GK 310

Owner's manual



Owner's manual



Care of your keyboard

Your keyboard will give you years of playing pleasure if you follow the simple rules outlined below:

- ◆ Do not expose the keyboard to high temperature, direct sunlight and excessively dusty places.
- Avoid physical shocks caused by dropping, bumping, or placing heavy objects on the keyboard.
- Never use cleaners such as alcohol or solvents to clean the keyboard.
- ◆ Always turn the power off when making any connections.

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Introduction

Thank you for purchasing the new GEM **GK310** electronic keyboard.

The **GK310** offers the following features:

- 61 note keyboard with Touch Response;
- 132 PCM voices + 1 keyboard percussion kit;
- 96 Styles (automatic accompaniments) with 2 Variations;
- · Two chord recognition modes for the Styles: Fingered and One Finger;
- 384 Single Touch Play settings;
- 50 Demo songs with the play along feature;
- On-board Sequencer with Record, Play/Stop and Melody Off functions;
- · MIDI compatibility.

Power supply

This keyboard can be powered by current from a standard household wall outlet (using the specified AC adaptor) or by batteries.

Using the AC adaptor

Always ensure that the istrument is turned OFF when connecting or disconnecting the power adaptor. Applying power while the power switch in depressed may damage the components inside the unit.

Do not use adapters other than the one specified for this keyboard. The technical specifications of the adapter must be: 9~12V DC output, 1800MA, centre positive type.

Using batteries

Always make sure you turn the keyboard off before inserting new batteries or replacing old ones.

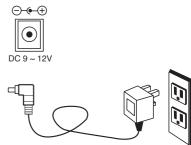
To insert the batteries

- Carfully turn the instrument upside-down and remove the battery compartment cover.
- Insert six D size (SUM-1 or R-20) batteries into the battery compartment, being careful to follow the polarity markings on the cabinet.
- 3. Replace the compartment cover, making sure that it locks firmly in place, then turn the instrument the right way up.

Important battery information

Any of the following symptoms indicate low battery power. Replace the batteries as soon as possible whenever any of the following occurs.

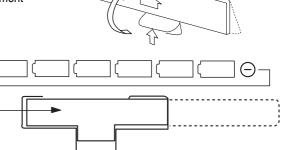
- A dim and difficult-to-read LCD display.
- Abnormally low speaker/headphone volume.
- Distortion of the sound output.
- · Sudden power failure when playing at high volume.
- · Abnormal playing of the rhythms or demo songs.
- · Dimming of the display when playing at high volume.



CAUTIONS:

Use only the specified AC adaptor. Use of another type of adaptor creates the danger of fire and electric shock.

For safety sake, be sure to unplug the AC adaptor from the wall outlet whenever leaving the keyboard unattended for a long time.



CAUTIONS:

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Improper handling of the batteries can cause them to burst and leak, creating the danger of personal injury or damage of the keyboard. Be sure to take the following important precautions when using batteries:

- Never use batteries of different types.
- Never mix old batteries with new ones.
- Replace the batteries as soon as possible after any sign of discharge.
- Always make sure to remove the batteries from the keyboard's battery compartment when the keyboard is not expected to be used for a long period of time.

Connections

The Phones jack

If you prefer to play with headphones for high quality personal monitoring, plug a standard stereo headphone set into the rear panel PHONES jack. The internal speakers are automatically disconnected.

Use the VOLUME slider to adjust the headphone volume.

The Damper jack

An optional footswitch can be plugged into the **DAMPER** jack for sustain control. The footswitch operates like the damper pedal of an acoustic piano. Press for sustain, release for normal sound.

The Aux. Out jack

Connect the rear-panel **AUX. OUT** jack to amplified speakers, amplifiers or domestic hi-fi units for external amplification. Use audio cables with standard 1/4" jacks and plug the other end into the **LINE IN** or **AUX. IN** of the external amp. system. To use the external amp. system only and exclude the internal speakers of the **GK310**, plug a headphones jack into the PHONES jack.

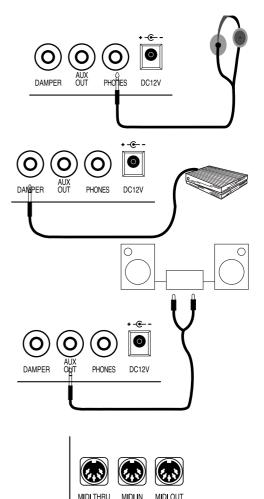
The MIDI IN, MIDI OUT and MIDI THRU ports

The **GK310** is fitted with a standard MIDI interface consisting of In, Out and Thru ports for MIDI connections.

The MIDI IN port receives MIDI data from an external MIDI device.

The MIDI OUT port transmits MIDI data to an external MIDI device.

The **MIDI THRU** port retransmits the same MIDI data received at the MIDI IN port to another external MIDI device.



Listen to the Demo Songs

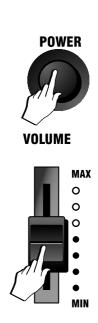
You can listen to the automatic playback of your **GK310** to get an idea of what the instrument is capable of doing. You can also play along with the demos in playback.

Turn the power ON by pressing the [POWER] switch.
 After a short period, the display will appear showing the NORMAL playing mode with a piano sound (Piano1) ready to play across the full keyboard.



2. Set the volume of the instrument as a whole by using the **[VOLUME]** slider. A comfortable level is around the halfway mark.

This control increases or decreases the volume of the internal speakers, the headphones and the Aux. Out jack.



3. Press the [DEMO ALL] button to start a chained Demonstration. The display shows the first Demo Song number:





Playback starts automatically from the first Demo song and continues non stop until you either change demo or stop the playback.

4. Press the [DEMO ALL] button again to stop the playback.

Select a single Demo Song

- 1. Select **SONG** mode by pressing the **[VOICE/STYLE/SONG]** button as many times as necessary until the right display arrow points to the **SONG** function. The number of the first demo song available is shown as above.
- 2. Use the numeric keypad to input the two-digit number of a demo song. For example, to select Song 35, LONG, LONG AGO, input 3 then 5.



For a list of Demo Song names, refer to the Demo Songs table in Appendix C.

3. Press the [START/STOP] button to start the demo song.

You can also use the [DEMO ALL] button to start the playback.

If you use the [START/STOP] button to start the Song, it will play as an endless loop, restarting after it reaches the end. [DEMO ALL] starts the chained Demo Songs from the selected song.

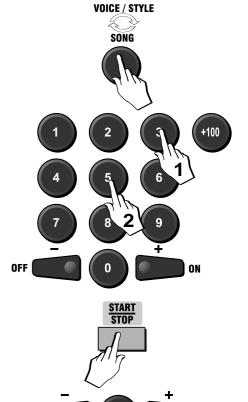
During the demo playback, you can press the [+/ON] button to step to the next demo song or the [-/OFF] button to step back to the previous one.

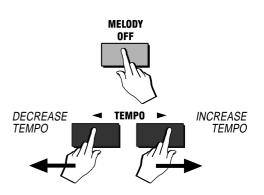
While the demo plays, all the control panel buttons, except [DEMO ALL], [MELODY OFF] and the [+ON]/[-OFF] buttons, are temporarily disabled.

Play along with the Demo Song

- 1. While the demo song is playing, press the [MELODY OFF] button to turn off the melody and start to play on the keyboard.
 - This button is useful if you want to play the melody yourself, or if a singer wants to sing along with the backing only.
- 2. Use the [TEMPO] buttons to adjust the Tempo of the selected demo song.
- 3. Press the [MELODY OFF] button again to restore the melody of the demo song.
- 4. Press the [START/STOP] or [DEMO ALL] button to stop the playback.







Basic Operation

This section explains all the basic operations that you can carry out when the instrument is in NORMAL mode. If you are uncertain how to return the instrument to NORMAL mode, press the **[MODE]** button as many times as necessary until the left display arrowhead points to NORMAL.

Selecting & playing Voices

The **GK310** has 132 PCM voices and 1 percussion kit that you can select and play on the keyboard.

After turning on, the **GK310** sets to NORMAL/VOICE mode with the display showing a black arrow pointing to the NORMAL mode on the left and the VOICE mode on the right.

In VOICE mode, you can select and play voices.

Play a single Voice

If you play on the keyboard after turning the instrument on, you will hear a piano sound (in this example, Voice 01, "Piano 1") play across the entire keyboard.

Select a Voice with the [-/OFF] and [+/ON] buttons

In VOICE mode, the **[-/OFF]** and **[+/ON]** buttons of the numeric keypad allow you to step through the individual Voices one by one. The **[+/ON]** button selects in increasing numerical order while the **[-/OFF]** button selects in reverse order.

Holding either button down scrolls rapidly forwards or backwards through all the voices. The selected voice number is shown in the bottom right hand corner of the display.

Select a Voice with the numeric keypad

Using the numeric keypad is the quickest way to go directly to the Voice you need, but first, you must know the exact number of the voice. The name and corresponding number of all the Voices in memory are silkscreened above the display on the right. You'll see that they start from number 01 through to number 132.

Two-digit voice numbers are selected by entering the two digits in sequence.

For example, to select Voice number 17 (Organ 1), press button [1] then button [7]. Three digit voice numbers are entered by first pressing the [+100] button, then pressing the remaining two digits in sequence.

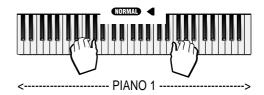
Keyboard percussion

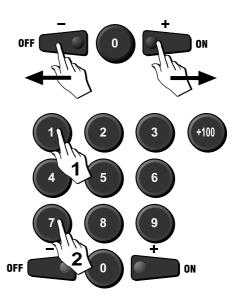
To play drums and percussive instruments on the keyboard, press the **[PERCUS-SION]** button.



In PERCUSSION mode, each note of the keyboard plays a different drum instrument. You can see what kind of percussive instrument each note plays by referring to the silkscreened markings on the rail under the keyboard.

Press the **[PERCUSSION]** button again to deactivate the function and return to NORMAL playing.









Dual voice (play two layered voices)

To play the DUAL effect, (with two layered sounds), press the **[DUAL]** button. The word "**VOICE 2**" appears in the display as well as the voice number assigned to the layered section.



If you play on the keyboard, you will hear two sounds for every note played. In our example, you will hear the Piano voice (01) together with Slow Strings (50).

In DUAL mode, whatever voice selection you make will always correspond to the second voice.

To return to NORMAL single voice play, press the [DUAL] button again.

Split keyboard

To play on a split keyboard with one or two voices on the right hand side (UPPER keyboard) and one voice on the left (LOWER keyboard), press the **[MODE]** button as many times as necessary until the left display arrowhead points to the SPLIT function. The word "**LOWER**" appears in the display as well as the voice number assigned to the Lower section:



The keyboard splits into a Lower section and an Upper section. If you play on the keyboard, you will hear one sound on the right hand side of the keyboard and another sound on the left. Our example shows Strings (49) on the left and Piano 1 (01) on the right.

To change the voice of the Lower keyboard while you are still in SPLIT mode, simply enter two digits on the numeric keypad, or use the [+/ON] and [-/OFF] buttons.

The note that divides the two keyboard sections is called the SPLIT POINT and the factory setting corresponds to note F#3. The Lower keyboard extension starts from the lowest note on the left, C2, up to note F#3. The Upper keyboard extension covers the range G3 - C7.

It is also possible to modify the Split point and memorize the new setting to a Performance. See the section entitled "Changing the accompaniment Split Point" on page 13.

Play in Split mode with a Dual effect on the Upper keyboard

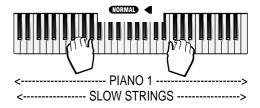
If you want to play with two layered sounds on the Upper keyboard and one on the Lower, simply press the **[DUAL]** button while you are in SPLIT mode.

If you want to change the voices on the Upper keyboard, you must cancel the SPLIT mode and return to NORMAL mode, then proceed as already described on the previous pages for Single and Dual voice selection.

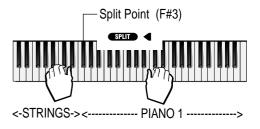
To cancel Split mode

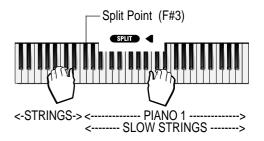
To escape Split mode and return to a full keyboard, press the **[MODE]** button once to select NORMAL mode.











The Performances

So far, you have learnt how to select single and combined Voices in Normal, Dual and Split modes using several panel interventions. If, every time you want to create a preferred sound combination, you have to take several steps to arrive at your goal, you would ask yourself if there wasn't a quicker way of selecting what you want. The answer lies in the PERFORMANCES which offer a quick and simple method of recalling a panel situation at the touch of a single button.

A PERFORMANCE is simply a combination of voices and other panel settings (Voices, Track Volumes, Style, Variation, Chord Recognition mode, Split Point, etc.). The **GK310** contains six Performances which recall factory-set panel configurations, but you can memorize your own combinations using the STORE PERFORMANCE feature.

Selecting the Performances

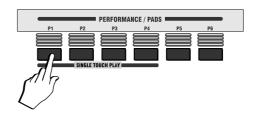
1. Take a quick look at the display, then press one of PERFORMANCE buttons (P1 - P6); for example, press the [P1] button.

The display shows the situation recalled by the Performance.



If you were playing in NORMAL mode, after selecting the Performance you will find that the keyboard will be split and the mode will have changed to either Fingered or One Finger, to enable the Styles. You will also see a change of Style number. Further ahead in the manual, you will learn how the Performances can be used for quick panel changes, including the Styles (see "The Styles" on page 8).

2. Repeat the selections for all the other Performance buttons, observe the changes in the display and play on the keyboard to listen to the change of voices.



NOTE: The Performance/Pads buttons can also be set to operate as DRUM PADS. See the PERCUSSION function on page 16.

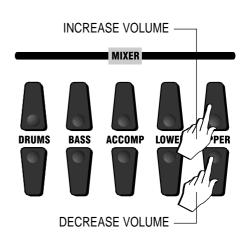
Balancing the Lower and Upper sections

If you are playing in Normal mode with Voices on a Split keyboard, you may at some stage want to adjust the volume of one section with respect to the other. Using the **[MIXER]** Volume controls, you will be able to balance your Upper and Lower voices to the levels required very easily.

The MIXER consists of 5 twin buttons organized in two rows. The top row of buttons are **[INCREASE VOLUME]** controls while the bottom row are **[DECREASE VOLUME]** controls. When you are playing with voices only, voice balancing tasks require the use of the **[UPPER]** and **[LOWER]** controls only. The other three controls, (Drums, Bass and Accomp), are explained under Styles on page 11.

To increase the volume of, the Upper section, for example, press the top **[INCREASE VOLUME]** button and hold it down until you reach the Volume required. The display shows the Volume level of the Upper section.





To decrease the volume, press the bottom [DECREASE VOLUME] control.

If the Upper section is playing with the DUAL effect, the **[UPPER MIXER]** controls adjust both voices at the same time.

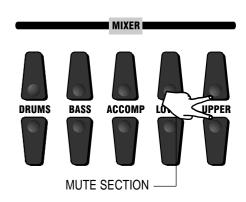
Muting the sections

If you want to exclude a section (mute, or turn off), you can use the MIXER control buttons.

Simply press both [INCREASE VOLUME] and [DECREASE VOLUME] buttons at the same time to mute the section required. For example, if you press both the top and bottom buttons of the [UPPER MIXER], the display will show UPPER OFF.



To restore the volume to normal, press both the [INCREASE] and [DECREASE VOLUME] buttons again at the same time.



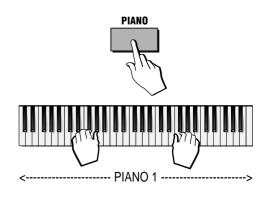
Instant Piano Voice

Regardless of the current situation, you can recall the Piano Voice instantly by pressing the **[PIANO]** button.



Pressing this button returns the keyboard to NORMAL single voice play with the PIANO voice active across the entire keyboard.

Press the **[PIANO]** button again to return to the previously selected situation.



The [PIANO] button always returns you to a single piano voice playing across the full keyboard. You may use the PIANO button as a "return to start" button whenever you wish to have only one sound active across all 61 keys.

Sustain effect

To add the Sustain effect to the overall sound, press the **[SUSTAIN]** button. This is useful if you haven't yet purchased the optional footswitch which plugs into the rearpanel DAMPER jack.

The display shows the SUSTAIN ON message for a short period, then returns to the previous display:



Press the [SUSTAIN] button again to turn off the effect.



Add Pitch Bend to your playing

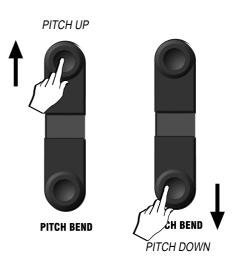
While you play, you can add Pitch Bend to your keyboard sounds by using the [PITCH BEND] buttons located to the left of the control panel. You can obtain a Pitch Bend excursion of 2 semitones above or below normal pitch with these controls.

Hold down the top [PITCH BEND] button to bend the notes up.

Hold down the bottom [PITCH BEND] button to bend the notes down.

The pitch returns to normal when you release the button.

Pitch Bend is a "glide" (or glissato) effect which simulates the effect heard in certain instruments (trombone, guitar, violin, etc.).



Styles - Auto-Accompaniment

What are the Styles?

Styles are a collection of musical patterns representing many types of music, ranging from rock and pop to traditional and ethnic music. The **GK310** contains 96 different auto-accompaniment Styles that can be used to provide fully-orchestrated arrangements. The sophisticated Auto Accompaniment system can provide automated bass and chord backing that is perfectly matched to the selected accompaniment Style. The Styles a formed by 5 sections, or tracks, that generate the automatic arrangements: Drums, Bass and 3 Accomp, and an additional two tracks, Upper and Lower, for the keyboard sounds. The automatic arrangements are triggered by playing chords (fingered or one-finger) on the lower part of the keyboard below the split point.

Selecting Style Mode

To select the Styles, you must set the **GK310** to STYLE mode.

1. Press the [VOICE/STYLE/SONG] button as many times as necessary until the right display arrowhead points to the STYLE function.



To enable the Style auto-accompaniments, you must select one of the two chord recognition modes (ONE FINGER or FINGERED).

2. Press the [SINGLE TOUCH PLAY] button.

Pressing this button activates the KEY START function automatically and enables the Style auto-accompaniments by recalling one of the two chord recognition modes (ONE FINGER or FINGERED). The left display arrowhead points to FINGERED or ONE FINGER. The display example below shows FINGERED selected.



The FINGERED and ONE FINGER chord recognition modes are explained in detail further ahead.





Note: When SINGLE TOUCH PLAY is on, the sounds memorised in the Style Performance are assigned to all the tracks. Selecting a Style changes the sounds of the accompaniment sections (Drums, Bass, Accomp) as well as the keyboard sections (Upper 1, Upper 2, Lower). When SINGLE TOUCH PLAY is off, selecting a Style changes the sounds of the accompaniment sections only.

Selecting the Styles using the [-/OFF] and [+/ON] buttons

In STYLE mode, the [-/OFF] and [+/ON] buttons of the numeric keypad step through the individual Styles one by one.

- 3. Press the [+/ON] button to select the Styles in increasing numerical order.
- Press the [-/OFF] button to select the Styles in reverse order.
 Holding the button down scrolls rapidly forwards or backwards through all the Styles. The selected Style number is shown at the center of the display.

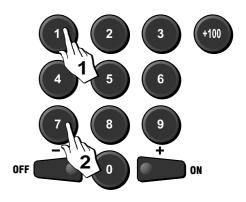
OFF ON ON

Selecting the Styles using the numeric keypad

Using the numeric keypad is the quickest way to go directly to the Style you need, but first, you must know the exact number of the Style. The name and corresponding number of all the Styles in memory are silkscreened above the display on the left. You'll see that they are organized in Groups (8 BEAT, 16 BEAT, ROCK, etc.) and numbered from 01 through to 96. Select the Style you want by entering the corresponding two digits in sequence.

5. For example, to select Style number 17 (Shuffle 2), press button [1] then [7].





Selecting the Styles by recalling the Performances

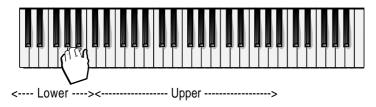
Another quick way of selecting the Styles is by selecting the Performances, but this means that you have to remember which Style is memorized in the Performances. You can also memorize your preferred Styles to these buttons with Store Performance. This argument is explained in detail further ahead on page 12.

Playing the Styles

6. Press the [START/STOP] button.

You'll hear the Drums accompaniment track start to play.

7. Play a note or chord on the left part of the keyboard below note F#3 to trigger the automatic accompaniments.



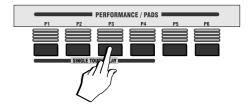
An automatic accompaniment will start to play, generated by the Style sections: Drums, Bass and Accomp.

As you change chord from Major to minor or seventh, etc, you will note a change of style pattern. Each time you change key, for example, from C to F, the Style pattern will transpose automatically.

The symbols of the recognized chords are displayed in the left hand corner. For example, if you play the chord of C, the display will show the large letter "C". If you play a chord not recognized by the instrument's chord recognition system, the current pattern will rest unchanged until you play a recognized chord.

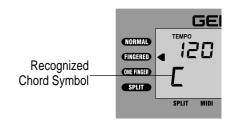
To play your Style using the automatic functions (Var, Key Start, Intro, Fill, Ending), see the section entitled "Using the Style Auto functions" further ahead.

8. Press the [START/STOP] button to stop the Style.





NOTE: If you hear a Drum pattern only without automatic accompaniment when you play a note or chord on the Lower keyboard, check that you are not in NOR-MAL or SPLIT mode. The arrowhead must point to either FINGERED or ONE FINGER for the Style accompaniment to play.



Changing the Style Tempo

Every time you select a Style, you also recall a memorized playing speed, (TEMPO), shown in the top left hand corner of the display. You can speed up or slow down the tempo, before or after starting the Style, by pressing the [TEMPO] buttons.

Press the [TEMPO▶] button to increase the Tempo value, or the [TEMPO◄] button to decrease the value.

Holding down either button changes the Tempo value at high speed continually until released.

Restoring the memorized Tempo

To restore the Style's memorized Tempo, press both Tempo buttons at the same time.

About the Chord Recognition Modes

The **GK310** allows you to choose between two different Chord recognition modes: FINGERED and ONE FINGER. The chords that you play (Fingered or One Finger type) must be played on the lower part of the keyboard dedicated to the Auto Bass Chords (from note C2 up to and including note F#3).

FINGERED mode requires that you press at least 3 notes for a chord to be recognized.

ONE FINGER mode requires that you press only one note for a Major chord to be recognized. Other chords require more notes.

- 1. If a Chord recognition mode isn't selected, press the [MODE] button as many times as necessary until the left display arrowhead point to either FINGERED or ONE FINGER.
- 2. Press the [START/STOP] button to start the current Style.
- 3. If you select FINGERED, play a chord of at least 3 notes on the Auto Bass Chord section of the keyboard to trigger the auto-accompaniments.

If you select ONE FINGER, play one note on the Auto Bass Chord section of the keyboard to trigger the Major chord of the auto-accompaniments Other chords using the "One finger" method involves the use of two or three fingers.

In the Appendix you'll find useful reference charts for Fingered and One Finger chords:

FINGERED (Appendix A);

ONE FINGER (Appendix B).

Using the Style Auto functions

The Styles provide a wide variety of automatic functions that make the **GK310** very easy to play.

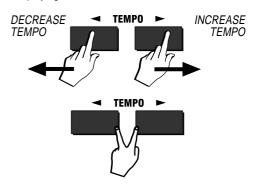
Select the Fill In and change Style Variation

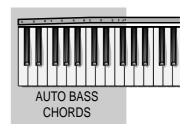
Each Style has two accompaniment patterns, NORMAL and VARIATION, which you can select at any time before or after starting to play the Styles by pressing the corresponding button. The stutus of the LED on the FILL 1 or FILL 2 buttons tells you which Style pattern is active for play, Normal or Variation.

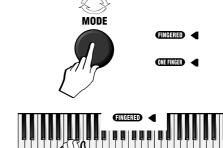
When you press the [FILL 1►/NORMAL] or the [FILL 2►/VAR] button during playback, the current pattern will be interrupted by an appropriate Fill In, or "break", then proceed with the same pattern or variation, depending on which button you press.

The LED of the button pressed will turn on while the LED of the other button will turn off.

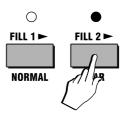
Note: If you change Style while the rhythms are playing, the current Tempo rests unchanged. The memorized Style Tempo is recalled only when the Style is not playing.











Start the Style accompaniments with Key Start

The KEY START function allows you to synchronize the start of your Style with a note or chord pressed on the keyboard without using the Start/Stop button. When you press the [KEY START] button, the display shows 4 flashing black dots after the word TEMPO to indicate the synchro start standby. Now, if you play a note or chord on the lower part of the keyboard, the Style pattern stgarts automatically.

Start the Style with an Intro pattern

Before starting the Style, press the **[INTRO/ENDING]** button to place the keyboard on introduction start standby. The LED of the current Style pattern (Fill1/Normal or Fill2/Var) starts to flash to indicate that the INTRO has been preset. Now press the **[START/STOP]** button and play a note or chord on the lower part of the keyboard. The Style starts with an introductory pattern then proceeds with the selected auto-accompaniment (Normal or Variation).

Stop the Style with an Ending phrase

You can stop your Style automatically with a well-executed Ending pattern without using the Start/Stop button. While the Style is playing, simply press the **[INTRO/ENDING]** button. The Style auto-accompaniment will stop automatically with an Ending phrase.

Balancing the Style accompaniment tracks with the Mixer

When playing with Styles, you can adjust the volume of one section with respect to the others using the **[MIXER]** Volume controls. You will be able to balance all the Style sections; Drums, Bass, Accomp as well as the Lower and Upper keyboard sections. How the MIXER controls are organized is explained on page 6.

In Style mode, to increase the volume of the Bass track, for example, press the top **[INCREASE VOLUME]** button and hold it down until you reach the Volume required. The display shows the Volume level of the section being controlled, in this case the Bass section.



To decrease the volume, press the bottom [DECREASE VOLUME] control.

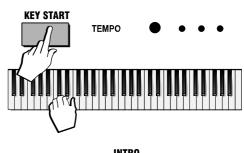
Muting the Style tracks

If you want to exclude a section (mute, or turn off), simply press both [INCREASE VOLUME] and [DECREASE VOLUME] buttons at the same time to mute the section required.

For example, to play your Upper and Lower voices with the BASS accompaniment only, mute the DRUMS and ACCOMP tracks. The display will show OFF for the respective section. For example, muting the DRUMS shows the following display:

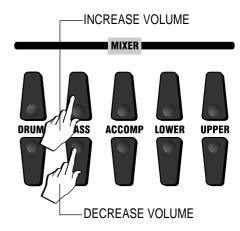


To restore the volume to normal, press both the [INCREASE] and [DECREASE VOLUME] buttons again at the same time.

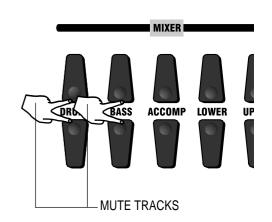








Note: The volumes of the three Accompaniment tracks are contolled simultaneously by the **[ACCOMP]** Volume buttons.



Using the Single Touch Play settings in Style mode

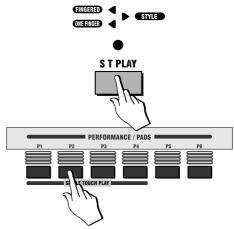
When you play the Styles with the [SINGLE TOUCH PLAY] button on, each Style you select recalls a panel configuration (voices and volume settings) for the accompaniment sections (Drums, Bass, Accomp) as well as for the Upper and Lower sections. This means that for the 96 Styles, you have 96 factory set voice configurations.

The SINGLE TOUCH PLAY settings increases this number by four, giving you 96 x 4 = 384 different panel configurations for the 96 Styles. The SINGLE TOUCH PLAY settings are a quick and easy way of reconfiguring the voices of the UPPER and LOWER sections of a Style by pressing only one button while you are playing, without having to stop to change voices manually. The S.T. PLAY settings are recalled using the first four buttons of the PERFORMANCE/PADS section [P1 - P4].

Note: The S.T. PLAY settings change the configuration of the UPPER and LOWER sections only.

Selecting the S.T. Play settings

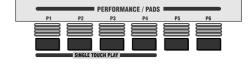
- 1. Select a Style using the methods already described. Make sure that one of the two chord recognition modes have been selected.
- 2. Press the [S.T. PLAY] button.
- 3. Start the Style using the methods already described (Key Start, Intro, etc.).
- 4. While you are playing the Style, press one of the SINGLE TOUCH PLAY buttons ([P1], [P2], [P3] or [P4]).
 - You'll hear a change of voice configuration and the Style Variation may also
- 5. Repeat the selection procedure of the SINGLE TOUCH PLAY settings after changing other Styles.
 - On the next page are instructions on how to store your preferred settings to the 6 PERFORMANCES.



Note: When the [S.T. PLAY] button is on (LED on), the PERFORMANCE buttons [P5] and [P6] are disabled for Performance selection.

The Performance buttons and Store Performance

You have seen that the Single Touch Play settings recall factory-set configurations for the current Style when the [S.T. PLAY] button is on. You have also seen that, when S.T.PLAY of off (LED off) the 6 buttons of the PERFORMANCE/PADS section recall factory-set panel configurations, including Voices, Volumes, Style, Variation, Split Point, etc..



How to memorize e Performance

If you don't want to use the factory Performance settings, you can memorize your own panel configurations to the PERFORMANCE buttons. This very useful feature allows you to store up to 6 preferred panel configurations, including Style, Variation and other selections, which you can then recall at the touch of a single button.

To memorize a Performance, the first thing to do is to modify one of the factory set situations. For example, if you select STYLE number 45 (Swing), the voices recalled for the Upper and Lower sections will be Organ 2 and Strings respectively. You only need to change one aspect of any factory setting to be able to save the new setting as a new Performance. In our example, let's change the voice assigned to the Voice 1 section.

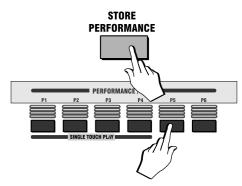
- 1. Select Style n. 45 (Swing) and turn [S.T.PLAY] off (if on).
- 2. If necessary, select VOICE mode by pressing the [VOICE/STYLE/SONG] but-
- 3. Select a different Voice by using either the [+/ON] and [-/OFF] buttons, or the numeric keypad, entering the number of the voice required directly.

 Hold down the [STORE PERFORMANCE] button, then simultaneously press one of the PERFORMANCE/PADS buttons [P1] - [P6]. For example, if you press [P5]:



Whatever information was previously stored in the selected button will be erased by the new data.

 At this point, you can check if your new Performance has been stored. Changing the panel situation (for example, select a Voice or Style), thne press the PERFORMANCE button that you used to store your Performance in point 4 above.



NOTE: All the data memorized to the PERFORMANCE buttons remains intact while the instrument is being used. The instant you turn your GK310 off, you will lose all memorized data, including any other settings that you may have made in other areas of the keyboard (Split Point, Keyboard Transpose, etc.). All data is restored to the factory-set status.

SELECT

For MIDI purposes, the notes of a keyboard are expressed as numbers ranging from 00 - 127 (or 01-128). This range 128 of numbers corresponds to the note

MIDI NOTE NUMBERS

range C-1 to G9.

Changing the accompaniment Split Point

If you want to increase or decrease the keyboard area dedicated to the Style chords, you can change the Split Point setting to any note of the keyboard and memorize the setting to a Performance. The factory setting corresponds to note F#3.

 Press the [SELECT] button as many times as necessary until the black arrowhead at the bottom of the display points to the SPLIT function in the lower row of functions under the screen.

The display will show the current Split Point setting expressed as the MIDI NOTE NUMBER for a short period of time.



2. With the temporary display showing, press a key corresponding to the new Split point, (or use the [+/ON]/[-/OFF] buttons).

The new MIDI NOTE number of the key you press is shown in the display. For example, if you press note C4, the display will show the MIDI NOTE NUMBER 60. After a short period of time, the display returns automatically to the previous situation.



Note: The Split Point can be different for each Performance, and the settings remain memorized until you change them again or until you turn the keyboard off. When you turn on the GK310, the factory set split point (F#3) is restored.

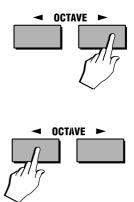
The Octave Transposer

Whether you are playing with Styles or just Voices in single, dual or split mode, you can transpose the current Voice up or down 2 octaves (maximum) in real time. The current Voice is shown in the display by the message VOICE 1, VOICE 2 or LOWER.

 Press the [OCTAVE▶] button once or twice to raise the pitch of the voice one or two octaves. A one octave setting (12 semitones) is displayed as follows:



2. Press the [OCTAVE ◄] button once or twice to lower the pitch of the voice one or two octaves.



Cancelling the Octave Transpose setting

3. To cancel the octave transposition, press both OCTAVE buttons at the same time.

Record & Play - the Sequencer

Your GK310 contains a very simple and easy-to-use sequencer which records whatever you play, and plays back the recorded sequence just as you played it. You can record in Voice mode or Style mode. The following example explains how to record a sequence using a Style.

- 1. Set the instrument for Style play and select a Style.
- 2. Press the [REC] button.

The LED of the [REC] button turns on and the KEY START function is selected automatically.



In "record-pending" status, you can change voices, select Dual mode to add two voices, select Split mode to add a Lower voice, change track volumes, etc., before starting the recording.

If you want to start the recording of the Style with an introduction, press the [INTRO] button to preset the Intro.

- 3. Start to record the notes you play. The Key Start function triggers the Style accompaniment patterns by playing a chord or note on the lower part of the
- 4. While playing, use the Fills, change the Variation, change Voices, select Dual mode, Split mode, etc..
- 5. To stop the recording with an ending, press the **[INTRO/ENDING]** button. You can also stop the recording with the [START/STOP] button. The [REC] button deactivates automatically when the Style stops.

Listen to the playback of a recorded Song

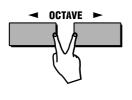
6. Press the [PLAY] button to listen to the playback of your recording.

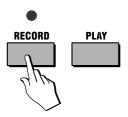


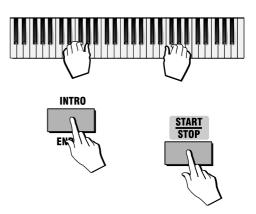
The recorded sequence remains in memory for all the time that the instrument is being used. You can listen to your recorded song at any time simply be pressing the [PLAY] button. If you record another song, the previous one will be overwritten (cancelled).

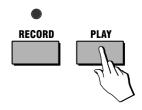
If you turn the instrument off, the recorded sequence will be erased, together with all other memorized data.

If you press [PLAY] when the sequencer doesn't contain recorded notes, the display will show the message "NULL".









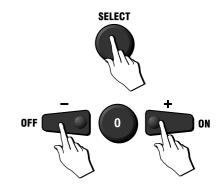
The GK310 General functions

The **GK310** features several functions which affect the keyboard globally. These correspond to the names silkscreened below the display: SPLIT, MIDI, PAN, TUNE, TRANSP, BEAT, PERCUS and they are selected by pressing the **[SELECT]** button as many times as necessary until the black arrow points to the function required. The corresponding parameter shown in the display is modified with the **[+/ON]** and **[-/OFF]** buttons.

General function programming procedure

- Press the [SELECT] button as many times as necessary until the arrowhead at the bottom of the display appears above the function you want to change. The display shows the parameter of the function in abbreviated form together with the corresponding value or ON/OFF status.
- Use the [+/ON] and [-/OFF] buttons to change the parameter value or the on/off status of the function. After a short period of time, the display returns to the previous situation automatically.

The programmed settings remain in memory until changed again, or until the instrument is turned off. When you turn the instrument on again, all the settings of the general functions are restored to the factory status.



The Percussion function - play the Drumpads

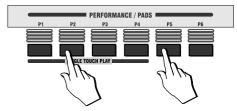
The PERCUSSION function allows you to use the 6 PERFORMANCE/PADS buttons as DRUM PADS. Every time you turn on the **GK310**, the 6 buttons of the PERFORMANCE/PADS section select PERFORMANCES, while the first 4 select SINGLE TOUCH PLAY settings when the **[S.T. PLAY]** button is on.

If you set the PERCUSSION function ON, the PERFORMANCE/PADS buttons will operate as DRUM PADS.



In this mode, each pad pressed plays a percussive sound both in Voice play mode as well as Style mode.

When the DRUM PADS are enabled, the 6 buttons are disabled for Performance recall. If S.T. PLAY is turned on in STYLE mode, the DRUM PADS are temporarily disabled.



Note: When you activate the PERCUSSION function to enable the DRUMPADS, the small PERCUS display pointer indicates that the function is on at all times, until you disable it again, or turn the instrument off.

The Keyboard Transpose function

The TRANSPOSE function allows you to change the pitch of the instrument in semitone steps, up to a maximum setting of 15 semitones above standard pitch, or -12 semitones below. If you select the TRANSPOSE function, the display shows the standard pitch setting (0).



Use the [+/ON]/[-/OFF] buttons to raise or lower the pitch in semitone steps until you reach the value required.

Note: When you program a KEYBOARD TRANS-POSE value above or below standard pitch, the small TRANSP display pointer indicates at all times that the instrument has been transposed, until the transposition is cancelled, or the instrument is turned off.

The Tune function

The TUNE function allows you to fine tune the instrument in steps on one cent at a time. If you select the TUNE function, the display shows the standard pitch setting (0).



Play on the keyboard and use the [+/ON]/[-/OFF] buttons to raise or lower the tuning until you reach the value required.

Note: When you program a KEYBOARD TUNE value above or below standard pitch, the small TUNE display pointer indicates at all times that the instrument has been Tuned, until the tuning is cancelled or the instrument is turned off.

The Pan function

The PAN function allows you to change the stereo pan position of the overall sound, moving the sound at the speakers either to the left or to the right. If you select the PAN function, the display shows the value corresponding to the Pan at the centre (0).



Use the [+/ON] button to pan the overall sound to the right or the [-/OFF] button to pan the sound to the left.

The MIDI function

The MIDI function allows you to set the Transmission/Reception channel for the keyboard as a whole. You can set any MIDI channel from 1 -16. If you select the MIDI function, the display shows the factory-set MIDI channel assignment.



Use the [+/ON] button to increase the channel number value, or the [-/OFF] button to decrease the channel number value.

The Split Point function

The SPLIT POINT function allows you to set a new SPLIT POINT for the AUTO BASS CHORD section of the Styles. If you select the SPLIT function, the display will show the default Split Point setting expressed as the MIDI NOTE NUMBER.



Press a key corresponding to the new Split point that you want, or use the [+/ON] and [-/OFF] buttons to change the value.

Note: When you program a new PAN setting, the small PAN display pointer indicates at all times that a Pan modification has been made, until the fun ction is disabled or the instrument is turned off.

Note: It is not possible to assign separate and independent MIDI channels to the voices and accompaniment sections.

See also the section entitled, "Changing the accompaniment Split Point" on page 11.

The Beat function

The BEAT function allows you to set a time signature (number of beats in a measure) for the Metronome. The factory setting corresponds to 4 beats for every measure. If you select the BEAT function, the display will show the factory setting.



Use the **[+/ON]** button to increase the Beat number, or the **[-/OFF]** button to decrease it. For example, if you want to practice a piece with a time signature of 5/4, assign the number 5 to the BEAT function. The BEAT value has the range, 0 - 9. Setting a value of 0 deactivates the Metronome.

Touch Response

The **[TOUCH]** button is also a General function which affects the keyboard globally. The **GK310** keyboard is *Velocity Sensitive*; in other words, the harder you play on the keys, the louder the sound becomes, as occurs in an acoustic piano.

If you prefer to play on the keyboard without TOUCH RESPONSE, you can disable the function by pressing the **[TOUCH]** button. The display shows the Touch Off setting for a short period of time, then returns to the previous situation.



To restore the Touch Response function to normal, press the **[TOUCH]** button again.

Practice using the Metronome

At any time, you can activate the METRONOME for practicing purposes. As soon as you press the **[METRONOME]** button, the Metronome starts beating time with a 'tick'. If you press the **[METRONOME]** button while you are playing a Style, the auto accompaniment stops and the Metronome takes over as the provider of the beat.



The Metrome is useful to practice keeping time when playing with Styles, or when you have to practice a study piece.

To stop the Metronome tick play, press the **[METRONOME]** button again or **[START/STOP]**.





Specifications

Keys: 61 keys with Touch Response

Voices: 132 PCM voices + 1 percussion keyboard kit

Polyphony: 32 notes

Styles: 96 styles with 2 Variations (Normal and Var) Modes: Normal, One Finger, Fingered, Split, Dual

Styles Control: Start/Stop, Key Start, Intro/Ending, Fill-in, Variation, Tempo, Metronome

Demo songs: 50 demo songs with play along feature, Melody Off, Demo All

Overall Control: Pitch Bend, Mixer, Octave, Split, MIDI, Pan, Tune, Transpose, Beat, Percus

Sequencer: Record, Play

Single Touch Play settings, Store Performance, Performance/Pads Other controls:

MIDI: MIDI channel control

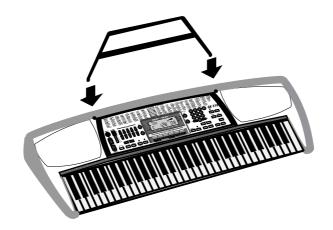
Connectors: DC 9~12 V, Aux. Out, Damper, Phones jack, MIDI In/Out/Thru ports

Dimensions: 955 x 330 x130 mm

Music Stand

The keyboard is supplied with a music stand that can be mounted on the instrument by inserting the two lower pegs of the music stand into the two holes located on the top panel of the GK310.

To remove the music stand, lift up.



Index Numeric keypad 4, 9 Α Octave buttons 13 AC adaptor 1 Octave Transposer 13 Auto-Accompaniment 8 ON+/OFF- buttons 4, 9 Aux. Out 2 One Finger 8, 10 Ρ В Balancing the Lower and Upper sections 6 Pan function 16 Balancing the Style tracks 11 Percussion button 4 Batteries 1 Performance/Pads 15 Beat function 17 Performance/Pads section 12 Performances 6, 12 C Phones 2 Chord Recognition Mode 8 Piano button 7 Chord Recognition Modes 10 Piano Voice 7 Connections 2 Pitch Bend 8 Play along with the Demo Song 3 D Play drums 4 Damper 2 Playing a single Voice 4 Demo Songs 2 Playing Styles 9 Drum Pads 15 Dual button 5 Dual voice 5 Rec button 14 Record 14 Ε Replacing the batteries 1 Ending 11 S.T. Play button 12 Fill1/Normal button 10 Select button 15 Fill2/Var button 10 Selecting Styles 8 Fingered 8, 10 Sequencer 14 G Single Demo Song 3 Single Touch Play 12 General functions 15 Split Point 13 ı Split point 5 Intro 11 Split Point function 16 Intro/Ending button 11 Split Point, program a new setting 13 Split voice 5 K Start/Stop button 9 Key Start 11 Store Performance button 13 Keyboard percussion 4 Style Auto functions 10 Style, selection 9 Styles 8 Layered voices 5 Sustain button 7 Listen to the playback of a recorded Song 14

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Tempo buttons 10

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Transpose function 15

Touch button 17

Tune function 16

Т

U

Upper keyboard 5

V

Variation 10 Voice mode 4 Voice/Style/Song button 8, 12 Voices, selection 4

GK 310

Appendix

Appendix A - One finger chords chart

С	Cm	C7	Cm7	F#/Gb	F#m/Gbm	F#7/Gb7	F#m7/Gbm7
C#Db	C#m/Dbm	C#7/Db7	C#m7/Dbm7	G	Gm	G7	Gm7
D	Dm	D7	Dm7	G#/Ab	G#m/Abm	G#7/Ab7	G#m7/Abm7
D#Eb	D#m/Ebm	D#7/Eb7	D#m7/Ebm7	А	Am	A7	Am7
E	Em	E7	Em7	A#/Bb	A#m/Bbm	A#7/Bb7	A#m7/Bbm7
F	Fm	F7	Fm7	В	Bm	B7	Bm7

Appendix B - Fingered chords chart - Table 1

	С	C#	D	Eb	E	F
MAJOR (C)						
MINOR (Cm)						
DOMINANT 7th (C7)						
MINOR 7th (Cm7)						
MAJOR 7th (Cmaj7)						
DIMINISHED (Cdim)						
AUGMENTED (Caug)						
6th (C6)						
MINOR 6th (Cm6)						

Appendix B - Fingered chords chart - Table 2

	F#	G	Ab	Α	Bp	В
MAJOR (C)						
MINOR (Cm)						
DOMINANT 7th (C7)					• • •	
MINOR 7th (Cm7)					•	
MAJOR 7th (Cmaj7)						
DIMINISHED (Cdim)						
AUGMENTED (Caug)						
6th (C6)						
MINOR 6th (Cm6)						

Appendix C - Demo Songs List

01	SERENATA	26	ONLY YOU
02	SERENADE	27	END OF THE WORLD
03	RONDEAU	28	HOUSE OF RISING SUN
04	FROHLICHER LANDMAN	29	OLD FOLKS AT HOME
05	PIZZICATO POLKA	30	DREAMING OF HOME AND MOTHER
06	FORELLE	31	ANNIE
07	NOCTURNE	32	KILLING ME SOFTLY WITH HIS SONG
80	SYMPHONY NO.94 SUPRISE	33	LOVE
09	HEIPENROSLEIN	34	LAST ROSE OF SUMMER
10	NIGHT	35	LONG, LONG AGO
11	TURKISH MARCH	36	YOU ARE MY SUNSHINE
12	SKIP TO MY SIDE	37	FUNK
13	KAT HOISA	38	I CAN
14	RED RIVER VALLEY	39	SEASHORE
15	JESUS SAVIOUR PILOT ME	40	GUITAR & SAXPHONE
16	TPO H KA	41	COUNT DOWN
17	TENNESSEE WALTZ	42	BLUE LUNCH
18	TURKEY IN THE STRAW	43	COBWEB
19	OLD BLACK JOE	44	WINE
20	COUNTRY	45	OVER THE RAINBOW
21	GOOD TIME	46	BEAUTIFUL DREAMER
22	SUSANA	47	LONG TIME
23	BRIDGE	48	EDELWEISS
24	ON LONDON BRIDGE	49	CARLOS
25	ARE YOU LONESOME TONIGHT	50	END SUMMER

FEDERAL COMMUNICATIONS COMMISSION

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- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION: Changes or modifications to this product not expressly approved by the manufacturer could void the user's authority to operate this product.

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Specifications are subject to change without prior notice.

Specifiche soggette a cambiamento senza preavviso.

Les spécifications sont sujettes à modifications sans préavis.

Änderungen -auch ohne Vorankündigung- sind vorbehalten.

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Sales Division: I -47048 S.Giovanni in Marignano (RN) - Italy - Via delle Rose, 12

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