



Operating Instructions

ARK-2178

**61-Key Multifunction Teaching-Type
Digital Electronic Organ**



Caution

The following requirements shall be observed to avoid hurting yourself Or anybody else as well as damaging of peripheral devices. The intensions will include(but not limited to) the followings:

Cautions

AC/DC adapter:

- Please use specified AC/DC Adapter, otherwise fault adapter may cause damage of your electronic organ.
- Do not place AC adapter or power cord near heating source such as central heating or heat radiator.
- Do not overbend wire and place heavy matters on wire or wind wire with other matters to avoid damaging wire.
- Regularly check power plug and clean surface dirt. Do not pull out power plug with wet hand.

Do not open the casing of electronic organ:

- Do not open the casing of electronic organ and try to disassemble any part of it, nor make any change to it. Should any abnormal function occur in use, please stop operating it immediately and send it for repair by qualified servicemen.

Location of placing electronic organ:

- Do not place the electronic organ in an environment of dusty, vibrating, low or high temperature (such as exposed to direct sunshine, near central heat or in the car exposed under sunshine) to avoid damaging appearance or internal part.
- Do not put the electronic organ in an unstable place to avoid falling. Do not put any vessel holding liquid on the electronic organ to avoid liquid flowing in it and impairing internal part.

Maintenance:

- To clean the body of the electronic organ, wipe it with dry soft cloth. Do not use paint, dope, organic solvent or chemically impregnated cloth.

Connection of peripheral device:

- In order to prevent speaker from damaging, please adjust the volume of peripheral device to the lowest and after music is gradually played, adjust to appropriate volume.

Caution in operation:

- Do not perform the organ with the loudest or uncomfortable volume to avoid decline in hearing.
- Do not place heavy matters on the electronic organ, nor press keyboard, switch and socket With heavy force.
- The package shall be opened by adult to avoid the danger of suffocating infant or children. Please properly store or dispose the plastic package after unpacking. The matters contained are not suitable for using by the children under 3 years old.

Notice

- Specifications are subject to change without notice.
- Should any description of product function be not specified in detail or some typing error occur, Please forgive us.
- What is displayed in LCD in this instruction is only for the purpose of explanation and may be different with actual display in your electronic organ.
- This company retains the right which needs to revise because of the duty and finally interp retation.

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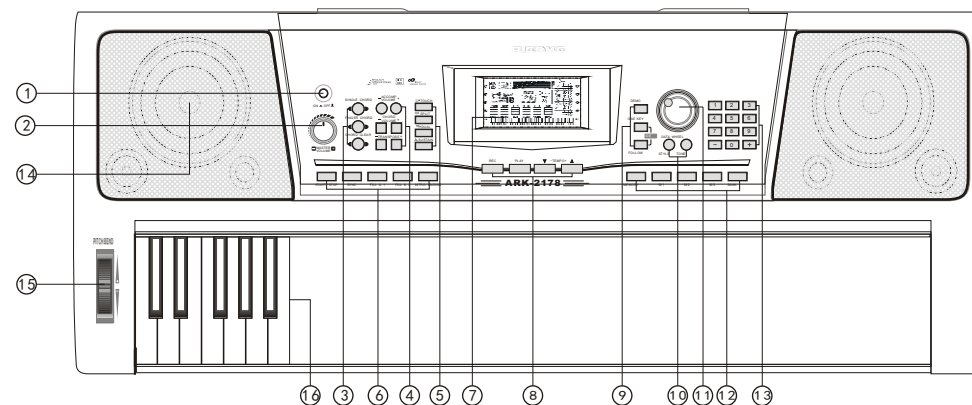
Standard
• GB/T12105-1998 GB 8898-2001 GB13837-2003 GB17625. 1-2003
Display
• LCD display
Tone
• 128 tones
Rhythm
• 128 selected auto accompaniments
Demo song
• 12 demo songs
Effect control
• Touch, Split, Dual, Sustain, Transpose, Data Wheel, Pitch Bend
Record
• Record, Play
Guide
• One key Guide, Follow Guide
Accompaniment control
• Start/Stop, Sync, Fill-in1, Fill-in2, Intro/Ending
Chord control
• Single chord, Finger chord, Chord Clear
Other controls
• Power jack, Volume control, Accompaniment volume
External port
• DC 12V power jack, Head phone, Line out
Diapason
• C3~C8
Accuracy in musical tuning
• ≤3cent
Specifications
• 980×390×130 (mm)
Weight
• 5.4Kg
DC input
• DC12V
Output power
• 6W×2
Quiescent current
• 140mA
Parts provided with electronic organ
• AC/DC adapter, music stand and Operation Instructions

NO.	Code of song	NO.	Code of song
01	Turkish March	07	The Song Of Season
02	Impromptu	08	Serenade
03	Red River	09	Lieder
04	Oh Susanna	10	Katiollia
05	American Patrol	11	Espano
06	Haw-Tree	12	Mozart Piano Sonata

Appendix IV. Trouble Shooting

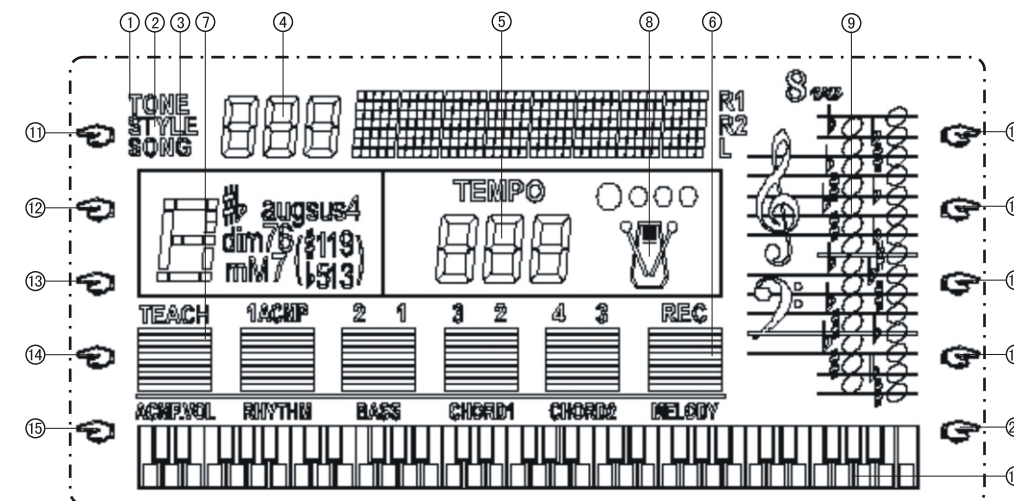
Trouble	Possible reason/eliminating method
Accompanying a little noise in turning ON/OFF power.	Normal phenomenon. Please do not worry.
After turning on power, press keyboard but no sound can be emitted.	Check whether volume control key is at proper position or headphone jack is held by other equipment to break off built-in speaker system.
Distorted or discontinued sound, or even system halted.	Using unqualified AC adapter or low batteries. Please use the AC adapter provided with this electronic organ or replace batteries.
The note and its tone for a same voice are a little different.	This is normal phenomenon caused by different voice sampling diapason.
When using Sustain function, some tones have long sustain but some have short sustain.	This is normal phenomenon since the sustains of different tones are set to optimum lengths.
Abnormal in volume or accompaniment volume.	Check whether volume control and accompaniment volume control are in proper setting.
In SYNC status, auto accompaniment does not work.	Check whether Single chord or Finger chord is set, now pressing a note at left-hand keyboard area (19 keys in the left of keyboard)
When using AC adapter, the electronic organ does not emit sound after startup and indicating LCD does not light up.	Check whether power socket is energized, AC adapter is well plugged, poor connection of power socket or inadequate power voltage.
When using batteries, the electronic organ does not emit sound after startup and indicating LCD does not light up.	Check whether battery polarity is correct and batteries have run down.
The pitch of note is not correct.	Check whether the parameter of Transpose is "00".
When using mobile phone, the electronic organ will emit noise.	Mobile phone can disturb the electronic organ. To avoid the noise, turn off the mobile phone or use it far away.

Panel Control



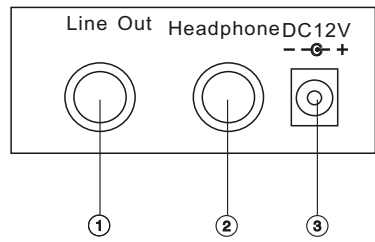
- 1. On/Off
- 2. Master Volume
- 3. Single Chord/Finger Chord/Chord Clear
- 4. Accomp Volume/Chord Volume/Transpose
- 5. Touch/Split/Dual/Sustain
- 6. Start/Stop/Sync/Fill in 1/Fill in 2/Intro/Ending
- 7. LCD Display
- 8. Rec/Play/Tempo
- 9. Demo/One key Guide/Follow Guide
- 10. Style/Tone
- 11. Data Wheel
- 12. Memory/M1/M2/M3/Bank
- 13. Data Wheel
- 14. LCD Display
- 15. Speaker
- 16. Pitch Bend

LCD Screen Legend



- 1. Tone
- 2. Rhythm
- 3. Song
- 4. Digit display
- 5. Tempo display
- 6. Chord Volume
- 7. Accompaniment volume
- 8. Metronome
- 9. Staff
- 10. B/W key display
- 11. Single chord
- 12. Finger chord
- 13. Guide
- 14. Sustain
- 15. Vibrato
- 16. Touch
- 17. Keyboard split
- 18. Dual voice
- 19. Rec
- 20. Program

External Function



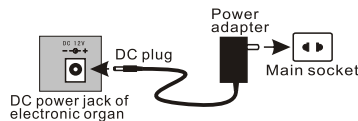
1. Line Out
2. Headphone
3. DC 12V input

Preparation before performance

Power

1. Use AC/DC power adapter:

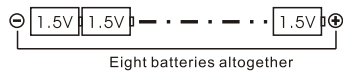
Please use the special AC/DC power adapter provided with this electronic organ or the power adapter with DC 12V voltage and 500mA out current and with central anode. Connect the DC plug of power adapter into the DC12V power socket in the rear of electronic organ. then connect the other end into main socket (see that the input voltage of power adapter conform to the voltage of electric supply), finally turn on power switch and start performance.



Caution:When you do not use this electronic organ for a long term, you should pull out the plug of power adapter from main socket safely to avoid possible causing trouble of part or other accident in long-term charging.

2. Use of Batteries:

Open the battery lid in the bottom of electronic organ and load eight 1.5V Size D batteries, Ensuring the polarity should conform to the direction marked on battery lid. Replace the lid after loading batteries.



Caution:Do not use batteries of different kinds and mix new and old batteries. Low batteries will cause low volume or poor timbre and replace batteries at that time. To avoid possible damage caused by battery liquid leakage, please take out batteries if you will not use the electronic organ for a long term.

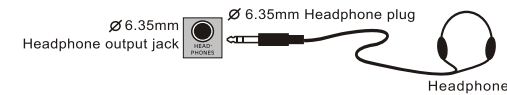
No.	Name of Rhythm	No.	Name of Rhythm	No.	Name of Rhythm	No.	Name of Rhythm
01	Club Pop	35	Pop Waltz	69	Calypso	103	Disco Party
02	16 Beat Pop	36	USA March	70	Guad Dance	104	Disco Samba
03	8 Beat Pop	37	Hully Gully	71	Reggae 12Beat	105	UK Pop
04	8 Beat Soul	38	Tarantella	72	Reggae 16Beat	106	Club Dance
05	8 Beat Rock	39	Limbo Rock	73	Slow Rock 1	107	Modern R&B
06	Rap Pop	40	Swing Waltz	74	Slow Rock 2	108	Hip Shuffle
07	Pop Rock	41	Pub Piano	75	Slow Rock 3	109	Charleston
08	60's Soul	42	Jazz Waltz 1	76	Slow Soul	110	Disco Pop
09	70's Soul	43	Jazz Waltz 2	77	8 Beat Adria	111	Disco Soul
10	Funk	44	Show Tune	78	Classic Piano	112	Disco Trot
11	16 Beat Shuffle	45	Polka	79	Unplugged	113	Euro Beat
12	Twist	46	Waltz	80	Pop Ballad	114	Rap
13	British Pop	47	Cha Cha	81	Pop New Age	115	Rave
14	Hard Rock	48	Rumba	82	8 Beat Modern	116	Big Band Shuffle 1
15	Fusion	49	Jive	83	Country Ballad	117	Big Band Shuffle 2
16	Funk Shuffl	50	Pasodoble	84	Love Song	118	Big Band Shuffle 3
17	Fusion Shuffl	51	Samba 1	85	Modern Country Pop	119	Fast Band 1
18	Rock'n Roll 1	52	Samba 2	86	Electro Pop	120	Fast Band 2
19	Rock'n Roll 2	53	Schlager Rock 1	87	Acoustic Ballad	121	Cat Groove
20	Straight Rock	54	Schlager Rock 2	88	Piano Ballad	122	Dixie Jazz
21	Jazz Rock	55	Fox Trot	89	R&B Ballad	123	Medium Jazz
22	Fast Gospel	56	Viennese Waltz	90	Rock Ballad	124	Jazz Big Band
23	Folk Rock	57	Tango 1	91	Slow&Easy	125	Jazz Club
24	Rock Billy	58	Tango 2	92	Analog Ballad	126	Ragtime
25	Rock Boogie	59	Bossanova	93	E-Ballad	127	Country 1
26	Rock Cha Cha	60	Mambo 1	94	Techno 1	128	Country 2
27	Rock Classical	61	Mambo 2	95	Techno 2		
28	Rock Shuffle	62	Bolero	96	Funky Disco		
29	Rock Pop	63	Cumbia	97	Saturday Night		
30	Ober Polka	64	Latin Rock	98	Club Latin		
31	Polka Pop	65	Disco Latin	99	Disco Chocolate		
32	Blue Grass	66	Tijuana	100	Disco Fox		
33	Blue Grass 2	67	Reggae	101	Disco Funk		
34	Blue Grass 3	68	Salsa	102	Disco Hands		

No.	Name of Voice	No.	Name of Voice	No.	Name of Voice	No.	Name of Voice
01	Acoustic Grand Piano	35	Electric Bass (pick)	69	Oboe	103	FX 7 (echoes)
02	Bright Acoustic Piano	36	Fretless Bass	70	English Horn	104	FX 8 (sci-fi)
03	Electric Grand Piano	37	Slap Bass 1	71	Bassoon	105	Sitar
04	Honky-tonk Piano	38	Slap Bass 2	72	Clarinet	106	Banjo
05	Rhodes Piano	39	Synth Bass 1	73	Piccolo	107	Shamisen
06	Chorused Piano	40	Synth Bass 2	74	Flute	108	Koto
07	Harpichord	41	Violin	75	Recorder	109	Kalimba
08	Clavichord	42	Viola	76	Pan Flute	110	Bagpipe
09	Celesta	43	Cello	77	Bottle Blow	111	Fiddle
10	Glockenspiel	44	Contrabass	78	Shakuhachi	112	Shanai
11	Music box	45	Tremolo Strings	79	Whistle	113	Tinkle Bell
12	Vibraphone	46	Pizzicato Strings	80	Ocarina	114	Agogo
13	Marimba	47	Orchestral Harp	81	Lead 1 (square)	115	Steel Drums
14	Xylophone	48	Timpani	82	Lead 2 (sawtooth)	116	Woodblock
15	Tubular Bell	49	String Ensemble 1	83	Lead 3 (calliope lead)	117	Taiko Drum
16	Dulcimer	50	String Ensemble 2	84	Lead 4 (chiff lead)	118	Melodic Tom
17	Drawbar Organ	51	Synth Strings 1	85	Lead 5 (charang)	119	Synth Drum
18	Percussive Organ	52	Synth Strings 2	86	Lead 6 (voice)	120	Reverse Cymbal
19	Rock Organ	53	Choir Aahs	87	Lead 7 (fifths)	121	Guitar Fret Noise
20	Church Organ	54	Voice Oohs	88	Lead 8 (bass+lead)	122	Breath Noise
21	Reed Organ	55	Synth Voice	89	Pad 1 (new age)	123	Seashore
22	Accordion	56	Orchestra Hit	90	Pad 2 (warm)	124	Bird Tweet
23	Harmonica	57	Trumpet	91	Pad 3 (polysynth)	125	Telephone Ring
24	Tango Accordion	58	Trombone	92	Pad 4 (choir)	126	Helicopter
25	Acoustic Guitar (nylon)	59	Tuba	93	Pad 5 (bowed)	127	Applause
26	Acoustic Guitar (steel)	60	Muted Trumpet	94	Pad 6 (metallic)	128	Gunshot
27	Electric Guitar (jazz)	61	French Horn	95	Pad 7 (halo)		
28	Electric Guitar (clean)	62	Brass Section	96	Pad 8 (sweep)		
29	Electric Guitar (muted)	63	Synth Brass 1	97	FX 1 (rain)		
30	Overdriven Guitar	64	Synth Brass 2	98	FX 2 (soundtrack)		
31	Distortion Guitar	65	Soprano Sax	99	FX 3 (crystal)		
32	Guitar Harmonics	66	Alto Sax	100	FX 4 (atmosphere)		
33	Acoustic Bass	67	Tenor Sax	101	FX 5 (brightness)		
34	Electric Bass (finger)	68	Baritone Sax	102	FX 6 (goblins)		

Fitting Jack

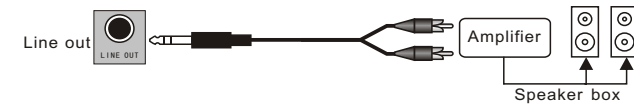
1. Use of headphone:

Connect headphone plug into “HEADPHONE” jack in the rear of electronic organ. now the internal speakers are automatically switched off. Use of headphone in performance does not interfere with anybody else, suiting personal monitor and exercising at night.



2. Connection with Amplifier or Hi-Fi Equipment:

This electronic organ has built-in speaker system. Alternatively, it can also be connected to any external amplifier or hi-fi equipment. First turn off the switch of electronic organ and external equipment, then insert one end of stereo audio cable into LINE IN or AUXIN jack of other hi-fi equipment and connect the other end into LINE OUT jack in rear panel of electronic organ.



Basic Operation

III. Basic Operation

1. Turn on power switch:

After AC adapter is connected or batteries installed correctly, press power button to turn on “POWER SWITCH”. Press POWER button once again to turn off power switch of electronic organ



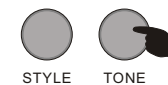
2. Master Volume:

The default status at startup is “VOICE”. If current status is not tone, you need to press “VOICE” key. You can directly input a tone by pressing 0~9 buttons or



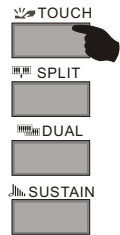
3. Tone Select:

The default status at startup is “TONE”. If current status is not tone, you need to press “TONE” key. You can directly input a tone by pressing 0~9 buttons or “+/-” buttons.

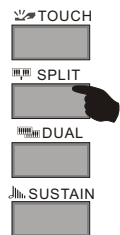


Effect & Control**1. Touch:**

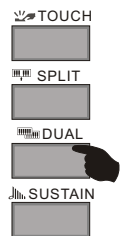
This electronic organ is touch keyboard. At startup, touch function will be started automatically. When you press keyboard with different touches, the electronic organ will emit different volume. Press "TOUCH" key to cancel touch function and keyboard touch will disappear. Press "TOUCH" key once again to restart touch function.

**2. Split:**

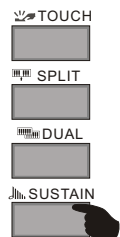
In "KEYBOARD SPLIT" mode, the 24 keys in left hand keep the voices before keyboard splitting while the rest keys in right hand may adjust other voices by pressing digital buttons.

**3. Dual:**

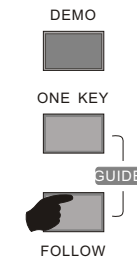
Under normal status, press DUAL button to enter the mode of dual voice. Namely each note is composed by two voices, The first voice is the voice before you press dual voice button, and the second voice is the voice you select after pressing dual voice button.

**4. Sustain:**

Press "SUSTAIN" button to start sustain function, Now performance with B/W keys will produce sustain effect. Press "SUSTAIN" button once again to exit the function.



2. Guide-follow: when pressing the key, you can follow the key corresponding to the note displayed on LCD, melody will be blocked, if you do not press any key in 3 seconds melody will be restored for your guide.

**Status Memory**

This instrument is provided with registration memory function that can be used to save your favorite settings for the purpose to recalling them easily, By pressing BANK button, you can select between three memory groups and Team1 2 3 will be displayed in LCD.

By pressing and holding Store button, Press any key of M1-M4 to execute data saving operation (panel parameters to be saved: style and related function, voice and effect control), If you save the panel setting in the memory position including previous data, the new data will replace the previous data.



Record Function

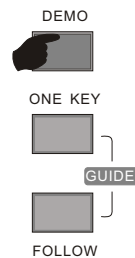
1. Press "RECORD" button to enter record mode. You can hear metronome sound and the preset tempo is 120. Now press any key or drum key to start recording. The maximum record quantity is 180. When the maximum quantity is reached, metronome sound will be stopped and record cannot be continued. During recording, press any playing key to play the record. Whenever you press this button, the memory in previous record will be cleared and you will re-enter record mode.



2. Press PLAY button to begin playing records.

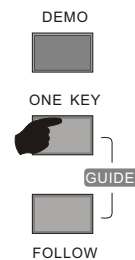
**Demo Song Playing**

After pressing "DEMO SONG" button, press demo one button to enter the mode of demo song selection. You can select demo songs by inputting digits such as 04, 05 or pressing +/- buttons. You can also enter the mode of demo song selection by pressing Demo all button. Press start/stop button to stop playing.

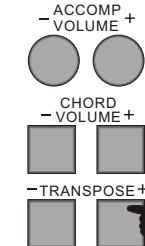
**Guide**

Press "GUIDE" button to enter guide mode and press white keys to select demo songs. Press GUIDE button once again to exit guide mode. In the course of playing, press voice button to change current voice.

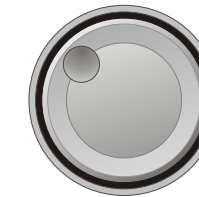
1. "Guide-one Key". when you press any key no matter correct or not, the electronic organ shall emit correct melody note and repeat its accompaniment in One-key-One-Note mode.

**5. Transpose:**

Press "TRANPOSE" +/- button you may lift or lower tone corresponding to the tone of B/W keys in your performance and can lighten or lower ± 6 levels, press transpose + and - keys simultaneously to restore the default value "00" automatically.

**6. Data Wheel:**

数据轮可以在弹奏本电子琴时方便的调出自己喜欢的音色或节奏,当转动数据轮时,LCD则有相应的显示,以便于快速选出自己想要的音色或节奏。



DATA WHEEL

7. Pitch Bend:

When you push "PITCH BEND" wheel during performance, the note emitted from keyboard will produce an effect of pitch bend. By pushing the wheel upwards or downwards note will gradually change higher or lower. Loosen the wheel to restore original standard tone.

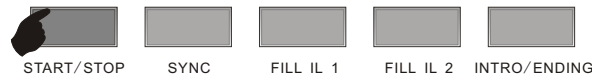
**Style & Style Function****1. Select Style:**

This electronic organ has 128 rhythms for your choice. For detailed rhythm table, refer to Appendix. Press "STYLE" button to enter Style selection function. LCD displays current rhythm number. To select rhythm throughout 001-127 input two digits with digit buttons or select with +/- buttons.



2. Start/Stop:

In default setting, press the button to play rhythm. Press “START/STOP” button to exit other functions.



3. Sync:

Press “SYNC” button to start sync accompaniment function and press any key of 19 keys in left hand to start rhythm synchronously. If chord function is started, press any key of 19 keys in chord area to start auto chord synchronously. If a rhythm is being played, press “SYNC” button to stop rhythm and start sync accompaniment function. If sync function has been started, press “SYNC” button to exit sync function.



4. Fill-in1/Fill-in2:

You may press “FILL-IN” button to insert a fill-in during rhythm play to enhance the performance of effect, then restore to original rhythm.



5. Intro/Ending:

When you press “INTRO/ENDING” button, an intro will be played, and then restore to normal rhythm play, when you press intro/ending button during rhythm play, the rhythm play will be finished after an ending is played.



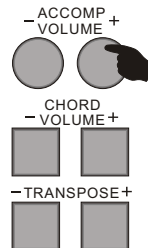
6. Tempo Adjustment:

Press “Tempo” +/- buttons to adjust the playing tempo of rhythm, metronome and demo songs in the range of 30-240, the default tempo is “120”.



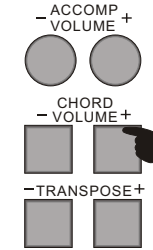
7. Accompaniment Volume Adjustment:

The default “ACCOMPANIMENT VOLUME” is 16 and can be adjusted by pressing volume +/- buttons. During adjustment, LCD gives correspondent display. Press volume +/- buttons simultaneously to restore default setting of accompaniment volume automatically.



8. Chord Volume Adjustment:

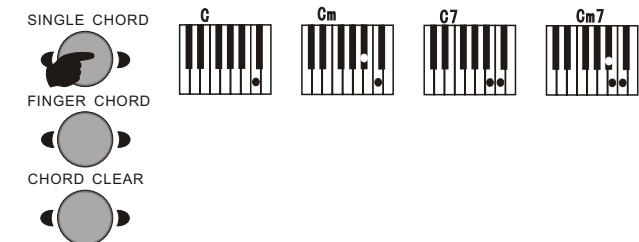
The default Chord Vol is 16, by pressing + or - key can adjust chord volume, during adjustment the corresponding value will be displayed in LCD, press CHORD VOL +/- buttons simultaneously to restore the default Chord Vol setting automatically.



Chord Accompaniment

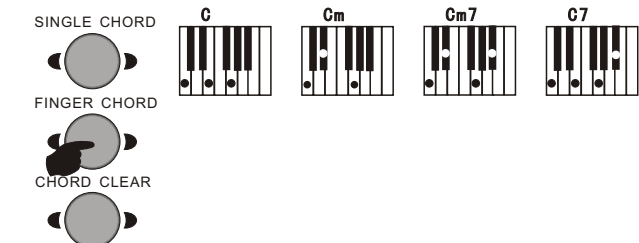
1. Single Chord:

When rhythm is started, press “SINGLE CHORD” button to enter the function of single auto chord, Now in chord area 1~19 keys apply different fingerings to hear different chord accompaniments, Press start/stop button to exit this function.



2. Finger Chord:

When rhythm is started, press “FINGER CHORD” button to enter the function of finger auto bass chord. Now in chord area 1-19 keys apply different fingerings to hear different chord accompaniments. Press “START/STOP” button to exit this function.



3. Chord Clear:

Under chord state, press “CHORD CLEAR” button to stop chord accompaniment while rhythm plays continuously.

