Operation Instruction

ARK-2191

Cautions

Pleasa observe the following notice, so as to avoid the possible hurt to yourself or others and the damage of the electronic organ and other external equipment.

⚠ Notice

Adapter:

Do not place the AC power cord near heating source such as central heating or heat radiator.Do not overbend the wire and place heavy object on it,wrap other objects with wire so as to avoid damage the wire.Please use the specilied power adapter , the electronic organ will be damaged if you use the wrong power adapter. Regular check the plug of adapter and remove the dust on the surface, do not plug with wet hands.

Don't open:

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

Occasion:

Do not place the electronic organ in an environment of dusty ,vibrating,low or high temperature(such as the place where the sunshine shines directly,the edge of the central heat or the car which is under the sunshine) so as to avoid damaging apperance and the internal parts.
Do not put the electronic organ in an unstable place to avoid falling.

Pretect:

To clean the body of the electronic organ, wipe it with dry soft cloth. Do not use paint, organic solvent or chemically impregnated cloth. Do not any vessel Containing liquid on the electronic organ to so as avoid liquid flowing in it and impairing internal part.

Connect:

To avoid damage the speaker ,before connecting electronic organ to any other electronic appliance, please adjust all volume to the lowest position, Then gradually adjusting the volume when the music were playing ,

Operation caution:

Do not perform the organ with the loudest or uncomfortable volume for a long time so as to avoid decline in hearing.The electronic organ can be used unless the adult open the package so as to avoid the damage of suffocating infant or children. Please store and discard the plastic package after it was disassembled. The small internal objects are not suitable for the use of the child who is under three years old .

⚠ Declare

The product technical specifications subject to change without notice. If there is some description of the product function is not detailed or ther is the printing error, please forgive us .
We keep the rights of obligation to revise and the final interpretation.
Please use it 2000 meters under sea level in tropical areas of Africa.

Technical Secpifications

Standard
• GB/8898-2011
• GB13837-2012、GB17625. 1-2012

Display
• LED display

Tone
• 100 kinds of tones

Rhythm
• 100 kinds of auto accompaniments

Demo
• 8 kinds of demo songs

Effect control
•Sustain, vibrato, transpose

Record and program
• Record, play function, program function

Drums
• 8 kinds of panel drums

Style control
Start/stop, sync, fill-in, speed control

Chord control
• Single chord, fingle chord, bass chord, chord clear

Intelligent guide
• Metronome, A/B teaching function

Other control
• Power switch, main volume control, accompany volume control

External function
• DC 12V power jack, headphone jack, left and right sound track jack

Diapason
• C2~C7

Accuracy in musical tuning
• ≤3 cent

Specifications
• 990x180x420mm

Weight
• 5.4Kg

Adapter
• AC220V, DC12V

DC input
• DC12V

Output power
• 6WX2

Quiescent current
• 75mA

Accessories
Adapter, music score stand , manual

Table of Contents

I. Panel Control and External Functions

Panel Control
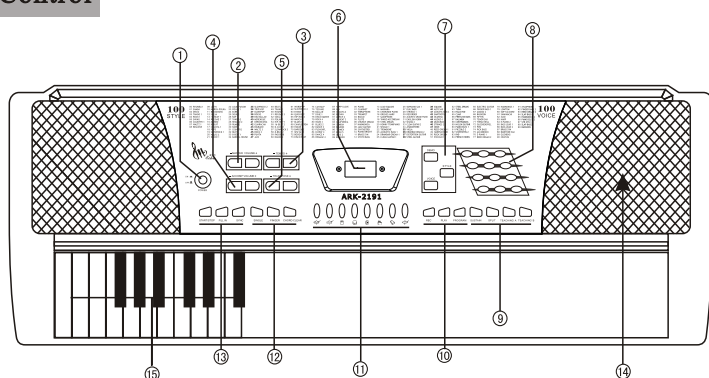
1. power switch
2. master volume
3. tempo
4. accomp volume
5. transpose
6. LED display
7. demo/style/voice
8. digit button
9. sustain/split/teaching A /teaching B
10. rec/play/program
11. panel percussion
12. single/fingle/chord clear
13. start/stop/fill in/sync
14. speaker
15. chord area

External Functions
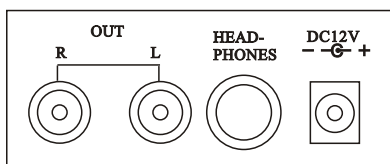
23. Left/Right sound track audio frequence
24. Headphone output
25. DC12V

II. Preparation before performance

POWER

1.Use AC-DC power adapter

Please use the special AC -DCpower adapter provided with this electronic organ or the power adapter with 12V DC output, 500mA output curr nt and with central anode. Connect the DC plug of power adapter into the DC 12V power socket in the rear of electronic organ,then connect the other end into ~220V 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.

Appendix III. Table of demo song

No.	Code of song	No.	Code of song
00	Turkey march	04	Red River Valley
01	Oh! SuSanna	05	KatyuSha
02	American patrol	06	Zmpromptu
03	Hawthorn	07	Toreador song

Appendix IV. Trouble shooting

Trouble	Possible reason/eliminating method
Accompanying a little noise in turning on/off power.	Normal condition. 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 breakoff built-in speaker system.
When using ACadapter,you hear distorted or discontinued sound, or even the electronic organ may be halted in terrible case.	You have used unqualified AC adapter or low batteries. Please use the AC adapter provi ded 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.
Too low volume, abnormal 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 auto bass is set on Single or Finger chord position. Now only pressing the keyboard of auto bass chord key area can accompaniment be started.
When using an external power supply, turn on the keyboard is silent, Led No LED display.	Positive / negative view battery is installed correctly, whether the battery is dead.
When using batteries, the electronic organ does not emit sound after startup and indicating LED 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 a mobile phone, the keyboard will be noise.	The mobile phones can be disruptive. In order to avoid this noise, the mobile telephone can be t urned off or to distant to use.

Appendix II.Table of Style

| No.	Name of style	No.	Name of style	No.	Name of style	No.	Name of style
00	Rumba 1	25	Soul 1	50	House 1	75	Techno
01	Samba	26	Rap	51	Reggae 3	76	Ballad
02	Disco	27	Tango 2	52	Soul 2	77	Dixie 1
03	Tango 1	28	Reggae 2	53	Polka 2	78	Disco Queen
04	Rock 1	29	Rumba 2	54	Hip-hop 1	79	Rock 4
05	Swing	30	Rave	55	16-Beat 2	80	House 3
06	Country 1	31	Country 2	56	N. 0. R&R	81	Blues 2
07	Waltz 1	32	Beat 1	57	Slowrock 3	82	Dance 3
08	Beguine	33	8-beat 1	58	8-Beat 2	83	Fusnshfl
09	Latin	34	Barrel House	59	Pasodob	84	8-Beat 4
10	March-polka	35	Slowrock 2	60	Dance 2	85	Dance 4
11	Bossanova	36	Trip Hop	61	Wordpop	86	Reggae 4
12	Salsa	37	Oldiepop	62	Slowrock 4	87	Happy Love
13	16-Beat 1	38	Rock 2	63	8-Beat 3	88	SKA
14	Reggae 1	39	Big Ballad	64	Quickstp	89	Chacha 2
15	Mambo	40	Merengue	65	Hip-hop 2	90	Brown
16	8-beat	41	Keroncong	66	March 1	91	March 2
17	ChaCha 1	42	Guaracha	67	Blues 1	92	16-Beat 3
18	Pops	43	Bigband	68	Charleston	93	California
19	Slowrock 1	44	Waltz 3	69	House 2	94	Cumbia
20	Waltz 2	45	Rock 3	70	Baroque	95	Bolero
21	Dance1	46	Punta	71	New Sai Di	96	Texmex
22	Loud Fusion	47	Jazz	72	Boogie	97	Rock 5
23	Polka 1	48	Beat 2	73	Disco Beat	98	Dixie 2
24	Eurb	49	Trance	74	Cantalp	99	Bolero

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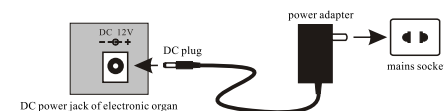
Caution: When you do not use this electronic organ for a long term, you should pull out the plug of power adapter from main socket safely to avoid possible causing trouble of part or other accident in long-term charging.

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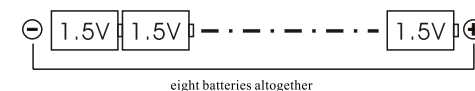
Caution: Do not use batteries of different kinds and mix new and old batteries. Low batteries will cause low volume or poor timbre and replace batteries at that time. To avoid possible damage caused by battery liquid leakage, please take out batteriesif you will not use the electronic organ for a long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

3. 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.

4. Connection of 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 OUT L/R jacks in rear panel of electronic organ and connect the other end into LINE IN or AUX IN jack of other hi-fi equipment.
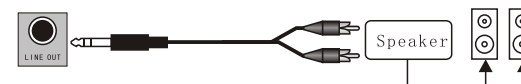
Notice: all connection above we do not provide with keyboards, you should buy yourself, pls forgive us!

III. Basic Operation

Basic Operation

1.Turn on power

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.Adjustment of Volume

This electronic organ is provided with 11-level volume from 01 to 16 for your choice. The default volume is ▮▮ . Press **VOLUME** + or **-** button to increase or decrease the volume correspondingly and LED nixietube will give corresponding display. Press **VOLUME** + and **-** buttons simultaneously to restore its default volume value. Meanwhile the accompanying volume will be changed correspondingly.

3. Select Voice

The default state is **VOICE**. To select a voice between 0 and 9 , input two digits with numeric keyboard; when you press corresponding digit keys, LED nixietube will display corresponding voice code. In voice state, press + or - button to select next or previous voice.
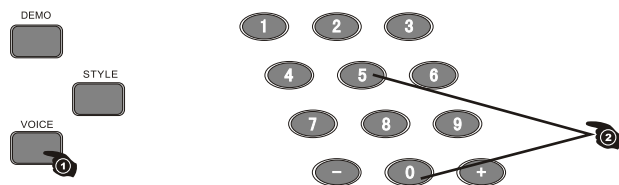
Effect and control

1. Keyboard split

Press **SPLIT** button to divide the electronic organ into left and right keyboards, LED nixietube will display ▮▮▮ . Now the left 24 buttons are split from the original keyboard and constitute double keyboards. The right keyboard can select another voice to perform two different voice with one keyboard. Press **SPLIT** button once again to exit the function and LED nixietube will display ▮▮▮ .

2. Sustain

Press **SUSTAIN** key to start sustain function, function LED will light up and ▮▮▮ will be displayed on LED display. Now the note of key produces a sustain effect. Press **SUSTAIN** key once again to exit sustain function. ▮▮▮ will be displayed on LED display and key pronunciation will restore to its original tone.
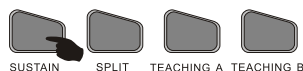
Appendix I. Table of Voice

No.	Name of voice	No.	Name of voice	No.	Name of vioce	No.	Name of voice
00	Piano	25	Clean Guitar 1	50	Rock Organ	75	Accordion
01	Clarinet	26	Soprano Sax1	51	Piccolo 1	76	E-Piano 1
02	Vibraphone	27	Dulcimer	52	Steel Drums	77	Reed Organ 2
03	Trumpet	28	Strings1	53	Tuba	78	Harmonics 1
04	Ban Jo	29	Recorder	54	Halo Pad	79	Low Tom
05	Flute	30	Acoustic Grand Piano	55	Clavi	80	Soft Accord
06	Church Organ	31	English Horn	56	Fretless Bass	81	Shakhachi
07	Harmonica	32	Shanai 2	57	Kalimba	82	Xiao
08	Jazz Guitar	33	Clean Guitar 2	58	Contrabass	83	Harp
09	Synthstrs 1	34	Atmosphere	59	Nylon Guitar	84	E-Piano 2
10	Piano Bright	35	Viola	60	Piano Elec 1	85	Bass Lead 1
11	Brass Syn	36	Drawbar Organ2	61	Piccolo 2	86	Bass Lead 2
12	Synth Bass	37	Distortion Guitar	62	Synthstrs 2	87	Brass Syn
13	Lead Square	38	Steel Guitar	63	Pad	88	Baritone Sax
14	Marimba	39	Square	64	French Horn	89	Guzheng
15	Chorused Piano	40	Alto Sax	65	Electric Guitar	90	Celesta
16	Orchestral Harp	41	Acoustic Bass 2	66	Finger Bass 1	91	Xylophone
17	Saxophone	42	Sawtooth	67	Agogo 2	92	Finger Bass 2
18	Tango Accordian	43	Ocarina	68	Bassoon	93	Reed Organ 3
19	Steel Drums	44	Agogo 1	69	Fifths	94	Slap Bass 1
20	Honky-tonk Piano	45	Musicbox	70	Tenor Sax	95	Harmonics 2
21	Shanai 1	46	Strings 2	71	Tinkle Bell	96	Piano Elec 2
22	Trombone	47	Oboe	72	Glockenspiel	97	Str Syn 3
23	Acoustic Bass1	48	Reed Organ 1	73	Pipa	98	Slap Bass 2
24	Drawbar Organ1	49	Harpsichord	74	Pick Bass	99	Bassoon

III. Basic Operation

1.Demo Song

This electronic organ is provided with eight demo songs. For detailed information, please refer to Appendix II

Press **DEMO** button to play current demo song and press it once again to play next demo song. During play, you can change the setting value of tempo in the range of 40~240. Some songs may change tempo during play to present a special music effect.
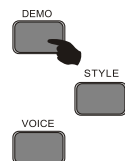
DEMO
STYLE
VOICE

Teaching function

Press **teach A** or **teach B** key to enter teaching function. During guide, unless a key be pressed, the song will not be continued , After a song is finished, repeat it again. You can select a demo song by Demo key, In Guide mode, Press **Teach A** or **Teach B** key to exit teach function.

Teach A：No matter whether you perform correctly or not, the organ will emit correct notes, namely the type of one key one note.

TEACHING A TEACHING B

Teach B：the theme notes will be screened by the notes played and if you do not play for 3 seconds, the theme notes will be restored for teach purpose.

TEACHING A TEACHING B

III. Basic Operation

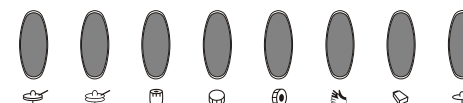## 3.Transpose

Press **TRANSPOSE** + or - button to upgrade or lower one level of keyboard tone in ± 6levels.Press **TRANSPOSE** + and - buttons simultaneously will restore to the default value of system.Transpose function is void in record mode/demo song mode.

− TRANSPOSE +
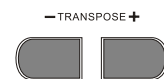
4.Play Drums

The relative percussion will occur if you pressed the drum button(8 panel drums together)

Number	Name of drums	Number	Name of drums
00	Hi-Hat Closed	04	Bass Drum
01	Hi-Hat Open	05	Hand Clap
02	Loe Tom	06	Hi-Hat Pedal
03	Snare	07	Slap Crash Cymbal

Rhythm and Rhythm function

1. Style

The default state is **VOICE**. To select a voice between 00 and 99, input two digits with numeric keyboard; when you press corresponding digit keys, LED nixietube will display corresponding voice code. In voice state, press + or - button to select next or previous voice.

DEMO
STYLE
VOICE
1 2 3
4 5 6
7 8 9
− 0 +
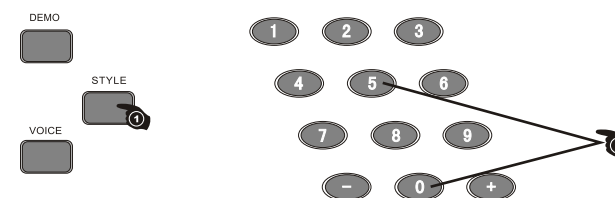
2. Start/stop

Push this button to play the rhythm. and push again, when you want to finish.

START/STOP FILL IN SYNC

III. Basic Operation

3.Sync

Press **SYNC** button to start sync accompaniment function and press any key to start rhythm simultaneously; if chord function has been started, press any of the 19 keys in chord area to start auto chord simultaneously; if a rhythm is being played, press **SYNC** button to stop rhythm and start sync accompaniment function; if sync accompaniment function has been started, press **SYNC** button to exit SYNC function.

START/STOP   FILL IN   SYNC

4.Fill in

In rhythm play mode, press **FILL-IN** button to play a group of Fill-In and then continue to replay the rhythm.

START/STOP   FILL IN   SYNC

5.Accompany Vol

The default rhythm volume of system is ⬛. Press **ACCOMP VOLUME** + or - button to increase or decrease the accompanying volume and LED nixietube will display corresponding value. The accompanying volume can be adjusted in the range of 01 to 16. Press **ACCOMP VOLUME** + and- buttons simultaneously to restore to the default value of system.

– ACCOMP VOLUME +

6.Tempo

The default tempo of system is ⬛. Press **TEMPO** + or - button to increase or decrease the tempo. You can adjust the playing tempo of rhythm, metronome and demo song in 32 levels and LED nixietube will display corresponding value. 40-240 adjustable.

– TEMPO +
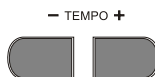
Chord

1. Chord clear

Press **CHORD CLEAR** button after chord is started, chord accompaniment will be stopped, while rhythm will be continued and LED nixietube will display ⬛.

SINGLE   FINGER   CHORD CLEAR

III. Basic Operation

2. Single chord

Press **SINGLE** button in the state of rhythm play to enter the mode of single chord accompaniment, LED nixietube will display ⬛. Press different single fingering in chord area (1-19 button), you will hear corresponding chord accompaniment. In normal mode, press **SINGLE CHORD** button to enter corresponding chord function. Press the button once again to exit the function and LED nixietube will display ⬛.

SINGLE   FINGER   CHORD CLEAR   C   Cm   C7   Cm7

3. Fingle chord

Press **FINGER** button in the state of rhythm play to enter the mode of finger chord accompaniment, LED nixietube will display ⬛. Press different finger fingering in chord area (1-19 button), you will hear corresponding chord accompaniment. In normal mode, press **FINGERCHORD** button to enter corresponding chord function. Press the button once again to exit the function and LED nixietube will display ⬛.

SINGLE   FINGER   CHORD CLEAR   C   Cm   Cm7   C7

Record

Press **REC** button to enter record state, LED nixietube will display ⬛. Now you can record the notes performed in the electronic organ. When the number of recorded note reaches the maximum value, LED nixietube will display ⬛ and record will be ended.

REC   PLAY   PROGRAM
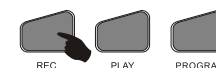
Program

Press **PROGRAM** button to enter the function of rhythm program, LED nixietube will display ⬛. You can program drums in the electronic organ with keyboard drums. When the number of recorded drums reaches the maximum value, LED nixietube will display ⬛ and program mode will be ended automatically. Now press **PLAY** button to play programmed drums in turn and constitute a self-programmed rhythm. You can adjust **TEMPO** +/- buttons for the optimum effect of rhythm play. During the play of programmed rhythm, press **PLAY** or **START/STOP** button to stop play. Press the key once again to exit program function and LED nixietube will display ⬛.

REC   PLAY   PROGRAM

2. Press **Play** button to play the music you've record.

REC   PLAY   PROGRAM