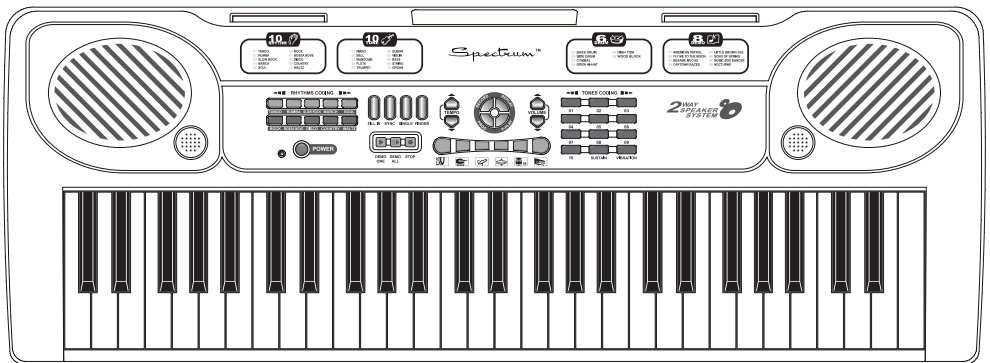


Spectrum™

AIL430 & AIL435

INSTRUCTION MANUAL

54-Key Electric Keyboard



Read and Save These Instructions

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Warnings

Warnings

- Handle with care. Do not drop or subject the keyboard to excessive force or shock.
- Do not expose the keyboard to water or moisture of any kind. Avoid contact with corrosive liquids.
- Do not expose the keyboard to high humidity or dusty environments.
- Do not expose the keyboard to extreme temperatures from any source.
- Do not use liquid or aerosol cleansers. Wipe with a dry cloth.
- Do not use attachments not recommended by the manufacturer.
- Do not use the keyboard near water, near a bathtub, wash bowl, kitchen sink or laundry tub; in a wet basement or near a swimming pool.
- Never push objects of any kind into the keyboard through its openings as they may touch dangerous voltage points or shortout parts and could result in fire or electric shock. Never spill liquid of any kind onto the keyboard.
- Do not attempt to service the keyboard yourself. Opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

Do not Incinerate this product

- Do not place this product in a fire, otherwise it may explode and result in fire or injury.

Water and Foreign bodies

- Water, other fluids and conductive objects (such as metal, etc.) that enter this product may cause fire or electric shock. If this occurs, immediately do the following:
 - 1 Turn off the power supply.
 - 2 Contact a qualified service technician for help.

Dismantling and Modification

- Do not dismantle or modify this product in any way. This may result in electric shock, burns or other injury. All adjustments or maintenance should be carried out by a qualified service technician.

Dropping or Impact Damage

- Continued use of this equipment after being dropped, or damaged by severe impact, may cause fire or electric shock. If this occurs, immediately do the following:
 - 1 Turn off the power supply
 - 2 Contact a qualified service technician for help.

Plastic Bag

Do not place the plastic bag (if any) from this product over a person's head or in their mouth, it can cause asphyxiation. Parents with small children should pay particular attention and properly dispose of the bag.

Location

Avoid placing the keyboard in any of the following places, otherwise fire or electric shock may occur.

- High temperature or dusty places.
- Kitchen or other places with oily smoke.
- Adjacent to an air conditioner, electric blanket, direct sunlight, in a vehicle in the sun, or any other location that may cause the keyboard to heat up.

Volume

Listening to excessively loud music for extended periods may damage hearing.

Heavy Objects

Do not place heavy objects on top of this product. This may cause the keyboard to become top-heavy and fall, or the object itself may fall, causing damage or injury.

Battery Precautions

- Do not mix old and new batteries.
- Do not mix alkaline, standard (carbon-zinc) or rechargeable (nickel cadmium) batteries.
- Do not recharge non-rechargeable batteries.
- Do not short circuit, disassemble, heat or put batteries into a fire. Batteries can explode and cause serious injury.
- Never let children play with batteries. Swallowing a battery could be harmful or fatal. If swallowed, consult a doctor immediately.
- When the keyboard is not in use, remove the batteries. This prevents damage or injury due to possible battery leakage.
- Always discard batteries in a safe, environmentally friendly manner.

Incorrect use of batteries may cause fluid leakage, corrosion to surrounding parts, explosion, or may result in fire or injury. To avoid these dangers, please follow the precautions below:

- Do not attempt to dismantle or short circuit batteries.
- Do not expose batteries to naked flame or set batteries on fire.
- Do not mix new and old batteries together.
- Do not mix together different types of battery.
- Do not try to recharge non-rechargeable batteries.
- Observe positive (+) and negative (-) polarities.
- Only use the batteries specified for this product.
- If the keyboard is not being used, remove the batteries.

Important !

If any the following situations occur when using batteries, replace the batteries immediately:

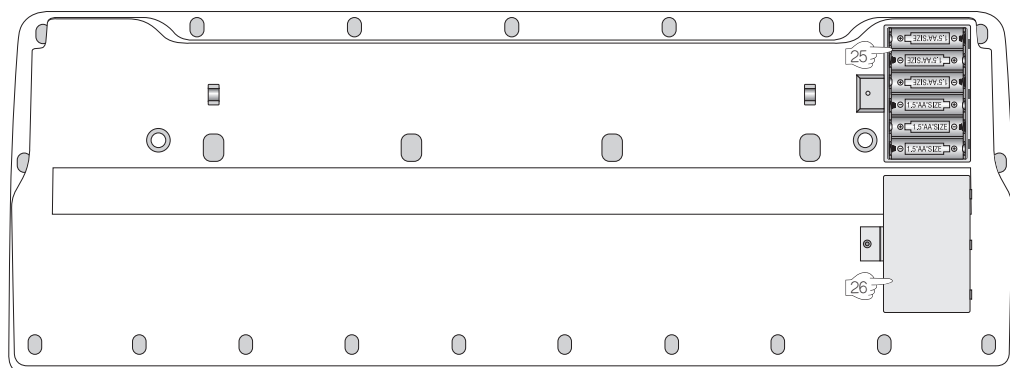
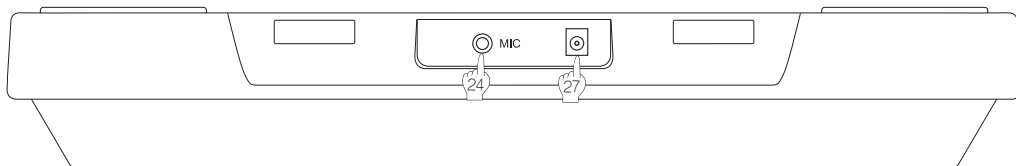
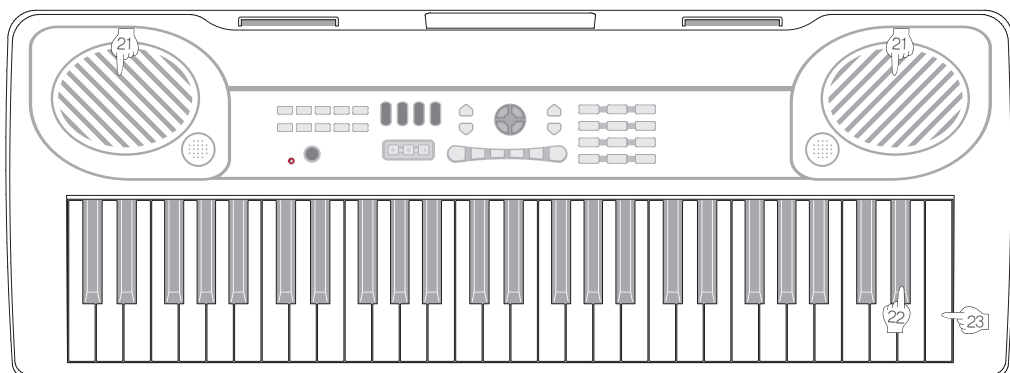
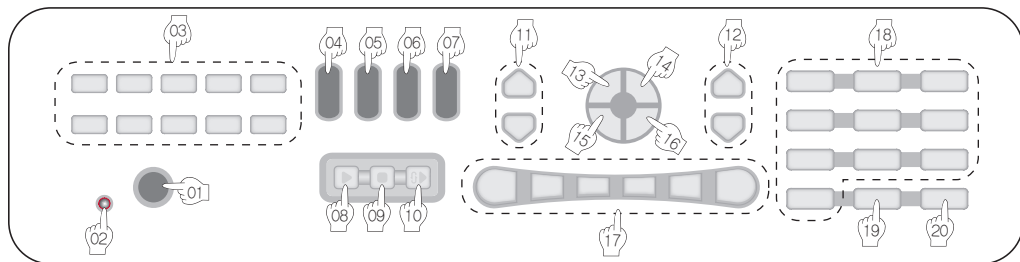
- There is no power when the keyboard is turned on.
- Loudspeaker volume decreases significantly.
- Sound output is distorted.
- Occasional interruptions occur when playing at a loud volume.
- Power cuts off when playing at a loud volume.
- Sound continues to play after releasing the keys.
- Tones produced are completely different.
- Rhythms and demonstration songs do not play normally.
- Microphone volume is abnormally low.
- Microphone output is distorted.
- Power cuts off suddenly when using the microphone.

AC Adaptor Instruction

Improper use of the AC adaptor may result in fire, accident, electrical shock, keyboard damage and personal injury. Strictly follow the instructions below:

- Be sure the AC power used for the keyboard is within the range of voltage required by the AC adaptor.
- Do not overload the power sockets or any extension cords used.
- Do not put any heavy objects on top of the power cord.
- Do not attempt to alter or over bend the power cord.
- Do not pull on the power cord especially from the wall socket.
- If the AC adaptor becomes damaged, replace it with another AC adaptor with same power specifications.
- Do not touch the AC adaptor with wet hands. This may cause electric shock.
- Do not use the AC adaptor near water. This may result in fire or electric shock.
- When removing the plug from the wall socket, grab the adaptor body, do not pull the cord.
- Remove the AC adaptor during storms or when leaving for a long time.
- Remove the AC adaptor from the wall socket at least once a year to clean any accumulated dirt around the connecting pins.

Parts Diagram

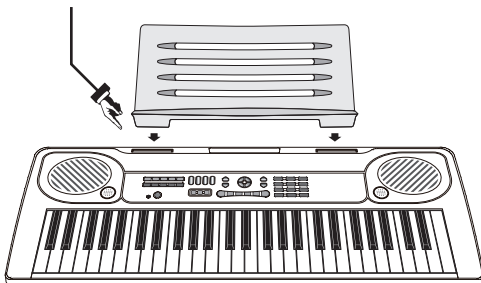


General Name

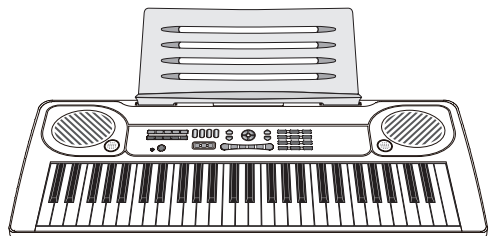
- | | |
|------------------------------|-----------------------------------|
| ① Power supply | ⑮ Program button |
| ② Power Indicator lamp | ⑯ Program play button |
| ③ 10 Kinds of Rhythm Button | ⑰ 6 Drum Sound Bank |
| ④ Single finger chord button | ⑱ 10 Tone-color Selection Buttons |
| ⑤ Fingered chord button | ⑲ Vibrato button |
| ⑥ Synchronization button | ⑳ Sustain button |
| ⑦ Fill-in button | ㉑ Speaker |
| ⑧ Demo one Button | ㉒ Black key |
| ⑨ Stop button | ㉓ White key |
| ⑩ Demo all Button | ㉔ Microphone input jack |
| ⑪ Volume button | ㉕ Battery Compartment |
| ⑫ Tempo button | ㉖ Battery cover |
| ⑬ Record button | ㉗ Adaptor Jack |
| ⑭ Replay Button | |

Installation of Music Book Holder

Insert the Music Book Holder following the direction as shown



Finished pattern



Parameter

- 54 Keys
- 10 Rhythms
- 10 Tones
- 8 Demonstration songs
- 6 Percussions
- 16 Levels of volume control
- 32 Steps of rhythm tempo control
- Record and replay of musical note/Rhythm editing function
- Built-in single finger and fingered accompaniment/ interlude and automatic accompaniment function
- Rhythm/ chord accompaniment synchronization function
- Vibrato function
- Runs on 6"AA" 1.5V batteries or power with included AC adaptor

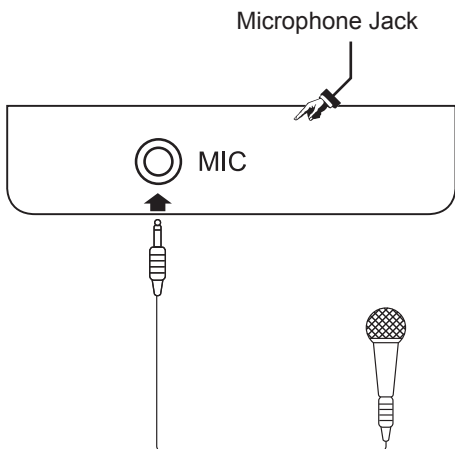
Specifications

Specification: 730mm × 260mm × 70mm	Rhythm: 10
Weight: 2 KG	Chord: Single finger chord, fingered
Keys: 54Key	Adaptor: DC 4.5V 200mA
Range: C7 ~ G2	Output power: $\geq 3W \times 2$
Tone: 10	Battery: 6 "AA" batteries
Music: 8 Demonstration songs	

Connection

Microphone Jack

Insert the microphone plug into MIC jack and you can sing along with the built-in music and play while you sing.



Feedback

The following cases may lead to feedback

- Cover the head of the microphone by hand.
- Put the microphone near the loud speaker. When it utters feedback, please remove your hand from the microphone head and take it far away from any loud speakers.

IMPORTANT! ---

- If not used, the keyboard should be switched off.

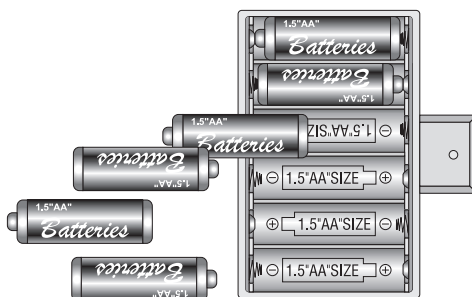
POWER

Using Batteries

Before installing the batteries, make sure to turn off the power of the electronic organ.

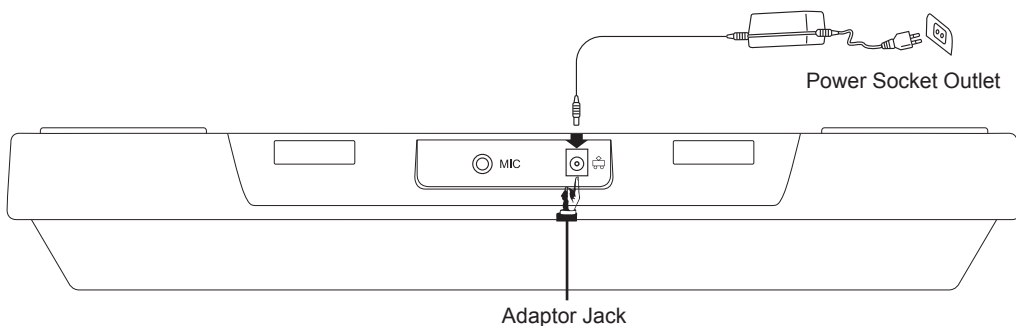
Battery Installation

- 1 To open the battery compartment, gently turn over the keyboard and open the compartment door, located on the bottom of unit, if there is a screw, use a screwdriver (not included).
- 2 Insert 6 x 1.5V batteries (purchase separately), observing proper +/- polarities as indicated.
- 3 Close the battery compartment.



Using AC adaptor

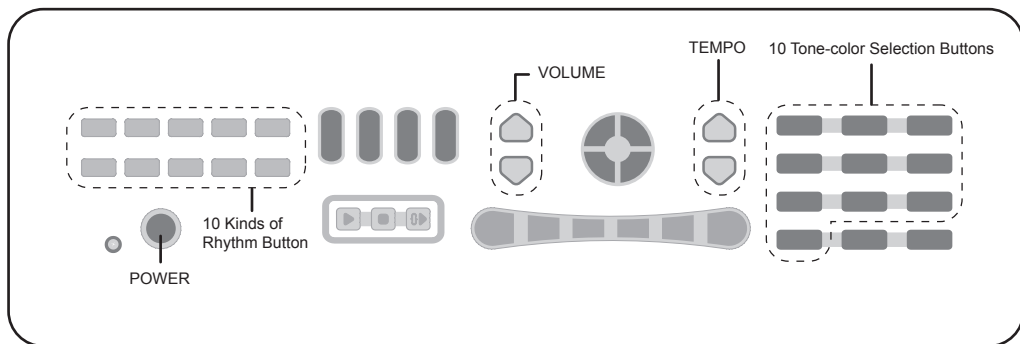
The keyboard comes with an AC adaptor. Connect the AC Adaptor to the wall power socket outlet and the adaptor jack at the keyboard rear panel.



Note:

- Be sure the keyboard is switched off when connecting and disconnecting the AC adaptor.

Basic Operation and Accompaniment



Performance of Electronic Keyboard

This section will introduce the playing instruction.

How to play the Electronic Keyboard

- 1 Switch on the POWER and the red indicator illuminates.
- 2 Press VOLUME button to adjust the volume. Press Volume ▲ button to raise the volume. Press volume ▼ button to lower the volume.
- 3 Play the keyboard

The Selection of Tones

The Electronic Keyboard consists of 10 tones. Select the desired tone according to the following steps.

How to select the Tones

- 1 Find out the tone required from the tone list and remember the number.
- 2 Press the tone button in the panel to play the corresponding tone.
- 3 The initial tone is set as Piano.

Rhythm Selection

The Electronic Keyboard consists of 10 built-in rhythms. Press the desired rhythm button directly for playing the rhythm.

Tempo Control

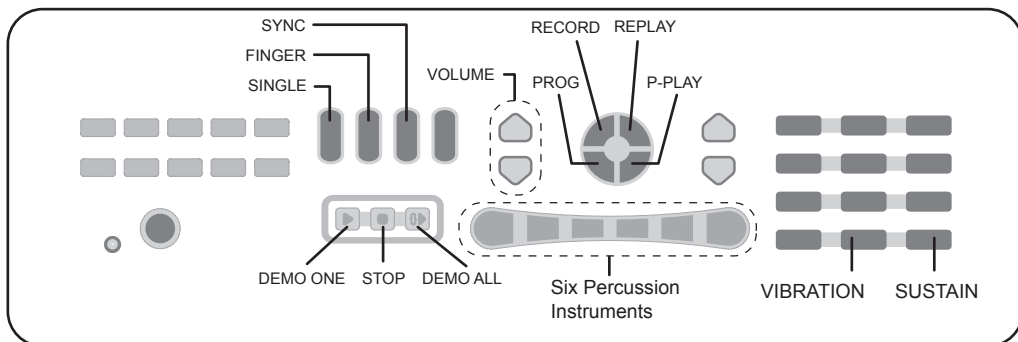
There are 32 steps for the Tempo control. The Tempo control is applied to rhythm, rhythm program, playing demonstration songs and chord playing.

How to control the Tempo

Press Tempo ▲ button to increase tempo. Press Tempo ▼ to decrease tempo.

The Usage of Chord Accompaniment

The Electronic Keyboard consists of Single Finger Chord accompaniment and Fingered Chord accompaniment system. The following introduction will let you know how to use this function. Before playing the chord, you have to choose the desired rhythm.



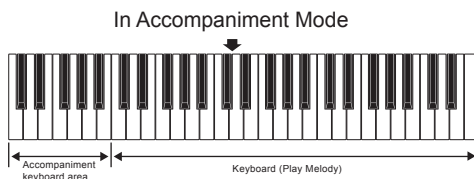
How to use Single Finger Chord Accompaniment

- 1 Press RHYTHM button and play the selected rhythm.
- 2 Press SINGLE button to enter the chord mode.
- 3 In the accompaniment keyboard area (Key 1 to 11 from the left), play different chords with pressing different keys in the area.

- 4 The Single Finger function can be used with SYNC (Synchronization) function. Press the SYNC button and SINGLE button. Press the keys in the accompaniment keyboard area will start the chord and rhythm simultaneously.

- In accompaniment mode, the accompaniment keyboard area can only be used to play chords. You cannot play a melody on this part of keyboard.

- In accompaniment mode, the accompaniment keyboard area can only be used to play chords. You cannot play a melody on this part of keyboard.



How to use Multifinger Chord Accompaniment

- 1 Press RHYTHM button and play the selected rhythm.
- 2 Press Finger button to enter the chord mode.
- 3 In the accompaniment keyboard area (Key 1 to 11 from the left), play different chords with pressing different keys in the area.

Playing a Demo

This keyboard has 8 demonstration songs that can be played for your enjoyment.

- 1 Find the song required on the demo song patch table.
- 2 Press Demo One button to play the music. Press the button again for the next song. Repeat it until you find the desired song.
- 3 Press Volume ▲ button to raise the volume. Press Volume ▼ button to lower the volume.
- 4 Press STOP button to stop playing.

- When the keyboard is firstly switched on, the demo song is preset to song 01.

How to Play all demo songs in order

- 1 Press Demo All button to play the music. The songs will play from 01 in sequential order.
- 2 To end song playback, press STOP button.

How to change the Tone of Demo Songs.

When playing the demo songs, find out the desired tone and press the corresponding button to change the tone of demo songs.

Record/Play

- 1 To record your own melody, press the RECORD button.
- 2 Record up to 54 notes melody on the keyboard.
- 3 To play the melody, press the REPLAY button. The melody plays once.
 - Every time you press the RECORD button, the recorded melody will be erased.

Vibrato Effect

- 1 Press VIBRATION button to incorporate a vibrato effect on the keyboard.
- 2 Press VIBRATION button again to cancel the function.

Sustain Effect

- 1 Press SUSTAIN button, the notes played will fade slowly.
- 2 Press SUSTAIN button again to cancel the function.

The usage of Program function

- 1 Press PROG button to enter rhythm program mode.
- 2 Program your own rhythm by pressing the 6 percussion buttons.
- 3 Program up to 16 percussion notes. Press P-PLAY to play back the programmed rhythm.
 - In Program mode, only percussion sound is recorded.
 - When playing back the programmed rhythm, you can increase the Tempo or decrease the Tempo.

The use of Percussion

Press directly on the 6 percussion buttons.

The use of Fill-in function

Fill-in patterns allow you to momentarily change the rhythm and add variation.

To add a drum fill to a rhythm, press the FILL-IN button. A short drum fill is inserted into the pattern that is playing.

Appendix







List of Tones-color

01	PIANO
02	BELL
03	MANDOLIN
04	FLUTE
05	TRUMPET
06	GUITAR
07	VIOLIN
08	BASS
09	STRING
10	ORGAN

List of Rhythms

01	TANGO
02	RUMBA
03	SLOW ROCK
04	MARCH
05	SOUL
06	ROCK
07	BOSSA NOVE
08	DISCO
09	COUNTRY
10	WALTZ

6 panel drum sets

000	BASS DRUM	
001	SNARE DRUM	
002	CYMBAL	
003	OPEN HI-HAT	
004	HIGH TOM	
005	WOOD BLOCK	

List of Demonstration Songs

01	American Patrol
02	Fly me to the moon
03	Besame Mucho
04	Camptown Races
05	Little Brown Jug
06	Song Of Spring
07	Music Box Dancer
08	Nocturne

Spectrum Musical Instruments

Electric Keyboard Pack

INCLUDES THE FOLLOWING ITEMS:

- ELECTRIC KEYBOARD
- Owners Manual
- Warranty Registration Card
- AC Power adaptor
- Music Book Holder

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