

KAWAI

DIGITAL SYNTHESIZER (MODULE)

K1/K1m WAVE LIST

CONTENTS

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.

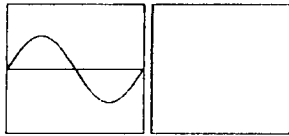
E) HI FREQUENCY RANGE GROUP

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

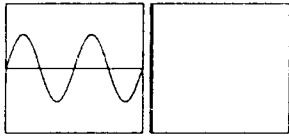
F) PCM WAVE GROUP

- 205~234 : ONE SHOT
- 235~242 : LOOP
- 243~250 : OMINIBUS LOOP
- 251~253 : REVERSE
- 254~256 : ALTERNATE

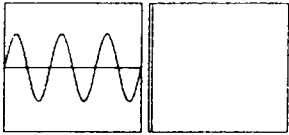
1. SIN 1st



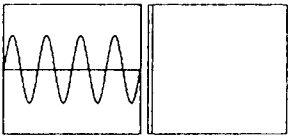
2. SIN 2nd



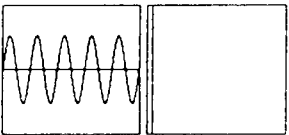
3. SIN 3rd



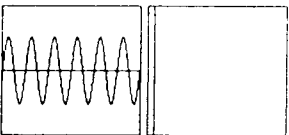
4. SIN 4th



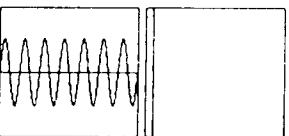
5. SIN 5th



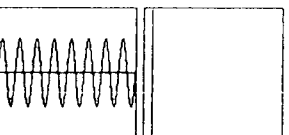
6. SIN 6th



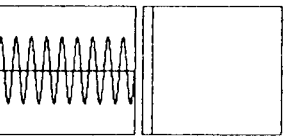
7. SIN 7th



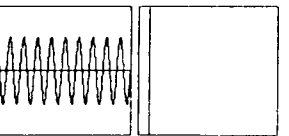
8. SIN 8th



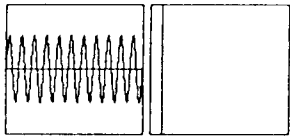
9. SIN 9th



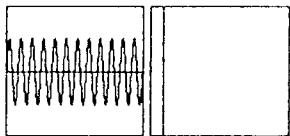
10. SIN 10th



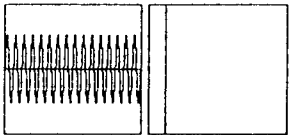
11. SIN 11th



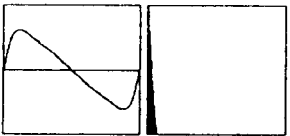
12. SIN 12th



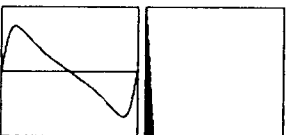
13. SIN 16th



14. SAW 1



15. SAW 2



16. SAW 3



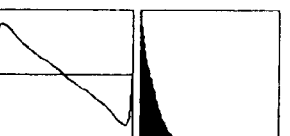
17. SAW 4



18. SAW 5



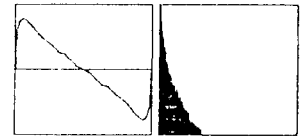
19. SAW 6



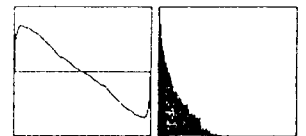
20. SAW 7



21. SAW 8



22. SAW 9



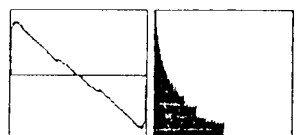
23. SAW 10



24. SAW 11



25. SAW 12



26. SAW 13



27. SAW 14



28. SAW 15



29. SAW 16



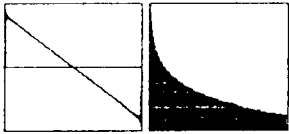
30. SAW 17



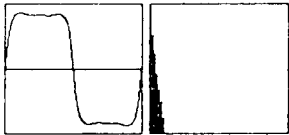
31. SAW 18



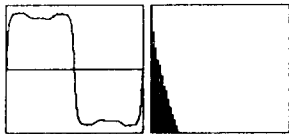
32. SAW 19



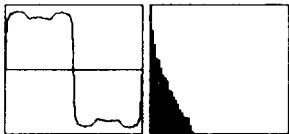
33. SQUARE 1



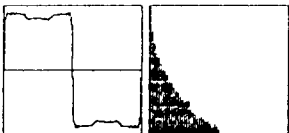
34. SQUARE 2



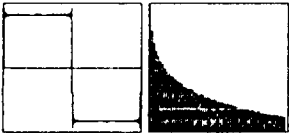
35. SQUARE 3



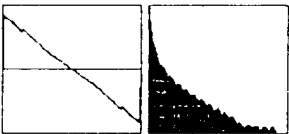
36. SQUARE 4



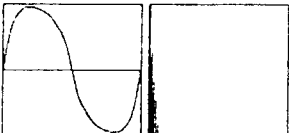
37. SQUARE 5



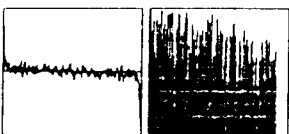
38. INVERSE-SAW



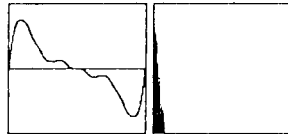
39. TRIANGLE



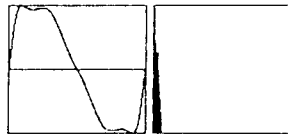
40. RANDOM



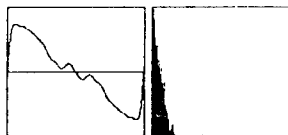
41. FRENCH HORN



42. STRING



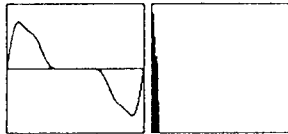
43. STRING



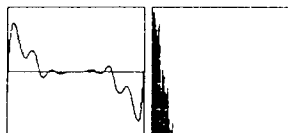
44. STRING PAD



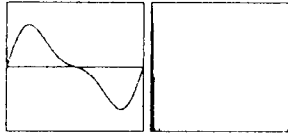
45. PIANO 1



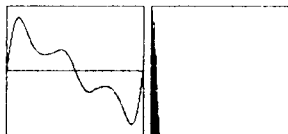
46. EL. GRAND



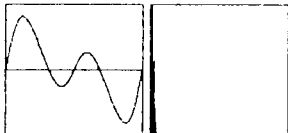
47. E. PIANO 1



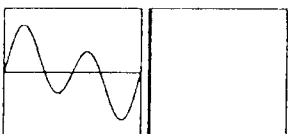
48. E. PIANO 2



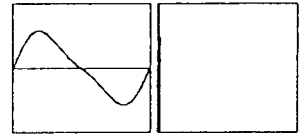
49. E. PIANO 3



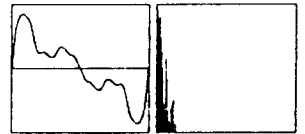
50. CLAVI



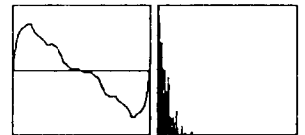
51. VIBE



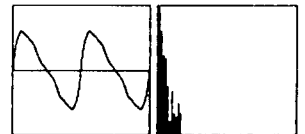
52. A. GUITAR



53. F. GUITAR



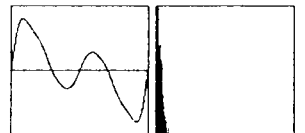
54. F. GUITAR



55. Ac BASS



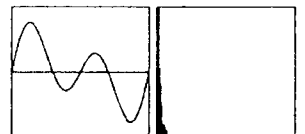
56. Ac BASS



57. DIGI BASS 1



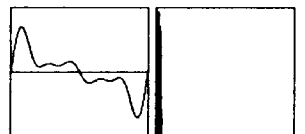
58. PICK BASS



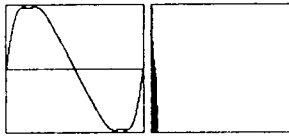
59. DIGI BASS 2



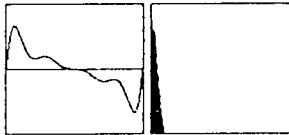
60. ROUND BASS



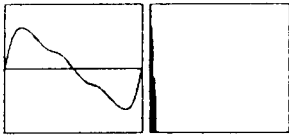
61. FRETLESS



62. FRETLESS



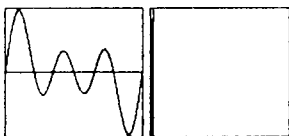
63. FLUTE



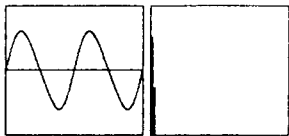
64. PANFLUTE



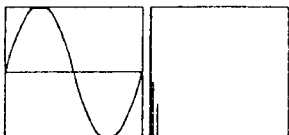
65. HARMONICA



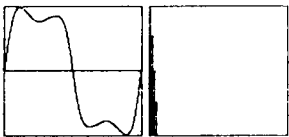
66. GLOCKEN



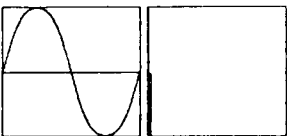
67. TINE



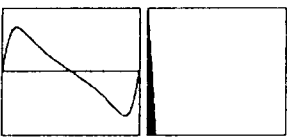
68. HARP



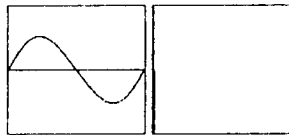
69. MARIMBA



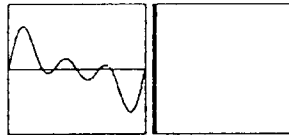
70. E. TOM



71. LOG DRUM



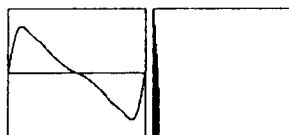
72. JAZZ ORGAN 1



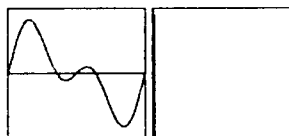
73. MELLO PAD



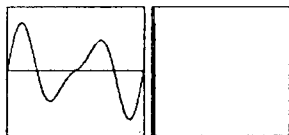
74. SYNTH SOLO



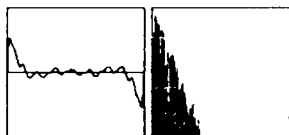
75. SYNTH 2



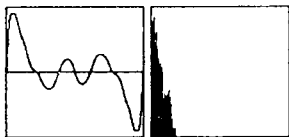
76. FRENCH HORN



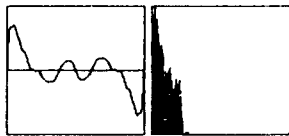
77. FRENCH HORN



78. BRASS



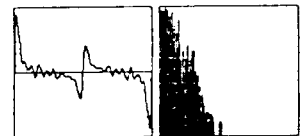
79. BRASS



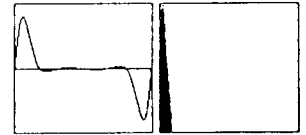
80. BRASS



81. BRASS



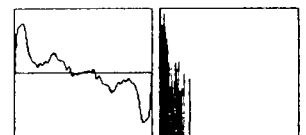
82. TRUMPET



83. TRUMPET



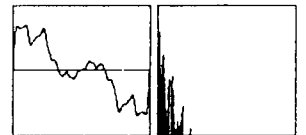
84. VIOLIN



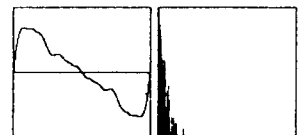
85. STRING



86. PIANO 1



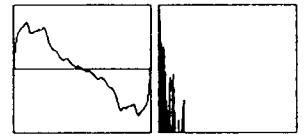
87. PIANO 2



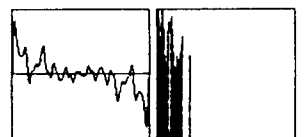
88. PIANO 3



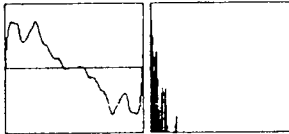
89. PIANO 2



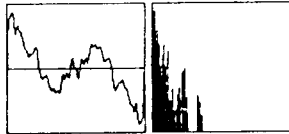
90. PIANO 3



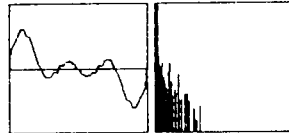
91. PIANO 4



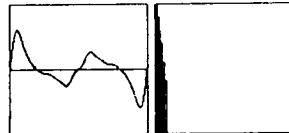
92. PIANO 4



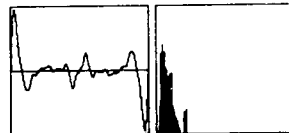
93. EL. GRAND



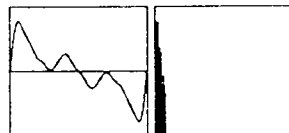
94. E. PIANO 1



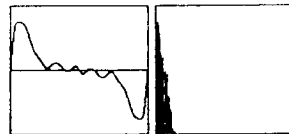
95. E. PIANO 2



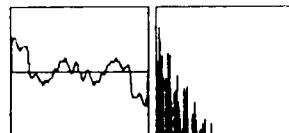
96. E. PIANO 2



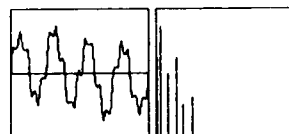
97. CLAVI



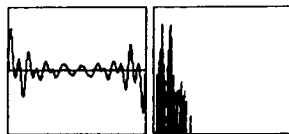
98. HARPSICHORD



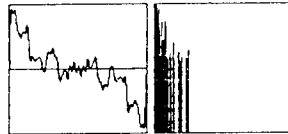
99. VIBE



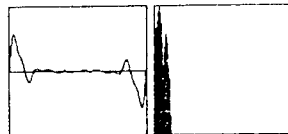
100. A. GUITAR



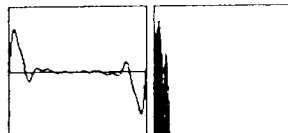
101. F. GUITAR



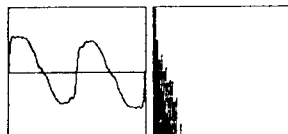
102. STRAT



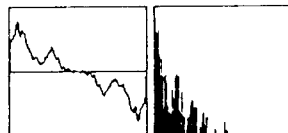
103. STRAT



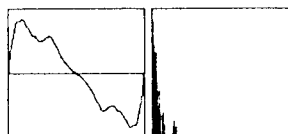
104. Ac BASS



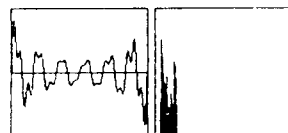
105. PULL BASS



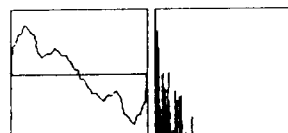
106. PULL BASS



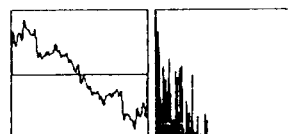
107. ROUND BASS



108. SLAP BASS



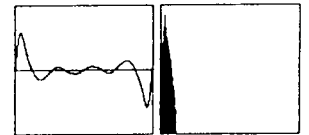
109. SLAP BASS



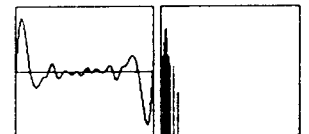
110. SLAP BASS



111. FRETLESS



112. FRETLESS



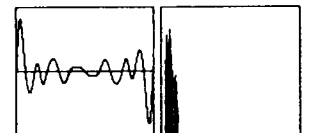
113. SYNTH BASS



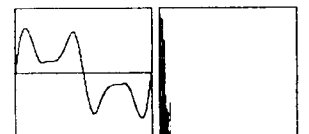
114. SYNTH BASS



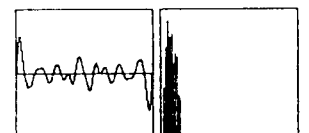
115. HARMONICA



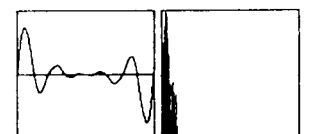
116. CLARINET



117. CLARINET



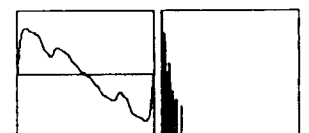
118. OBOE



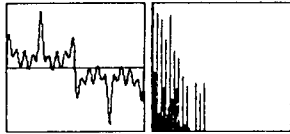
119. OBOE



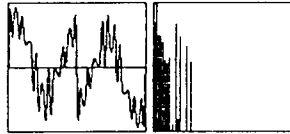
120. SHAKUHACHI



121. ORIENTAL BELL



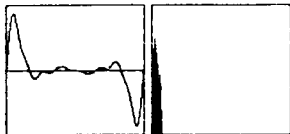
122. ORIENTAL BELL



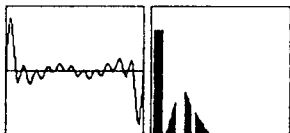
123. BELL



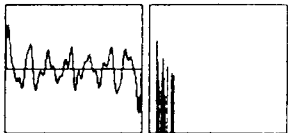
124. KOTO



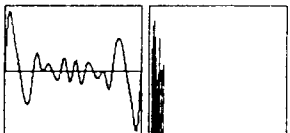
125. SITAR



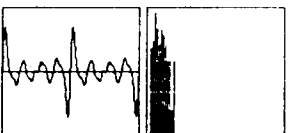
126. E. TOM



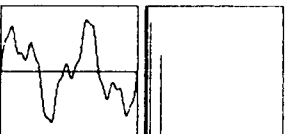
127. LOG DRUM



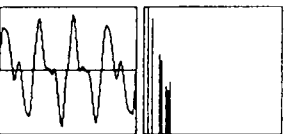
128. LOG DRUM



129. STEEL DRUM



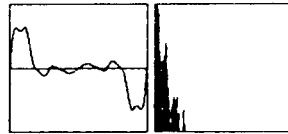
130. STEEL DRUM



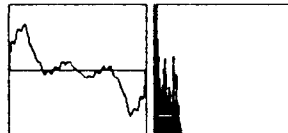
131. VOICE 1



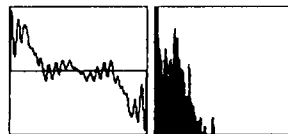
132. VOICE 2



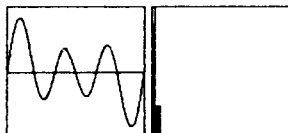
133. ACCORDION



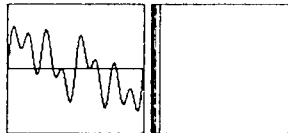
134. ACCORDION



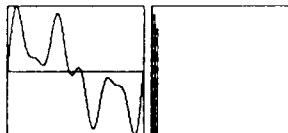
135. JAZZ ORGAN 2



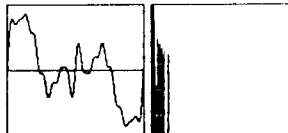
136. ROCK ORGAN 1



137. DRAW BAR 1



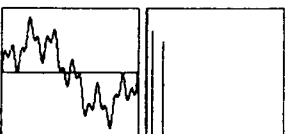
138. DRAW BAR 2



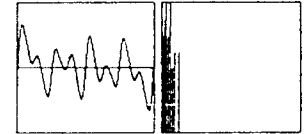
139. PIPE ORGAN 1



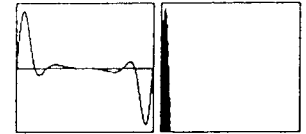
140. PIPE ORGAN 2



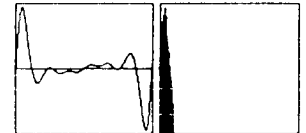
141. ROCK ORGAN 2



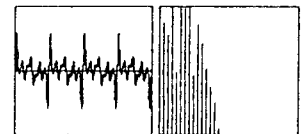
142. SYNTH SOLO



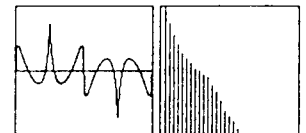
143. SYNTH SOLO



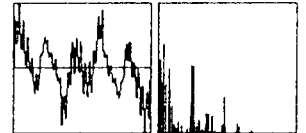
144. SYNTH 2



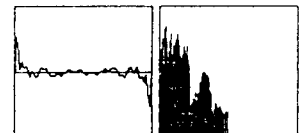
145. SYNTH 2



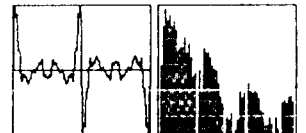
146. SYNTH 3



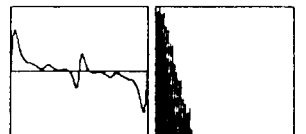
147. BRASS



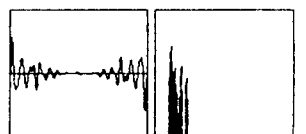
148. BRASS



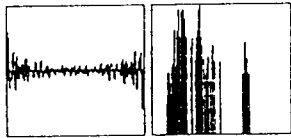
149. ORCHESTRA



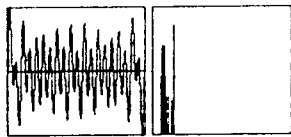
150. PIANO 1



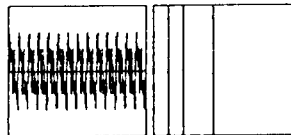
151. PIANO 4



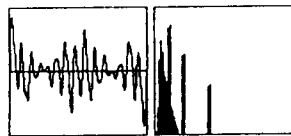
152. E. PIANO 1



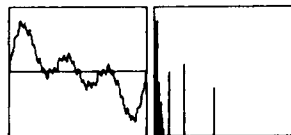
153. E. PIANO 1



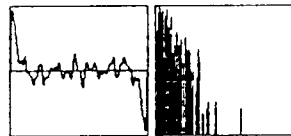
154. E. PIANO 2



155. E. PIANO 3



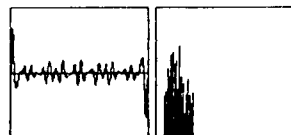
156. CLAVI



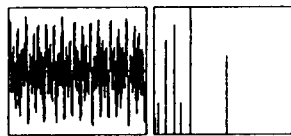
157. HARPSICHORD



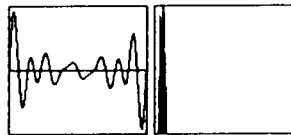
158. HARPSICHORD



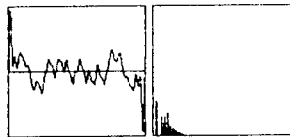
159. VIBE



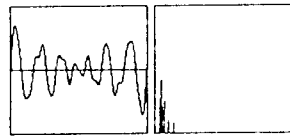
160. DIGI BASS 1



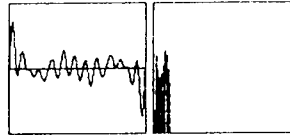
161. DIGI BASS 2



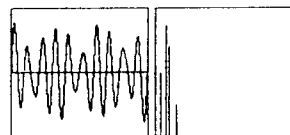
162. DIGI BASS 2



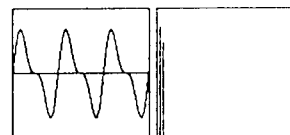
163. PICK BASS



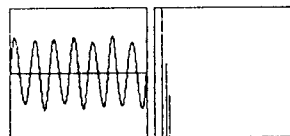
164. GLOCKEN



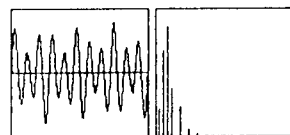
165. GLOCKEN



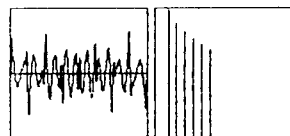
166. TINE



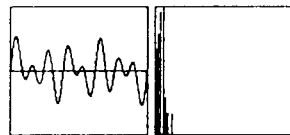
167. TINE



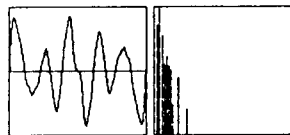
168. TINE



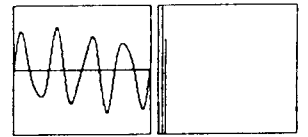
169. TUBE BELL



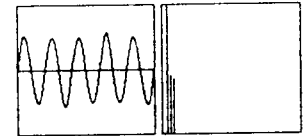
170. TUBE BELL



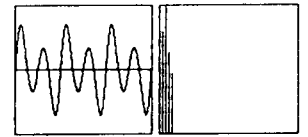
171. TUBE BELL



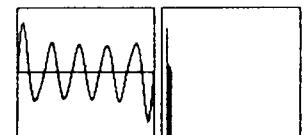
172. XYLOPHONE



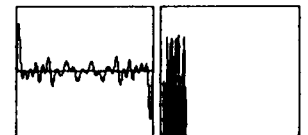
173. XYLOPHONE



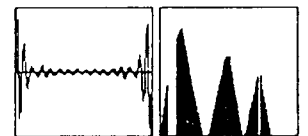
174. HARP



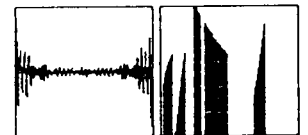
175. KOTO



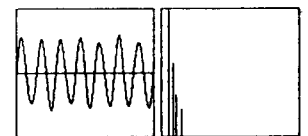
176. SITAR



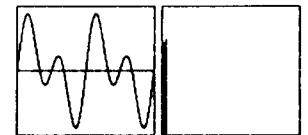
177. SITAR



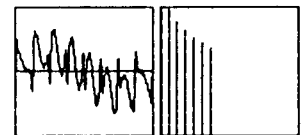
178. KALIMBA



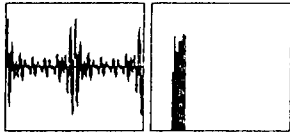
179. KALIMBA



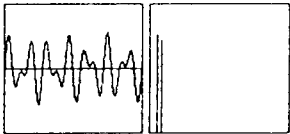
180. KALIMBA



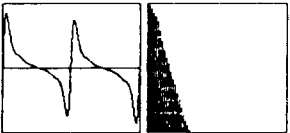
181. LOG DRUM



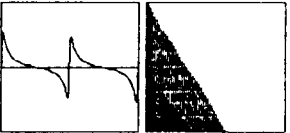
182. STEEL DRUM



183. PIPE ORGAN 3



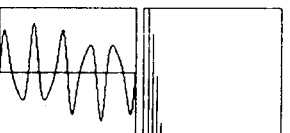
184. PIPE ORGAN 3



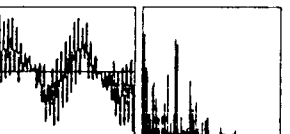
185. SYNTH 1



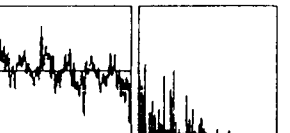
186. SYNTH 2



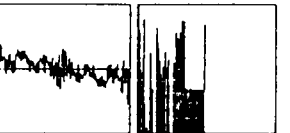
187. SYNTH 3



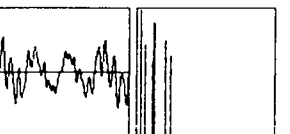
188. SYNTH 3



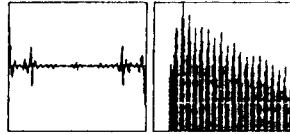
189. SYNTH 4



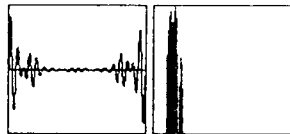
190. SYNTH 4



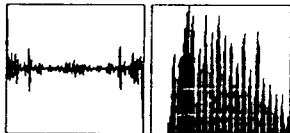
191. CLAVI



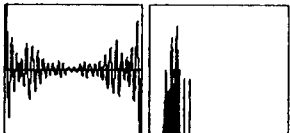
192. DIGI BASS 1



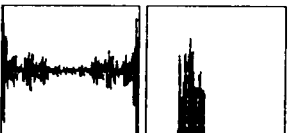
193. DIGI BASS 1



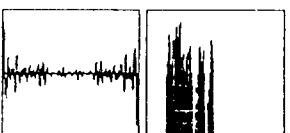
194. PICK BASS



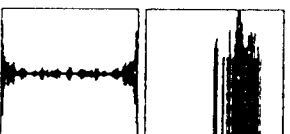
195. PICK BASS



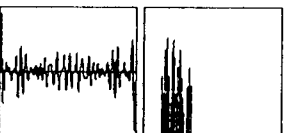
196. ROUND BASS



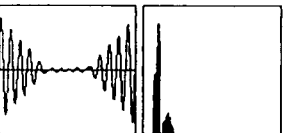
197. ROUND BASS



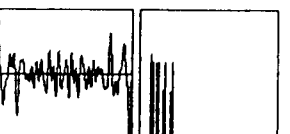
198. HARMONICA



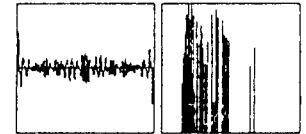
199. HARMONICA



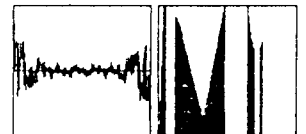
200. HARP



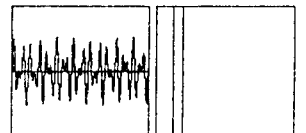
201. KOTO



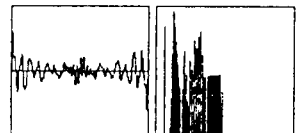
202. SITAR



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 (MODULE)

K1 / K1m

MIDI DATA FORMAT

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- 9. PROGRAM NO. CONVERT TABLE**

1. TRANSMITTED DATA

| 1st | 2nd | 3rd | Description | |
|----------|----------|----------|----------------|---|
| 1000nnnn | 0kkkkkkk | 01000000 | Note off | kkkkkkk = 24 ~ 108 |
| 1001nnnn | 0kkkkkkk | 0vvvvvvv | Note on | kkkkkkk = 24 ~ 108 vvvvvvv = 1 ~ 127 |
| 1011nnnn | 00000001 | 0vvvvvvv | Modulation | vvvvvvv = 0 ~ 127 |
| 1011nnnn | 00000110 | 0vvvvvvv | Data Entry | vvvvvvv = 0 ~ 127 |
| 1011nnnn | 01000000 | 0vvvvvvv | Hold 1 sw | vvvvvvv = 0 Off vvvvvvv = 127 On |
| 1011nnnn | 01100100 | 0vvvvvvv | RPC LSB | vvvvvvv = 0 Bender range vvvvvvv = 1 Fine tuning |
| 1011nnnn | 01100101 | 0vvvvvvv | RPC MSB | vvvvvvv = 0 |
| 1100nnnn | 0ppppppp | ----- | Program Change | ppppppp = 0 ~ 63 Single I/EA-1 ~ I/E iD-8 ppppppp = 64 ~ 95 Multi I/E A-1 ~ I/ED-8 |
| 1101nnnn | 0vvvvvvv | ----- | Ch. Pressure | vvvvvvv = 0 ~ 127 |
| 1110nnnn | 0b000000 | 0vvvvvvv | Pitch Bender | vvvvvvv=0 ~ 255 |
| 1011nnnn | 01111011 | 00000000 | All Notes off | |
| 11111110 | ----- | ----- | Active Sensing | |

nnnn = Channel no.
RPC Registered Parameter Control

2. RECOGNIZED RECEIVED DATA

| 1st | 2nd | 3rd | Description | |
|----------|----------|----------|----------------|--|
| 1000nnnn | 0kkkkkkk | 0vvvvvvv | Note off | kkkkkkk = 0 ~ 127 vvvvvvv = Ignored |
| 1001nnnn | 0kkkkkkk | 0vvvvvvv | Note on/off | kkkkkkk = 0 ~ 127 vvvvvvv = 1 ~ 127 Note on vvvvvvv = 0 Off |
| 1011nnnn | 00000001 | 0vvvvvvv | Modulation | vvvvvvv = 0 ~ 127 |
| 1011nnnn | 00000111 | 0vvvvvvv | Main Volume | vvvvvvv = 0 ~ 127 |
| 1011nnnn | 00000110 | 0vvvvvvv | Data Entry | vvvvvvv = 0 ~ 127 |
| 1011nnnn | 01000000 | 0vvvvvvv | Hold 1 sw | vvvvvvv = 0 ~ 63 Off vvvvvvv = 64 ~ 127 On |
| 1011nnnn | 01100100 | 0vvvvvvv | RPC LSB | vvvvvvv = 0 Bender range vvvvvvv = 1 Fine tuning |
| 1011nnnn | 01100101 | 0vvvvvvv | RPC MSB | vvvvvvv = 0 |
| 1100nnnn | 0ppppppp | ----- | Program Change | ppppppp = 0 ~ 63 Single I/EA-1 ~ I/ED-8 ppppppp = 64 ~ 95 Multi I/EA-1 ~ I/ED-8 |
| 1101nnnn | 0vvvvvvv | ----- | Ch. Pressure | vvvvvvv = 0 ~ 127 |
| 1110nnnn | 0b000000 | 0vvvvvvv | Pitch Bender | vvvvvvv=0 ~ 255 |
| 1011nnnn | 01111011 | 00000000 | All Notes off | |
| 1011nnnn | 01111100 | 00000000 | Omni off | |
| 1011nnnn | 01111101 | 00000000 | Omni on | |
| 11111110 | ----- | ----- | Active Sensing | |

nnnn = Channel no.
RPC Registered Parameter Control

3. EXCLUSIVE DATA FORMAT

Followings is the exclusive data format of the K1/K1m, and is based on the "KAWAI MIDI EXCLUSIVE FORMAT".

K1/K1m MIDI EXCLUSIVE FORMAT

| | | | |
|----------------|--------------|-----|-------------------|
| Status | 11110000 | F0H | System exclusive |
| Kawai ID no. | 01000000 | 40H | |
| Channel no. | 0000nnnn | 0nH | |
| Function no. | 0fffffff | 20H | |
| Group no. | 00000000 | 00H | Synthesizer group |
| Machine ID no. | 00000010 | 03H | K1/K1m ID. no. |
| Sub 1 | 0s s s s s s | 00H | Sub command 1 |
| Sub 2 | 0s s s s s s | 00H | Sub command 2 |
| Data | 0xxxxxxx | | |
| Data | 0xxxxxxx | | |
| Data | 0xxxxxxx | | |
| Data | 0xxxxxxx | | |
| Data | 0xxxxxxx | | |
| Data | 0xxxxxxx | | |
| EOX | 11110111 | F7H | |

The Exclusive data is received only when The system RCV EXCL=ON. The MACHINE ID REQUEST, having no Group no. and Machine no. message, is only concluded at the fourth byte followed by EOX.

Function number, Sub 1 and Sub 2 are listed in FUNCTION TABLE.

4. EXCLUSIVE TRANSMITTED DATA

4-1 ONE SINGLE DATA DUMP

This message is transmitted by the next 2 ways. First, transmits the patch data which is selected on the panel, according to the MIDI DATA DUMP parameter (=PACH). Second, after receiving the ONE BLOCK DATA REQ (single), the K1/K1m transmits the one patch data which is decided by it. See SINGLE DATA LIST regarding the data.

| | | | |
|----------------|----------|-----|-------------------------|
| Status | 11110000 | F0H | System exclusive |
| Kawai ID no. | 01000000 | 40H | |
| Channel no. | 0000nnnn | 0nH | |
| Function no. | 00100000 | 20H | One block data dump |
| Group no. | 00000000 | 00H | Synthesizer group |
| Machine ID no. | 00000010 | 03H | K1/K1m ID. no. |
| Sub command 1 | 0000000x | 00H | Internal |
| | | 01H | External |
| Sub command 2 | 0xxxxxxx | | 0 ~ 63 SINGLE A-1 ~ d-8 |
| Data | 0xxxxxxx | | Patch data s0 |
| Data | 0xxxxxxx | | Patch data s1 |
| Data | 0xxxxxxx | | Patch data s2 |
| Data | 0xxxxxxx | | |
| Data | 0xxxxxxx | | |
| Data | 0xxxxxxx | | Patch data s85 |
| Data | 0xxxxxxx | | Patch data s86 |
| Data | 0xxxxxxx | | Patch data s87 |
| EOX | 11110111 | F7H | |

4-2 ONE MULTI DATA DUMP

This message is transmitted by the next 2 ways. First, transmits the patch data which is selected on the panel, according to the MIDI DATA DUMP parameter (=PACH). Second, after receiving the ONE BLOCK DATA REQ (multi), the K1/K1m transmits the one patch data which is decided by it. See MULTI DATA LIST regarding the data.

| | | | |
|----------------|----------|-----|-------------------------|
| Status | 11110000 | F0H | System exclusive |
| Kawai ID no. | 01000000 | 40H | |
| Channel no. | 0000nnnn | 0nH | |
| Function no. | 00100000 | 20H | One block data dump |
| Group no. | 00000000 | 00H | Synthesizer group |
| Machine ID no. | 00000010 | 03H | K1/K1m ID. no. |
| Sub command 1 | 0000000x | 00H | Internal |
| | | 01H | External |
| Sub command 2 | 0xxxxxxx | | 64 ~ 95 MULTI A-1 ~ D-8 |
| Data | 0xxxxxxx | | Patch data M0 |
| Data | 0xxxxxxx | | Patch data M1 |
| Data | 0xxxxxxx | | Patch data M2 |
| Data | 0xxxxxxx | | |
| Data | 0xxxxxxx | | |
| Data | 0xxxxxxx | | Patch data M73 |
| Data | 0xxxxxxx | | Patch data M74 |
| Data | 0xxxxxxx | | Patch data M75 |
| EOX | 11110111 | F7H | |

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 | K1/K1m 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 | K1/K1m 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 M84 data | } A-1 patch data |
| Data | 0xxxxxxx | A-1 M85 data | |
| Data | 0xxxxxxx | A-1 M86 data | |
| Data | 0xxxxxxx | A-1 M87 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 M84 data | } A-2 patch data |
| Data | 0xxxxxxx | A-2 M85 data | |
| Data | 0xxxxxxx | A-2 M86 data | |
| Data | 0xxxxxxx | A-2 M87 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 M84 data | } D-8 patch data |
| Data | 0xxxxxxx | D-8 M85 data | |
| Data | 0xxxxxxx | D-8 M86 data | |
| Data | 0xxxxxxx | D-8 M87 data | |
| EOX | 11110111 | F7H | |

4-5 WRITE COMPLETE

When the received Single or Multi data has been completely written, the K1/K1m 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 | K1/K1m ID. no. |
| EOX | 11110111 | F7H | |

4-6 WRITE ERROR

If illegal data is found in the received Single or Multi data, the K1/K1m 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 | K1/K1m ID. no. |
| EOX | 11110111 | F7H | |

4-7 MACHINE ID ACKNOWLEDGE

This message is transmitted when the K1/K1m 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 | K1/K1m ID. no. |
| EOX | 11110111 | F7H | |

5. EXCLUSIVE RECOGNIZED RECEIVED DATA

5-1 ONE BLOCK DATA REQUEST

| | | | |
|----------------|----------|-----|-----------------------------|
| Status | 11110000 | F0H | System exclusive |
| Kawai ID no. | 01000000 | 40H | |
| Channel no. | 0000nnnn | 0nH | |
| Function no. | 00000000 | 00H | One Single or Multi request |
| Group no. | 00000000 | 00H | Synthesizer group |
| Machine ID no. | 00000011 | 03H | K1/K1m ID. no. |
| Sub command 1 | 0000000a | | a=0 int, a=1 ext |
| Sub command 2 | 0bbbbbbb | | Single or multi patch no. |
| EOX | 11110111 | F7H | |

5-2 ALL BLOCK DATA REQUEST

| | | | |
|----------------|----------|-----|---|
| Status | 11110000 | F0H | System exclusive |
| Kawai ID no. | 01000000 | 40H | |
| Channel no. | 0000nnnn | 0nH | |
| Function no. | 00000001 | 01H | All Single or Multi request |
| Group no. | 00000000 | 00H | Synthesizer group |
| Machine ID no. | 00000011 | 03H | K1/K1m ID. no. |
| Sub command 1 | 0000000a | | a=0 int, a=1 ext |
| Sub command 2 | 0xxx0000 | | 0=single I or E 20H=single i or e 40H=multi |
| EOX | 11110111 | F7H | |

5-3 PARAMETER SEND

| | | | |
|----------------|----------|-----|--|
| Status | 11110000 | F0H | System exclusive |
| Kawai ID no. | 01000000 | 40H | |
| Channel no. | 0000nnnn | 0nH | |
| Function no. | 00010000 | 10H | Parameter send |
| Group no. | 00000000 | 00H | Synthesizer group |
| Machine ID no. | 00000011 | 03H | K1/K1m ID. no. |
| Sub command 1 | 0ppppppp | | Parameter no. |
| Sub command 2 | 00000ssd | | ss 0/S1, 1/S2, 2/S3, 3/S4, d=Value's MSB |
| Data | 0xxxxxxx | | Value dxxxxxxx |
| EOX | 11110111 | F7H | |

5-4 ONE SINGLE DATA DUMP

After receiving this message, the K1/K1m transmits "WRITE COMPLETE" if it is okay, or "WRITE ERROR" if it is not.

| | | | |
|----------------|----------|-----|---------------------|
| Status | 11110000 | F0H | System exclusive |
| Kawai ID no. | 01000000 | 40H | |
| Channel no. | 0000nnnn | 0nH | |
| Function no. | 00100000 | 20H | One block data dump |
| Group no. | 00000000 | 00H | Synthesizer group |
| Machine ID no. | 00000011 | 03H | K1/K1m ID. no. |
| Sub command 1 | 0000000a | | 0/int, 1/ext |
| Sub command 2 | 0bbbbbbb | | 0 ~ 63 single |
| Data | 0xxxxxxx | | Patch data s0 |
| Data | 0xxxxxxx | | Patch data s1 |
| Data | 0xxxxxxx | | Patch data s2 |
| . | . | | . |
| Data | 0xxxxxxx | | Patch data s85 |
| Data | 0xxxxxxx | | Patch data s86 |
| Data | 0xxxxxxx | | Patch data s87 |
| EOX | 11110111 | F7H | |

5-5 ONE MULTI DATA DUMP

After receiving this message, the K1/K1m transmits "WRITE COMPLETE" if it is okay, or "WRITE ERROR" if it is not.

| | | | |
|----------------|----------|-----|---------------------|
| Status | 11110000 | F0H | System exclusive |
| Kawai ID no. | 01000000 | 40H | |
| Channel no. | 0000nnnn | 0nH | |
| Function no. | 00100000 | 20H | One block data dump |
| Group no. | 00000000 | 00H | Synthesizer group |
| Machine ID no. | 00000011 | 03H | K1/K1m ID. no. |
| Sub command 1 | 0000000a | | 0/int, 1/ext |
| Sub command 2 | 0bbbbbbb | | 64 ~ 95 multi |
| Data | 0xxxxxxx | | Patch data M0 |
| Data | 0xxxxxxx | | Patch data M1 |
| Data | 0xxxxxxx | | Patch data M2 |
| . | . | | . |
| Data | 0xxxxxxx | | Patch data M73 |
| Data | 0xxxxxxx | | Patch data M74 |
| Data | 0xxxxxxx | | Patch data M75 |
| EOX | 11110111 | F7H | |

5-6 ALL SINGLE DATA DUMP

Followings are the examples of all I(=INT) block data dump. 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 | K1/K1m 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 |
| Data | 0xxxxxxx | | A-1 s1 data |
| Data | 0xxxxxxx | | A-1 s2 data |
| Data | 0xxxxxxx | | A-1 s3 data |
| . | . | | . |
| . | . | | . |
| Data | 0xxxxxxx | | A-1 s84 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 |
| Data | 0xxxxxxx | | A-2 s1 data |
| Data | 0xxxxxxx | | A-2 s2 data |
| Data | 0xxxxxxx | | A-2 s3 data |
| . | . | | . |
| . | . | | . |
| Data | 0xxxxxxx | | A-2 s84 data |
| Data | 0xxxxxxx | | A-2 s85 data |
| Data | 0xxxxxxx | | A-2 s86 data |
| Data | 0xxxxxxx | | A-2 s87 data |
| . | . | | . |
| . | . | | . |
| Data | 0xxxxxxx | | A-3 patch data |
| Data | 0xxxxxxx | | A-4 patch data |
| Data | 0xxxxxxx | | A-5 patch data |
| Data | 0xxxxxxx | | A-6 patch data |
| Data | 0xxxxxxx | | A-7 patch data |
| Data | 0xxxxxxx | | A-8 patch data |
| Data | 0xxxxxxx | | B-1 patch data |
| Data | 0xxxxxxx | | B-2 patch data |
| . | . | | . |
| . | . | | . |
| Data | 0xxxxxxx | | D-6 patch data |
| Data | 0xxxxxxx | | D-7 patch data |
| . | . | | . |
| Data | 0xxxxxxx | | D-8 s0 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 |
| Data | 0xxxxxxx | | D-8 s85 data |
| Data | 0xxxxxxx | | D-8 s86 data |
| Data | 0xxxxxxx | | D-8 s87 data |
| EOX | 11110111 | F7H | |

5-7 ALL MULTI DATA DUMP

Followings are the example of all (=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 | K1/K1m 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 M84 data |
| Data | 0xxxxxxx | | A-1 M85 data |
| Data | 0xxxxxxx | | A-1 M86 data |
| Data | 0xxxxxxx | | A-1 M87 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 M84 data |
| Data | 0xxxxxxx | | A-2 M85 data |
| Data | 0xxxxxxx | | A-2 M86 data |
| Data | 0xxxxxxx | | A-2 M87 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 M84 data |
| Data | 0xxxxxxx | | D-8 M85 data |
| Data | 0xxxxxxx | | D-8 M86 data |
| Data | 0xxxxxxx | | D-8 M87 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 | K1/K1m 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 | K1/K1m ID. no. |
| EOX | 11110111 | F7H | |

5-10 MACHINE ID REQUEST

After receiving this message, the K1/K1m 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>

| No. | Byte | Cursor parameter | Description |
|-----|----------|------------------|--------------------|
| s0 | 0nnnnnnn | 4 | Name 1 |
| 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 |
| s11 | aa | 27 | Poly mode |
| | b | 14 | Source 2/4 |
| | cc | 36 | am S1, S2 |
| | Odd | 37 | am S3, S4 |
| s12 | 0ppppppp | 24 | prs>freq |
| s13 | 0ddddd | 15 | Vibrato dep |
| s14 | 0aaaaaaa | 18 | vib pres>vib |
| s15 | 0000pppp | 25 | Pitch bend |
| s16 | 01111111 | 16 | Ifo speed |
| s17 | ss | 17 | Ifo shape |
| | ccc | 26 | ks curve |
| | 0ww | 19 | vib wheel |
| s18 | 0aaaaaaa | 20 | Auto bend depth |
| s19 | 0ttttttt | 21 | Auto bend time |
| s20 | 0vvvvvvv | 22 | Auto bend vel->dep |
| s21 | 0kkkkkkk | 23 | Auto bend ks>time |
| s22 | a | S1 mute | 0/mute, 1/not mute |
| | b | S2 mute | 0/mute, 1/not mute |
| | c | S3 mute | 0/mute, 1/not mute |
| | 0000d | S4 mute | 0/mute, 1/not mute |

<SOURCES>

| | | | | |
|-----|----------|-------|---------------------|---|
| s23 | 0ffffff | 30 | S1 fine | 0 ~ 100 (±50) |
| s24 | -- | -- | S2 | -- |
| s25 | -- | -- | S3 | -- |
| s26 | -- | -- | S4 | -- |
| s27 | 0ccccccc | 28/29 | S1 wave select n | Coarse 60 ~ 108/±24 Fix 0 ~ 127/C-4 ~ G6 |
| s28 | -- | -- | S2 | -- |
| s29 | -- | -- | S3 | -- |
| s30 | -- | -- | S4 | -- |
| s31 | 0wwwwwww | 35 | S1 wave select 1 | 0 ~ 127 |
| s32 | -- | -- | S2 | -- |
| s33 | -- | -- | S3 | -- |
| s34 | -- | -- | S4 | -- |
| s35 | x | 35 | S1 wave select n | msb xwwwwwww 0 ~ 255/1 ~ 256 |
| | k | 31 | S1 key track | 0/off, 1/on |
| | v | 32 | S1 vib/a. bend | 0/off, 1/on |
| | p | 33 | S1 prs> frq | 0/off, 1/on |
| | 0vvv | 47 | S1 vel curve | 0 ~ 7/1 ~ 8 |
| s36 | -- | -- | 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) |
| s64 | -- | -- | S2 | -- |
| s65 | -- | -- | S3 | -- |
| s66 | -- | -- | S4 | -- |
| s67 | 0eeeeeee | 49 | S1 level mod prs | 0 ~ 100 (±50) |
| s68 | -- | -- | S2 | -- |
| s69 | -- | -- | S3 | -- |
| s70 | -- | -- | S4 | -- |
| s71 | 0eeeeeee | 50 | S1 level mod ks | 0 ~ 100 (±50) |
| s72 | -- | -- | S2 | -- |
| s73 | -- | -- | S3 | -- |
| s74 | -- | -- | S4 | -- |
| s75 | 0eeeeeee | 51 | S1 time mod vel | 0 ~ 100 (±50) |
| s76 | -- | -- | S2 | -- |
| s77 | -- | -- | S3 | -- |
| s78 | -- | -- | S4 | -- |
| s79 | 0eeeeeee | 52 | S1 time mod ks | 0 ~ 100 (±50) |
| s80 | -- | -- | S2 | -- |
| s81 | -- | -- | S3 | -- |
| s82 | -- | -- | S4 | -- |
| s83 | 0eeeeeee | 34 | S1 freq ks>freq | 0 ~ 100 (±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 |
| | 0m | Mode 1 | - |
| M15 | On | Mode m | nm 0/kybd, 1/midi, 2/mix (K-1) |
| | 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 (0 ~ +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 |
| | 0m | Mode 1 | - |
| M23 | On | Mode m | nm 0/kybd, 1/midi, 2/mix (K-1) |
| | 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 (0 ~ +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 |
| | 0m | Mode 1 | - |
| M71 | On | Mode m | nm 0/kybd, 1/midi, 2/mix (K-1) |
| | 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 (0 ~ +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 | RCU |
|------------------------|--------------|----------------------------|------------|---|-----|-----|
| One Patch Data Request | 0 (00H) | 0 | 0 ~ 63 | ONE INT SINGLE DATA REQUEST | X | 0 |
| | | 0 | 64 ~ 95 | ONE INT MULTI DATA REQUEST | X | 0 |
| | | 1 | 0 ~ 63 | ONE EXT SINGLE DATA REQUEST | X | 0 |
| | | 1 | 64 ~ 95 | ONE EXT MULTI DATA REQUEST | X | 0 |
| All Patch Data Request | 1 (01H) | 0 | 0 | ALL INT SINGLE DATA REQUEST | X | 0 |
| | | 0 | 32 | ALL int SINGLE DATA REQUEST | X | 0 |
| | | 0 | 64 | ALL INT MULTI DATA REQUEST | X | 0 |
| | | 1 | 0 | ALL EXT SINGLE DATA REQUEST | X | 0 |
| | | 1 | 32 | ALL ext SINGLE DATA REQUEST | X | 0 |
| 1 | 64 | ALL EXT MULTI DATA REQUEST | X | 0 | | |
| Parameter send | 16 (10H) | 0ppppppp | 00000ssd | SINGLE PARAMETER ppppppp 0 ~ 127 parameter no. ss 0/s1, 1/s2, 2/s3, 3/s4 d MSB of data | X | 0 |
| One Patch Data Dump | 32 (20H) | 0 | 0 ~ 63 | ONE INT SINGLE DATA DUMP | 0 | 0 |
| | | 0 | 64 ~ 95 | ONE INT MULTI DATA DUMP | 0 | 0 |
| | | 1 | 0 ~ 63 | ONE EXT SINGLE DATA DUMP | 0 | 0 |
| | | 1 | 64 ~ 95 | ONE EXT MULTI DATA DUMP | 0 | 0 |
| All Patch Data Dump | 33 (21H) | 0 | 0 | ALL INT SINGLE DATA DUMP | 0 | 0 |
| | | 0 | 32 | ALL int SINGLE DATA DUMP | 0 | 0 |
| | | 0 | 64 | ALL INT MULTI DATA DUMP | 0 | 0 |
| | | 1 | 0 | ALL EXT SINGLE DATA DUMP | 0 | 0 |
| | | 1 | 32 | ALL ext SINGLE DATA DUMP | 0 | 0 |
| | | 1 | 64 | ALL EXT MULTI DATA DUMP | 0 | 0 |
| Write Complete | 64 (40H) | — | — | | 0 | 0 |
| Write Error | 65 (41H) | — | — | | 0 | 0 |
| Write Error (Protect) | 66 (42H) | — | — | | 0 | 0 |
| Write Error (No Card) | 67 (43H) | — | — | | 0 | 0 |
| Machine ID Request | 96 (60H) | — | — | | X | 0 |
| Machine ID Acknowledge | 97 (61H) | — | — | | 0 | 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 |

Note: Receiving program no. 96 ~ 127, the K1/K1m treats same as 64 ~ 95.