ARK-518
Operating Instructions
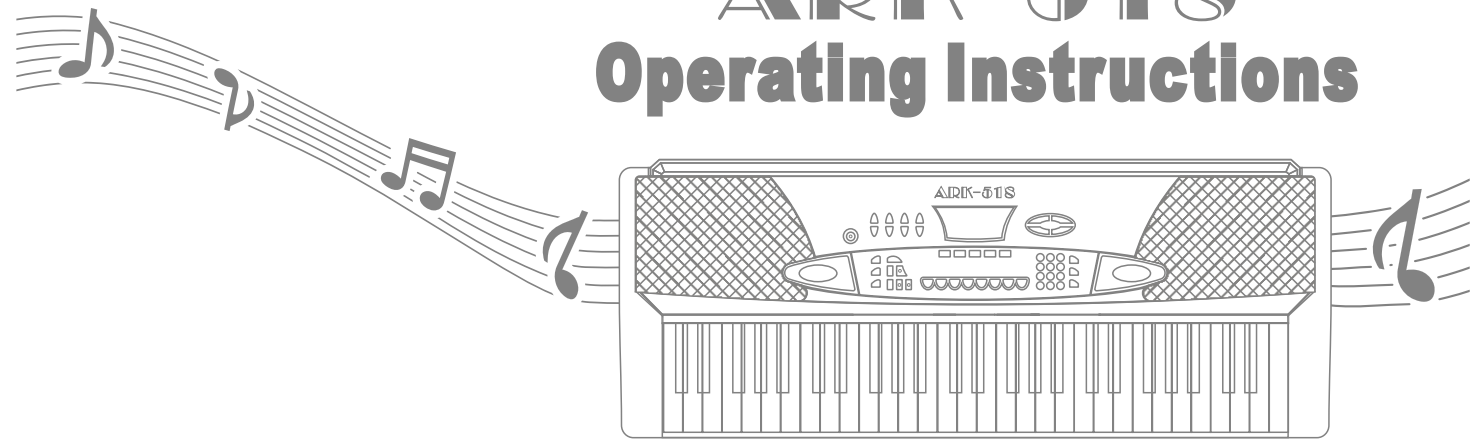
★54-key standard piano, LED digital display, auto hibernation

★100 voices, 100 rhythms, 10stereo demo songs, 8 panel drums

★Single chord, finger chord, low chord, chord clear

★Fill-in, Sync, Start/Stop

★Sustain, vibrato, transpose, metronome

★ B/W key record, rhythm programming, two guides

★21-level tempo control, 16-level volume control, 16-level RhyVol control, 16-level chord volume control

Standard：GB/T13837-2012；GB17625. 1-2012；GB8898-2011	DC voltage：DC 9 V
Voice：100	Output power：≤2. 7W
Rhythm：100	Static current：82mA
Diapason：C2-F6	Weight：3. 5Kg
Accuracy：≤3cent	Dimensions：850×330×120mm
Accessories: AC adapter, music stand, Operation Instructions	

Caution

Please observe the following items in using this electronic organ to avoid hurting operator or anybody else and damaging to this organ or other peripheral device. Please pay attention to, but not limited to, the following cautions.

1. Do not open the case of electronic organ or try to disassemble any part. Do not change internal component. If any abnormal situation occurs, please stop using it immediately and send it to qualified person for examination and repair.

2.Please   use specified voltage AC230V 50Hz, otherwise wrong voltage would damage this electronic organ or make it overheated or slow variation of sound.

3.Fore Before connecting this electronic organ with other electric appliance, please turn off all power supply and adjust the volume of peripheral device to the minimum limit.

4.Do not place AC adaptor or power cord near hot source such as central heating or radiator. Do not overbend wire. Do not place heavy matters on wire or tie other matters with wire.

5.DO not use blanket socket for the electronic organ to avoid overheat. When you do not use it for a long time or during a thunderstorm, please turn off the power supply and pull off AC adapter or socket plug. Please hold the plug instead of wire to pull out the power plug.

6.DO not place the electronic organ in a dusty, vibrating, low or high temperature environment such as a place exposed to direct sun light, the side of central heating or a car under direc t sun light, so as to avoid damaging the outlook or internal component of the electronic organ.

7. DO not place the electronic organ at unstable place to avoid falling and damaging. Do not sit on the electronic organ or place heavy matters on it.

8.Protect the electronic organ from rain or dampness. Do not put any vessel with liquid on the electronic organ toavoid the liquid flowing in the electronic organ and impair internal components.

9.Do fore cleaning the electronic organ, please pull out the power plug with dry hand. Regularly check the plug and clean surface dirt.

10. For cleaning the body of electronic organ without causing color fading of panel or keys, use dry soft cloth to wipe it gently. Do not use any cloth dosed in paint, organic solvent or chemicals. Do not place vinyl products on organ body.

11.DO not perform the electronic organ with maximum or uncomfortable volume to protect audition from hurting. Unpacking shall be done by adult. Please store the plastics packing properly or dispose them away out of infant or child to avoid danger. Since it contains small part, this electronic organ is not suitable for children.

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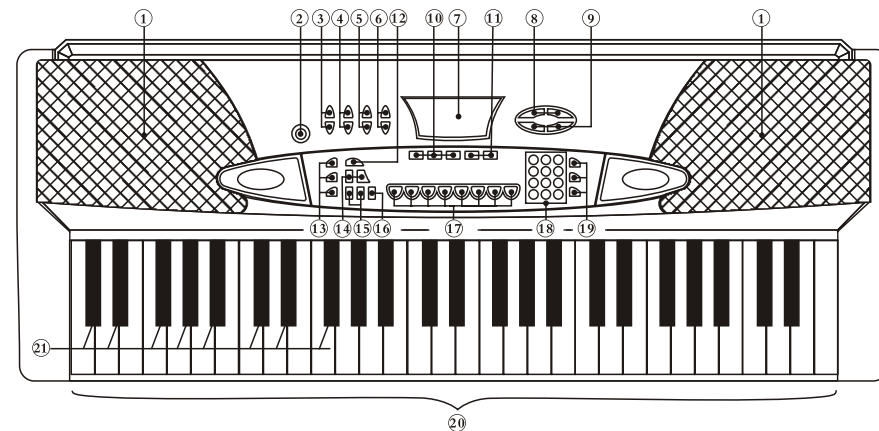# Appendix V: Trouble Shooting

Appendix V. Trouble Shooting	Cause and Solution
When the electronic organ has not been operated, both LED nixietube and function LED suddenly go out simultaneously.	This is normal condition. If you do not operate the electronic organ for 3 minutes, the system will automatically enter hibernation state. Press any key to wake up.
When using external power supply, the electronic organ does not emit any sound and indicating lamp does not light up.	Check whether power socket is energized, power plug is well or poor contact for power jack or low voltage.
When using batteries, the electronic organ does not emit any sound and indicating lamp does not light up.	Check whether battery polarity is correct or in low contents.
When using AC adapter, you hear distorted or discontinued-sound,or even the electronic organ may behalted in terrible case.	You have used unqualified AC adapter or low batteries. Please usethe AC adapter provided with this electronic organ or replace batteries.
No sound for external loudspeaker or amplifier.	Check whether volume is set too low or wire connection is proper.
No sound for external microphone.	Check whether volume is set too low, wire connection is proper, or use electret condenser microphone.

Note:Should the trouble of your electronic organ be unable to eliminate, pleas send it to franchiser or its Maintenance service to repair.Do not disassembly without authorization.

Appendix V. Trouble Shooting	Cause and Solution
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 equi pment to break off built-in speaker system.
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.
Though Sync/Start is begun and keyboard is used in performance, 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 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.

1. Speaker
2. Power switch
3. Volume+/−
4. Rhy Vol+/−
5. Chord Vol+/−
6. Tempo+/−
7. LED digital display

8. Guide1, 2 button
9. Transpose+/−
10. Record, Play, Program button
11. metronome
12. START/STOP button
13. Single chord, finger chord, chord clear
14. Sustain, Vibrato

15. Fill−In, Sync
16. instrument chord
17. Panel drums
18. numeric Keyboard
19. Voice, Rhythm, Demo song
20. 54−Key standard keyboard
21. 19B/W Keys in auto chord are

1.Installation of Batteries :

Open the battery lid in the bottom of this electronic organ and mount six 1.5V Size D batteries, ensuring the polarityshould 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. Lowbatteries will cause lowvolume 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.

battery lid
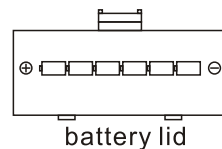
2. Use AC power adapter:

Please use the special AC power adapter provided with this electronic organ or the power adapter with DC 9 V voltage and >1A input current and with central anode. Connect the DC plug of power adapter into the DC 9 V power socket in the rear of electronic organ, then connect the other end into ~230V main socket (see that the input voltage of power adapter conform to the voltage of electric supply).

3. 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 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.

DC 9V

~230V/ DC 9V

microphone input   audio output   power adapter input
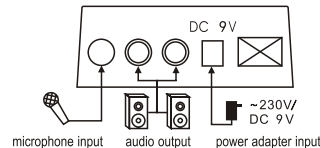
4. Use of electret condenser microphone

Insert electret condenser microphone for performance accompaniment.(Microphone input, amplifier, speaker,AC adapter input)

No.	Code of Song	No.	Code of Song
00	Radetzky March	05	Symphony Of Carmen
01	Carmen	06	Blue Danube
02	Fur Elise	07	Mozart PianoSonata
03	American Patrol	08	Hungarian Dance
04	Turkish March	09	Spring

APPendIX IV : Tabie of Panel Drum

No.	Name of Drum	No.	Name of Drum
00	Bass Drum	04	Low Tom
01	Side Stick	05	Open Hi-Ha
02	Snare Drum	06	Low-Mid Tom
03	Close Hi-Hat	07	Crash Cymbal

No.	Name of Rhythm	No.	Name of Rhythm	No.	Name of Rhythm	No.	Name of Rhythm
00	16beat_pop	25	LatinRock	50	Bossanova1	75	ClubDance
01	8bt_pop	26	Jazz Chacha	51	Fusion Chacha	76	Schlager Rock
02	8bt_soul	27	Begiune RUMBA	52	Slow_pop	77	Latin Mambo
03	Bossanova	28	LimboRock	53	Bluegrass	78	Rock March
04	Chacha	29	Argentina TANGO	54	DiscoFox	79	WALTZ1
05	Clup_pop	30	8BeatModern	55	PopWaltz	80	16beat_Fusion
06	Country	31	Latin Chacha	56	16beat_pop Disco	81	8bt_Rock pop
07	DISCO	32	Boogie Pop	57	8bt_pop swing	82	8bt_soul pop
08	HardRock	33	New Age Country	58	8bt_slow soul	83	Funk
09	Mambo	34	Funky Disco	59	Slow Rock	84	Techno Chacha
10	March	35	Electro Pop	60	Jazz Mambo	85	Clup_pop
11	Rap_pop	36	Jazz DISCO	61	Pasodoble	86	Country Jazz
12	RUMBA	37	Soft Rock	62	New Age TANGO	87	DISCO pop
13	slow_rock	38	Mambo2	63	SwingWaltz	88	New Rock2
14	Tango	39	New Age March	64	HipHop	89	Disco Mambo
15	WALTZ	40	Uk pop	65	Rap_Pop	90	March Band
16	BritPop	41	Classic 8Beat pop	66	8bt_Mod soul	91	Hi Hop_pop
17	Country2	42	Rock'NRoll	67	Techno	92	Classic RUMBA
18	8BeatAdria	43	Straight_Rock	68	Trance Chacha	93	R&B_rock
19	Old RUMBA	44	New Mambo	69	Big Band_pop	94	Blue TANGO
20	HardRock	45	Salsa	70	Country Rock	95	Blue WALTZ
21	Italiy TANGO	46	Jazz RUMBA	71	Country_pop	96	Swing Bossanova
22	Jazz WALTZ	47	Slow_rock2	72	Rock RUMBA	97	Disco March
23	LatinPop	48	Hullygully	73	Pop_rock	98	Jazz BritPop
24	8bt_Rock	49	PopNewAge	74	Fusion TANGO	99	Blue RUMBA

1. Adjusting Volume

The default system volume level is 10 and there are 16 volume levels for your choice. During adjusting, LED nixietube will display accordingly.

VOLUME

2. Adjusting Rhythm Volume

The default system volume level is 16 and there are 16 rhythm volume levels for your choice. During adjusting, LED nixietube will display accordingly.

RHY VOL

3. Adjusting Chord Volume

The default system volume level is 5 and there are 8 chord volume levels for your choice. During adjusting, LED nixietube will display accordingly.

CHORD VOL

4. Adjusting Tempo

You may adjust the tempo of rhythm, metronome and demo songs in a range of 21 levels by pressing TEMPO +/- button. During adjusting, LED nixietube will display accordingly.

TEMPO

5. Selecting Voice

This electronic organ has 100 voices for your choice. For detailed information, refer to Appendix I. The default status at startup is PIANO and LED nixietube displays 000.

If current status is not VOICE, you need to press VOICE key to select a VOICE throughout 9~0 or "+/-" buttons. By pressing digits, LED nixietube will display corresponding VOICE code.

VOICE

STYLE

SONG

6. Selecting Rhythm

This electronic organ has 100 rhythms for your choice. For detailed STYLE table, refer to Appendix II. After press STYLE key, you may select a STYLE throughout 9~0 or "+/-" buttons. By pressing digits, LED will display corresponding STYLE code. After selecting STYLE, press START/STOPkey to start STYLE and press STYLE once again to stop playing STYLE.

VOICE

STYLE

SONG

7. Selecting and Playing of Demo Songs

This electronic organ has 10 demo songs for your choice. For the table of demo songs, refer to Appendix III. Press DEMO SONG key to play current demo song. This key is a toggle key. Press DEMO SONG key once again to play next demo song. If you press START/STOP key during playing, the play will be stopped. Under the state of demo song playing, you cannot perform by pressing keys and panel drums.

VOICE

STYLE

SONG

8. Panel Drums

This electronic organ has altogether 8 panel drums indicated by the symbol beneath corresponding key or you may refer to Appendix IV. By pressing PANEL DRUM button, you can hear a corresponding voice of drum. According to needs, performers can insert relevant panel drums to improve performance effect.

No.	Name of Voice	No.	Name of Voice	No.	Name of Voice	No.	Name of Voice
00	Acoustic Grand Piano	25	Hard Guitar	50	Baritone	75	Bamboo Flute
01	RhodesPiano	26	Bright String 1	51	Classic Harp	76	Bright Clarinet
02	Chorused Piano	27	Susa	52	Synth String-1	77	Classic Trumpet
03	Vibraphone	28	Feedback Gt.	53	Shamisen	78	Trombone
04	Percussive Organ	29	Grow Sax	54	Classic Piano	79	Koto
05	Acoustic Giutar (Steel)	30	Rock Harp	55	Fusion E-Piano	80	Piano 1
06	Distortion Guitar	31	Jazz Bass	56	Electric Guitar(Clean)	81	Classic E-Piano
07	Electoric Bass (Fingar)	32	Tron Flute	57	Jazz Clarinet	82	Jazz E- Piano
08	Orchestral Harp	33	Pi Pa	58	Dream Flute	83	Brightness
09	String Ensemble1	34	Soft-tone E-Piano	59	Bright Acoustic Piano	84	Classic Organ
10	Trumpet	35	YAMAHA E- Piano	60	Old tone E- Piano	85	New age Clarinet
11	Tuba	36	Acoustic Grand Piano	61	Cool String Ensemble	86	Warm flute
12	Alto Sax	37	Bright Celesta	62	Metallic	87	Electric Guitar(Clean)
13	Clarinet	38	Rock Organ	63	Honky-tonk E-Piano	88	Synth String-2
14	Flute	39	Cornet	64	Illusion Sax	89	Classic Trumpet
15	Banjo	40	Electric Guitar	65	Drawbar Organ	90	Klimba
16	Flugel Horn	41	Pick Bass (Fingar)	66	Jazz Guitar.	91	Electric Guitar(Jazz)
17	Electric Piano-1	42	String Ensemble 2	67	Fretless Bass	92	Bright Guitar.
18	Uillean Harp	43	Ophicleide	68	Classic Harp	93	Slap Bass-2
19	Electronic Piano-2	44	Soft Sax	69	Modern E- Piano	94	Swing Harp
20	UprightPiano	45	Sitar	70	Accordion	95	Bass Trombone
21	Hard Vibe	46	Boom Guitar	71	Jazz Guitar.	96	Fusion Sax
22	Jazz Organ	47	Jazz Trumpet	72	Glass	97	Synth String-3
23	12-str. Gt	48	Classic Clarinet	73	Slap Bass-1	98	Synth Organ
24	Multi Wind	49	Recorder	74	Warm Sax	99	DoubleBass Bass

21. Transpose

By readjusting TRANSPOSE "+" or "-" button, you may lift or lower semi-scale corresponding to the scale of B/W key in your performance and ±6 levels may be lifted or lowered. Press both "+" and "-"buttons simultaneously to restore the default system setting of "00".

23. Guide

Press GUIDE 1 or GUIDE 2 button to enter guide function. Then press white keys to selectsongsfor guide purpose.Press this button once again to exit guide. In guide mode, panel drums cannotbe used. After the song comes to the end, you may press white keys to select songs again.Guide 1: when you press any key for guide purpose, whether correct or not, a correct melody note will be given and repeated accompaniment will be also given,that is One-Key-One-Note mode.Guide 2: when you press keys,melody note will be overcurtained. If you do not press any keyin three seconds, melody note will be restored for your guide.

9. Single Chord

Press SINGLE key to enter auto chord function of single chord, relevant LED will light up.After rhythm and Sync functions are initiated, apply different SINGLE in chord key area (1~19 keys)to produce correspondent chord accompaniment. Press SINGLE key once again to exit this function and correspondent LED will be off.

SINGLE CHORD
FINGER CHORD
LOW CHORD

10. Finger Chord

Press FINGER key to enter auto chord function of finger chord, relevant LED will light up.After rhythm and Sync functions are initiated, apply different FINGER in chord key area (1~19 keys)to produce correspondent chord accompaniment. Press FINGER key once again to exit this function andcorrespondent LED will be off.

SINGLE CHORD
FINGER CHORD
LOW CHORD

11. Chord Clear

After chord is started, press CHORD CLEAR button to stop the sound of chord accompaniment without exitingchord function and meanwhile the rhythm is still playing. After CHORD CLEAR button is pressed, press keys in chord area to continue playing chord.

FILL-IN SYNC CHORD CLEAR
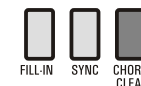
12. Instrument Chord

In the state of chord, press low CHORD button to change chord background timbre.This button s a toggle button containing four back chord ground timbres. Performer can select according to different needs.

SINGLE CHORD
FINGER CHORD
LOW CHORD

13. Sync Accompaniment

Press SYNC button to start the function of sync accompaniment. Then press any key to start rhythm Simultaneously. If chord has been started, press any of 19 keys in chord area to start auto chord simultaneously,or press any other key of keyboard to start rhythm simultaneously. If rhythm is being played, you may press SYNC button to stop rhythm and start sync accompaniment. If sync function has been started, press SYNC button to exit sync function.

FILL-IN   SYNC   CHORD
                    CLEAR
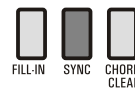
14. Fill-In

During rhythm playing, you may press FILL-IN key to insert a measure of drum fill in current rhythmtostrengthen performance effect, and then restore to original rhythm.

FILL-IN   SYNC   CHORD
   CLEAR
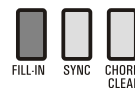
15. Start/Stop

By pressing START/STOP button, you can exit the function of rhythm, sync, record, programming, playing, metronome, demo song or guide; if all the above-mentioned functions have not been started, press START/STOP button to play rhythm.

START/STOP

16. Sustain

Press SUSTAIN key to start sustain function. Now the note of B/W key produces a sustain effect. Press SUSTAINkey once again to exit sustain function.

SUSTAIN   VIBRATO
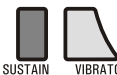
17. Vibrato

Press VIBRATO key to start vibrato function. Now performance with B/W keys produces vibrato effect.Press VIBRATO key once again to exit vibrato function.

SUSTAIN   VIBRATO
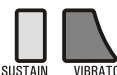
18. Record

Press RECORD key to enter record status. The most notes to record are 54 and after 54 notes are recorded,no more notes can be recorded. In Recode mode, panel drums can only product sound but not be recorded.After record, press PLAY button to replay recorded notes in sequence. during playing, tones may be switched.

RECORD   REC PLAY   RHY   PLAY   BEAT
                      EDIT
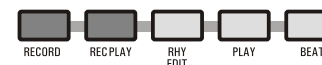
19.Rhythm Programming

Press "PROG" key to enter rhythm programming function. You can compile a section of rhythm using eightpanel drums and recording at most 16 drums. In rhythm programming mode, note key cannot be recorded.After programming, press PLAY key to play programmed drums in sequence and form a self-programmed rhythm. By adjusting TEMPO "+/-" key, you may reach the optimal performance effect.

RECORD   REC PLAY   RHY   PLAY   BEAT
                      EDIT
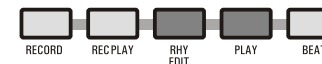
20. Metronome

After pressing METRONOME button, you can hear ticking, and beat effect will be added to your performance .Press this button once again to stop metronome. Operation: play 1/4, 2/4→stop→play3/4→stop→play 4/4→stop→ ……recycling. You may press TEMPO "+/-" button to speed up or lower down the rate according to your needs.

RECORD   REC PLAY   RHY   PLAY   BEAT
                      EDIT