #63)も使用します)。
それ以外ではassignと同じ変換をします。

●プログラム・チェンジ

ステータス	第 2 バイト
CnH	ppH

n = MIDI チャンネル・ナンバー : 0H - FH (0 - 15) 0 = ch.1 15 = ch.16
pp = プログラム・ナンバー : 00H - 7FH (0 - 127)

※“MIDI PC MAP”に設定されているパッチに切り替わります。

■システム・リアルタイム・メッセージ

●タイミグ・クロック

ステータス
F8H

※“MIDI: SYNC”の設定がINTERNAL以外のときに認識します。

●アクティブ・センシング

ステータス
FEH

アクティブ・センシングを受信すると、それ以降のすべてのメッセージ間隔を監視する状態になります。
監視している状態でメッセージ間隔が400msを超えると、ディスプレイに“MIDI OFFLINE”と表示し、
メッセージ間隔を監視しない状態に戻ります。

■システム・エクスクルーシブ・メッセージ

ステータス	データバイト	ステータス
FOH	iiH, dev, ddH, ..., eeH	F7H
FOH:	システム・エクスクルーシブ・メッセージのステータス	
iiH:	IDナンバー 41H: マニファクチャラーID (Roland) 7EH: ユニバーサル・ノンリアルタイム・メッセージ	
dev	デバイスID (dev: 00H-1FH, 7FH) * 7FH =ブロードキャスト	
dd, ..., ee = データ:	00H-7FH (0-127)	
F7H:	EOX (エンド・オブ・エクスクルーシブ)	

●ユニバーサル・ノンリアルタイム・システム・エクスクルーシブ・メッセージ

○アイデンティティ・リクエスト・メッセージ

ステータス	データバイト	ステータス
FOH,	7EH, dev, 06H, 01H,	F7H
バイト	解説	
FOH	エクスクルーシブ・ステータス	
7EH	ID ナンバー (ユニバーサル・ノンリアルタイム・メッセージ)	
dev	デバイス ID (dev: 00H-1FH, 7FH) * 7FH = ブロードキャスト	
06H	サブ ID # 1 (General Information)	
01H	サブ ID # 2 (Identity Request)	
F7H	EOX (エンド・オブ・エクスクルーシブ)	

このメッセージを受信すると、本機は所定のアイデンティティ・リブライ・メッセージ(送信データ参照)を送信します。

●ファン・ウェイ・コミュニケーション

○リクエストデータ1 RQ1 (11H)

ステータス	データバイト	ステータス
FOH,	41H, dev, 00H, 00H, 00H, 42H, 11H, aaH, bbH, ccH, ddH, ssH, ttH, uuH, vvH, sum,	F7H
バイト	解説	
FOH	エクスクルーシブ・ステータス	
41H	マニファクチャラーID (Roland)	
dev	デバイス ID (00H-1FH, 7FH) * 7FH = ブロードキャスト	
00H	モデル ID # 1 (RV-500)	
00H	モデル ID # 2 (RV-500)	
00H	モデル ID # 3 (RV-500)	
42H	モデル ID # 4 (RV-500)	
11H	コマンド ID (RQ1)	
aaH	アドレス MSB	
bbH	アドレス	
ccH	アドレス	
ddH	アドレス LSB	
ssH	サイズ MSB	
ttH	サイズ	
uuH	サイズ	
vvH	サイズ LSB	
sum	チェックサム	
F7H	EOX (エンド・オブ・エクスクルーシブ)	

○データ・セット1 DT1 (12H)

ステータス	データバイト	ステータス
FOH,	41H, dev, 00H, 00H, 00H, 42H, 12H, aaH, bbH, ccH, ddH, eeH, ... hhH, sum,	F7H
バイト	解説	
FOH	エクスクルーシブ・ステータス	
41H	マニファクチャラーID (Roland)	
dev	デバイス ID (00H-1FH, 7FH) * 7FH = ブロードキャスト	
00H	モデル ID # 1 (RV-500)	
00H	モデル ID # 2 (RV-500)	
00H	モデル ID # 3 (RV-500)	
42H	モデル ID # 4 (RV-500)	
12H	コマンド ID (DT1)	
aaH	アドレス MSB	
bbH	アドレス	
ccH	アドレス	
ddH	アドレス LSB	
eeH	データ	
:		
ffH	データ	
sum	チェックサム	
F7H	EOX (エンド・オブ・エクスクルーシブ)	

2. 送信データ

■チャンネル・ボイス・メッセージ

チャンネル・ボイス・メッセージの送信MIDIチャンネル・ナンバーは“MIDI: Tx CHANNEL”を設定してください。

●コントロール・チェンジ

○バンク・セレクト

ステータス	第 2 バイト	第 3 バイト
BnH	00H	mmH
BnH	20H	00H

n = MIDI チャンネル・ナンバー : 0H - FH (0 - 15) 0=ch.1 15=ch.16
mm = バンク・ナンバー (MSB) : 00H - 02H (0 - 2)

※ “MIDI: PC OUT”をONに設定すると、パッチ切り換え時に送信します。
“BANK SEL OUT”がMSBの場合にはBnH 00H mmH (MSB)のみ送信します。

○コントロール・チェンジ・ナンバー#1~#31 (MSB)、#33 - #63 (LSB)、#64~#95

ステータス	第 2 バイト	第 3 バイト
BnH	ccH	vvH

n = MIDI チャンネル・ナンバー : 0H - FH (0 - 15) 0=ch.1 15=ch.16
cc = コントロール・チェンジ・ナンバー : 01H - 1FH (MSB)、21H - 3FH (LSB)、40H - 5FH (1 - 31, 33 - 63, 64 - 95)

vv = コントロール値 : 00H - 7FH (0 - 127)

※“MIDI CC OUT” = ONのときに送信します。

・操作子を操作したとき、“MIDI: TIME CC (R)”、“MIDI: PRE-DLY CC (R)”、“MIDI: E.LEVEL CC (R)”、“MIDI: LOW CC (R)”、“MIDI: HIGH CC (R)”、“MIDI: TIME CC (D)”、“MIDI: PRE-DLY CC (D)”、“MIDI: E.LEVEL CC (D)”、“MIDI: LOW CC (D)”、“MIDI: HIGH CC (D)”、“MIDI: CTL1 CC”、“MIDI: CTL2 CC”、“MIDI: EXP CC”、“MIDI: EFFECT CC”、“MIDI: EFFECT A CC”、“MIDI: EFFECT B CC”のそれぞれに設定されたCC#を送信します。

“MIDI: TIME CC(D)”がCC #1 - #31の場合

$vv(\text{MSB}) = (((\text{parameter value}) * 16383) / (\text{time range})) / 128$

$vv(\text{LSB}) = (((\text{parameter value}) * 16383) / (\text{time range})) - (vv(\text{MSB}) * 128)$

“MIDI: TIME CC(D)”がCC #64 - #95の場合

$vv = (((\text{parameter value}) * 127) / (\text{time range}))$

その他: $vv = (((\text{parameter value}) - (\text{parameter min}) * 127) / ((\text{parameter max}) - (\text{parameter min})))$

●プログラム・チェンジ

ステータス 第 2 バイト

CnH ppH

n = MIDI チャンネル・ナンバー : 0H - FH (0 - 15) 0 = ch.1 15 = ch.16
pp = プログラム・ナンバー : 00H - 7FH (0 - 127)

※ “MIDI: PC OUT”をONに設定すると、パッチ切り換え時に送信します。

※ パッチ#とプログラム・ナンバーとの対応は以下の通りです。

PATCH#	BANK MSB	SEL. LSB	PROG#
01A	00H	00H	00H
⋮	⋮	⋮	⋮
43B	00H	00H	7FH
⋮	⋮	⋮	⋮
43C	01H	00H	00H
⋮	⋮	⋮	⋮
86A	01H	00H	7FH
⋮	⋮	⋮	⋮
86B	02H	00H	00H
⋮	⋮	⋮	⋮
99C	02H	00H	28H

■システム・リアルタイム・メッセージ

●タイミング・クロック

ステータス

F8H

“MIDI: SYNC” = INTERNALのとき、かつ、“MIDI: REALTIME_SRC”=INTのとき、テンポに応じた間隔で常を送信します。
“MIDI: REALTIME_SRC”がINT以外のときは、設定に対応したタイミング・クロックを受信したときに送信します。

●アクティブ・センシング

ステータス

FEH

約 250 ms間隔で常を送信されます。

■システム・エクスクルーシブ・メッセージ

ステータス	データバイト	ステータス
FOH	41H, ddH, ..., eeH	F7H

FOH: システム・エクスクルーシブ・メッセージのステータス
41H: マニファクチャラーID (Roland)
dd, ..., ee = データ: 00H-7FH (0-127)
F7H: EOX (エンド・オブ・エクスクルーシブ)

●ユニバーサル・ノンリアルタイム・システム・エクスクルーシブ・メッセージ

○アイデンティティー・リプライ・メッセージ

ステータス	データバイト	ステータス
FOH,	7EH, dev, 06H, 02H, 41H, 42H, 03H, 00H, 00H, 00H, 00H, 01H,	F7

バイト 解説

FOH エクスクルーシブ・ステータス
7EH ID ナンバー (ユニバーサル・ノンリアルタイム・メッセージ)
dev デバイス ID (dev: 00H - 1FH)
06H サブ ID # 1 (General Information)
02H サブ ID # 2 (Identity Reply)
41H マニファクチャラーID (Roland)
42H 03H デバイス・ファミリー・コード # 1 (RV-500)
00H 00H デバイス・ファミリー・コード # 2 (RV-500)
00H ソフトウェア・リビジョン・レベル # 1
00H ソフトウェア・リビジョン・レベル # 2
00H ソフトウェア・リビジョン・レベル # 3
01H ソフトウェア・リビジョン・レベル # 4
F7H EOX (エンド・オブ・エクスクルーシブ)

アイデンティティー・リクエスト・メッセージを受信した場合、このメッセージを送信します。

●ワン・ウェイ・コミュニケーション

○データ・セット1 DT1 (12H)

ステータス	データバイト	ステータス
FOH,	41H, dev, 00H, 00H, 00H, 42H, 12H, aaH, bbH, ccH, ddH, eeH, ... hhH, sum,	F7H
バイト	解説	
FOH	エクスクルーシブ・ステータス	
41H	マニファクチャラーID (Roland)	
dev	デバイス ID (00H-1FH)	
00H	モデル ID # 1 (RV-500)	
00H	モデル ID # 2 (RV-500)	
00H	モデル ID # 3 (RV-500)	
42H	モデル ID # 4 (RV-500)	
12H	コマンド ID (DT1)	
aaH	アドレス MSB	
bbH	アドレス	
ccH	アドレス	
ddH	アドレス LSB	
eeH	データ	
:		
ffH	データ	
sum	チェックサム	
F7H	EOX (エンド・オブ・エクスクルーシブ)	

3. System Exclusive Address Map

RV-500 (Model ID : 00H 00H 00H 42H)

Start Address	Description	
00 00 00 00	Setup	*1-1
10 00 00 00	System	*1-2
20 00 00 00	MIDI Program change map	*1-3
30 00 00 00	BANK (Temporary)	*1-4
30 04 00 00	BANK 01 (01A/01B/01C)	*1-4
:	:	
33 0C 00 00	BANK 99 (99A/99B/99C)	*1-4

*1-1 Setup

Offset Address	Description	
00 00 00	Setup Common	*2-1

*1-2 System

Offset Address	Description	
00 00 00	System Common	*2-2
00 10 00	System Control	*2-3

*1-3 MIDI Program change map

Offset Address	Description	
00 00 00	MIDI Program change map	*2-4

*1-4 BANK

Offset Address	Description	
00 00 00	BANK parameter for simul	*2-5
00 10 00	PATCH A	*2-6
00 20 00	PATCH B	*2-6
00 30 00	PATCH C	*2-6

*2-1 Setup Common Parameters Offset Address

Offset Address	Description	
00 00	0000 000a Current Patch Number	(0 - 296) 01A - 99C
	0000 bbbb	
	0000 cccc	

*2-2 System Common Parameters Offset Address

Offset Address	Description	
00 00	0000 00dd Output Mode	(0 - 2) STEREO, A:DIR B:EFX, DIRECT MUTE

00 01	0000 000d	Bank wait mode	(0 - 1) WAIT, IMMEDIATE
00 02	00dd dddd	Bank Extent Begin	(0 - 98) 01 - 99
00 03	00dd dddd	Bank Extent End	(0 - 98) 01 - 99
00 04	0000 000d	Knob Lock Switch	(0 - 1) OFF, ON
00 05	0000 000d	Knob Mode	(0 - 1) IMMEDIATE, HOOK
00 06	0000 000d	Bypass Mode	(0 - 1) BUFFERED, TRUE
00 07	0000 000d	Pedal Action	(0 - 1) PUSH, RELEASE
00 08	0000 00dd	Foot Switch Mode	(0 - 3) NORMAL, A/B/C, A/B SIMUL, SW DN/UP
00 09	0000 00dd	Display Type	(0 - 3) DISP_TIME, DISP_BPM, DISP_PATCH, DISP_PARAM
00 0A	000d dddd	MIDI Rx Channel	(0 - 16) Ch. 1, Ch. 2, Ch. 3, Ch. 4, Ch. 5, Ch. 6, Ch. 7, Ch. 8, Ch. 9, Ch. 10, Ch. 11, Ch. 12, Ch. 13, Ch. 14, Ch. 15, Ch. 16, OFF
00 0B	000d dddd	MIDI Tx Channel	(0 - 17) Ch. 1, Ch. 2, Ch. 3, Ch. 4, Ch. 5, Ch. 6, Ch. 7, Ch. 8, Ch. 9, Ch. 10, Ch. 11, Ch. 12, Ch. 13, Ch. 14, Ch. 15, Ch. 16, Rx, OFF
00 0C	0000 000d	MIDI Program Change IN	(0 - 1) OFF, ON
00 0D	0000 000d	MIDI Program Change OUT	(0 - 1) OFF, ON
00 0E	0000 000d	MIDI Bank Select OUT	(0 - 1) MSB, M+L
00 0F	0000 000d	MIDI Control Change IN	(0 - 1) OFF, ON
00 10	0000 000d	MIDI Control Change OUT	(0 - 1) OFF, ON
00 11	00dd dddd	MIDI Reverb Time Control Change	(0 - 63) OFF, CC#1, CC#2, CC#3, CC#4, CC#5, CC#6, CC#7, CC#8, CC#9, CC#10, CC#11, CC#12, CC#13, CC#14, CC#15, CC#16, CC#17, CC#18, CC#19, CC#20, CC#21, CC#22, CC#23, CC#24, CC#25, CC#26, CC#27, CC#28, CC#29, CC#30, CC#31, CC#64, CC#65, CC#66, CC#67, CC#68, CC#69, CC#70, CC#71, CC#72, CC#73, CC#74, CC#75, CC#76, CC#77, CC#78, CC#79, CC#80, CC#81, CC#82, CC#83, CC#84, CC#85, CC#86, CC#87, CC#88, CC#89, CC#90, CC#91, CC#92, CC#93, CC#94, CC#95
00 12	00dd dddd	MIDI Reverb Pre-Delay Control Change	(0 - 63) OFF, CC#1, CC#2, CC#3, CC#4, CC#5, CC#6, CC#7, CC#8, CC#9, CC#10, CC#11, CC#12, CC#13, CC#14, CC#15, CC#16, CC#17, CC#18, CC#19, CC#20, CC#21, CC#22, CC#23, CC#24, CC#25, CC#26, CC#27, CC#28, CC#29, CC#30, CC#31, CC#64, CC#65, CC#66, CC#67, CC#68, CC#69, CC#70, CC#71, CC#72, CC#73, CC#74, CC#75, CC#76, CC#77, CC#78, CC#79, CC#80, CC#81, CC#82, CC#83, CC#84, CC#85, CC#86, CC#87, CC#88, CC#89, CC#90, CC#91, CC#92, CC#93, CC#94, CC#95
00 13	00dd dddd	MIDI Reverb E.Level Control Change	(0 - 63) OFF, CC#1, CC#2, CC#3, CC#4, CC#5, CC#6, CC#7, CC#8, CC#9, CC#10, CC#11, CC#12, CC#13, CC#14, CC#15, CC#16, CC#17, CC#18, CC#19, CC#20, CC#21, CC#22, CC#23, CC#24, CC#25, CC#26, CC#27, CC#28, CC#29, CC#30, CC#31, CC#64, CC#65, CC#66, CC#67, CC#68, CC#69, CC#70, CC#71, CC#72, CC#73, CC#74, CC#75, CC#76, CC#77, CC#78, CC#79, CC#80, CC#81, CC#82, CC#83, CC#84, CC#85, CC#86, CC#87, CC#88, CC#89, CC#90, CC#91, CC#92, CC#93, CC#94, CC#95
00 14	00dd dddd	MIDI Reverb Low Control Change	(0 - 63) OFF, CC#1, CC#2, CC#3, CC#4, CC#5, CC#6, CC#7, CC#8, CC#9, CC#10, CC#11, CC#12, CC#13, CC#14, CC#15, CC#16, CC#17, CC#18, CC#19, CC#20, CC#21, CC#22, CC#23, CC#24, CC#25, CC#26, CC#27, CC#28, CC#29, CC#30, CC#31, CC#64, CC#65, CC#66, CC#67, CC#68, CC#69, CC#70, CC#71, CC#72, CC#73, CC#74, CC#75, CC#76, CC#77, CC#78, CC#79, CC#80, CC#81, CC#82, CC#83, CC#84, CC#85, CC#86, CC#87, CC#88, CC#89, CC#90, CC#91, CC#92, CC#93, CC#94, CC#95
00 15	00dd dddd	MIDI Reverb High Control Change	(0 - 63) OFF, CC#1, CC#2, CC#3, CC#4, CC#5, CC#6, CC#7, CC#8, CC#9, CC#10, CC#11, CC#12, CC#13, CC#14, CC#15, CC#16, CC#17, CC#18, CC#19, CC#20, CC#21, CC#22, CC#23, CC#24, CC#25, CC#26, CC#27, CC#28, CC#29, CC#30, CC#31, CC#64, CC#65, CC#66, CC#67, CC#68, CC#69, CC#70, CC#71, CC#72, CC#73, CC#74, CC#75, CC#76, CC#77, CC#78, CC#79, CC#80, CC#81, CC#82, CC#83, CC#84, CC#85, CC#86, CC#87, CC#88, CC#89, CC#90, CC#91, CC#92, CC#93, CC#94, CC#95
00 16	00dd dddd	MIDI Delay Time Control Change	(0 - 63) OFF, CC#1, CC#2, CC#3, CC#4, CC#5, CC#6, CC#7, CC#8, CC#9, CC#10, CC#11, CC#12, CC#13, CC#14, CC#15, CC#16, CC#17, CC#18, CC#19, CC#20, CC#21, CC#22, CC#23, CC#24, CC#25, CC#26, CC#27, CC#28, CC#29, CC#30, CC#31, CC#64, CC#65, CC#66, CC#67, CC#68, CC#69, CC#70, CC#71, CC#72, CC#73, CC#74, CC#75, CC#76, CC#77, CC#78, CC#79, CC#80, CC#81, CC#82, CC#83, CC#84, CC#85, CC#86, CC#87, CC#88, CC#89, CC#90, CC#91, CC#92, CC#93, CC#94, CC#95
00 17	00dd dddd	MIDI Delay Pre-Delay Control Change	(0 - 63) OFF, CC#1, CC#2, CC#3, CC#4, CC#5, CC#6, CC#7, CC#8, CC#9, CC#10, CC#11, CC#12, CC#13, CC#14, CC#15, CC#16, CC#17, CC#18, CC#19, CC#20, CC#21, CC#22, CC#23, CC#24, CC#25, CC#26, CC#27, CC#28, CC#29, CC#30, CC#31, CC#64, CC#65, CC#66, CC#67, CC#68, CC#69, CC#70, CC#71, CC#72, CC#73, CC#74, CC#75, CC#76, CC#77, CC#78, CC#79, CC#80, CC#81, CC#82, CC#83, CC#84, CC#85, CC#86, CC#87, CC#88, CC#89, CC#90, CC#91, CC#92, CC#93, CC#94, CC#95
00 18	00dd dddd	MIDI Delay E.Level Control Change	(0 - 63) OFF, CC#1, CC#2, CC#3, CC#4, CC#5, CC#6, CC#7, CC#8, CC#9, CC#10, CC#11, CC#12, CC#13, CC#14, CC#15, CC#16, CC#17, CC#18, CC#19, CC#20, CC#21, CC#22, CC#23, CC#24, CC#25, CC#26, CC#27, CC#28, CC#29, CC#30, CC#31, CC#64, CC#65, CC#66, CC#67, CC#68, CC#69, CC#70, CC#71, CC#72, CC#73, CC#74, CC#75, CC#76, CC#77, CC#78, CC#79, CC#80, CC#81, CC#82, CC#83, CC#84, CC#85, CC#86, CC#87, CC#88, CC#89, CC#90, CC#91, CC#92, CC#93, CC#94, CC#95
00 19	00dd dddd	MIDI Delay Low Control Change	(0 - 63) OFF, CC#1, CC#2, CC#3, CC#4, CC#5, CC#6, CC#7, CC#8, CC#9, CC#10, CC#11, CC#12, CC#13, CC#14, CC#15, CC#16, CC#17, CC#18, CC#19, CC#20, CC#21, CC#22, CC#23, CC#24, CC#25, CC#26, CC#27, CC#28, CC#29, CC#30, CC#31, CC#64, CC#65, CC#66, CC#67, CC#68, CC#69, CC#70, CC#71, CC#72, CC#73, CC#74, CC#75, CC#76, CC#77, CC#78, CC#79, CC#80, CC#81, CC#82, CC#83, CC#84, CC#85, CC#86, CC#87, CC#88, CC#89, CC#90, CC#91, CC#92, CC#93, CC#94, CC#95
00 1A	00dd dddd	MIDI Delay High Control Change	(0 - 63) OFF, CC#1, CC#2, CC#3, CC#4, CC#5, CC#6, CC#7, CC#8, CC#9, CC#10, CC#11, CC#12, CC#13, CC#14, CC#15, CC#16, CC#17, CC#18, CC#19, CC#20, CC#21, CC#22, CC#23, CC#24, CC#25, CC#26, CC#27, CC#28, CC#29, CC#30, CC#31, CC#64, CC#65, CC#66, CC#67, CC#68, CC#69, CC#70, CC#71, CC#72, CC#73, CC#74, CC#75, CC#76, CC#77, CC#78, CC#79, CC#80, CC#81, CC#82, CC#83, CC#84, CC#85, CC#86, CC#87, CC#88, CC#89, CC#90, CC#91, CC#92, CC#93, CC#94, CC#95
00 1B	00dd dddd	MIDI EFFECT ON/OFF Control Change	(0 - 63) OFF, CC#1, CC#2, CC#3, CC#4, CC#5, CC#6, CC#7, CC#8, CC#9, CC#10, CC#11,

				CC#12, CC#13, CC#14, CC#15, CC#16, CC#17, CC#18, CC#19, CC#20, CC#21, CC#22, CC#23, CC#24, CC#25, CC#26, CC#27, CC#28, CC#29, CC#30, CC#31, CC#64, CC#65, CC#66, CC#67, CC#68, CC#69, CC#70, CC#71, CC#72, CC#73, CC#74, CC#75, CC#76, CC#77, CC#78, CC#79, CC#80, CC#81, CC#82, CC#83, CC#84, CC#85, CC#86, CC#87, CC#88, CC#89, CC#90, CC#91, CC#92, CC#93, CC#94, CC#95 (0 - 63)
00 1C	00dd dddd	MIDI EFFECT A ON/OFF Control Change		OFF, CC#1, CC#2, CC#3, CC#4, CC#5, CC#6, CC#7, CC#8, CC#9, CC#10, CC#11, CC#12, CC#13, CC#14, CC#15, CC#16, CC#17, CC#18, CC#19, CC#20, CC#21, CC#22, CC#23, CC#24, CC#25, CC#26, CC#27, CC#28, CC#29, CC#30, CC#31, CC#64, CC#65, CC#66, CC#67, CC#68, CC#69, CC#70, CC#71, CC#72, CC#73, CC#74, CC#75, CC#76, CC#77, CC#78, CC#79, CC#80, CC#81, CC#82, CC#83, CC#84, CC#85, CC#86, CC#87, CC#88, CC#89, CC#90, CC#91, CC#92, CC#93, CC#94, CC#95 (0 - 63)
00 1D	00dd dddd	MIDI EFFECT B ON/OFF Control Change		OFF, CC#1, CC#2, CC#3, CC#4, CC#5, CC#6, CC#7, CC#8, CC#9, CC#10, CC#11, CC#12, CC#13, CC#14, CC#15, CC#16, CC#17, CC#18, CC#19, CC#20, CC#21, CC#22, CC#23, CC#24, CC#25, CC#26, CC#27, CC#28, CC#29, CC#30, CC#31, CC#64, CC#65, CC#66, CC#67, CC#68, CC#69, CC#70, CC#71, CC#72, CC#73, CC#74, CC#75, CC#76, CC#77, CC#78, CC#79, CC#80, CC#81, CC#82, CC#83, CC#84, CC#85, CC#86, CC#87, CC#88, CC#89, CC#90, CC#91, CC#92, CC#93, CC#94, CC#95 (0 - 63)
00 1E	00dd dddd	MIDI CTL1 Control Change		OFF, CC#1, CC#2, CC#3, CC#4, CC#5, CC#6, CC#7, CC#8, CC#9, CC#10, CC#11, CC#12, CC#13, CC#14, CC#15, CC#16, CC#17, CC#18, CC#19, CC#20, CC#21, CC#22, CC#23, CC#24, CC#25, CC#26, CC#27, CC#28, CC#29, CC#30, CC#31, CC#64, CC#65, CC#66, CC#67, CC#68, CC#69, CC#70, CC#71, CC#72, CC#73, CC#74, CC#75, CC#76, CC#77, CC#78, CC#79, CC#80, CC#81, CC#82, CC#83, CC#84, CC#85, CC#86, CC#87, CC#88, CC#89, CC#90, CC#91, CC#92, CC#93, CC#94, CC#95 (0 - 63)
00 1F	00dd dddd	MIDI CTL2 Control Change		OFF, CC#1, CC#2, CC#3, CC#4, CC#5, CC#6, CC#7, CC#8, CC#9, CC#10, CC#11, CC#12, CC#13, CC#14, CC#15, CC#16, CC#17, CC#18, CC#19, CC#20, CC#21, CC#22, CC#23, CC#24, CC#25, CC#26, CC#27, CC#28, CC#29, CC#30, CC#31, CC#64, CC#65, CC#66, CC#67, CC#68, CC#69, CC#70, CC#71, CC#72, CC#73, CC#74, CC#75, CC#76, CC#77, CC#78, CC#79, CC#80, CC#81, CC#82, CC#83, CC#84, CC#85, CC#86, CC#87, CC#88, CC#89, CC#90, CC#91, CC#92, CC#93, CC#94, CC#95 (0 - 63)
00 20	00dd dddd	MIDI EXP Control Change		OFF, CC#1, CC#2, CC#3, CC#4, CC#5, CC#6, CC#7, CC#8, CC#9, CC#10, CC#11, CC#12, CC#13, CC#14, CC#15, CC#16, CC#17, CC#18, CC#19, CC#20, CC#21, CC#22, CC#23, CC#24, CC#25, CC#26, CC#27, CC#28, CC#29, CC#30, CC#31, CC#64, CC#65, CC#66, CC#67, CC#68, CC#69, CC#70, CC#71, CC#72, CC#73, CC#74, CC#75, CC#76, CC#77, CC#78, CC#79, CC#80, CC#81, CC#82, CC#83, CC#84, CC#85, CC#86, CC#87, CC#88, CC#89, CC#90, CC#91, CC#92, CC#93, CC#94, CC#95 (0 - 63)
00 21	0000 00dd	MIDI Sync		INTERNAL, EXT (USB), EXT (MIDI), AUTO (0 - 2)
00 22	0000 00dd	MIDI source of realtime message to output		INT, USB, MIDI (0 - 3)
00 23	0000 00dd	MIDI In THRU into Out		OFF, USB, MIDI, U+M (0 - 3)
00 24	0000 00dd	USB In THRU into Out		OFF, USB, MIDI, U+M (0 - 3)
00 25	0000 000d	effect sw (SIMUL設定のときの起動時に設定されます patch A)		OFF - ON (0 - 1)
00 26	0000 000d	effect sw2 (SIMUL設定のときの起動時に設定されます patch B)		OFF - ON (0 - 1)

Offset	Address	Description
00 00	0000 000d	TAP/CTL preference (0 - 1) PATCH, SYSTEM
00 01	0000 dddd	TAP/CTL Function (0 - 8) OFF, HOLD, WARP, TWIST, TAP, MOMENT, FADE, BANK UP, BANK DOWN
00 02	0000 000d	TAP/CTL Mode (0 - 1) MOMENT, TOGGLE
00 03	0ddd dddd	TAP/CTL Hold Time (0 - 100) 0 - 100
00 04	0ddd dddd	TAP/CTL Twist Rise Time (0 - 100) 0 - 100
00 05	0ddd dddd	TAP/CTL Twist Fall Time (0 - 100) 0 - 100
00 06	0000 000d	CTL1 preference (0 - 1) PATCH, SYSTEM
00 07	0000 dddd	CTL1 Function (0 - 8) OFF, HOLD, WARP, TWIST, TAP, MOMENT, FADE, BANK UP, BANK DOWN
00 08	0000 000d	CTL1 Mode (0 - 1) MOMENT, TOGGLE
00 09	0ddd dddd	CTL1 Hold Time (0 - 100) 0 - 100
00 0A	0ddd dddd	CTL1 Twist Rise time (0 - 100) 0 - 100
00 0B	0ddd dddd	CTL1 Twist Fall time (0 - 100) 0 - 100
00 0C	0000 000d	CTL2 preference (0 - 1) PATCH, SYSTEM
00 0D	0000 dddd	CTL2 Function (0 - 8) OFF, HOLD, WARP, TWIST, TAP, MOMENT, FADE, BANK UP, BANK DOWN
00 0E	0000 000d	CTL2 Mode (0 - 1) MOMENT, TOGGLE
00 0F	0ddd dddd	CTL2 Hold Time (0 - 100) 0 - 100
00 10	0ddd dddd	CTL2 Rise Time (0 - 100) 0 - 100
00 11	0ddd dddd	CTL2 Fall Time (0 - 100) 0 - 100
00 12	0000 000d	EXP preference (0 - 1) PATCH, SYSTEM
00 13	0000 dddd	Exp Pedal Function (0 - 14) OFF, RV TIME, RV PRE-DLY, RV LOW, RV HIGH, RV LEVEL, RV MOD DPT, RV MOD RAT, DL TIME, DL F.BACK, DL LOW, DL HIGH, DL LEVEL, DL MOD DPT, DL MOD RAT
00 14	0000 00aa	Exp target Min (0 - 2400100) offset:100 -100 - 2400000
	0000 bbbb	
	0000 cccc	
	0000 dddd	
	0000 eeee	

00 1A	0000 ffff	Exp target Max	(0 - 2400100) offset:100 -100 - 2400000
	0000 00aa		
	0000 bbbb		
	0000 cccc		
	0000 dddd		
	0000 eeee		
	0000 ffff		

*2-4 MIDI Program change map Parameters Offset Address

Offset Address	Description		
00 00	0000 000a	BANK#:1 PC#:001	(0 - 296) 01A - 99C
	0000 bbbb		
	0000 cccc		
00 03	0000 000a	BANK#:1 PC#:002	(0 - 296) 01A - 99C
	0000 bbbb		
	0000 cccc		
00 06	0000 000a	BANK#:1 PC#:003	(0 - 296) 01A - 99C
	0000 bbbb		
	0000 cccc		
00 09	0000 000a	BANK#:1 PC#:004	(0 - 296) 01A - 99C
	0000 bbbb		
	0000 cccc		
00 0C	0000 000a	BANK#:1 PC#:005	(0 - 296) 01A - 99C
	0000 bbbb		
	0000 cccc		
00 0F	0000 000a	BANK#:1 PC#:006	(0 - 296) 01A - 99C
	0000 bbbb		
	0000 cccc		
00 12	0000 000a	BANK#:1 PC#:007	(0 - 296) 01A - 99C
	0000 bbbb		
	0000 cccc		
00 15	0000 000a	BANK#:1 PC#:008	(0 - 296) 01A - 99C
	0000 bbbb		
	0000 cccc		
00 18	0000 000a	BANK#:1 PC#:009	(0 - 296) 01A - 99C
	0000 bbbb		
	0000 cccc		
00 1B	0000 000a	BANK#:1 PC#:010	(0 - 296) 01A - 99C
	0000 bbbb		
	0000 cccc		
00 1E	0000 000a	BANK#:1 PC#:011	(0 - 296) 01A - 99C
	0000 bbbb		
	0000 cccc		
00 21	0000 000a	BANK#:1 PC#:012	(0 - 296) 01A - 99C
	0000 bbbb		
	0000 cccc		
00 24	0000 000a	BANK#:1 PC#:013	(0 - 296) 01A - 99C
	0000 bbbb		
	0000 cccc		
00 27	0000 000a	BANK#:1 PC#:014	(0 - 296) 01A - 99C
	0000 bbbb		
	0000 cccc		
00 2A	0000 000a	BANK#:1 PC#:015	(0 - 296) 01A - 99C
	0000 bbbb		
	0000 cccc		
00 2D	0000 000a	BANK#:1 PC#:016	(0 - 296) 01A - 99C
	0000 bbbb		
	0000 cccc		
00 30	0000 000a	BANK#:1 PC#:017	(0 - 296) 01A - 99C
	0000 bbbb		
	0000 cccc		
00 33	0000 000a	BANK#:1 PC#:018	(0 - 296) 01A - 99C
	0000 bbbb		
	0000 cccc		
00 36	0000 000a	BANK#:1 PC#:019	(0 - 296) 01A - 99C
	0000 bbbb		
	0000 cccc		
00 39	0000 000a	BANK#:1 PC#:020	(0 - 296) 01A - 99C
	0000 bbbb		
	0000 cccc		
00 3C	0000 000a	BANK#:1 PC#:021	(0 - 296) 01A - 99C
	0000 bbbb		
	0000 cccc		
00 3F	0000 000a	BANK#:1 PC#:022	(0 - 296) 01A - 99C
	0000 bbbb		
	0000 cccc		
00 42	0000 000a	BANK#:1 PC#:023	(0 - 296) 01A - 99C
	0000 bbbb		

00 45	0000 cccc 0000 000a	BANK#:1 PC#:024	(0 - 296) 01A - 99C
00 48	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:025	(0 - 296) 01A - 99C
00 4B	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:026	(0 - 296) 01A - 99C
00 4E	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:027	(0 - 296) 01A - 99C
00 51	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:028	(0 - 296) 01A - 99C
00 54	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:029	(0 - 296) 01A - 99C
00 57	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:030	(0 - 296) 01A - 99C
00 5A	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:031	(0 - 296) 01A - 99C
00 5D	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:032	(0 - 296) 01A - 99C
00 60	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:033	(0 - 296) 01A - 99C
00 63	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:034	(0 - 296) 01A - 99C
00 66	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:035	(0 - 296) 01A - 99C
00 69	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:036	(0 - 296) 01A - 99C
00 6C	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:037	(0 - 296) 01A - 99C
00 6F	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:038	(0 - 296) 01A - 99C
00 72	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:039	(0 - 296) 01A - 99C
00 75	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:040	(0 - 296) 01A - 99C
00 78	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:041	(0 - 296) 01A - 99C
00 7B	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:042	(0 - 296) 01A - 99C
00 7E	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:043	(0 - 296) 01A - 99C
01 01	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:044	(0 - 296) 01A - 99C
01 04	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:045	(0 - 296) 01A - 99C
01 07	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:046	(0 - 296) 01A - 99C
01 0A	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:047	(0 - 296) 01A - 99C
01 0D	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:048	(0 - 296) 01A - 99C
01 10	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:049	(0 - 296) 01A - 99C
01 13	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:050	(0 - 296)

	0000 bbbb		01A - 99C
	0000 cccc		(0 - 296)
01 16	0000 000a	BANK#:1 PC#:051	01A - 99C
	0000 bbbb		
	0000 cccc		(0 - 296)
01 19	0000 000a	BANK#:1 PC#:052	01A - 99C
	0000 bbbb		
	0000 cccc		(0 - 296)
01 1C	0000 000a	BANK#:1 PC#:053	01A - 99C
	0000 bbbb		
	0000 cccc		(0 - 296)
01 1F	0000 000a	BANK#:1 PC#:054	01A - 99C
	0000 bbbb		
	0000 cccc		(0 - 296)
01 22	0000 000a	BANK#:1 PC#:055	01A - 99C
	0000 bbbb		
	0000 cccc		(0 - 296)
01 25	0000 000a	BANK#:1 PC#:056	01A - 99C
	0000 bbbb		
	0000 cccc		(0 - 296)
01 28	0000 000a	BANK#:1 PC#:057	01A - 99C
	0000 bbbb		
	0000 cccc		(0 - 296)
01 2B	0000 000a	BANK#:1 PC#:058	01A - 99C
	0000 bbbb		
	0000 cccc		(0 - 296)
01 2E	0000 000a	BANK#:1 PC#:059	01A - 99C
	0000 bbbb		
	0000 cccc		(0 - 296)
01 31	0000 000a	BANK#:1 PC#:060	01A - 99C
	0000 bbbb		
	0000 cccc		(0 - 296)
01 34	0000 000a	BANK#:1 PC#:061	01A - 99C
	0000 bbbb		
	0000 cccc		(0 - 296)
01 37	0000 000a	BANK#:1 PC#:062	01A - 99C
	0000 bbbb		
	0000 cccc		(0 - 296)
01 3A	0000 000a	BANK#:1 PC#:063	01A - 99C
	0000 bbbb		
	0000 cccc		(0 - 296)
01 3D	0000 000a	BANK#:1 PC#:064	01A - 99C
	0000 bbbb		
	0000 cccc		(0 - 296)
01 40	0000 000a	BANK#:1 PC#:065	01A - 99C
	0000 bbbb		
	0000 cccc		(0 - 296)
01 43	0000 000a	BANK#:1 PC#:066	01A - 99C
	0000 bbbb		
	0000 cccc		(0 - 296)
01 46	0000 000a	BANK#:1 PC#:067	01A - 99C
	0000 bbbb		
	0000 cccc		(0 - 296)
01 49	0000 000a	BANK#:1 PC#:068	01A - 99C
	0000 bbbb		
	0000 cccc		(0 - 296)
01 4C	0000 000a	BANK#:1 PC#:069	01A - 99C
	0000 bbbb		
	0000 cccc		(0 - 296)
01 4F	0000 000a	BANK#:1 PC#:070	01A - 99C
	0000 bbbb		
	0000 cccc		(0 - 296)
01 52	0000 000a	BANK#:1 PC#:071	01A - 99C
	0000 bbbb		
	0000 cccc		(0 - 296)
01 55	0000 000a	BANK#:1 PC#:072	01A - 99C
	0000 bbbb		
	0000 cccc		(0 - 296)
01 58	0000 000a	BANK#:1 PC#:073	01A - 99C
	0000 bbbb		
	0000 cccc		(0 - 296)
01 5B	0000 000a	BANK#:1 PC#:074	01A - 99C
	0000 bbbb		
	0000 cccc		(0 - 296)
01 5E	0000 000a	BANK#:1 PC#:075	01A - 99C
	0000 bbbb		
	0000 cccc		(0 - 296)
01 61	0000 000a	BANK#:1 PC#:076	01A - 99C
	0000 bbbb		

01 64	0000 cccc 0000 000a	BANK#:1 PC#:077	(0 - 296) 01A - 99C
01 67	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:078	(0 - 296) 01A - 99C
01 6A	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:079	(0 - 296) 01A - 99C
01 6D	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:080	(0 - 296) 01A - 99C
01 70	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:081	(0 - 296) 01A - 99C
01 73	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:082	(0 - 296) 01A - 99C
01 76	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:083	(0 - 296) 01A - 99C
01 79	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:084	(0 - 296) 01A - 99C
01 7C	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:085	(0 - 296) 01A - 99C
01 7F	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:086	(0 - 296) 01A - 99C
02 02	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:087	(0 - 296) 01A - 99C
02 05	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:088	(0 - 296) 01A - 99C
02 08	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:089	(0 - 296) 01A - 99C
02 0B	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:090	(0 - 296) 01A - 99C
02 0E	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:091	(0 - 296) 01A - 99C
02 11	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:092	(0 - 296) 01A - 99C
02 14	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:093	(0 - 296) 01A - 99C
02 17	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:094	(0 - 296) 01A - 99C
02 1A	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:095	(0 - 296) 01A - 99C
02 1D	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:096	(0 - 296) 01A - 99C
02 20	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:097	(0 - 296) 01A - 99C
02 23	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:098	(0 - 296) 01A - 99C
02 26	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:099	(0 - 296) 01A - 99C
02 29	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:100	(0 - 296) 01A - 99C
02 2C	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:101	(0 - 296) 01A - 99C
02 2F	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:102	(0 - 296) 01A - 99C
02 32	0000 bbbb 0000 cccc 0000 000a	BANK#:1 PC#:103	(0 - 296)

	0000 bbbb		01A - 99C
	0000 cccc		(0 - 296)
02 35	0000 000a	BANK#:1 PC#:104	01A - 99C
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
02 38	0000 000a	BANK#:1 PC#:105	(0 - 296)
	0000 bbbb		01A - 99C
	0000 cccc		(0 - 296)
02 3B	0000 000a	BANK#:1 PC#:106	01A - 99C
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
02 3E	0000 000a	BANK#:1 PC#:107	(0 - 296)
	0000 bbbb		01A - 99C
	0000 cccc		(0 - 296)
02 41	0000 000a	BANK#:1 PC#:108	01A - 99C
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
02 44	0000 000a	BANK#:1 PC#:109	(0 - 296)
	0000 bbbb		01A - 99C
	0000 cccc		(0 - 296)
02 47	0000 000a	BANK#:1 PC#:110	01A - 99C
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
02 4A	0000 000a	BANK#:1 PC#:111	(0 - 296)
	0000 bbbb		01A - 99C
	0000 cccc		(0 - 296)
02 4D	0000 000a	BANK#:1 PC#:112	01A - 99C
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
02 50	0000 000a	BANK#:1 PC#:113	(0 - 296)
	0000 bbbb		01A - 99C
	0000 cccc		(0 - 296)
02 53	0000 000a	BANK#:1 PC#:114	01A - 99C
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
02 56	0000 000a	BANK#:1 PC#:115	(0 - 296)
	0000 bbbb		01A - 99C
	0000 cccc		(0 - 296)
02 59	0000 000a	BANK#:1 PC#:116	01A - 99C
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
02 5C	0000 000a	BANK#:1 PC#:117	(0 - 296)
	0000 bbbb		01A - 99C
	0000 cccc		(0 - 296)
02 5F	0000 000a	BANK#:1 PC#:118	01A - 99C
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
02 62	0000 000a	BANK#:1 PC#:119	(0 - 296)
	0000 bbbb		01A - 99C
	0000 cccc		(0 - 296)
02 65	0000 000a	BANK#:1 PC#:120	01A - 99C
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
02 68	0000 000a	BANK#:1 PC#:121	(0 - 296)
	0000 bbbb		01A - 99C
	0000 cccc		(0 - 296)
02 6B	0000 000a	BANK#:1 PC#:122	01A - 99C
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
02 6E	0000 000a	BANK#:1 PC#:123	(0 - 296)
	0000 bbbb		01A - 99C
	0000 cccc		(0 - 296)
02 71	0000 000a	BANK#:1 PC#:124	01A - 99C
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
02 74	0000 000a	BANK#:1 PC#:125	(0 - 296)
	0000 bbbb		01A - 99C
	0000 cccc		(0 - 296)
02 77	0000 000a	BANK#:1 PC#:126	01A - 99C
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
02 7A	0000 000a	BANK#:1 PC#:127	(0 - 296)
	0000 bbbb		01A - 99C
	0000 cccc		(0 - 296)
02 7D	0000 000a	BANK#:1 PC#:128	01A - 99C
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
03 00	0000 000a	BANK#:2 PC#:001	(0 - 296)
	0000 bbbb		01A - 99C

03 03	0000 cccc 0000 000a	BANK#:2 PC#:002	(0 - 296) 01A - 99C
03 06	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:003	(0 - 296) 01A - 99C
03 09	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:004	(0 - 296) 01A - 99C
03 0C	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:005	(0 - 296) 01A - 99C
03 0F	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:006	(0 - 296) 01A - 99C
03 12	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:007	(0 - 296) 01A - 99C
03 15	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:008	(0 - 296) 01A - 99C
03 18	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:009	(0 - 296) 01A - 99C
03 1B	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:010	(0 - 296) 01A - 99C
03 1E	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:011	(0 - 296) 01A - 99C
03 21	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:012	(0 - 296) 01A - 99C
03 24	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:013	(0 - 296) 01A - 99C
03 27	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:014	(0 - 296) 01A - 99C
03 2A	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:015	(0 - 296) 01A - 99C
03 2D	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:016	(0 - 296) 01A - 99C
03 30	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:017	(0 - 296) 01A - 99C
03 33	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:018	(0 - 296) 01A - 99C
03 36	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:019	(0 - 296) 01A - 99C
03 39	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:020	(0 - 296) 01A - 99C
03 3C	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:021	(0 - 296) 01A - 99C
03 3F	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:022	(0 - 296) 01A - 99C
03 42	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:023	(0 - 296) 01A - 99C
03 45	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:024	(0 - 296) 01A - 99C
03 48	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:025	(0 - 296) 01A - 99C
03 4B	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:026	(0 - 296) 01A - 99C
03 4E	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:027	(0 - 296) 01A - 99C
03 51	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:028	(0 - 296)

	0000 bbbb		01A - 99C
	0000 cccc		(0 - 296)
03 54	0000 000a	BANK#:2 PC#:029	01A - 99C
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
03 57	0000 000a	BANK#:2 PC#:030	(0 - 296)
	0000 bbbb		01A - 99C
	0000 cccc		(0 - 296)
03 5A	0000 000a	BANK#:2 PC#:031	01A - 99C
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
03 5D	0000 000a	BANK#:2 PC#:032	(0 - 296)
	0000 bbbb		01A - 99C
	0000 cccc		(0 - 296)
03 60	0000 000a	BANK#:2 PC#:033	01A - 99C
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
03 63	0000 000a	BANK#:2 PC#:034	(0 - 296)
	0000 bbbb		01A - 99C
	0000 cccc		(0 - 296)
03 66	0000 000a	BANK#:2 PC#:035	01A - 99C
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
03 69	0000 000a	BANK#:2 PC#:036	(0 - 296)
	0000 bbbb		01A - 99C
	0000 cccc		(0 - 296)
03 6C	0000 000a	BANK#:2 PC#:037	01A - 99C
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
03 6F	0000 000a	BANK#:2 PC#:038	(0 - 296)
	0000 bbbb		01A - 99C
	0000 cccc		(0 - 296)
03 72	0000 000a	BANK#:2 PC#:039	01A - 99C
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
03 75	0000 000a	BANK#:2 PC#:040	(0 - 296)
	0000 bbbb		01A - 99C
	0000 cccc		(0 - 296)
03 78	0000 000a	BANK#:2 PC#:041	01A - 99C
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
03 7B	0000 000a	BANK#:2 PC#:042	(0 - 296)
	0000 bbbb		01A - 99C
	0000 cccc		(0 - 296)
03 7E	0000 000a	BANK#:2 PC#:043	01A - 99C
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
04 01	0000 000a	BANK#:2 PC#:044	(0 - 296)
	0000 bbbb		01A - 99C
	0000 cccc		(0 - 296)
04 04	0000 000a	BANK#:2 PC#:045	01A - 99C
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
04 07	0000 000a	BANK#:2 PC#:046	(0 - 296)
	0000 bbbb		01A - 99C
	0000 cccc		(0 - 296)
04 0A	0000 000a	BANK#:2 PC#:047	01A - 99C
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
04 0D	0000 000a	BANK#:2 PC#:048	(0 - 296)
	0000 bbbb		01A - 99C
	0000 cccc		(0 - 296)
04 10	0000 000a	BANK#:2 PC#:049	01A - 99C
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
04 13	0000 000a	BANK#:2 PC#:050	(0 - 296)
	0000 bbbb		01A - 99C
	0000 cccc		(0 - 296)
04 16	0000 000a	BANK#:2 PC#:051	01A - 99C
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
04 19	0000 000a	BANK#:2 PC#:052	(0 - 296)
	0000 bbbb		01A - 99C
	0000 cccc		(0 - 296)
04 1C	0000 000a	BANK#:2 PC#:053	01A - 99C
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
04 1F	0000 000a	BANK#:2 PC#:054	(0 - 296)
	0000 bbbb		01A - 99C

04 22	0000 cccc 0000 000a	BANK#:2 PC#:055	(0 - 296) 01A - 99C
04 25	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:056	(0 - 296) 01A - 99C
04 28	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:057	(0 - 296) 01A - 99C
04 2B	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:058	(0 - 296) 01A - 99C
04 2E	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:059	(0 - 296) 01A - 99C
04 31	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:060	(0 - 296) 01A - 99C
04 34	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:061	(0 - 296) 01A - 99C
04 37	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:062	(0 - 296) 01A - 99C
04 3A	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:063	(0 - 296) 01A - 99C
04 3D	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:064	(0 - 296) 01A - 99C
04 40	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:065	(0 - 296) 01A - 99C
04 43	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:066	(0 - 296) 01A - 99C
04 46	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:067	(0 - 296) 01A - 99C
04 49	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:068	(0 - 296) 01A - 99C
04 4C	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:069	(0 - 296) 01A - 99C
04 4F	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:070	(0 - 296) 01A - 99C
04 52	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:071	(0 - 296) 01A - 99C
04 55	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:072	(0 - 296) 01A - 99C
04 58	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:073	(0 - 296) 01A - 99C
04 5B	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:074	(0 - 296) 01A - 99C
04 5E	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:075	(0 - 296) 01A - 99C
04 61	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:076	(0 - 296) 01A - 99C
04 64	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:077	(0 - 296) 01A - 99C
04 67	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:078	(0 - 296) 01A - 99C
04 6A	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:079	(0 - 296) 01A - 99C
04 6D	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:080	(0 - 296) 01A - 99C
04 70	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:081	(0 - 296)

	0000 bbbb		01A - 99C
	0000 cccc		(0 - 296)
04 73	0000 000a	BANK#:2 PC#:082	01A - 99C
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
04 76	0000 000a	BANK#:2 PC#:083	
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
04 79	0000 000a	BANK#:2 PC#:084	
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
04 7C	0000 000a	BANK#:2 PC#:085	
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
04 7F	0000 000a	BANK#:2 PC#:086	
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
05 02	0000 000a	BANK#:2 PC#:087	
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
05 05	0000 000a	BANK#:2 PC#:088	
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
05 08	0000 000a	BANK#:2 PC#:089	
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
05 0B	0000 000a	BANK#:2 PC#:090	
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
05 0E	0000 000a	BANK#:2 PC#:091	
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
05 11	0000 000a	BANK#:2 PC#:092	
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
05 14	0000 000a	BANK#:2 PC#:093	
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
05 17	0000 000a	BANK#:2 PC#:094	
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
05 1A	0000 000a	BANK#:2 PC#:095	
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
05 1D	0000 000a	BANK#:2 PC#:096	
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
05 20	0000 000a	BANK#:2 PC#:097	
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
05 23	0000 000a	BANK#:2 PC#:098	
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
05 26	0000 000a	BANK#:2 PC#:099	
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
05 29	0000 000a	BANK#:2 PC#:100	
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
05 2C	0000 000a	BANK#:2 PC#:101	
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
05 2F	0000 000a	BANK#:2 PC#:102	
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
05 32	0000 000a	BANK#:2 PC#:103	
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
05 35	0000 000a	BANK#:2 PC#:104	
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
05 38	0000 000a	BANK#:2 PC#:105	
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
05 3B	0000 000a	BANK#:2 PC#:106	
	0000 bbbb		(0 - 296)
	0000 cccc		01A - 99C
05 3E	0000 000a	BANK#:2 PC#:107	
	0000 bbbb		(0 - 296)
			01A - 99C

05 41	0000 cccc 0000 000a	BANK#:2 PC#:108	(0 - 296) 01A - 99C
05 44	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:109	(0 - 296) 01A - 99C
05 47	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:110	(0 - 296) 01A - 99C
05 4A	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:111	(0 - 296) 01A - 99C
05 4D	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:112	(0 - 296) 01A - 99C
05 50	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:113	(0 - 296) 01A - 99C
05 53	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:114	(0 - 296) 01A - 99C
05 56	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:115	(0 - 296) 01A - 99C
05 59	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:116	(0 - 296) 01A - 99C
05 5C	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:117	(0 - 296) 01A - 99C
05 5F	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:118	(0 - 296) 01A - 99C
05 62	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:119	(0 - 296) 01A - 99C
05 65	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:120	(0 - 296) 01A - 99C
05 68	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:121	(0 - 296) 01A - 99C
05 6B	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:122	(0 - 296) 01A - 99C
05 6E	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:123	(0 - 296) 01A - 99C
05 71	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:124	(0 - 296) 01A - 99C
05 74	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:125	(0 - 296) 01A - 99C
05 77	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:126	(0 - 296) 01A - 99C
05 7A	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:127	(0 - 296) 01A - 99C
05 7D	0000 bbbb 0000 cccc 0000 000a	BANK#:2 PC#:128	(0 - 296) 01A - 99C
06 00	0000 bbbb 0000 cccc 0000 000a	BANK#:3 PC#:001	(0 - 296) 01A - 99C
06 03	0000 bbbb 0000 cccc 0000 000a	BANK#:3 PC#:002	(0 - 296) 01A - 99C
06 06	0000 bbbb 0000 cccc 0000 000a	BANK#:3 PC#:003	(0 - 296) 01A - 99C
06 09	0000 bbbb 0000 cccc 0000 000a	BANK#:3 PC#:004	(0 - 296) 01A - 99C
06 0C	0000 bbbb 0000 cccc 0000 000a	BANK#:3 PC#:005	(0 - 296) 01A - 99C
06 0F	0000 bbbb 0000 cccc 0000 000a	BANK#:3 PC#:006	(0 - 296)

	0000 bbbb		01A - 99C
	0000 cccc		(0 - 296)
06 12	0000 000a	BANK#:3 PC#:007	01A - 99C
	0000 bbbb		(0 - 296)
06 15	0000 cccc	BANK#:3 PC#:008	01A - 99C
	0000 000a		(0 - 296)
06 18	0000 cccc	BANK#:3 PC#:009	01A - 99C
	0000 bbbb		(0 - 296)
06 1B	0000 cccc	BANK#:3 PC#:010	01A - 99C
	0000 000a		(0 - 296)
06 1E	0000 cccc	BANK#:3 PC#:011	01A - 99C
	0000 bbbb		(0 - 296)
06 21	0000 cccc	BANK#:3 PC#:012	01A - 99C
	0000 000a		(0 - 296)
06 24	0000 cccc	BANK#:3 PC#:013	01A - 99C
	0000 bbbb		(0 - 296)
06 27	0000 cccc	BANK#:3 PC#:014	01A - 99C
	0000 000a		(0 - 296)
06 2A	0000 cccc	BANK#:3 PC#:015	01A - 99C
	0000 bbbb		(0 - 296)
06 2D	0000 cccc	BANK#:3 PC#:016	01A - 99C
	0000 000a		(0 - 296)
06 30	0000 cccc	BANK#:3 PC#:017	01A - 99C
	0000 bbbb		(0 - 296)
06 33	0000 cccc	BANK#:3 PC#:018	01A - 99C
	0000 000a		(0 - 296)
06 36	0000 cccc	BANK#:3 PC#:019	01A - 99C
	0000 bbbb		(0 - 296)
06 39	0000 cccc	BANK#:3 PC#:020	01A - 99C
	0000 000a		(0 - 296)
06 3C	0000 cccc	BANK#:3 PC#:021	01A - 99C
	0000 bbbb		(0 - 296)
06 3F	0000 cccc	BANK#:3 PC#:022	01A - 99C
	0000 000a		(0 - 296)
06 42	0000 cccc	BANK#:3 PC#:023	01A - 99C
	0000 bbbb		(0 - 296)
06 45	0000 cccc	BANK#:3 PC#:024	01A - 99C
	0000 000a		(0 - 296)
06 48	0000 cccc	BANK#:3 PC#:025	01A - 99C
	0000 bbbb		(0 - 296)
06 4B	0000 cccc	BANK#:3 PC#:026	01A - 99C
	0000 000a		(0 - 296)
06 4E	0000 cccc	BANK#:3 PC#:027	01A - 99C
	0000 bbbb		(0 - 296)
06 51	0000 cccc	BANK#:3 PC#:028	01A - 99C
	0000 000a		(0 - 296)
06 54	0000 cccc	BANK#:3 PC#:029	01A - 99C
	0000 bbbb		(0 - 296)
06 57	0000 cccc	BANK#:3 PC#:030	01A - 99C
	0000 000a		(0 - 296)
06 5A	0000 cccc	BANK#:3 PC#:031	01A - 99C
	0000 bbbb		(0 - 296)
06 5D	0000 cccc	BANK#:3 PC#:032	01A - 99C
	0000 000a		(0 - 296)
	0000 bbbb		01A - 99C

06 60	0000 cccc 0000 000a	BANK#:3 PC#:033	(0 - 296) 01A - 99C
06 63	0000 bbbb 0000 cccc 0000 000a	BANK#:3 PC#:034	(0 - 296) 01A - 99C
06 66	0000 bbbb 0000 cccc 0000 000a	BANK#:3 PC#:035	(0 - 296) 01A - 99C
06 69	0000 bbbb 0000 cccc 0000 000a	BANK#:3 PC#:036	(0 - 296) 01A - 99C
06 6C	0000 bbbb 0000 cccc 0000 000a	BANK#:3 PC#:037	(0 - 296) 01A - 99C
06 6F	0000 bbbb 0000 cccc 0000 000a	BANK#:3 PC#:038	(0 - 296) 01A - 99C
06 72	0000 bbbb 0000 cccc 0000 000a	BANK#:3 PC#:039	(0 - 296) 01A - 99C
06 75	0000 bbbb 0000 cccc 0000 000a	BANK#:3 PC#:040	(0 - 296) 01A - 99C
06 78	0000 bbbb 0000 cccc 0000 000a	BANK#:3 PC#:041	(0 - 296) 01A - 99C
06 7B	0000 bbbb 0000 cccc 0000 000a	BANK#:3 PC#:042	(0 - 296) 01A - 99C
06 7E	0000 bbbb 0000 cccc 0000 000a	BANK#:3 PC#:043	(0 - 296) 01A - 99C
07 01	0000 bbbb 0000 cccc 0000 000a	BANK#:3 PC#:044	(0 - 296) 01A - 99C
07 04	0000 bbbb 0000 cccc 0000 000a	BANK#:3 PC#:045	(0 - 296) 01A - 99C
07 07	0000 bbbb 0000 cccc 0000 000a	BANK#:3 PC#:046	(0 - 296) 01A - 99C
07 0A	0000 bbbb 0000 cccc 0000 000a	BANK#:3 PC#:047	(0 - 296) 01A - 99C
07 0D	0000 bbbb 0000 cccc 0000 000a	BANK#:3 PC#:048	(0 - 296) 01A - 99C
07 10	0000 bbbb 0000 cccc 0000 000a	BANK#:3 PC#:049	(0 - 296) 01A - 99C
07 13	0000 bbbb 0000 cccc 0000 000a	BANK#:3 PC#:050	(0 - 296) 01A - 99C
07 16	0000 bbbb 0000 cccc 0000 000a	BANK#:3 PC#:051	(0 - 296) 01A - 99C
07 19	0000 bbbb 0000 cccc 0000 000a	BANK#:3 PC#:052	(0 - 296) 01A - 99C
07 1C	0000 bbbb 0000 cccc 0000 000a	BANK#:3 PC#:053	(0 - 296) 01A - 99C
07 1F	0000 bbbb 0000 cccc 0000 000a	BANK#:3 PC#:054	(0 - 296) 01A - 99C
07 22	0000 bbbb 0000 cccc 0000 000a	BANK#:3 PC#:055	(0 - 296) 01A - 99C
07 25	0000 bbbb 0000 cccc 0000 000a	BANK#:3 PC#:056	(0 - 296) 01A - 99C
07 28	0000 bbbb 0000 cccc 0000 000a	BANK#:3 PC#:057	(0 - 296) 01A - 99C
07 2B	0000 bbbb 0000 cccc 0000 000a	BANK#:3 PC#:058	(0 - 296) 01A - 99C
07 2E	0000 bbbb 0000 cccc 0000 000a	BANK#:3 PC#:059	(0 - 296)

	0000 bbbb		01A - 99C
	0000 cccc		(0 - 296)
07 31	0000 000a	BANK#:3 PC#:060	01A - 99C
	0000 bbbb		(0 - 296)
07 34	0000 cccc	BANK#:3 PC#:061	01A - 99C
	0000 bbbb		(0 - 296)
07 37	0000 cccc	BANK#:3 PC#:062	01A - 99C
	0000 bbbb		(0 - 296)
07 3A	0000 cccc	BANK#:3 PC#:063	01A - 99C
	0000 bbbb		(0 - 296)
07 3D	0000 cccc	BANK#:3 PC#:064	01A - 99C
	0000 bbbb		(0 - 296)
07 40	0000 cccc	BANK#:3 PC#:065	01A - 99C
	0000 bbbb		(0 - 296)
07 43	0000 cccc	BANK#:3 PC#:066	01A - 99C
	0000 bbbb		(0 - 296)
07 46	0000 cccc	BANK#:3 PC#:067	01A - 99C
	0000 bbbb		(0 - 296)
07 49	0000 cccc	BANK#:3 PC#:068	01A - 99C
	0000 bbbb		(0 - 296)
07 4C	0000 cccc	BANK#:3 PC#:069	01A - 99C
	0000 bbbb		(0 - 296)
07 4F	0000 cccc	BANK#:3 PC#:070	01A - 99C
	0000 bbbb		(0 - 296)
07 52	0000 cccc	BANK#:3 PC#:071	01A - 99C
	0000 bbbb		(0 - 296)
07 55	0000 cccc	BANK#:3 PC#:072	01A - 99C
	0000 bbbb		(0 - 296)
07 58	0000 cccc	BANK#:3 PC#:073	01A - 99C
	0000 bbbb		(0 - 296)
07 5B	0000 cccc	BANK#:3 PC#:074	01A - 99C
	0000 bbbb		(0 - 296)
07 5E	0000 cccc	BANK#:3 PC#:075	01A - 99C
	0000 bbbb		(0 - 296)
07 61	0000 cccc	BANK#:3 PC#:076	01A - 99C
	0000 bbbb		(0 - 296)
07 64	0000 cccc	BANK#:3 PC#:077	01A - 99C
	0000 bbbb		(0 - 296)
07 67	0000 cccc	BANK#:3 PC#:078	01A - 99C
	0000 bbbb		(0 - 296)
07 6A	0000 cccc	BANK#:3 PC#:079	01A - 99C
	0000 bbbb		(0 - 296)
07 6D	0000 cccc	BANK#:3 PC#:080	01A - 99C
	0000 bbbb		(0 - 296)
07 70	0000 cccc	BANK#:3 PC#:081	01A - 99C
	0000 bbbb		(0 - 296)
07 73	0000 cccc	BANK#:3 PC#:082	01A - 99C
	0000 bbbb		(0 - 296)
07 76	0000 cccc	BANK#:3 PC#:083	01A - 99C
	0000 bbbb		(0 - 296)
07 79	0000 cccc	BANK#:3 PC#:084	01A - 99C
	0000 bbbb		(0 - 296)
07 7C	0000 cccc	BANK#:3 PC#:085	01A - 99C
	0000 bbbb		

07	7F	0000 cccc	BANK#:3 PC#:086	(0 - 296) 01A - 99C
		0000 000a		
08	02	0000 bbbb	BANK#:3 PC#:087	(0 - 296) 01A - 99C
		0000 cccc		
08	05	0000 bbbb	BANK#:3 PC#:088	(0 - 296) 01A - 99C
		0000 cccc		
08	08	0000 bbbb	BANK#:3 PC#:089	(0 - 296) 01A - 99C
		0000 cccc		
08	0B	0000 bbbb	BANK#:3 PC#:090	(0 - 296) 01A - 99C
		0000 cccc		
08	0E	0000 bbbb	BANK#:3 PC#:091	(0 - 296) 01A - 99C
		0000 cccc		
08	11	0000 bbbb	BANK#:3 PC#:092	(0 - 296) 01A - 99C
		0000 cccc		
08	14	0000 bbbb	BANK#:3 PC#:093	(0 - 296) 01A - 99C
		0000 cccc		
08	17	0000 bbbb	BANK#:3 PC#:094	(0 - 296) 01A - 99C
		0000 cccc		
08	1A	0000 bbbb	BANK#:3 PC#:095	(0 - 296) 01A - 99C
		0000 cccc		
08	1D	0000 bbbb	BANK#:3 PC#:096	(0 - 296) 01A - 99C
		0000 cccc		
08	20	0000 bbbb	BANK#:3 PC#:097	(0 - 296) 01A - 99C
		0000 cccc		
08	23	0000 bbbb	BANK#:3 PC#:098	(0 - 296) 01A - 99C
		0000 cccc		
08	26	0000 bbbb	BANK#:3 PC#:099	(0 - 296) 01A - 99C
		0000 cccc		
08	29	0000 bbbb	BANK#:3 PC#:100	(0 - 296) 01A - 99C
		0000 cccc		
08	2C	0000 bbbb	BANK#:3 PC#:101	(0 - 296) 01A - 99C
		0000 cccc		
08	2F	0000 bbbb	BANK#:3 PC#:102	(0 - 296) 01A - 99C
		0000 cccc		
08	32	0000 bbbb	BANK#:3 PC#:103	(0 - 296) 01A - 99C
		0000 cccc		
08	35	0000 bbbb	BANK#:3 PC#:104	(0 - 296) 01A - 99C
		0000 cccc		
08	38	0000 bbbb	BANK#:3 PC#:105	(0 - 296) 01A - 99C
		0000 cccc		
08	3B	0000 bbbb	BANK#:3 PC#:106	(0 - 296) 01A - 99C
		0000 cccc		
08	3E	0000 bbbb	BANK#:3 PC#:107	(0 - 296) 01A - 99C
		0000 cccc		
08	41	0000 bbbb	BANK#:3 PC#:108	(0 - 296) 01A - 99C
		0000 cccc		
08	44	0000 bbbb	BANK#:3 PC#:109	(0 - 296) 01A - 99C
		0000 cccc		
08	47	0000 bbbb	BANK#:3 PC#:110	(0 - 296) 01A - 99C
		0000 cccc		
08	4A	0000 bbbb	BANK#:3 PC#:111	(0 - 296) 01A - 99C
		0000 cccc		
08	4D	0000 bbbb	BANK#:3 PC#:112	(0 - 296)
		0000 cccc		

		0000 bbbb		01A - 99C
		0000 cccc		
08 50		0000 000a	BANK#:3 PC#:113	(0 - 296)
				01A - 99C
		0000 bbbb		
		0000 cccc		
08 53		0000 000a	BANK#:3 PC#:114	(0 - 296)
				01A - 99C
		0000 bbbb		
		0000 cccc		
08 56		0000 000a	BANK#:3 PC#:115	(0 - 296)
				01A - 99C
		0000 bbbb		
		0000 cccc		
08 59		0000 000a	BANK#:3 PC#:116	(0 - 296)
				01A - 99C
		0000 bbbb		
		0000 cccc		
08 5C		0000 000a	BANK#:3 PC#:117	(0 - 296)
				01A - 99C
		0000 bbbb		
		0000 cccc		
08 5F		0000 000a	BANK#:3 PC#:118	(0 - 296)
				01A - 99C
		0000 bbbb		
		0000 cccc		
08 62		0000 000a	BANK#:3 PC#:119	(0 - 296)
				01A - 99C
		0000 bbbb		
		0000 cccc		
08 65		0000 000a	BANK#:3 PC#:120	(0 - 296)
				01A - 99C
		0000 bbbb		
		0000 cccc		
08 68		0000 000a	BANK#:3 PC#:121	(0 - 296)
				01A - 99C
		0000 bbbb		
		0000 cccc		
08 6B		0000 000a	BANK#:3 PC#:122	(0 - 296)
				01A - 99C
		0000 bbbb		
		0000 cccc		
08 6E		0000 000a	BANK#:3 PC#:123	(0 - 296)
				01A - 99C
		0000 bbbb		
		0000 cccc		
08 71		0000 000a	BANK#:3 PC#:124	(0 - 296)
				01A - 99C
		0000 bbbb		
		0000 cccc		
08 74		0000 000a	BANK#:3 PC#:125	(0 - 296)
				01A - 99C
		0000 bbbb		
		0000 cccc		
08 77		0000 000a	BANK#:3 PC#:126	(0 - 296)
				01A - 99C
		0000 bbbb		
		0000 cccc		
08 7A		0000 000a	BANK#:3 PC#:127	(0 - 296)
				01A - 99C
		0000 bbbb		
		0000 cccc		
08 7D		0000 000a	BANK#:3 PC#:128	(0 - 296)
				01A - 99C
		0000 bbbb		
		0000 cccc		

*2-5 BANK Parameters Offset Address
※ Foot sw mode = SIMULのときのみ有効

Offset Address	Description	
00 00	0000 000d	BANK Connection
		(0 - 1)
00 01	0000 000d	BANK Output mode
		SERIES, PARALLEL
		(0 - 1)
		MIX, A/B

*2-6 PATCH Parameters Offset Address

Offset Address	Description	
00 00	0ddd dddd	Patch Name1
		(32 - 126)
00 01	0ddd dddd	Patch Name2
		32 - 126 [ASC11]
00 02	0ddd dddd	Patch Name3
		(32 - 126)
00 03	0ddd dddd	Patch Name4
		32 - 126 [ASC11]
00 04	0ddd dddd	Patch Name5
		(32 - 126)
00 05	0ddd dddd	Patch Name6
		32 - 126 [ASC11]
00 06	0ddd dddd	Patch Name7
		(32 - 126)
00 07	0ddd dddd	Patch Name8
		32 - 126 [ASC11]
00 08	0ddd dddd	Patch Name9
		(32 - 126)
00 09	0ddd dddd	Patch Name10
		32 - 126 [ASC11]
		(32 - 126)
		32 - 126 [ASC11]

00 0A	0ddd dddd	Patch Name1	(32 - 126)
00 0B	0ddd dddd	Patch Name2	32 - 126 [ASCII]
00 0C	0ddd dddd	Patch Name3	(32 - 126)
00 0D	0ddd dddd	Patch Name4	32 - 126 [ASCII]
00 0E	0ddd dddd	Patch Name5	(32 - 126)
00 0F	0ddd dddd	Patch Name6	32 - 126 [ASCII]
00 10	0000 dddd	Reverb : MODE	(32 - 126)
			(0 - 11)
00 11	0ddd dddd	Reverb : Time	ROOM, HALL, PLATE, SPRING, SHIMMER, FAST DECAY, EARLY REF, NON-LINEAR, SFX, DUAL, SRV, SPACE ECHO
			(0 - 99)
00 12	0000 aaaa	Reverb : Pre-Delay	0.1s - 10.0s
			(0 - 200)
	0000 bbbb		0ms - 200ms
00 14	0ddd dddd	Reverb : Effect Level	(0 - 100)
			0 - 100
00 15	0ddd dddd	Reverb : Tone Low	(0 - 100)
			-50 - +50
00 16	0ddd dddd	Reverb : Tone High	(0 - 100)
			-50 - +50
00 17	000d dddd	Reverb : Low Cut	(0 - 17)
			FLAT, 20.0Hz, 25.0Hz, 31.5Hz, 40.0Hz, 50.0Hz, 63.0Hz, 80.0Hz, 100Hz, 125Hz, 160Hz, 200Hz, 250Hz, 315Hz, 400Hz, 500Hz, 630Hz, 800Hz
00 18	0000 dddd	Reverb : High Cut	(0 - 15)
			630Hz, 800Hz, 1.00kHz, 1.25kHz, 1.60kHz, 2.00kHz, 2.50kHz, 3.15kHz, 4.00kHz, 5.00kHz, 6.30kHz, 8.00kHz, 10.0kHz, 12.5kHz, 16.0kHz, FLAT
00 19	0ddd dddd	Reverb : Low Damp	(0 - 100)
			-50 - +50
00 1A	0ddd dddd	Reverb : High Damp	(0 - 100)
			-50 - +50
00 1B	0000 dddd	Reverb : Density	(0 - 9)
			1 - 10
00 1C	0ddd dddd	Reverb : Mod Depth	(0 - 100)
			0 - 100
00 1D	0ddd dddd	Reverb : Mod Rate	(0 - 100)
			0 - 100
00 1E	0000 00dd	Reverb : Delay Connection	(0 - 2)
			OFF, SERIES, PARALLEL
00 1F	0000 0aaa	Delay : Time	(0 - 1999)
			1ms - 2000ms
	0000 bbbb		
	0000 cccc		
00 22	0000 00aa	Delay : BPM	(1 - 2400000)
			J=0.1 - J=240000.0
	0000 bbbb		
	0000 cccc		
	0000 dddd		
	0000 eeee		
	0000 ffff		
00 28	0000 dddd	Delay : Note	(0 - 12)
			16分音符, 3連8分音符, 付点16分音符, 8分音符, 3連4分音符, 付点8分音符, 4分音符, 3連2分音符, 付点4分音符, 2分音符, 3連全音符, 付点2分音符, 全音符
00 29	0ddd dddd	Delay : Feedback	(0 - 100)
			0 - 100
00 2A	0ddd dddd	Delay : Level	(0 - 120)
			0 - 120
00 2B	0ddd dddd	Delay : Tone Low	(0 - 100)
			-50 - +50
00 2C	0ddd dddd	Delay : Tone High	(0 - 100)
			-50 - +50
00 2D	0ddd dddd	Delay : Mod Depth	(0 - 100)
			0 - 100
00 2E	0ddd dddd	Delay : Mod Rate	(0 - 100)
			0 - 100
00 2F	0ddd dddd	Delay : Input Level	(0 - 100)
			0 - 100
00 30	0000 000d	Delay : Tempo Hold Sw	(0 - 1)
			OFF, ON
00 31	0000 000d	Carryover Sw	(0 - 1)
			OFF, ON
00 32	0ddd dddd	Direct Level	(0 - 100)
			0 - 100
00 33	0ddd dddd	DUCK Sens	(0 - 100)
			0 - 100
00 34	0ddd dddd	DUCK Pre Depth	(0 - 100)
			0 - 100
00 35	0ddd dddd	DUCK Post Depth	(0 - 100)
			0 - 100
00 36	0000 dddd	Output Gain	(0 - 12)
			-6dB - +6dB
00 37	0ddd dddd	Input Level	(0 - 100)
			0 - 100
00 38	0000 000d	FADE IN/OUT status	(0 - 1)
			0 - 1
00 39	0000 00dd	ROOM : Type	(0 - 3)
			AMBIENCE, SMALL, MEDIUM, LARGE
00 3A	0000 00dd	HALL : Type	(0 - 2)
			SMALL, MEDIUM, LARGE
00 3B	0000 00dd	SPRING : Spring number	(0 - 2)
			1 - 3
00 3C	00dd dddd	SHIMMER : Shift1 Pitch	(0 - 48)
			-24 - +24
00 3D	0ddd dddd	SHIMMER : Shift1 Pitch fine	(0 - 100)
			-50 - +50
00 3E	0ddd dddd	SHIMMER : Shift1 Level	(0 - 100)
			0 - 100
00 3F	0ddd dddd	SHIMMER : Shift1 Release	(0 - 100)
			0 - 100
00 40	00dd dddd	SHIMMER : Shift2 Pitch	(0 - 48)
			-24 - +24

00 41	0ddd dddd	SHIMMER : Shift2 Pitch fine	(0 - 100) -50 - +50
00 42	0ddd dddd	SHIMMER : Shift2 Level	(0 - 100) 0 - 100
00 43	0ddd dddd	SHIMMER : Shift2 Release	(0 - 100) 0 - 100
00 44	0000 dddd	FAST DECAY : Reverb Decay	(0 - 9) 1 - 10
00 45	0000 dddd	EARLY REFLECTION : Time	(0 - 9) 0.1s - 1.0s
00 46	0000 00dd	EARLY REFLECTION : Type	(0 - 3) 1 - 4
00 47	0000 dddd	EARLY REFLECTION : Envelope	(0 - 9) 1 - 10
00 48	0000 00dd	NON-LINEAR : Type	(0 - 2) GATE, REVERSE, NON-LINEAR
00 49	0000 dddd	NON-LINEAR REVERSE/NON-LINEAR : Time	(0 - 9) *1 0.1s - 1.0s
00 4A	0ddd dddd	NON-LINEAR GATE : Threshold	(0 - 100) 0 - 100
00 4B	0000 dddd	NON-LINEAR GATE : Hold Time	(0 - 9) 0.1s - 1.0s
00 4C	0000 dddd	NON-LINEAR REVERSE/NON-LINEAR : Gate Time	(0 - 9) *1 0.1s - 1.0s
00 4D	0000 00dd	SFX Type	(0 - 2) LO-FI, SLOWVERB, STORM
00 4E	0000 dddd	SFX LO-FI : LO-FI	(0 - 9) 1 - 10
00 4F	0000 dddd	SFX LO-FI : Distortion	(0 - 10) 0 - 10
00 50	0ddd dddd	SFX LO-FI : LO-FI Level	(0 - 100) 0 - 100
00 51	0ddd dddd	SFX LO-FI : Direct Level	(0 - 100) 0 - 100
00 52	0ddd dddd	SFX SLOWVERB : Rise time	(0 - 100) 0 - 100
00 53	0ddd dddd	SFX SLOWVERB : Sens	(0 - 100) 0 - 100
00 54	0ddd dddd	SFX SLOWVERB : Lower harm Level	(0 - 100) 0 - 100
00 55	0ddd dddd	SFX SLOWVERB : Upper harm Level	(0 - 100) 0 - 100
00 56	0ddd dddd	SFX SLOWVERB : Unison mix Level	(0 - 100) 0 - 100
00 57	0ddd dddd	SFX SLOWVERB : Detune	(0 - 100) 0 - 100
00 58	0ddd dddd	SFX STORM : Color	(0 - 100) 0 - 100
00 59	0ddd dddd	SFX STORM : Depth	(0 - 100) 0 - 100
00 5A	0ddd dddd	SFX STORM : Speed	(0 - 100) 0 - 100
00 5B	0000 00dd	DUAL : 1 Type	(0 - 3) ROOM, HALL, PLATE, SPRING
00 5C	0ddd dddd	DUAL : 1 Time	(0 - 99) 0.1s - 10.0s
00 5D	0000 aaaa	DUAL : 1 Pre-Delay	(0 - 200) 0ms - 200ms
	0000 bbbb		
00 5F	0000 dddd	DUAL : 1 Density	(0 - 9) 1 - 10
00 60	0ddd dddd	DUAL : 1 Tone Low	(0 - 100) -50 - +50
00 61	0ddd dddd	DUAL : 1 Tone High	(0 - 100) -50 - +50
00 62	000d dddd	DUAL : 1 Low Cut	(0 - 17) FLAT, 20.0Hz, 25.0Hz, 31.5Hz, 40.0Hz, 50.0Hz, 63.0Hz, 80.0Hz, 100Hz, 125Hz, 160Hz, 200Hz, 250Hz, 315Hz, 400Hz, 500Hz, 630Hz, 800Hz
00 63	0000 dddd	DUAL : 1 High Cut	(0 - 15) 630Hz, 800Hz, 1.00kHz, 1.25kHz, 1.60kHz, 2.00kHz, 2.50kHz, 3.15kHz, 4.00kHz, 5.00kHz, 6.30kHz, 8.00kHz, 10.0kHz, 12.5kHz, 16.0kHz, FLAT
00 64	0ddd dddd	DUAL : 1 Effect Level	(0 - 100) 0 - 100
00 65	0000 00dd	DUAL : 2 Type	(0 - 3) ROOM, HALL, PLATE, SPRING
00 66	0ddd dddd	DUAL : 2 Time	(0 - 99) 0.1s - 10.0s
00 67	0000 aaaa	DUAL : 2 Pre-Delay	(0 - 200) 0ms - 200ms
	0000 bbbb		
00 69	0000 dddd	DUAL : 2 Density	(0 - 9) 1 - 10
00 6A	0ddd dddd	DUAL : 2 Tone Low	(0 - 100) -50 - +50
00 6B	0ddd dddd	DUAL : 2 Tone High	(0 - 100) -50 - +50
00 6C	000d dddd	DUAL : 2 Low Cut	(0 - 17) FLAT, 20.0Hz, 25.0Hz, 31.5Hz, 40.0Hz, 50.0Hz, 63.0Hz, 80.0Hz, 100Hz, 125Hz, 160Hz, 200Hz, 250Hz, 315Hz, 400Hz, 500Hz, 630Hz, 800Hz
00 6D	0000 dddd	DUAL : 2 High Cut	(0 - 15) 630Hz, 800Hz, 1.00kHz, 1.25kHz, 1.60kHz, 2.00kHz, 2.50kHz, 3.15kHz, 4.00kHz, 5.00kHz, 6.30kHz, 8.00kHz, 10.0kHz, 12.5kHz, 16.0kHz, FLAT
00 6E	0ddd dddd	DUAL : 2 Effect Level	(0 - 100) 0 - 100
00 6F	000d dddd	DUAL : Crossover	(0 - 17) PARALLEL, 100Hz, 125Hz, 160Hz, 200Hz, 250Hz, 315Hz, 400Hz, 500Hz, 630Hz, 800Hz, 1.00kHz, 1.25kHz, 1.60kHz, 2.00kHz, 2.5kHz, 3.15kHz, 4.00kHz
00 70	0000 dddd	SRV : Selection	(0 - 14) R0.3, R1.0, R7.0, R15, R22, R26, R32, R37, H15, H22, H26, H32, H37, P-B, P-A
00 71	0ddd dddd	SRV : HF Damp	(5 - 100) 5 - 100
00 72	0000 dddd	SRV : Density	(0 - 9) 0 - 9
00 73	0000 dddd	SRV : Attack Gain	(0 - 9) 0 - 9
00 74	0000 dddd	SRV : Attack Time	(0 - 9) 0 - 9

00 75	0000 dddd	SRV : Early reflection Density	0 - 9 (0 - 9)
00 76	0ddd dddd	SRV : Early reflection Level	0 - 9 (0 - 99)
00 77	00dd dddd	SRV : Low Gain	0 - 99 (0 - 36)
00 78	0ddd dddd	SRV : Low Freq	-24dB - +12dB (4 - 100)
00 79	00dd dddd	SRV : Mid Gain	4 - 100 (0 - 36)
00 7A	0000 00aa	SRV : Mid Freq	-24dB - +12dB (25 - 999)
	0000 bbbb		25 - 999
	0000 cccc		
00 7D	0ddd dddd	SRV : Mid Q	(2 - 90)
00 7E	00dd dddd	SRV : High Gain	2 - 90 (0 - 36)
00 7F	0000 00aa	SRV : High Freq	-24dB - +12dB (80 - 999)
	0000 bbbb		80 - 999
	0000 cccc		
01 02	0ddd dddd	SRV : Hi Q	(2 - 90)
01 03	0000 000d	SRV : Output Mode	2 - 90 (0 - 1)
01 04	0000 00aa	SPACE ECHO : Echo Repeat rate	MONO, STEREO (0 - 9999)
	0000 bbbb		1ms - 10000ms
	0000 cccc		
	0000 dddd		
01 08	0000 00aa	SPACE ECHO : Echo BPM	(1 - 2400000) J=0.1 - JF=240000.0
	0000 bbbb		
	0000 cccc		
	0000 dddd		
	0000 eeee		
	0000 ffff		
01 0E	0000 0ddd	SPACE ECHO : Echo Head Select	(0 - 6) 1, 2, 3, 1+2, 1+3, 2+3, 1+2+3
01 0F	0ddd dddd	SPACE ECHO : Echo Volume	(0 - 120)
01 10	0ddd dddd	SPACE ECHO : Reverb : Effect Level	0 - 120 (0 - 100)
01 11	0000 dddd	TAP/CTL Function	0 - 100 (0 - 8)
01 12	0000 000d	TAP/CTL Mode	OFF, HOLD, WARP, TWIST, TAP, MOMENT, FADE, BANK UP, BANK DOWN (0 - 1)
01 13	0ddd dddd	TAP/CTL Hold Time	MOMENT, TOGGLE (0 - 100)
01 14	0ddd dddd	TAP/CTL Twist Rise Time	0 - 100 (0 - 100)
01 15	0ddd dddd	TAP/CTL Twist Fall Time	0 - 100 (0 - 100)
01 16	0000 dddd	CTL1 Function	0 - 100 (0 - 8)
01 17	0000 000d	CTL1 Mode	OFF, HOLD, WARP, TWIST, TAP, MOMENT, FADE, BANK UP, BANK DOWN (0 - 1)
01 18	0ddd dddd	CTL1 Hold Time	MOMENT, TOGGLE (0 - 100)
01 19	0ddd dddd	CTL1 Twist Rise time	0 - 100 (0 - 100)
01 1A	0ddd dddd	CTL1 Twist Fall time	0 - 100 (0 - 100)
01 1B	0000 dddd	CTL2 Function	0 - 100 (0 - 8)
01 1C	0000 000d	CTL2 Mode	OFF, HOLD, WARP, TWIST, TAP, MOMENT, FADE, BANK UP, BANK DOWN (0 - 1)
01 1D	0ddd dddd	CTL2 Hold Time	MOMENT, TOGGLE (0 - 100)
01 1E	0ddd dddd	CTL2 Rise Time	0 - 100 (0 - 100)
01 1F	0ddd dddd	CTL2 Fall Time	0 - 100 (0 - 100)
01 20	0000 dddd	Exp Pedal Function	0 - 100 (0 - 14)
01 21	0000 00aa	Exp target Min	OFF, RV TIME, RV PRE-DLY, RV LOW, RV HIGH, RV LEVEL, RV MOD DPT, RV MOD RAT, DL TIME, DL F.BACK, DL LOW, DL HIGH, DL LEVEL, DL MOD DPT, DL MOD RAT (0 - 2400100) offset:100 -100 - 2400000
	0000 bbbb		
	0000 cccc		
	0000 dddd		
	0000 eeee		
	0000 ffff		
01 27	0000 00aa	Exp target Max	(0 - 2400100) offset:100 -100 - 2400000
	0000 bbbb		
	0000 cccc		
	0000 dddd		
	0000 eeee		
	0000 ffff		
01 2D	0000 000d	ASSIGN1 sw	(0 - 1) OFF, ON
01 2E	0ddd dddd	ASSIGN1 source	(0 - 69) TAP/CTL, EXP PDL, CTL1 PDL, CTL2 PDL, INT PDL, WAVE PDL, INPUT, CC#1, CC#2, CC#3, CC#4, CC#5, CC#6, CC#7, CC#8, CC#9, CC#10, CC#11, CC#12, CC#13, CC#14, CC#15, CC#16, CC#17, CC#18, CC#19, CC#20, CC#21, CC#22, CC#23, CC#24, CC#25, CC#26, CC#27, CC#28, CC#29, CC#30, CC#31, CC#64, CC#65, CC#66, CC#67, CC#68, CC#69, CC#70, CC#71, CC#72, CC#73, CC#74, CC#75, CC#76, CC#77, CC#78, CC#79, CC#80, CC#81, CC#82, CC#83, CC#84, CC#85, CC#86, CC#87, CC#88, CC#89, CC#90, CC#91, CC#92, CC#93, CC#94, CC#95
01 2F	0000 000d	ASSIGN1 source mode	(0 - 1) MOMENT, TOGGLE
01 30	0ddd dddd	ASSIGN1 target	(0 - 109) Effect Switch, Rev Mode, Rev Time, Rev PreDelay, Rev ELevel, Rev Low,

			Rev High, Rev LoCut, Rev HiCut, Rev LoDamp, Rev HiDamp, Rev Density, Rev ModDepth, Rev ModRate, Delay Connect, Delay Time, Delay BPM, Delay Note, Delay Feedback, Delay ELevel, Delay Low, Delay High, Delay ModDepth, Delay ModRate, Delay InputLvl, Carry Over, Direct Level, Input Level, Duck Sens, Duck Pre Depth, Duck Pst Depth, Output Gain, Room Type, Hall Type, Spring Number, Shimmer Pitch1, Shimmer Fine1, Shimmer Rel1, Shimmer Level1, Shimmer Pitch2, Shimmer Fine2, Shimmer Rel2, Shimmer Level2, FstDecay Decay, ER Time, ER Type, ER Envelope, NonLinear Type, Gate Threshold, Gate HoldTime, Reverse Time, Reverse GateIm, SFX Type, L0-F1 L0-F1, L0-F1 Dist, L0-F1 Level, L0-F1 DLevel, SlwVerb RiseTm, SlwVerb Sens, SlwVerb Lower, SlwVerb Upper, SlwVerb Unison, SlwVerb Detune, Storm Color, Storm Depth, Storm Speed, Dual Type1, Dual Time1, Dual PreDly1, Dual Low1, Dual High1, Dual LoCut1, Dual HiCut1, Dual Density1, Dual ELevel1, Dual Type2, Dual Time2, Dual PreDly2, Dual Low2, Dual High2, Dual LoCut2, Dual HiCut2, Dual Density2, Dual ELevel2, Dual CrsOver, SRV Selection, SRV HfDamp, SRV Density, SRV AttackGain, SRV AttackTime, SRV ER Density, SRV ER Level, SRV LowGain, SRV LowFreq, SRV MidGain, SRV MidFreq, SRV MidQ, SRV HighGain, SRV HighFreq, SRV HighQ, SRV OutputMode, SpaceE Repeat, SpaceE BPM, SpaceE Intnsty, SpaceE EchoVol, SpaceE HeadSel, SpaceE Bass, SpaceE Treble, SpaceE RevELvl, LED
01 31	0000 00aa	ASSIGN1 target min	(0 - 2400100) offset:100 -100 - 2400000
	0000 bbbb		
	0000 cccc		
	0000 dddd		
	0000 eeee		
	0000 ffff		
01 37	0000 00aa	ASSIGN1 target max	(0 - 2400100) offset:100 -100 - 2400000
	0000 bbbb		
	0000 cccc		
	0000 dddd		
	0000 eeee		
	0000 ffff		
01 3D	0ddd dddd	ASSIGN1 Active Range L0	(0 - 126) 0 - 126
01 3E	0ddd dddd	ASSIGN1 Active Range HI	(1 - 127) 1 - 127
01 3F	0ddd dddd	ASSIGN1 Wave Rate	(0 - 113) 0 - 100, WHL, 2THd, WHL3, 2TH, 4THd, 2TH3, 4TH, 8THd, 4TH3, 8TH, 16THd, 8TH3, 16TH
01 40	0000 00dd	ASSIGN1 Wave Form	(0 - 2) SAW, TRI, SIN
01 41	0ddd dddd	ASSIGN1 Internal Pedal Trigger	(0 - 68) PAT CNG, EXP LOW, EXP MID, EXP HIGH, CTL1 PDL, CTL2 PDL, CC#1, CC#2, CC#3, CC#4, CC#5, CC#6, CC#7, CC#8, CC#9, CC#10, CC#11, CC#12, CC#13, CC#14, CC#15, CC#16, CC#17, CC#18, CC#19, CC#20, CC#21, CC#22, CC#23, CC#24, CC#25, CC#26, CC#27, CC#28, CC#29, CC#30, CC#31, CC#64, CC#65, CC#66, CC#67, CC#68, CC#69, CC#70, CC#71, CC#72, CC#73, CC#74, CC#75, CC#76, CC#77, CC#78, CC#79, CC#80, CC#81, CC#82, CC#83, CC#84, CC#85, CC#86, CC#87, CC#88, CC#89, CC#90, CC#91, CC#92, CC#93, CC#94, CC#95
01 42	0ddd dddd	ASSIGN1 Internal Pedal Time	(0 - 100) 0 - 100
01 43	0000 00dd	ASSIGN1 Internal Pedal Curve	(0 - 2) LINEAR, SLOW, FAST
01 44	0000 000d	ASSIGN2 sw	(0 - 1) OFF, ON
01 45	0ddd dddd	ASSIGN2 source	(0 - 69) TAP/CTL, EXP PDL, CTL1 PDL, CTL2 PDL, INT PDL, WAVE PDL, INPUT, CC#1, CC#2, CC#3, CC#4, CC#5, CC#6, CC#7, CC#8, CC#9, CC#10, CC#11, CC#12, CC#13, CC#14, CC#15, CC#16, CC#17, CC#18, CC#19, CC#20, CC#21, CC#22, CC#23, CC#24, CC#25, CC#26, CC#27, CC#28, CC#29, CC#30, CC#31, CC#64, CC#65, CC#66, CC#67, CC#68, CC#69, CC#70, CC#71, CC#72, CC#73, CC#74, CC#75, CC#76, CC#77, CC#78, CC#79, CC#80, CC#81, CC#82, CC#83, CC#84, CC#85, CC#86, CC#87, CC#88, CC#89, CC#90, CC#91, CC#92, CC#93, CC#94, CC#95
01 46	0000 000d	ASSIGN2 source mode	(0 - 1) MOMENT, TOGGLE
01 47	0ddd dddd	ASSIGN2 target	(0 - 109) Effect Switch, Rev Mode, Rev Time, Rev PreDelay, Rev ELevel, Rev Low, Rev High, Rev LoCut, Rev HiCut, Rev LoDamp, Rev HiDamp, Rev Density, Rev ModDepth, Rev ModRate, Delay Connect, Delay Time, Delay BPM, Delay Note, Delay Feedback, Delay ELevel, Delay Low, Delay High, Delay ModDepth, Delay ModRate, Delay InputLvl, Carry Over, Direct Level, Input Level, Duck Sens, Duck Pre Depth, Duck Pst Depth, Output Gain, Room Type, Hall Type, Spring Number, Shimmer Pitch1, Shimmer Fine1, Shimmer Rel1, Shimmer Level1, Shimmer Pitch2, Shimmer Fine2, Shimmer Rel2, Shimmer Level2, FstDecay Decay, ER Time, ER Type, ER Envelope, NonLinear Type, Gate Threshold, Gate HoldTime, Reverse Time, Reverse GateIm, SFX Type, L0-F1 L0-F1, L0-F1 Dist, L0-F1 Level, L0-F1 DLevel, SlwVerb RiseTm, SlwVerb Sens, SlwVerb Lower, SlwVerb Upper, SlwVerb Unison, SlwVerb Detune, Storm Color, Storm Depth, Storm Speed, Dual Type1, Dual Time1, Dual PreDly1, Dual Low1, Dual High1, Dual LoCut1, Dual HiCut1, Dual Density1, Dual ELevel1, Dual Type2, Dual Time2, Dual PreDly2, Dual Low2, Dual High2, Dual LoCut2, Dual HiCut2, Dual Density2, Dual ELevel2, Dual CrsOver, SRV Selection, SRV HfDamp, SRV Density, SRV AttackGain, SRV AttackTime, SRV ER Density, SRV ER Level, SRV LowGain, SRV LowFreq, SRV MidGain, SRV MidFreq, SRV MidQ, SRV HighGain, SRV HighFreq, SRV HighQ, SRV OutputMode, SpaceE Repeat, SpaceE BPM, SpaceE Intnsty, SpaceE EchoVol, SpaceE HeadSel, SpaceE Bass, SpaceE Treble, SpaceE RevELvl, LED
01 48	0000 00aa	ASSIGN2 target min	(0 - 2400100) offset:100 -100 - 2400000
	0000 bbbb		
	0000 cccc		
	0000 dddd		
	0000 eeee		
	0000 ffff		
01 4E	0000 00aa	ASSIGN2 target max	(0 - 2400100) offset:100 -100 - 2400000
	0000 bbbb		
	0000 cccc		
	0000 dddd		
	0000 eeee		
	0000 ffff		
01 54	0ddd dddd	ASSIGN2 Active Range L0	(0 - 126) 0 - 126
01 55	0ddd dddd	ASSIGN2 Active Range HI	(1 - 127)

01 56	Oddd dddd	ASSIGN2 Wave Rate	1 - 127 (0 - 113) 0 - 100, WHL, 2THd, WHL3, 2TH, 4THd, 2TH3, 4TH, 8THd, 4TH3, 8TH, 16THd, 8TH3, 16TH (0 - 2) SAW, TRI, SIN (0 - 68) PAT CNG, EXP LOW, EXP MID, EXP HIGH, CTL1 PDL, CTL2 PDL, CC#1, CC#2, CC#3, CC#4, CC#5, CC#6, CC#7, CC#8, CC#9, CC#10, CC#11, CC#12, CC#13, CC#14, CC#15, CC#16, CC#17, CC#18, CC#19, CC#20, CC#21, CC#22, CC#23, CC#24, CC#25, CC#26, CC#27, CC#28, CC#29, CC#30, CC#31, CC#64, CC#65, CC#66, CC#67, CC#68, CC#69, CC#70, CC#71, CC#72, CC#73, CC#74, CC#75, CC#76, CC#77, CC#78, CC#79, CC#80, CC#81, CC#82, CC#83, CC#84, CC#85, CC#86, CC#87, CC#88, CC#89, CC#90, CC#91, CC#92, CC#93, CC#94, CC#95 (0 - 100) 0 - 100 (0 - 2) LINEAR, SLOW, FAST (0 - 1) OFF, ON (0 - 69) TAP/CTL, EXP PDL, CTL1 PDL, CTL2 PDL, INT PDL, WAVE PDL, INPUT, CC#1, CC#2, CC#3, CC#4, CC#5, CC#6, CC#7, CC#8, CC#9, CC#10, CC#11, CC#12, CC#13, CC#14, CC#15, CC#16, CC#17, CC#18, CC#19, CC#20, CC#21, CC#22, CC#23, CC#24, CC#25, CC#26, CC#27, CC#28, CC#29, CC#30, CC#31, CC#64, CC#65, CC#66, CC#67, CC#68, CC#69, CC#70, CC#71, CC#72, CC#73, CC#74, CC#75, CC#76, CC#77, CC#78, CC#79, CC#80, CC#81, CC#82, CC#83, CC#84, CC#85, CC#86, CC#87, CC#88, CC#89, CC#90, CC#91, CC#92, CC#93, CC#94, CC#95 (0 - 1) MOMENT, TOGGLE (0 - 109) Effect Switch, Rev Mode, Rev Time, Rev PreDelay, Rev ELevel, Rev Low, Rev High, Rev LoCut, Rev HiCut, Rev LoDamp, Rev HiDamp, Rev Density, Rev ModDepth, Rev ModRate, Delay Connect, Delay Time, Delay BPM, Delay Note, Delay Feedback, Delay ELevel, Delay Low, Delay High, Delay ModDepth, Delay ModRate, Delay InputLvl, Carry Over, Direct Level, Input Level, Duck Sens, Duck Pre Depth, Duck Pst Depth, Output Gain, Room Type, Hall Type, Spring Number, Shimmer Pitch1, Shimmer Fine1, Shimmer Rel1, Shimmer Level1, Shimmer Pitch2, Shimmer Fine2, Shimmer Rel2, Shimmer Level2, FstDecay Decay, ER Time, ER Type, ER Envelope, NonLinear Type, Gate Threshold, Gate HoldTime, Reverse Time, Reverse GateTm, SFX Type, LO-FI LO-FI, LO-FI Dist, LO-FI Level, LO-FI DLevel, SlwVerb RiseTm, SlwVerb Sens, SlwVerb Lower, SlwVerb Upper, SlwVerb Unison, SlwVerb Detune, Storm Color, Storm Depth, Storm Speed, Dual Type1, Dual Time1, Dual PreDly1, Dual Low1, Dual High1, Dual LoCut1, Dual HiCut1, Dual Density1, Dual ELevel1, Dual Type2, Dual Time2, Dual PreDly2, Dual Low2, Dual High2, Dual LoCut2, Dual HiCut2, Dual Density2, Dual ELevel2, Dual CrsOver, SRV Selection, SRV Hfdamp, SRV Density, SRV AttackGain, SRV AttackTime, SRV ER Density, SRV ER Level, SRV LowGain, SRV LowFreq, SRV MidGain, SRV MidFreq, SRV MidQ, SRV HighGain, SRV HighFreq, SRV HighQ, SRV OutputMode, SpaceE Repeat, SpaceE BPM, SpaceE Intnsty, SpaceE EchoVol, SpaceE HeadSel, SpaceE Bass, SpaceE Treble, SpaceE RevELvl, LED (0 - 2400100) offset:100 -100 - 2400000
01 57	0000 00dd	ASSIGN2 Wave Form	
01 58	Oddd dddd	ASSIGN2 Internal Pedal Trigger	
01 59	Oddd dddd	ASSIGN2 Internal Pedal Time	
01 5A	0000 00dd	ASSIGN2 Internal Pedal Curve	
01 5B	0000 000d	ASSIGN3 sw	
01 5C	Oddd dddd	ASSIGN3 source	
01 5D	0000 000d	ASSIGN3 source mode	
01 5E	Oddd dddd	ASSIGN3 target	
01 5F	0000 00aa	ASSIGN3 target min	
	0000 bbbb		
	0000 cccc		
	0000 dddd		
	0000 eeee		
	0000 ffff		
01 65	0000 00aa	ASSIGN3 target max	
	0000 bbbb		
	0000 cccc		
	0000 dddd		
	0000 eeee		
	0000 ffff		
01 6B	Oddd dddd	ASSIGN3 Active Range LO	
01 6C	Oddd dddd	ASSIGN3 Active Range HI	
01 6D	Oddd dddd	ASSIGN3 Wave Rate	
01 6E	0000 00dd	ASSIGN3 Wave Form	
01 6F	Oddd dddd	ASSIGN3 Internal Pedal Trigger	
01 70	Oddd dddd	ASSIGN3 Internal Pedal Time	
01 71	0000 00dd	ASSIGN3 Internal Pedal Curve	
01 72	0000 000d	ASSIGN4 sw	
01 73	Oddd dddd	ASSIGN4 source	
01 74	0000 000d	ASSIGN4 source mode	
01 75	Oddd dddd	ASSIGN4 target	

			Delay ModRate, Delay InputLvl, Carry Over, Direct Level, Input Level, Duck Sens, Duck Pre Depth, Duck Pst Depth, Output Gain, Room Type, Hall Type, Spring Number, Shimmer Pitch1, Shimmer Fine1, Shimmer Rel1, Shimmer Level1, Shimmer Pitch2, Shimmer Fine2, Shimmer Rel2, Shimmer Level2, FstDecay Decay, ER Time, ER Type, ER Envelope, NonLinear Type, Gate Threshold, Gate HoldTime, Reverse Time, Reverse GateTm, SFX Type, L0-FI L0-FI, L0-FI Dist, L0-FI Level, L0-FI DLevel, SlwVerb RiseTm, SlwVerb Sens, SlwVerb Lower, SlwVerb Upper, SlwVerb Unison, SlwVerb Detune, Storm Color, Storm Depth, Storm Speed, Dual Type1, Dual Time1, Dual PreDly1, Dual Low1, Dual High1, Dual LoCut1, Dual HiCut1, Dual Density1, Dual ELevel1, Dual Type2, Dual Time2, Dual PreDly2, Dual Low2, Dual High2, Dual LoCut2, Dual HiCut2, Dual Density2, Dual ELevel2, Dual CrsOver, SRV Selection, SRV HfDamp, SRV Density, SRV AttackGain, SRV AttackTime, SRV ER Density, SRV ER Level, SRV LowGain, SRV LowFreq, SRV MidGain, SRV MidFreq, SRV MidQ, SRV HighGain, SRV HighFreq, SRV HighQ, SRV OutputMode, SpaceE Repeat, SpaceE BPM, SpaceE Intnsty, SpaceE EchoVol, SpaceE HeadSel, SpaceE Bass, SpaceE Treble, SpaceE RevELvl, LED
01 76	0000 00aa	ASSIGN4 target min	(0 - 2400100) offset:100 -100 - 2400000
	0000 bbbb		
	0000 cccc		
	0000 dddd		
	0000 eeee		
	0000 ffff		
01 7C	0000 00aa	ASSIGN4 target max	(0 - 2400100) offset:100 -100 - 2400000
	0000 bbbb		
	0000 cccc		
	0000 dddd		
	0000 eeee		
	0000 ffff		
02 02	Oddd dddd	ASSIGN4 Active Range L0	(0 - 126) 0 - 126
02 03	Oddd dddd	ASSIGN4 Active Range HI	(1 - 127) 1 - 127
02 04	Oddd dddd	ASSIGN4 Wave Rate	(0 - 113) 0 - 100, WHL, 2THd, WHL3, 2TH, 4THd, 2TH3, 4TH, 8THd, 4TH3, 8TH, 16THd, 8TH3, 16TH
02 05	0000 00dd	ASSIGN4 Wave Form	(0 - 2) SAW, TRI, SIN
02 06	Oddd dddd	ASSIGN4 Internal Pedal Trigger	(0 - 68) PAT CNG, EXP LOW, EXP MID, EXP HIGH, CTL1 PDL, CTL2 PDL, CC#1, CC#2, CC#3, CC#4, CC#5, CC#6, CC#7, CC#8, CC#9, CC#10, CC#11, CC#12, CC#13, CC#14, CC#15, CC#16, CC#17, CC#18, CC#19, CC#20, CC#21, CC#22, CC#23, CC#24, CC#25, CC#26, CC#27, CC#28, CC#29, CC#30, CC#31, CC#64, CC#65, CC#66, CC#67, CC#68, CC#69, CC#70, CC#71, CC#72, CC#73, CC#74, CC#75, CC#76, CC#77, CC#78, CC#79, CC#80, CC#81, CC#82, CC#83, CC#84, CC#85, CC#86, CC#87, CC#88, CC#89, CC#90, CC#91, CC#92, CC#93, CC#94, CC#95
02 07	Oddd dddd	ASSIGN4 Internal Pedal Time	(0 - 100) 0 - 100
02 08	0000 00dd	ASSIGN4 Internal Pedal Curve	(0 - 2) LINEAR, SLOW, FAST
02 09	0000 000d	ASSIGN5 sw	(0 - 1) OFF, ON
02 0A	Oddd dddd	ASSIGN5 source	(0 - 69) TAP/CTL, EXP PDL, CTL1 PDL, CTL2 PDL, INT PDL, WAVE PDL, INPUT, CC#1, CC#2, CC#3, CC#4, CC#5, CC#6, CC#7, CC#8, CC#9, CC#10, CC#11, CC#12, CC#13, CC#14, CC#15, CC#16, CC#17, CC#18, CC#19, CC#20, CC#21, CC#22, CC#23, CC#24, CC#25, CC#26, CC#27, CC#28, CC#29, CC#30, CC#31, CC#64, CC#65, CC#66, CC#67, CC#68, CC#69, CC#70, CC#71, CC#72, CC#73, CC#74, CC#75, CC#76, CC#77, CC#78, CC#79, CC#80, CC#81, CC#82, CC#83, CC#84, CC#85, CC#86, CC#87, CC#88, CC#89, CC#90, CC#91, CC#92, CC#93, CC#94, CC#95
02 0B	0000 000d	ASSIGN5 source mode	(0 - 1) MOMENT, TOGGLE
02 0C	Oddd dddd	ASSIGN5 target	(0 - 109) Effect Switch, Rev Mode, Rev Time, Rev PreDelay, Rev ELevel, Rev Low, Rev High, Rev LoCut, Rev HiCut, Rev LoDamp, Rev HiDamp, Rev Density, Rev ModDepth, Rev ModRate, Delay Connect, Delay Time, Delay BPM, Delay Note, Delay Feedback, Delay ELevel, Delay Low, Delay High, Delay ModDepth, Delay ModRate, Delay InputLvl, Carry Over, Direct Level, Input Level, Duck Sens, Duck Pre Depth, Duck Pst Depth, Output Gain, Room Type, Hall Type, Spring Number, Shimmer Pitch1, Shimmer Fine1, Shimmer Rel1, Shimmer Level1, Shimmer Pitch2, Shimmer Fine2, Shimmer Rel2, Shimmer Level2, FstDecay Decay, ER Time, ER Type, ER Envelope, NonLinear Type, Gate Threshold, Gate HoldTime, Reverse Time, Reverse GateTm, SFX Type, L0-FI L0-FI, L0-FI Dist, L0-FI Level, L0-FI DLevel, SlwVerb RiseTm, SlwVerb Sens, SlwVerb Lower, SlwVerb Upper, SlwVerb Unison, SlwVerb Detune, Storm Color, Storm Depth, Storm Speed, Dual Type1, Dual Time1, Dual PreDly1, Dual Low1, Dual High1, Dual LoCut1, Dual HiCut1, Dual Density1, Dual ELevel1, Dual Type2, Dual Time2, Dual PreDly2, Dual Low2, Dual High2, Dual LoCut2, Dual HiCut2, Dual Density2, Dual ELevel2, Dual CrsOver, SRV Selection, SRV HfDamp, SRV Density, SRV AttackGain, SRV AttackTime, SRV ER Density, SRV ER Level, SRV LowGain, SRV LowFreq, SRV MidGain, SRV MidFreq, SRV MidQ, SRV HighGain, SRV HighFreq, SRV HighQ, SRV OutputMode, SpaceE Repeat, SpaceE BPM, SpaceE Intnsty, SpaceE EchoVol, SpaceE HeadSel, SpaceE Bass, SpaceE Treble, SpaceE RevELvl, LED
02 0D	0000 00aa	ASSIGN5 target min	(0 - 2400100) offset:100 -100 - 2400000
	0000 bbbb		
	0000 cccc		
	0000 dddd		
	0000 eeee		
	0000 ffff		
02 13	0000 00aa	ASSIGN5 target max	(0 - 2400100) offset:100 -100 - 2400000
	0000 bbbb		
	0000 cccc		
	0000 dddd		
	0000 eeee		
	0000 ffff		
02 19	Oddd dddd	ASSIGN5 Active Range L0	(0 - 126) 0 - 126
02 1A	Oddd dddd	ASSIGN5 Active Range HI	(1 - 127) 1 - 127
02 1B	Oddd dddd	ASSIGN5 Wave Rate	(0 - 113) 0 - 100, WHL, 2THd, WHL3, 2TH, 4THd, 2TH3, 4TH, 8THd, 4TH3, 8TH, 16THd, 8TH3, 16TH

02 1C	0000 00dd	ASSIGN5 Wave Form	16TH (0 - 2) SAW, TRI, SIN
02 1D	00dd dddd	ASSIGN5 Internal Pedal Trigger	(0 - 68) PAT CNG, EXP LOW, EXP MID, EXP HIGH, CTL1 PDL, CTL2 PDL, CC#1, CC#2, CC#3, CC#4, CC#5, CC#6, CC#7, CC#8, CC#9, CC#10, CC#11, CC#12, CC#13, CC#14, CC#15, CC#16, CC#17, CC#18, CC#19, CC#20, CC#21, CC#22, CC#23, CC#24, CC#25, CC#26, CC#27, CC#28, CC#29, CC#30, CC#31, CC#64, CC#65, CC#66, CC#67, CC#68, CC#69, CC#70, CC#71, CC#72, CC#73, CC#74, CC#75, CC#76, CC#77, CC#78, CC#79, CC#80, CC#81, CC#82, CC#83, CC#84, CC#85, CC#86, CC#87, CC#88, CC#89, CC#90, CC#91, CC#92, CC#93, CC#94, CC#95
02 1E	00dd dddd	ASSIGN5 Internal Pedal Time	(0 - 100) 0 - 100
02 1F	0000 00dd	ASSIGN5 Internal Pedal Curve	(0 - 2) LINEAR, SLOW, FAST
02 20	0000 000d	ASSIGN6 sw	(0 - 1) OFF, ON
02 21	00dd dddd	ASSIGN6 source	(0 - 69) TAP/CTL, EXP PDL, CTL1 PDL, CTL2 PDL, INT PDL, WAVE PDL, INPUT, CC#1, CC#2, CC#3, CC#4, CC#5, CC#6, CC#7, CC#8, CC#9, CC#10, CC#11, CC#12, CC#13, CC#14, CC#15, CC#16, CC#17, CC#18, CC#19, CC#20, CC#21, CC#22, CC#23, CC#24, CC#25, CC#26, CC#27, CC#28, CC#29, CC#30, CC#31, CC#64, CC#65, CC#66, CC#67, CC#68, CC#69, CC#70, CC#71, CC#72, CC#73, CC#74, CC#75, CC#76, CC#77, CC#78, CC#79, CC#80, CC#81, CC#82, CC#83, CC#84, CC#85, CC#86, CC#87, CC#88, CC#89, CC#90, CC#91, CC#92, CC#93, CC#94, CC#95
02 22	0000 000d	ASSIGN6 source mode	(0 - 1) MOMENT, TOGGLE
02 23	00dd dddd	ASSIGN6 target	(0 - 109) Effect Switch, Rev Mode, Rev Time, Rev PreDelay, Rev ELevel, Rev Low, Rev High, Rev LoCut, Rev HiCut, Rev LoDamp, Rev HiDamp, Rev Density, Rev ModDepth, Rev ModRate, Delay Connect, Delay Time, Delay BPM, Delay Note, Delay Feedback, Delay ELevel, Delay Low, Delay High, Delay ModDepth, Delay ModRate, Delay InputLvl, Carry Over, Direct Level, Input Level, Duck Sens, Duck Pre Depth, Duck Pst Depth, Output Gain, Room Type, Hall Type, Spring Number, Shimmer Pitch1, Shimmer Fine1, Shimmer Rel1, Shimmer Level1, Shimmer Pitch2, Shimmer Fine2, Shimmer Rel2, Shimmer Level2, FstDecay Decay, ER Time, ER Type, ER Envelope, NonLinear Type, Gate Threshold, Gate HoldTime, Reverse Time, Reverse GateTm, SFX Type, LO-FI LO-FI, LO-FI Dist, LO-FI Level, LO-FI DLevel, SlwVerb RiseTm, SlwVerb Sens, SlwVerb Lower, SlwVerb Upper, SlwVerb Unison, SlwVerb Detune, Storm Color, Storm Depth, Storm Speed, Dual Type1, Dual Time1, Dual PreDly1, Dual Low1, Dual High1, Dual LoCut1, Dual HiCut1, Dual Density1, Dual ELevel1, Dual Type2, Dual Time2, Dual PreDly2, Dual Low2, Dual High2, Dual LoCut2, Dual HiCut2, Dual Density2, Dual ELevel2, Dual CrsOver, SRV Selection, SRV Hfdamp, SRV Density, SRV AttackGain, SRV AttackTime, SRV ER Density, SRV ER Level, SRV LowGain, SRV LowFreq, SRV MidGain, SRV MidFreq, SRV MidQ, SRV HighGain, SRV HighFreq, SRV HighQ, SRV OutputMode, SpaceE Repeat, SpaceE BPM, SpaceE Intnsty, SpaceE EchoVol, SpaceE HeadSel, SpaceE Bass, SpaceE Treble, SpaceE RevELvl, LED
02 24	0000 00aa	ASSIGN6 target min	(0 - 2400100) offset:100 -100 - 2400000
	0000 bbbb 0000 cccc 0000 dddd 0000 eeee 0000 ffff		
02 2A	0000 00aa	ASSIGN6 target max	(0 - 2400100) offset:100 -100 - 2400000
	0000 bbbb 0000 cccc 0000 dddd 0000 eeee 0000 ffff		
02 30	00dd dddd	ASSIGN6 Active Range LO	(0 - 126) 0 - 126
02 31	00dd dddd	ASSIGN6 Active Range HI	(1 - 127) 1 - 127
02 32	00dd dddd	ASSIGN6 Wave Rate	(0 - 113) 0 - 100, WHL, 2THd, WHL3, 2TH, 4THd, 2TH3, 4TH, 8THd, 4TH3, 8TH, 16THd, 8TH3, 16TH
02 33	0000 00dd	ASSIGN6 Wave Form	(0 - 2) SAW, TRI, SIN
02 34	00dd dddd	ASSIGN6 Internal Pedal Trigger	(0 - 68) PAT CNG, EXP LOW, EXP MID, EXP HIGH, CTL1 PDL, CTL2 PDL, CC#1, CC#2, CC#3, CC#4, CC#5, CC#6, CC#7, CC#8, CC#9, CC#10, CC#11, CC#12, CC#13, CC#14, CC#15, CC#16, CC#17, CC#18, CC#19, CC#20, CC#21, CC#22, CC#23, CC#24, CC#25, CC#26, CC#27, CC#28, CC#29, CC#30, CC#31, CC#64, CC#65, CC#66, CC#67, CC#68, CC#69, CC#70, CC#71, CC#72, CC#73, CC#74, CC#75, CC#76, CC#77, CC#78, CC#79, CC#80, CC#81, CC#82, CC#83, CC#84, CC#85, CC#86, CC#87, CC#88, CC#89, CC#90, CC#91, CC#92, CC#93, CC#94, CC#95
02 35	00dd dddd	ASSIGN6 Internal Pedal Time	(0 - 100) 0 - 100
02 36	0000 00dd	ASSIGN6 Internal Pedal Curve	(0 - 2) LINEAR, SLOW, FAST
02 37	0000 000d	ASSIGN7 sw	(0 - 1) OFF, ON
02 38	00dd dddd	ASSIGN7 source	(0 - 69) TAP/CTL, EXP PDL, CTL1 PDL, CTL2 PDL, INT PDL, WAVE PDL, INPUT, CC#1, CC#2, CC#3, CC#4, CC#5, CC#6, CC#7, CC#8, CC#9, CC#10, CC#11, CC#12, CC#13, CC#14, CC#15, CC#16, CC#17, CC#18, CC#19, CC#20, CC#21, CC#22, CC#23, CC#24, CC#25, CC#26, CC#27, CC#28, CC#29, CC#30, CC#31, CC#64, CC#65, CC#66, CC#67, CC#68, CC#69, CC#70, CC#71, CC#72, CC#73, CC#74, CC#75, CC#76, CC#77, CC#78, CC#79, CC#80, CC#81, CC#82, CC#83, CC#84, CC#85, CC#86, CC#87, CC#88, CC#89, CC#90, CC#91, CC#92, CC#93, CC#94, CC#95
02 39	0000 000d	ASSIGN7 source mode	(0 - 1) MOMENT, TOGGLE
02 3A	00dd dddd	ASSIGN7 target	(0 - 109) Effect Switch, Rev Mode, Rev Time, Rev PreDelay, Rev ELevel, Rev Low, Rev High, Rev LoCut, Rev HiCut, Rev LoDamp, Rev HiDamp, Rev Density, Rev ModDepth, Rev ModRate, Delay Connect, Delay Time, Delay BPM, Delay Note, Delay Feedback, Delay ELevel, Delay Low, Delay High, Delay ModDepth, Delay ModRate, Delay InputLvl, Carry Over, Direct Level, Input Level, Duck Sens, Duck Pre Depth, Duck Pst Depth, Output Gain, Room Type, Hall Type, Spring Number, Shimmer Pitch1, Shimmer Fine1, Shimmer Rel1, Shimmer Level1, Shimmer Pitch2, Shimmer Fine2, Shimmer Rel2, Shimmer Level2, FstDecay Decay, ER Time, ER Type, ER Envelope, NonLinear Type, Gate Threshold, Gate HoldTime,

			Reverse Time, Reverse GateTm, SFX Type, LO-FI LO-FI, LO-FI Dist, LO-FI Level, LO-FI DLevel, SlwVerb RiseTm, SlwVerb Sens, SlwVerb Lower, SlwVerb Upper, SlwVerb Unison, SlwVerb Detune, Storm Color, Storm Depth, Storm Speed, Dual Type1, Dual Time1, Dual PreDly1, Dual Low1, Dual High1, Dual LoCut1, Dual HiCut1, Dual Density1, Dual ELevel1, Dual Type2, Dual Time2, Dual PreDly2, Dual Low2, Dual High2, Dual LoCut2, Dual HiCut2, Dual Density2, Dual ELevel2, Dual CrsOver, SRV Selection, SRV HfDamp, SRV Density, SRV AttackGain, SRV AttackTime, SRV ER Density, SRV ER Level, SRV LowGain, SRV LowFreq, SRV MidGain, SRV MidFreq, SRV MidQ, SRV HighGain, SRV HighFreq, SRV HighQ, SRV OutputMode, SpaceE Repeat, SpaceE BPM, SpaceE Intnsty, SpaceE EchoVol, SpaceE HeadSel, SpaceE Bass, SpaceE Treble, SpaceE RevELvl, LED
02 3B	0000 00aa	ASSIGN7 target min	(0 - 2400100) offset:100 -100 - 2400000
	0000 bbbb 0000 cccc 0000 dddd 0000 eeee 0000 ffff		
02 41	0000 00aa	ASSIGN7 target max	(0 - 2400100) offset:100 -100 - 2400000
	0000 bbbb 0000 cccc 0000 dddd 0000 eeee 0000 ffff		
02 47	0ddd dddd	ASSIGN7 Active Range L0	(0 - 126) 0 - 126
02 48	0ddd dddd	ASSIGN7 Active Range HI	(1 - 127) 1 - 127
02 49	0ddd dddd	ASSIGN7 Wave Rate	(0 - 113) 0 - 100, WHL, 2THd, WHL3, 2TH, 4THd, 2TH3, 4TH, 8THd, 4TH3, 8TH, 16THd, 8TH3, 16TH
02 4A	0000 00dd	ASSIGN7 Wave Form	(0 - 2) SAW, TRI, SIN
02 4B	0ddd dddd	ASSIGN7 Internal Pedal Trigger	(0 - 68) PAT CNG, EXP LOW, EXP MID, EXP HIGH, CTL1 PDL, CTL2 PDL, CC#1, CC#2, CC#3, CC#4, CC#5, CC#6, CC#7, CC#8, CC#9, CC#10, CC#11, CC#12, CC#13, CC#14, CC#15, CC#16, CC#17, CC#18, CC#19, CC#20, CC#21, CC#22, CC#23, CC#24, CC#25, CC#26, CC#27, CC#28, CC#29, CC#30, CC#31, CC#64, CC#65, CC#66, CC#67, CC#68, CC#69, CC#70, CC#71, CC#72, CC#73, CC#74, CC#75, CC#76, CC#77, CC#78, CC#79, CC#80, CC#81, CC#82, CC#83, CC#84, CC#85, CC#86, CC#87, CC#88, CC#89, CC#90, CC#91, CC#92, CC#93, CC#94, CC#95
02 4C	0ddd dddd	ASSIGN7 Internal Pedal Time	(0 - 100) 0 - 100
02 4D	0000 00dd	ASSIGN7 Internal Pedal Curve	(0 - 2) LINEAR, SLOW, FAST
02 4E	0000 000d	ASSIGN8 sw	(0 - 1) OFF, ON
02 4F	0ddd dddd	ASSIGN8 source	(0 - 69) TAP/CTL, EXP PDL, CTL1 PDL, CTL2 PDL, INT PDL, WAVE PDL, INPUT, CC#1, CC#2, CC#3, CC#4, CC#5, CC#6, CC#7, CC#8, CC#9, CC#10, CC#11, CC#12, CC#13, CC#14, CC#15, CC#16, CC#17, CC#18, CC#19, CC#20, CC#21, CC#22, CC#23, CC#24, CC#25, CC#26, CC#27, CC#28, CC#29, CC#30, CC#31, CC#64, CC#65, CC#66, CC#67, CC#68, CC#69, CC#70, CC#71, CC#72, CC#73, CC#74, CC#75, CC#76, CC#77, CC#78, CC#79, CC#80, CC#81, CC#82, CC#83, CC#84, CC#85, CC#86, CC#87, CC#88, CC#89, CC#90, CC#91, CC#92, CC#93, CC#94, CC#95
02 50	0000 000d	ASSIGN8 source mode	(0 - 1) MOMENT, TOGGLE
02 51	0ddd dddd	ASSIGN8 target	(0 - 109) Effect Switch, Rev Mode, Rev Time, Rev PreDelay, Rev ELevel, Rev Low, Rev High, Rev LoCut, Rev HiCut, Rev LoDamp, Rev HiDamp, Rev Density, Rev ModDepth, Rev ModRate, Delay Connect, Delay Time, Delay BPM, Delay Note, Delay Feedback, Delay ELevel, Delay Low, Delay High, Delay ModDepth, Delay ModRate, Delay InputLvl, Carry Over, Direct Level, Input Level, Duck Sens, Duck Pre Depth, Duck Pst Depth, Output Gain, Room Type, Hall Type, Spring Number, Shimmer Pitch1, Shimmer Fine1, Shimmer Rel1, Shimmer Level1, Shimmer Pitch2, Shimmer Fine2, Shimmer Rel2, Shimmer Level2, FstDecay Decay, ER Time, ER Type, ER Envelope, NonLinear Type, Gate Threshold, Gate HoldTime, Reverse Time, Reverse GateTm, SFX Type, LO-FI LO-FI, LO-FI Dist, LO-FI Level, LO-FI DLevel, SlwVerb RiseTm, SlwVerb Sens, SlwVerb Lower, SlwVerb Upper, SlwVerb Unison, SlwVerb Detune, Storm Color, Storm Depth, Storm Speed, Dual Type1, Dual Time1, Dual PreDly1, Dual Low1, Dual High1, Dual LoCut1, Dual HiCut1, Dual Density1, Dual ELevel1, Dual Type2, Dual Time2, Dual PreDly2, Dual Low2, Dual High2, Dual LoCut2, Dual HiCut2, Dual Density2, Dual ELevel2, Dual CrsOver, SRV Selection, SRV HfDamp, SRV Density, SRV AttackGain, SRV AttackTime, SRV ER Density, SRV ER Level, SRV LowGain, SRV LowFreq, SRV MidGain, SRV MidFreq, SRV MidQ, SRV HighGain, SRV HighFreq, SRV HighQ, SRV OutputMode, SpaceE Repeat, SpaceE BPM, SpaceE Intnsty, SpaceE EchoVol, SpaceE HeadSel, SpaceE Bass, SpaceE Treble, SpaceE RevELvl, LED
02 52	0000 00aa	ASSIGN8 target min	(0 - 2400100) offset:100 -100 - 2400000
	0000 bbbb 0000 cccc 0000 dddd 0000 eeee 0000 ffff		
02 58	0000 00aa	ASSIGN8 target max	(0 - 2400100) offset:100 -100 - 2400000
	0000 bbbb 0000 cccc 0000 dddd 0000 eeee 0000 ffff		
02 5E	0ddd dddd	ASSIGN8 Active Range L0	(0 - 126) 0 - 126
02 5F	0ddd dddd	ASSIGN8 Active Range HI	(1 - 127) 1 - 127
02 60	0ddd dddd	ASSIGN8 Wave Rate	(0 - 113) 0 - 100, WHL, 2THd, WHL3, 2TH, 4THd, 2TH3, 4TH, 8THd, 4TH3, 8TH, 16THd, 8TH3, 16TH
02 61	0000 00dd	ASSIGN8 Wave Form	(0 - 2) SAW, TRI, SIN
02 62	0ddd dddd	ASSIGN8 Internal Pedal Trigger	(0 - 68) PAT CNG, EXP LOW, EXP MID, EXP HIGH, CTL1 PDL, CTL2 PDL, CC#1, CC#2, CC#3,

			CC#4, CC#5, CC#6, CC#7, CC#8, CC#9, CC#10, CC#11, CC#12, CC#13, CC#14, CC#15, CC#16, CC#17, CC#18, CC#19, CC#20, CC#21, CC#22, CC#23, CC#24, CC#25, CC#26, CC#27, CC#28, CC#29, CC#30, CC#31, CC#64, CC#65, CC#66, CC#67, CC#68, CC#69, CC#70, CC#71, CC#72, CC#73, CC#74, CC#75, CC#76, CC#77, CC#78, CC#79, CC#80, CC#81, CC#82, CC#83, CC#84, CC#85, CC#86, CC#87, CC#88, CC#89, CC#90, CC#91, CC#92, CC#93, CC#94, CC#95
02 63	Oddd dddd	ASSIGN8 Internal Pedal Time	(0 - 100)
02 64	0000 00dd	ASSIGN8 Internal Pedal Curve	0 - 100
02 65	Oddd dddd	ASSIGN Input Sens	(0 - 2)
02 66	0000 000d	LED status	LINEAR, SLOW, FAST
			(0 - 100)
			0 - 100
			(0 - 1)
			OFF, ON

*1 Reverse Time >= Gate time

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, OFF 1-16, OFF	1-16, OFF 1-16, OFF	電源オフ後も記憶可能
モード	電源ON時 メッセージ 代用	モード 3 x *****	モード 3 x x	
ノート ナンバー:	音域	x *****	x *****	
ペロシティ	ノート・オン ノート・オフ	x x	x x	
アフター タッチ	キー別 チャンネル別	x x	x x	
ピッチ・ベンド		x	x	
コントロール チェンジ	0	o (0 - 2)	o (0 - 2)	バンク・セレクト (MSB)
	32	o (常に0) *3	o	バンク・セレクト (LSB)
	1 - 31	o *1	o *2	
	64 - 95	o *1	o *2	
プログラム チェンジ:	設定可能範囲	o 0-127 *****	o 0-127 0-127	プログラム・ナンバー 1-128
エクスクルーシブ		o	o	
	:ソング・ポジション	x	x	
コモン	:ソング・セレクト	x	x	
	:チューン	x	x	
リアル タイム	:クロック	o	o	
	:スタート	x	x	
	:コンティニュー	x	x	
	:ストップ	x	x	
	:オール・サウンド・オフ	x	x	
	:リセット・オール・コントローラー	x	x	
その他:	ローカル ON/OFF	x	x	
	:オール・ノート・オフ	x	x	
	:アクティブ・センシング	o	o	
	:システム・リセット	x	x	
備考		*1 MIDI: CC#で設定したCC#で送信します *2 MIDI: CC#で設定したCC#, ASSIGN SRCにCC#を設定している場合に受信します *3 "MIDI: BANK SEL OUT"=M+Lのとき送信します		

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

o : あり
x : なし