

GENERAL  
**MIDI**



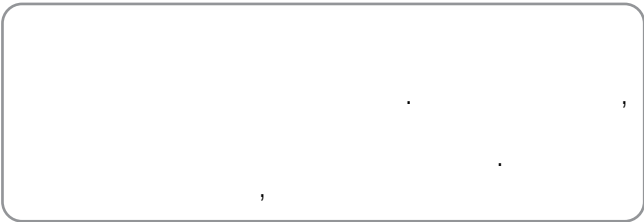
FCC ( )

15 FCC (

).

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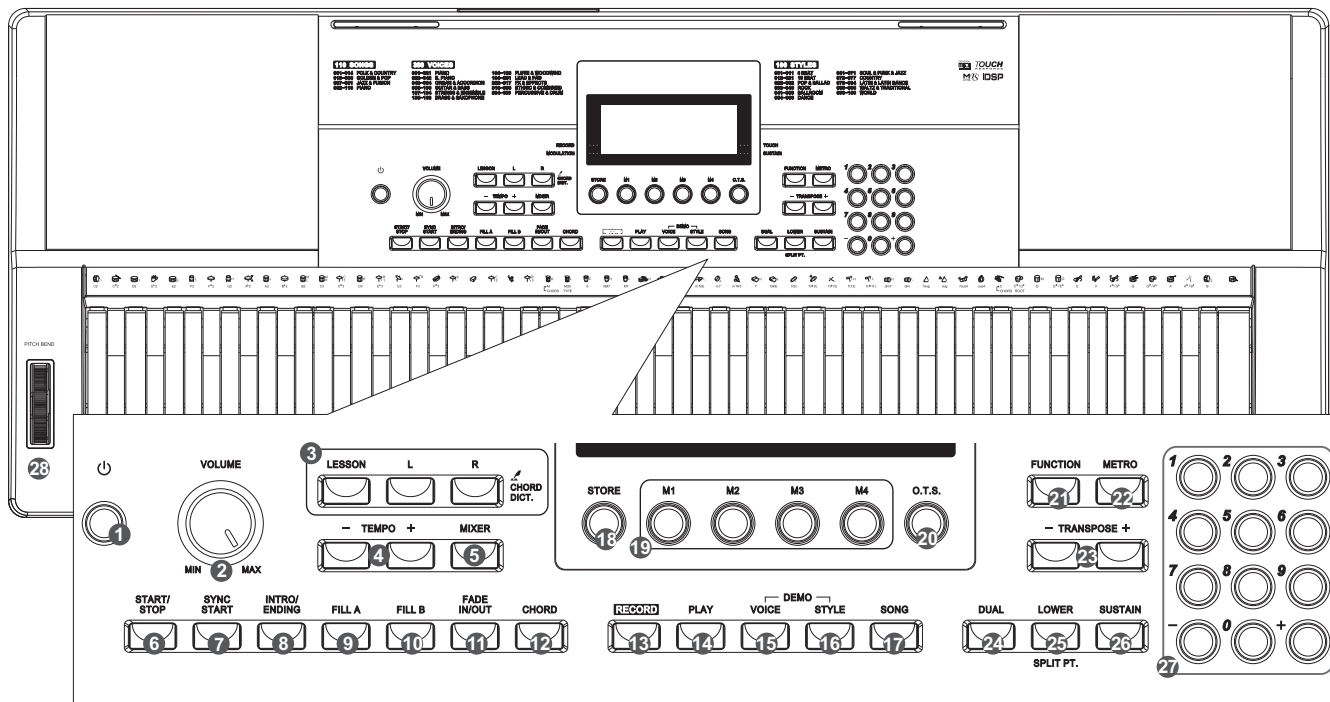
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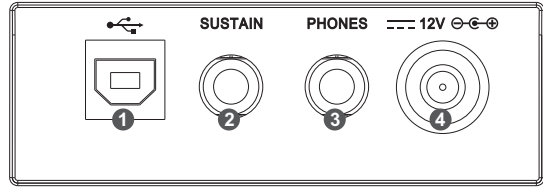
.....	4
.....	5
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.....	6
.....	7
.....	7
.....	7
.....	8
.....	8
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.....	8
.....	9
.....	9
[PITCH BEND] .....	10
.....	10
.....	12
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MIDI .....	20
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.....	27
.....	27
MIDI .....	28





- |    |                    |     |             |     |               |
|----|--------------------|-----|-------------|-----|---------------|
| 1. |                    | 10. | [FILL B]    | 19. | M1-M4         |
| 2. | MASTER VOLUME      | 11. | Fade In/Out | 20. | O.T.S.        |
| 3. | CHORD DICT./LESSON | 12. | CHORD       | 21. | FUNCTION      |
| 4. | [TEMPO+/-]         | 13. | RECORD      | 22. | METRO.        |
| 5. |                    | 14. | PLAY        | 23. | TRANSPOSE +/- |
| 6. | START / STOP       | 15. | VOICE       | 24. | DUAL          |
| 7. | SYNC START         | 16. | STYLE       | 25. | LOWER         |
| 8. | INTRO / ENDING     | 17. | SONG        | 26. | SUSTAIN       |
| 9. | [FILL A]           | 18. | STORE       | 27. |               |
|    |                    |     |             | 28. | Pitch bend    |

1. USB
2. SUSTAIN
3. PHONES
4. DC 12V

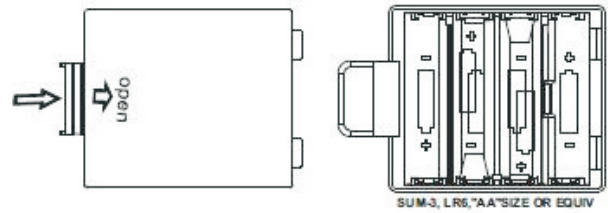


- |    |           |     |                |
|----|-----------|-----|----------------|
| 1. | 7.        | 13. | A.B.C./FADE/AB |
| 2. | 8.        | 14. |                |
| 3. | 9.        | 15. | (M1-M4)        |
| 4. | 10.       | 16. |                |
| 5. |           | 17. | USB            |
| 6. | (Measure) |     |                |
|    | 11.       |     |                |
|    | 12.       |     |                |

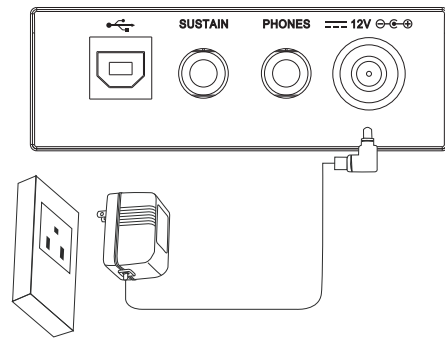


6

- 1.
- 2.
- 3.



- 1. OFF ( )
- 2.
- 3.
- 4.



6

100

95

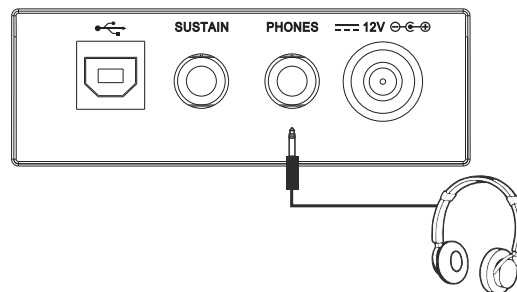
75

25

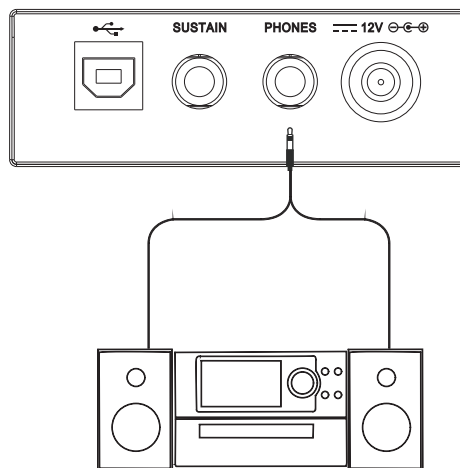
5

0

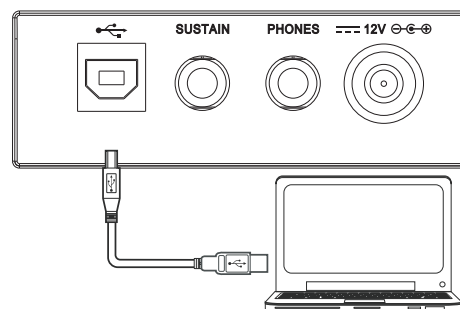
PHONES



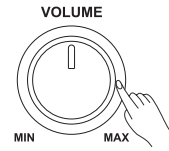
PHONES.



USB. MIDI



[MASTER VOLUME]



1. [STYLE] [VOICE]  
(DEMO).

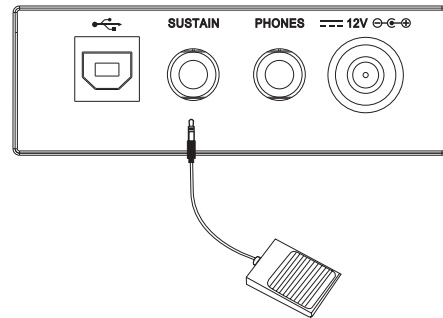
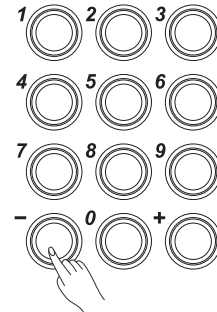
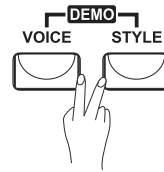
2.

4

DATA DIAL,  
8

[+], [-]

3. [STYLE] [VOICE],  
[START/STOP]

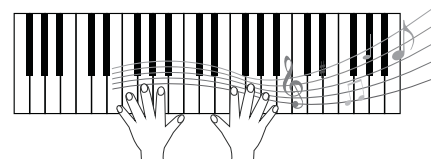
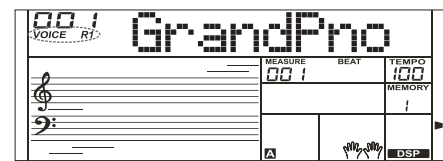


390

"VOICE R1"

- VOICE R1 .001,

[+], [-]



DUAL LOWER,

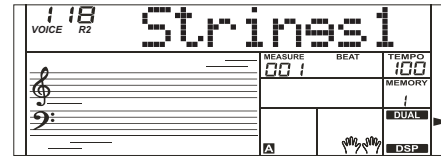
[VOICE].

8



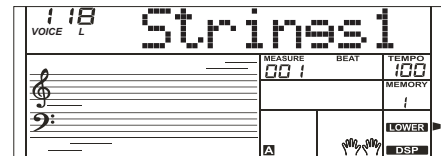
## DUAL

1. [DUAL],  
DUAL "VOICE R2" ( 2 )  
).
2. [+], [-]
3. [DUAL].



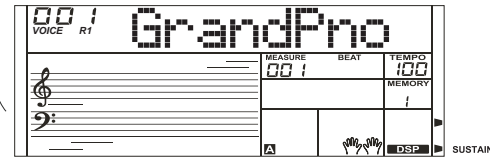
## LOWER Lower

1. [LOWER],  
LOWER "VOICE L" ( Split, )
2. [+], [-]
3. [LOWER].



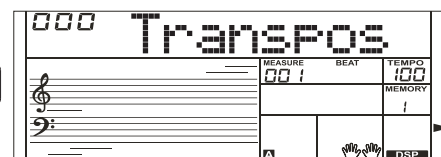
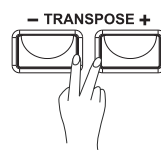
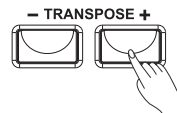
## (SUSTAIN)

[SUSTAIN]



( )

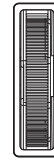
1. [Transpose+] [Transpose-]  
"xxx Transpos".
2. [Transpose+] [Transpose-]  
-12 +12
3. [Transpose +] [Transpose-].  
0



# Pitch Bend

( ) . pith bend  
 ( ) . pitch bend

PITCH BEND



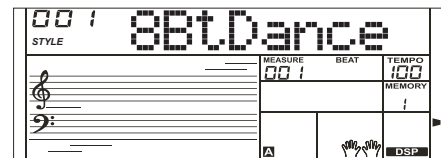
100

1. [STYLE].  
 "STYLE",  
 2. [+]/[-]  
 3. [START/STOP],  
 ( ) .

STYLE



START/STOP

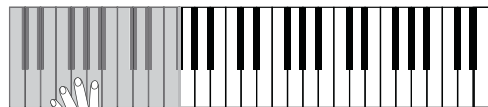


1. [STYLE].  
 2. .  
 3. [CHORD]

STYLE



CHORD

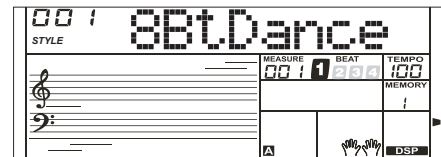


4. [SYNC START], 4  
 5. [START/STOP]  
 6. [START/STOP]

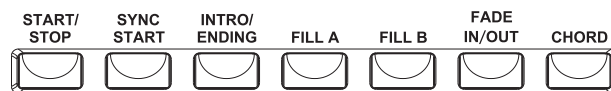
SYNC START



START/STOP



: Intro, Main (A, B), Fill (A, B) Ending.



1. INTRO ( ) (Main).



2. MAIN ( )

3. FILL-IN ( )



4. ENDING ( ) (Main A, B).



1. [STYLE]

STYLE



2. [SYNC START]

SYNC START



3. [FILL A].

4. [INTRO/ENDING].

"A"

INTRO/ENDING



5. Main A.

6. [FILL B].

FILL B



Main B ( ).

7. [INTRO/ENDING].

[INTRO/ENDING],

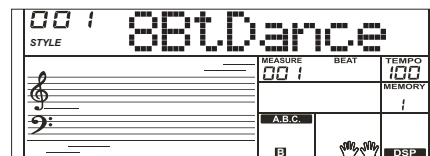
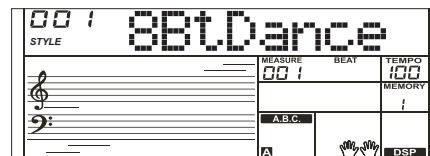
Ending.

INTRO/ENDING



(FILL)

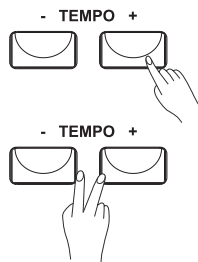
[FILL]



[TEMPO +]/ [TEMPO -].

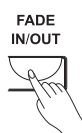
1.

[TEMPO+] [TEMPO-].  
[TEMPO-] [TEMP+]



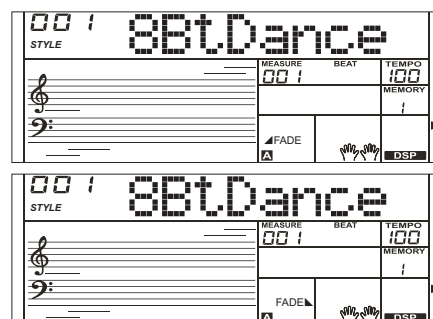
1.

Fade In (Fade In)  
[FADE IN/OUT]  
[START/STOP]



2.

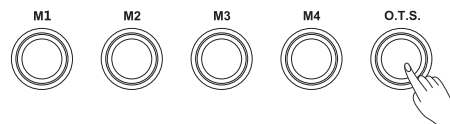
Fade Out (Fade out)  
[FADE IN/OUT]



(One Touch Setting) —

1.

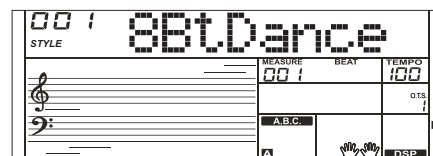
[O.T.S.],



2.

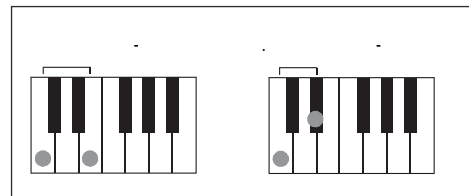
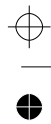
[M1]-[M4].

( O.T.S. ),



3.





# Cm

## CHORD FINGER

1.

(SINGLE FINGER)  
Single-finger

2.

(MULTI-FINGER)

3.

FULL RANGE  
FULL RANGE,

[CHORD]

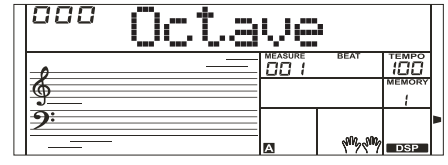
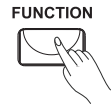
"Full Range".

0 C	1 C <sub>6</sub>	2 CM <sub>7</sub>	3 CM <sub>7</sub> (#11)	4 CM(9)	5 CM <sub>7</sub> ( <sup>9</sup> )
6 C <sub>6</sub> ( <sup>9</sup> )	7 C <sub>aug</sub>	8 Cm	9 Cm <sub>6</sub>	10 Cm <sub>7</sub>	11 Cm <sub>7</sub> (b5)
12 Cm( <sup>9</sup> )	13 Cm <sub>7</sub> ( <sup>9</sup> )	14 Cm <sub>7</sub> ( <sup>11</sup> )	15 CmM <sub>7</sub>	16 CmM <sub>7</sub> ( <sup>9</sup> )	17 Cdim
18 Cdim <sub>7</sub>	19 C <sub>7</sub>	20 C <sub>7</sub> sus <sub>4</sub>	21 C <sub>7</sub> (b5)	22 C <sub>7</sub> ( <sup>9</sup> )	23 C <sub>7</sub> (#11)
24 C <sub>7</sub> ( <sup>13</sup> )	25 C <sub>7</sub> (b9)	26 C <sub>7</sub> (b13)	27 C <sub>7</sub> (#9)	28 CM <sub>7</sub> aug	29 C <sub>7</sub> aug
30 C <sub>sus</sub> <sub>4</sub>	31 C <sub>sus</sub> <sub>2</sub>				



[FUNCTION] - "Octave".

[FUNCTION] [+], [-]



Octave	XXX Octave	-1~+1
DSP	DSP	ON/OFF
Reverb Type	XXX Rev Type	0~7
Reverb Level	XXX Rev Lev	0~32
Chorus Type	XXX Chr Type	0~7
Chorus Level	XXX Chr Lev	0~32
Modulation	Modul	ON/OFF
Touch	Touch	1/2/3/OFF
Beat	XXX Beat	0,2...9
Tune	XXX Tune	-50...50
MIDI Receive	XXX Midi In	01~16、ALL
MIDI Transmit	XXX Midi Out	01~16
Automatic Shutdown	XXX PowerOff	30,60,OFF

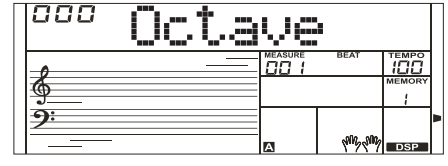
5

[FUNCTION] OCTAVE ( ).

[+] [-] "xxx Octave".

-1 +1.

-0. [+], [-]



DSP

DSP- [FUNCTION], [+]/[-].

DSP-

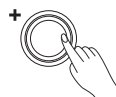
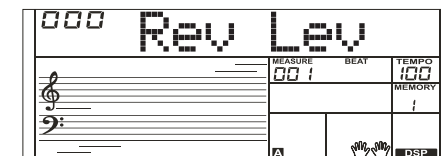
[FUNCTION] (reverb type). "xxx Rev Type",

0~7, [+]/[-].

Level”,  
[FUNCTION]  
(reverb level).  
0~32,  
[+]/[-].

“xxx Rev

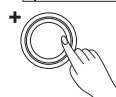
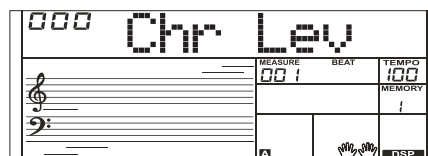
FUNCTION



[FUNCTION]  
“xxx Chr Type”,  
0~7,  
[+]/[-].

(chorus type).

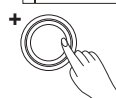
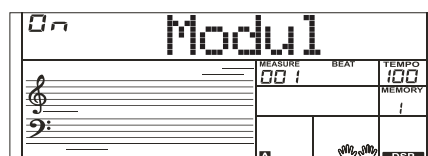
FUNCTION



level).  
[FUNCTION]  
“xxx Chr Level”,  
0~32,  
[+]/[-].

(chorus

FUNCTION



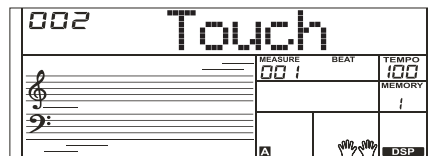
(modulation)

[FUNCTION],

“Modul”,  
[+]/[-].

[FUNCTION]  
(touch level).  
“TOUCH”,  
-2;  
[+]/[-].

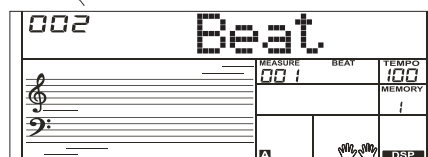
FUNCTION



TOUCH.  
TOUCH

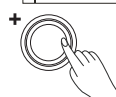
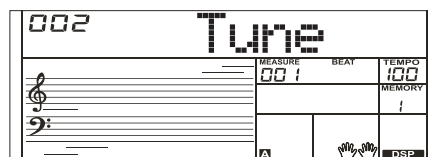
[FUNCTION]  
“xxx Beat”.  
[+] [-].  
: 0 2 3 4 5 6 7 8 9.  
(beat),  
-4.

FUNCTION



[FUNCTION]  
“xxx Tune”.  
-50 +50  
[+] [-]  
(tune).  
[+] [-]  
TUNE

FUNCTION



MIDI

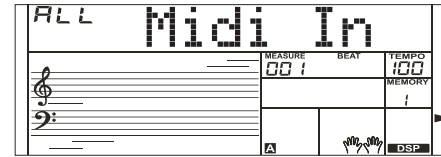
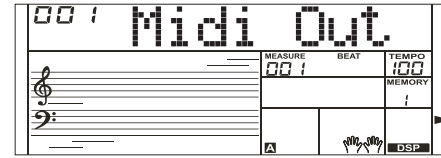
[FUNCTION] MIDI  
 "xxx Midi In" "xxx Midi Out".

TRANSMIT.  
 2 16.

MIDI  
 - 001,  
 [+] [-]  
 MIDI  
 - all ( ),  
 [+] [-]

RECIVE.

FUNCTION



1.

Power Off

[FUNCTION]

"Power Off".

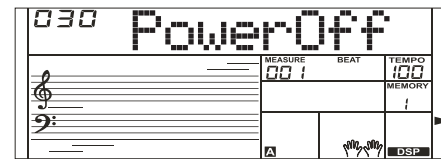
2.

OFF ( ), 30 60;

FUNCTION



- 30.



3.

:30

[+] [-]

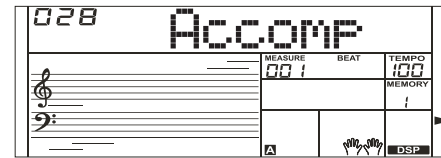
[MIXER]  
 "Accomp" (

Mixer

[MIXER]

[+] [-]

MIXER



	XXX Accomp	0-32
	XXX Rhythm_s	0-32
	XXX Rhythm_m	0-32
	XXX Bass	0-32
1	XXX Chord 1	0-32
2	XXX Chord 2	0-32
3	XXX Chord 3	0-32
1	XXX Phrase 1	0-32
2	XXX Phrase 2	0-32
R1	XXX Upper1	0-32
R2	XXX Upper2	0-32
L	XXX Lower	0-32

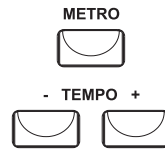
5



[METRO].

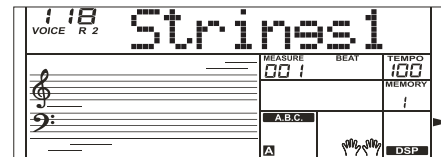
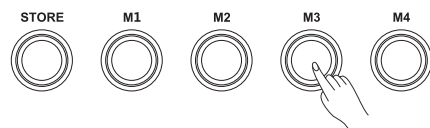
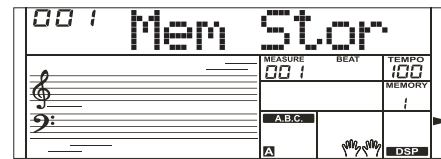
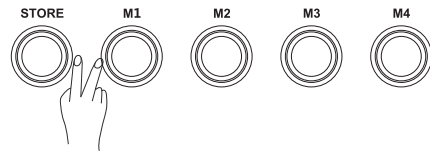
[METRO]

[TEMPO+] [TEMPO-]



[STORE],

: [M1] - [M4].



[M1] - [M4].

3.

1. [RECORD]

2. [START/STOP]

A.B.C.

3. [RECORD]

4. [PLAY]

5. [PLAY]

[PLAY],

RECORD



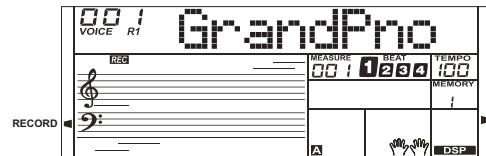
START/STOP



RECORD



PLAY



110 ( ).

1. [SONG]

"SONG"

2.

[+] [-]



3.

[START/STOP],

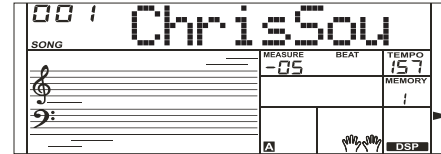
( ).

START/STOP



[START/STOP].

SONG



1.

1

[LESSON]

"lesson 1" ( 1).

LESSON 1

LESSON



[RIGHT],

[LEFT],

((L) (R)),

2.

2

[LESSON]

LESSON 2

2.

3.

3

[LESSON]

LESSON 3

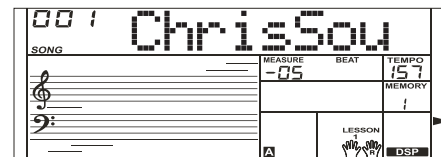
4.

1: "Try Again!"

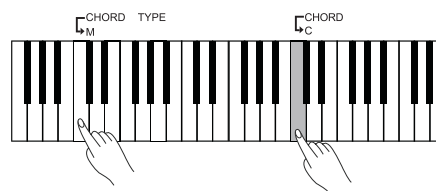
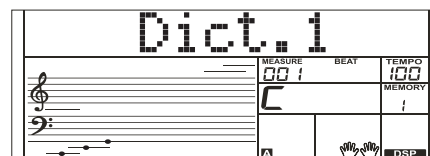
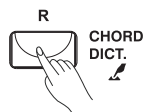
2: Ok

3: Very Good

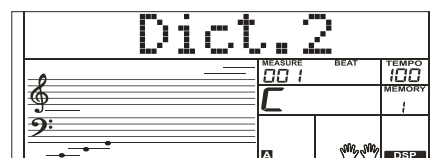
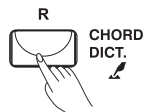
4: Excellent



(DICT 1)  
 DICT 1  
 [CHORD] R CHORD DICT.  
 4 (" " )  
 6 (" " )  
 (Chord Type)  
 CM7,  
 CHORD ROOT.  
 M7  
 CHORD TYPE.  
 (Chord Type) (Chord Root)



(DICT 2)  
 [CHORD DICT.] R CHORD DICT.  
 3  
 [CHORD DICT.]  
 24 :

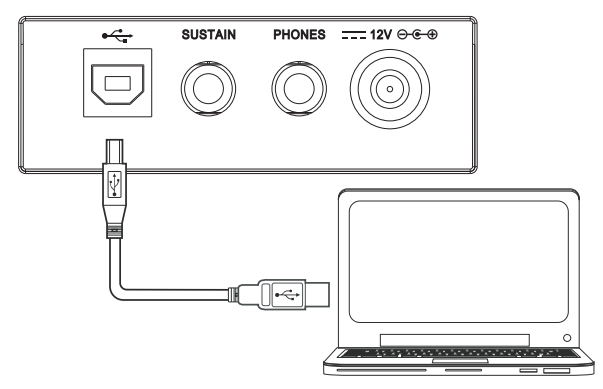


C6	C	F6#	F#/Gb
C6#	C#/Db	G6	G
D6	D	A6b	Ab/G#
E6b	Eb/D#	A6	A
E6	E	B6b	Bb/A#
F6	F	B6	B

C4	M	C5	7(b9)
C4#	M(9)	C5#	7(9)
D4	6	D5	7(#9)
E4b	mM7	E5b	7(b13)
E4	M7	E5	7(13)
F4	m	F5	7(#11)
F4#	m(9)	F5#	dim7
G4	m6	G5	dim
Ab4	m7(9)	A5b	7aug
A4	m7	A5	aug
B4b	m7b5	B5b	7sus4
B4	7	B5	sus4

# MIDI

MIDI  
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USB



- : Pentium 2, 300
  - : 64
  - : MICROSOFT WINDOWS XP SP3
- USB


61		Power on/off switch, Master Volume, Lesson, L, R/Chord Dict., Tempo+/-, Mixer, Record, Store, M1~M4, O.T.S., Play, Voice, Style, Song, Function, Transpose+/-, Numeric buttons, +, -, Metronome, Sustain, Dual, Lower
3		
		Start/Stop, SYNC Start, Intro/Ending, Fill A/B, Fade In/Out, Chord
64		
390		DC IN, Headphones, USB
100		
110	12	
8	10 4 2	
30-280		: 955 x 360 x 145
4		4,5



No.	Full Name	Short Name
<b>Piano</b>		
1	Acoustic Grand Piano	GrandPno
2	Acoustic Grand Piano /wide	GrandPnW
3	Acoustic Grand Piano /dark	GrandPnD
4	Bright Acoustic Piano	BritePno
5	Bright Acoustic Piano /wide	BritePnW
6	Octave Grand Piano 1	OctPno1
7	Octave Grand Piano 2	OctPno2
8	Piano & Strings 1	Pno&Str1
9	Piano & Pad 1	Pno&Pad1
10	Piano & Choir 1	Pno&Cho1
11	Piano & EP 1	Pno&EP1
12	Electric Grand Piano	E.Grand
13	Electric Grand Piano /wide	E.GrandW
14	Electric Grand Piano /dark	E.GrPnoD
15	Honky Tonk Piano	HnkyTonk
16	Honky Tonk Piano /wide	HnyTonkW
17	Honky Tonk Piano /dark	HonkToDa
18	Harpsichord	Harpsi
19	Harpsichord /octave mix	HarpsiO
20	Harpsichord /wide	HarpsiW
21	Harpsichord /with key off	HarpsiOf
<b>E. Piano</b>		
22	Electric Piano 1	E.Piano1
23	Electric Piano 2	E.Piano2
24	Detuned Electric Piano 1	DetunEP1
25	Detuned Electric Piano 2	DetunEP2
26	60's Electric Piano	60'sEP
27	Electric Piano 1 /velocity mix	E.PnoV1
28	Electric Piano 2 /velocity mix	E.PnoV2
29	EP Legend	EPLegend
30	Phase EP 1	PhaseEP1
31	Phase EP 2	PhaseEP2
32	Funk EP	FunkEP1
33	Tremolo EP	TremoEP1
34	Wah EP	WahEP1
35	Warm EP	WarmEP1
36	Modern EP 1	ModenEP1
37	Choir EP	ChoirEP1
38	EP & Strings 1	EP&Str1
39	Clavi	Clavi
40	Pulse Clavi	PluseClv
41	Phase Clavi	PhaseClv
42	Wah Clavi	WahClavi
<b>Organ &amp; Accordion</b>		
43	Drawbar Organ	DrawOrgn
44	Detuned Drawbar Organ	DeDraOrg
45	Italian 60's Organ	60'sOrgn
46	Drawbar Organ 2	DrawOrg2
47	Percussive Organ	PercOrgn
48	Detuned Percussive Organ	DePerOrg
49	Percussive Organ 2	PercOrg2
50	70's Percussive Organ	70'sPcOr
51	Rock Organ	RockOrgn
52	Rock Organ 2	RockOrg2
53	Rotary Organ 1	RotaOrg1

54	Church Organ	ChurOrgn
55	Church Organ /octave mix	ChurOrgO
56	Detuned Church Organ	DeChuOr1
57	Church Organ 2	ChurOrg2
58	Reed Organ	ReedOrgn
59	Puff Organ	PuffOrgn
60	Accordion	Acordion
61	Accordion 2	Acordin2
62	Harmonica	Harmnica
63	Harmonica 2	Harmnic2
64	Tango Accordion	TangoAcCd
<b>Guitar &amp; Bass</b>		
65	Acoustic Guitar /nylon	NylonGtr
66	Ukulele	Ukulele
67	Acoustic Guitar /nylon + key off	NylGtrOf
68	Acoustic Guitar /nylon 2	NylonGt2
69	Velocity Nylon Guitar	NyNlGtVe
70	Acoustic Guitar /steel	SteelGtr
71	12-Strings Guitar	12StrGtr
72	Mandolin	Mandolin
73	Mandolin 2	Mandoli2
74	Steel Guitar with Body Sound	SteelBdy
75	Electric Guitar /jazz	JazzGtr
76	Electric Guitar /pedal steel	PedalGtr
77	Electric Guitar /clean	CleanGtr
78	Electric Guitar /detuned clean	DetClnGt
79	Mid Tone Guitar	MidTonGt
80	Electric Guitar /muted	MutedGtr
81	Electric Guitar /funky cutting	FunkGt
82	Electric Guitar /muted velo-sw	MutVelGt
83	Jazz Man	JazzMan
84	Overdriven Guitar	Ovrdrive
85	Guitar Pinch	GtPinch
86	Distortion Guitar	DistGtr
87	Distortion Guitar /with feedback	FeedbkGt
88	Distorted Rhythm Guitar	DistRyth
89	Guitar Harmonics	GtrHarmo
90	Guitar Feedback	GtrFdbk
91	Acoustic Bass	AcoBass
92	Electric Bass /finger	FngrBass
93	Finger Slap Bass	FngrSlap
94	Electric Bass /pick	PickBass
95	Fretless Bass	Fretless
96	Slap Bass 1	SlapBas1
97	Slap Bass 2	SlapBas2
98	Synth Bass 1	SynBass1
99	Synth Bass 2	SynBass2
100	Synth Bass /warm	WarmBass
101	Synth Bass 3 /resonance	ResoBass
102	Clavi Bass	ClavBass
103	Hammer	Hammer
104	Synth Bass 4 /attack	AttackBas
105	Synth Bass /rubber	RubbBass
106	Attack Pulse	AttackPls
<b>Strings &amp; Ensemble</b>		
107	Violin	Violin
108	Violin /slow attack	SIViolin

109	Viola	Viola
110	Cello	Cello
111	Contrabass	Contrabs
112	Tremolo Strings	TremStr
113	Tremolo Strings 2	TremStr2
114	Pizzicato Strings	PizzStr
115	Orchestral Harp	Harp
116	Yang Chin	YangChin
117	Timpani 1	Timpani1
118	String Ensembles 1	Strings1
119	String Ensembles 2	Strings2
120	Strings & Brass	Str&Bras
121	60's Strings	60'sStr
122	Synth Strings 1	SynStrs1
123	Synth Strings 2	SynStrs2
124	Synth Strings 3	SynStrs3
125	Choir Aahs	ChoirAah
126	Choir Aahs 2	ChoirAh2
127	Voice Oohs	VoiceOoh
128	Humming	Humming
129	Synth Voice	SynVoice
130	Anlong Voice	AnlVoice
131	Orchestra Hit	OrchHit
132	Bass Hit Plus	BassHit
133	6th Hit	6thHit
134	Euro Hit	EuroHit

#### Brass & Saxophone

135	Trumpet	Trumpet
136	Dark Trumpet Soft	DarkTrp
137	Trombone	Trombone
138	Trombone 2	Trmbone2
139	Bright Trombone	BritBone
140	Tuba	Tuba
141	Muted Trumpet	MuteTrp1
142	Muted Trumpet 2	MuteTrp2
143	French Horn	FrHorn
144	French Horn 2 /warm	FrHorn2
145	Brass Section	Brass
146	Brass Section 2 /octave mix	Brass2
147	Brass Section 3	Brass3
148	Synth Brass 1	SynBras1
149	Synth Brass 2	SynBras2
150	Synth Brass 3	SynBras3
151	Synth Brass 4	SynBras4
152	Analog Synth Brass 1	AnaBras1
153	Analog Synth Brass 2	AnaBras2
154	Jump Brass	JumpBras
155	Soprano Sax	SprnoSax
156	Soprano Sax 2	SprnSax2
157	Alto Sax	AltoSax
158	Alto Sax 2	AltoSax2
159	Tenor Sax	TenorSax
160	Tenor Sax 2	TenoSax2
161	Baritone Sax	BariSax
162	Baritone Sax 2	BariSax2
163	Sax Band	SaxBand

#### Flute & Woodwind

164	Oboe	Oboe
165	Oboe 2	Oboe2
166	English Horn	EngHorn
167	English Horn 2	EngHorn2
168	Bassoon	Bassoon
169	Bassoon 2	Bassoon2
170	Clarinet	Clarinet
171	Clarinet 2	Clarine2
172	Piccolo	Piccolo
173	Piccolo 2	Piccolo2
174	Flute	Flute
175	Flute 2	Flute2
176	Sweet Flute	SweeFlut
177	Recorder	Recorder
178	Pan Flute	PanFlute
179	Sweet Pan Flute	SwPanFlu
180	Blown Bottle	Bottle
181	Shakuhachi	Shakhchi
182	Whistle	Whistle
183	Ocarina	Ocarina

#### Lead & Pad

184	Lead 1 /square	SquareLd
185	Lead 1a /square 2	SquarLd2
186	Lead 1b /sine	SineLead
187	Lead 2 /sawtooth	SawLead1
188	Lead 2a /sawtooth 2	SawLead2
189	Lead 2b /saw + pulse	SawPlsLd
190	Lead 2c /double sawtooth	DubSawLd
191	Lead 2d /sequenced analog	SquAnaLd
192	Lead 3 /calliope	CaliopLd
193	Lead 4 /chiff	ChiffLd
194	Lead 5 /charang	CharanLd
195	Lead 5a /wire lead	WireLead
196	Lead 6 /voice	VoiceLd
197	Lead 7 /fifths	FifthsLd
198	Lead 8 /bass + lead	BassLead
199	Lead 8a /soft wrl	SftWrlLd
200	Pad 1 /new age	NewAgePd
201	Pad 2 /warm	WarmPad
202	Pad 2a /sine pad	SinePad
203	Pad 3 /polysynth	PolySyPd
204	Pad 4 /choir	ChoirPad
205	Pad 4a /itopia	ItopiaPd
206	Pad 5 /bowed	BowedPad
207	Pad 6 /metallic	MetalPad
208	Pad 7 /halo	HaloPad
209	Pad 8 /sweep	SweepPad
210	Square	Square
211	Slow Square Lead	SlwSquLd
212	Sine Solo	SineSolo
213	Square Lead	SquareLd
214	Wavy Sawtooth	WavySaw
215	Super Analog	SuperAna
216	Big Lead	BigLead
217	Bauble Lead	BaubleLd
218	PWM 4th	Rezz4th
219	PWM 4th Soft	Rezz4thS

220	Synth Calliope Soft	CalioLdS
221	Chiffer Lead 2	ChiffLd2
222	Chiffer Lead 3	ChiffLd3
223	Charang 2	CharaLd2
224	Wire Lead 2	WireLd2
225	Charang 3	CharaLd3
226	Soft Vox	SVoiceLd
227	5th SawWave 2	FifthLd2
228	Fifth Lead Soft	FiftLdSf
229	Fifth Lead	FifLead
230	Massiness	Massin
231	Delayed Lead 2	DlyLead2
232	Delayed Lead 3	DlyLead3
233	New Age Pad 2	NewAgPd2
234	New Age Pad 3	NewAgPd3
235	Warm Pad 2	WarmPad2
236	PWM Pad	PWMPad
237	Warmly Pad	WarmlyPd
238	Poly Synth 2	PlySyPd2
239	Click Pad	ClickPad
240	Analog Pad	AnaloPad
241	Space Voice	ChoirPd2
242	Bowed Pad 2	BowedPd2
243	Bowed Pad 3	BowedPd3
244	Metallic Pad 2	MetalPd2
245	Pan Pad 1	PanPad1
246	Pan Pad 2	PanPad2
247	Halo Pad 2	HaloPad2
248	Halo Pad 3	HaloPad3
249	Sweep Pad 2	SweepPd2
250	Dipolar Pad	DipolPad
251	Rising	Rising
<b>FX &amp; Effects</b>		
252	FX 1 /rain	FXRain
253	FX 2 /soundtrack	Soundtrk
254	Prelude	Prelude
255	FX 3 /crystal	Crystal
256	FX 3a /synth mallet	SynMalet
257	Crystal 2	Crystal2
258	FX 4 /atmosphere	Atmosphr
259	Warm Air	WarmAir
260	FX 5 /brightness	Bright
261	Smog	Smog
262	FX 6 /goblins	Goblins
263	Goblin 2	Goblins2
264	FX 7 /echoes	Echoes
265	FX 7a /echo bell	EchoBell
266	FX 7b /echo pan	EchoPan
267	Echo Drops 2	Echoes2
268	Echo Bell 2	EchoBel2
269	FX 8 /sci-fi	Sci-Fi
270	Sci-Fi 2	Sci-Fi2
271	Guitar Fret Noise	FretNoiz
272	Guitar Cutting Noise	GtCtNoiz
273	Acoustic Bass String Slap	BsStSlap
274	Guitar Fret Noise 2	FreNoiz2
275	Guitar Cutting Noise 2	GtCtNoz2
276	Acoustic Bass String Slap 2	BsStSlp2

277	Breath Noise	BrthNoiz
278	Flute Key Click	FIKeyCik
279	Breath Noise 2	BrthNoz2
280	Flute Key Click 2	FIKeyCk2
281	Seashore	Seashore
282	Rain	Rain
283	Thunder	Thunder
284	Wind	Wind
285	Stream	Stream
286	Bubble	Bubble
287	Seashore 2	Seashor2
288	Bird Tweet	Tweet
289	Dog	Dog
290	Horse Gallop	HouseGlp
291	Bird Tweet 2	Tweet2
292	Telephone Ring	Telephone
293	Telephone Ring 2	Telphon2
294	Door Creaking	DoorCrek
295	Door	Door
296	Scratch	Scratch
297	Wind Chime	WindChim
298	Helicopter	Helicptr
299	Car Engine	CarEngin
300	Car Stop	CarStop
301	Car Pass	CarPass
302	Car Crash	CarCrash
303	Siren	Siren
304	Train	Train
305	Jetplane	Jetplane
306	Starship	Starship
307	Burst Noise	BurtNoiz
308	Applause	Applause
309	Laughing	Laughing
310	Screaming	Scream
311	Punch	Punch
312	Heart Beat	HeartBet
313	Footsteps	Footstep
314	Gunshot	Gunshot
315	Machine Gun	MachnGun
316	Lasergun	Lasergun
317	Explosion	Explosio
<b>Ethnic &amp; Combined</b>		
318	Sitar	Sitar
319	Sitar 2 /bend	Sitar2
320	Banjo	Banjo
321	Banjo 2	Banjo2
322	Shamisen	Shamisen
323	Shamisen 2	Shamise2
324	Koto	Koto
325	Taisho Koto	TaishoKt
326	Kalimba	Kalimba
327	Kalimba 2	Kalimba2
328	Bag Pipe	Bagpipe
329	Bag pipe 2	Bagpipe2
330	Fiddle	Fiddle
331	Fiddle 2	Fiddle2
332	Shanai	Shanai
333	Shanai 2	Shanai2

<b>Percussive &amp; Drum</b>		
334	Celesta	Celesta
335	Celesta 2	Celesta2
336	Glockenspiel 1	Glocken
337	Glockenspiel 2	Glocken2
338	Music Box	MusicBox
339	Music Box 2	MusicBo2
340	Vibraphone	Vibra
341	Vibraphone /wide	VibraW
342	Marimba	Marimba
343	Marimba /wide	MarimbaW
344	Xylophone	Xylophon
345	Xylophone 2	Xylopho2
346	Tubular Bells	TubulBel
347	Church Bell	ChurBell
348	Carillon	Carillon
349	Dulcimer	Dulcimer
350	Santur	Santur
351	Tinkle Bell	TnkIBell
352	Tinkle Bell 2	TnkBell2
353	Tinkle Bell 3	TnkBell3
354	Agogo	Agogo
355	Agogo 2	Agogo2
356	Agogo 3	Agogo3
357	Steel Drums	SteelDrm
358	Steel Drums 2	StelDrm2
359	Steel Drums 3	StelDrm3
360	Woodblock	WoodBlok
361	Castanets	Castanet
362	Woodblock 2	WoodBlo2
363	Castanets 2	Castant2
364	Woodblock 3	WoodBlo3
365	Castanets 3	Castan3
366	Taiko Drum	TaikoDrm
367	Taiko Drum 2	TaikDrm2
368	Taiko Drum 3	TaikDrm3
369	ConcertBass Drum	ConBasDm
370	ConcertBass Drum 2	ConBasD2
371	ConcertBass Drum 3	ConBasD3
372	Melodic Tom	MelodTom
373	Melodic Tom 2 /power	MeldTom2
374	Melodic Tom 3	MeldTom3
375	Synth Drum	SynDrum
376	Rhythm Box Tom	RhythBox
377	Electric Drum	ElecDrum
378	Electric Drum 2	ElecDrm2
379	Electric Drum 3	ElecDrm3
380	Electric Drum 4	ElecDrm4
381	Reverse Cymbal	RevCymbI
382	Standard Set	StandSet
383	Room Set	RoomSet
384	Power Set	PowerSet
385	Electronic Set	ElectSet
386	Analog Set	AnalgSet
387	Jazz Set	JazzSet
388	Brush Set	BrushSet
389	Orchestra Set	OrcheSet
390	SFX Set	SFXSet



No.	Full Name	Short Name
<b>8BEAT</b>		
1	8Beat Dance	8BtDance
2	8Beat Piano 1	8BtPian1
3	8Beat Piano 2	8BtPian2
4	Guitar Pop 1	GtPop1
5	8Beat Ballad	8BtBld
6	8Beat Pop	8BtPop
7	Pop Funk	PopFunk
8	Rhythm & Beat	Rhy&Bt
9	Guitar Pop 2	GtPop2
10	8Beat 1	8Beat1
11	8Beat 2	8Beat2
<b>16BEAT</b>		
12	Pop 16Beat 1	Pop16Bt1
13	16Beat R&B	16BtR&B
14	Pop 16Beat 2	Pop16Bt2
15	16Beat Funk 2	16BtFuk2
16	16Beat Dance	16BtDanc
17	Pop 16Beat 3	Pop16Bt3
18	16Beat 1	16Beat1
19	Cool Beat	CoolBeat
20	16Beat 2	16Beat2
21	Pop Shffle	PopShfl
<b>POP &amp; BALLAD</b>		
22	6/8 Pop	6/8Pop
23	Pop Dance	PopDance
24	Pop Fusion	PopFusn
25	Fusion Shuffle	FusShufl
26	Analog Night	AnalogNt
27	Pop Beat	PopBeat
28	Soft Ballad	SoftBald
29	Natural Ballad	NatulBld
30	Love Ballad	LoveBld
31	Slow Ballad	SlowBald
32	Sweet Pop	SweetPop
<b>ROCK</b>		
33	Slow Rock	SlowRock
34	Soft Rock	SoftRock
35	Pop Rock 2	PopRock2
36	Easy Rock	EasyRock
37	New Shuffle	NewShufl
38	R'N'R 1	R'N'R1
39	Rock Shuffle 1	RockShf1
40	Rock Shuffle 2	RockShf2
<b>BALLROOM</b>		
41	Twist	Twist
42	Big Band Fox	BandFox
43	Tango	Tango
44	Slow Fox	SlowFox
45	Slow Waltz 1	SlowWlz1
46	Salsa 1	Salsa1
47	Cha Cha 1	ChaCha1
48	Cha Cha 2	ChaCha2
49	Beguine 1	Beguine1
50	Rhumba 1	Rhumba1

51	Samba 1	Samba1
52	Samba 2	Samba2
53	Jive	Jive
<b>DANCE</b>		
54	Down Beat	DownBeat
55	Techno	Techno
56	Hip Hop 1	HipHop1
57	Rap	Rap
58	Disco Party	DscParty
59	Sky	Sky
60	Hip Hop 2	HipHop2
<b>SOUL &amp; FUNK &amp; JAZZ</b>		
61	Big Band	BigBand
62	Jay R&B	JayR&B
63	Gospel Swing	GopSwing
64	Groove Funk	GrooveFk
65	Hip Hop Beat	HipHopBt
66	R & B	R&B
67	Swing	Swing
68	Cool Jazz Ballad	CoolJzBd
69	Big Band 40's	Band40's
70	Modern Jazz Ballad	MdJzBald
71	Orchestra Swing	OrhSwing
<b>COUNTRY</b>		
72	Modern Country	ModernCt
73	Bluegrass	Bluegras
74	Country Pop 1	CntyPop1
75	Country Pop 2	CntyPop2
76	2/4 Country	2/4Cntry
77	Country Folk	CntyFolk
<b>LATIN/LATIN DANCE</b>		
78	Bossa Nova	BosaNov
79	Latin	Latin
80	Dance Reggae	DanReggae
81	Pasodoble	Pasodobl
82	Rumba 2	Rumba2
83	Pop Cha Cha	PChaCha
84	Salsa 2	Salsa2
<b>WALTZ &amp; TRADITIONAL</b>		
85	Waltz	Waltz
86	Italian Mazurka	ItaMazuk
87	Mariachi Waltz	MariWltz
88	Vienna Waltz	VinaWltz
89	Slow Waltz 2	SlowWlz2
90	Polka 1	Polka1
91	German Polka	GerPolka
92	March 1	March1
93	Polka 2	Polka2
94	US March	USMarch
95	Mazurka	Mazurka
<b>WORLD</b>		
96	Enka Ballad	EnkaBald
97	Venezia	Venezia
98	6/8 Flipper	6/8Flipp
99	Norteno	Norteno
100	Dangdut	Dangdut

No.	Full Name	Short Name
<b>FOLK &amp; COUNTRY</b>		
1	Christmas Sound	ChrisSou
2	Red River Valley	RedRiver
3	Susanna	Susanna
4	Wave Of Danube	Danube
5	Long Long Ago	LongAgo
6	Jambalaya	Jambalay
7	Bridge	Bridge
8	Battle Hymne Of The Republic	Battle
9	The Old Gray Mare	GrayMare
10	American Patrol	USPatrol
11	In The Rain	InRain
12	Sippin'Cider Through A Straw	SCTStraw
13	Country	Country
14	Old Folks at Home	OldFolks
<b>GOLDEN &amp; POP</b>		
15	On London Bridge	LdBridge
16	House Of Rising Sun	HouseSun
17	The Blue-Bells Of Scotland	BlueBell
18	It's Been A Long Long Time	LongTime
19	Edelweiss	Edelweis
20	Der Deitcher's Dog	DerDDog
21	Silent Night	SltNight
22	Ave Maria	AveMaria
23	Five Hundred Miles	FHMiles
24	It's Beginning To Look A Lot Like Christmas	LikeXmas
25	Jeanie With The Light Brown Hair	LighHair
26	Song Of The Pearlfisher	SongOfTP
27	The Stage Coach	TheStage
28	Entertainer	Entertai
29	Annie Laurie	AnnieLau
30	Rumba Romance	Romance
31	Last Rose Of Summer	LastRose
32	The Old King Cole	OldKingC
33	Auld Lang Syne	AuldLaSy
34	Ding! Dong! Merrily On High	DingDong
35	Christmas Coming	ChrisCom
36	Go Tell It On The Mountain	GoTellIt
<b>JAZZ &amp; FUSION</b>		
37	You Are My Sunshine	MySun
38	June Samba	JunSamba
39	Funk	Funk
40	I Can.....	ICan...
41	Sea Shore	SeaShore
42	Guitar&Saxophone	Gt&Sax
43	The Hip Hop's Night	HipHopNt
44	Blue Lunch	BluLunch
45	Cobweb	Cobweb
46	Wine	Wine
47	Jazz Old Man	JzOldMan
48	Dark Eyes	DarkEyes
49	Carlos	Carlos
50	Sad	Sad
51	Beautiful Awakening	Awaken
<b>PIANO</b>		
52	Fur Elise	FurElise

53	Robot Doll	RobtDoll
54	Habanera	Habanera
55	Turkish March	TukMarch
56	Consolation	Consolat
57	2-Part Invention #13 In A Minor.B.W. Iii	Invntion
58	Minuet In G Major (BWV Anh. 114)	MinuetG1
59	Turkish March 2	TukMarh2
60	Barcarolle	Barcarle
61	Norwegian Dance No.2	NwnDance
62	Moseta Dance	MosetaDn
63	Bulie Dance	BulieDn
64	The Small Gathering	Party
65	The Return	Return
66	The Wagtail	Wagtail
67	Tender Blossom	Blossom
68	Grace	Grace
69	Cherish The Memories	Memories
70	Chopsticks	Chopstik
71	Four Little Swans	FLSwans
72	Old France	OldFranc
73	Progress	Progress
74	Eclogue	Eclogue
75	The Limpid Stream	Stream
76	Brave Cavalier	Cavalier
77	The Chatterbox	Chatbox
78	Ave Maria 2	AveMari2
79	Prelude In C-Sharp Major	Prelude
80	Innocence	Innocenc
81	The Happy Farmer	HapFarme
82	L' Arabesque	L'Arabes
83	Austria Variation	AustVari
84	Schos Doll's Dance No. 7	DollDan7
85	The Rag-Time Dance	Rag-Time
86	Minuet In G Major (BWV Anh. 116)	Minuet
87	Schos Doll's Dance No. 2	DollDan2
88	Italian Polka	ItaPolka
89	Piano Sonata In C Major, K.330. III	Sonata
90	To A Wild Rose	WildRose
91	Gavotte I	Gavottel
92	Waltz	Waltz
93	Tarantella	Taratela
94	Inquietude	Inquietu
95	Frankness	Franknes
96	Mazurka	Mazurka
97	Tchaikovsky Waltz	TchWaltz
98	Harmony Of The Angels	Harmony
99	Gavotte	Gavotte
100	Neapolitan Song	Neapolit
101	Minuet In D Major	Minuet
102	Prelude In E Major	Prelude
103	The Chase	TheChase
104	Piano Sonata In A Major, K.331. I	Sonata2
105	Waltz For Piano In G-Sharp Minor	Waltz2
106	Moment Musical	Moment
107	Tender Grieving	Grieving
108	Waltzes	Waltzes
109	The Farewell	Farewell
110	Suite Dance	SuitDanc

No.	Full Name	Short Name
1	Ballad	Ballad
2	Funk	Funk
3	Jazz Band	JazzBand
4	Dancing Melody	DanceMld
5	Mystic River	MystRivr
6	Jazz Piano	JazzPiano
7	Dream Of Freedom	Dream
8	Fusion	Fusion

Chord Name (Abbreviation)	Normal Voicing	Chord	Display
Major [M]	1-3-5	C	C
Major sixth [6]	1-(3)-5-6	C6	C6
Major seventh [M7]	1-3-(5)-7	CM7	CM7
Major seventh sharp eleventh [M7#11]	1-(2)-3-#4-(5)-7	CM7#11	CM7#11
Major add ninth [Madd9]	1-2-3-5	CMadd9	CM(9)
Major ninth [M9]	1-2-3-(5)-7	CM9	CM7(9)
Major sixth add ninth [6 9]	1-2-3-(5)-6	C6 9	C6(9)
Augmented [aug]	1-3-#5	Caug	Caug
Minor [m]	1-b3-5	Cm	Cm
Minor sixth [m6]	1-b3-5-6	Cm6	Cm6
Minor seventh [m7]	1-b3-(5)-b7	Cm7	Cm7
Minor seventh flatted fifth [m7b5]	1-b3-b5-b7	Cm7b5	Cm7b5
Minor add ninth [madd9]	1-2-b3-5	Cmadd9	Cm(9)
Minor ninth [m9]	1-2-b3-(5)-b7	Cm9	Cm7(9)
Minor eleventh [m11]	1-(2)-b3-4-5-(b7)	Cm11	Cm7(11)
Minor major ninth [mM7]	1-b3-(5)-7	CmM7	CmM7
Minor major ninth [mM9]	1-2-b3-(5)-7	CmM9	CmM7(9)
Diminished [dim]	1-b3-b5	Cdim	Cdim
Diminished seventh [dim7]	1-b3-b5-6	Cdim7	Cdim7
Seventh [7]	1-3-(5)-b7	C7	C7
Seventh suspended fourth [7sus4]	1-4-5-b7	C7sus4	C7sus4
Seventh flatted fifth [7b5]	1-3-b5-b7	C7b5	C7b5
Seventh ninth [7 9]	1-2-3-(5)-b7	C7 9	C7(9)
Seventh sharp evelenth [7#11]	1-2-3-#4-(5)-b7 or 1-(2)-3-#4-5-b7	C7#11	C7(#11)
Seventh thirteenth [7 13]	1- 3-(5)-6-b7 or 2- 3-5-6-b7	C7 13	C7(13)
Seventh flatted ninth [7b9]	1-b2-3-(5)-b7	C7b9	C7(b9)
Seventh flatted thirteenth [7b13]	1-3-5-b6-b7	C7b13	C7(b13)
Seventh sharp ninth [7#9]	(1)-#2-3-(5)-b7	C7#9	C7(#9)
Major seventh augmented [M7aug]	1-3-#5-7	CM7aug	CM7aug
Seventh augmented [7aug]	(1)-3-#5-b7	C7aug	C7aug
Suspended fourth [sus4]	1-4-5	Csus4	Csus4
One plus two plus five [1+2+5]	1-2-5	C1+2+5	C

## MIDI

Function		Transmitted	Recognized	Remarks
Basic Channel	Default	1ch	1-16ch	
	Changed	1-16ch	1-16ch	
Mode	Default	×	3	
	Messages	×	×	
	Altered	*****	×	
Note Number		0—127	0—127	
	:True voice	*****	0—127	
Velocity	Note on	○ 9nH, V=1-127	○ 9nH, V=1-127	
	Note off	× (9nH, V=0)	× (9nH, V=0; 8nH, V=0-127)	
After Touch	key's	×	×	
	Ch's	×	×	
Pitch Bend		○	○	
Control Change	0	○	○	Bank Select
	1	○	○	Modulation
	5	×	○	Portamento Time
	6	×	○	Data Entry
	7	×	○	Volume
	10	×	○	Pan
	11	○	○	Expression
	64	○	○	Sustain Pedal
	65	×	○	Portamento ON/OFF
	66	×	○	Sostenuto Pedal
	67	×	○	Soft Pedal
	80	×	○	Reverb Program
	81	×	○	Chorus Program
	91	×	○	Reverb Level
	93	×	○	Chorus Level
	120	×	○	All Sound Off
	121	×	○	Reset All Controllers
123	○	○	All Notes Off	
Program Change	:true	○ *****	○ 0—127	
System Exclusive		×	○	
System Common	:SongPosition	×	×	
	:Song Select	×	×	
	:Tune	×	×	
System Real Time	:Clock	○	×	
	:Commands	×	×	
Aux Messages	:LOCAL ON/OFF	×	×	
	:All Notes Off	×	○	
	:Active sense	○	○	
	:Reset	×	○	
Notes:				

- Mode 1: OMNI ON, POLY
- Mode 2: OMNI ON, MONO

- Mode 3: OMNI OFF, POLY    ○: YES
- Mode 4: OMNI OFF, MONO    ×: NO

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