RJ461 61 Key Full Size Musical Keyboard

User Guide

Important Information

Be sure to obey the following information so as not to harm yourself or others or damage this instrument or other external equipment.

Power adapter:

- Please use only the specified AC adapter supplied with the product. An incorrect or faulty adapter can cause damage to the electronic keyboard.
- Do not place the AC adapter or power cord near to any source of heat such as radiators or other heaters.
- To avoid damaging the power cord, please ensure that heavy objects are not placed on it and that it is not subject to stress or over bending.
- Check the power plug regularly and ensure it is free from surface dirt. Do not insert or unplug the power cord with wet hands.

Do not open the body of the electronic keyboard:

- Do not open the electronic keyboard or try to disassemble any part of it. If the device is not functioning correctly, please stop using it and send it to a qualified service agent for repair.

Use of the electronic keyboard:

- To avoid damaging the appearance of the electronic keyboard or damaging the internal parts please do not place the electronic keyboard in a dusty environment, in direct sunlight or in places where there are very high or very low temperatures.
- Do not place the electronic keyboard on an uneven surface. To avoid damaging internal parts do not place any vessel holding liquid onto the electronic keyboard as spillage may occur.

Maintenance:

- To clean the body of the electronic keyboard wipe it with a dry, soft cloth only.

Connection:

- To prevent damage to the speaker of the electronic keyboard please adjust the volume of any peripheral device to the lowest setting and gradually adjust the volume accordingly to an appropriate level once the music is playing.

During operation:

- Do not use the keyboard at the loudest volume level for a long period.
- Do not place heavy objects onto the keyboard or press the keyboard with undue force.
- The packaging should be opened by a responsible adult only and any plastic packaging should be stored or disposed of appropriately.

Specification

- Specifications are subject to change without notice.

Contents

Important Information 2

Controls, Indicators and External Connections 5

- Front Panel 5
- External Connections 6
- LCD Display 6

Preparation Before First Use 7

- Power 7
  - Use of AC/DC power adapter: 7
  - Battery operation: 7
- Jacks and Accessories 7
  - Using headphones: 7
  - Connecting an Amplifier or Hi-Fi Equipment: 8
  - Connecting a phone or audio device to the AUX Input to play music through the keyboard: 8
  - Connecting a Microphone: 9
  - Connecting a USB Flash-drive or MicroSD card: 9

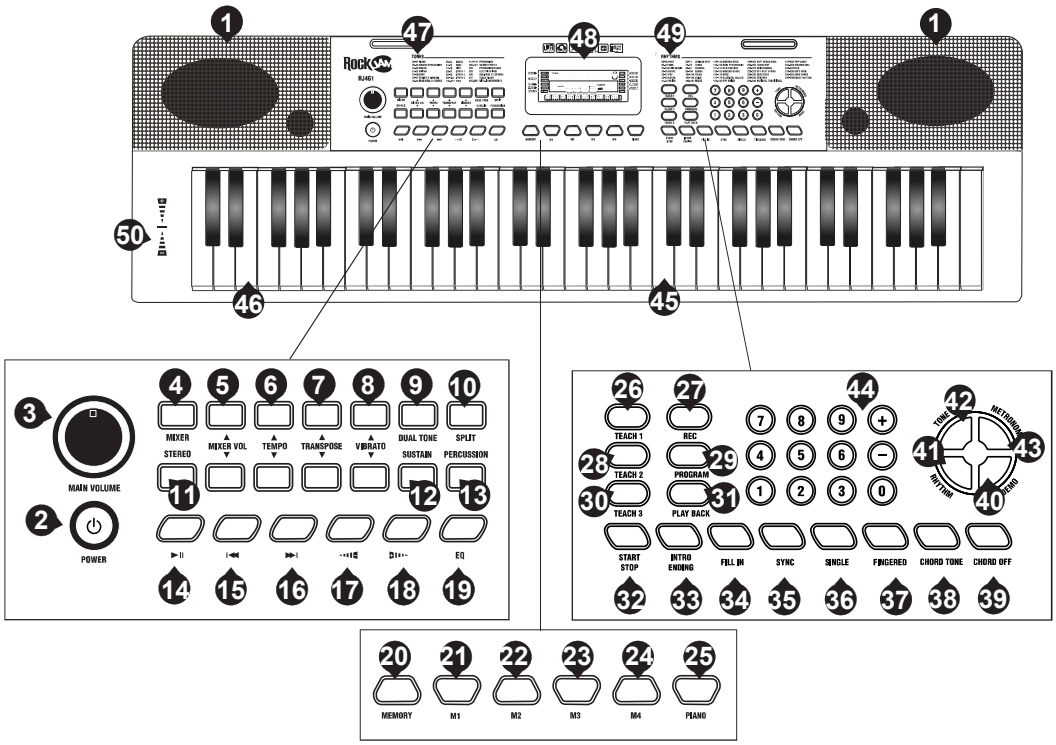
Keyboard Operation 10

- Power and Volume 10
  - Power control: 10
  - Adjustment of the Master Volume: 10
  - Adjustment of Mixer Volume: 11
- Tone 11
  - Tone Selection: 11
- Effect & Control 11
  - Pitch Slider: 11
  - Dual Tone Keyboard: 12
  - Split Keyboard: 12
  - Sound Output Mode: 13
  - Sustain: 13
  - Vibrato: 14
  - Transpose: 14
  - Metronome: 15
  - Panel Percussion Instruments: 15

Rhythm 16
Selecting the rhythm: 16
Start / Stop: 16
Sync: 16
Fill in: 17
Tempo Adjustment: 17
Chord Accompaniment 18
Single Finger Chords: 18
Multi Finger Chords: 18
Chord Tones: 19
Intro / Ending: 19
Recording Function 20
Rhythm Programming 20
Demo Songs 21
Setting Memories M1 to M4 21
Piano Key 21
Teaching Modes 22
Single Key Course: 22
Synchronised Course: 22
Concert Course: 22
Progressive Learning: 22
Appendix I. Percussion Instruments 23
Appendix II. Rhythm Table 24
Appendix III. Tone Table 26
Appendix IV. Demo Song Table 28
Appendix V. Troubleshooting 29
Appendix VI. Chord Tables 30
Single Finger Chords 30
Fingered Chords 31
Appendix VII. Technical Specification 32
FCC Compliance Statement 33
FCC Class B Part 15 33
Product Disposal Instructions (European Union) 33

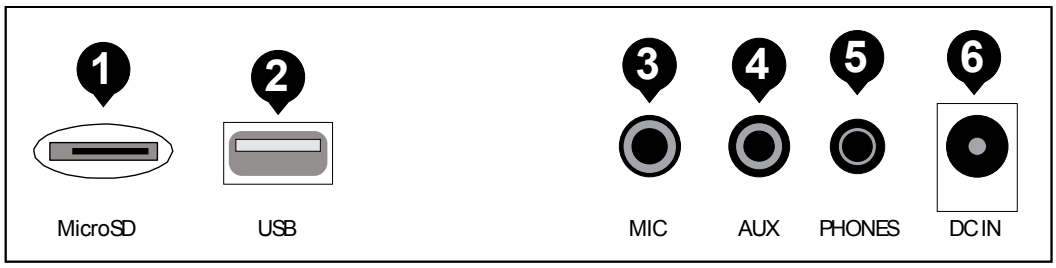
Controls, Indicators and External Connections

Front Panel



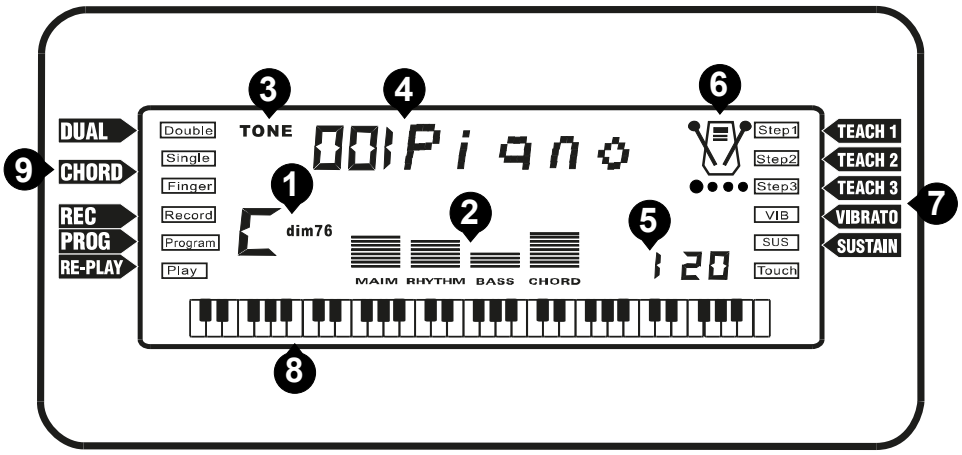
1. Speaker
2. Power Switch
3. Main Volume
4. Mixer
5. Mixer Vol +/-
6. Tempo +/-
7. Transpose +/-
8. Vibrato +/-
9. Dual Tone
10. Split
11. Stereo
12. Sustain
13. Percussion
14. Play/ Pause
15. Previous Song
16. Next Song
17. Music Volume -
18. Music Volume +
19. EQ
20. Memory
21. Memory Storage 1
22. Memory Storage 2
23. Memory Storage 3
24. Memory Storage 4
25. Piano Key
26. Teach 1
27. Record
28. Teach 2
29. Program
30. Teach 3
31. Playback
32. Start / Stop
33. Intro / Ending
34. Fill In
35. Sync
36. Single Finger Chord
37. Fingered Chord
38. Chord Tone
39. Chord Off
40. Demo
41. Rhythm
42. Tone
43. Metronome
44. Number Keys
45. Keyboard Playing Area
46. Chord Playing area
47. Tones List
48. LCD Screen
49. Rhythms List
50. Pitch Control

External Connections



1. Micro SD Card Slot (MP3 Playback)
2. USB Input (MP3 Playback)
3. MIC Input (Electret type)
4. AUX Input
5. Headphone Output
6. DC Input

LCD Display



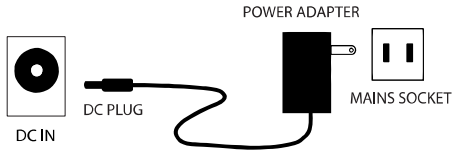
1. Playing chord indication
2. Volume level display
3. TONE, RHYTHM or demo SONG
4. Digital display for song, rhythm and tone number
5. Tempo value of rhythm and song (bpm)
6. Metronome for rhythm and song
7. Mode Indicator 1
8. Key Indicator
9. Mode Indicator 2

Preparation Before First Use

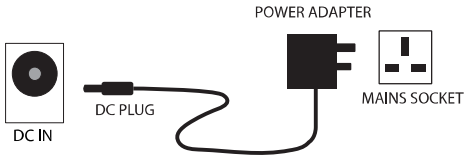
Power

Use of AC/DC power adapter:

Please use the AC/DC power adapter that came with the electronic keyboard or a power adapter with DC 9V output voltage and 500mA output current with a centre positive plug. Connect the DC plug of the power adapter into the DC IN power socket on the rear of the keyboard and then connect the other end into the mains wall socket and switch on.



USA / Canada



UK

Caution: When the keyboard is not in use you should unplug the power adapter from the mains power socket.

Battery operation:

Open the battery lid on the underneath of the electronic keyboard and insert 6 x 1.5V Size AA alkaline batteries. Ensure the batteries are inserted with the correct polarity and replace the battery lid.

Caution: Do not mix old and new batteries. Do not leave batteries in the keyboard if the keyboard is not going to be used for any length of time. This will avoid possible damage caused by leaking batteries.

Jacks and Accessories

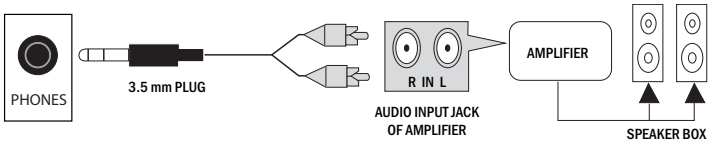
Using headphones:

Connect the 3.5mm headphone plug into the [PHONES] jack on the rear of the keyboard. The internal speaker will cut off automatically once headphones are connected. Headphones are not included.



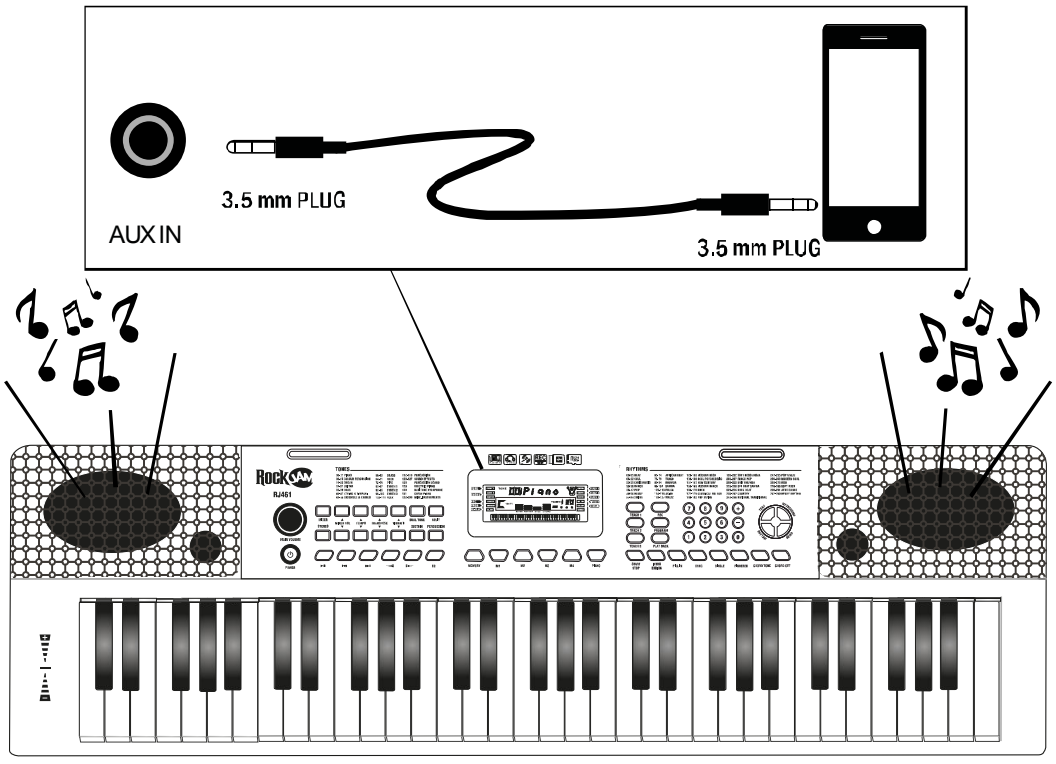
Connecting an Amplifier or Hi-Fi Equipment:

This electronic keyboard has a built in speaker system but it can be connected to an external amplifier or other hi-fi equipment. First turn off the power to the keyboard and any external equipment you are looking to connect. Next insert one end of a stereo audio cable (not included) into the LINE IN or AUX IN socket on the external equipment and connect the other end into the [PHONES] jack on the rear of the electronic keyboard.



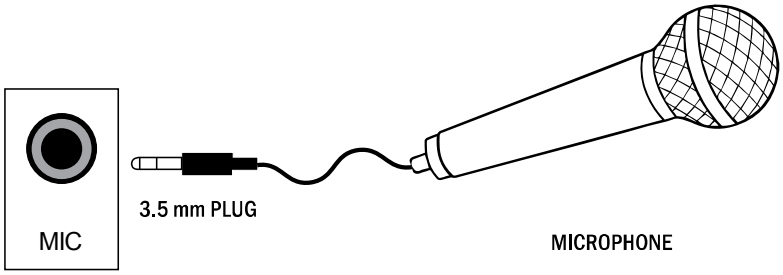
Connecting a phone or audio device to the AUX Input to play music through the keyboard:

This keyboard has a built-in speaker system that can be used to play music from your phone or mobile device. Insert one end of a stereo audio cable into the AUX IN socket on the back of the keyboard and connect the other end into your phone or audio device. Make sure the keyboard is switched on. Use the volume control of the phone to control the music volume. AUX in cable not included.



Connecting a Microphone:

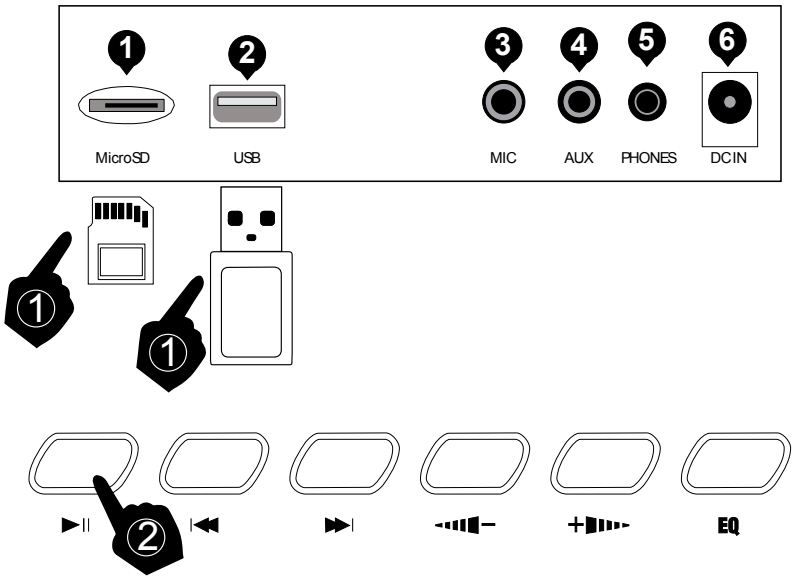
Connect the 3.5mm microphone plug into the [MIC] jack on the rear of the keyboard. The microphone should be an electret or condensor type.



Connecting a USB Flash-drive or MicroSD card:

To play MP3s through the Keyboard Speakers, place files onto either a USB flash-drive or MicroSD card. Insert the card or USB drive into the input slot at the rear of the Keyboard. The first song will play automatically.

- Touch the ▶II button to Play or Pause playback.
- Touch the ⏮ or ⏭ buttons to go to the previous or next song
- Touch the 🔉 or 🔊 buttons to increase or decrease the playback volume
- Touch the **EQ** button to adjust the playback tone. There are 6 different tone settings, each press will cycle to the next setting.

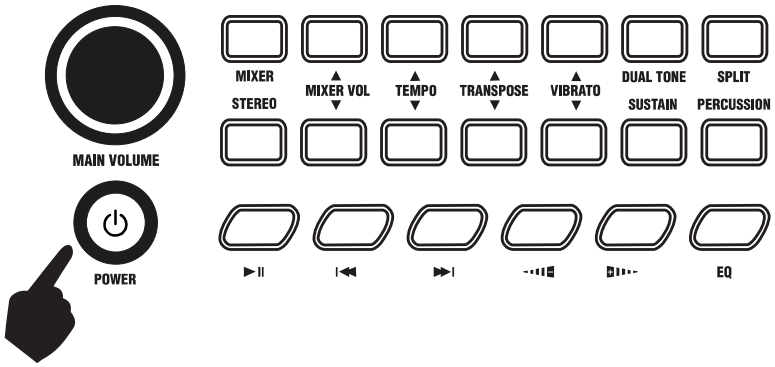


Keyboard Operation

Power and Volume

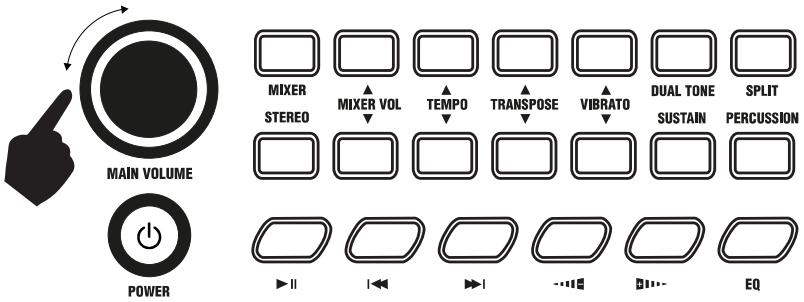
Power control:

Press the [POWER] button to turn the power on and again to turn the power off. The LCD screen will light up to indicate power on.



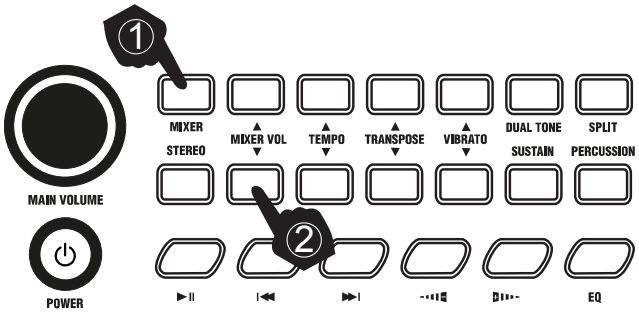
Adjustment of the Master Volume:

To change the volume, turn the MAIN VOLUME dial.



Adjustment of Mixer Volume:

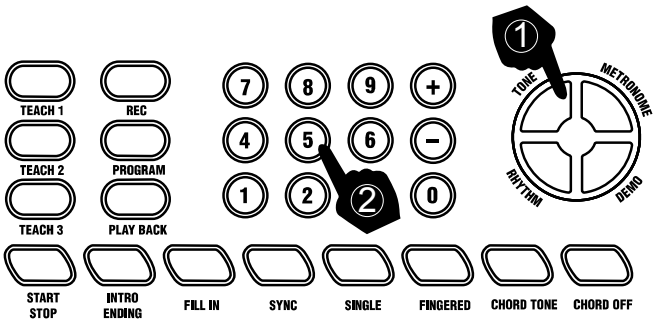
To change the CHORD, BASS CHORD or PERCUSSION volume, touch the MIXER button first to select the desired volume to be adjusted and then press the MIXER VOL [+ / -] buttons to change the volume.



Tone

Tone Selection:

When the keyboard is switched on the default TONE is ‘’00’’ Grand Piano. To change the tone, touch the TONE button first and then punch in a number code on the keypad by pressing the corresponding digits 0-9. Tones can also be changed by using the [+ / -] buttons on the key pad. Refer to Appendix III for a full list of the available tones and codes.



Effect & Control

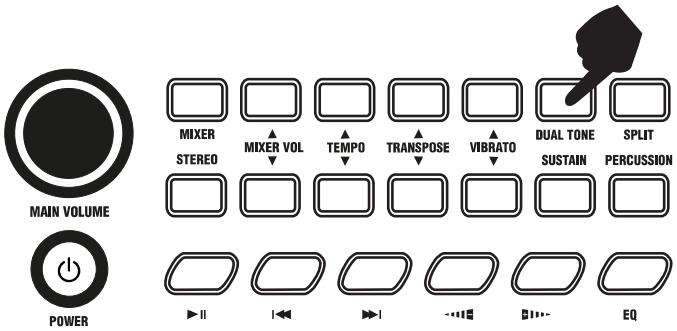
Pitch Slider:

The keyboard has a touch sensitive pitch slider on the left side panel. To increase or decrease the pitch of a note, touch the [-/+] on the pitch slider as desired.



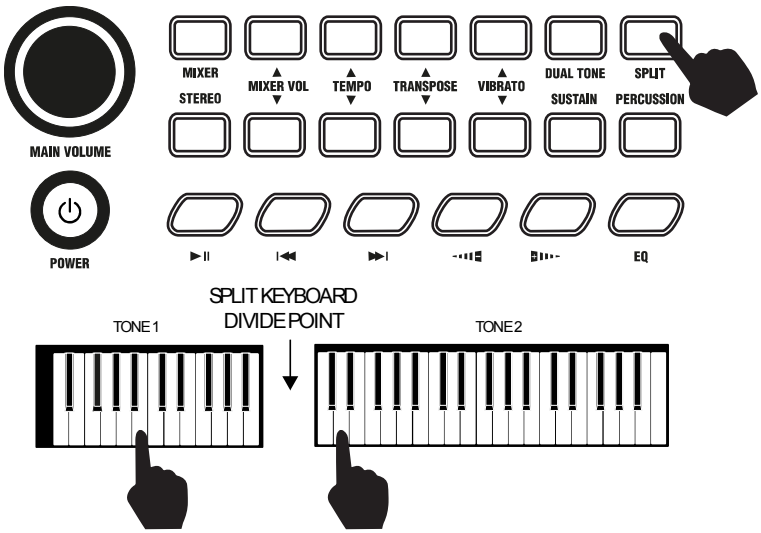
Dual Tone Keyboard:

Dual Tone mode allows the keyboard to mix two tones and play them at the same time. To switch on Dual Tone Keyboard mode touch the [DUAL TONE] button. The LCD display will show that Dual tone mode is active by showing a flag indicator on the LCD. The first tone will be fixed as the tone that was selected before the [DUAL TONE] button was pressed. The second tone can be freely selected by pressing the corresponding digits on the numerical keypad or pressing + or -. Press the [DUAL TONE] button again to exit Dual Tone mode.



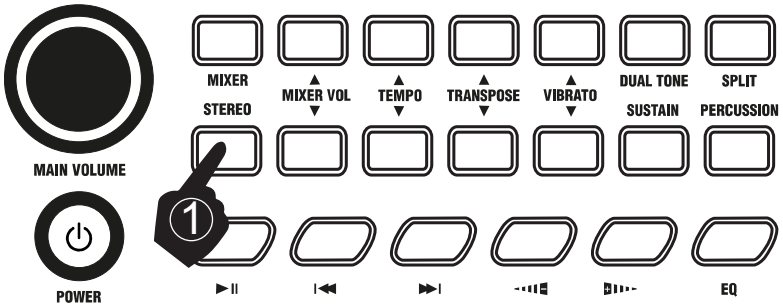
Split Keyboard:

To switch on Split Keyboard mode press the [SPLIT] button. The keyboard will split into two keyboards at the 24th key from the left. In Split Keyboard mode the pitch of the left hand keys are raised by one octave. The tone of the left keyboard can then be adjusted as required. Press the [SPLIT] button again to exit Split Keyboard mode.



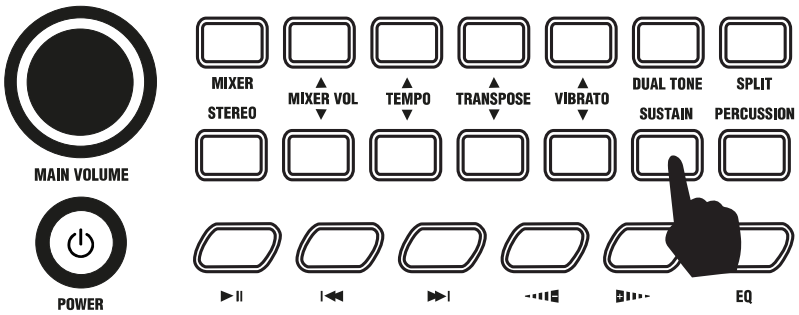
Sound Output Mode:

Press the [STEREO] button repeatedly to select the sound output mode [STERE1] [STERE2] [MONO] or [NORMAL].



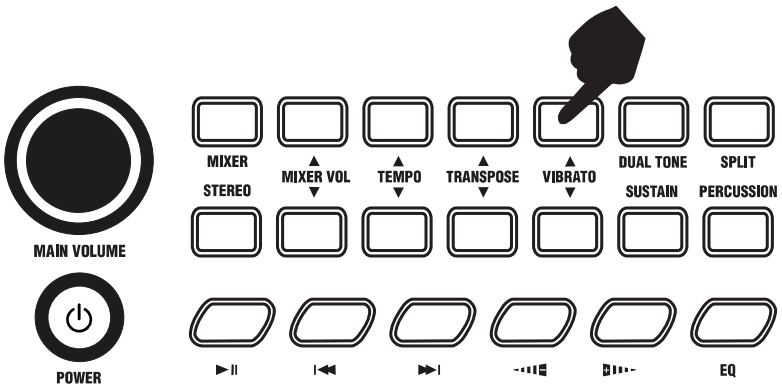
Sustain:

Touch the [SUSTAIN] button to enter Sustain mode. The LCD display will display a flag to show that [SUSTAIN] is on. Once this mode is selected the sound of each note played is prolonged. Touching the [SUSTAIN] button again will turn the sustain feature off and exit this mode.



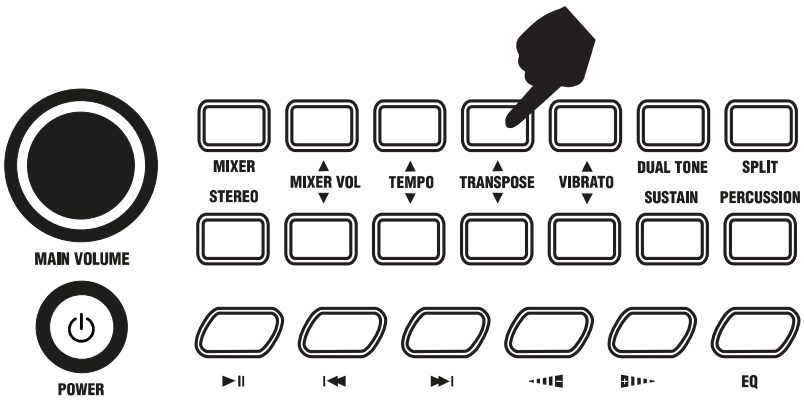
Vibrato:

The [VIBRATO] function adds a wavering quality to the note being played. You can adjust the amount of vibrato applied between 000 (Off) and 007 (Maximum). Pressing both the [VIBRATO] buttons at the same time will reset the level to 000 (Off). The Vibrato level is reset to 000 (Off) after power off and on.



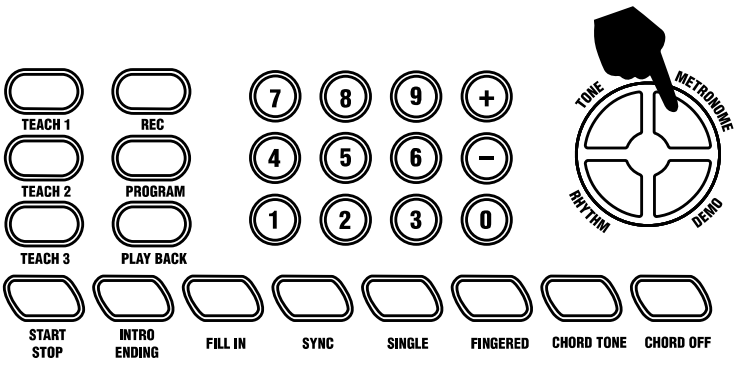
Transpose:

Touching the [TRANSPOSE] buttons alters the musical scale of the note being played. You can adjust the scale by 6 levels upwards or downwards. Pressing both the [TRANSPOSE] buttons at the same time will reset the transpose level to 0. The transpose level is reset to 0 after power off and on.



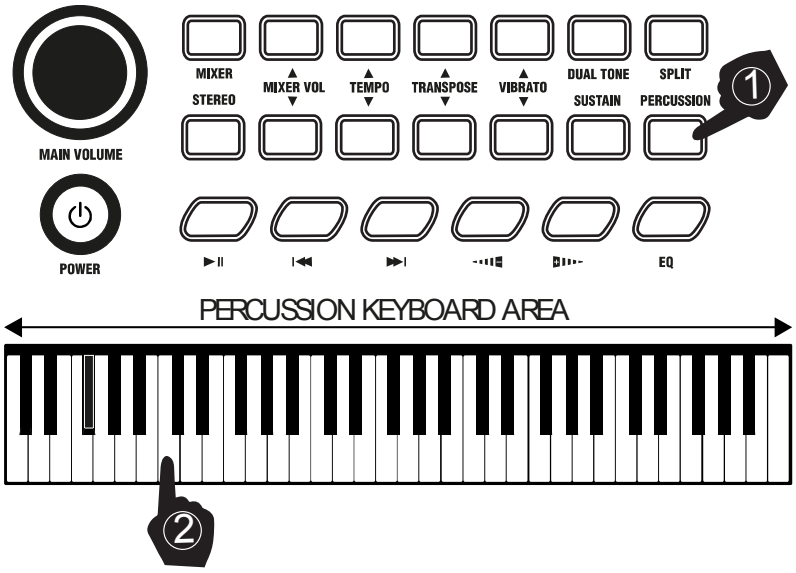
Metronome:

Touch the [METRONOME] button to start the tick-tock beat. There are four beats to choose from. Depending on what the performance needs, you can touch the [TEMPO] buttons to speed up or slow down the beat. Press the [METRONOME] button repeatedly to cycle through to the available beat patterns. The LCD display will indicate the beat you have chosen. The metronome effect is added to the music once you start playing. To exit this mode touch the [START/STOP] or [METRONOME] button again.



Panel Percussion Instruments:

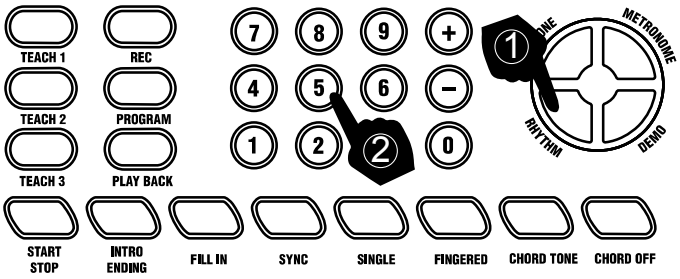
When the [PERCUSSION] button is touched all the keyboard's keys can be used to play percussion sounds. Touch the [PERCUSSION] button again to exit Percussion mode. Refer to Appendix I. for a table of the 61 different percussion sounds available



Rhythm

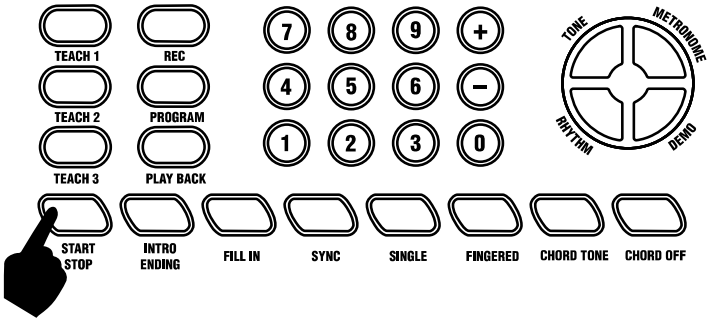
Selecting the rhythm:

You can choose from any of the 300 built in rhythms. Please refer to Appendix II. for the detailed rhythm table. Touch the [RHYTHM] button to enter the rhythm selection function. The LCD display will show the current rhythm number. You can select the rhythm you require by pressing the corresponding digits on the numerical keypad or by pressing the + / - buttons.



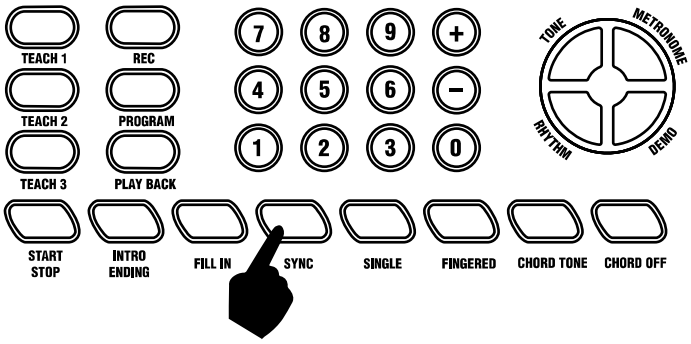
Start / Stop:

With a rhythm selected, press the [Start/Stop] button to start or stop playing the chosen rhythm



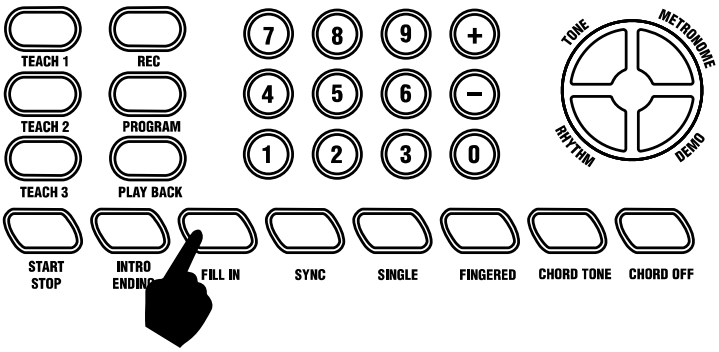
Sync:

Touch the [SYNC] button to select the synchronised accompaniment function. Then press any of the first 19 keys on the left hand side of the keyboard to start the selected rhythm playing. Touch the [START /STOP] button to stop the rhythm and exit the sync function.



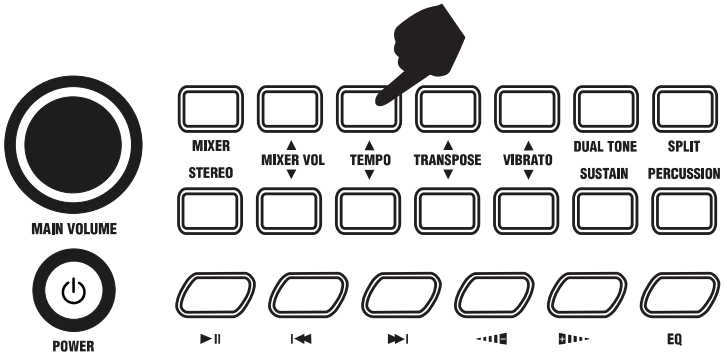
Fill in:

While playing a rhythm you can add a rhythmic fill if you touch the [FILL IN] button during playback. After the fill-in section the rhythm will continue playing as normal.



Tempo Adjustment:

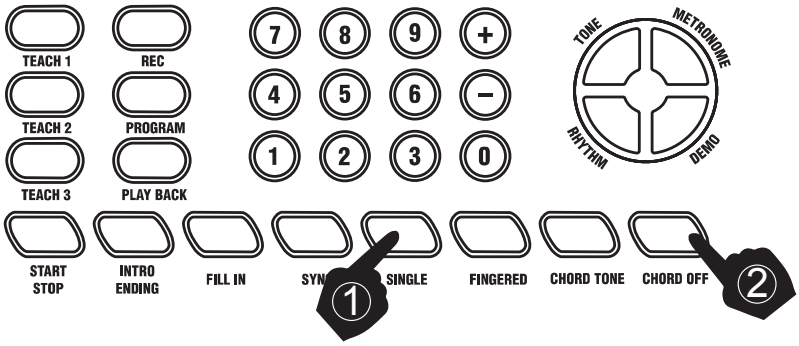
Touch the [TEMPO] buttons to adjust the tempo of the rhythm, metronome, or demo songs up or down. Press and hold to adjust the tempo quickly. The adjustment range is 30-240 bpm. Pressing both the [TEMPO] buttons at the same time will revert the tempo to the default tempo for the rhythm selected. At power on the tempo will be rest to 120 bpm.



Chord Accompaniment

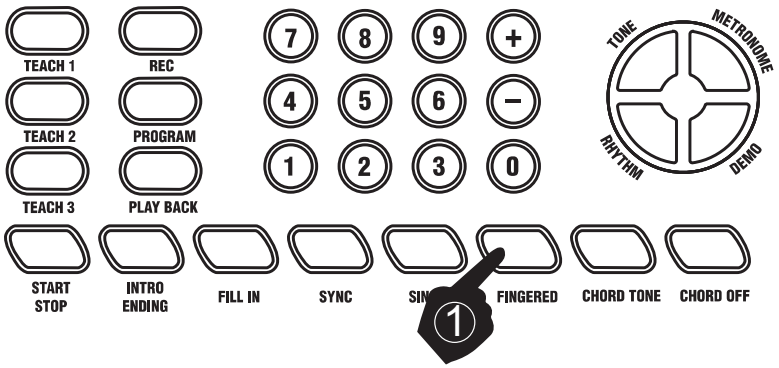
Single Finger Chords:

Touch the [SINGLE] button to activate the single finger chord function. The LCD screen will flag which function is activated. Chords are played by pressing a key in the chord area on the left hand side of the keyboard (keys 1-19). The finger patterns required are shown in Appendix VI. The played chord is displayed on the left side of the LCD display. Touch the [START / STOP] button to start or stop the chord accompaniment.



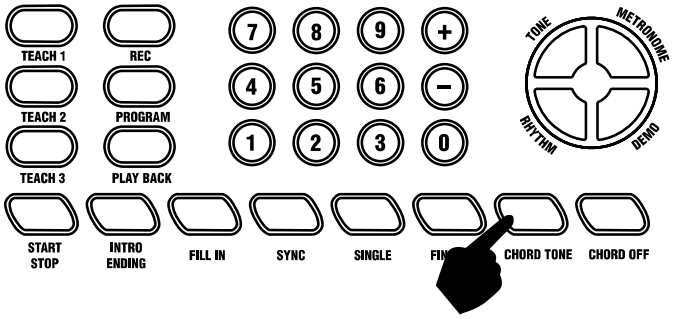
Multi Finger Chords:

Touch the [FINGERED] button to activate the multi-finger chord function. The LCD screen will flag which function is activated. Chords are played by pressing keys in the chord area on the left hand side of the keyboard (keys 1-19). The finger patterns required are shown in Appendix VI. The played chord is displayed on the left side of the LCD display. Touch the [START / STOP] button to start or stop the chord accompaniment. **Note:** For this function, it is important to use the finger patterns shown in Appendix VI or no chord sound will be heard.



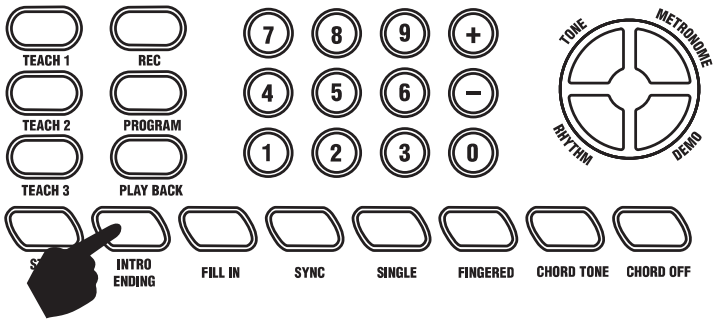
Chord Tones:

There are 5 chord accompaniment tones to choose from. To select a chord tone, touch the [CHORD TONE] button repeatedly to cycle through the available chord tones. To stop the chord accompaniment touch the [CHORD OFF] button.



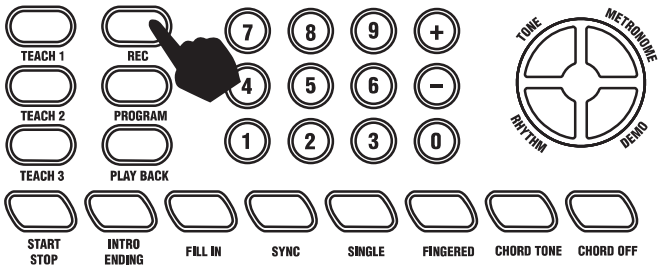
Intro / Ending:

With a rhythm selected, touch the [Intro / Ending] button to initiate an intro section. When the intro finishes playing, accompaniment shifts to the main section. Touch [Intro / Ending] button again to initiate an ending section. When the ending is finished, the auto accompaniment stops automatically

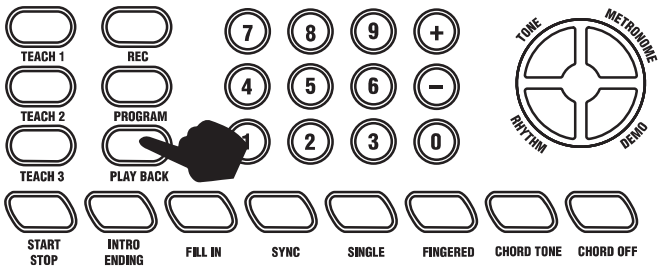


Recording Function

Touch the [REC] button to enter the recording mode. The LCD will show a flag on the left side to indicate that recording mode is on. Press any key to start recording. The maximum recording capacity is limited to 118 notes. The LCD will display [Full] if the recording capacity is reached.

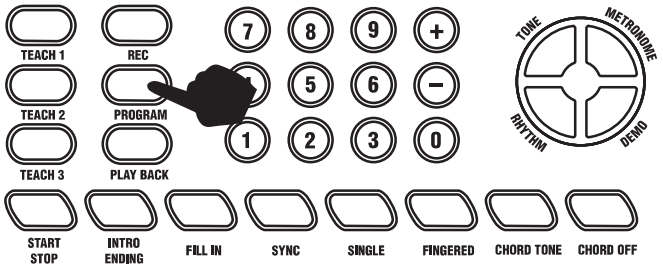


Touch the [PLAY BACK] button to play back the recorded notes.
Touch the [REC] button again to exit recording mode.



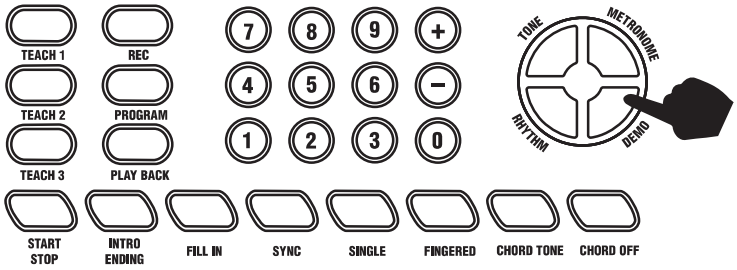
Rhythm Programming

Press the [PROGRAM] button to activate the Rhythm program mode. The LCD will flag that the rhythm program function is on. You can then play the keyboard and record a percussion track up to 32 beats. To playback the track touch the [PLAY BACK] button. Adjust the speed of the playback using the [TEMPO] buttons. To cancel the Program mode, touch the [PROGRAM] button again.



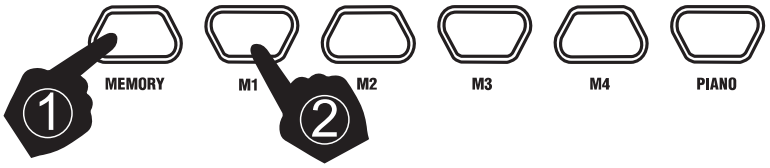
Demo Songs

Touch the [DEMO] button to play a demo song. The LCD display will show SONG followed by a number indicating the song being played. By pressing the digits or [+] and [-] buttons on the numerical keypad you can choose the demo song you require. There are 40 (000-039) demo songs to choose from in total. The keyboard will finish the chosen song and then start playing the next demo song. Touch the [DEMO] button again to exit the demo mode. Refer to Appendix IV. for a full list of the available Demo songs.



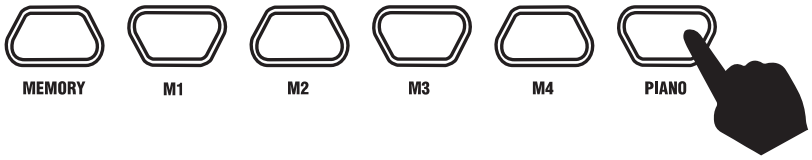
Setting Memories M1 to M4

The keyboard has four built in memories for saving specific volume levels, rhythm, tones and tempos. Before performing, select the VOLUME, TONE, RHYTHM and TEMPO you wish to use. Then press the [MEMORY] button, and at the same time either the [M1], [M2], [M3] or [M4] buttons to save the keyboard settings to that memory. You can access the stored keyboard settings you have saved by touching the [M1], [M2], [M3] or [M4] buttons before performing. All memories are saved and are still available after the keyboard has been switched off and back on again.



Piano Key

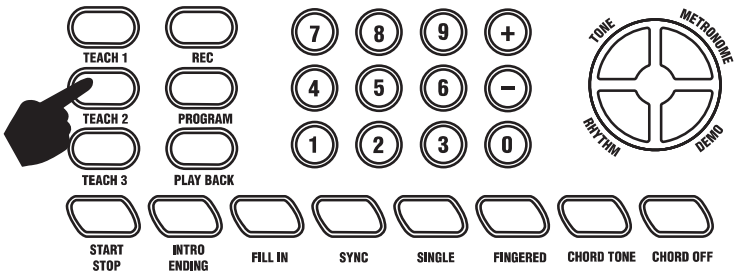
Press the [PIANO] key as a shortcut to quickly revert back to piano key sounds



Teaching Modes

Single Key Course:

Touch the [TEACH 1] button to enter the Single Key teaching mode. The LCD screen will flag Teach 1 on the right of the display area. This mode is suitable for beginners to familiarise themselves with the rhythm and tempo of a song. The LCD will show [SONG XXX Demo] where xxx is the number of the demo song selected. Select a different song using the [+/-] buttons or number keys. The beat point will flash on the LCD display to indicate the tempo. The keyboard will play the main melody in time with any key presses, even incorrect ones.



Synchronised Course:

Touch the [TEACH 2] to enter the Synchronised teaching mode. The LCD screen will flag Teach 2 on the right of the display area. This mode is suitable for more advanced users. The LCD will show [SONG XXX Demo] where xxx is the number of the demo song selected. Select a different song using the [+/-] buttons or number keys. The beat point will flash on the LCD display to indicate the tempo. The correct key to press next is displayed on the LCD display. Play along in time making sure to press and hold the correct keys in time as indicated. The song will not progress unless the correct key presses are made.

Concert Course:

Touch the [TEACH 3] to enter the Concert course teaching mode. The LCD screen will flag Teach 3 on the right of the display area. This mode is suitable for highly advanced users. The LCD will show [SONG XXX Demo] where xxx is the number of the demo song selected. Select a different song using the [+/-] buttons or number keys. The beat point will flash on the LCD display to indicate the tempo. The correct key to press is displayed on the LCD display. Play along in time with correct key presses.

Progressive Learning:

- In general, follow the sequence below to master any of the included songs.
- Listen to the song in DEMO mode to get an idea of the note timings and beat. When confident move on to the next stage.
- Access the same song in SINGLE KEY COURSE mode and duplicate the note timings using a single key. When mastered move onto the next stage.

- Access the same song in SYNC COURSE mode and play along by pressing the correct keys as indicated. When mastered move onto the next stage.

- Access the same song in CONCERT COURSE mode and play along by pressing the correct keys unaided. When mastered congratulate yourself and move onto a new song!

Appendix I. Percussion Instruments

No.	Percussion Instrument	No.	Percussion Instrument	No.	Percussion Instrument
1	C1 Click (Square Wave)	**21**	G#2 Hi-Hat Pedal	**41**	E4 Conga L
2	C#1 Brush Tap	**22**	A2 Low Tom	**42**	F4 Timbale H
3	D1 Brush Swirl	**23**	A#2 Hi-Hat Open	**43**	F#4 Timbale L
4	D#1 Brush Slap	**24**	B2 Mid Tom L	**44**	G4 Agogo H
5	E1 Brush Swirl W/Attack	**25**	C3 Mid Tom H	**45**	G#4 Agogo L
6	F1 Snare Roll	**26**	C#3 Crash Cymbal 1	**46**	A4 Cabasa
7	F#1 Castanet	**27**	D3 High Tom	**47**	A#4 Maracas
8	G1 Snare H Soft	**28**	D#3 Ride Cymbal 1	**48**	B4 Samba Whistle H
9	G#1 Sticks	**29**	E3 Chinese Cymbal	**49**	C5 Samba Whistle L
10	A1 Bass Drum H Soft	**30**	F3 Ride Cymbal Cup	**50**	C#5 Guiro Short
11	A#1 Open Rim Shot	**31**	F#3 Tambourine	**51**	D5 Guiro Long
12	B1 Bass Drum L	**32**	G3 Splash Cymbal	**52**	D#5 Claves
13	C2 Bass Drum H Hard	**33**	G#3 Cowbell	**53**	E5 Wood Block H
14	C#2 Closed Rim Shot	**34**	A3 Crash Cymbal	**54**	F5 Wood Block L
15	D2 Snare L	**35**	A#3 Vibraslap	**55**	F#5 Cuica Mute
16	D#2 Hand Clap	**36**	B3 Ride Cymbal 2	**56**	G5 Cuica Open
17	E2 Snare H Hard	**37**	C4 Bongo H	**57**	G#5 Triangle Mute
18	F2 Floor Tom L	**38**	C#4 Bongo L	**58**	A5 Triangle Open
19	F#2 Hi-Hat Closed	**39**	D4 Conga H Mute	**59**	A#5 Shaker
20	G2 Floor Tom H	**40**	D#4 Conga H Open	**60**	B5 Jingle Bell
				61	C6 Bell Tree

Appendix II. Rhythm Table

No.	Rhythm Name	No.	Rhythm Name	No.	Rhythm Name
000	8 Beat	**100**	Jazz Samba	**200**	Reggae-Pop 1
001	16 Beat	**101**	March 1	**201**	Reggae-Pop 2
002	Pop 8 Beat	**102**	March 2	**202**	European Traditions
003	Rock Beat	**103**	March 3	**203**	Tango Pop 1
004	Pop 16 Beat	**104**	March 4	**204**	Tango Pop 2
005	Soul Beat	**105**	Polka 1	**205**	Tango Pop 3
006	Soul 1	**106**	Polka 2	**206**	Rhythm Mambo 1
007	Soul 2	**107**	Polka 3	**207**	Rhythm Mambo 2
008	Soul 3	**108**	C & W 1	**208**	Brit Rhumba 1
009	Soul 4	**109**	C & W 2	**209**	Brit Rhumba 2
010	Soul 5	**110**	Blue Grass	**210**	Brit Rhumba 3
011	Soul 6	**111**	Country 1	**211**	Brit Rhumba 4
012	Slow Soul 1	**112**	Country 2	**212**	Brit Rhumba 5
013	Slow Soul 2	**113**	Country 3	**213**	Soul Bequine
014	Slow Soul 3	**114**	Middle East	**214**	Chamber Pop
015	Funky Soul 1	**115**	China 1	**215**	Neo-Merengue 1
016	Funky Soul 2	**116**	China 2	**216**	Neo-Merengue 2
017	Funky Soul 3	**117**	China 3	**217**	Big Beat
018	Funky Soul 4	**118**	Thailand	**218**	Plena Beat
019	Funky Soul 5	**119**	Waltz 1	**219**	Down Tempo
020	Funky Soul 6	**120**	Waltz 2	**220**	Electric Bachata 1
021	West Coast	**121**	Waltz 3	**221**	Electric Bachata 2
022	Euro Soul	**122**	Waltz 4	**222**	Electric Bachata 3
023	16 AOR 1	**123**	Jazz Waltz 1	**223**	Folk Samba 1
024	16 AOR 2	**124**	Jazz Waltz 2	**224**	Folk Samba 2
025	16 Beat 1	**125**	Jazz Waltz 3	**225**	Jump Samba 1
026	16 Beat 2	**126**	Country Waltz 1	**226**	Jump Samba 2
027	16 Beat 3	**127**	Country Waltz 2	**227**	Jump Samba 3
028	16 Ballad 1	**128**	8 beat Rock	**228**	Afro Samba
029	16 Ballad 2	**129**	16 beat Rock	**229**	Rock March 1
030	Pop Dance 1	**130**	Pop 8 Beat Rock	**230**	Rock March 2
031	Pop Dance 2	**131**	Beat Rock	**231**	Rock March 3
032	Pop Dance 3	**132**	Pop 16 beat Rock	**232**	Rock March 4
033	Shuffle 1	**133**	Soul Beat Rock	**233**	Polka Blues 1
034	Shuffle 2	**134**	Deep Soul 1	**234**	Polka Blues 2
035	8 Shuffle	**135**	Deep Soul 2	**235**	Polka Blues 3
036	Hard Rock	**136**	Deep Soul 3	**236**	Country Rock 1
037	Slow Rock1	**137**	Deep Soul 4	**237**	Country Rock 2
038	Slow Rock2	**138**	Deep Soul 5	**238**	Jazz Blues
039	Pop Classic	**139**	Deep Soul 6	**239**	Country Dance 1
040	Blues	**140**	Deep Slow Soul 1	**240**	Country Dance 2
041	Twist	**141**	Deep Slow Soul 2	**241**	Country Dance 3
042	Hard 3 Beat	**142**	Deep Slow Soul 3	**242**	World Fusion

043	Love Ballad 1	**143**	Soul Psychedelic 1	**243**	Chinese Traditional 1
044	Love Ballad 2	**144**	Soul Psychedelic 2	**244**	Chinese Traditional 2
045	Love Ballad 3	**145**	Soul Psychedelic 3	**245**	Chinese Traditional 3
046	Love Ballad 4	**146**	Soul Psychedelic 4	**246**	Thailand Rhythm
047	Euro Beat	**147**	Soul Psychedelic 5	**247**	Modern Waltz 1
048	House 1	**148**	Soul Psychedelic 6	**248**	Modern Waltz 2
049	House 2	**149**	Goth Psychedelic	**249**	Modern Waltz 3
050	Swing Beat	**150**	Psychedelic Swing	**250**	Modern Waltz 4
051	8 Ballad	**151**	Folk Rock 1	**251**	Brit Pop Waltz 1
052	Step	**152**	Folk Rock 2	**252**	Brit Pop Waltz 2
053	Big Band 1	**153**	New Century 1	**253**	Brit Pop Waltz 3
054	Big Band 2	**154**	New Century 2	**254**	Contemporary Waltz 1
055	Cobmo 1	**155**	New Century 3	**255**	Contemporary Waltz 2
056	Cobmo 2	**156**	16 Pop 1	**256**	Modern Soul 1
057	Swing 1	**157**	16 Pop 2	**257**	Modern Soul 2
058	Swing 2	**158**	Modern Dance 1	**258**	Modern Soul 3
059	Swing 3	**159**	Modern Dance 2	**259**	Modern Soul 4
060	Swing 4	**160**	Modern Dance 3	**260**	Modern Soul 5
061	Swing 5	**161**	Modern Dance 4	**261**	Modern Soul 6
062	Swing 6	**162**	Modern Dance 5	**262**	Modern Soul 7
063	Baiao	**163**	8 Post Rock	**263**	Modern Soul 8
064	Bolero	**164**	Classic Rock	**264**	Classical Soul 1
065	Bossanova 1	**165**	Jazz Rock 1	**265**	Classical Soul 2
066	Bossanova 2	**166**	Jazz Rock 2	**266**	Classical Soul 3
067	Bossanova 3	**167**	Traditional Pop	**267**	Classical Soul 4
068	Bossanova 4	**168**	Country Blues	**268**	Classical Soul 5
069	Bossanova 5	**169**	Indian Pop	**269**	Contemporary R&B 1
070	Calypso	**170**	Hard 3 Rock	**270**	Contemporary R&B 2
071	Habanera	**171**	Classical Ballad 1	**271**	Contemporary R&B 3
072	Reggae 1	**172**	Classical Ballad 2	**272**	Contemporary R&B 4
073	Reggae 2	**173**	Classical Ballad 3	**273**	Contemporary R&B 5
074	Jorpo	**174**	Classical Ballad 4	**274**	Contemporary R&B 6
075	Tango 1	**175**	Light Ballad	**275**	Contemporary R&B 7
076	Tango 2	**176**	Deep House	**276**	Contemporary R&B 8
077	Tango 3	**177**	Hard House	**277**	Deep Funk
078	Mambo 1	**178**	House Dance	**278**	European Jazz
079	Mambo 2	**179**	8 Pop	**279**	70's Rock
080	Rhumba 1	**180**	Japanese Folk Music	**280**	80's Rock
081	Rhumba 2	**181**	TripHop 1	**281**	16 Soft Rock 1
082	Rhumba 3	**182**	TripHop 2	**282**	16 Soft Rock 2
083	Rhumba 4	**183**	Chamber Pop 1	**283**	16 Soft Rock 3
084	Rhumba 5	**184**	Chamber Pop 2	**284**	16 Ballad Rock 1
085	Bequine	**185**	Pop Swing 1	**285**	16 Ballad Rock 2
086	Salsa	**186**	Pop Swing 2	**286**	Afro Dance 1
087	Merengue 1	**187**	Pop Swing 3	**287**	Afro Dance 2
088	Merengue 2	**188**	Pop Swing 4	**288**	Afro Dance 3
089	Vallenato	**189**	Pop Swing 5	**289**	Jazz Shuffle 1
090	Plena	**190**	Pop Swing 6	**290**	Jazz Shuffle 2
091	Lambada	**191**	Celtic Pop	**291**	8 Jazz Shuffle
092	Bachata 1	**192**	Hawaiian Pop	**292**	Heavy Metal Rock

093	Bachata 2	**193**	Soft Bossanova 1	**293**	Rock Dance 1
094	Bachata 3	**194**	Soft Bossanova 2	**294**	Rock Dance 2
095	Samba 1	**195**	Soft Bossanova 3	**295**	Middle East Pop
096	Samba 2	**196**	Soft Bossanova 4	**296**	Soul Blues
097	Pop Samba 1	**197**	Soft Bossanova 5	**297**	Glam Rock
098	Pop Samba 2	**198**	Mento	**298**	Hard House
099	Pop Samba 3	**199**	Shima Uta	**299**	Light Ballad

Appendix III. Tone Table

No.	Tone Name	No.	Tone Name	No.	Tone Name
000	Acoustic Grand Piano	**100**	FX 5 (Brightness)	**200**	Baritone Trumpet
001	Bright Acoustic Piano	**101**	FX 6 (Goblins)	**201**	Trumpet Ensemble
002	Electric Grand Piano	**102**	FX 7 (Echoes)	**202**	Rhythm Trumpet
003	Honky-tonk Piano	**103**	FX 8 (Sci-Fi)	**203**	High Trumpet
004	Rhodes Piano	**104**	Sitar	**204**	Synth Trumpet
005	Chorused Piano	**105**	Banjo	**205**	Baritone Trombone
006	Harpsichord	**106**	Shamisen	**206**	Trombone Ensemble
007	Clavichord	**107**	Koto	**207**	Rhythm Trombone
008	Celesta	**108**	Kalimba	**208**	High Trombone
009	Glockenspiel	**109**	Bagpipe	**209**	Baritone Trombone
010	Music box	**110**	Fiddle	**210**	Synth Trombone
011	Vibraphone	**111**	Shanai	**211**	Violin French Horn
012	Marimba	**112**	Tinkle Bell	**212**	French Horn Ensemble
013	Xylophone	**113**	Agogo	**213**	Electronic French Horn
014	Tubular Bells	**114**	Steel Drums	**214**	Synth French Horn
015	Dulcimer	**115**	Woodblock	**215**	Psychedelic Synth Brass
016	Hammond Organ	**116**	Taiko Drum	**216**	Distortion Synth Brass
017	Percussive Organ	**117**	Melodic Tom	**217**	Vibraphone Synth Brass
018	Rock Organ	**118**	Synth Drum	**218**	Rock Synth Brass
019	Church Organ	**119**	Reverse Cymbal	**219**	Synth Muted Trumpet
020	Reed Organ	**120**	Guitar Fret Noise	**220**	Soprano Sax Ensemble
021	Accordian	**121**	Breath Noise	**221**	Rhythm Soprano Sax
022	Harmonica	**122**	Seashore	**222**	Synth Soprano Sax
023	Tango Accordian	**123**	Bird Tweet	**223**	National Sax
024	Acoustic Guitar (Nylon)	**124**	Telephone Ring	**224**	Metal Sax
025	Acoustic Guitar (Steel)	**125**	Helicopter	**225**	Baritone Sax Ensemble
026	Electric Guitar (Jazz)	**126**	Applause	**226**	Crystal Sax
027	Electric Guitar (Clean)	**127**	Gunshot	**227**	Soft Baritone Sax
028	Electric Guitar (Muted)	**128**	Percussion	**228**	Synth Baritone Sax
029	Overdriven Guitar	**129**	Rhythm Electric Piano	**229**	Heavy Metal Sax
030	Distortion Guitar	**130**	Baritone Xylophone	**230**	Church Oboe
031	Guitar Harmonics	**131**	Clean Piano	**231**	Oboe Ensemble
032	Acoustic Bass	**132**	Bright Dulcimer	**232**	Bass Oboe
033	Electric Bass(finger)	**133**	Rhythm Grand Piano	**233**	Bright Oboe

034	Electric Bass (Pick)	**134**	Traditional Piano	**234**	Distortion Oboe
035	Fretless Bass	**135**	Aluminium Jean	**235**	English Horn Ensemble
036	Slap Bass 1	**136**	Rock Grand Piano	**236**	Pizzicato English Horn
037	Slap Bass 2	**137**	Electronic Organ	**237**	Diplophonia English Horn
038	Synth Bass 1	**138**	Psychedelic Electronic	**238**	Bright English Horn
039	Synth Bass 2	**139**	Water Jean	**239**	Synth English Horn
040	Violin	**140**	Bright Guitar	**240**	Psychedelic Synth Lead
041	Viola	**141**	Orchestra Piccolo	**241**	Vibraphone Synth Lead
042	Cello	**142**	Heavy Metal Guitar	**242**	Marimba Synth Lead
043	Contrabass	**143**	Crystal Guitar	**243**	Metal FX
044	Tremolo Strings	**144**	Qr Electric Piano	**244**	Electronic FX
045	Pizzicato Strings	**145**	Bright Bass	**245**	Electronic String Ensemble
046	Orchestral Harp	**146**	Rock Electric Bass	**246**	Wind FX
047	Timpani	**147**	Rhythm Electric Bass	**247**	Clarinet FX
048	String Ensemble 1	**148**	Psychedelic Bass	**248**	Organ FX
049	String Ensemble 2	**149**	Heavy Metal bass	**249**	Crystal FX
050	Synth Strings 1	**150**	Magic Electronic	**250**	Synth Shamisen
051	Synth Strings 2	**151**	Bright Violin	**251**	Electronic Shamisen
052	Choir Aahs	**152**	Atonic Violin	**252**	Bright Sitar
053	Voice Oohs	**153**	Heavy Bass Orchestra	**253**	Whistle Accord
054	Synth Voice	**154**	Synth Clarinet	**254**	Rhythm Nation
055	Orchestra Hit	**155**	Interactive Lead	**255**	Bright Koto
056	Trumpet	**156**	For The keyboard	**256**	Koto Lead
057	Trombone	**157**	Bagpipes	**257**	Diplophonia Koto
058	Tuba	**158**	Suona	**258**	Baritone Koto
059	Muted Trumpet	**159**	Pipa	**259**	Synth Koto
060	French Horn	**160**	Church Piano	**260**	Environmental Lead
061	Brass Section	**161**	Church Electric Piano	**261**	Metal Lead
062	Synth Brass 1	**162**	Synth Piano	**262**	Orchestra Lead
063	Synth Brass 2	**163**	Baritone Piano	**263**	Glockenspiel Lead
064	Soprano Sax	**164**	Piano PAD	**264**	Bass Lead
065	Alto Sax	**165**	String Piano	**265**	Fifths Lead
066	Tenor Sax	**166**	Metal Piano	**266**	Wind Lead
067	Baritone Sax	**167**	Light Rhythm Piano	**267**	Atmosphere Lead
068	Oboe	**168**	Electric Piano Pad	**268**	Sharp Lead
069	English Horn	**169**	Classical Piano	**269**	Bright Lead
070	Bassoon	**170**	Guitar Organ	**270**	East Nation Pad
071	Clarinet	**171**	An Electric Guitar	**271**	Atmosphere Pad
072	Piccolo	**172**	Synthesis Nylon Guitar	**272**	Electric Bass Pad
073	Flute	**173**	Synthetic Electronic guitar	**273**	Electric Piano Pad
074	Recorder	**174**	Bright Clean Guitar	**274**	Clean Guitar Pad
075	Pan Flute	**175**	Orchestral Guitar	**275**	Western Pad
076	Bottle Blow	**176**	Psychedelic Guitar	**276**	Sci-Fi Pad
077	Shakuhachi	**177**	Bright Organ	**277**	Metal Sci-Fi Pad
078	Whistle	**178**	Pick Organ	**278**	Clarinet Pad
079	Ocarina	**179**	Synth Accordion	**279**	Electronic Dance Pad
080	Lead 1 (Square)	**180**	Bright Violin	**280**	Double Kalimba
081	Lead 2 (Sawtooth)	**181**	Stringed violin	**281**	Bright Kalimba
082	Lead 3 (Caliope Lead)	**182**	Trill Violin	**282**	Crystal Kalimba
083	Lead 4 (Chiff Lead)	**183**	Electronic violin	**283**	Synth Kalimba

084	Lead 5 (Charang)	**184**	Large Violin	**284**	Electronic Bagpipe
085	Lead 6 (Voice)	**185**	Rhythm Orchestra	**285**	Wind Bagpipe
086	Lead 7 (Fifths)	**186**	Pizzicato Violin	**286**	High Bagpipe
087	Lead 8 (Bass+Lead)	**187**	Pizzicato Ensemble 1	**287**	Bright Bagpipe
088	Pad 1 (New Age)	**188**	Pizzicato Ensemble 2	**288**	Orchestra Bagpipe
089	Pad 2 (Warm)	**189**	Percussion Band	**289**	Baritone Bagpipe
090	Pad 3 (Polysynth)	**190**	Baritone Synth Contrabass	**290**	Environmental Shanai
091	Pad 4 (Choir)	**191**	Bass Flute	**291**	Baritone Shanai
092	Pad 5 (Bowed)	**192**	Distortion Contrabass	**292**	Tenor Shanai
093	Pad 6 (Metallic)	**193**	Contrabass Lead	**293**	High Shanai
094	Pad 7 (Halo)	**194**	Violin Lead	**294**	Synth Shanai
095	Pad 8 (Sweep)	**195**	Cello Lead	**295**	Bright Steel Drums
096	FX 1 (Rain)	**196**	Pizzicato Rhythm	**296**	Steel Drums Lead
097	FX 2 (Soundtrack)	**197**	High Harp	**297**	Lyric Steel Drums
098	FX 3 (Crystal)	**198**	Harp Ensemble	**298**	Orchestra Steel Drums
099	FX 4 (Atmosphere)	**199**	Synth Harp	**299**	Synth Steel Drums

Appendix IV. Demo Song Table

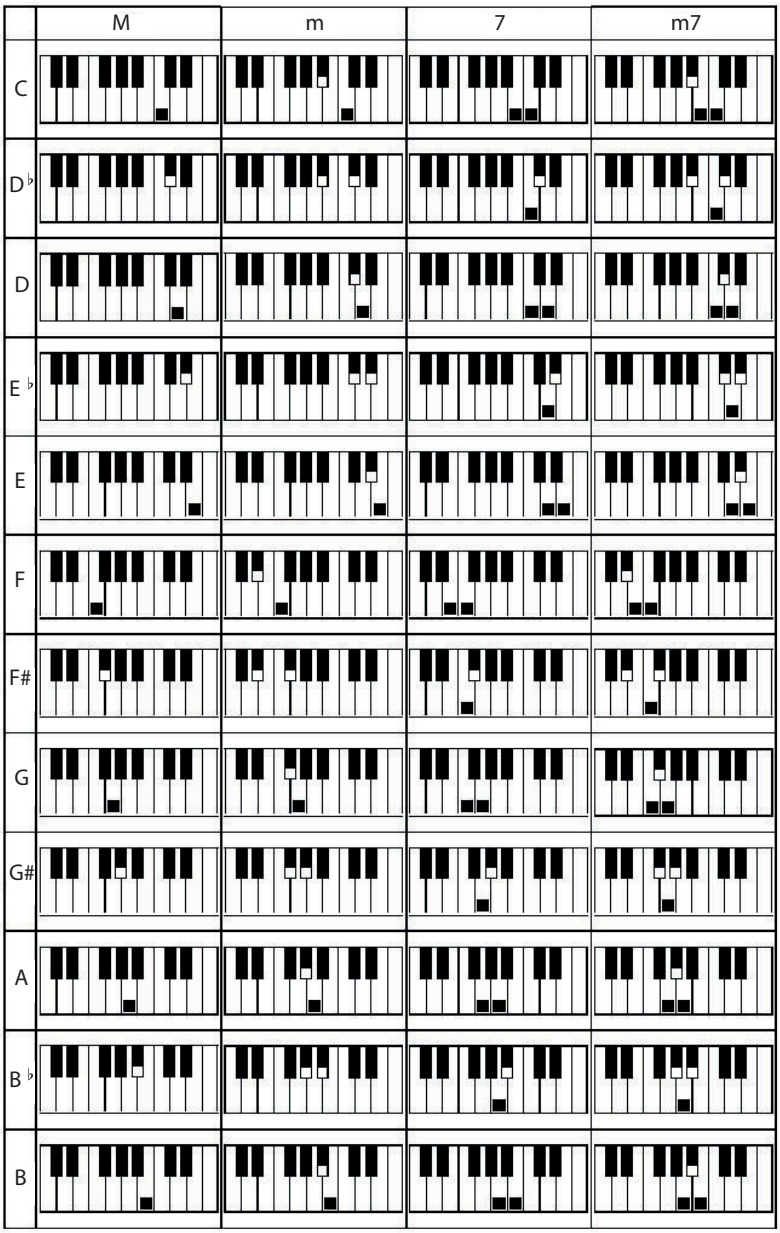
No.	Name of Song	No.	Name of Song
00	Canon	20	Butterfly love
01	Above the moon	21	Rhythm of the rain
02	Chinese Gangnam style	22	Happy birthday to you
03	Where is the time	23	Twinkle twinkle little star
04	Little apple	24	Happiness at sunrise
05	Bright spring day	25	If you're happy and you know it
06	Butterfly rain	26	Mary had a little lamb
07	Passionate	27	Flight of the bumble bee
08	Where are we going dad	28	A comme amour
09	Let it go	29	On Wings of Song
10	Love is simple	30	Come back to Sorrento
11	Jasmine flower	31	A maiden's prayer
12	Moonlight over the lotus pond	32	Wedding march
13	Far well	33	Fur Elise
14	For whom	34	Radetzky march
15	Song of herding sheep	35	Mozart piano sonata
16	Prairie song	36	Hungarian dance
17	Gardenia in blossom	37	Nocturne
18	Chinese New Year	38	Flower waltz
19	Place of flower in full bloom	39	Cuckoo waltz

Appendix V. Troubleshooting

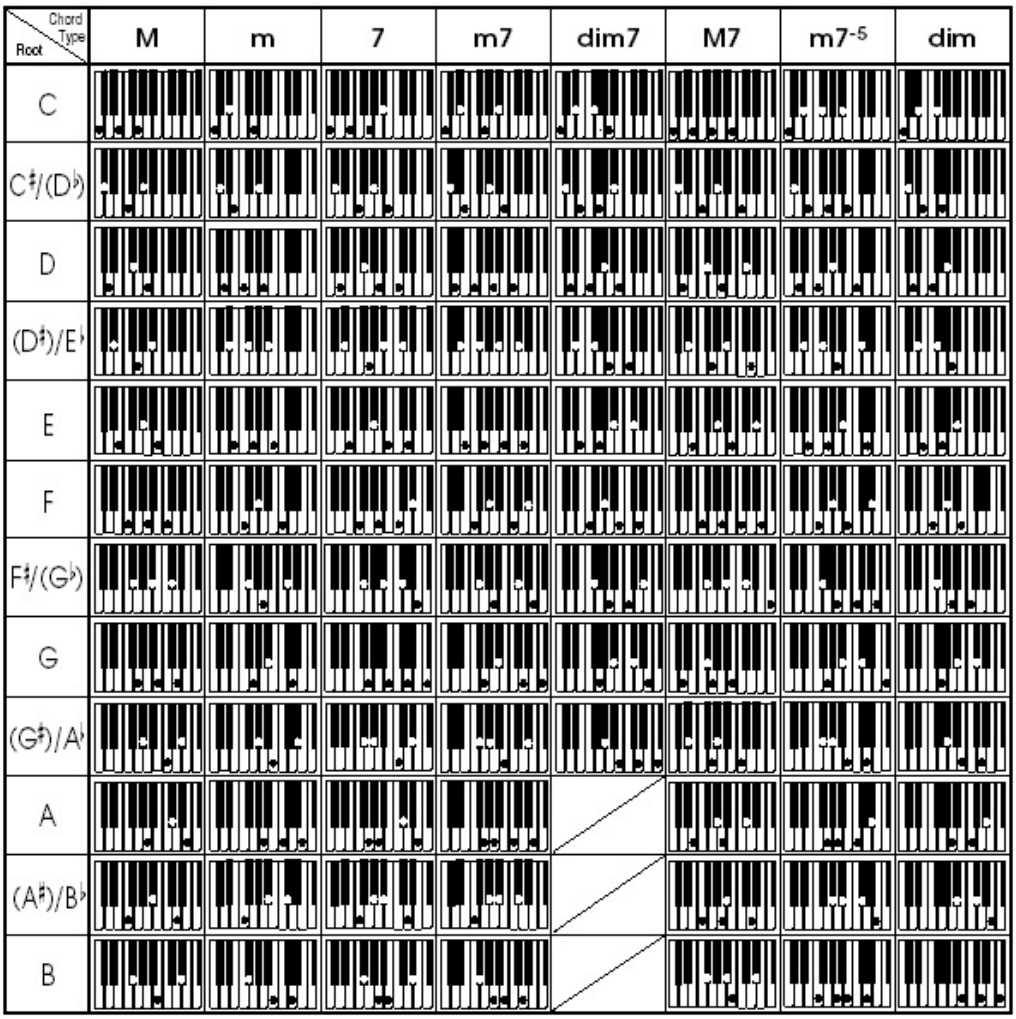
Problem	Possible Reason / Solution
A faint noise is heard when turning the power on or off.	This is normal and nothing to worry about.
After turning the power on to the keyboard there was no sound when the keys were pressed.	Check the master volume is set to the correct volume. Check that headphones or any other equipment are not plugged into the keyboard as these will cause the built-in speaker system to cut off automatically.
Sound is distorted or interrupted and the keyboard is not working properly.	Use of incorrect power adapter. Use the power adapter supplied or the batteries may need replacing.
There is a slight difference in timbre of some notes.	This is normal and is caused by the many different voice sampling ranges of the keyboard.
When using the sustain function some tones have long sustain and some short sustain.	This is normal. The best length of sustain for different tones has been pre-set.
The main volume or mixer volume is not right.	Check that the main (master) volume and mixer volume are set correctly. Note that the main volume also affects the mixer volume.
In SYNC mode the auto accompaniment does not start.	Check to make sure that you are playing a note from the first 19 keys on the left hand side of the keyboard to start the accompaniment.
The pitch of the note is not correct	Check that the transpose is set to 00.

Appendix VI. Chord Tables

Single Finger Chords



Fingered Chords



Appendix VII. Technical Specification

- **Display**
  LCD Display with staff and key Indication
- 61 Full-size keys
- **Tone**
  300 tones
- **Rhythm**
  300 rhythms
- **Demo**
  40 different demo songs
- **Effect and Control**
  Dual tone, Split keyboard, Sustain, Vibrato, Transpose, Pitch controller
- **Recording and Programming**
  118 Note record memory, Playback, 32 Beat rhythm programming
- **Percussion**
  61 different instruments
- **Accompaniment Control**
  Start/Stop, Sync, Fill in, Tempo, Intro/Ending
- **Intelligent Teaching**
  Metronome, 3 teaching modes
- **External Jacks**
  Power input, Headphone output, Microphone (Electret) input, USB and Micro SD Music input, AUX Input
- **Diapason (Range of Keyboard)**
  C2- C7 (61 keys)
- **Intonation**
  <3cent
- **Weight**
  3.2kg
- **Power Adapter**
  DC9V, 500mA
- **Battery operation**
  6 x AA 1.5V Alkaline
- **Output Power**
  2W x 2
- **Accessories included**
  Power adapter, Sheet music stand, User guide

FCC Compliance Statement

FCC Class B Part 15

This device complies with Part 15 of the Federal Communications Commission (FCC) Rules. Operation is subject to the following two conditions:

This device may not cause harmful interference.
This device must accept any interference received, including interference that may cause undesired operation.

CAUTION:
Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
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 manufacturer's instructions, may cause interference harmful to radio communications.

There is no guarantee, however, 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 to an outlet on a circuit different from that to which the receiver is connected.
Consult the dealer or an experienced radio or TV technician for help.

Product Disposal Instructions (European Union)



The symbol shown here and on the product, means that the product is classed as Electrical or Electronic Equipment and should not be disposed with other household or commercial waste at the end of its working life. The Waste Electrical and Electronic Equipment (WEEE) Directive (2012/19/EU) has been put in place to encourage the recycling of products using best available recovery and recycling techniques to minimise the impact on the environment, treat any hazardous substances and avoid the increase of landfill. When you have no further use for this product, please dispose of it using your local authority's recycling processes. For more information please contact your local authority or the retailer where the product was purchased.

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