

## DIGITAL SYNTHESIZER

# K1II

## WAVE LIST

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#### A) BASIC WAVE GROUP

- 1~13 : SIN
- 14~32 : SAW
- 33~37 : SQUARE
- 38~40 : INVERSE-SAW etc.

#### B) LOW FREQUENCY RANGE GROUP

- 41 : BRASS
- 42~44 : STRING
- 45~51 : PIANO/E. PIANO
- 52~62 : GUITAR/BASS
- 63~65 : WIND/LEAD
- 66~75 : BELL/PERCUSSION/ORGAN etc.

#### C) MID FREQUENCY RANGE GROUP

- 76~83 : BRASS
- 84~85 : STRING
- 86~99 : PIANO/E. PIANO
- 100~114 : GUITAR/BASS
- 115~120 : WIND/LEAD
- 121~146 : BELL/PERCUSSION/ORGAN etc.

#### D) HI-MID FREQUENCY RANGE GROUP

- 147~149 : BRASS/ORCHESTRA
- 150~159 : PIANO/E. PIANO
- 160~163 : BASS
- 164~190 : BELL/PERCUSSION/ORGAN etc.

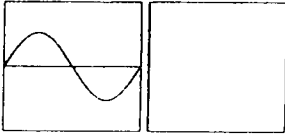
#### E) HI FREQUENCY RANGE GROUP

- 191 : CLAVI
- 192~197 : BASS
- 198~204 : LEAD/PERCUSSION etc.

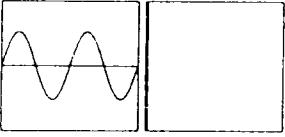
#### F) PCM WAVE GROUP

- 205~234 : ONE SHOT
- 235~242 : LOOP
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- 251~253 : REVERSE
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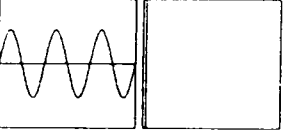
1. SIN 1st



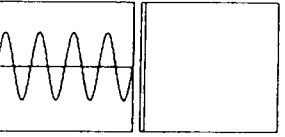
2. SIN 2nd



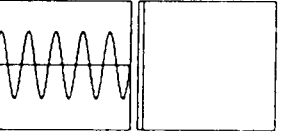
3. SIN 3rd



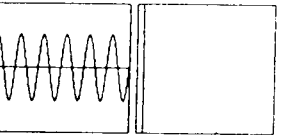
4. SIN 4th



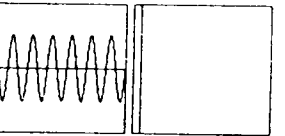
5. SIN 5th



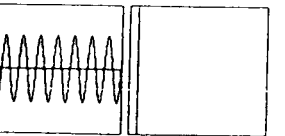
6. SIN 6th



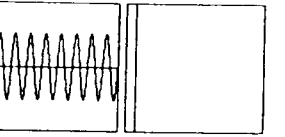
7. SIN 7th



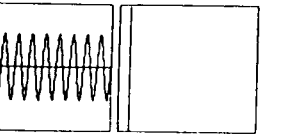
8. SIN 8th



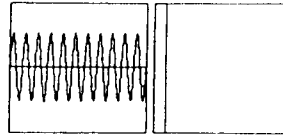
9. SIN 9th



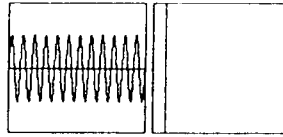
10. SIN 10th



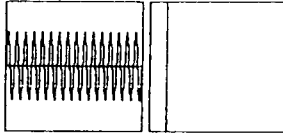
11. SIN 11th



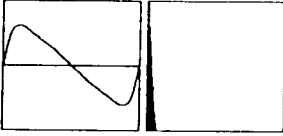
12. SIN 12th



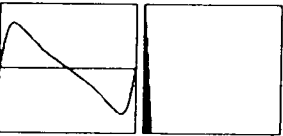
13. SIN 16th



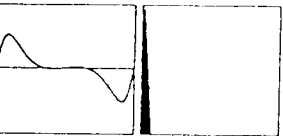
14. SAW 1



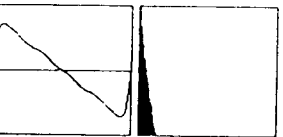
15. SAW 2



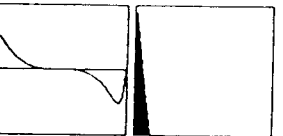
16. SAW 3



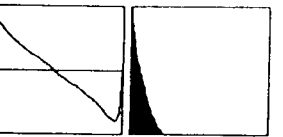
17. SAW 4



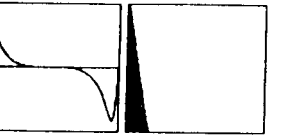
18. SAW 5



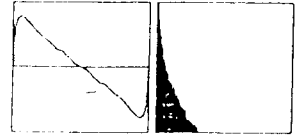
19. SAW 6



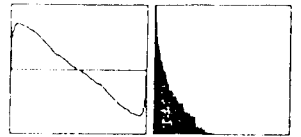
20. SAW 7



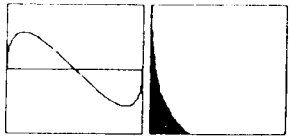
21. SAW 8



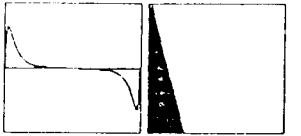
22. SAW 9



23. SAW 10



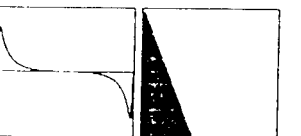
24. SAW 11



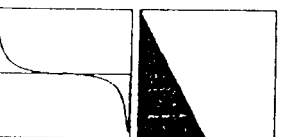
25. SAW 12



26. SAW 13



27. SAW 14



28. SAW 15



29. SAW 16



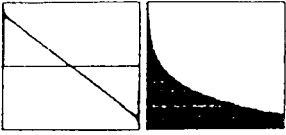
30. SAW 17



31. SAW 18



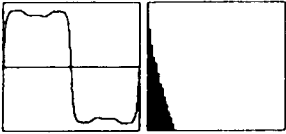
32. SAW 19



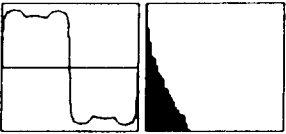
33. SQUARE 1



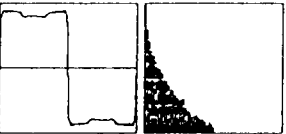
34. SQUARE 2



35. SQUARE 3



36. SQUARE 4



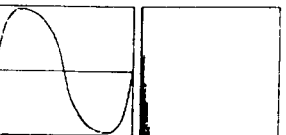
37. SQUARE 5



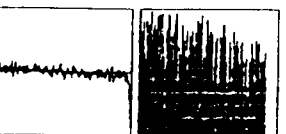
38. INVERSE-SAW



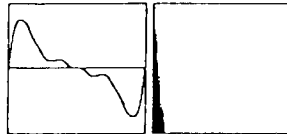
39. TRIANGLE



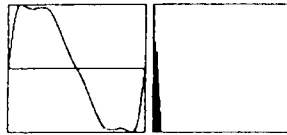
40. RANDOM



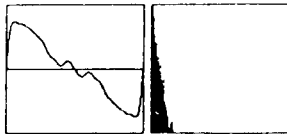
41. FRENCH HORN



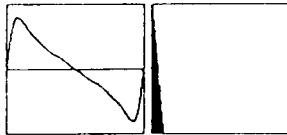
42. STRING



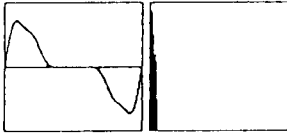
43. STRING



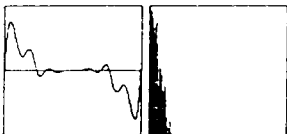
44. STRING PAD



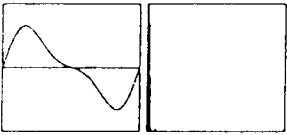
45. PIANO 1



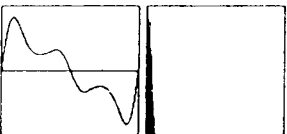
46. EL. GRAND



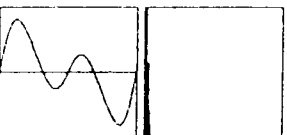
47. E. PIANO 1



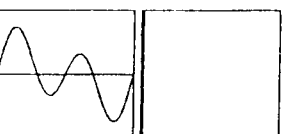
48. E. PIANO 2



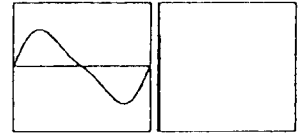
49. E. PIANO 3



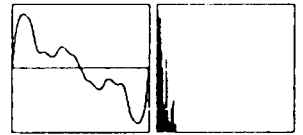
50. CLAVI



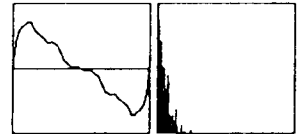
51. VIBE



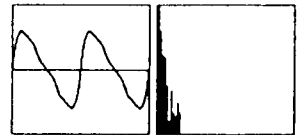
52. A. GUITAR



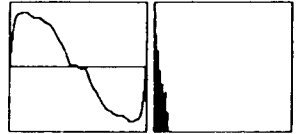
53. F. GUITAR



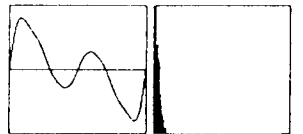
54. F. GUITAR



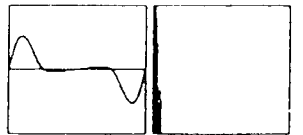
55. Ac BASS



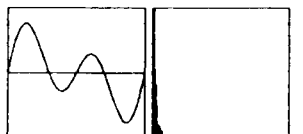
56. Ac BASS



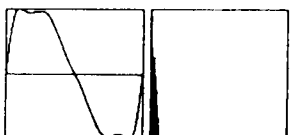
57. DIGI BASS 1



58. PICK BASS



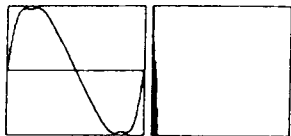
59. DIGI BASS 2



60. ROUND BASS



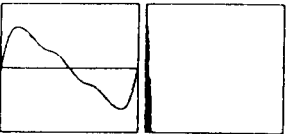
61. FRETLESS



62. FRETLESS



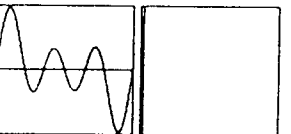
63. FLUTE



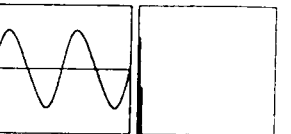
64. PANFLUTE



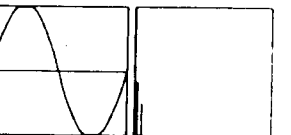
65. HARMONICA



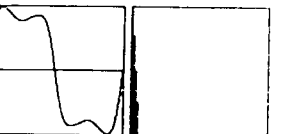
66. GLOCKEN



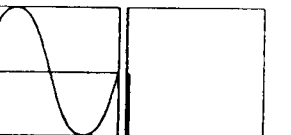
67. TINE



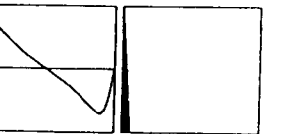
68. HARP



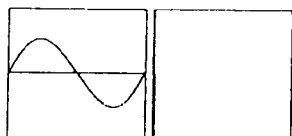
69. MARIMBA



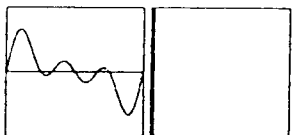
70. E. TOM



71. LOG DRUM



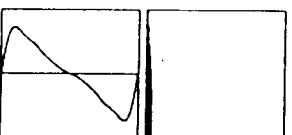
72. JAZZ ORGAN 1



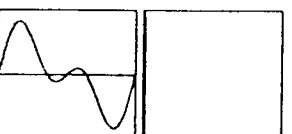
73. MELLO PAD



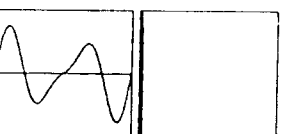
74. SYNTH SOLO



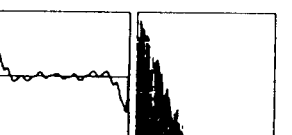
75. SYNTH 2



76. FRENCH HORN



77. FRENCH HORN



78. BRASS



79. BRASS



80. BRASS



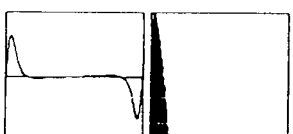
81. BRASS



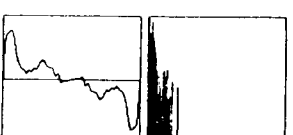
82. TRUMPET



83. TRUMPET



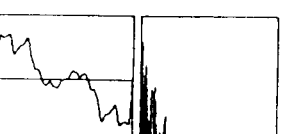
84. VIOLIN



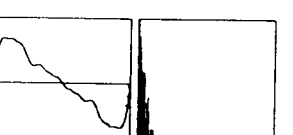
85. STRING



86. PIANO 1



87. PIANO 2



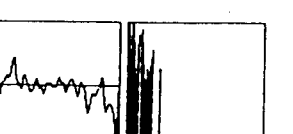
88. PIANO 3



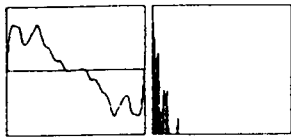
89. PIANO 2



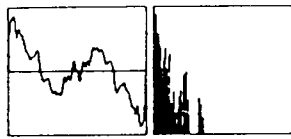
90. PIANO 3



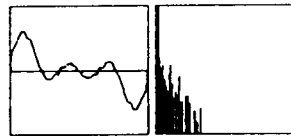
91. PIANO 4



92. PIANO 4



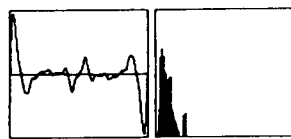
93. EL. GRAND



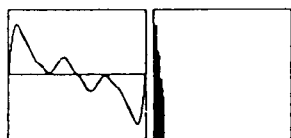
94. E. PIANO 1



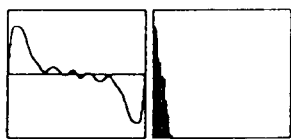
95. E. PIANO 2



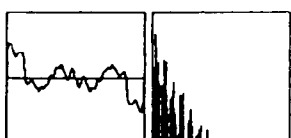
96. E. PIANO 2



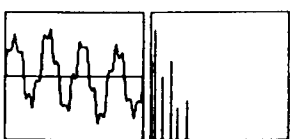
97. CLAVI



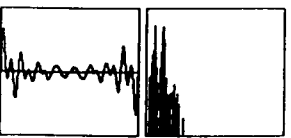
98. HARPSICHORD



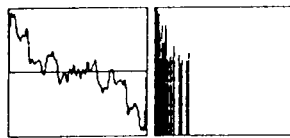
99. VIBE



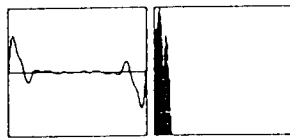
100. A. GUITAR



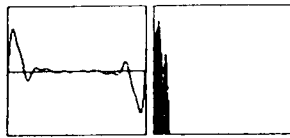
101. F. GUITAR



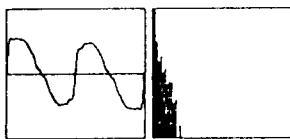
102. STRAT



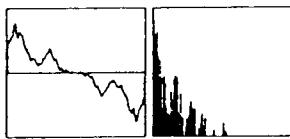
103. STRAT



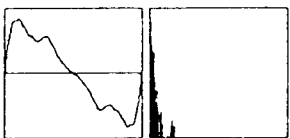
104. Ac BASS



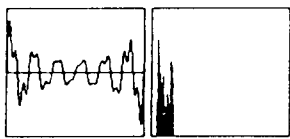
105. PULL BASS



106. PULL BASS



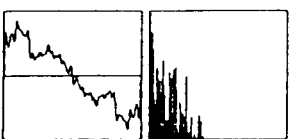
107. ROUND BASS



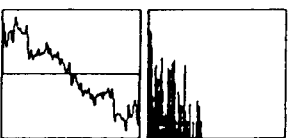
108. SLAP BASS



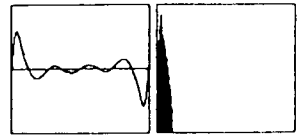
109. SLAP BASS



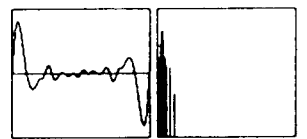
110. SLAP BASS



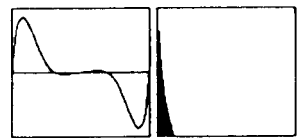
111. FRETLESS



112. FRETLESS



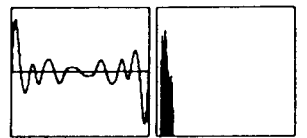
113. SYNTH BASS



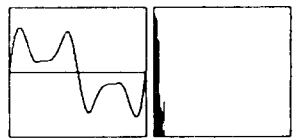
114. SYNTH BASS



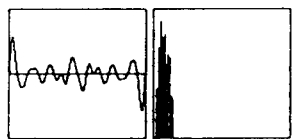
115. HARMONICA



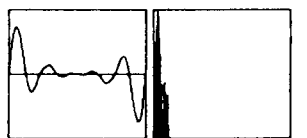
116. CLARINET



117. CLARINET



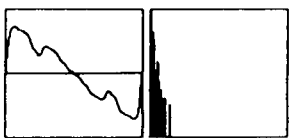
118. OBOE



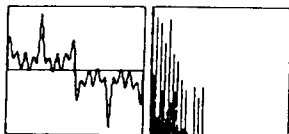
119. OBOE



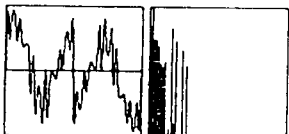
120. SHAKUHACHI



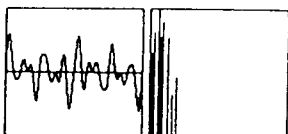
121. ORIENTAL BELL



122. ORIENTAL BELL



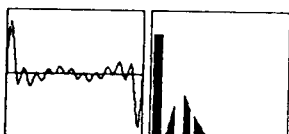
123. BELL



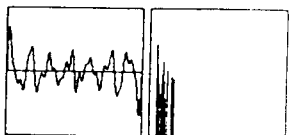
124. KOTO



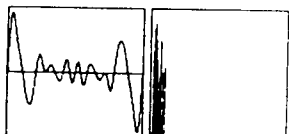
125. SITAR



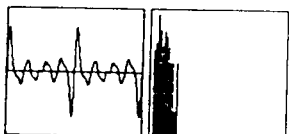
126. E. TOM



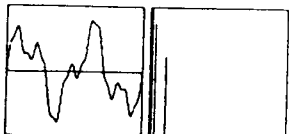
127. LOG DRUM



128. LOG DRUM



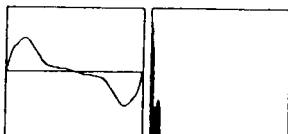
129. STEEL DRUM



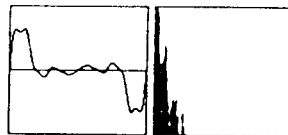
130. STEEL DRUM



131. VOICE 1



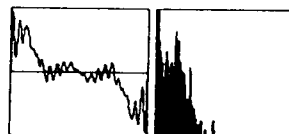
132. VOICE 2



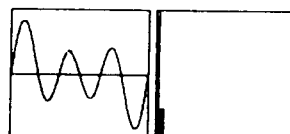
133. ACCORDION



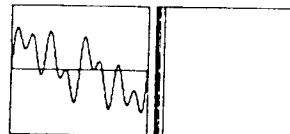
134. ACCORDION



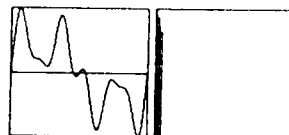
135. JAZZ ORGAN 2



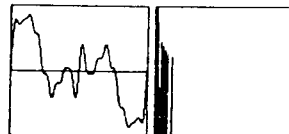
136. ROCK ORGAN 1



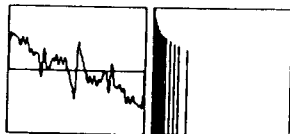
137. DRAW BAR 1



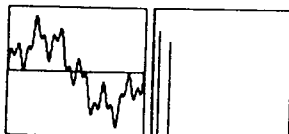
138. DRAW BAR 2



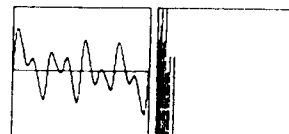
139. PIPE ORGAN 1



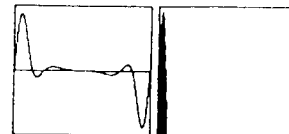
140. PIPE ORGAN 2



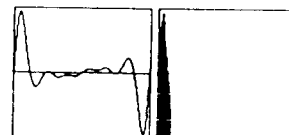
141. ROCK ORGAN 2



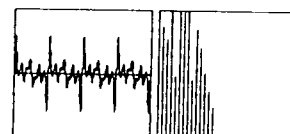
142. SYNTH SOLO



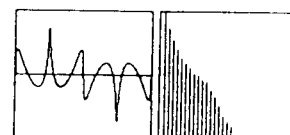
143. SYNTH SOLO



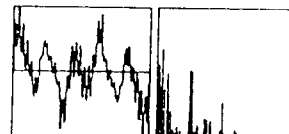
144. SYNTH 2



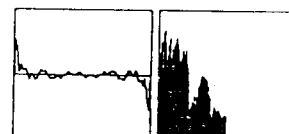
145. SYNTH 2



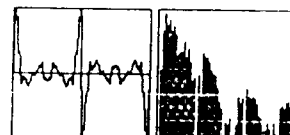
146. SYNTH 3



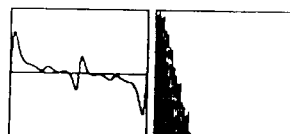
147. BRASS



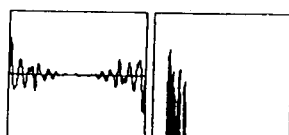
148. BRASS



149. ORCHESTRA



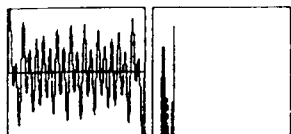
150. PIANO 1



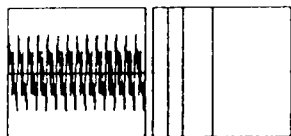
151. PIANO 4



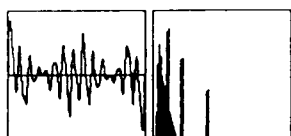
152. E. PIANO 1



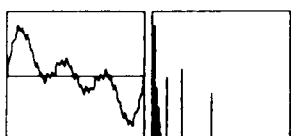
153. E. PIANO 1



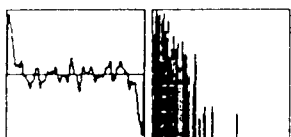
154. E. PIANO 2



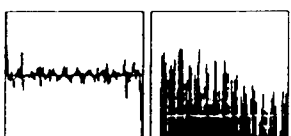
155. E. PIANO 3



156. CLAVI



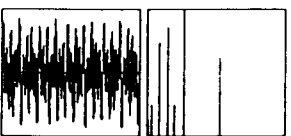
157. HARPSICHORD



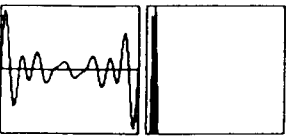
158. HARPSICHORD



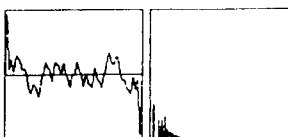
159. VIBE



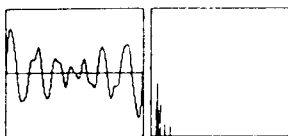
160. DIGI BASS 1



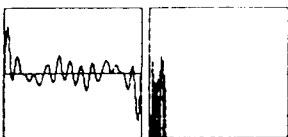
161. DIGI BASS 2



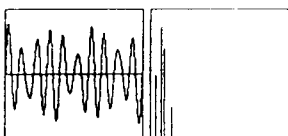
162. DIGI BASS 2



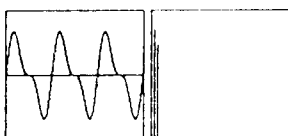
163. PICK BASS



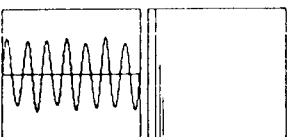
164. GLOCKEN



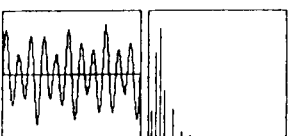
165. GLOCKEN



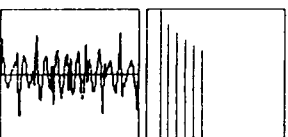
166. TINE



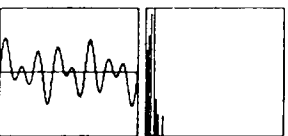
167. TINE



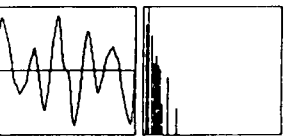
168. TINE



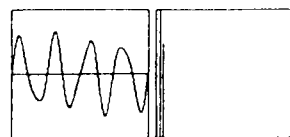
169. TUBE BELL



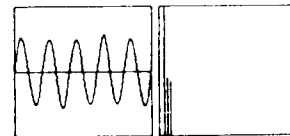
170. TUBE BELL



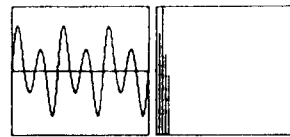
171. TUBE BELL



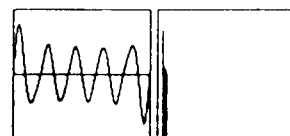
172. XYLOPHONE



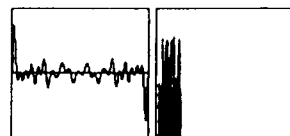
173. XYLOPHONE



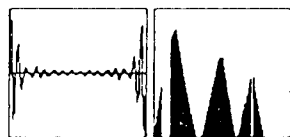
174. HARP



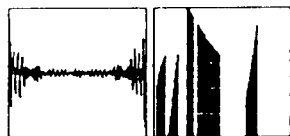
175. KOTO



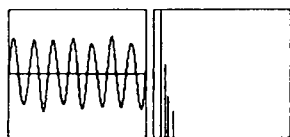
176. SITAR



177. SITAR



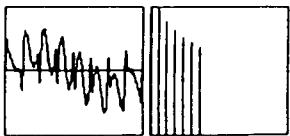
178. KALIMBA



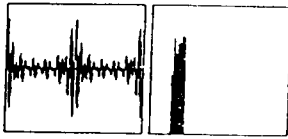
179. KALIMBA



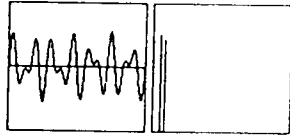
180. KALIMBA



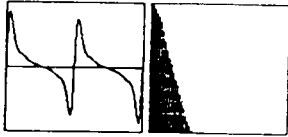
181. LOG DRUM



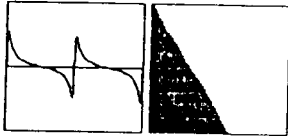
182. STEEL DRUM



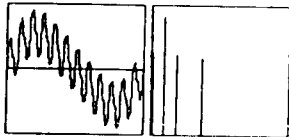
183. PIPE ORGAN 3



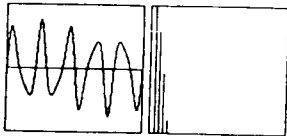
184. PIPE ORGAN 3



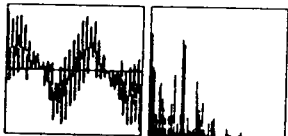
185. SYNTH 1



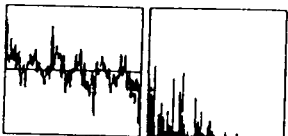
186. SYNTH 2



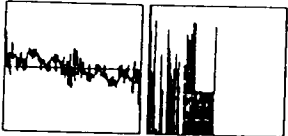
187. SYNTH 3



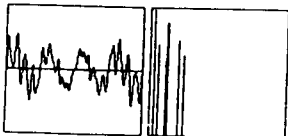
188. SYNTH 3



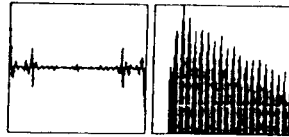
189. SYNTH 4



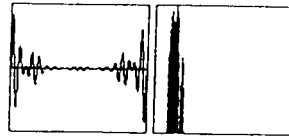
190. SYNTH 4



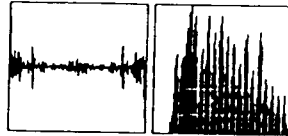
191. CLAVI



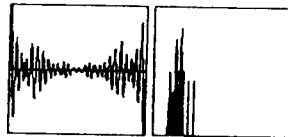
192. DIGI BASS 1



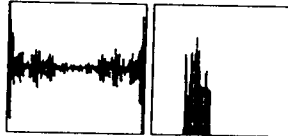
193. DIGI BASS 1



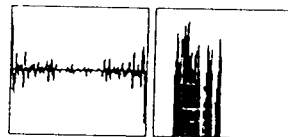
194. PICK BASS



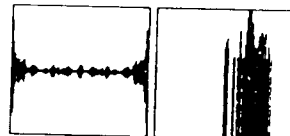
195. PICK BASS



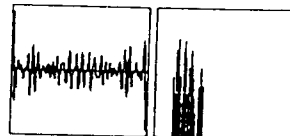
196. ROUND BASS



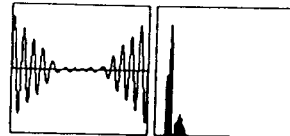
197. ROUND BASS



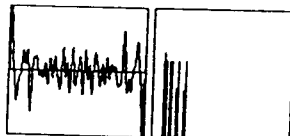
198. HARMONICA



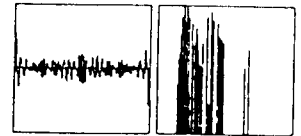
199. HARMONICA



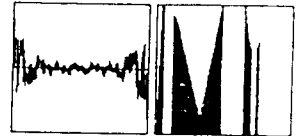
200. HARP



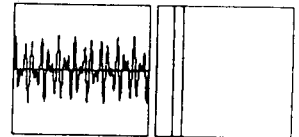
201. KOTO



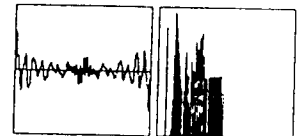
202. SITAR



203. MARIMBA



204. SYNTH 1





<ONE SHOT>	223. STRING SUS	241. F. GUITAR LOOP
205. BASS DRUM	224. PIZZICATO	242. PULL BASS LOOP
206. Ac SNARE	225. PIANO	<OMNIBUS LOOP>
207. TIGHT SNARE	226. EL. GRAND	243. OMNIBUS LOOP 1
208. E. SNARE	227. PIANO NOISE	244. OMNIBUS LOOP 2
209. RIM	228. TRUMPET	245. OMNIBUS LOOP 3
210. Ac TOM	229. SHAKUHACHI ATTACK	246. OMNIBUS LOOP 4
211. H. HAT	230. SHAKUHACHI SUS	247. OMNIBUS LOOP 5
212. CRASH	231. PAN FLUTE ATTACK	248. OMNIBUS LOOP 6
213. RIDE	232. PAN FLUTE SUS	249. OMNIBUS LOOP 7
214. STRAT GUITAR	233. VOICE	250. OMNIBUS LOOP 8
215. FUZZ MUTE	234. WHITE NOISE	<REVERSE>
216. A. GUITAR	<LOOP>	251. Ac SNARE REV
217. F. GUITAR	235. STRING LOOP	252. Ac TOM REV
218. GUITAR HARMO	236. SHAKUHACHI LOOP	253. F. GUITAR REV
219. PULL BASS	237. PAN FLUTE LOOP	<ALTERNATE>
220. BASS HARMO	238. VOICE LOOP	254. H. HAT ALT
221. BOWED STRING	239. WHITE NOISE LOOP	255. CRASH ALT
222. STRING ATTACK	240. Ac SNARE LOOP	256. PIANO NOISE ALT

**DIGITAL SYNTHESIZER**

# **K1II**

## **MIDI DATA FORMAT**

### **CONTENTS**

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### 4-3 ALL SINGLE DATA DUMP

This message is transmitted when MIDI DATA DUMP=BLOCK, or when "ALL BLOCK REQUEST (single)" is received. The 32 patches data are transmitted at once. So, there are 4 kinds of block data, all I, i, E, e. Followings is the example of all I(=INT) block.

See SINGLE DATA LIST regarding the data.

Status	11110000	F0H	System exclusive
Kawai ID no.	01000000	40H	
Channel no.	0000nnnn	0nH	
Function no.	00100001	21H	All block data dump
Group no.	00000000	00H	Synthesizer group
Machine ID no.	00000010	03H	K1II ID. no.
Sub command 1	0000000a		a 0=int, 1=ext
Sub command 2	00xx0000		0=i or E, 20H=i or e

Data	0xxxxxxx	A-1 s0 data	} A-1 patch data
Data	0xxxxxxx	A-1 s1 data	
Data	0xxxxxxx	A-1 s2 data	
Data	0xxxxxxx	A-1 s3 data	
.	.	.	
Data	0xxxxxxx	A-1 s84 data	} A-1 patch data
Data	0xxxxxxx	A-1 s85 data	
Data	0xxxxxxx	A-1 s86 data	
Data	0xxxxxxx	A-1 s87 data	
.	.	.	
Data	0xxxxxxx	A-2 s0 data	} A-2 patch data
Data	0xxxxxxx	A-2 s1 data	
Data	0xxxxxxx	A-2 s2 data	
Data	0xxxxxxx	A-2 s3 data	
.	.	.	
Data	0xxxxxxx	A-2 s84 data	} A-2 patch data
Data	0xxxxxxx	A-2 s85 data	
Data	0xxxxxxx	A-2 s86 data	
Data	0xxxxxxx	A-2 s87 data	
.	.	.	
A-3 patch data			
A-4 patch data			
A-5 patch data			
A-6 patch data			
A-7 patch data			
A-8 patch data			
B-1 patch data			
B-2 patch data			
.	.	.	
.	.	.	
D-6 patch data			
D-7 patch data			
Data	0xxxxxxx	D-8 s0 data	} D-8 patch data
Data	0xxxxxxx	D-8 s1 data	
Data	0xxxxxxx	D-8 s2 data	
Data	0xxxxxxx	D-8 s3 data	
.	.	.	
Data	0xxxxxxx	D-8 s84 data	} D-8 patch data
Data	0xxxxxxx	D-8 s85 data	
Data	0xxxxxxx	D-8 s86 data	
Data	0xxxxxxx	D-8 s87 data	
EOX	11110111	F7H	

### 4-4 ALL MULTI DATA DUMP

This message is transmitted when MIDI DATA DUMP=BLOCK, or when "ALL BLOCK REQUEST (multi)" is received. The 32 patches data are transmitted at once. So, there are 2 kinds of block data, all I, E. Followings is the example of all I(=INT) block.

See SINGLE DATA LIST regarding the data.

Status	11110000	F0H	System exclusive
Kawai ID no.	01000000	40H	
Channel no.	0000nnnn	0nH	
Function no.	00100001	21H	All block data dump
Group no.	00000000	00H	Synthesizer group
Machine ID no.	00000010	03H	K1II ID. no.
Sub command 1	0000000a		a 0=int, 1=ext
Sub command 2	01000000	40H	Multi

Data	0xxxxxxx	A-1 M0 data	} A-1 patch data
Data	0xxxxxxx	A-1 M1 data	
Data	0xxxxxxx	A-1 M2 data	
Data	0xxxxxxx	A-1 M3 data	
.	.	.	
Data	0xxxxxxx	A-1 M72 data	} A-1 patch data
Data	0xxxxxxx	A-1 M73 data	
Data	0xxxxxxx	A-1 M74 data	
Data	0xxxxxxx	A-1 M75 data	
.	.	.	
Data	0xxxxxxx	A-2 M0 data	} A-2 patch data
Data	0xxxxxxx	A-2 M1 data	
Data	0xxxxxxx	A-2 M2 data	
Data	0xxxxxxx	A-2 M3 data	
.	.	.	
Data	0xxxxxxx	A-2 M72 data	} A-2 patch data
Data	0xxxxxxx	A-2 M73 data	
Data	0xxxxxxx	A-2 M74 data	
Data	0xxxxxxx	A-2 M75 data	
.	.	.	
A-3 patch data			
A-4 patch data			
A-5 patch data			
A-6 patch data			
A-7 patch data			
A-8 patch data			
B-1 patch data			
B-2 patch data			
.	.	.	
.	.	.	
D-6 patch data			
D-7 patch data			
Data	0xxxxxxx	D-8 M0 data	} D-8 patch data
Data	0xxxxxxx	D-8 M1 data	
Data	0xxxxxxx	D-8 M2 data	
Data	0xxxxxxx	D-8 M3 data	
.	.	.	
Data	0xxxxxxx	D-8 M72 data	} D-8 patch data
Data	0xxxxxxx	D-8 M73 data	
Data	0xxxxxxx	D-8 M74 data	
Data	0xxxxxxx	D-8 M75 data	
EOX	11110111	F7H	

### 4-5 WRITE COMPLETE

When the received Single or Multi data has been completely written, the K1II transmits this message.

Status	11110000	F0H	System exclusive
Kawai ID no.	01000000	40H	
Channel no.	0000nnnn	0nH	
Function no.	01000000	40H	Write complete
Group no.	00000000	00H	Synthesizer group
Machine ID no.	00000011	03H	K1II ID. no.
EOX	11110111	F7H	

### 4-6 WRITE ERROR

If illegal data is found in the received Single or Multi data, the K1II transmits this message.

Status	11110000	F0H	System exclusive
Kawai ID no.	01000000	40H	
Channel no.	0000nnnn	0nH	
Function no.	010000xx	41H	Write error
		42H	Write error (protect)
		43H	Write error (no card)
Group no.	00000000	00H	Synthesizer group
Machine ID no.	00000011	03H	K1II ID. no.
EOX	11110111	F7H	

### 4-7 MACHINE ID ACKNOWLEDGE

This message is transmitted when the K1II receives MACHINE ID REQUEST.

Status	11110000	F0H	System exclusive
Kawai ID no.	01000000	40H	
Channel no.	0000nnnn	0nH	
Function no.	01100001	61H	Machine ID acknowledge
Group no.	00000000	00H	Synthesizer group
Machine ID no.	00000011	03H	K1II ID. no.
EOX	11110111	F7H	



5-7 ALL MULTI DATA DUMP

Followings are the example of all I(=INT) block data dump.  
See MULTI DATA LIST regarding the data.

Status	11110000	F0H	System exclusive
Kawai ID no.	01000000	40H	
Channel no.	0000nnnn	0nH	
Function no.	00100001	21H	All block data dump
Group no.	00000000	00H	Synthesizer group
Machine ID no.	00000010	03H	K1II ID. no.
Sub command 1	0000000a		a=0=int, 1=ext
Sub command 2	01000000	40H	Multi
Data	0xxxxxxx		A-1 M0 data
Data	0xxxxxxx		A-1 M1 data
Data	0xxxxxxx		A-1 M2 data
Data	0xxxxxxx		A-1 M3 data
.	.		
.	.		
.	.		
Data	0xxxxxxx		A-1 M72 data
Data	0xxxxxxx		A-1 M73 data
Data	0xxxxxxx		A-1 M74 data
Data	0xxxxxxx		A-1 M75 data
.	.		
.	.		
.	.		
Data	0xxxxxxx		A-2 M0 data
Data	0xxxxxxx		A-2 M1 data
Data	0xxxxxxx		A-2 M2 data
Data	0xxxxxxx		A-2 M3 data
.	.		
.	.		
.	.		
Data	0xxxxxxx		A-2 M72 data
Data	0xxxxxxx		A-2 M73 data
Data	0xxxxxxx		A-2 M74 data
Data	0xxxxxxx		A-2 M75 data
.	.		
.	.		
.	.		
A-3 patch data			
A-4 patch data			
A-5 patch data			
A-6 patch data			
A-7 patch data			
A-8 patch data			
B-1 patch data			
B-2 patch data			
.	.		
.	.		
D-6 patch data			
D-7 patch data			
Data	0xxxxxxx		D-8 M0 data
Data	0xxxxxxx		D-8 M1 data
Data	0xxxxxxx		D-8 M2 data
Data	0xxxxxxx		D-8 M3 data
.	.		
.	.		
.	.		
Data	0xxxxxxx		D-8 M72 data
Data	0xxxxxxx		D-8 M73 data
Data	0xxxxxxx		D-8 M74 data
Data	0xxxxxxx		D-8 M75 data
EOX	11110111	F7H	

5-8 WRITE COMPLETE

Status	11110000	F0H	System exclusive
Kawai ID no.	01000000	40H	
Channel no.	0000nnnn	0nH	
Function no.	01000000	40H	Write complete
Group no.	00000000	00H	Synthesizer group
Machine ID no.	00000001	03H	K1II ID. no.
EOX	11110111	F7H	

5-9 WRITE ERROR

Status	11110000	F0H	System exclusive
Kawai ID no.	01000000	40H	
Channel no.	0000nnnn	0nH	
Function no.	010000xx	41H	Write error
		42H	Write error (protect)
		43H	Write error (no card)
Group no.	00000000	00H	Synthesizer group
Machine ID no.	00000011	03H	K1II ID. no.
EOX	11110111	F7H	

5-10 MACHINE ID REQUEST

After receiving this message, the K1II transmits "ID ACKNOWLEDGE".

Status	11110000	F0H	System exclusive
Kawai ID no.	01000000	40H	
Channel no.	0000nnnn	0nH	
Function no.	01100000	60H	Machine ID Request
EOX	11110111	F7H	

6. SINGLE DATA LIST

<COMMON>		Parameter		Description
No.	Byte	No.	parameter	
s0	0nnnnnnn	4	Name 1	Ascii
s1	0nnnnnnn	5	Name 2	—
s2	0nnnnnnn	6	Name 3	—
s3	0nnnnnnn	7	Name 4	—
s4	0nnnnnnn	8	Name 5	—
s5	0nnnnnnn	9	Name 6	—
s6	0nnnnnnn	10	Name 7	—
s7	0nnnnnnn	11	Name 8	—
s8	0nnnnnnn	12	Name 9	—
s9	0nnnnnnn	13	Name 10	—
s10	0vvvvvvv	3	Volume	0 ~ 99/1 ~ 100
s11	aa	27	Poly mode	0/PL1, 1/PL2, 2/solo
		14	Sources 2/4	0/2, 1/4
	cc	36	am S1, S2	0/off, 1/2 ~ 1, 2/rev
	Odd	37	am S3, S4	0/off, 1/4 ~ 3, 2/rev
s12	0ppppppp	24	prs>freq	0 ~ 100 (-50 ~ +50)
s13	0ddddd	15	Vibrato dep	0 ~ 100 (-50 ~ +50)
s14	0aaaaaaa	18	vib pres>vib	0 ~ 100 (-50 ~ +50)
s15	0000pppp	25	Pitch bend	0 ~ 12
s16	01111111	16	Ifo speed	0 ~ 100
s17	ss	17	Ifo shape	0/tri, 1/saw, 2/sqr, 3/rnd
	ccc	26	ks curve	0 ~ 4/1 ~ 5
	0vw	19	vib wheel	0/dep, 1/spd
s18	0aaaaaaaa	20	Auto bend depth	0 ~ 100 (-50 ~ +50)
s19	0ttttttt	21	Auto bend time	0 ~ 100
s20	0vvvvvvv	22	Auto bend vel>dep	0 ~ 100 (-50 ~ +50)
s21	0kkkkkkk	23	Auto bend ks>time	0 ~ 100 (-50 ~ +50)
s22			S1 mute	0/mute, 1/not mute
			S2 mute	0/mute, 1/not mute
			S3 mute	0/mute, 1/not mute
	b		S4 mute	0/mute, 1/not mute
	c			
	0000d			
<SOURCES>				
s23	0ffffff	30	S1 fine	0 ~ 100 (-50 ~ +50)
s24	—	—	S2	—
s25	—	—	S3	—
s26	—	—	S4	—
s27	0ccccccc	28/29	S1 coarse/fix key	Coarse 60 ~ 108/s24 Fix 0 ~ 127/C4 ~ G6
s28	—	—	S2	—
s29	—	—	S3	—
s30	—	—	S4	—
s31	0vvvvvvvv	35	S1 wave select 1	0 ~ 127
s32	—	—	S2	—
s33	—	—	S3	—
s34	—	—	S4	—
s35			S1 wave select n	msb_xvvvvvvvv 0 ~ 255/1 ~ 256
	x	35	S1 key track	0/off, 1/on
	k	31	S1 vib/a. bend	0/off, 1/on
	v	32	S1 prs> frq	0/off, 1/on
	p	33	S1 vel curve	0 ~ 7/1 ~ 8
s36	0vvv	47	S2	—
s37	—	—	S3	—
s38	—	—	S4	—
s39	0eeeeeee	41	S1 envelope level	0 ~ 100
s40	—	—	S2	—
s41	—	—	S3	—
s42	—	—	S4	—
s43	0eeeeeee	42	S1 envelope delay	0 ~ 100
s44	—	—	S2	—
s45	—	—	S3	—
s46	—	—	S4	—
s47	0eeeeeee	43	S1 envelope attack	0 ~ 100
s48	—	—	S2	—
s49	—	—	S3	—
s50	—	—	S4	—
s51	0eeeeeee	44	S1 envelope decay	0 ~ 100
s52	—	—	S2	—
s53	—	—	S3	—
s54	—	—	S4	—
s55	0eeeeeee	45	S1 envelope sustain	0 ~ 100
s56	—	—	S2	—
s57	—	—	S3	—
s58	—	—	S4	—
s59	0eeeeeee	46	S1 envelope release	0 ~ 100
s60	—	—	S2	—
s61	—	—	S3	—
s62	—	—	S4	—
s63	0ddddd	48	S1 level mod vel	0 ~ 100 (-50 ~ +50)
s64	—	—	S2	—
s65	—	—	S3	—
s66	—	—	S4	—
s67	0eeeeeee	49	S1 level mod prs	0 ~ 100 (-50 ~ +50)
s68	—	—	S2	—
s69	—	—	S3	—
s70	—	—	S4	—
s71	0eeeeeee	50	S1 level mod ks	0 ~ 100 (-50 ~ +50)
s72	—	—	S2	—
s73	—	—	S3	—
s74	—	—	S4	—
s75	0eeeeeee	51	S1 time mod vel	0 ~ 100 (-50 ~ +50)
s76	—	—	S2	—
s77	—	—	S3	—
s78	—	—	S4	—
s79	0eeeeeee	52	S1 time mod ks	0 ~ 100 (-50 ~ +50)
s80	—	—	S2	—
s81	—	—	S3	—
s82	—	—	S4	—
s83	0eeeeeee	34	S1 freq ks>freq	0 ~ 100 (-50 ~ +50)
s84	—	—	S2	—
s85	—	—	S3	—
s86	—	—	S4	—
s87	0ddddd		Check sum	0 ~ 127

Notes:  
Check sum value (s87) is the sum of the A5H and s0 ~ s86, and bit 7 must be clear.

## 7. MULTI DATA LIST

No.	Byte	Parameter	Description
<MULTI COMMON>			
M0	0nnnnnnn	Name 1	Ascii
M1	0nnnnnnn	Name 2	-
M2	0nnnnnnn	Name 3	-
M3	0nnnnnnn	Name 4	-
M4	0nnnnnnn	Name 5	-
M5	0nnnnnnn	Name 6	-
M6	0nnnnnnn	Name 7	-
M7	0nnnnnnn	Name 8	-
M8	0nnnnnnn	Name 9	-
M9	0nnnnnnn	Name 10	-
M10	0vvvvvvv	Volume	0 ~ 99/1 ~ 100
<SECTION 1>			
M11	aaa	Single no.	0 ~ 7/1 ~ 8
	00bbb	Single no.	0 ~ 7/A ~ d
M12	0zzzzzzz	Zone low	0 ~ 127
M13	0hhhhhhh	Zone high	0 ~ 127
M14	pppp	Poly	0/vr, 1 ~ 9/0 ~ 8
	aa	Output	0/r, 1/l+r, 2/l, 3/byps
	0m	Mode LSB	
M15	On	Mode MSB	nm 0/kybd, 1/midi, 2/mix
	rrrr	rcv ch	0 ~ 15/1 ~ 16
	vv	velo sw	0/all, 1/soft, 2/loud
M16	00tttttt	Transpose	0 ~ 48/0 ~ ±24
M17	0uuuuuuu	Tune	0 ~ 100 (-50 ~ +50)
M18	0eeeeeee	Level	0 ~ 100
<SECTION 2>			
M19	aaa	Single no.	0 ~ 7/1 ~ 8
	00bbb	Single no.	0 ~ 7/A ~ d
M20	0zzzzzzz	Zone low	0 ~ 127
M21	0hhhhhhh	Zone high	0 ~ 127
M22	pppp	Poly	0/vr, 1 ~ 9/0 ~ 8
	aa	Output	0/r, 1/l+r, 2/l, 3/byps
	0m	Mode LSB	
M23	On	Mode MSB	nm 0/kybd, 1/midi, 2/mix
	rrrr	rcv ch	0 ~ 15/1 ~ 16
	vv	velo sw	0/all, 1/soft, 2/loud
M24	00tttttt	Transpose	0 ~ 48/0 ~ ±24
M25	0uuuuuuu	Tune	0 ~ 100 (-50 ~ +50)
M26	0eeeeeee	Level	0 ~ 100
<SECTION 3>			
M27 ~ M34			
<SECTION 4>			
M35 ~ M42			
<SECTION 5>			
M43 ~ M50			
<SECTION 6>			
M51 ~ M58			
<SECTION 7>			
M59 ~ M66			
<SECTION 8>			
M67	aaa	Single no.	0 ~ 7/1 ~ 8
	00bbb	Single no.	0 ~ 7/A ~ d
M68	0zzzzzzz	Zone low	0 ~ 127
M69	0hhhhhhh	Zone high	0 ~ 127
M70	pppp	Poly	0/vr, 1 ~ 9/0 ~ 8
	aa	Output	0/r, 1/l+r, 2/l, 3/byps
	0m	Mode LSB	
M71	On	Mode MSB	nm 0/kybd, 1/midi, 2/mix
	rrrr	rcv ch	0 ~ 15/1 ~ 16
	vv	velo sw	0/all, 1/soft, 2/loud
M72	00tttttt	Transpose	0 ~ 48/0 ~ ±24
M73	0uuuuuuu	Tune	0 ~ 100 (-50 ~ +50)
M74	0eeeeeee	Level	0 ~ 100
M75	0ccccccc	Check sum	0 ~ 127

Note:

The check sum value (M75) is the sum of A5H and M0 ~ M74, and bit 7 must be clear.

### 8. EXCLUSIVE FUNCTION TABLE

FUNCTION	FUNCTION NO.	SUB CMND 1	SUB CMND 2	DESCRIPTION	TRS	RCV
One Patch Data Request	0 (00H)	0	0 ~ 63	ONE INT SINGLE DATA REQUEST	X	O
		0	64 ~ 95	ONE INT MULTI DATA REQUEST	X	O
		1	0 ~ 63	ONE EXT SINGLE DATA REQUEST	X	O
		1	64 ~ 95	ONE EXT MULTI DATA REQUEST	X	O
All Patch Data Request	1 (01H)	0	0	ALL INT SINGLE DATA REQUEST	X	O
		0	32	ALL int SINGLE DATA REQUEST	X	O
		0	64	ALL INT MULTI DATA REQUEST	X	O
		1	0	ALL EXT SINGLE DATA REQUEST	X	O
		1	32	ALL ext SINGLE DATA REQUEST	X	O
		1	64	ALL EXT MULTI DATA REQUEST	X	O
Parameter send	16 (10H)	0pppppp	0000ssd	SINGLE PARAMETER pppppp 0 ~ 127 parameter no. ss 0/s1 OR COMMON 1/s2, 2/s3, 3/s4 d MSB of data	X	O
One Patch Data Dump	32 (20H)	0	0 ~ 63	ONE INT SINGLE DATA DUMP	O	O
		0	64 ~ 95	ONE INT MULTI DATA DUMP	O	O
		1	0 ~ 63	ONE EXT SINGLE DATA DUMP	O	O
		1	64 ~ 95	ONE EXT MULTI DATA DUMP	O	O
All Patch Data Dump	33 (21H)	0	0	ALL INT SINGLE DATA DUMP	O	O
		0	32	ALL int SINGLE DATA DUMP	O	O
		0	64	ALL INT MULTI DATA DUMP	O	O
		1	0	ALL EXT SINGLE DATA DUMP	O	O
		1	32	ALL ext SINGLE DATA DUMP	O	O
		1	64	ALL EXT MULTI DATA DUMP	O	O
Write Complete	64 (40H)	-	-		O	O
Write Error	65 (41H)	-	-		O	O
Write Error (Protect)	66 (42H)	-	-		O	O
Write Error (No Card)	67 (43H)	-	-		O	O
Machine ID Request	96 (60H)	-	-		X	O
Machine ID Acknowledge	97 (61H)	-	-		O	X

### 9. PROGRAM NO. CONVERT TABLE

#### SINGLE

INT/EXT								int/ext									
	A		B		C		D			A		B		C		D	
1	0	00H	8	08H	16	10H	24	18H	32	20H	40	28H	48	30H	56	38H	
2	1	01H	9	09H	17	11H	25	19H	33	21H	41	29H	49	31H	57	39H	
3	2	02H	10	0AH	18	12H	26	1AH	34	22H	42	2AH	50	32H	58	3AH	
4	3	03H	11	0BH	19	13H	27	1BH	35	23H	43	2BH	51	33H	59	3BH	
5	4	04H	12	0CH	20	14H	28	1CH	36	24H	44	2CH	52	34H	60	3CH	
6	5	05H	13	0DH	21	15H	29	1DH	37	25H	45	2DH	53	35H	61	3DH	
7	6	06H	14	0EH	22	16H	30	1EH	38	26H	46	2EH	54	36H	62	3EH	
8	7	07H	15	0FH	23	17H	31	1FH	39	27H	47	2FH	55	37H	63	3FH	

#### MULTI

INT/EXT								
	A		B		C		D	
1	64	40H	72	48H	80	50H	88	58H
2	65	41H	73	49H	91	51H	89	59H
3	66	42H	74	4AH	82	52H	90	5AH
4	67	43H	75	4BH	83	53H	91	5BH
5	68	44H	76	4CH	84	54H	92	5CH
6	69	45H	77	4DH	85	55H	93	5DH
7	70	46H	78	4EH	86	56H	94	5EH
8	71	47H	79	4FH	87	57H	95	5FH

#### EFFECT

INT/EXT								
MODE			MODE			MODE		
1	96	60H	9	104	68H			
2	97	61H	10	105	69H			
3	98	62H	11	106	6AH			
4	99	63H	12	107	6BH			
5	100	64H	13	108	6CH			
6	101	65H	14	109	6DH			
7	102	66H	15	110	6EH			
8	103	67H	16	111	6FH			

Note: Receiving program no.112~ 127, the K1II treats same as 96~ 111.