



SZ-CONTROLKEY25

SZ-CONTROLKEY49

SZ-CONTROLKEY61

USER MANUAL

WARNING! EN

Do not open cover. No user-serviceable parts inside. Refer servicing to qualified service personnel

Do not place the product in a location near a heat source such as a radiator, or in an area subject to direct sunlight, excessive dust, mechanical vibration or shock

The product must not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the product

No naked flame sources, such as lighted candles, should be placed on the product

Allow adequate air circulation and avoid obstructing vents (if present) to prevent internal heat build-up. The ventilation must not be impeded by covering the appliance with items such as newspapers, table-cloths, curtains etc.

The mains plug is used to disconnect the appliance from the mains supply. Ensure that the mains outlet is easily-accessible and remove the plug from the mains outlet if you notice any abnormality with the appliance.

To prevent injury, this appliance must be securely attached to the floor/wall in accordance with the installation instructions.

VAROVÁNÍ! CZ

Nezakrývejte. Uvnitř nejsou žádné součásti opravitelné uživatelem. S požadavkem na servis se odkažte na kvalifikované servisní oddělení.

Neumísťujte produkt v blízkosti zdroje tepla, jako je radiátor, nebo na místo s přímým slunečním světlem, nadměrným prášením, mechanickými vibracemi nebo šokem.

Produkt nesmí přijít do kontaktu s vodou a žádné objekty naplněné tekutinami, jako například vázy, by neměly být umístěny na produkt.

Žádné zdroje otevřeného ohně, jako například svíčky, by neměly být umístěny na produkt.

Umožněte dostatečnou cirkulaci vzduchu a vyhněte se obstrukci ventilátorů (pokud jsou přítomné) pro předejití interního přehřívání. Ventilace nesmí být narušena překrytím zařízení výrobky jako např. noviny, kuchyňské utěrky, záclony apod.

Hlavní kabel umožňuje odpojit zařízení od elektřiny. Ujistěte se, že hlavní napájecí výstup je snadno dostupný a odpojte kabel pokud zaznamenáte jakoukoliv abnormalitu na zařízení.

Pro předejití zranění, toto zařízení musí být bezpečně připevněno ke zdi/podlaze v souladu s instrukcemi instalace.

ADVARSEL! DK

Dækslet må ikke åbnes. Ingen bruger-udsiftelige dele indeni. Overlad service til kvalificeret service personale

Placer ikke produktet i nærheden af varmekilder såsom en radiator eller i direkte sollys, meget støv, mekaniske vibrationer eller stød

Produktet må ikke udsættes for vand eller stænk, og ingen genstande fyldt med væsker, f.eks. vaser, må anbringes på produktet

Må ikke placeres nær åben ild, tændte stearinlys må ikke placeres på produktet

Vær sikker på at der er tilstrækkelig luftcirkulation og undgå at dække ventiler (hvis der er nogen) for at undgå at produktet bliver varmt. Ventillationen må ikke blokeres med overdækning af apparatet med genstande som aviser, dug, gardiner osv.

Stikket bruges til at afbryde apparatet fra strømmen. Sikre at stikkontakten er let tilgængelige, og fjern stikket fra stikkontakten, hvis du bemærker noget unormalt med apparatet.

For at undgå skade skal dette apparat være fastgjort forsvarligt til gulv/væg i overensstemmelse med installationsvejledningen.

WAARSCHUWING! NL

Maak de behuizing niet open. Dit toestel bevat geen onderdelen die door de gebruiker kunnen worden vervangen. Laat onderhoud over aan bevoegd onderhoudspersoneel.

Plaats het produkt niet in de buurt van een hittebron zoals een radiator of in direkt zonlicht of in een stofrijke omgeving, mechanische vibratie of schok.

Plaats het produkt niet in de buurt van spattende of lekkende voorwerpen gevuld met een vloeistof zoals bijvoorbeeld een vaas.

Er mogen geen open vlammen zoals aangestoken kaarsen op de apparatuur worden geplaatst.

Zorg om overhitting te voorkomen voor voldoende ventilatie en bellemmer ventilatieroosters niet. Bedek het produkt niet met dingen zoals kranten, tafellakens, gordijnen etc.

De stekker van dit apparaat wordt gebruikt om het apparaat aan en uit te zetten. Zorg ervoor dat het stopcontact gemakkelijk bereikbaar is en haal de stekker uit het stopcontact als u enige onregelmatigheid ondervindt.

Om verwondingen te voorkomen moet dit produkt goed worden bevestigd aan de vloer of de wand, naar gelang de instructies.

VAROITUS! FI

Älä avaa kantta. Ei sisällä käyttäjä-huollettavia osia. Huollot saa suorittaa vain pätevä huoltomies.

Älä säilytä tuotetta minkään kuuman lähellä kuten patteri tai suorassa auringonpaisteessa, pölyisessä, mekaanisessa värinässä tai iskussa

Tuotetta ei saa altistaa tippuvalle tai loiskeelle tai nesteitä sisältäviä tuotteita kuten maljakko eivät saa olla tuotteen lähetyvillä

Avotulia kuten sytytetty kynttilä ei saa olla tuotteen päällä.

Salli riittävä ilmankierto ja vältä tuuletusaukkojen tukkiminen (jos sellaisia on olemassa) estämään sisäisen lämmön muodostuminen. Tuulesta ei saa estää peittämällä laite esineillä, kuten sanomalehdillä, pöytäliinoilla, verhoilla jne.

Verkkovirtapistoketta käytetään irrottamaan laite verkkovirrasta. Varmista, että pistorasia on helposti saatavilla ja irrota pistotulppa pistorasiasta, jos havaitset jotain epänormaalia laitteessa.

Loukkaantumisen estämiseksi laite on kiinnitettävä tukevasti lattiaan / seinään asennuksen ohjeiden mukaisesti.

ATTENTION! FR

Ne pas ouvrir le couvercle. Aucune pièce interne réparable par l'utilisateur. Confier la réparation à du personnel de réparation qualifié

Ne pas laisser l'appareil à proximité d'une source de chaleur telle qu'un radiateur, dans un endroit directement exposé aux rayons du soleil, trop poussiéreux, ou pouvant subir des chocs mécaniques

L'appareil ne doit pas être exposé aux gouttes d'eau et aux éclaboussures, et aucun objet rempli de liquide, tel qu'un vase, ne doit être posé dessus

Ne placer aucune source de flamme nue, telle qu'une bougie allumée, sur l'appareil

Assurer une circulation d'air suffisante et éviter d'obstruer les fentes (le cas échéant) afin d'éviter une surchauffe interne. La ventilation ne doit pas être bloquée en couvrant l'appareil avec des objets tels que des journaux, des nappes, des rideaux, etc.

La prise secteur est utilisée comme dispositif de débranchement. La prise murale doit être facile d'accès, et en cas d'anomalie de l'appareil, débrancher la prise de courant au niveau de la prise murale.

Afin d'éviter tout risque de blessure, cet appareil doit être fixé au sol ou au mur de manière sécurisée, conformément aux instructions d'installation.

WARNUNG! DE

Öffnen Sie nicht das Gehäuse. Im Inneren befinden sich keine vom Benutzer zu wartenden Teile. Überlassen Sie Wartungsarbeiten qualifiziertem Fachpersonal.

Stellen Sie das Produkt nicht an einen Ort in der Nähe einer Wärmequelle wie etwa eines Heizkörpers oder in einem Bereich mit direktem Sonnenlicht, übermäßigem Staub, mechanischen Vibrationen oder Stößen.

Schützen Sie das Produkt vor tropfenden oder spritzenden Flüssigkeiten, und stellen Sie keine mit Flüssigkeiten gefüllten Gegenstände wie Vasen auf das Produkt.

Offene Feuerquellen wie Kerzen dürfen nicht auf dem Gerät abgestellt werden.

Sorgen Sie für eine ausreichende Luftzirkulation und vermeiden Sie, dass die Lüftungsschlitze (falls vorhanden) abgedeckt werden, um einen internen Wärmestau zu verhindern. Die Belüftung darf nicht durch Abdecken des Gerätes mit Gegenständen wie Zeitungen, Tischdecken, Vorhängen usw. blockiert werden.

Der Netzstecker dient zum Trennen des Gerätes vom Netz. Vergewissern Sie sich, dass die Steckdose leicht zugänglich ist, und ziehen Sie den Stecker aus der Steckdose, wenn Sie eine Anomalie mit dem Gerät bemerken.

Um Verletzungen zu vermeiden, muss dieses Gerät gemäß den Installationsanweisungen sicher am Boden bzw. an der Wand befestigt werden.

AVVERTIMENTO! IT

Non aprire il coperchio. Se fosse necessario, riferirsi ad un esperto.

Non esporre il prodotto a fonti di calore, luce del sole diretta, polvere, vibrazioni meccaniche o altri possibili shock.

Non esporre il prodotto a perdite di liquido o a spruzzi. Non appoggiare nessun oggetto contenente acqua sul prodotto.

Non esporre il prodotto a fuoco, candele o oggetti simili.

Assicurarsi la circolazione dell'aria e non ostruire le ventole, se presenti, per evitare il surriscaldamento. La ventilazione non deve subire impedimenti dovuti a giornali, tovaglie, tende, ecc.

La spina principale viene utilizzata per disconnettere il prodotto dalla principale fonte di energia. Assicurarsi che la spina sia facilmente accessibile e disconnettere l'unità nel caso si notassero dei difetti di funzionamento.

Per evitare danni, il prodotto deve essere appoggiato a terra o installato al muro in modo sicuro e stabile, secondo le istruzioni.

ADVARSEL! NO

Ikke åpne dekslet. Inneholder ingen deler som kan brukes. Overlat reoperasjon til kvalifisert servicepersonell.

Ikke plasser produktet i nærheten av varmekilder som f.eks. en radiator, eller i områder som er utsatt for direkte sollys, mye støv, mekanisk vibrasjon eller støt.

Produktet må ikke utsettes for drypping eller spruting, og gjenstander som er fylt med væsker, som f.eks. vaser, skal ikke plasseres på produktet.

Åpne flammer, som f.eks. tente lys, bør ikke plasseres på produktet.

Tillat tilstrekkelig luftsirkulasjon og unngå å blokkere ventiler (hvis tilstede) for å forhindre intern varmeoppsamling. Pass på at ventilasjon ikke hindres ved å unngå å dekke apparatet med ting som aviser, bordduker, gardiner osv.

Stikkkontakten brukes til å koble apparatet fra strømforsyningen. Forsikre deg om at stikkkontakten er lett tilgjengelig og ta støpselet ut av stikkkontakten hvis du oppdager uregelmessigheter under bruk av apparatet.

For å forhindre skade må dette apparatet være godt festet til gulvet/veggen i henhold til installasjonsinstruksjoner.

OSTRZEŻENIE! PL

Nie otwierać pokrywy. W środku nie ma części nadających się do naprawy przez użytkownika. Prosimy pozostawić serwis dla wyszkolonego personelu.

Nie umieszczać produktu w pobliżu źródła ciepła, np. grzejnika, lub w bezpośrednim świetle słonecznym, kurzu, czy mechanicznym wibracjom.

Produkt ten nie może być ekspozowany na kapanie lub chlapanie, a przedmioty wypełnione płynami, takie jak wazy, nie powinny być na nim umieszczane.

Źródła otwartego ognia, takie jak np. świece, nie powinny być umiejscowiane na produkcie.

Należy zapewnić odpowiednią wentylację i unikać blokowania otworów wentylacyjnych, aby uniknąć wewnętrznego wzrostu temperatury. Wentylacja nie powinna być utrudniana poprzez nakrywanie urządzenia gazetami, obrusami czy zasłonami.

Wtyczka sieciowa służy do odłączenia urządzenia od zasilania sieciowego. Należy upewnić się, że gniazdo sieciowe jest łatwo dostępne, a w razie wystąpienia nieprawidłności w funkcjonowaniu urządzenia odłączyć je od zasilania sieciowego.

Aby uniknąć pokaleczenia, urządzenie musi być bezpiecznie przytwierdzone do podłogi/ściany zgodnie z instrukcją.

ATENÇÃO! PT

Não abra a tampa. Não tente a reparação do instrumento por si. Dirija-se a pessoal qualificado

Não aproxime a uma fonte de calor excessivo ou exponha o produto à luz solar, poeira, vibração ou choque

Não mantenha o produto num local húmido ou perto líquidos como vasos, etc.

Não aproxime o produto a fontes de fogo vivo, como velas

Mantenha o produto num espaço suficientemente arejado de forma a evitar sobre-aquecimento. Não bloqueie a ventilação do instrumento, cobrindo-o com artigos como cortinas, toalhas de mesa ou jornais

O transformador é utilizado para conectar e desconectar o artigo da principal fonte de energia. Certifique-se que a ficha é facilmente acessível e que o artigo está devidamente ligado à corrente se detectar alguma anomalia com o funcionamento

Para prevenir acidentes, recomendamos que fixe este produto à parede ou chão, em conformidade com as instruções de instalação.

VÝSTRAHA! SK

Neotvárajte kryt. Vo vnútri nie sú žiadne súčasti, ktoré sú opraviteľné užívateľom. S požiadavkou na servis sa obráťte na kvalifikované servisné stredisko.

Nevystavujte produkt do blízkosti akéhokoľvek tepelného zdroja ako napr. radiátora, alebo do kontaktu so slnečným žiarením, nadmerným prašným prostredím, mechanickým vibráciám alebo šokom.

Produkt nesmie prísť do kontaktu s vodou a žiadny objekt naplnený vodou, ako napr. váza, nesmie byť umiestnený na produkt.

Žiadne výrobky s otvoreným ohňom, ako napr. sviečky, by nemali byť umiestnené na produkt.

Umožnite dostatočnú cirkuláciu vzduchu a zabráňte obštrukcii ventilačných otvorov (ak sú prítomné) kvôli prevencii vnútorného prehrievania. Ventilácia nesmie byť narušená prekrytím zariadenia výrobkami ako napr. noviny, kuchynské utierky, záclony a pod.

Hlavný kábel umožňuje odpojiť zariadenie od elektriny. Uistite sa, že hlavný napájací výstup je ľahko dostupný a odpojte kábel ak zaznamenáte akúkoľvek abnormalitu na zariadení.

Na prevenciu proti zraneniu musí byť toto zariadenie bezpečne pripevnené k podlahe/stene, tak ako je to uvedené v návode na inštaláciu.

OPOZORILO! SI

Ne odpirajte pokrova. V notranjosti ni nobenih delov, ki jih uporabnik lahko sam popravlja. Popravilo prepustite usposobljenemu osebu.

Ne postavljajte izdelka na lokacijo v bližini vira toplote, kot je radiator, ali na območje, ki je izpostavljeno neposredni sončni svetlobi, pretiranemu prahu, mehanskim tresljajem ali udarcem.

Izdelek ne sme biti izpostavljen kapljanju ali brizganju in nobeni predmeti, napolnjeni z vodo, kot so vaze, se ne smejo postaviti na izdelek.

Nobenega od virov odprtega ognja, kot so vžgane sveče, se ne sme postavljati na izdelek.

Zagotovite zadostno kroženje zraka in umaknite ovire na odprtinah (če obstajajo), zaradi preprečevanja kopičenja notranje toplote. Ventilacijo se ne sme ovirati s prekrivanjem naprave s predmeti, kot so časopisi, prti, zavese itn.

Omrežni vtič se uporablja za izklop naprave iz električnega omrežja. Poskrbite, da je omrežna vtičnica zlahka dostopna in izvlecite vtič iz vtičnice, če opazite kakršno koli nepravilnost pri napravi.

Da bi preprečili poškodbe, mora biti ta naprava varno pritrjena na tla/steno v skladu z navodili za namestitve.

¡ADVERTENCIA! ES

No abra la tapa. No intente reparar el aparato usted mismo. Llévelo a reparar por personal calificado.

No coloque el aparato cerca de fuentes de calor excesivo o donde esté expuesto a luz solar directa, golpes, vibraciones o polvo.

Evite lugares expuestos a humedad. No ponga objetos llenos de líquidos en la superficie de este aparato.

No se deben colocar fuentes de llama desnuda, como velas encendidas, en la superficie de este aparato.

Mantenga suficiente espacio alrededor del aparato para permitir una ventilación adecuada. No obstruya o tape las aberturas con objetos como periódicos, manteles, cortinas, etc.

El enchufe se utiliza para desconectar el producto de la corriente. Si nota algún defecto, desconéctelo de la toma de corriente.

Para evitar lesiones, este aparato debe fijarse con seguridad al piso o pared de acuerdo con las instrucciones de instalación.

VARNING! SE

Öppna ej locket. Inga användarvänliga delar inuti. För reparationer vänd er till kvalificerad servicepersonal.

Ställ ej produkten vid en värmekälla t.ex element, i direkt solljus, damm, elektronisk vibration eller shock.

Produkten bör ej bli utsatt för droppande eller stänk och inga objekt fyllda med vätskor som t.ex vaser skall ställas på produkten.

Ingen källa till öppna flammor som t.ex tända ljus bör placeras på produkten.

Tillåt tillräcklig luftcirkulation och blockera ej eventuella ventiler för att undvika intern överhettning. Ventilen bör ej täckas av föremål såsom tidningar, dukar, gardiner etc.

Nätkontakten används för att koppla bort apparaten från eluttaget. Se till att eluttaget är lättåtkomligt och avlägsna kontakten från eluttaget om du upptäcker något abnormalt med produkten.

För att undvika skada måste denna produkt vara fastsatt på golvet eller i väggen enligt instruktionerna.

INTRODUCTION

Thank you for purchasing one of the SZK range of controller keyboards. To help you get the most out of your new instrument, please read this manual carefully.

To use all the functions of this product, you may need to 'map' (or set up) the key functions of this controller. Instructions on how to do this are not in the manual are normally available in the user manuals for the software you are using.

MAIN FEATURES

25/49/61 key professional touch response keyboard.

1 assignable pedal interface, which can be connected to both switching type and continuous type pedal, and be assigned as 152 controllers. (KS25B).

2 assignable pedal interfaces, which can be connected to both switching type pedal and continuous pedal, and can be assigned as 152 controllers. (KS49B/61B).

1 assignable slider, which can be assigned as 148 controllers.

Pitch Bend Wheel and Modulation Wheel, which can be assigned as 148 controllers.

2 assignable numeric pads, which can be assigned as 160 controllers.

1 knob function group switching button.

4 assignable knobs, which can accomplish two groups of functions with each knob distributed with an independent channel. These knobs can be assigned as 160 controllers.

Keyboard multi-functional buttons, which can provide functions such as voice adjustment, dual, touch sensitivity adjustment, numeric pads, etc.

1 MIDI OUT.

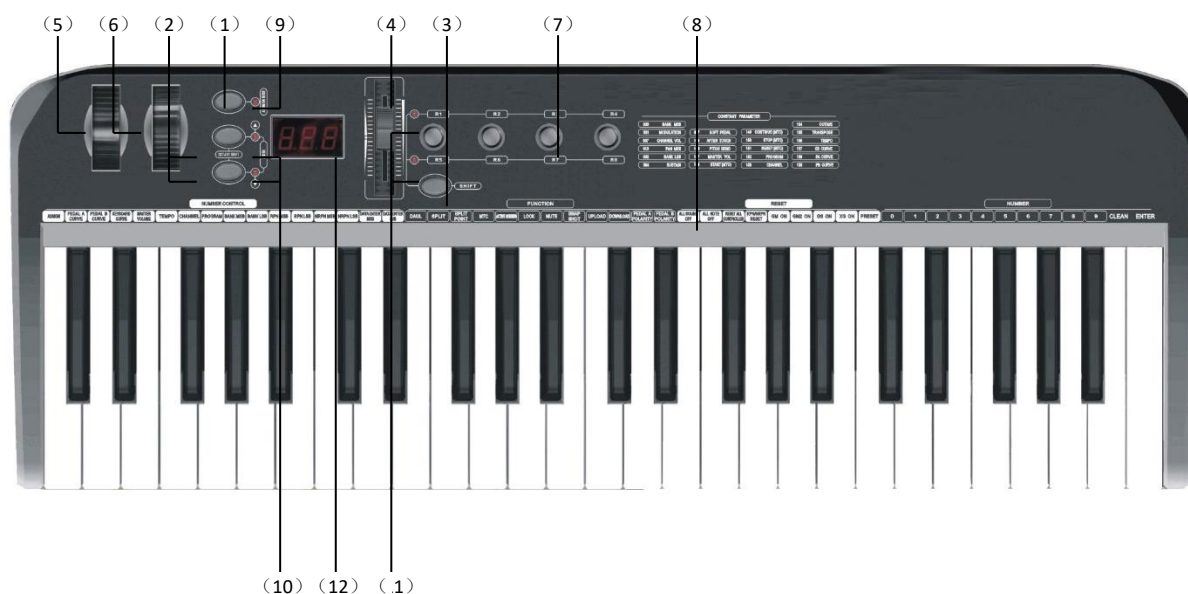
USB 2.0 Interface

Powered by USB

Compatible with Windows 10/8/7/Vista/XP and Mac OSX, driver free and hot plug supporting.

Compatible with mainstream pro audio and sequencer DAWs.

CONTROLS



- (1) EDIT Button - Opens and closes keyboard multi-function.
- (2) DATA +/- Button - It is to assign numeric +/- button, and could be assigned as 160 controllers. The initial setting is 154th controller: octave adjustment.
- (3) SWITCH Button - It is to switch function groups of knobs R1~R4 and R5~R8.
- (4) SLIDER Fader - It is an assignable fader that can be assigned as 148 controllers. The initial setting is 147th controller: master volume.
- (5) PITCH BEND Wheel - It is an assignable wheel that can be assigned as 148 controllers. The initial setting is 146th controller: pitch bend wheel.
- (6) MODULATION Wheel - It is an assignable wheel that can be assigned as 148 controllers. The initial setting is 1st controller: modulation wheel.
- (7) R1 ~ R8 Knobs - These are assignable knobs with an independent channel distributed to each knob and each knob can be assigned as 160 controllers. The initial channel of R1 ~ R4 is 0, initial controller numbers are 152, 153, 156 and 157, which controls voice, channel, tempo and keyboard velocity curve respectively. The initial channels of R5 ~ R8 are 0 ~ 3, initial control number is 7, which controls the volume of channels 0 ~ 3 respectively. The function group of R1 ~ R4 and R5 ~ R8 is switched by the SWITCH button.
- (8) Keyboard Multi-function - This function is turned on/off by the EDIT button. When it is on, the keyboard provides functions shown on the picture, including voice adjustment, dual, touch sensitivity adjustment, numeric pads, etc.
- (9) EDIT Indicator - When EDIT indicator is on, keyboard multi-function is on and vice versa.
- (10) OCTAVE/TRANPOSE Indicator - When the indicator is on, it indicates that there's upper/lower octave adjustment. When the indicator flickers slowly, it indicates that there is upper/lower octave adjustment, when it flickers quickly it indicates that there's

upper/lower octave and transpose adjustment at the same time. When the indicator is off, it indicates that there's no upper/lower octave nor transpose adjustment.

(11) Knob Function Group Indicator - When the corresponding indicator of R1 ~ R4 is on, the current function group is R1 ~ R4. If the indicator of R5 ~ R8 is on, the current knob function group is R5 ~ R8.

(12) LED - This displays the current number / status information.

REAR PANEL

(1) MIDI OUT - MIDI output interface.

(2) PEDAL A - Pedal A input interface, which can connect both switching type and continuous type pedals. It can be assigned as 152 controllers, the initial setting is soft pedal.

(3) PEDAL B - Pedal A input interface, which can connect both switching type and continuous type pedals. It can be assigned as 152 controllers, the initial setting is sustain pedal.

(4) USB - USB Interface

(5) DC9V - 9V Power input interface.

(6) OFF/ON - Power Off/On.

CONNECTION/POWER/CONTROL

KS25B/49B/61B is connected to MAC or PC via the USB cable. This connection powers the keyboard and is used to transfer the MIDI data to the PC. In addition, you can connect to other devices, such as a MIDI sound module, via the MIDI output port.

KS25B can also be used standalone when connected to an optional 9V DC power supply. In this case the MIDI data will only be sent out via the MIDI output port.

ASSIGN CONTROLLERS

Press the EDIT button to enter keyboard multi-function mode, the EDIT indicator will be on. Press the ASSIGN button to enter controller assignment mode, LED shows CHO reminding the user to choose the controller that needs to be assigned. Operate the controller to select it (for example, if you want to assigned SLIDER, slide the SLIDER to select), the LED shows the controller number of the selected controller, input the desired assignable parameter value with the numeric pad, and press ENTER to confirm (for example, is SLIDER is selected, input 147 and the slider is assigned as Master Volume Controller).

Assignable controllers reference: Appendix 1 - Assignable Controller List

Assignable controller parameters reference: Appendix 2 - Assignable Controller Parameter List.

PEDAL RESISTANCE CURVE

You can adjust the pedal resistance curve to better to pedals of different specifications and resistance values.

Estimated resistance curve: Value of PA Curve or PB Curve = $(128 \times \text{pedal resistance value}) / (10K + \text{pedal resistance value})$. For instance, if the pedal resistance value is 10K, the value of PA Curve or PB Curve is: $128 \times 10K / (10K + 10K) = 64$.

For pedal resistance value, please refer to the technical specifications provided by the factor.

The estimation of resistance curve does not have to be very accurate, or you could just adjust it without calculation, as long as the travel and succession of the pedal is satisfactory.

The initial value of the resistance curve is 64, this works with most pedals on the market.

When using a switching type pedal, the recommended resistance curve value is also 64.

When DATA +/- is assigned as PA CURVE or PB CURVE, DATA +/- can be used to adjust resistance curve values. Press both + and - at the same time to restore the resistance curve back to 64.

When the knobs (R1 ~ R4 or R5 ~ R8) are assigned as PA CURVE or PB CURVE, they can be used to adjust pedal resistance value.

Press the EDIT button to enter into keyboard multi-function mode, press PA CURVE or PB CURVE multi-functional keys to enter into pedal resistance curve adjustment mode, input the pedal resistance value with the numeric pad, then press ENTER to confirm. (KS49/61)

TEMPO

When DATA +/- is assigned as TEMPO, it can be used to adjust tempo. Press DATA +/- at same time to restore the initial tempo to 100.

When the knobs (R1 ~ R4 or R5 ~ R8) are assigned as TEMPO, they (R1 ~ R4 or R5 ~ R8) can be used to adjust tempo.

Press the EDIT button to enter into keyboard multi-function mode, press TEMPO or enter into tempo adjustment mode, then input the tempo value with numeric pad, press ENTER to confirm. (KS49B/61B)

PROGRAM

When DATA +/- is assigned as PROGRAM, DATA +/- can be used to adjust program. Press DATA +/- at the same time to restore the initial program number to 0.

When the knobs (R1 ~ R4 or R5 ~ R8) are assigned as PROGRAM, they can be used to adjust the program value.

Press the EDIT button to enter into keyboard multi-function mode, press PROGRAM button to enter into program adjustment mode, then input the program number with numeric pad and press ENTER to confirm.

MIDI CHANNEL

When DATA +/- is assigned as CHANNEL, use DATA +/- to adjust MIDI channel. Press DATA +/- at the same time to set channel to 0.

When knob R1 ~ R4 or R5 ~ R8 are assigned as CHANNEL, use knob R1 ~ R4 or R5 ~ R8 to adjust general MIDI channel.

Press the EDIT button to enter keyboard multi-function mode, then press CHANNEL to enter channel adjustment mode, use the numeric pad to enter general midi channel number and press ENTER to confirm.

Press the EDIT button to enter keyboard multi-function mode, then press CHANNEL to enter channel adjustment mode. Operate the desired knob from R1 ~ R4 or R5 ~ R8 to select that knob, then use the numeric pad to enter MIDI channel number and press ENTER to confirm.

TRANSPOSE

When DATA +/- is assigned as TRANSPOSE, use DATA +/- to adjust the transpose setting. The adjustment range is 12 semitones above and below. Press DATA +/- at the same time to set Transpose to 0.

Hold EDIT and use DATA +/- to adjust transpose. Adjustment range is +/- 12 semitones.

When knob R1 ~ R4 or R5 ~ R8 are assigned as TRANSPOSE, use knob R1 ~ R4 or R5 ~ R8 to adjust the transpose setting. Adjustment range is 12 semitones above and below.

3.9 OCTAVE

When DATA +/- is assigned as OCTAVE, use DATA +/- to adjust the octave setting. Adjustment range is +/- 3 octaves. Press DATA +/- buttons at the same time to set the octave to 0.

When knob R1 ~ R4 or R5 ~ R8 are assigned to OCTAVE, use these knobs to adjust the octave setting. The adjustment range is +/- 3 octaves.

DUAL

Press the EDIT button to enter keyboard multi-function mode, then press DUAL to open or close the dual function.

Dual and keyboard split functions cannot be used at the same time, opening DUAL will turn off the keyboard split function automatically.

KEYBOARD SPLIT

Press the EDIT button to enter keyboard multi-function mode, then press SPLIT to open or close the keyboard split function.

Dual and keyboard split functions cannot be used at the same time, opening DUAL will turn off the keyboard split function automatically. (KS49B/61B)

SPLIT POINT

Press the EDIT button to enter keyboard multi-function mode, then press SPLIT POINT to select split point. The screen displays CHO to remind users to select the split point, then pressed the desired split point note, this note will be the new split point. (KS49B/61B)

MTC

Press the EDIT button to enter keyboard multi-function mode, then press MTV to open or close sending MTC messages (F8).

ACTIVE SENSING

Press the EDIT button to enter keyboard multi-function mode, then press ACTIVE SENSING to open or close active sensing messages (FE). (KS49B/61B)

LOCK

Press the EDIT button to enter keyboard multi-function mode, then press LOCK to open or close the keyboard lock function. No other controls except the keyboard can be operated under lock mode. (KS49B/61B)

MUTE

Press the EDIT button to enter keyboard multi-function mode, then press MUTE to open or close the mute function. No messages will be transmitted during mute mode.

SNAP SHOT

Press the EDIT button to enter keyboard multi-function mode, then press SNAP SHOT, DATA +/-, SLIDER, WHEEL, PEDAL, R1 ~ R4 and R5 ~ R8 all together to transmit DATA at the same time.

UPLOAD/DOWNLOAD

Use the USB port to connect to your computer and upload or download user parameters. The transmit messages are system exclusive in the form of F0 – F7. According to difference sequencer software, there are different ways to receive/send system messages.

PEDAL POLARITY

The system can recognize or change pedal polarity. If you want the pedal to transmit PEDAL ON message while pressing the pedal, and PEDAL OFF message while releasing the pedal, you do not need to make any adjustments. Otherwise, you can press down the pedal while switching the unit on and release the pedal after the unit is turned on.

Alternatively, press the EDIT button to enter keyboard multi-function mode, then press PEDAL A polarity or PEDAL B polarity to adjust this setting. (KS49B/61B)

SWITCH KNOB FUNCTION GROUPS

Press SWITCH to shift knob function group between R1 ~ R4 to R5 ~ R8.

ALL NOTE OFF

Press the EDIT button to enter keyboard multi-function mode, then press ALL NOTE OFF to transmit all note off message (controller #213), in the case of abnormal constant sound from the system or sound module.

ALL SOUND OFF

Press the EDIT button to enter keyboard multi-function mode, then press ALL SOUND OFF to transmit all note off message (controller #120), in the case of abnormal constant sound from the system or sound module. (KS49B/61B)

RESET ALL CONTROLLERS

Press the EDIT button to enter keyboard multi-function mode, then press RESET ALL CONTROLLERS to reset all MIDI messages (Controller #121).

GM/GS/XG ON

Press the EDIT button to enter keyboard multi-function mode, and then press GM/GS/XG ON to transmit GM initialisation message (F0 7E 7F 09 01 F7), GS initialisation message (F0 41 10 42 12 40 00 7F 00 41 F7) and XG initialisation message (F0 43 10 4C 00 00 7E 00 F7). (KS25B)

GM ON

Press the EDIT button to enter keyboard multi-function mode, then press GM ON to transmit GM initialisation message (F0 7E 7F 09 01 F7). (KS40B/61B)

GM2 ON

Press the EDIT button to enter keyboard multi-function mode, then press GM2 ON to transmit GM2 initialisation message (F0 7E 7F 09 03 F7). (KS40B/61B)

GS ON

Press the EDIT button to enter keyboard multi-function mode, then press GS ON to transmit GS initialisation message (F0 41 10 42 12 40 00 7F 00 41 F7). (KS40B/61B)

XG ON

Press the EDIT button to enter keyboard multi-function mode, then press XG ON to transmit XG initialisation message (F0 43 10 4C 00 00 7E 00 F7). (KS40B/61B)

RESET

Press the EDIT button to enter keyboard multi-function mode, then press RESET to return to factory settings.

If used together with the SNAP SHOT function it can transmit presets to subsequent device. (KS49B/61B)

CLEAN

While using the numeric pad to enter number, press the CLEAN button to set the number to 0. (KS40B/61B)

RESET

Unless otherwise stated, pressing DATA +/- at the same time will set parameters to 0. Refer to above explanations for other unmentioned controllers.

4.1. APPENDIX 1 ASSIGNABLE CONTROLLER LIST

| NO. | ITEM | DEFAULT CHANNEL | PARAMETER RANGE | DEFAULT PARAMETER | D.PARAMETER VALUE |
|-----|----------|-----------------|-----------------|-------------------|-------------------|
| 1 | Data +/- | 0 | 0~159 | 154 | 0 |
| 2 | Slider | 0 | 0~147 | 147 | 0 |
| 3 | Wheel 1 | 0 | 0~147 | 146 | 64 |
| 4 | Wheel 2 | 0 | 0~147 | 1 | 0 |
| 5 | Pedal A | 0 | 0~151 | 64 | 0 |
| 6 | Pedal B | 0 | 0~151 | 67 | 0 |
| 7 | A 1 | 0 | 0~159 | 152 | 0 |
| 8 | A 2 | 0 | 0~159 | 153 | 0 |
| 9 | A 3 | 0 | 0~159 | 156 | 100 |
| 10 | A 4 | 0 | 0~159 | 157 | 0 |
| 11 | B 1 | 0 | 0~159 | 7 | 100 |
| 12 | B 2 | 1 | 0~159 | 7 | 100 |
| 13 | B 3 | 2 | 0~159 | 7 | 100 |
| 14 | B 4 | 3 | 0~159 | 7 | 100 |

APPENDIX 2 ASSIGNABLE CONTROLLER PARAMETER LIST

| CONTROLLER NO. | DEFINITION | DEFAULT VALUE | D. PARAMETER VALUE |
|----------------|----------------------|---------------|--------------------|
| 0 | Bank Select MSB | 0 | 0-127 |
| 1 | Modulation MSB | 0 | 0-127 |
| 2 | Breath MSB | 127 | 0-127 |
| 3 | Controller | 0 | 0-127 |
| 4 | Foot Controller MSB | 127 | 0-127 |
| 5 | Portamento time MSB | 0 | 0-127 |
| 6 | Data Entry MSB | 2 | 0-127 |
| 7 | Channel Volume MSB | 100 | 0-127 |
| 8 | Balance MSB | 64 | 0-127 |
| 9 | Controller | 0 | 0-127 |
| 10 | Panpot MSB | 64 | 0-127 |
| 11 | Expression MSB | 127 | 0-127 |
| 12 | Effect Control 1 MSB | 0 | 0-127 |
| 13 | Effect Control 2 MSB | 0 | 0-127 |
| 14-31 | Controller | 0 | 0-127 |
| 32 | Bank Select LSB | 0 | 0-127 |
| 33 | Modulation LSB | 0 | 0-127 |
| 34 | Breath LSB | 127 | 0-127 |
| 35 | Controller | 0 | 0-127 |

| | | | |
|---------|---------------------|-----|-------|
| 36 | Foot Controller LSB | 127 | 0-127 |
| 37 | Portamento time LSB | 0 | 0-127 |
| 38 | Data Entry LSB | 0 | 0-127 |
| 39 | Channel Volume LSB | 127 | 0-127 |
| 40 | Balance LSB | 64 | 0-127 |
| 41 | Controller | 0 | 0-127 |
| 42 | Panpot LSB | 64 | 0-127 |
| 43 | Expression LSB | 127 | 0-127 |
| 44-63 | Controller | 0 | 0-127 |
| 64 | Sustain | 0 | 0-127 |
| 65 | Portamento | 0 | 0-127 |
| 66 | Sostenuto | 0 | 0-127 |
| 67 | Soft Pedal | 0 | 0-127 |
| 68 | Legato FootSwitch | 0 | 0-127 |
| 69 | Hold 2 | 0 | 0-127 |
| 70 | Sound Controller | 64 | 0-127 |
| 71 | Resonance | 64 | 0-127 |
| 72 | Release Time | 64 | 0-127 |
| 73 | Attack Time | 64 | 0-127 |
| 74 | Cutoff | 64 | 0-127 |
| 75 | Decay Time | 0 | 0-127 |
| 76 | Vibrato Depth | 64 | 0-127 |
| 77 | Vibrato Depth | 64 | 0-127 |
| 78 | Vibrato Depth | 64 | 0-127 |
| 79 | Sound Controller | 64 | 0-127 |
| 80-83 | Controller | 0 | 0-127 |
| 84 | Portamento Control | 0 | 0-127 |
| 85-90 | Controller | 0 | 0-127 |
| 91 | Reverb | 40 | 0-127 |
| 92 | Effects | 0 | 0-127 |
| 93 | Chorus | 0 | 0-127 |
| 94 | Effects | 0 | 0-127 |
| 95 | Effects | 0 | 0-127 |
| 96 | RPN Increment | 0 | 0-127 |
| 97 | RPN Decrement | 0 | 0-127 |
| 98 | NRPN LSB | 0 | 0-127 |
| 99 | NRPN MSB | 0 | 0-127 |
| 100 | RPN LSB | 0 | 0-127 |
| 101 | RPN MSB | 0 | 0-127 |
| 102-119 | Controller | 0 | 0-127 |

| | | | |
|-----|--------------------------------|-----|--------|
| 120 | All Sound Off | 0 | 0-127 |
| 121 | Reset All Controllers | 0 | 0-127 |
| 122 | Local Control | 0 | 0-127 |
| 123 | All Notes Off | 0 | 0-127 |
| 124 | OMNI Off | 0 | 0-127 |
| 125 | OMNI On | 0 | 0-127 |
| 126 | Mono | 0 | 0-127 |
| 127 | Poly | 0 | 0-127 |
| 128 | Pitch Bend Sensitivity (RPN) | 2 | 0-127 |
| 129 | Channel Fine Tuning (RPN) | 64 | 0-127 |
| 130 | Channel Coarse Tuning (RPN) | 64 | 0-127 |
| 131 | Modulation Depth Range (RPN) | 64 | 0-127 |
| 132 | Vibrato Rate (NRPN) | 64 | 0-127 |
| 133 | Vibrato Depth (NRPN) | 64 | 0-127 |
| 134 | Vibrato Delay (NRPN) | 64 | 0-127 |
| 135 | Filter Cutoff Frequency (NRPN) | 64 | 0-127 |
| 136 | Filter Resonance (NRPN) | 64 | 0-127 |
| 137 | EQ Low Gain (NRPN) | 64 | 0-127 |
| 138 | EQ High Gain (NRPN) | 64 | 0-127 |
| 139 | EQ Low Frequency (NRPN) | 64 | 0-127 |
| 140 | EQ High Frequency (NRPN) | 64 | 0-127 |
| 141 | EG Attack Time (NRPN) | 64 | 0-127 |
| 142 | EG Decay Time (NRPN) | 64 | 0-127 |
| 143 | EG Release Time (NRPN) | 64 | 0-127 |
| 144 | Polyphonic key pressure | 100 | 0-127 |
| 145 | After touch | 100 | 0-127 |
| 146 | Pitch Bend | 64 | 0-127 |
| 147 | Master Volume | 100 | 0-127 |
| 148 | Start (MTC) | - | - |
| 149 | Continue (MTC) | - | - |
| 150 | Stop (MTC) | - | - |
| 151 | Reset (MTC) | - | - |
| 152 | Program | 0 | 0-127 |
| 153 | Global Channel | 0 | 0-15 |
| 154 | Octave | 0 | -3~3 |
| 155 | Transpose | 0 | -12~12 |

| | | | |
|-----|----------------|-----|--------|
| 156 | Tempo | 100 | 20-250 |
| 157 | Keyboard Curve | 0 | 0-4 |
| 158 | Pedal A Curve | 64 | 1-127 |
| 159 | Pedal B Curve | 64 | 1-127 |

APPENDIX 3 LED STATUS LIST

| NO. | STATUS | DEFINITION |
|-----|--------|--|
| 1 | xxx | 3 Digit Display |
| 2 | xx | Upper Transpose Value |
| 3 | -xx | Lower Transpose Value |
| 4 | x | Upper Octave Value |
| 5 | -x | Lower Octave Value |
| 6 | CHO | (1) Under Assign Mode: indicate the controller to be assign. (2) Under Split Point Mode: indicate keyboard Split point. |
| 7 | ON/OFF | Certain function On/Off, or pedal polarity positive/negative. |
| 8 | don | Certain function done. |
| 9 | Err | Operation error. |
| 10 | SEu | Parameters upload. |
| 11 | SEd | Parameters download. |

APPENDIX 4 TECHNICAL SPECIFICATIONS

| NO. | ITEM | SPECIFICATIONS |
|-----|-------------------|--|
| 1 | Keyboard | KS25B: 25 Keys, C2-C4, Touch Response / Channel After Touch. KS49B: 49 Keys, C1-C5, Touch Response / Channel After Touch. KS61B: 61 Keys, C1-C6, Touch Response / Channel After Touch. |
| 2 | Function | MIDI Data: Program Select, Bank Select, Sequencer Control, MTC, Controller Change, GM, GS, XG System Reset and etc. Controllable Parameters: Transpose (incl. Octave Adjust), MIDI Transmit Channel, Velocity Curve Adjust, Keyboard Split Point and etc. |
| 3 | Panel & Indicator | 4 Assignable Knobs. 1 Knob Group Function Shift Button (incl. 2 Indicators.) 2 Assignable Numeric +/- Buttons (incl. 2 Indicators.) 1 Edit Button (incl. 1 Indicator.) |
| 4 | Display | 8 Segments, 3 Digits LED. |
| 5 | Input & Output | 1 MIDI Out. 1 USB Port. 1 Pedal Input. (KS25B) 2 Pedal Inputs. (KS49B/61B) 1 DC Input. 1 Power Switch. |
| 6 | Power Supply | 9V DC. USB Power |