



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.

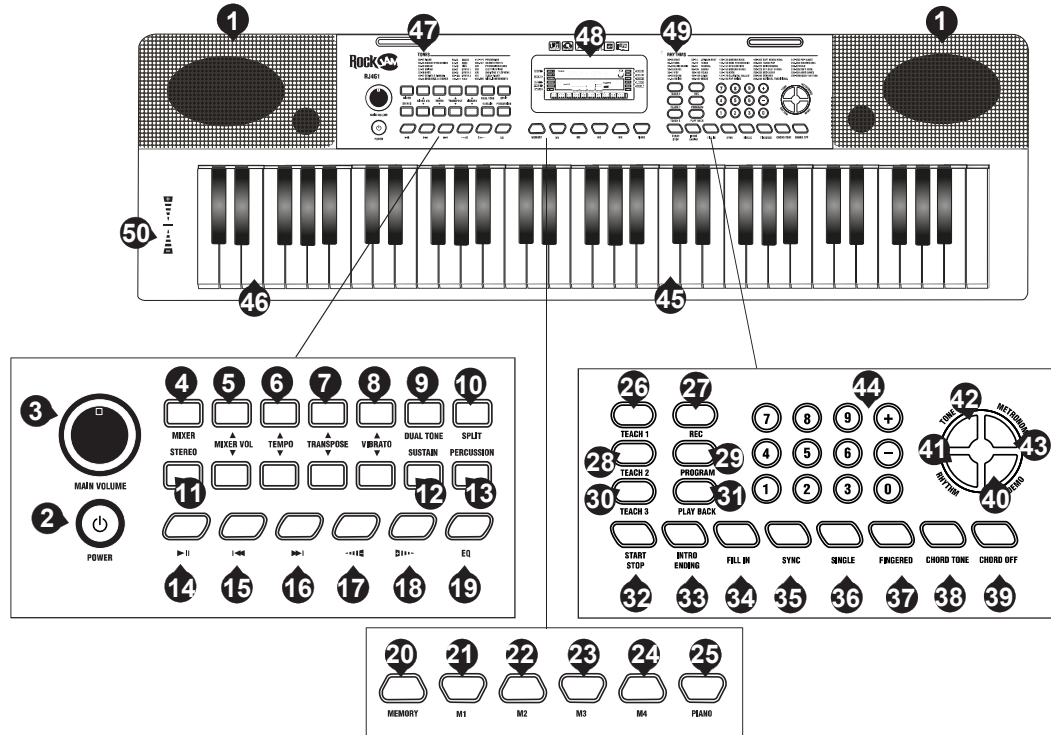
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Controls, Indicators and External Connections

Front Panel



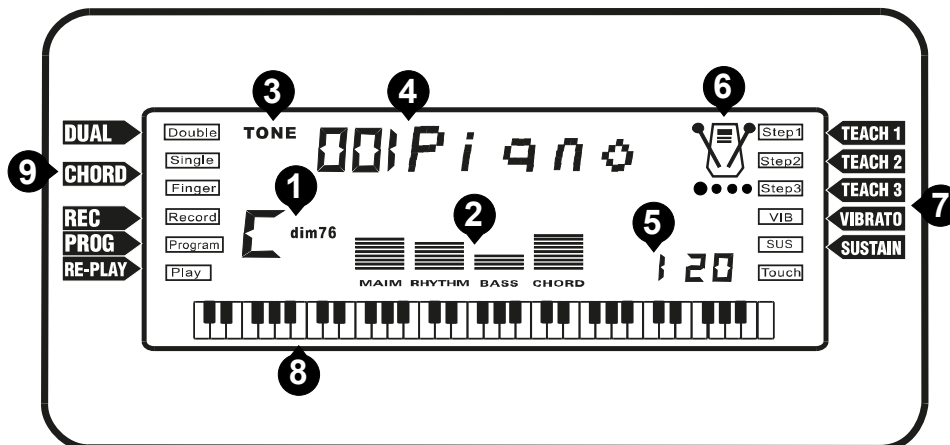
- | | | |
|-------------------|----------------------|---------------------------|
| 1. Speaker | 17. Music Volume - | 34. Fill In |
| 2. Power Switch | 18. Music Volume + | 35. Sync |
| 3. Main Volume | 19. EQ | 36. Single Finger Chord |
| 4. Mixer | 20. Memory | 37. Fingered Chord |
| 5. Mixer Vol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



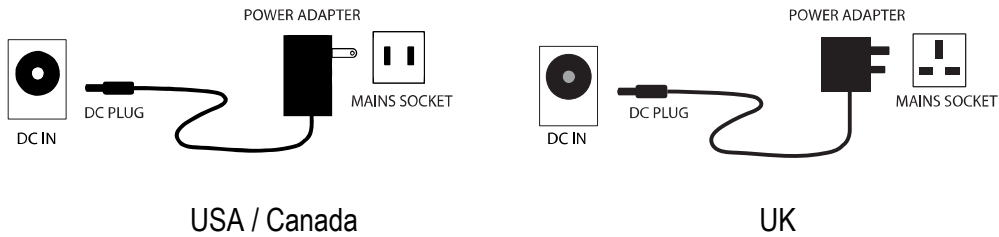
1. Playing chord indication
2. Volume level display
3. TONE, RHYTHM or demo SONG
4. Digital display for song, rhythm and tone number
5. Tempo value of rhythm and song (bpm)
6. Metronome for rhythm and song
7. Mode Indicator 1
8. Key Indicator
9. Mode Indicator 2

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.



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

Battery operation:

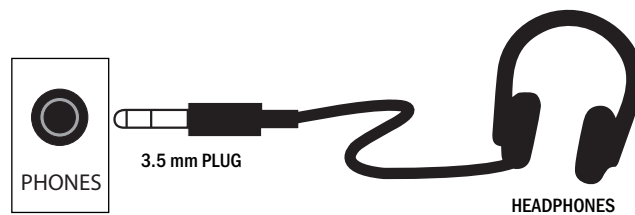
Open the battery lid on the underneath of the electronic keyboard and insert 6 x 1.5V Size AA alkaline batteries. Ensure the batteries are inserted with the correct polarity and replace the battery lid.

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

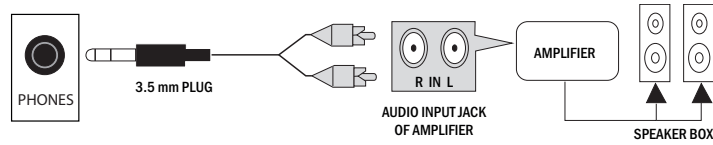
Using headphones:

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.



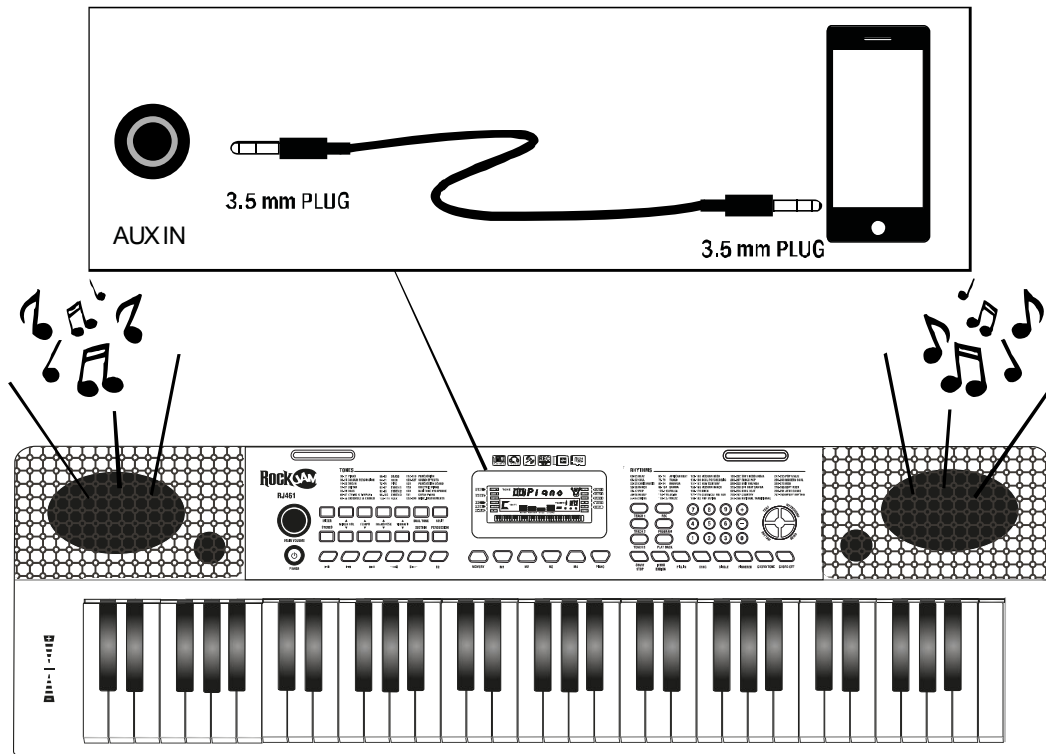
Connecting an Amplifier or Hi-Fi Equipment:

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.



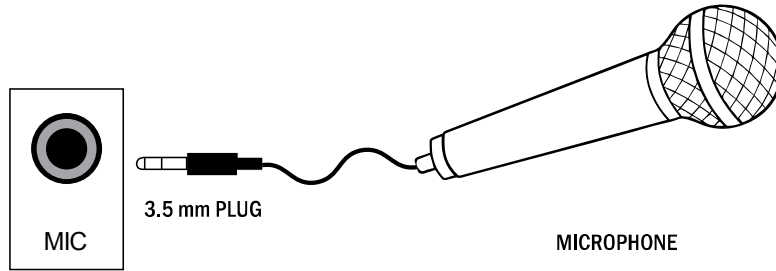
Connecting a phone or audio device to the AUX Input to play music through the keyboard:

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:

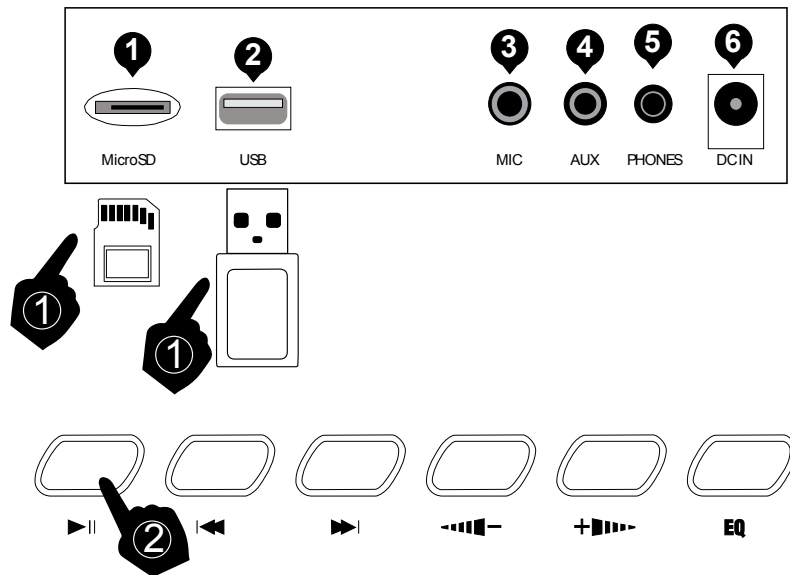
Connect the 3.5mm microphone plug into the [MIC] jack on the rear of the keyboard. The microphone should be an electret or condenser type.



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  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.

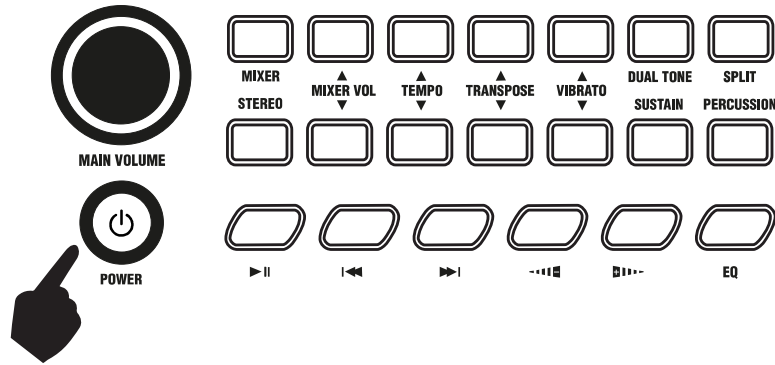


Keyboard Operation

Power and Volume

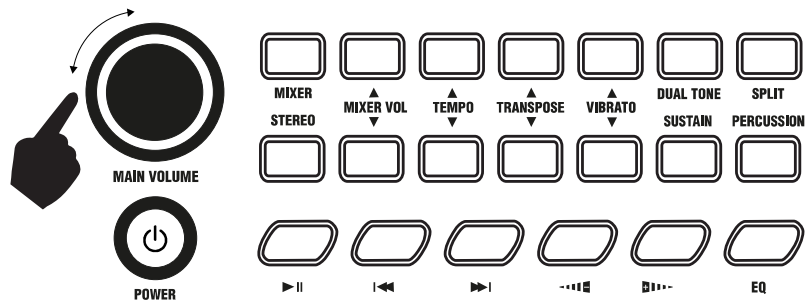
Power control:

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.



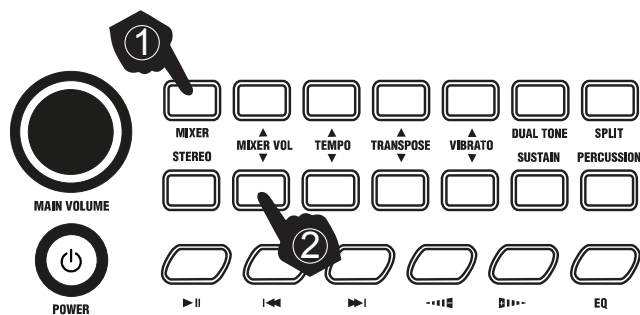
Adjustment of the Master Volume:

To change the volume, turn the MAIN VOLUME dial.



Adjustment of Mixer Volume:

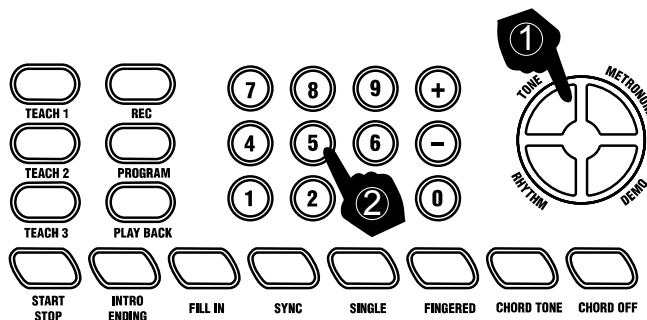
To change the CHORD, BASS CHORD or PERCUSSION volume, touch the MIXER button first to select the desired volume to be adjusted and then press the MIXER VOL [+ / -] buttons to change the volume.



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 keypad. Refer to Appendix III for a full list of the available tones and codes.



Effect & Control

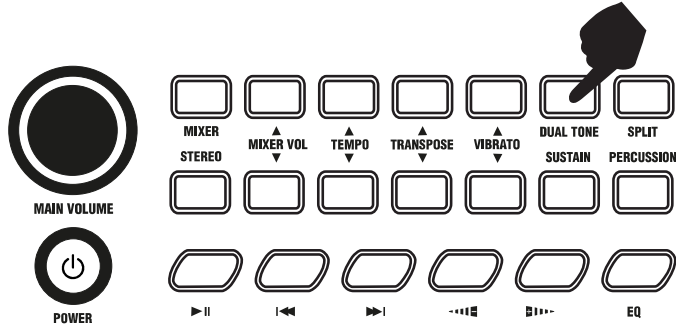
Pitch Slider:

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.



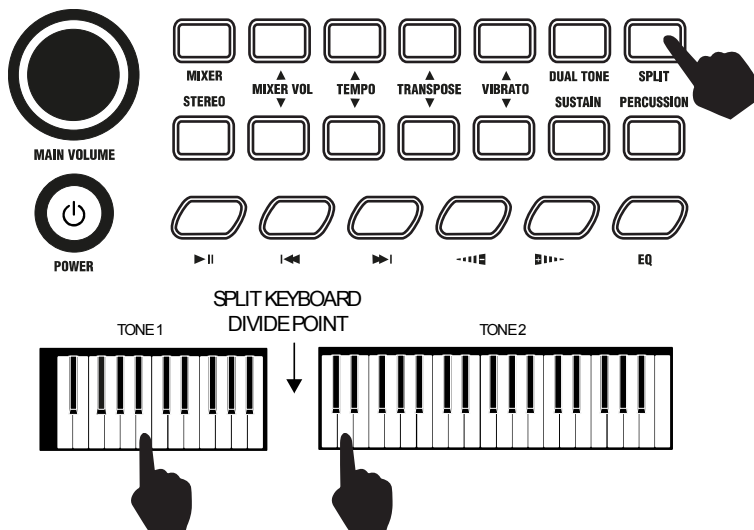
Dual Tone Keyboard:

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.



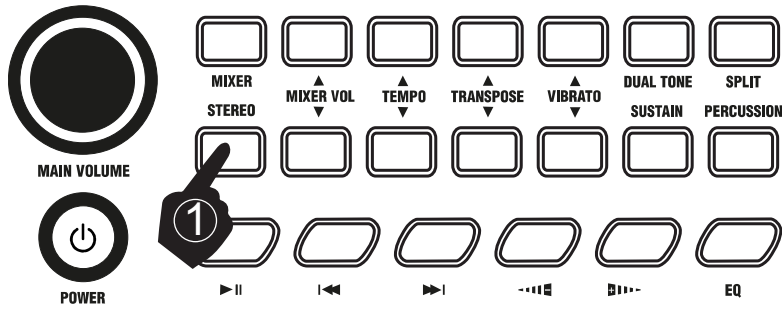
Split Keyboard:

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.



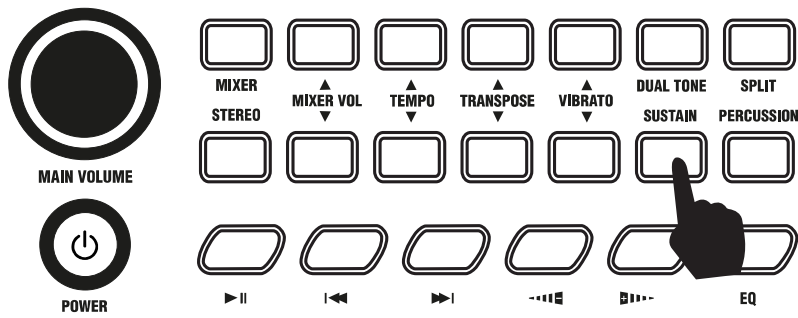
Sound Output Mode:

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



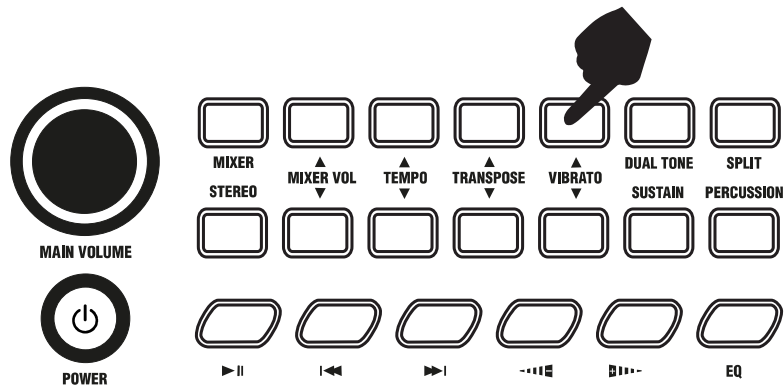
Sustain:

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.



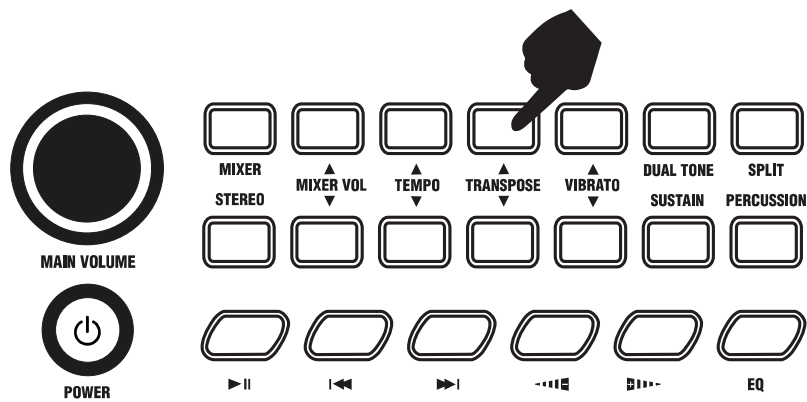
Vibrato:

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.



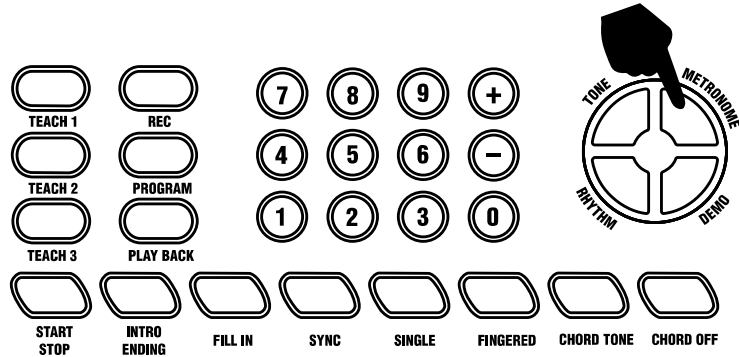
Transpose:

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.



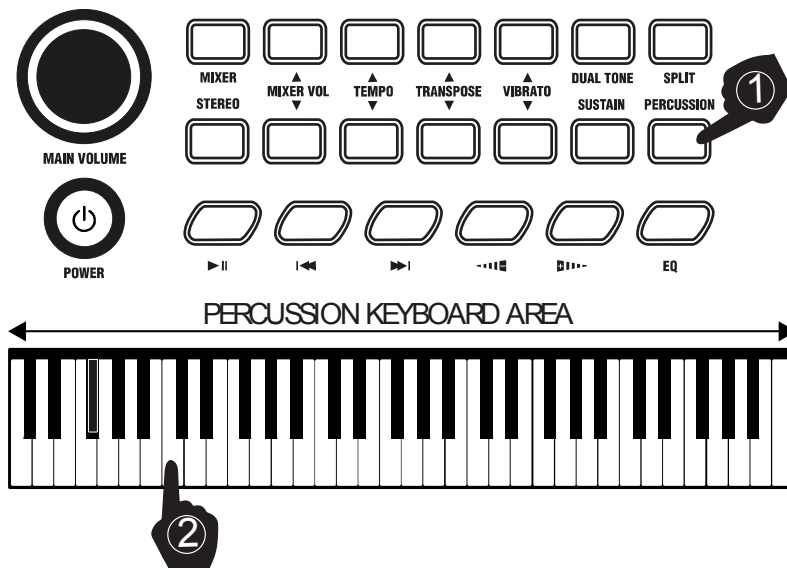
Metronome:

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:

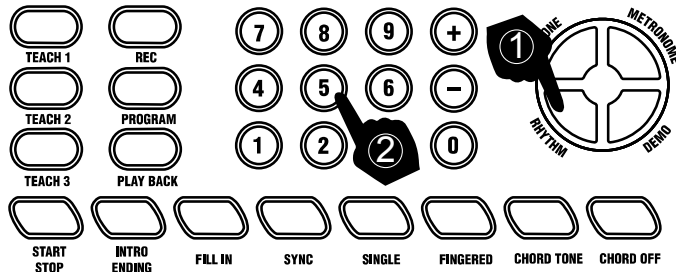
When the [PERCUSSION] button is touched all the keyboard's keys can be used to play percussion sounds. Touch the [PERCUSSION] button again to exit Percussion mode. Refer to Appendix I. for a table of the 61 different percussion sounds available



Rhythm

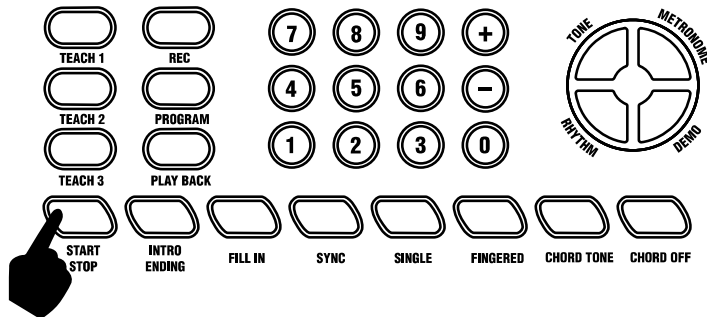
Selecting the rhythm:

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.



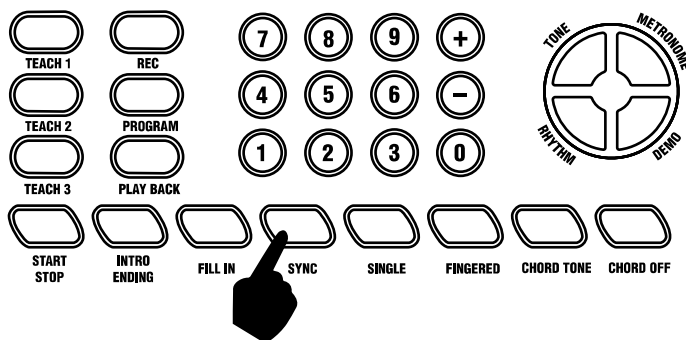
Start / Stop:

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



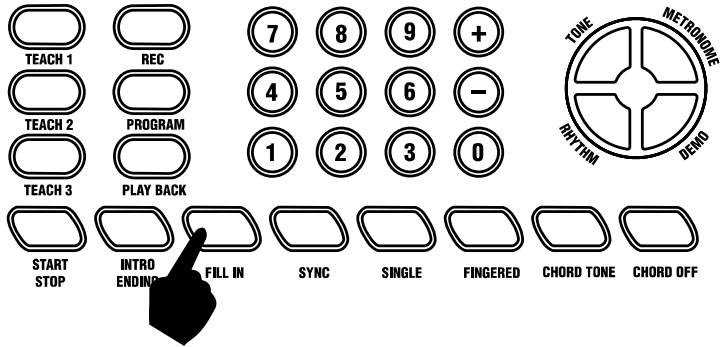
Sync:

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.



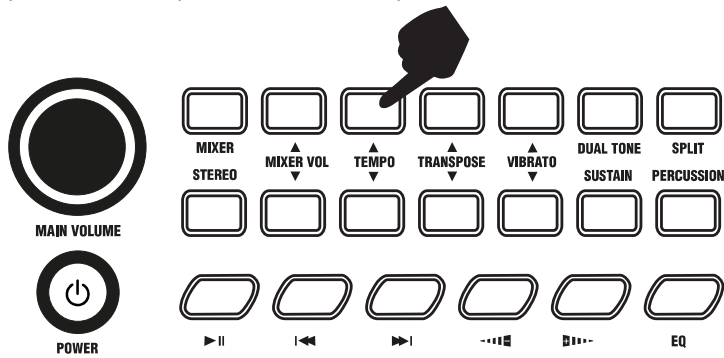
Fill in:

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:

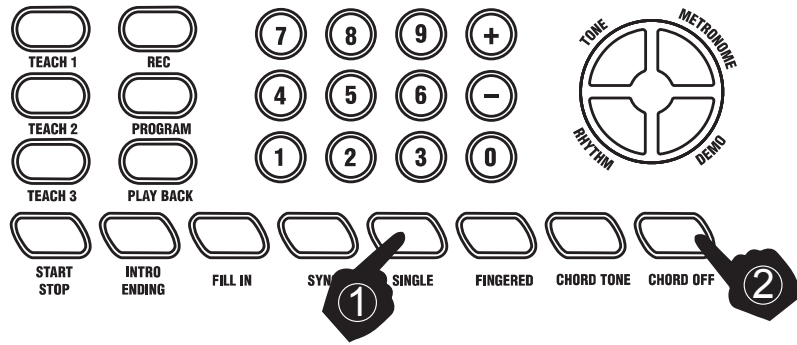
Touch the [TEMPO] buttons to adjust the tempo of the rhythm, metronome, or demo songs up or down. Press and hold to adjust the tempo quickly. The adjustment range is 30-240 bpm. Pressing both the [TEMPO] buttons at the same time will revert the tempo to the default tempo for the rhythm selected. At power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



Chord Accompaniment

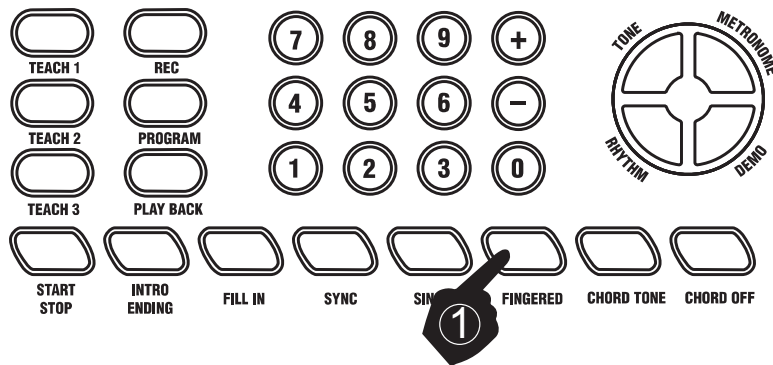
Single Finger Chords:

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.



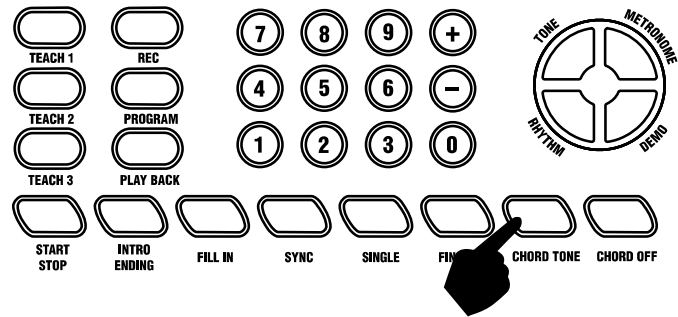
Multi Finger Chords:

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.



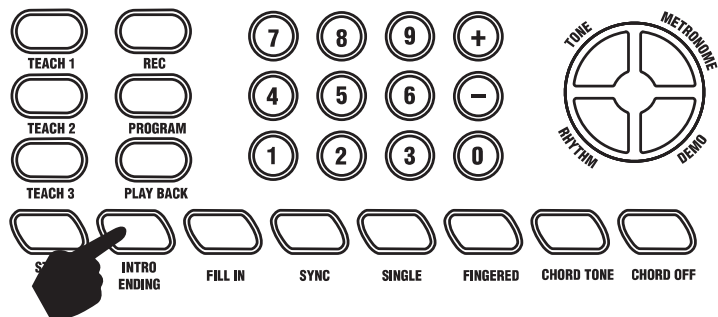
Chord Tones:

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.



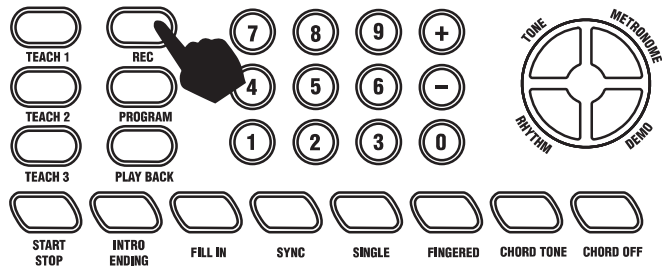
Intro / Ending:

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.

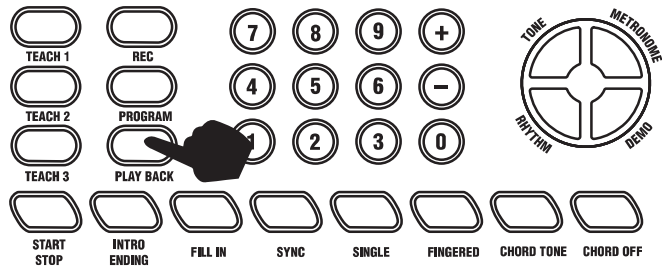


Recording Function

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.

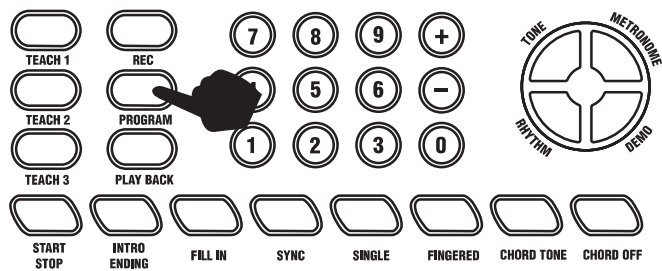


Touch the [PLAY BACK] button to play back the recorded notes.
Touch the [REC] button again to exit recording mode.



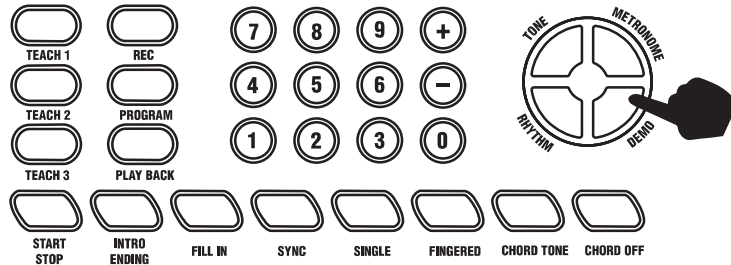
Rhythm Programming

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.



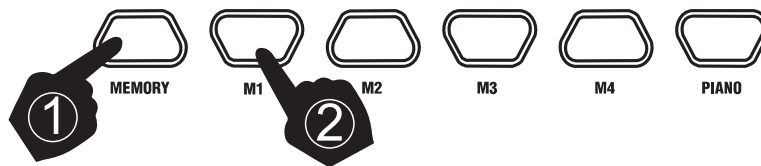
Demo Songs

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.



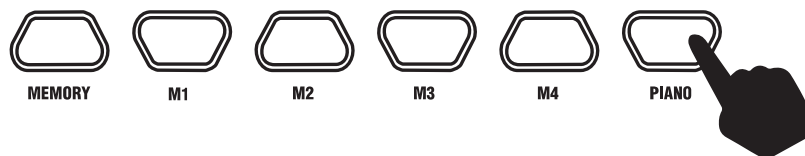
Setting Memories M1 to M4

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

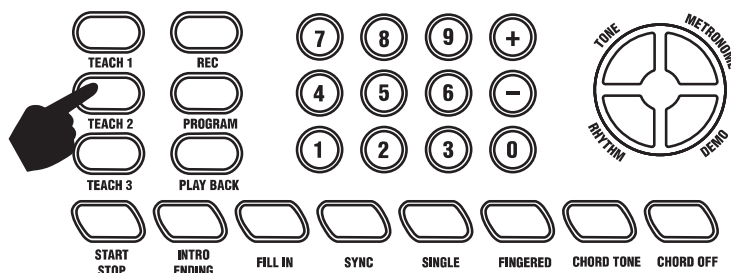
Press the [PIANO] key as a shortcut to quickly revert back to piano key sounds



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	Accordion	121	Breath Noise	221	Rhythm Soprano Sax
022	Harmonica	122	Seashore	222	Synth Soprano Sax
023	Tango Accordion	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 (Calioppe 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

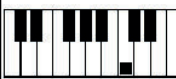

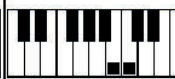
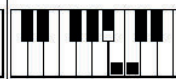
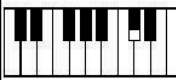
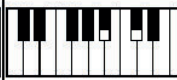
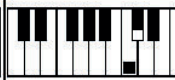
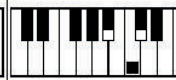
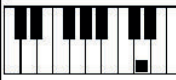
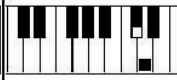
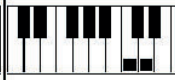
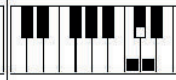
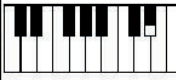
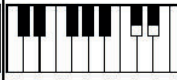
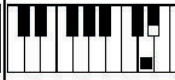
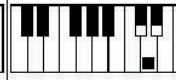
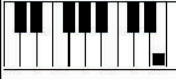
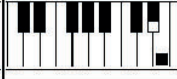
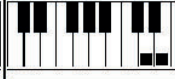
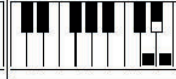







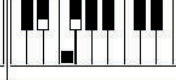

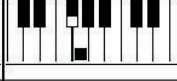






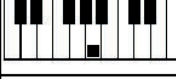

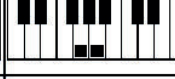
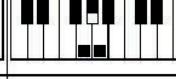

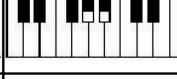
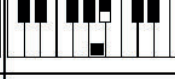
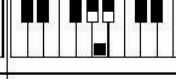

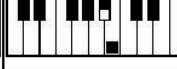


No.	Name of Song	No.	Name of Song
00	Canon	20	Butterfly love
01	Above the moon	21	Rhythm of the rain
02	Chinese Gangnam style	22	Happy birthday to you
03	Where is the time	23	Twinkle twinkle little star
04	Little apple	24	Happiness at sunrise
05	Bright spring day	25	If you're happy and you know it
06	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

	M	m	7	m7
C				
D ^b				
D				
E ^b				
E				
F				
F [#]				
G				
G [#]				
A				
B ^b				
B				

Fingered Chords

Chord Type Root	M	m	7	m7	dim7	M7	m7 ⁻⁵	dim
C								
C [♯] /(D [♭])								
D								
(D [♯])/E [♭]								
E								
F								
F [♯] /(G [♭])								
G								
(G [♯])/A [♭]								
A								
(A [♯])/B [♭]								
B								

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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