



DD470X

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.

This appliance incorporates a replaceable fuse that can be accessed without opening the appliance cover. Disconnect the mains supply before attempting to replace the fuse, and replace with one of the same type and rating

This appliance must be earthed

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 odkáže 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 například noviny, kuchyňské utěrky, záclony apod.

Toto zařízení obsahuje vyměnitelnou pojistku, která je dostupná bez nutnosti otevření krytu. Odpojte hlavní zdroj napájení před pokusem o výměnu a vyměňte za stejný typ pojistky.

Toto zařízení musí být uzeměno.

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-udskiftelige 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.

Dette apparat indeholder en udskiftelig sikring, der kan skiftes uden at åbne apparatet. Afbryd strømmen, før du forsøger at udskifte sikringen, og udskift den med en af samme type og med samme værdier

Dette apparat skal have jordforbindelse

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.

Dit apparaat heeft een vervangbare zekering die kan worden vervangen zonder het apparaat te openen. Zorg ervoor dat u de stekker uit het stopcontact haalt voordat u de zekering vervangt.

Dit apparaat moet worden geaard.

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. Tuulestusta ei saa estää peittämällä laite esineillä, kuten sanomalehdillä, pöytäliinoilla, verhoilla jne.

Laitteessa on vaihdettava sulake johon pääsee käsiksi avaamalla laitteen kantta. Irrota verkkovirta ennen kun yrität vaihtaa sulakkeen ja korvaa sulake samanlaisella tyyppillä ja luokituksella
Laitteen on oltava maadotettu

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.

Cet appareil intègre un fusible remplaçable et accessible sans d'ouvrir le couvercle. Débrancher l'appareil du secteur avant d'entreprendre de remplacer le fusible, et remplacer le fusible avec un fusible de même type et de même valeur

Cet appareil doit être raccordé à une prise avec mise à la terre

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.

Dieses Gerät verfügt über eine auswechselbare Sicherung, die ohne Öffnen der Geräteabdeckung zugänglich ist. Trennen Sie den Netzstecker vom Stromnetz, bevor Sie die Sicherung ersetzen, und ersetzen Sie die Sicherung mit einer Sicherung der gleichen Art und Spezifikation.

Dieses Gerät muss geerdet sein.

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.

Questo prodotto contiene un fusibile sostituibile che può essere manovrato senza aprire il coperchio.

Assicurarsi di disconnettere tutte le fonti di energia prima di sostituire il fusibile, e sostituire il fusibile con uno uguale per tipo e voltaggio.

Questo prodotto deve essere appoggiato a terra.

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 reparasjon 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.

Dette apparatet har en utskiftbar sikring som kan nås uten å åpne dekslet på apparatet. Koble fra strømforsyningen før du prøver å bytte ut sikringen, og erstatt med samme type og verdi.

Dette apparatet bør plasseres på gulvet.

Stikkontakten brukes til å koble apparatet fra strømforsyningen. Forsikre deg om at stikkontakten er lett tilgjengelig og ta støpselet ut av stikkontakten 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 pokryw. 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 ekspozycyjny 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.

Urządzenie wyposażone jest w wymienny bezpiecznik, z dostępem bez potrzeby otwierania pokrywy. Przed próbą wymiany bezpiecznika, należy odłączyć urządzenie od prądu, a bezpiecznik powinien być tego samego typu.

Urządzenie musi być uziemione.

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

Este artigo contém um fusível que substituível ao qual pode aceder sem abrir a tampa. Desconecte o produto da corrente antes de aceder ao fusível e substitua-o por um do mesmo tipo.

Este artigo deve ser conectado a uma corrente eléctrica com conexão de fio terra

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 sľečným žiarením, nadmerným prашným 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.

Toto zariadenie obsahuje vymeniteľnú poistku, ktorá je dostupná bez nutnosti otvorenia krytu.

Odpojte hlavný zdroj napájania pred pokusom o výmenu a vymeňte za ten istý typ poistky.

Toto zariadenie musí byť uzemnené.

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 osobju

Ne postavljajte izdelka na lokacijo v bližini vira toplote, kot je radiator, ali na območje, ki je izpostavljen neposredni sončni svetlobi, pretiranem prahu, mehanskim tresljam ali udarcem. Izdelek ne sme biti izpostavljen kapljanju ali brizganju in nobeni predmeti, napojeni z vodo, kot so vazy, 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. Ventilacija se ne sme ovirati s prekrivanjem naprave s predmeti, kot so časopisi, prti, zavese itn.

Naprava vsebuje zamenljivo varovalko, do katere je možno dostopiti brez odpiranja pokrova naprave. Odklopite električno omrežje preden poskušate zamenjati varovalko, in jo nadomestite z eno iste vrste in jakosti

Ta naprava mora biti ozemljena

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 pritrdjena na tla/steno v skladu z navodili za namestitev.

¡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.

Este aparato contiene un fusible reemplazable al que puede acceder sin abrir la tapa. Desconecte el producto de la toma de corriente y reemplace el fusible por uno del mismo tipo y clasificación.

Este aparato debe estar conectado a una toma de corriente con conexión a tierra.

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."

WARNING! 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.

Denna produkt inkorporerar en utbytbar säkring som tillgänglig utan att öppna produktens lock.

Koppla bort strömförsöjningen innan ni försöker att byta ut säkringen med en av samma typ och klass.

Denna produkt bör ställas på marken.

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.

CONTENTS

CONTENTS (PADS)

1. Hi-hat Pad
2. Crash Cymbal Pad
3. Ride Cymbal Pad
4. Drum Module
5. Snare Drum Pad
6. Tom Drum Pad 1
7. Tom Drum Pad 2
8. Tom Drum Pad 3
9. Kick Drum Pad
10. Kick Drum Pedal
11. Hi-hat Control Pedal



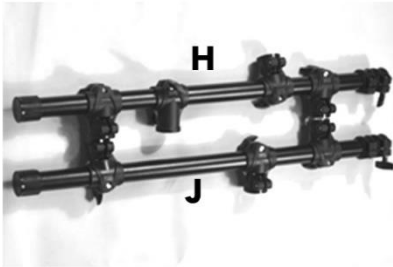
CONTENTS (FRAME)

- A. Tom 3 Support
- B. Main Frame Support (bottom)
- C. Hi-hat and Module Support
- D. Main Frame Support (top)
- E. Snare Arm
- F. Support Leg (right)
- G. Support Leg (left)
- H. Main Frame Leg (left)
- J. Main Frame Leg (right)
- K. Cymbal Arms x 3
- L. Pad Arms x 4

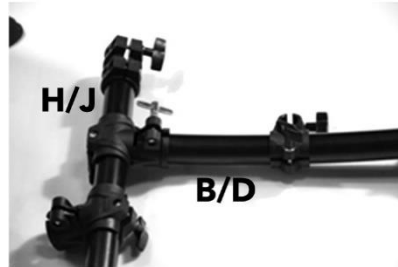


FRAME ASSEMBLY

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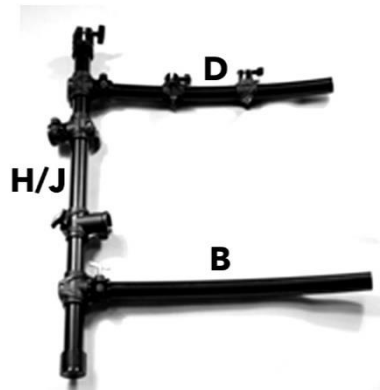
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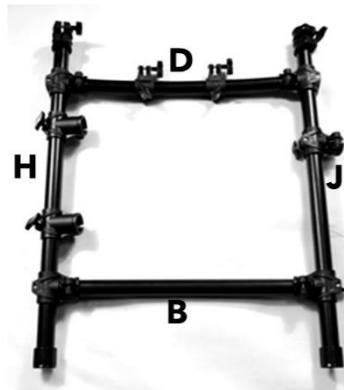
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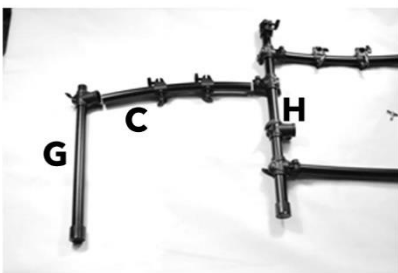
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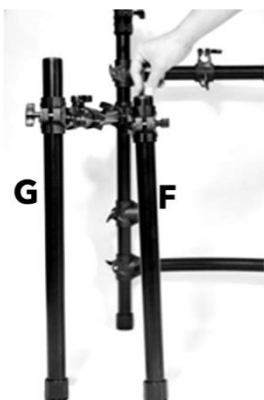
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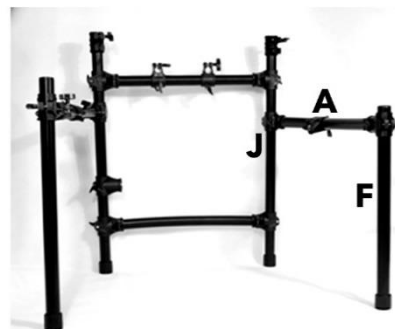
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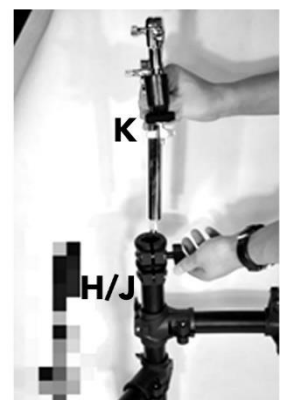
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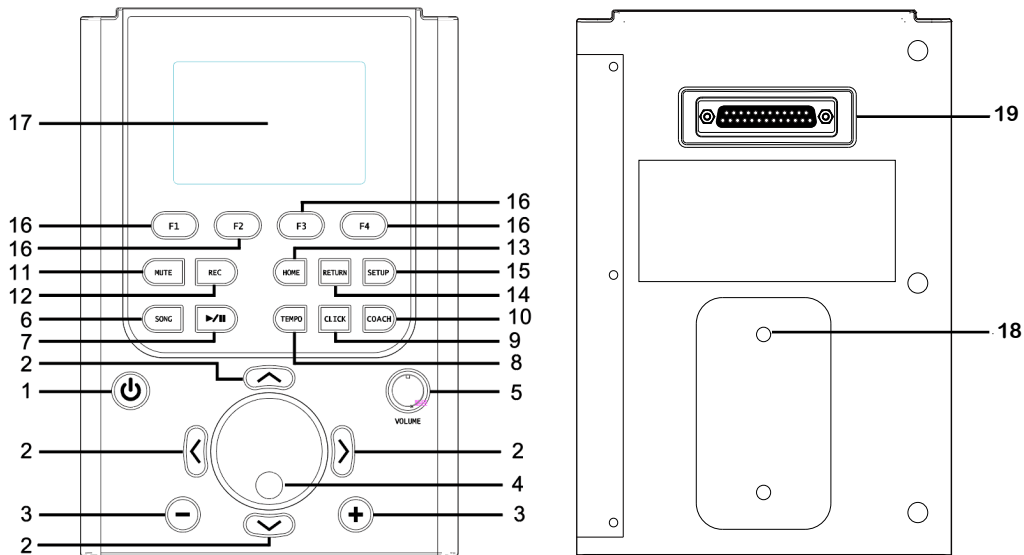
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1.Introduction

1.1 DD470X Components

1.1.1 Top and rear panels



1.Power button

Turns the power on/off.

2.Cursor buttons (< >▲▼)

Use these buttons to move the cursor on the screen.

3.[+]button, [-]button

Use these buttons to switch drum kits or to edit a value.

Pressing the "+" button increases the value, and pressing the "-" button decreases it.

4.Rotary

This rotary has the same function as the "+" and "-" buttons. Use the rotary when you want to quickly change the drum kit or value in large steps.

5.VOLUME knob

Adjusts the volume from the Line Output and PHONES jacks.

6.SONG button

Press this to play back a song or access the song-related settings.

7.Play/Pause button

Press to play back or stop a song.

8.TEMPO button

Press this to edit parameters related to tempo, click, and MIDI-speed.

9.CLICK button

Turns the metronome on/off.

10.COACH button

This activates the Coach function, allowing you to view your timing on the screen.

11.MUTE button

When a song is playing back, use this button to mute the drum part.

12.REC button

Use this to record your playing.

13.HOME button

Press this to access the basic KIT screen.

14.RETURN button

Press this to save the current settings and return to last view.

15.SETUP button

Use this to adjust settings such as MIDI, triggering and pad sensitivity.

16.F1-F4 button(function buttons)

The functions of these buttons will change depending on the screen that is displayed.

17.Screen

This shows the drum kit name in playing mode, or other information displays will appear.

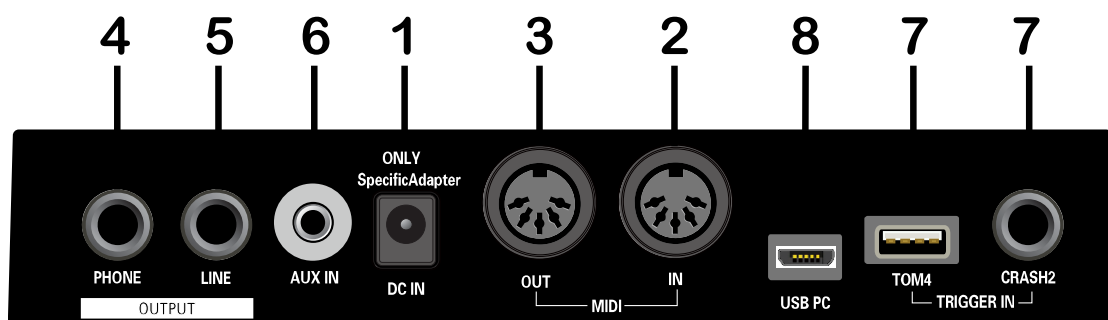
18. Sound module mounting holes

Attach the sound module mounting plate here.

19.Trigger Input connector

Connecting the special cable connects the pads and pedals to the DD470X.

1.1.2 Jack panel



1.DC IN jack

Connect the included power adapter here.

2.MIDI IN connector

Use this for triggering sounds in the DD470X via a MIDI sequencer.

3.MIDI OUT connector

Use this when you want to use the pads to play external MIDI sound sources.

4.PHONE OUTPUT jack

Use for connecting stereo headphones.

5.LINE OUTPUT jack

Use for connecting to an amp or other external audio equipment.

6.AUX IN jack

Use for connecting an external audio source such as MP3 or CD players.

7.TRIGGER IN jack (TOM4, CRASH2)

Use these jacks to add more pads. (The TOM4 jack can only be connected with specific pad, otherwise it will cause damage to the device.)

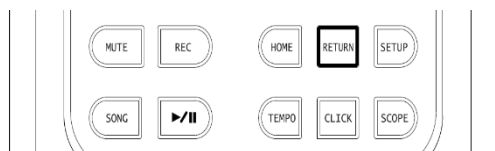
8.USB jack

For use as MIDI device to connect PC.

1.2 Basic concepts and

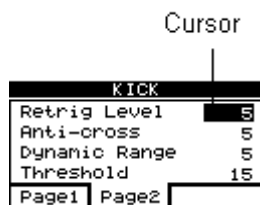
operations

1.2.1 Save your settings



Any changed you make will be saved by pressing the "RETURN" button.

1.2.2 Cursor



The cursor is the highlighted text in the screen that indicates what you can edit.

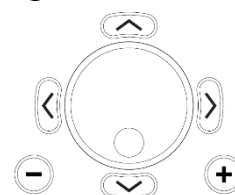
If there is more than one editable item in a screen, you can use the cursor buttons to move the cursor to the item you want to edit.

1.2.3 Function button (F1-F4)



The F1-F4 buttons are called "function buttons". The bottom line of the display indicates the name of the functions performed by F1-F4.

1.2.4 Using the "[+][-]" and "Rotary"



The "[+][-]" and "Rotary" buttons are both used to edit settings.

- "[+][-]"
 1. The value of the setting will increase each time you press "+", and decrease each time you press "-".

- 2. When making an on/off setting, press "+" to turn it on or press "-" to turn it off.

- **"Rotary"**

This rotary lets you make large changes in a value easily.

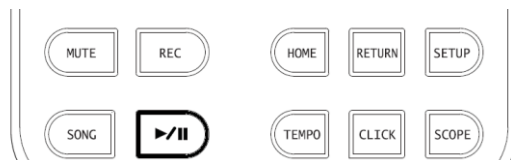
1.2.5 Song playback



- When you press "SONG", the "Song" screen appears. You can select a song using the "+/-" buttons or turning the "Rotary"

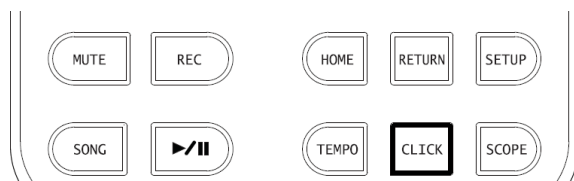


- Press "Play/Pause" to play back the song.



- Press again "Play/Pause" to stop it.

1.2.6 Using the Metronome

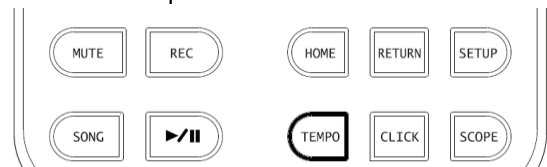


- To start the metronome, press "CLICK".

- To turn it off, press "CLICK" once again.

1.2.7 Setting the Tempo (for the metronome or song)

- To adjust the tempo, press "Tempo" button.



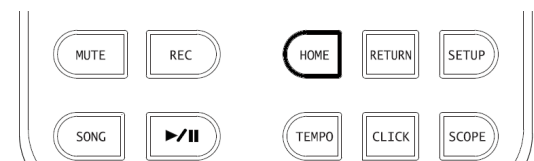
- The tempo setting screen.



- Use the "+/-" buttons or "Rotary" to set the tempo.

1.2.8 Selecting an instrument

- Press "HOME" button.



- The main screen



- Press "[F2]/INST" button, the drum instrument list screen.



- In the screen where you make adjustments for each pad, hitting any pad or pedal will access the edit screen for that pad or pedal. The "HEAD" or "RIM" indicator tells you

whether the settings are for the head or the rim of that pad.

1.3 Getting ready to play

1.3.1 Turning the power on

1. Turn "VOLUME KNOB" all the way to the left.
2. Do the same with the connected amp or audio system.
3. Press "POWER" button.
4. Power on the connected amp or audio system.
5. While hitting a pad, gradually turn "VOLUME" toward the right to adjust the volume.

Tip

- ❖ After you turn on the power, do NOT touch any pads or pedals until the home screen appears.

1.3.2 Turning the power off

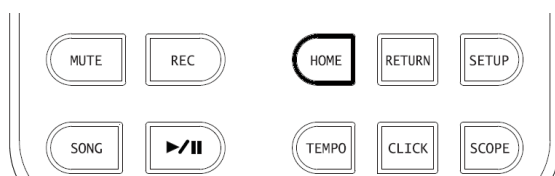
1. Turn the volume down on the DD470X and any connected equipment.
2. Hold down "Power" button until the screen indicates "POWER OFF".
3. Release "Power" button.

2.Performing

2.1Selecting a drum kit

2.1.1 Select a drum kit

- Press "HOME" button.

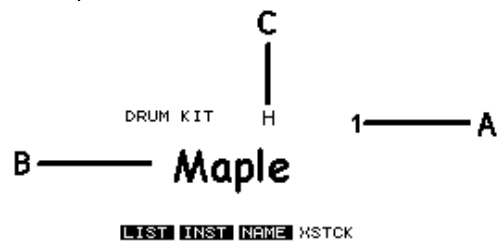


- The screen will display "Drum Kit"



2.1.2 About the "Drum Kit" screen

- This is the DD470X's basic screen; it appears when you press "HOME" button.



A	Drum kit number
B	Drum kit name
C	Indicates "H, T1, S" for Head shot or "R" for Rim Shot.

- Use "+/-" or turn "Rotary" to select a drum kit.

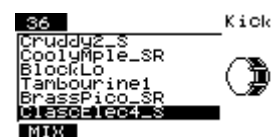
2.2 Creating a drum kit

All sounds assigned to a drum kit can be edited for your specific purposes.

2.2.1 Selecting an instrument

On the DD470X, all sounds are referred to as "instrument".

1. Press "HOME"-[F2] (INST) ,The "INST" screen appears.



2. Hit the desired pad or use CURSOR [<] [>] to select a pad.
3. Use CURSOR [^] [v] to move the cursor to instrument.
4. Press "RETURN" button to save the setting and return to "Drum Kit" screen.

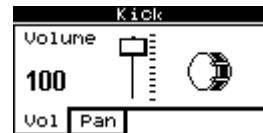
2.2.2 Using the Mixer

Adjusting the volume and pan (stereo position) of individual pads/pedals.

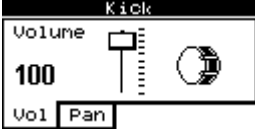
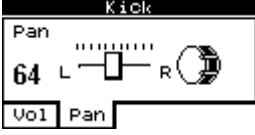
1. Press "HOME"-[F2] (INST) ,The "INST" screen appears.



2. Press [F1] (MIX)



3. Press [F1]-[F2] to select the item you want to edit.

Screen	Parameter	Value	Description
	[F1] (VOL)	0-127	Volume of each pad
	[F2] (PAN)	0-127	Pan position of each pad

4. Use "+/-" or "Rotary" to edit the value.
5. Press "RETURN" button to save the setting and return to the "INST" screen.

2. Press [F4] (NEW) ,The "NEW" screen appears.



2.2.3 Naming a drum kit

You can create a name of up to ten characters for each drum kit.

1. Press "HOME"-[F1] (LIST) ,The "LIST" screen appears.



3. Use CURSOR or "Rotary" to move the cursor to the character that you want to edit.
4. Using "[F2]-[F4]" button to change the character.

Function	Explanation
[F2] (ENTER)	Enters the character of the cursor location to drum kit name.
[F3] (<--)	Deletes the character or the cursor location, and moves subsequent characters one place to the left.
[F4] (SAVE)	Save the drum kit name.

3. Playing along with music

3.1 Playing with the internal

songs

3.1.1 Song Function profile

- The internal songs consist of "drum", "piano", "bass" and "others" parts.
- Each part can be muted individually.
- The tempo for these songs can also be adjusted.

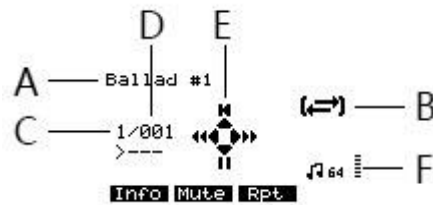
3.1.2 Song selection

1. Press "SONG" button, the "Song" screen appears.



2. Use "+/-" or "Rotary" to select a song.

What's in "Song" screen:



	Song name
A	Indicates the name of the currently selected song.
B	Song playback type
C	Measure number; When you press "Play/Pause", playback begins from the measure shown here.
D	Beat
E	[Cursor] functions (refer to 3.1.3)
F	Song volume

3.1.3 Playing a song

1. Use [<] [>] to select the song you want to play.
2. Use "+/-" or "Rotary" to change the volume.
3. Press "Play/Pause" button, the song will begin playing.
4. Press "Play/Pause" again, stop playback song.

[Cursor] functions

Button	Display	Function
[λ]	⏮	Returns to the beginning of the song.
[v]	⏸	Pauses the song playback. Press again to resume playback from where you paused.

[<]	⏮	Advances to the next song.
[>]	⏭	Returns to the previous song.

3.1.4 Setting the tempo

1. Press "TEMPO" button, the "TEMPO" screen appears.



2. Use "+/-" or "Rotary" to adjust the tempo.

3.1.5 Muting the drum part

You can mute the playback of a specific part in a song.

1. Press "SONG"-[F2] (Mute) ,the "MUTE" screen appears.



2. Press [F1]-[F3] to mute on/off for each part. Muting will turn on/off each time you press the button.
3. Press "RETURN" button, save the setting and return to "Song" screen.

Tip

- ❖ Each time you press "MUTE", the drum part will be muted or unmuted.

3.1.6 Viewing song information/Editing song settings

1. Press "SONG"-[F1] (Info) , The "Information" screen appears.

```
Name      80's Rock
Length    14368
Time Signature  4/4
Tempo     150
```

Vol

Song Information

3.1.7 Using the Repeat function (Repeat)

This function allows you to select a specific section of a song and have it repeat.

1. Select the song that you want to play, and press "Play/Pause". The song will begin playing.
2. To mark the beginning of the section you want to repeat, press [F3] (Rpt) .
3. At the end of the section you want to repeat, press [F3] (Rpt) .
4. To cancel the Repeat function, press [F3] (Rpt) once again.

Tip

- ❖ The minimum repeat length is 1 measure.

3.2 Using the AUX IN

By connecting a portable audio/CD player to the AUX IN jack you can play the DD470X with your favorite songs.

3.2.1 Connections

- Before making connections, please lower the volume of

Parameter	Description
Name	Song name
Length	Number of bytes
Time Signature	Time signature

DD470X.

- If a connection cable has build-in resistors, the volume level of the source connected to the DD470X(AUX IN) may be lower.

3.2.2 Playback

1. Start the music on your portable audio player.
 2. Adjust the volume.
- Sounds received on the AUX IN are output to the LINE OUTPUT and HEADPHONE OUTPUT jack.
 - Adjust the volume on the audio player to get the right balance between it and the DD470X.

4. Practicing

4.1 On Board Metronome

Practicing with the built in metronome will help you perfect your tempo skills.

4.1.1 Using the metronome

1. Press the "CLICK" button, the metronome starts.
2. Press the "CLICK" button again to stop it.

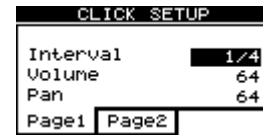
4.1.2 Metronome parameters

You can change the tempo, sound and time signature of the metronome.

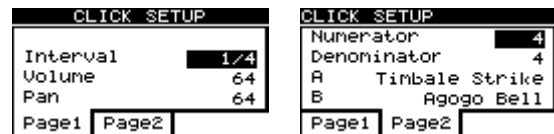
1. Press "TEMPO" button, the "TEMPO" screen appears.



2. Press [F1] (SETUP) ,the "CLICK SETUP" screen appears.



3. Press [F1] (Page1) or [F2] (Page2) to choose the page containing the parameter you want to change.



4. Use CURSOR [L][V] to select a parameter.
5. Use the "+/-" or "Rotary" to edit the value.
6. Press "RETURN" button to save the setting and return to the "TEMPO" screen, or just press [HOME].

a. Changing the tempo (Tempo)

1. Press "TEMPO" button, the "TEMPO" screen appears.



2. Use "+/-" or "Rotary" to edit the value.

3. : Value: 20-240

b. Changing the metronomes sound (CLICK INST)

Parameter	Value	Description
Interval	1/2 (half note)	Click interval
	3/8 (clotted quarter note)	
	1/4 (quarter note)	
	1/8 (eighth note)	
	1/12 (eighth note triplets)	
	1/16 (16 th note)	
Volume	0-127	Volume of the metronome sound
Pan	0-127	Panning of the sound
Numerator	0-32	Metronome's time signature
Denominator	1, 2, 4, 8, 16, 32, 64	
Instrument A	Instruments	All drum kit sound instruments
Instrument B		

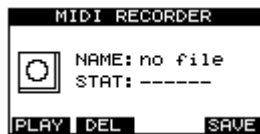
4.2 Recording and playback

(REC/PLAY)



4.2.1 Recording

1. Press "REC", the "MIDI RECORDER" screen will appear.



2. Press "REC" button again, the "Recording" screen appears.



3. Hit any pad/pedal and recording begins.
4. To stop recording, Press "REC" button. The "Record Finish" screen appears.

Tip

- ❖ If you exceed the maximum recording number (5000 times hit, recording stops automatically.
- ❖ Previously recorded data will be erased when a new recording starts.
- ❖ The previously recorded data will be erased when leave the "MIDI RECORDER" screen without saving action.

4.2.2 Save recorded data

1. When recording finished, press[F4] (SAVE) , the "SAVE" screen appears.



2. Use CURSOR move cursor to the desired character.
3. Use function button "[F2] -[F4]"

Function Key	Description
[F2] (Enter)	Enter the desired character
[F3] (<--)	Delete the last character
[F4] (Save)	Save the recorded data

4.2.3 Playback

1. Press "REC" button, the "MIDI RECORDER" screen appears.



2. Use "+/-" or "Rotary" to select the recorded data.
3. Press "F1[PLAY]" to playback.
4. When playback has ended, the "Play Finish" screen appears.



Tip

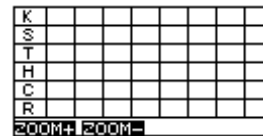
- ❖ If MUTE function is effect, you can't playback the recorded data.

4.3 Using the Coach function

(COACH)

The Coach function provides an on-screen view of the timing of your drumming.

1. Press "COACH" button, the "COACH" screen appears.



2. Play the pads, your timing will be showing the display.

- [F1] (ZOOM+) button. Each time you press this button, the display of will be magnified by one beat. This lets you view one beat in greater detail.
- [F2] (ZOOM-) button. Each time you press this button, the viewing area will expand. This lets you view more beats at once.

5. Advanced applications

5.1 Optimizing the pad

settings

1. Press "SETUP", the "SETUP" screen appears.




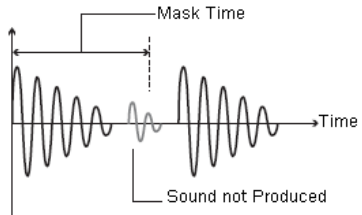
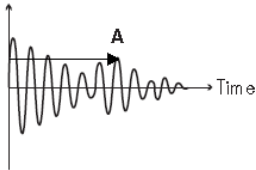
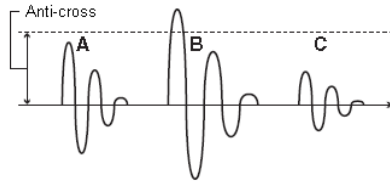
2. Press [F1] (Trig) , the "Trig" screen appears.
3. Press [F1] (Page 1)-[F2] (Page 2) to choose the item that you want to edit.

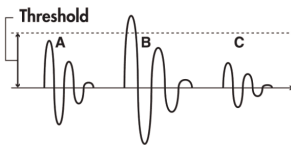
4. Use CURSOR to select a parameter.
5. Use "+/-" or "Rotary" to edit the value of the parameter.

6. Press "RETURN" button to save the setting, and return to the "SETUP" screen.

[F1] (Page1) 、 [F2] (Page2) Trigger Parameter Description:

Screen	Parameter	Value	Description
[F1] (Page1) 	Type	Kick Snare Tom 1-4 Hi-hat Crash 1-2 Ride Bell	The trigger type is a collection of parameters optimized for specific models of pad.
	Sensibility	1-32	<ul style="list-style-type: none"> ✓ You can adjust the sensitivity of the pads to accommodate your personal playing style. ✓ This allows you to have more dynamic control over the sound volume, based on how hard you play. ✓ Lower sensitivity will keep the pad producing a low volume even when played forcefully.
	Curve	Linear Log Exp	<ul style="list-style-type: none"> ✓ This setting allows you to control the relation between playing velocity (striking force) and changes in volume. ✓ Linear type is the default type.
	Mask Time	1-32 (level)	<ul style="list-style-type: none"> ✓ This setting prevents double triggering. ✓ When playing a trigger(specially kick trigger), the beater can bounce back and hit the head a second time immediately after the intended note-with acoustic drums sometimes the beater stays against the head-this causes a single hit to "double trigger"(two sounds instead of one). The Mask Time setting helps to prevent this. Once a pad has been hit, any additional trigger signals occurring within the specified "Mask Time" will be ignored. ✓ When set to high value, it will be difficult to play very quickly. Set this to as low a value as you can.

			 <p>Mask Time</p> <p>Time</p> <p>Sound not Produced</p> <ul style="list-style-type: none"> ✓ If two or more sounds are being produced when you strike the head just once, then adjust Retrig Level. 												
<p>[F2] (Page2)</p> <table border="1" data-bbox="231 1276 438 1388"> <tr><td colspan="2">KICK</td></tr> <tr><td>Retrig Level</td><td>5</td></tr> <tr><td>Anti-cross</td><td>5</td></tr> <tr><td>Dynamic Range</td><td>5</td></tr> <tr><td>Threshold</td><td>15</td></tr> <tr><td>Page1</td><td>Page2</td></tr> </table>	KICK		Retrig Level	5	Anti-cross	5	Dynamic Range	5	Threshold	15	Page1	Page2	<p>Retrig Level</p>	<p>1-10</p>	<ul style="list-style-type: none"> ✓ This setting prevents spurious re-triggering. ✓ Important if you are using acoustic drum triggers. Such triggers can produce altered waveforms, which may also cause inadvertent sounding at Point A in the following figure (Re-trigger). This occurs in particular at the decaying edge of the waveform. Re-trigger Level detects such distortion in and prevents re-triggering from occurring.  <p>Time</p> <ul style="list-style-type: none"> ✓ When set to high value, it will be difficult to play very quickly.
	KICK														
	Retrig Level	5													
Anti-cross	5														
Dynamic Range	5														
Threshold	15														
Page1	Page2														
<p>Anti-cross</p>	<p>1-10</p>	<ul style="list-style-type: none"> ✓ This setting allows a trigger signal to be received only when the pad is above a determined dynamic level (velocity). This can be used to prevent a pad from sounding because of vibrations from other pad. In the following example, B will sound but A and C will not sound. When set to a higher value, no sound is produced when the pad is struck lightly. Gradually raise the "Anti-cross" value while striking the pad. Check this and adjust accordingly. Repeat this process until you get the perfect setting for your playing style.  <p>Anti-cross</p> <p>A B C</p>													
<p>Dynamic Range</p>	<p>1-10</p>	<ul style="list-style-type: none"> ✓ This setting allows a trigger signal to be received range between peak value with minimum value. ✓ When set to higher value, it will be larger range for the trigger signal. 													

	Threshold	1-32	<ul style="list-style-type: none"> ✓ This setting is to adjust the allowed min. striking force for generating sounds. ✓ When set to higher value, there is no sound for slight hit. 
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Tip

❖ You can change to default trigger settings that are specified when you execute a Factory Reset. For details, refer to p.13.

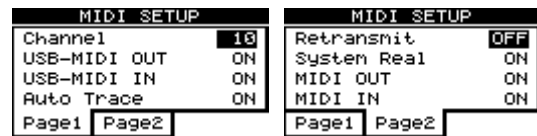
5.2 MIDI-related settings

1. Press "SETUP" button, the "Setup" screen appears.




2. Press "[F2] (MIDI) ", the "MIDI SETUP" screen appears.


3. Press "[F1] (page1) " or "[F2] (page2) ", choose the item that you want to edit.



4. Use "+/-" or "Rotary" to edit the parameter.
5. Press "RETURN" button to save the setting and return to "Setup" screen.

[F1] (Page1) 、 [F2] (Page2) MIDI Parameter Description:

SCREEN	Parameter	Value	Description
[F1] (Page1) 	Channel	0-15	MIDI channel number for transfer
	USB-MIDI OUT	ON、 OFF	<ul style="list-style-type: none"> ✓ This setting allows DD470X be used as a USB-MIDI device. Specifies whether MIDI message will be transmitted to an external MIDI device (ON) or not transmitted (OFF). ✓ Default value is ON.
	USB-MIDI IN	ON、 OFF	<ul style="list-style-type: none"> ✓ Specifies whether MIDI message sent from an external MIDI device will be received(ON) or not received(OFF). ✓ Default value is ON.
	Auto Trace	ON、 OFF	<ul style="list-style-type: none"> ✓ Turns the Note Chase on/off. ✓ This is convenient during the editing process. Received MIDI data will automatically call up the settings screen for the relative instrument/pad, ad automatically moves the cursor. ✓ Default value is ON.

<p>[F2] (Page2)</p> 	RETRANSMIT	ON, OFF	<ul style="list-style-type: none"> ✓ This setting will allows the data from/to USB jack retransmit to/from MIDI jack. ✓ Default value is OFF.
	System Real	ON	MIDI device information output
	MIDI OUT	ON, OFF	<ul style="list-style-type: none"> ✓ Specifies whether MIDI messages will be transmitted to an external MIDI device (ON) or not transmitted (OFF). ✓ Default value is ON.
	MIDI IN	ON, OFF	<ul style="list-style-type: none"> ✓ Specifies whether MIDI messages sent from an external MIDI device will received (ON) or not received (OFF). ✓ Default value is ON.

5.3 Other settings (Utility)

5.3.1 Adjusting the display contrast(LCD Contrast)

1. Press "SETUP" button, the "SETUP" screen appears.



2. Press "[F3] (Util) ", the "UTILITY" screen appears.



3. Press[F1] (CTRL) , the "CONTROL" screen appears.

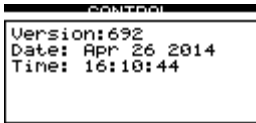


4. Use "+/-" or "Rotary" to edit value.
5. Press "Return" button to save setting and return to "UTILITY" screen.

Tip

- [F1] (Information)

Current firmware version



5.3.2 Restoring the factory settings

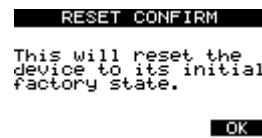
1. Press "SETUP", the "SETUP" screen appears.



2. Press "[F3] (Util) ", the "UTILITY" screen appears.



3. Press[F2] (RESET) ,the "RESET CONFIRM" screen appears.



4. Press[F4] (OK) ,the restoring action will be done.
5. When the factory reset is finished, the screen will return to the "HOME" screen.

