

KURTZMAN

K162

USER'S MANUAL

**61 KEYS LED
ELECTRONIC KEYBOARD**

INFORMATION FOR YOUR SAFETY!

THE FCC REGULATION WARNING (for USA)

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.
These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.
If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Unauthorized changes or modification to this system can void the user's authority to operate this equipment.

CAUTION

The normal function of the product may be disturbed by Strong Electro Magnetic Interference. If so, simply reset the product to resume normal operation by following the owner's manual. In case the function could not resume, please use the product in other location.

PRECAUTIONS

PLEASE READ CAREFULLY BEFORE PROCEEDING

Please keep this manual in a safe place for future reference.

Power Supply

Please connect the designated USB power adapter to an AC outlet of the correct voltage.

Do not connect it to an AC outlet of voltage other than that for which your instrument is intended.

Unplug the USB power adapter when not using the instrument, or during electrical storms.

Connections

Before connecting the instrument to other devices, turn off the power to all units. This will help prevent malfunction and / or damage to other devices.

Location

Do not expose the instrument to the following conditions to avoid deformation, discoloration, or more serious damage:

- Direct sunlight
- Extreme temperature or humidity
- Excessive dusty or dirty location
- Strong vibrations or shocks
- Close to magnetic fields

Interference with other electrical devices

Radios and televisions placed nearby may experience reception interference. Operate this unit at a suitable distance from radios and televisions.

Cleaning

Clean only with a soft, dry cloth.
Do not use paint thinners, solvents, cleaning fluids, or chemical-impregnated wiping cloths.

Handling

Do not apply excessive force to the switches or controls.

Do not let paper, metallic, or other objects into the instrument. If this happens, remove the electric plug from the outlet. Then have the instrument inspected by qualified service personnel.

Disconnect all cables before moving the instrument.

Appendix V Technical Specifications 12

■ Keys

- 61 keys standard keys

■ Display

- LED Display

■ Voice

- 300 kinds of voices

■ Rhythm

- 300 kinds of styles

■ Demo song

- 80 demo songs

■ Effect control

- Tempo, transpose, beat, sustain, vibrato, dual, split, touch

■ Other function

- 5 kinds of panel percussion, 61 kinds of keyboard percussion

■ Accompaniment control

- Start/stop, sync, fill in, intro/ending

■ Chord Mode

- Single chord, fingered chord, chord volume

■ Intelligent teaching

- One key teaching

■ Other control

- Power switch, master volume, rhythm volume

■ External jack

- DC12V input, headphone output, sustain pedal jack, USB MIDI

■ Diapason

- C2-C7

■ Intonation

- ≤5 cents

■ Dimensions

- 916x305x92mm

■ Net weight

- 3.80Kgs

■ Accessories provided

- Adapter, Music rest, User manual

Appendix IV Trouble Shooting

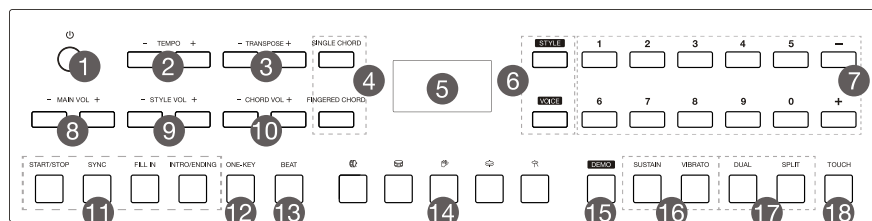
Trouble	Possible reason/eliminating method
Accompanied by noise whenever the power is switched ON or OFF.	This is normal. Please do not worry.
No sound while pressing any key with power switched on	Are the Master Volume control and accompaniment volume levels turned to the proper position? The internal speaker system is automatically shut off when some equipment is plugged to the headphone jack.
The sound is distorted or intermittent. More seriously, the instrument crashed.	In this case, unqualified DC-adaptor is probably in use or your batteries are probably flat and need replacement.
The note and note quality under the same voice are tiny different	This is normal. Perhaps the note with this tiny difference in note quality is initially adopted.
Sustain produces longer or shorter when used	This is normal. In this case, the best sustain effect for each note is initially set by the producer.
Master Volume and Accompaniment volume is changed	Are the Master control and accompaniment volume turned to proper levels?
The accompaniment key changes while you are playing synchronously.	Perhaps you accidentally pressed a key in the left-hand range. (left 19 keys of keyboard)
No sound, no LED display when AC-Power adapter is in use	Is there power available in power socket and the AC-adaptor is well plugged into power jack? Is the Power jack in good connection with AC-Power adapter
No sound, no LED display when the batteries are used	Are you sure the batteries are properly placed with Anode/cathode or perhaps the batteries are flat.
The speakers make noise when Mobil phone is used nearby	The mobile phone nearby should be switched off or placed far from the instrument. Perhaps the mobile phone interfere the instrument and cause the noise.

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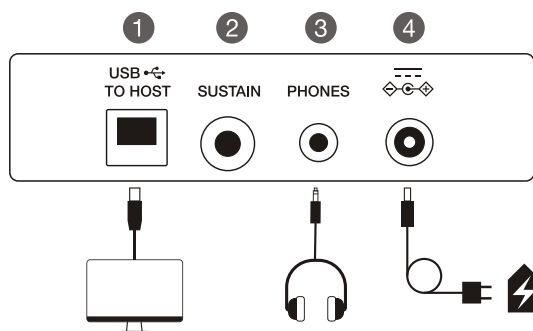
I. Panel Control and External Connections

I. Panel Control



- | | | | |
|---------------------------------|-------------------|---|----------------------|
| 1. Power Switch | 5. LED display | 10. Chord volume | 14. Panel percussion |
| 2. Tempo +/- | 6. Style, Voice | 11. Start/Stop, Sync, Fill in, Intro/Ending | 15. Demo |
| 3. Transpose +/- | 7. Number 0~9/+/- | 12. One-key | 16. Sustain, Vibrato |
| 4. Single chord, Fingered chord | 8. Master volume | 13. Beat | 17. Dual, Split |
| | 9. Style volume | | 18. Touch |

II. External Connections



1. [USB TO HOST]

Use this jack to connect the instrument to a PC or a mobile device using a USB cable (additional converter may be required). This allows for the transmission of MIDI and audio data between the instrument and the connected device.

2. [SUSTAIN] Pedal

Use this jack to connect a standard sustain pedal (sold separately).

3. [PHONES]

Use this jack to connect standard stereo headphones for private listening. When headphones are connected, the instrument's speakers will be muted.

Note: Avoid using headphones at high volume for extended periods to prevent ear fatigue or potential hearing damage.

4. [DC-IN]

Use this jack to connect the provided 12V power adapter to supply power to the instrument.

Appendix III Demo Songs

No.	Code of song	No.	Code of song	No.	Code of song
0	Heipanpo	27	Polonaise	54	Mozart no. 40
1	Nocturne	28	Katyusha	55	Susanna
2	In rain	29	Red River Valley	56	The fountain
3	Mirliton	30	Brandenburg Concertos	57	A Maiden's Prayer
4	Airg-string	31	Russian dance	58	The four seasons, spring
5	Canon	32	The lovely bug fly	59	Swan Lake
6	The first Christmas	33	The matador song	60	For Alice
7	Frosty	34	Cuckoo waltz	61	William Tell Overture
8	Minuet in G major	35	Old France	62	Smile Polka
9	Enter	36	Habanera	63	Spanish Gypsy Dance
10	Bach's Minute	37	Waltz of the Flowers	64	Turkish March
11	American Patrol	38	Fantasia off the cuff	65	Four little swan
12	Oh, the Christmas tree	39	Waltz in G flat major	66	Abide With Me
13	Oh, My Darling Clementine	40	Island di Capri	67	The song of the spring
14	Rudolph the Red Nose Reindeer	41	Carmen	68	Minute Waltz
15	Silver	42	Carmen Aragon	69	Gavotte
16	Beethoven Sonata	43	Carmen Overture	70	Schubert Serenade
17	O sole mio	44	Itsy Bitsy Spider	71	Serenade - Haydn
18	Piano concerto	45	Clementine sonata	72	Moments Musicaux
19	Winter	46	Croatian Rhapsody	73	Hungarian Dances
20	Long time ago	47	Radetzky March	74	Yankee Doodle
21	Romance De Amor	48	Blue Danube	75	Waltz
22	A concerto to love	49	Dream wedding	76	Pathetique iii
23	Music Box Dancer	50	The Magic Flute-overture	77	Italy polka
24	Annipolka	51	Mozart	78	Minuet
25	The river of Babylon	52	Santa Claus is coming to town	79	Melody in the rain
26	White Christmas	53	Christmas Eve		

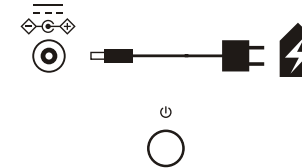
NO.	Style name	NO.	Style name	NO.	Style name	NO.	Style name
00	Beat 1	60	Soul 2	120	China 1	180	70'Rock
01	Beat 2	61	Soul 3	121	China 2	181	80'Rock
02	Beat 3	62	Soul 4	122	China 3	182	Middle Eastern rock
03	Beat 4	63	Soul 5	123	Thailand	183	Traditional rock
04	Beat 5	64	Newsoul	124	Mid east	184	Rock disco
05	Beat 6	65	Big band 1	125	Pop	185	Britpop1
06	Beat 7	66	Big band2	126	Love ballad	186	Britpop2
07	Beat 8	67	Blue grass	127	Easy Beat	187	NewRock
08	Beat 9	68	Jazz samba	128	Soft Beat	188	Modern dance1
09	Beat 10	69	Jazz waltz 1	129	Pop samba 1	189	Modern dance2
10	Beat 11	70	Jazz 1	130	Pop samba 2	190	Modern dance3
11	Beat 12	71	Jazz 2	131	Shuffle	191	Modern dance4
12	Beat 13	72	Swing 1	132	Jazz Band	192	Modern dance5
13	Beat 14	73	Swing 2	133	Shuffle 1	193	New century1
14	16beat 1	74	Swing 3	134	Shuffle 2	194	New century2
15	16beat 2	75	Jazz waltz 1	135	Slow folk	195	New century3
16	16beat 3	76	Merengue 1	136	Step	196	Rock Dance1
17	Rock 1	77	Merengue 2	137	16 ballad 1	197	Rock Dance2
18	Rock 2	78	Country 1	138	16 ballad 2	198	Jazz bachata1
19	Slow Rock	79	Country 2	139	Love ballad 1	199	Jazz bachata2
20	Country Rock	80	Country 3	140	Love ballad 2	200	Psychedelic1
21	Dance Rock	81	Country 4	141	Swing 1	201	Psychedelic2
22	Easy Rock	82	Country 5	142	Swing 2	202	Post Rock
23	Glam Rock	83	Country 6	143	Swing 3	203	Flexible Rock
24	Hard Rock 1	84	Country 7	144	Reggae	204	Goth Psychedelic
25	Hard Rock 2	85	Country waltz 1	145	Rhumba 1	205	SoulPsychedelic 1
26	Pop Rock	86	Country waltz 2	146	Rhumba 2	206	SoulPsychedelic 2
27	Rock+Roll	87	Slow Country 1	147	Rhumba 3	207	SoulPsychedelic 3
28	Rock Beat	88	Slow Country 2	148	Rhumba 4	208	SoulPsychedelic 4
29	Rock Folk	89	Slow Country	149	Salsa	209	Psychedelic swing
30	Rock Pop	90	Mambo 1	150	Samba 1	210	Funky_soul9
31	Hard Rock	91	Habanera	151	Samba 2	211	Reggae soul1
32	Hard 3beat	92	Vallenato	152	Cobmo	212	Reggae soul2
33	Plena	93	Baiao	153	Jorpo	213	Space
34	Dance 1	94	Bequine	154	Oriental Beat 1	214	Free Psychedelic 1
35	Dance 2	95	Bolero	155	Oriental Beat 2	215	Free Psychedelic 2
36	Dance 3	96	Bossanova1	156	Oriental Beat 3	216	Free Psychedelic 3
37	Dance 4	97	Lambada	157	Oriental Beat 4	217	Free Psychedelic 4
38	Dance 5	98	Mambo	158	Oriental Beat 5	218	Free jazz
39	Dance 6	99	Samba	159	Oriental Beat 6	219	Country Blues
40	Dance 7	100	Regal	160	Oriental Beat 7	220	Electric Blues
41	Dance 8	101	Rhumba	161	Oriental Beat 8	221	Folk-Blues
42	Dance 9	102	Tango 1	162	Oriental Beat 9	222	Jazz Blues
43	Dance 10	103	Bossanova2	163	Oriental Beat 10	223	Jump Blues
44	Bachata 1	104	Bossanova3	164	Oriental Beat 11	224	New Orleans Blues
45	Bachata 2	105	Bossanova4	165	Oriental Beat 12	225	New York Blues
46	Soul funk	106	Bossanova5	166	Oriental Beat 13	226	Piano Blues
47	Euro soul	107	Calypso	167	Oriental Beat 14	227	Soul-Blues
48	Funky soul 1	108	Tango 2	168	Classical beat 1	228	Urban Blues
49	Funky soul 2	109	Tango 3	169	Classical beat 2	229	Blues waltz1
50	Funky soul 3	110	March 1	170	Classical beat 3	230	Blues merengue1
51	Funky soul 4	111	March 2	171	JazzRock 1	231	Blues merengue2
52	Funky soul 5	112	March 3	172	JazzRock 2	232	Contemporary R&B1
53	Slow soul 1	113	March 4	173	Soft Rock	233	Contemporary R&B2
54	Slow soul 2	114	Polka 1	174	Classic Rock	234	Contemporary R&B3
55	Slow soul 3	115	Polka 2	175	Folk rock 1	235	Contemporary R&B4
56	Funky soul 6	116	Polka 3	176	Folk rock 2	236	Contemporary R&B5
57	Funky soul 7	117	Waltz 1	177	Waltz Rock	237	Deep Funk
58	Funky soul 8	118	Waltz 2	178	Heavy metal rock 1	238	Doo Wop
59	Soul 1	119	Waltz 3	179	Heavy metal rock 2	239	Left-Field Hip-Hop
						240	Motown
						241	Slow R&b 1
						242	Slow R&b 2
						243	Slow R&b 3
						244	Lyric R&b
						245	R&B march 1
						246	R&B march 2
						247	Afro-Beat
						248	Afro-Pop
						249	Celtic Pop
						250	Hawaiian Pop
						251	Indian Pop
						252	European Traditions
						253	World Fusion
						254	Asia samba
						255	Traditional Reggae
						256	Middle East tango 1
						257	Reggae-Pop
						258	Roots Reggae
						259	Reggae Beat 1
						260	Reggae Beat 2
						261	Dancehall
						262	Middle East tango 2
						263	Middle East tango 3
						264	Middle East tango 4
						265	Reggae March 1
						266	Reggae March 2
						267	Reggae March 3
						268	Reggae March 4
						269	Classical polka
						270	Mento
						271	Classical Waltz 1
						272	Classical Waltz 2
						273	Classical Waltz 3
						274	Chinese Classical 1
						275	Chinese Classical 2
						276	Chinese Classical 3
						277	Chamber pop
						278	Techno-Tribal
						279	Classical ballad 1
						280	Classical ballad 2
						281	Light ballad
						282	Pop classic
						283	Britpo samba 1
						284	Britpo samba 2
						285	Downtempo
						286	Big Beat
						287	Trip-Hop 1
						288	Trip-Hop 2
						289	Rhythm ballad
						290	Lyric step
						291	Lyric rhythm 1
						292	Lyric rhythm 2
						293	Slow ballad 1
						294	Slow ballad 2
						295	Xin jiang 1
						296	Xin jiang 2
						297	He nan
						298	Dong bei
						299	Shan bei

II. Before Performance

This instrument can be powered using either the provided adapter or by 6 pieces of AA (NO.5) batteries (or equivalent alkaline batteries). Follow the instructions below for each power option.

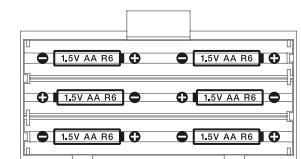
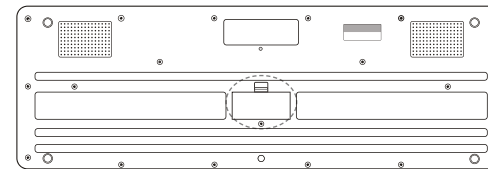
Power Supply

1. Before connecting the adapter and powering on, lower the volume of all connected devices.
2. Connect the adapter to the [DC-IN] jack on the rear interface.
3. Plug the other end of the adapter into an AC outlet, such as a wall jack.
4. Press the [POWER] button. The screen will illuminate, indicating that the instrument is powered on.
5. To power off the instrument, press and hold the [POWER] button for about half a second and then release it.



Using Batteries

1. Open the battery compartment located at the bottom center of the instrument.
2. Insert 6 pieces of AA (NO.5) batteries, ensuring correct alignment with the polarity markings.
3. Close the compartment securely to ensure proper battery contact.



Note:

1. Do not mix used and new batteries.
2. Always use the same type of batteries.
3. Remove the batteries when the instrument is not in active use to prevent power drain.

III. Basic Operation

I. Basic playing method

1.Master Volume

This keyboard has 9 levels volume from 00-08. The default value of the main volume is 07, press the "+" and "-". The main volume will increase or decrease correspondingly. And press "+" together with "-" the main volume will recover the default value automatically.

- MAIN VOL +



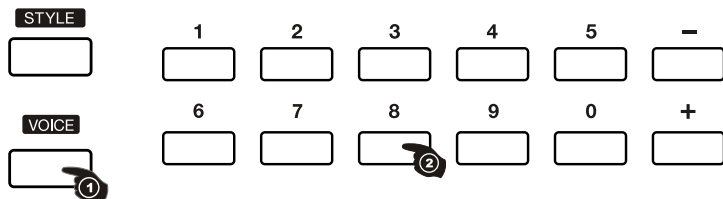
Note:

If the speakers do not produce sound, please check if the master volume is set too low or if headphones are plugged into the PHONES jack.

Voice

Selecting a Voice

This keyboard has 300 different kinds of voice. The default status for the instrument is VOICE. Press [VOICE.] button when the instrument is not in VOICE. status. Choose one of 300 voice shown on Voice List or by pressing the 0-9 number buttons or press "+/-" buttons to change it.



Effect and Control

1. Tempo

Press [TEMPO] button "+/-" to increase or decrease the tempo value for rhythm, metronome and demo song. There are 210 tempo value among the range of tempo value from 30-240 beats per minute.

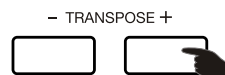
Press "+/-" buttons simultaneously to return to default status at 120 tempo value.



2. Transpose

Press [TRANSPOSE] button "+/-" to increase or decrease the transpose value up and down 6 levels and shift the pitch of entire keyboard up and down in semitone intervals.

Press the "+/-" buttons simultaneously to return to default status of keyboard tune.



3. Beat

Press [BEAT] button. The Beat sound be produced. Select one beat from 4 kinds of beats which is 1/4, 2/4, 3/4 and 4/4 when you play the instrument by pressing the button once more time for different beats.

BEAT



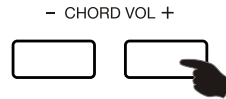
Appendix I Voice List

NO.	Name of voice	NO.	Name of voice	NO.	Name of voice	NO.	Name of voice	NO.	Name of voice
00	Acoustic Grand Piano	60	French Horn	120	Guitar Fret Noise	180	Bright Violin	240	Psychedelic Synth Lead
01	Bright Acoustic Piano	61	Brass Section	121	Breath Noise	181	Stringed violin	241	Vibraphone Synth Lead
02	Electric Grand Piano	62	Synth Brass 1	122	Seashore	182	Trill violin	242	Marimba Synth Lead
03	Honky-tonk Piano	63	Synth Brass 2	123	Bird Tweet	183	Electronic violin	243	Metal FX
04	Rhodes Piano	64	Soprano Sax	124	Telephone Ring	184	Large violin	244	Electronic FX
05	Chorused Piano	65	Alto Sax	125	Helicopter	185	rhythm Orchestra	245	Electronic String Ensemble
06	Harpsichord	66	Tenor Sax	126	Applause	186	Pizzicato Violin	246	Wind FX
07	Clavichord	67	Baritone Sax	127	Gunshot	187	Pizzicato Ensemble 1	247	Clarinet FX
08	Celesta	68	Oboe	128	Percussion	188	Pizzicato Ensemble 2	248	Organ FX
09	Glockenspiel	69	English Horn	129	Rhythm electric Piano	189	Percussion band	249	Crystal FX
10	Music box	70	Bassoon	130	Baritone Xylophone	190	Baritone Synth Contrabass	250	Synth Shamisen
11	Vibraphone	71	Clarinet	131	Clean Piano	191	Bass Flute	251	Electronic Shamisen
12	Marimba	72	Piccolo	132	Bright Dulcimer	192	Distortion Contrabass	252	Bright Sitar
13	Xylophone	73	Flute	133	Rhythm Grand Piano	193	Contrabass Lead	253	Whistle Accord
14	Tubular Bells	74	Recorder	134	Traditional Piano	194	Violin Lead	254	rhythm Nation
15	Dulcimer	75	Pan Flute	135	Aluminium jean	195	Cello Lead	255	Bright Koto
16	Hammond Organ	76	Bottle Blow	136	Rock Grand Piano	196	Pizzicato rhythm	256	Koto Lead
17	Percussive Organ	77	Shakuhachi	137	Electronic organ	197	high Harp	257	Diplophonia Koto
18	Rock Organ	78	Whistle	138	Psychedelic electronic	198	Harp ensemble	258	Baritone Koto
19	Church Organ	79	Ocarina	139	Water jean	199	Synth Harp	259	Synth Koto
20	Reed Organ	80	Lead 1 (square)	140	Bright Guitar	200	Baritone Trumpet	260	Environmental Lead
21	Accordion	81	Lead 2 (sawtooth)	141	Orchestra piccolo	201	Trumpet ensemble	261	Metal Lead
22	Harmonica	82	Lead 3 (caliope lead)	142	Heavy metal guitar	202	rhythm Trumpet	262	Orchestra Lead
23	Tango Accordion	83	Lead 4 (chiff lead)	143	Crystal guitar	203	high Trumpet	263	Glockenspiel Lead
24	Acoustic Guitar (nylon)	84	Lead 5 (charang)	144	Queer electric Piano	204	Synth Trumpet	264	Bass Lead
25	Acoustic Guitar (steel)	85	Lead 6 (voice)	145	Bright bass	205	Baritone Trombone	265	Fifths Lead
26	Electric Guitar (jazz)	86	Lead 7 (fifths)	146	Rock Electric Bass	206	Trombone ensemble	266	Wind Lead
27	Electric Guitar (clear)	87	Lead 8 (bass+lead)	147	Psychedelic Bass	207	rhythm Trombone	267	Atmosphere Lead
28	Electric Guitar (muted)	88	Pad 1 (new age)	148	Rhythm Electric Bass	208	high Trombone	268	Sharp Lead
29	Overdriven Guitar	89	Pad 2 (warm)	149	Heavy metal bass	209	baritone Trombone	269	Bright Lead
30	Distortion Guitar	90	Pad 3 (polysynth)	150	Magic electronic	210	Synth Trombone	270	East Nation Pad
31	Guitar Harmonics	91	Pad 4 (choir)	151	Bright violin	211	Violin French Horn	271	Atmosphere Pad
32	Acoustic Bass	92	Pad 5 (bowed)	152	Atonic violin	212	French Horn ensemble	272	Electric bass Pad
33	Electric Bass(finger)	93	Pad 6 (metallic)	153	Heavy bass orchestra	213	Electronic French Horn	273	electric Piano Pad
34	Electric Bass (pick)	94	Pad 7 (halo)	154	Synth clarinet	214	Synth French Horn	274	Clean Guitar Pad
35	Fretless Bass	95	Pad 8 (sweep)	155	Interactive Lead	215	Psychedelic Synth Brass	275	Western Pad
36	Slap Bass 1	96	FX 1 (rain)	156	orchestral keyboard	216	Distortion Synth Brass	276	Sci-fi Pad
37	Slap Bass 2	97	FX 2 (soundtrack)	157	Bagpipes	217	Vibraphone Synth Brass	277	Metal Sci-fi Pad
38	Synth Bass 1	98	FX 3 (crystal)	158	Synth Banjo	218	Synth Muted Trumpet	278	Clarinet Pad
39	Synth Bass 2	99	FX 4 (atmosphere)	159	Japan Synth	219	Rock Synth Brass	279	Electronic dance Pad
40	Violin	100	FX 5 (brightness)	160	Church Piano	220	Soprano Sax ensemble	280	Double Kalimba
41	Viola	101	FX 6 (goblins)	161	Church electric Piano	221	Hit Soprano Sax	281	Bright Kalimba
42	Cello	102	FX 7 (echoes)	162	Synth Piano	222	Synth Soprano Sax	282	Crystal Kalimba
43	Contrabass	103	FX 8 (sci-fi)	163	Baritone Piano	223	National Sax	283	Synth Kalimba
44	Tremolo Strings	104	Sitar	164	Piano PAD	224	Metal Sax	284	Electronic Bagpipe
45	Pizzicato Strings	105	Banjo	165	String Piano	225	Baritone Sax ensemble	285	Wind Bagpipe
46	Orchestral Harp	106	Shamisen	166	Metal Piano	226	Crystal Sax	286	high Bagpipe
47	Timpani	107	Koto	167	Light rhythm Piano	227	Soft Baritone Sax	287	Bright Bagpipe
48	String Ensemble 1	108	Kalimba	168	electric Piano Pad	228	Synth Baritone Sax	288	Orchestra Bagpipe
49	String Ensemble 2	109	Bagpipe	169	Classical piano	229	Heavy metal Sax	289	Baritone Bagpipe
50	Synth Strings 1	110	Fiddle	170	Guitar organ	230	Church Oboe	290	Environmental Shanai
51	Synth Strings 2	111	Shanai	171	An electric guitar	231	Bass Oboe	291	Baritone Shanai
52	Choir Aahs	112	Tinkle Bell	172	synthesis Nylon Guitar	232	Oboe ensemble	292	Tenor Shanai
53	Voice Oohs	113	Agogo	173	Synthetic electronic guitar	233	Bright Oboe	293	high Shanai
54	Synth Voice	114	Steel Drums	174	Bright clean Guitar	234	distortio oboe	294	Synth Shanai
55	Orchestra Hit	115	Woodblock	175	Orchestra Guitar	235	English Horn ensemble	295	Bright Steel Drums
56	Trumpet	116	Taiko Drum	176	Psychedelic Guitar	236	Pizzicato English Horn	296	Steel Drums Lead
57	Trombone	117	Melodic Tom	177	Bright organ	237	Diplophonia English Horn	297	Lyric Steel Drums
58	Tuba	118	Synth Drum	178	Pick organ	238	Bright English Horn	298	Orchestra Steel Drums
59	Muted Trumpet	119	Reverse Cymbal	179	Synth accordion	239	Synth English Horn	299	Synth Steel Drums

III. Basic Operation

3.Chord volume

The default chord volume is "07", Press [Chord Volume+/-] button, 9(0-8) levels chord volume can be adjusted. The LED has relative display when the volume was adjusted. Press this button again at the same time, the system will recover default chord volume automatically.



Demo

This Keyboard has 80pcs of different songs for your appreciation.

1. Press the [DEMO] button to enter into song mode. All songs will begin with loop play now. The default song is "d00" song. You can use 0~9 number buttons and "+/-" to choose your favourite songs.

2. Press the [DEMO] or [START/STOP] button again to stop playing.



Teaching function

Press the [ONE-KEY] button one time to enter into one key teaching mode then press the number keys or the "+/-" button to select different teaching Songs.

1. One key teaching: Only there is key pressed, then the demo will be continued. Otherwise, the demo will be stopped. No matter you play correctly or not, the song will be automatically played continuously

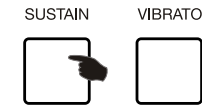


III. Basic Operation

4.Sustain

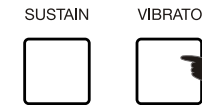
Press [SUSTAIN] button, the sustain can add slow, natural decay to the tone, it can make tone effect of some musical instruments to be more vivid.

Press the button again, the sustain function will be closed.



5.Vibrato

Press [VIBRATO] button, the Vibrato effect will be produced by pressing the black/white keys. Press the button again, the vibrato function will be closed.



6.Dual

Press [DUAL] button in normal state, the keyboard enters into dual voice mode. It is one note was composed by two kinds of tones. First tone is the tone before pressing [DUAL] button, second tone is choosed tone after pressed the button.



7.Split

Press [SPLIT] button to divide keyboard into left-hand keyboard and right-hand keyboard. The left 24keys will be left-hand keyboard and the rest part of keys will be divided as right-hand keyboard. The voice on right-hand keyboard can be selected by pressing the number on numeric group buttons. The voice on left-hand keyboard is initially set by producer. Press the button once again to turn Split effect off.



8.Touch

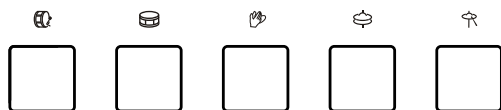
This instrument is provided with touch response. Once powered, touch function will be automatically started. Now when you perform the instrument with different touches, this instrument will emit different volumes. Press the [TOUCH] button, the touch function will be off. Press the [TOUCH] button again, the touch function will be restarted.



III. Basic Operation

9. Panel Percussion

Select one of the Percussion button in 5 buttons and press it in accordance with the list as follows (total 5 kinds of percussion available for this instrument) to produce the percussion accordingly when you play.



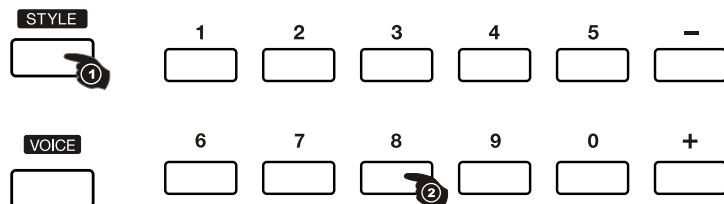
Panel percussion list

Bass Drum H Hard	Snare L	Hand Clap	Open Hi-hat	Crash Cymbal

Rhythm Accompaniment and its Functions

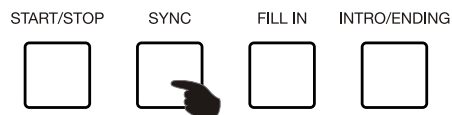
1. Selecting a Style

1. Press the [STYLE] button. Enter the STYLE mode.
2. Use the number keys, the "+/-" buttons to select the style you want to play.
3. Press the [START/STOP] button to start the style tracks of the auto accompaniment.



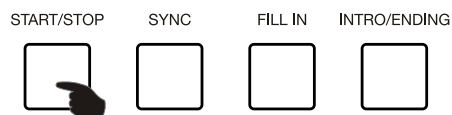
2. Sync

Press [SYNC] button to start the Sync effect and press any key of left 19 keys to have Rhythm synchronously. Press [SYNC] button to end sync effect when sync effect is running.



3. Start/stop

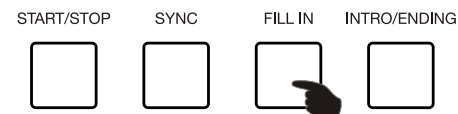
Press [START/STOP] button to start and select the rhythm from 0 to 299 in accordance with the appendix by pressing the number buttons in number buttons or by pressing "+/-" button to select the accompaniment.



III. Basic Operation

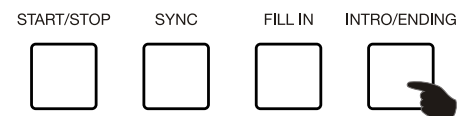
4. Fill in

Press [FILL IN] button to add a short fill in rhythm variation at any time while the rhythm is playing. Then the normal Rhythm will begin from next measure.



5. Intro/Ending

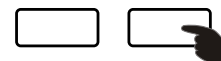
Press [INTRO/ENDING] button before rhythm was started, this keyboard will perform a length of relative intro, then, returns back to relative normal rhythm. Press this button after rhythm was started, the keyboard will perform a length of relative ending to stop.



6. Style Volume

There are 8 levels of style volume. The default level of style volume is 07. Press + or - button to adjust the style volume while the selected volume being displayed on digital display. Press the + and - button simultaneously to recall the volume to default status.

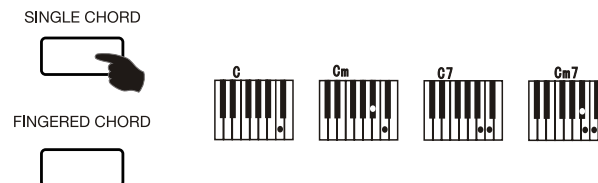
- STYLE VOL +



Chord mode

1. Single chord

When style is started, press [SINGLE CHORD] button to enter the function of single finger auto chord. Now in 1~19 keys of chord area, applying different fingerings to hear different chord Accompaniments, press [START/STOP] button to exit this function. Please refer to the chord program as below.



2. Fingered chord

When style is started, press [FINGERED CHORD] button to enter the function of fingered auto bass chord. Now in 1-19 keys of chord area, applying different fingerings to hear different chord accompaniments. Press [START/STOP] button to exit this function.

