

YAMAHA

DIGITAL

DRUM *Pro*
DD-50

**Owner's Manual
Bedienungsanleitung
Mode d'emploi
Manual de instrucciones**

ENGLISH

DEUTSCH

FRANÇAIS

ESPAÑOL

SPECIAL MESSAGE SECTION

This product utilizes batteries or an external power supply (adaptor). DO NOT connect this product to any power supply or adaptor other than one described in the manual, on the name plate, or specifically recommended by Yamaha.

This product should be used only with the components supplied or; a cart, rack, or stand that is recommended by Yamaha. If a cart, etc., is used, please observe all safety markings and instructions that accompany the accessory product.

SPECIFICATIONS SUBJECT TO CHANGE:

The information contained in this manual is believed to be correct at the time of printing. However, Yamaha reserves the right to change or modify any of the specifications without notice or obligation to update existing units.

This product, either alone or in combination with an amplifier and headphones or speaker/s, may be capable of producing sound levels that could cause permanent hearing loss. DO NOT operate for long periods of time at a high volume level or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should consult an audiologist. IMPORTANT: The louder the sound, the shorter the time period before damage occurs.

NOTICE:

Service charges incurred due to a lack of knowledge relating to how a function or effect works (when the unit is operating as designed) are not covered by the manufacturer's warranty, and are therefore the owners responsibility. Please study this manual carefully and consult your dealer before requesting service.

ENVIRONMENTAL ISSUES:

Yamaha strives to produce products that are both user safe and environmentally friendly. We sincerely believe that our products and the production methods used to produce them, meet these goals. In keeping with both the letter and the spirit of the law, we want you to be aware of the following:

Battery Notice:

This product MAY contain a small non-rechargeable battery which (if applicable) is soldered in place. The average life span of this type of battery is approximately five years. When replacement becomes necessary, contact a qualified service representative to perform the replacement.

This product may also use "household" type batteries. Some of these may be rechargeable. Make sure that the battery being charged is a rechargeable type and that the charger is intended for the battery being charged.

When installing batteries, do not mix batteries with new, or with batteries of a different type. Batteries MUST be installed correctly. Mismatches or incorrect installation may result in overheating and battery case rupture.

Warning:

Do not attempt to disassemble, or incinerate any battery. Keep all batteries away from children. Dispose of used batteries promptly and as regulated by the laws in your area. Note: Check with any retailer of household type batteries in your area for battery disposal information.

Disposal Notice:

Should this product become damaged beyond repair, or for some reason its useful life is considered to be at an end, please observe all local, state, and federal regulations that relate to the disposal of products that contain lead, batteries, plastics, etc. If your dealer is unable to assist you, please contact Yamaha directly.

NAME PLATE LOCATION:

The name plate is located on the bottom of the product. The model number, serial number, power requirements, etc., are located on this plate. You should record the model number, serial number, and the date of purchase in the spaces provided below and retain this manual as a permanent record of your purchase.

Model _____

Serial No. _____

Purchase Date _____

PLEASE KEEP THIS MANUAL

92-BP

FCC INFORMATION (U.S.A.)

IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT!

This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Yamaha may void your authority, granted by the FCC, to use the product.

IMPORTANT:

When connecting this product to accessories and/or another product use only high quality shielded cables. Cable/s supplied with this product MUST be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the USA.

NOTE:

This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class "B" digital devices. Compliance with these requirements provides a reasonable level of assurance that your use of this product in a residential environment will not result in harmful interference with other electronic devices. This equipment generates/uses radio frequencies and, if not installed and used according to the instructions found in the users manual, may cause interference harmful to the operation of other electronic devices.

Compliance with FCC regulations does not guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the unit "OFF" and "ON", please try to eliminate the problem by using one of the following measures:

- Relocate either this product or the device that is being affected by the interference.
- Utilize power outlets that are on different branch (circuit breaker or fuse) circuits or install AC line filter/s.
- In the case of radio or TV interference, relocate/reorient the antenna. If the antenna lead-in is 300 ohm ribbon lead, change the lead-in to coaxial type cable.

If these corrective measures do not produce satisfactory results, please contact the local retailer authorized to distribute this type of product. If you can not locate the appropriate retailer, please contact Yamaha Corporation of America, Electronic Service Division, 6600 Orangethorpe Ave, Buena Park, CA90620

- This applies only to products distributed by Yamaha Corporation of America.

The serial number of this product may be found on the bottom of the unit. You should note this serial number in the space provided below and retain this manual as a permanent record of your purchase to aid identification in the event of theft.

Model No. DD-50

Serial No. _____

Entsorgung leerer Batterien (nur innerhalb Deutschlands)

Leisten Sie einen Beitrag zum Umweltschutz. Verbrauchte Batterien oder Akkumulatoren dürfen nicht in den Hausmüll. Sie können bei einer Sammelstelle für Altbatterien bzw. Sondermüll abgegeben werden. Informieren Sie sich bei Ihrer Kommune.

..... Congratulations!

Thank you for purchasing the Yamaha DD-50. The DD-50 has been developed to act and play like a drum set but with greater ease. Before you use the instrument, we recommend you to read through this manual.

..... Taking Care of Your DD-50

Your DD-50 will give you years of playing pleasure if you follow the simple rules given below:

■ Location

Do not expose the instrument to the following conditions to avoid deformation, discoloration, or more serious damage.

- Direct sunlight (e.g. near a window).
- High temperatures (e.g. near a heat source, outside, or in a car during the daytime).
- Excessive humidity.
- Excessive dust.
- Strong vibration.

■ Power Supply

- Turn the power switch OFF when the instrument is not in use.
- An AC adaptor, if used (the DD-50 runs from either batteries or an optional AC adaptor), should be unplugged from the AC outlet if the instrument is not to be used for an extended period of time.
- Unplug the AC adaptor during electric storms.
- Avoid plugging the AC adaptor into the same AC outlet as appliances with high power consumption, such as electric heaters or ovens. Also avoid using multi-plug adaptors since these can result in reduced sound quality, operation errors, and possibly damage.

■ Turn Power OFF When Making Connections

- To avoid damage to the instrument and other devices to which it is connected, turn the power switches of all related devices OFF prior to connecting or disconnecting cables.

■ Handling and Transport

- Never apply excessive force to the controls, connectors or other parts of the instrument.

- Always unplug cables by gripping the plug firmly, not by pulling on the cable.
- Disconnect all cables before moving the instrument.
- Physical shocks caused by dropping, bumping, or placing heavy objects on the instrument can result in scratches and more serious damage.

■ Cleaning

- Clean the cabinet and panel with a dry soft cloth.
- A slightly damp cloth may be used to remove stubborn grime and dirt.
- Never use cleaners such as alcohol or thinner.
- Avoid placing vinyl objects on top of the instrument (vinyl can stick to and discolor the surface).

■ Electrical Interference

- This instrument contains digital circuitry and may cause interference if placed too close to radio or television receivers. If this occurs, move the instrument further away from the affected equipment.

■ Data Backup

- Custom data and some settings (see page 21) will be retained in memory even if the power switch is turned OFF as long as an AC power adaptor is connected or batteries are installed.

■ Service and Modification

- The DD-50 contains no user serviceable parts. Opening it or tampering with it in anyway can lead to irreparable damage and possibly electric shock. Refer all servicing to qualified YAMAHA personnel.

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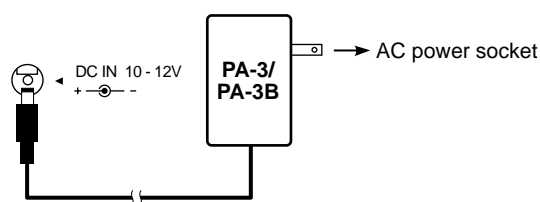
Setting up the DD-50

Power Supply

Your DD-50 will run either from batteries or an optional power adaptor. Follow the instructions below according to the power source you intend to use.

Using an AC-Adaptor (sold separately)

Connect the optional power adaptor (Yamaha PA-3 or PA-3B) to the **DC IN 10-12V** jack located on the unit's left side panel, and plug the AC power adaptor into an AC power outlet.



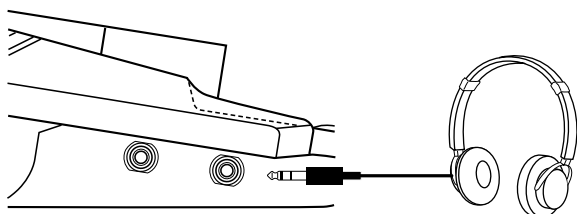
CAUTION

• Do not attempt to use an AC adaptor other than the PA-3 or PA-3B. Use of an incompatible adaptor may result in the instrument becoming hot or, irreparable damage to the DD-50. It may also result in fire. If the instrument is damaged due to use of an incompatible adaptor, YAMAHA is not responsible for the damage.

When Using Headphones (About the PHONES/AUX OUT Jack)

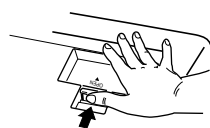
An optional set of stereo headphones (such as the Yamaha HPE-150 or HPE-3) can be connected to the PHONES/AUX OUT jack located on the side panel. When a pair of headphones is connected to the jack, the DD-50's internal speakers will switch off automatically, perfect for private practice or late night playing. If you want to use an external sound system, the headphone jack can also be used to connect the DD-50 to a stereo system or mixing console. (Use a standard plug ↔ pin plug adaptor to connect the DD-50 to a stereo system.)

* Turn the power OFF on all equipment before making any connections.

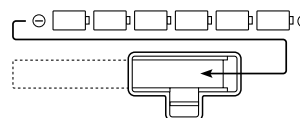


Installing Batteries

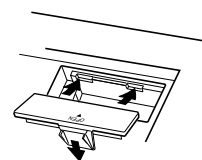
- 1 Open the battery compartment cover on the underside of the DD-50.



- 2 Insert six "C" size, R14, SUM-2 or equivalent batteries. When inserting the batteries, be careful to follow the polarity markings in the illustration.



- 3 Close the battery compartment cover securely.



NOTES

• Power will be automatically drawn from the AC adaptor if an optional AC adaptor is connected while batteries are installed in the instrument.

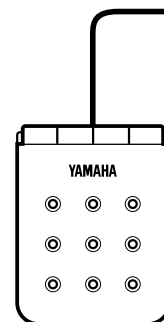
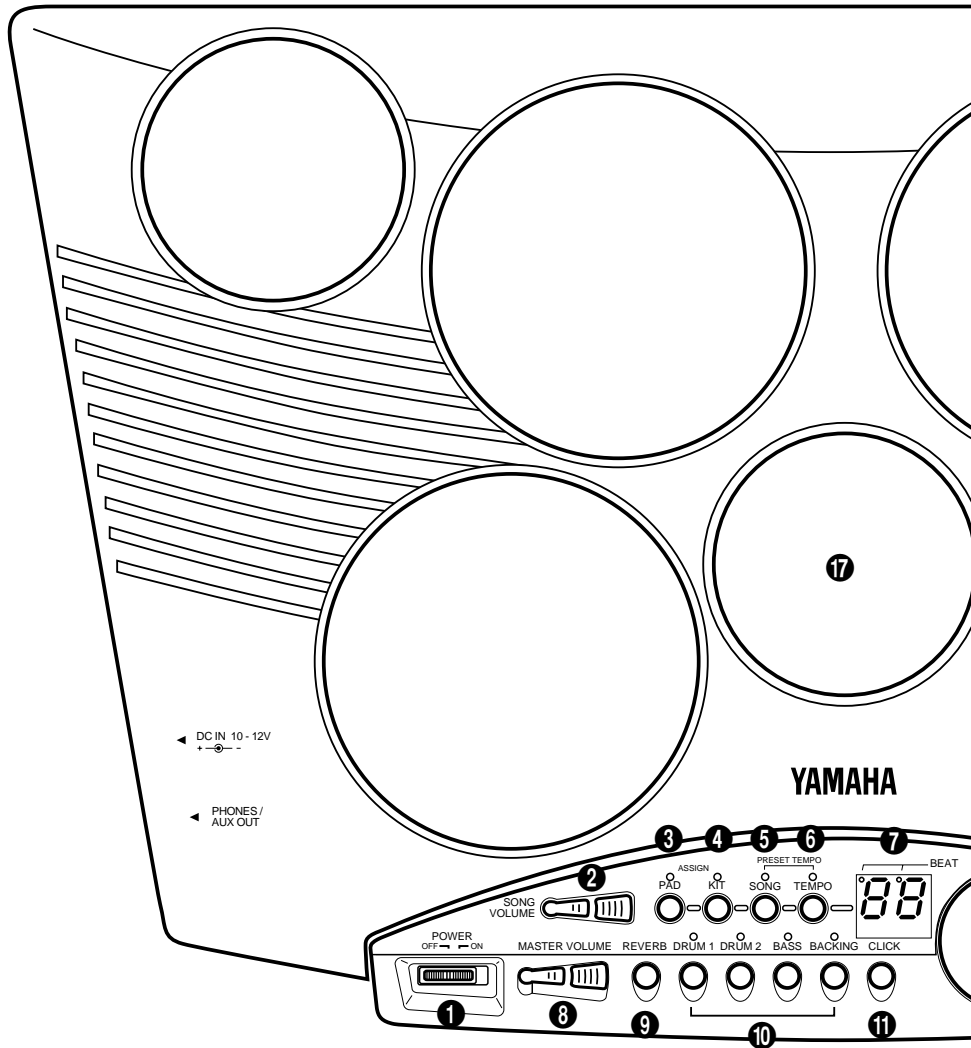
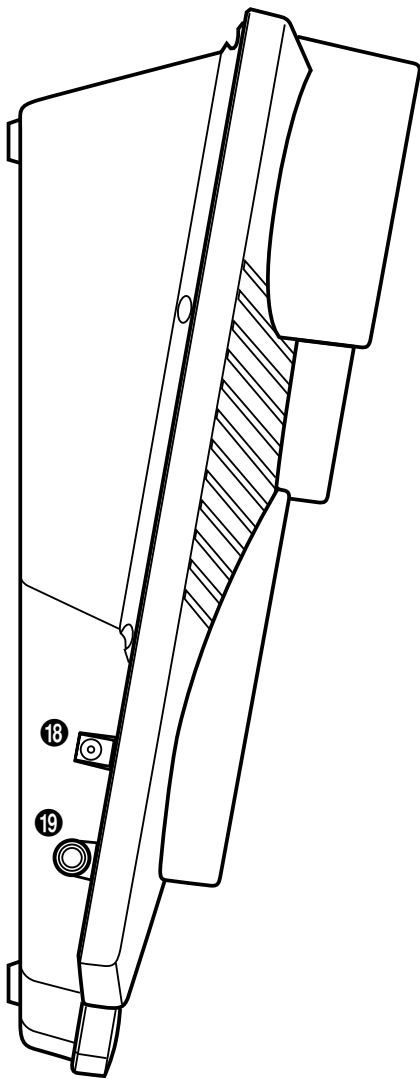
CAUTION

• It is recommended that you replace worn batteries as soon as possible. When battery voltage drops, the DD-50's display will dim and/or the sound will become distorted. When this occurs, replace the batteries with a complete set of six new batteries of the same type.

• NEVER mix old and new batteries, different types of batteries (alkaline, magnesium, etc.), batteries by different makers, or batteries from the same maker but of different types. Misuse may cause the instrument to become hot, result in fire, or battery leakage.

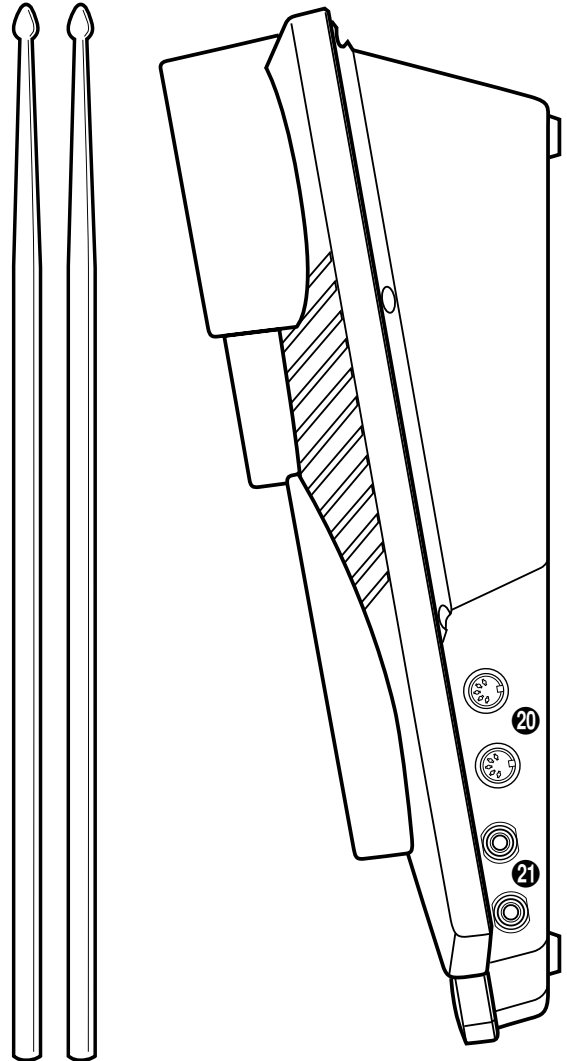
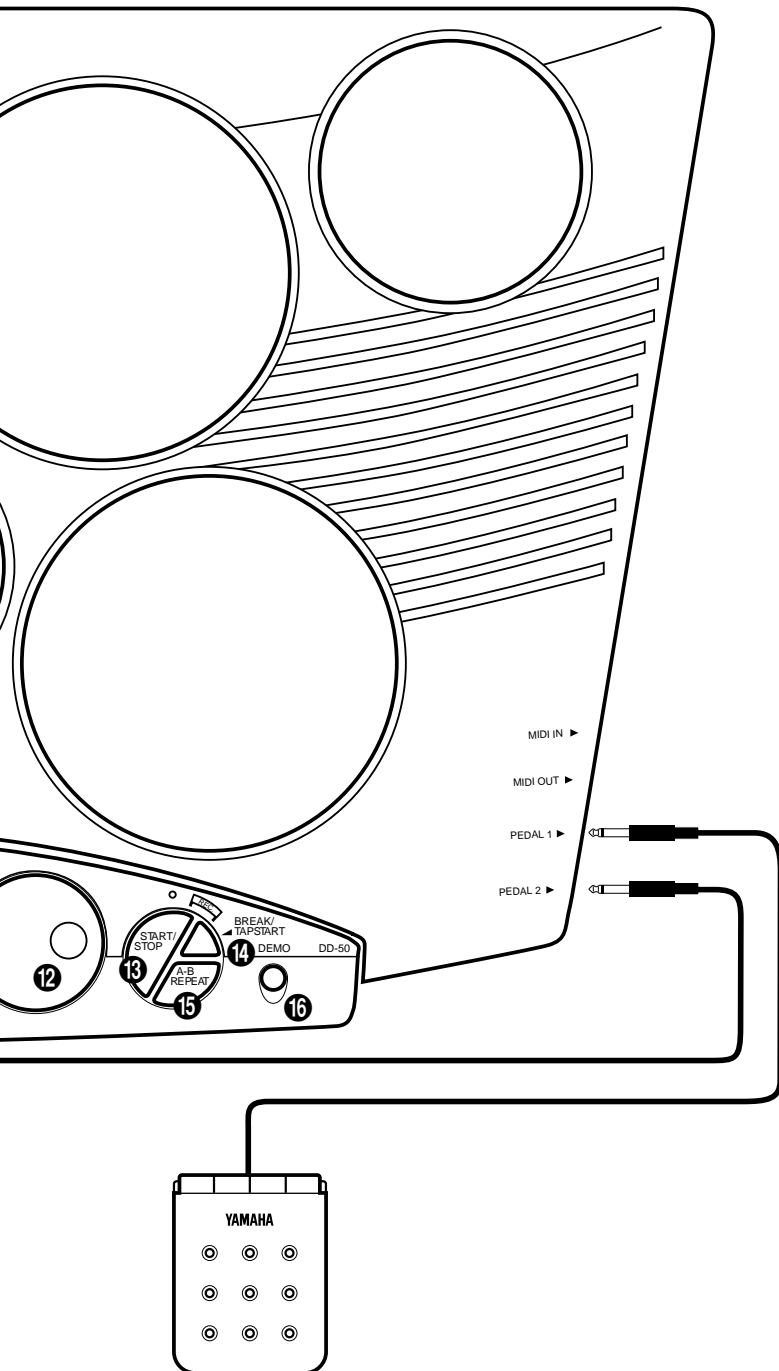
• Also, to prevent damage due to battery leakage, remove all of the batteries from the instrument when it is not to be used for an extended period of time. Batteries left in an unused instrument will also lose their power over time.

Control Panel



Front Panel Page

1 POWER ON/OFF Switch	6	11 CLICK button	9
2 SONG VOLUME buttons	6	12 DIAL	8
3 PAD ASSIGN button	8, 19	13 START/STOP button	10
4 KIT ASSIGN button	8, 20	14 BREAK/TAP START button	12, 13
5 SONG button	10	15 A-B REPEAT button	14
6 TEMPO button	11	16 DEMO button	6
7 Display	8	17 Drum Pads (x 7)	7
8 MASTER VOLUME buttons	6		
9 REVERB button	9		
10 Track buttons			
DRUM 1 button	12, 17		
DRUM 2 button	12, 18		
BASS button	12		
BACKING button	11, 12		



Connecting the Foot Pedals (1/2)

The supplied foot pedals can be connected to the DD-50 to similarly play the drum set's hi-hat pedal or bass drum voices or they can also be assigned to play other voices as well.

NOTES

- Do not press the pedal while connecting it to the DD-50 or while turning on the power. (Connecting in this manner with the power on, the pedal's function may be reversed.)

Side Panel (Left)

- 18 DC IN 10-12V (AC Adaptor) Jack 3
- 19 PHONES/AUX OUT Jack 3

Side Panel (Right)

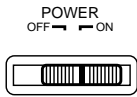
- 20 MIDI IN/MIDI OUT Terminals 16
- 21 PEDAL 1/2 Jacks 5

● Supplied Accessories

- Foot Pedal x 2
- Drum Stick x 2
- Owner's Manual

Playing the Demo Song

To give you idea of the DD-50's possibilities, it comes with a demonstration song. To playback the demo song:



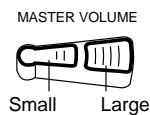
1 Turn on the power

Turn the [POWER] switch ON.



2 Start the Demo Song

Press the [DEMO] button, the demo song will start playback.



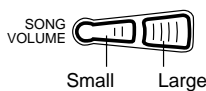
● MASTER VOLUME

The overall volume level of the DD-50 is controlled by two [MASTER VOLUME] buttons (10 volume levels L0-L9).

Press the large [MASTER VOLUME] button to increase the overall volume by one level. Press the small [MASTER VOLUME] button to decrease the overall volume one level. Holding down either of the buttons increases or decreases the volume level rapidly.

L0	◀ L5 ▶	L9
Small	◀ Volume Level ▶	Large

**When the MASTER VOLUME is set to L0, the song's volume is silenced.*



● SONG VOLUME

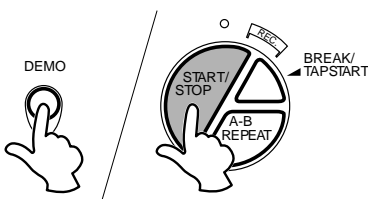
The song's volume level is controlled by the two [SONG VOLUME] buttons (10 volume levels L0-L9). (Demo Song, Song see page 10)

The SONG VOLUME can be used to adjust the balance between the song accompaniment and your own performance on the pads.

Press the large [SONG VOLUME] button to increase the song volume by one level. Press the small [SONG VOLUME] button to decrease the song volume by one level. Holding either of the buttons increases or decreases the song volume level rapidly.

L0	◀ L5 ▶	L9
Small	◀ Volume Level ▶	Large

**When the SONG VOLUME is set to L0, the song's volume is silenced.*



3 Stop the Demo Song

To stop playback, press either the [DEMO] button again or the [START/STOP] button.

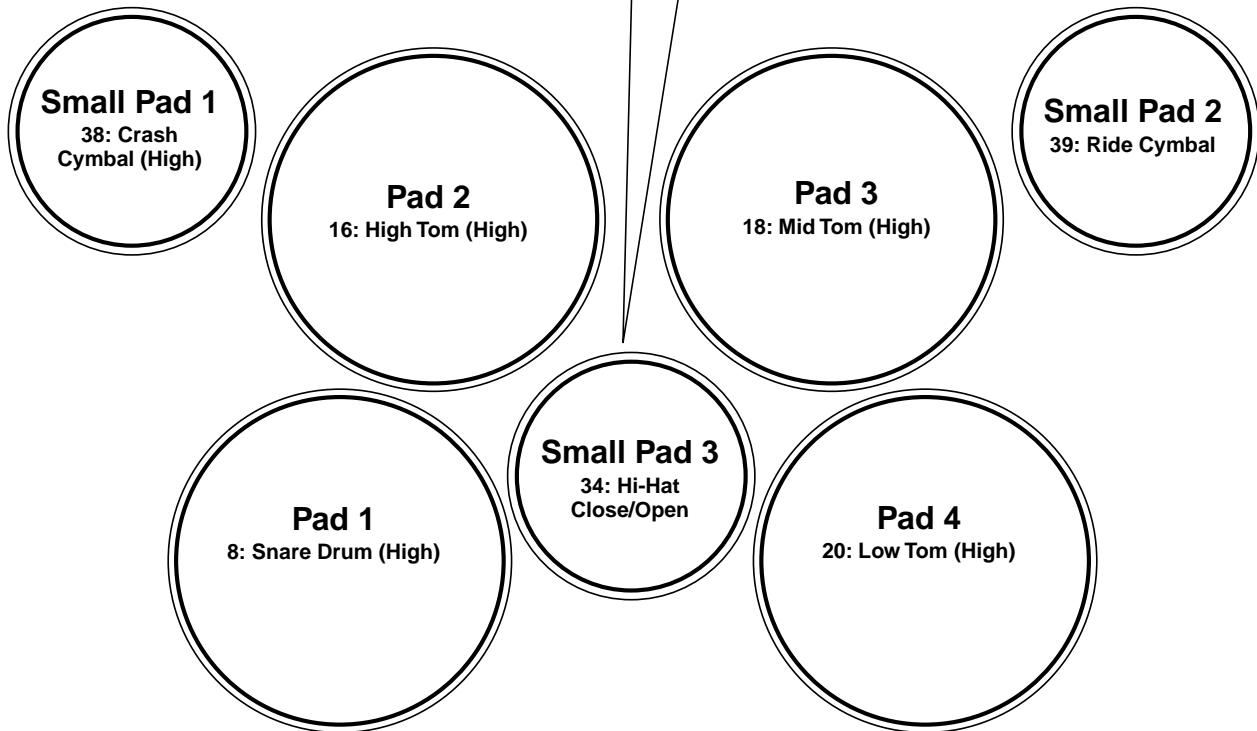
Play the Pads/Pedals

Strike the pad with the supplied drum sticks to play the drum voices. Drum Kit "00" is automatically chosen whenever the power is turned on (see the "Drum Kit List" page 24).

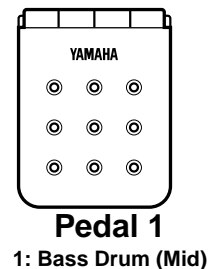
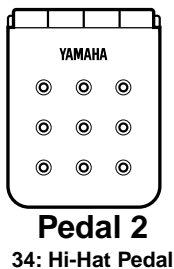
Striking the pads with different force results in relatively loud or soft sounds accordingly. Loudness of the sound may vary according to which part of the pad is struck.

Pad Names

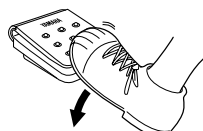
A hi-hat sound is assigned to the Small Pad 3 (Drum Kit 00). Striking the Small Pad 3 while pressing on Pedal 2 produces a closed hi-hat sound. Striking the pad without pressing the pedal produces an open hi-hat sound.



Ex. shown, Drum Kit 00 : Standard 1



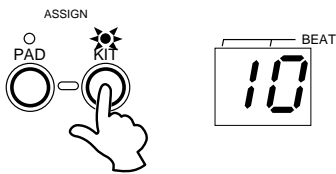
The bass drum voice is controlled by pressing Foot Pedal 1. Use Foot Pedal 2 to control the Hi-hat. (This is in the case of Drum Kit 00.)



Assigning a Drum Kit to the Pads and Pedals

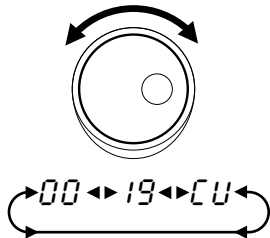
The DD-50 allows you to choose from 20 different Drum Kits (00-19 : see the “Drum Kit List” page 24) quickly and easily. 20 of the kits have preset voice combinations that will be set to the pads and pedals when the kit is selected. Select some different kits and try playing them.

The DD-50 also has one Custom Drum Kit allowing you to assign the desired voices to the seven pads or two pedals (see “Assigning a Voice to Individual Pads and Pedals” below).



1 Press the [KIT ASSIGN] button

Pressing the [KIT ASSIGN] button, the button’s lamp will light and the currently selected Drum Kit number appears on the display.



2 Select a Drum Kit Number

Turn the **DIAL** to select a Drum Kit number. Drum Kit numbers will increase as the **DIAL** is turned to the right (clockwise), and decrease as the **DIAL** is turned to the left (counter-clockwise).

NOTES

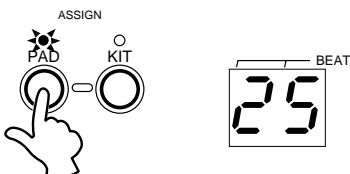
- Drum Kit number 00 is normally selected when the power is turned ON. However, if Auto Kit Select is set to OFF, the last Drum Kit selected before turning the power OFF, is automatically selected when the power is turned ON. (See “Auto Kit Select ON/OFF Setting” on page 11)
- The “CU” Drum Kit is the Custom Kit. Changes made to any one of the preset drum kits will be saved here. (See “Assigning a Voice to Individual Pads and Pedals” below.)

Assigning a Voice to Individual Pads and Pedals (“CU” Custom Kit)

The DD-50 contains a total of 75 high quality drum sounds (see the “Drum Voice List” page 23) that can be assigned to each of the 7 drum pads and 2 foot pedals. Try assigning some different voices to the “CU” Custom Drum Kit.

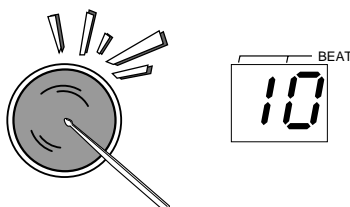
NOTES

- Any change made to one of the preset drum kits will automatically be saved in the “CU” Custom Drum Kit.
- Both the Custom and “00” drum kit contents are the same until modified (see the “Drum Kit List” page 24).



1 Press the [PAD ASSIGN] button

Press the [PAD ASSIGN] button, Pad 1’s currently assigned voice number is shown in the display.

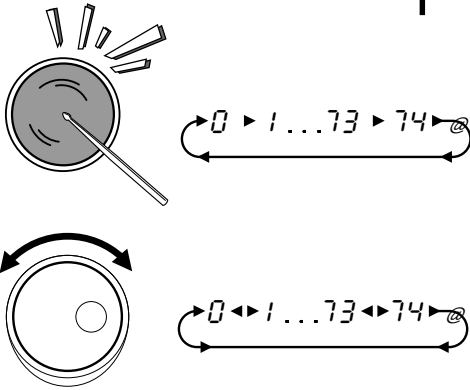


2 Select a Pad/Pedal

Strike any pad one time (or press a pedal), that pad’s/pedal’s currently assigned voice number is shown in the display.

3 Select a Voice Number

You can select the voice by repeatedly striking the pad, repeatedly pressing the pedal (while listening to the voice) or by turning the **DIAL**.



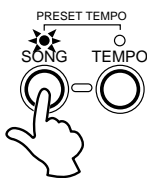
- **Striking the pad or pressing the pedal to select a voice.**

First, select a pad or pedal by striking or pressing it once. After the pad/pedal has been selected, every time the pad is struck or a pedal is pressed, voice numbers will increase by a value of one (1).

- **Using the DIAL to select a voice.**

Turn the **DIAL** to the right (clockwise), and voice numbers will increase. Turn the **DIAL** to the left (counter-clockwise), and voice numbers will decrease.

4 Play the Pads and Pedals



After assigning a voice to the desired pad/pedal, press the **[SONG]** button. You can now play the voice you have assigned to the pad/pedal.

Repeat the previous steps for any or all of the DD-50's pads and pedals and try playing your own original drum kit.

REVERB ON/OFF

REVERB

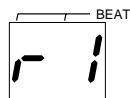
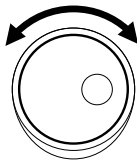


Different depths of the DD-50's reverb effect can be selected to add to the DD-50's overall sound.

To turn on the reverb effect, press the **[REVERB]** button. To turn off the reverb effect, press the **[REVERB]** button again.

- **Select the REVERB Depth**

REVERB



When the reverb has been turned on, press and hold the **[REVERB]** button, turn the **DIAL** to select one of the three reverb depths that appear in the display. [r1], [r2], [r3].

Selecting [r3] adds the most reverb depth to the effect.

NOTES

• REVERB Depth data is not transmitted or received via MIDI.

CLICK ON/OFF

CLICK



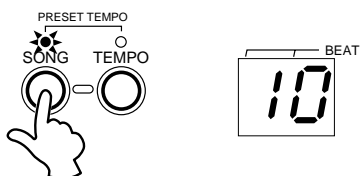
The DD-50's **CLICK** feature produces a metronome click to make the tempo easier to follow and improve your timing while playing the pads.

To hear the metronome click, press the **[CLICK]** button. To turn the click off, press the button once again.

Playing a SONG

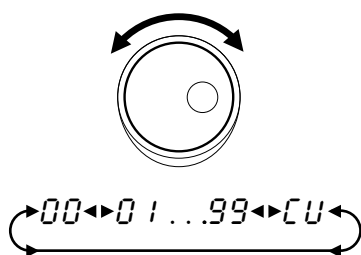
The DD-50 features 100 different songs that can be used to provide accompaniment (see the “Song List” page 26). Select one of the songs and have a listen.

Selecting a SONG



1 Press the [SONG] button

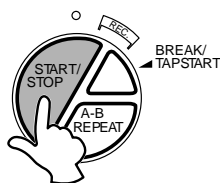
Press the [SONG] button, its LED indicator will light, and the currently selected song number will appear in the display.



2 Use the DIAL to select a song number

Song numbers will increase in value as the **DIAL** is turned to the right (clockwise) and decrease as the **DIAL** is turned to the left (counter-clockwise). (See the “Song List” on page 26)

- NOTES**
- Song number “00” is automatically selected whenever the power is turned ON.
 - With the Auto Kit Select turned on, selecting a song will also automatically select the best suited Drum Kit for that song (see “Auto Kit Select ON/OFF Setting” below).
 - Song numbers are arranged according to their complexity. Smaller numbers are easier to play than larger numbers.



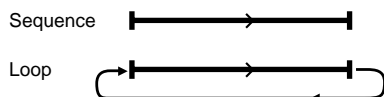
3 Press the [START/STOP] button

Press the [START/STOP] button, after a two-measure count-in (or one measure count-in), the song will start playback.

As the song is playing, the Song’s current measure will be shown in the display. Try playing the pads and pedals along with the song.

To stop playback of the song, press the [START/STOP] button once again.

- NOTES**
- You can also use the TAP START function to start songs (see page 12).



The DD-50’s songs consists of two types, loop type and sequence type (see the “Song List” page 26).

Sequence type songs will automatically stop when the song reaches its end.

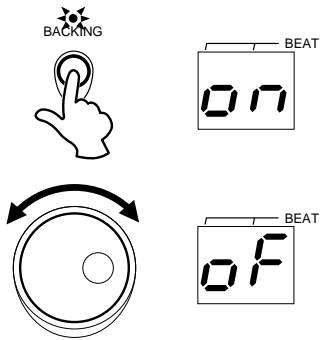
Loop type songs will continuously play from the time the [START/STOP] button is initially pressed, until the button is pressed once again.

Auto Kit Select ON/OFF Setting

The Auto Kit Select function automatically selects the best matching drum kit to the selected song. You can deactivate this feature by setting the Auto Kit Select to OFF.

1 Setting the Auto Kit Select to ON or OFF

Press the [DEMO] and [START/STOP] buttons simultaneously to enter the MIDI/Utility Mode .



2 Select ON or OFF

Press the [**BACKING**] button and the current ON/OFF setting will appear in the display. Turn the **DIAL** to the right (clockwise) to activate the Auto Kit Select (on). Turn to the left (counter-clockwise) to deactivate the Auto Kit Select (oF).

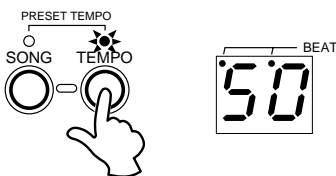
3 Exit the Auto Kit Select

Press the [**DEMO**] and [**START/STOP**] buttons simultaneously once again to exit the MIDI/Utility Mode .

NOTES • The Auto Kit Select is automatically set to "OFF" when the MIDI Transmit Note is changed to another channel.

Adjusting the TEMPO

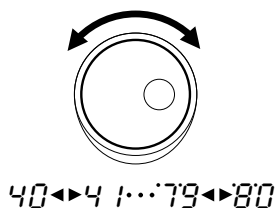
The song tempo can be set anywhere from 40 to 280 beats per minute. As tempo numbers increase, the tempo will become faster.



1 Press the [TEMPO] button

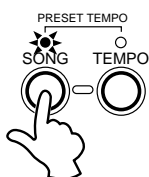
Press the [**TEMPO**] button, the current tempo value (40-280) appears in the display.

Tempo	Display	Comment
♩=90	90	—
♩=110	110	100th digit (1) is shown as a single dot
♩=250	250	100th digit (2) is shown as two dots



2 Set the Tempo

Use the **DIAL** to select the TEMPO. Turn the **DIAL** to the right (clockwise) to increase Tempo values, turn to the left (counter-clockwise) to decrease Tempo values. (Tempo values will cycle to 40 or 280 then stop.)



3 Exit the Tempo setting mode

Press the [**SONG**] button to exit from the Tempo setting mode.

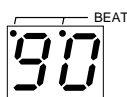
NOTES • When both the SONG and TEMPO buttons are pressed simultaneously, the preset tempo of the currently selected song will automatically applied.

● About the Beat Indicator

During song playback, the two beat lamps in the display will flash in a specific pattern to assist you in keeping the beat.

♩= 90 beats per minute.

1st beat	2nd beat	3rd beat	4th beat
90	90	90	90



Play along with a SONG

Use the pads and pedals to play along with a song accompaniment.

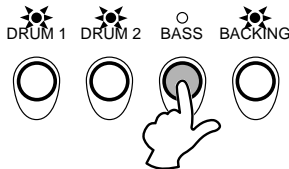
NOTES

- The DD-50 can play a total of 28 notes simultaneously. That includes notes produced by song accompaniment, pads, foot pedals, and note data received through the MIDI IN jack.

TRACK ON/OFF

The DD-50's song accompaniment consists of 4 tracks; Drum 1/2, Bass, and Backing tracks.

DRUM 1	Main Drum track
DRUM 2	Main Percussion track
BASS	Bass track
BACKING	Main Backing Track

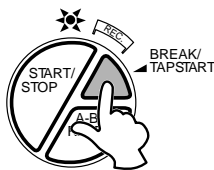


Pressing a Track button ([DRUM 1], [DRUM 2], [BASS], [BACKING]) will mute (turn off the sound) the corresponding track and its indicator lamp will turn off.

Muting DRUM 1 and DRUM 2 tracks allows you to practice your playing technique in Karaoke style (Minus One).

TAP START

The TAP START function allows you to set the song's overall tempo as well as start the accompaniment. The accompaniment will playback at the tempo with which the pads are struck or the pedals are pressed.



1 Press the [BREAK/TAP START] button

Press the [BREAK/TAP START] button when the song stops, its indicator will flash and the DD-50 is in Tap Start standby mode.

To cancel the Tap Start mode, simply press the [BREAK/TAP START] button once again (the indicator will turn off).

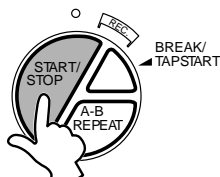


2 Tap Start

In the case of a song in 4/4, strike any pad or press any pedal four times, the accompaniment will start at the desired tempo.

NOTES

- The number of times needed to strike the pad will change according to the following time signatures; 5/4, 5 times; 4/4, 4 times; 3/4, 3 times; 6/8, 2 times.

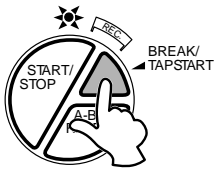


3 Stop the Song Playback

To stop playback, press the [START/STOP] button.

BREAK

With the BREAK function, you can liven up songs by adding your own solos or fills, whenever you want. Striking a pad while in the BREAK mode, the song's accompaniment will be muted until the end of the measure you have finished your fill or solo in.



1 During song playback, press the **BREAK/TAP START** button

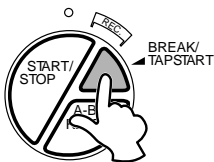
During song playback, press the [**BREAK/TAP START**] button, its indicator will flash and the DD-50 is in BREAK standby mode.

To cancel the Break mode, simply press the [**BREAK/TAP START**] button once again (its indicator will turn off).



2 Break

Strike any pad and the accompaniment will mute until the end of the measure you played in. You can play a drum fill or drum solo during this break.



3 Exit the **BREAK** mode

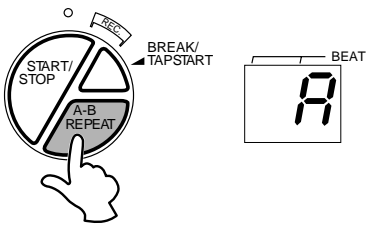
The DD-50 returns to the BREAK standby mode when the BREAK measure is completed.

To exit the BREAK mode, press the [**BREAK/TAP START**] button.

The BREAK mode is also exited when the song is stopped.

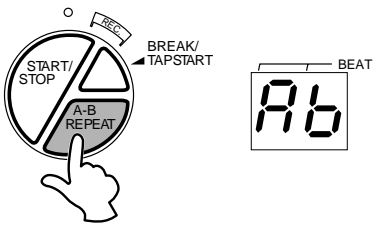
A-B REPEAT

If you want to practice a particular section of a song, you can specify that section's "A" (start repeat) and "B" (end repeat) points. The accompaniment will continuously repeat between points "A" and "B" allowing you to practice between those points for as long as you like.



1 To set the "A" (start repeat) point

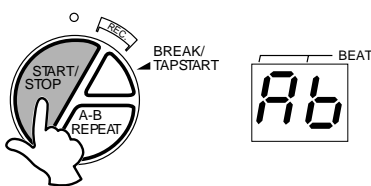
When the song playback has reached the start of the section you want to practice, press the [A-B REPEAT] button and the "A" repeat point is set. An "A" will appear in the display.



2 To set the "B" (end repeat) point

When the song playback has reached the end point of the section you want to practice, press the [A-B REPEAT] button once again and the A to B repeat points are set, "b" appears in the display. "Ab" will appear in the display and after a one measure count-in the repeat playback will start. The current measure number will appear in the display during the repeat playback.

- NOTES**
- The A-B REPEAT start and end points can only be set in measure steps.
 - Songs consist of two types; loop type and sequence type (see the "Song List" on page 26). When setting the A-B points for sequence songs, set both points before the end of the song. The set "A" point will be canceled if the "B" point is not set before the end of the song.

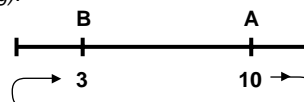


3 Stop the A-B REPEAT mode

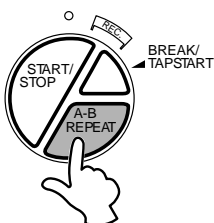
Press the [START/STOP] button and the song accompaniment will stop. "Ab" will appear in the display indicating the A-B REPEAT mode is still engaged.

Press the [START/STOP] button once again and the accompaniment will again repeat between the set points.

- NOTES**
- In the case of a loop type song, it is possible, for example, to set the "A" point at measure 10 and set the "B" point at measure 3 (after the song has looped back to the beginning).



- Selecting another song will cancel any previously set A-B REPEAT points.



● Cancel the Repeat Points

To cancel the A-B REPEAT, press the [A-B REPEAT] button during playback or while playback is stopped, the A-B REPEAT mode will be canceled (the A-B REPEAT points will also be canceled) and normal playback of the accompaniment will continue.

Try Recording

The DD-50's Custom Song feature (song number "CU") allows you to record and playback one original song (600 notes approximately).

- **Data that can be recorded in the Custom Song Mode.**

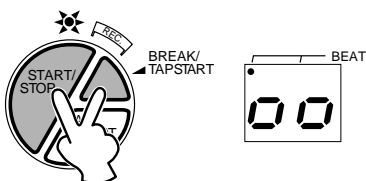
- Drum pad and pedal data.
- Song data (the number cannot be changed while in the RECORD Mode).
- Track ON/OFF settings.
- Tempo setting (The tempo cannot be changed while in the RECORD mode).
- Song Volume setting.
- Reverb ON/OFF setting.
- Break ON/OFF setting.

* MIDI data cannot be recorded to the memory.

RECORD

1 Prepare to Record

Select the desired song, drum kit, tempo, track on/off setting, and reverb settings.



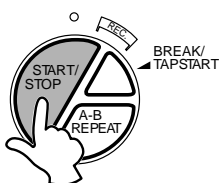
2 Start Recording

Press both the [START/STOP] and [BREAK/TAP START] buttons simultaneously, after a count-in (the indicator will flash) recording will start.



NOTES

- Data will not be recorded during the 2 measure count-in.
- Press the BREAK/TAP START button during the 2 measure count-in to enter Tap Start Record Standby mode (see page 12).
- Press the CLICK button to cancel the metronome during recording.



3 Stop Recording

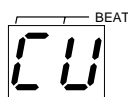
To stop recording, press the [START/STOP] button.

NOTES

- Any previously recorded data will be replaced with new data.
- If the memory becomes full while recording is in progress, "FL" will appear in the display and recording will automatically stop.

Playback

The recorded Custom Song (song number "CU") can be played back in the same manner as any song (song numbers "00"-"99").



Song number "CU" follows Song number "99" (or prior to "00").

NOTES

- The A-B REPEAT mode (see 14 page) cannot be used in the Custom Song Mode.

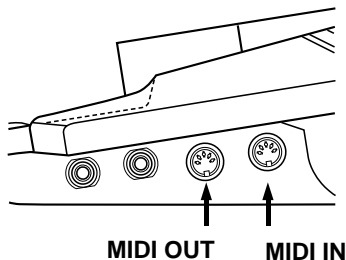
Using the MIDI/Utility Mode

The MIDI IN and MIDI OUT terminals, located on the DD-50's right side panel, offer broadened musical possibilities through use of MIDI. But, what is MIDI? What can you do with MIDI? How can you use MIDI with the DD-50? Here are a few examples.

What is MIDI?

MIDI stands for Musical Instrument Digital Interface. MIDI is a world wide standard that makes it possible for various electronic musical instruments and other devices, such as computers, to "communicate" with each other. For example, by connecting a MIDI tone generator to the DD-50's MIDI OUT terminal, you can play the tone generator's voices from the DD-50's pads and pedals.

The DD-50 is equipped with two types of MIDI terminals, both are located on the right side panel.



● MIDI IN

Data transmitted from other MIDI instruments via MIDI, is received at this terminal.

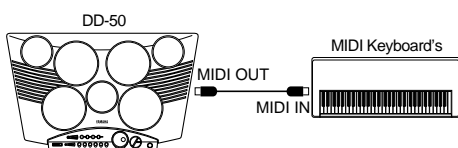
● MIDI OUT

Data produced by the DD-50, is transmitted to other MIDI instruments via MIDI from this terminal.

NOTES

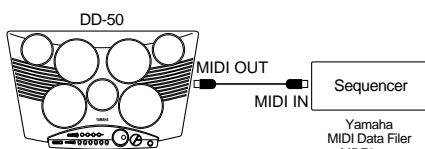
- Use a MIDI cable (option), obtainable at your local music dealer, when making MIDI connections.
- Never use MIDI cables longer than 15 meters in length. (Cables longer than 15 meters can pick up "noise" which can cause data errors.)

What you can do with MIDI



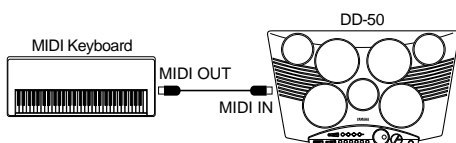
● Connect the DD-50's MIDI OUT jack to a MIDI keyboard's (or tone generator's) MIDI IN jack.

This setup allows you to use the DD-50's pads to control another MIDI instrument. Playing the DD-50's pads will result in the other MIDI instrument's voice sounding simultaneously, creating a thicker overall sound.



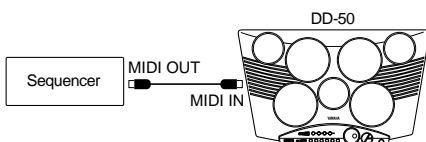
● Connect the DD-50's MIDI OUT jack to a MIDI sequencer's MIDI IN terminal.

Data produced by the DD-50 (Key ON and Velocity data) can be recorded to a MIDI sequencer. Data can also be recorded to computers or other sequencers as well.



● Connect the DD-50's MIDI IN terminal to a MIDI keyboard's MIDI OUT terminal.

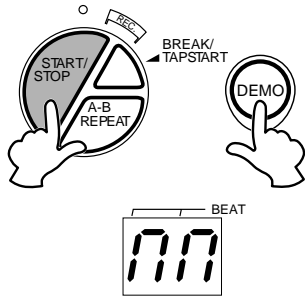
In this setup the DD-50 can be used as a tone generator and its voices can be played from a MIDI keyboard. Using a keyboard as a controller, it is possible to play DD-50 voices that are not assigned to the pads/pedals.



● Connect the DD-50's MIDI IN terminal to a MIDI sequencer's MIDI OUT terminal.

The sequencer's data can be used to drive the DD-50's sounds.

Enter/Exit the MIDI/Utility Mode



To enter the MIDI mode, press the **[START/STOP]** and **[DEMO]** buttons simultaneously, an “MIDI” will appear in the display to indicate the MIDI mode.

NOTES • Pads and pedals do not sound while in the MIDI/Utility mode.

To exit the MIDI mode, once again press the **[START/STOP]** and **[DEMO]** buttons simultaneously, the MIDI mode will be exited and the DD-50 will return to its normal play mode.

Setting the Clock

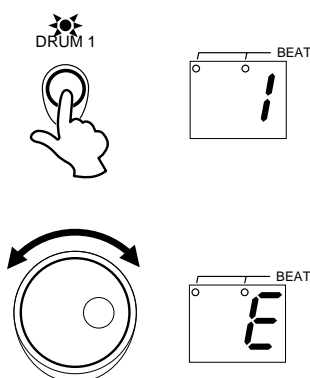
Connecting the DD-50, by MIDI cable, to an external MIDI device, such as a sequencer, time based functions (song playback, etc.) must be controlled by the internal clock (I) or an external clock (E). When the internal clock (I) is enabled, timing will be controlled by the DD-50’s internal clock. When an external clock (E) selected, time based functions will be controlled by the sequencer’s or computer’s clock.

- **I (Internal)**

The DD-50’s clock is used as the timing clock.

- **E (External)**

The external clock is used as the timing clock (If the clock is set to external without being connected to another MIDI device, the DD-50’s Song Play or Demo functions will not respond).



1 Display the clock setting

After entering the MIDI/Utility mode, press the **[DRUM 1]** button to see the current setting for the MIDI clock.

2 Set the Clock to External or Internal

To set the clock to “E” (external), turn the **DIAL** to the right (clockwise). To set the clock to “I” (internal), turn the **DIAL** to the left (counterclockwise).

3 Exit the MIDI/Utility mode

After the clock is set, exit the MIDI/Utility mode.

NOTES • The default MIDI clock setting is “I” (internal).

Local ON/OFF

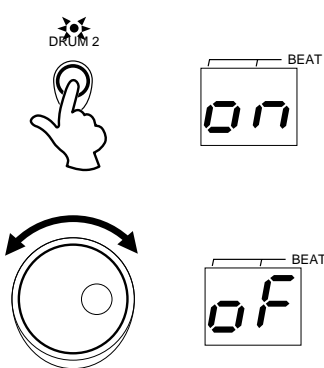
Setting the Local ON/OFF determines whether or not the internal voices respond to the notes you play on the DD-50's pads. Setting this to OFF disconnects the DD-50's pads from the voices. However, data produced by the DD-50 is transmitted via the MIDI OUT terminal.

- **on (Local ON)**

The internal voices will be played and controlled by the DD-50 and its pads. Data received via MIDI will also be played by the DD-50.

- **oF (Local OFF)**

Striking the pads will not produce any sound from the voices. However, data received via MIDI will be played by the DD-50.



1 Display the Local On/Off Setting

After entering the MIDI/Utility mode, press the **[DRUM 2]** button and the current Local ON /OFF setting will appear in the display.

2 Set the Local On/Off

To set to “on” (Local ON), turn the **DIAL** to the right (clockwise), to set to “oF”(Local OFF), turn the **DIAL** to the left (counter-clockwise).

3 Exit the MIDI/Utility mode

After setting the Local ON/OFF, exit the MIDI/Utility mode.

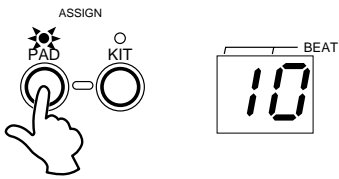
NOTES

- Regardless of the Local ON/OFF setting, the DD-50's performance data (including demo song data) is always sent to the MIDI OUT terminals for transmission to external MIDI devices.
- The default Local ON/OFF setting is ON (Local ON).

Setting the MIDI Transmit Channel

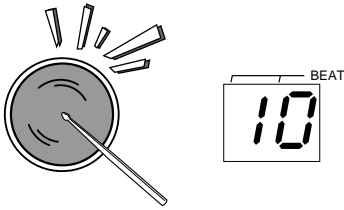
Each of the pads/pedals (a total of 9) can be assigned to transmit on any of the 16 MIDI channels, or turned off (indicated as “oF” in the display). Also, song transmit channels are as shown below:

	Transmit Channel	Default
Pad/Pedal	1-16	10
Drum (Song)	9, 10	9
Bass (Song)	11 (fixed)	—
Backing (Song)	12-15 (fixed)	—
Pad/Pedal (Custom Song)	10, 16	16



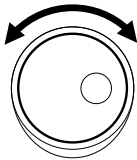
1 Display the MIDI Transmit Channel Number

After entering the MIDI/Utility mode, press the [PAD ASSIGN] button and the current Pad 1 transmit channel will be displayed.



2 Select a pad to be assigned a MIDI Transmit Number

To select the pad you want to assign a MIDI transmit channel to, strike the pad. That pad's currently selected MIDI transmit channel will appear in the display.



3 Set the MIDI Transmit Channel Number

Turning the **DIAL** to the right (clockwise), MIDI transmit channel numbers will increase.

NOTES • You can also select the MIDI transmit channel by striking the pad. Every time the pad is struck the MIDI transmit channel number will increase by 1.

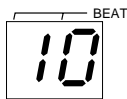
4 Exit the MIDI/Utility mode

After all pads/pedals have been assigned MIDI transmit channels, exit the MIDI/Utility mode.

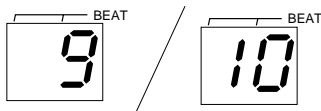
NOTES • For further information on what type of data is transmitted via MIDI, see the "MIDI Implementation Chart" (page 29), and try out the DD-50's advanced MIDI features.

■ Setting the MIDI Transmit Channel . Drum (Song)

Song performance data is transmitted on channel 9. You can change this transmit channel to channel 10 by using the procedure below:



► First enter the MIDI/Utility mode by pressing both the [START/STOP] and [DEMO] buttons simultaneously. Press the [SONG] button and the currently selected transmit channel will be displayed.



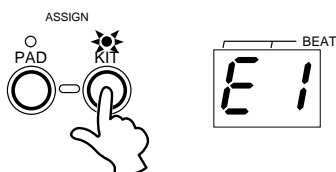
► Turning the **DIAL**, you can select either channel 9 or channel 10. After making a selection, exit the MIDI/Utility mode by pressing both the [START/STOP] and [DEMO] buttons simultaneously once again.

Depending upon the setting of the Drum's (Song) MIDI Transmit Channel, the MIDI Transmit Channel for the Pads/Pedals (Custom Song) will automatically change as follows:

Display	9	10
Drum (Song)	9	10
Pad/Pedal (Custom Song)	16	10

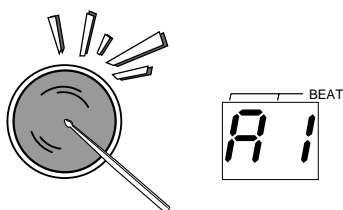
Setting the MIDI Note Number

Each pad and pedal (9 total) can be assigned a specific MIDI note number anywhere from C-2 to G8.



1 Display the MIDI Note Number

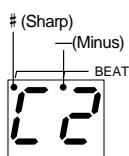
After entering the MIDI/Utility mode, press the **[KIT ASSIGN]** button, the MIDI note number currently assigned to Pad 1 will appear in the display.



2 Select the pad to be assigned a MIDI Note Number

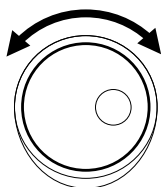
Strike any pad to see the currently assigned MIDI note number in the display.

Sharp notes are indicated by a dot on the upper left side of the display, minus values are indicated by a dot on the upper right side of the display.



3 Assign a MIDI Note Number

To select the desired MIDI note number, turn the **DIAL** to the right (clockwise) and the MIDI note numbers will increase. Turn the **DIAL** to the left (counter-clockwise) and MIDI note numbers will decrease.



NOTES

- You can also select the MIDI note number by striking the pad. Every time the pad is struck, the value will increase by one.

4 Exit the MIDI/Utility mode

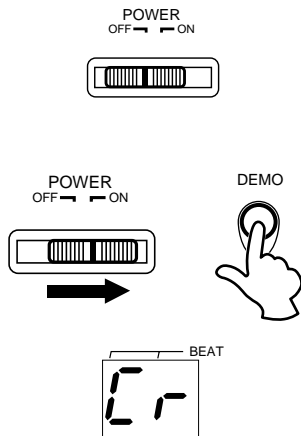
After each pad is assigned a MIDI note number, exit the MIDI/Utility mode.

NOTES

- For information on transmit notes and voices, refer to the DD-50 "Drum Map" (note - voice, list) on page 27.
- When the Pad Assign or Kit Assign is set, the MIDI Note Number will be applied to the preset value. If the Auto Kit Select is set to ON and another Song is selected, the MIDI Note Number will be applied to the preset value. Auto Kit Select is automatically turned off when a MIDI Note Number is changed.

Initialize

The DD-50's Custom Song, Custom Kit, and Panel Setting data are backed up so long as power is supplied to the DD-50 by means of batteries or an AC adaptor. Initialize is the term which refers to this data being restored to its original factory settings. To initialize the DD-50, follow the procedure below.



▶ Turn the **[POWER]** switch OFF.

▶ While holding the **[DEMO]** button, turn the **[POWER]** switch ON. The DD-50 will be initialized to its factory settings. “Cr” will appear in the display when the initialization process is complete.

● Data Backup

The following data will remain in memory, as long as batteries are installed or an AC adaptor is connected, even if the power is turned off.

- * Custom Song
- * Custom Kit
- * Reverb Depth
- * Auto Kit Selection
- * MIDI Transmit Channel for the PAD
- * MIDI Note Number for the PAD

Troubleshooting

In many cases, problems or malfunctions that occur during use can be remedied easily. Please check the following list before deciding that your DD-50 is damaged.

If the suggested remedy is ineffective, take the DD-50 to an authorized Yamaha dealer for proper diagnosis and repair. Do not attempt to repair this digital instrument by yourself as serious damage may occur.

Problem	Cause/Solution
A buzz or click occurs momentarily when the DD-50 is turned ON or OFF	This is a normal power surge noise that occurs when the POWER switch is operated
The LED display is completely dark. When the pads are struck, the display is dark and returns to "00".	The batteries are low and should be replaced with a complete set of six new batteries immediately. Or, the optional AC adaptor PA-3 or PA-3B should be used to power the DD-50 (see page 3).
No sound comes from the speakers.	<ul style="list-style-type: none"> • The volume is set too low. Adjust the volume (see page 6). • A plug is inserted into the PHONES/AUX. OUT jack and should be taken out (see page 3). • The LOCAL ON/OFF is set to OFF. Set the LOCAL ON/OFF to ON (see page 18). • You are in the MIDI/Utility mode. Exit the MIDI/Utility mode (see page 17).
Striking two pads simultaneously results in one of the pads not sounding.	Refer to "Adjusting the Pad's Sensitivity" to resolve the problem (see page 30).
Striking a pad results in other pads also sounding, though they were not struck.	
The selected voice does not sound when the pad is struck.	The desired voice has not been assigned to the pad. Use the PAD ASSIGN function to program the desired voice to the appropriate pad (see page 8).
The custom pad voice assignments have disappeared or defaulted.	The batteries are low and should be replaced with a complete set of six new batteries. Or, an optional AC adaptor (PA-3 or PA-3B) should be used to power the DD-50 (see page 3).
The song or Demo does not start playback.	The MIDI clock has been set to "E" (external). Change the MIDI clock setting to "I" (internal) (see page 17).
"Cr" appears in the display when the POWER switch is turned ON, and backed up data has been erased.	Backed up data is initialized if batteries are not installed or AC adaptor is disconnected while the POWER is turned OFF (see page 21).

Drum Voice List / Drum Voice-Verzeichnis / Liste des voix de batterie / Lista de voces de batería

Pad assign No.	Voice Name
0	Bass Drum Lo
1	Bass Drum Mid
2	Bass Drum Hi
3	Bass Drum Rock
4	Bass Drum Dance
5	Bass Drum Jazz
6	Snare Drum Light
7	Snare Drum Lo
8	Snare Drum Hi
9	Snare Drum Rock Mid
10	Snare Drum Rock Hi
11	Snare Drum Dance
12	Snare Drum Jazz
13	Side Stick
14	Open Rim Shot
15	Sticks
16	High Tom-H
17	High Tom-L
18	Mid Tom-H
19	Mid Tom-L
20	Low Tom-H
21	Low Tom-L
22	Rock H. Tom-H
23	Rock H. Tom-L
24	Rock M. Tom-H
25	Rock M. Tom-L
26	Rock L. Tom-H
27	Rock L. Tom-L
28	Jazz H. Tom-H
29	Jazz H. Tom-L
30	Jazz M. Tom-H
31	Jazz M. Tom-L
32	Jazz L. Tom-H
33	Jazz L. Tom-L
34	*Hi-Hat Closed/Open
35	*Rock HH Closed/Open
36	*Dance HH Closed /Open

37	Crash Cymbal-L
38	Crash Cymbal-H
39	Ride Cymbal
40	Ride Cymbal Cup
41	Chinese Cymbal
42	Splash Cymbal
43	Hand Clap
44	Finger Snap
45	Tambourine
46	Rock Tambourine
47	Cowbell
48	Rock Cowbell
49	Dance Cowbell
50	Latin Cowbell
51	Conga H Mute
52	Conga H Open
53	Conga L
54	Conga Muffled
55	Bongo H
56	Bongo L
57	Timbale H
58	Timbale L
59	Cascala
60	Agogo H
61	Agogo L
62	Cabasa-1
63	Cabasa-2
64	Shaker
65	Rock Shaker
66	Claves
67	Triangle Mute
68	Triangle Open
69	Guiro Short
70	Guiro Long
71	Cuica Mute
72	Cuica Open
73	Surdo Mute
74	Surdo Open

* By assigning Closed and Open Hi-Hat voices to both the Pad and Pedal, those voices can be controlled with the foot pedal as follows:

- Strike the pad while pressing the Foot Pedal, the "Closed" Hi-Hat voice will sound.
- Strike the pad without pressing the Foot Pedal, the "Open" Hi-Hat voice will sound.
- Press the Foot Pedal without striking the pad, the Hi-Hat "Pedal" voice will sound.

* Durch Zuordnen derselben Hi-Hat-Voice (HH Closed/Open) zu sowohl einem Pad und einem Pedal ist folgende Steuerung mit dem Pedal möglich:

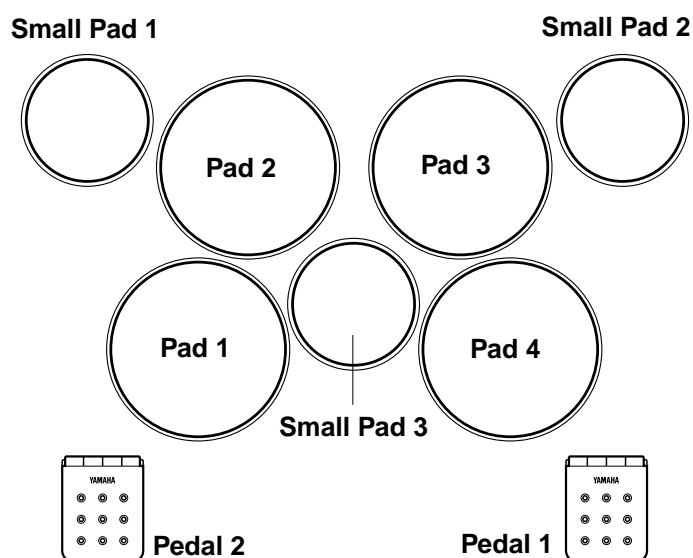
- Beim Anschlagen des Pads mit Pedalbetätigung wird der Klang eines geschlossenen "Closed" Hi-Hat erzeugt.
- Beim Anschlagen des Pads ohne Pedalbetätigung wird der Klang eines offenen "Open" Hi-Hat erzeugt.
- Betätigen Sie das Pedal, ohne das Pad anzuschlagen. Die Hi-Hat "Pedal" Voice erklingt dabei.

* En affectant les voix de cymbale charleston fermée et ouverte (Closed and Open Hit-Hat) au pad et à la pédale, ces voix peuvent être contrôlées par la pédale, comme suit.

- Frappez le pad tout en appuyant sur la pédale et le son de la cymbale charleston fermée ("Closed") sortira.
- Frappez le pad sans appuyer tout en appuyant sur la pédale et le son de cymbale charleston ouverte ("Open") sortira.
- Appuyez sur la pédale sans frapper le pad, pour entendre la voix "Pédale" charleston.

* Asignando voces de platillos abiertos y cerrados a los pulsadores y los pedales, podrá controlar tales voces con los pedales de la forma siguiente:

- Si golpea el pulsador manteniendo pisado el pedal, sonará la voz de platillos cerrados ("Closed").
- Si golpea el pulsador sin pisar el pedal, sonará la voz de platillos abiertos ("Open").
- Pise el pedal sin golpear el pulsador: sonará la voz de "Pedal" de los platillos.



Drum Kit List / Drum Kit-Verzeichnis / Liste des kits de batterie / Lista

No.	Kit Name	Pad 1		Pad 2		Pad 3		Pad 4	
0	Standard 1	8	Snare Drum Hi	16	High Tom-H	18	Mid Tom-H	20	Low Tom-H
1	Standard 2	7	Snare Drum Lo	17	High Tom-L	19	Mid Tom-L	21	Low Tom-L
2	Standard 3	6	Snare Drum Light	16	High Tom-H	18	Mid Tom-H	20	Low Tom-H
3	Standard 4	8	Snare Drum Hi	16	High Tom-H	18	Mid Tom-H	20	Low Tom-H
4	Standard 5	14	Open Rim Shot	17	High Tom-L	19	Mid Tom-L	21	Low Tom-L
5	Standard 6	13	Side Stick	16	High Tom-H	18	Mid Tom-H	20	Low Tom-H
6	Hard Rock 1	10	Snare Drum Rock Hi	22	Rock H.Tom-H	24	Rock M.Tom-H	26	Rock L.Tom-H
7	Hard Rock 2	9	Snare Drum Rock Mid	23	Rock H.Tom-L	25	Rock M.Tom-L	27	Rock L.Tom-L
8	Dance 1	11	Snare Drum Dance	16	High Tom-H	18	Mid Tom-H	20	Low Tom-H
9	Dance 2	6	Snare Drum Light	17	High Tom-L	19	Mid Tom-L	21	Low Tom-L
10	Samba Perc.	73	Surdo Mute	60	Agogo H	61	Agogo L	74	Surdo Open
11	Timbales	58	Timbale L	42	Splash Cymbal	59	Cascala	57	Timbale H
12	Conga	54	Conga Muffled	51	Conga H Mute	52	Conga H Open	53	Conga L
13	Jazz 1	12	Snare Drum Jazz	28	Jazz H.Tom-H	30	Jazz M.Tom-H	32	Jazz L.Tom-H
14	Jazz 2	7	Snare Drum Lo	29	Jazz H.Tom-L	31	Jazz M.Tom-L	33	Jazz L.Tom-L
15	Jazz 3	12	Snare Drum Jazz	28	Jazz H.Tom-H	39	Ride Cymbal	32	Jazz L.Tom-H
16	Twin Bass Drum	8	Snare Drum Hi	23	Rock H.Tom-L	25	Rock M.Tom-L	27	Rock L.Tom-L
17	Rock Perc.	58	Timbale L	46	Rock Tambourine	65	Rock Shaker	57	Timbale H
18	Ballad Perc.	67	Triangle Mute	66	Claves	45	Tambourine	68	Triangle Open
19	Cymbal	14	Open Rim Shot	38	Crash Cymbal-H	39	Ride Cymbal	37	Crash Cymbal-L

de juegos de batería

Small Pad 1		Small Pad 2		Small Pad 3		Pedal 1		Pedal 2	
38	Crash Cymbal-H	39	Ride Cymbal	34	HH Open/Closed (Pedal 2 Off/On)	1	Bass Drum Mid	34	HH Pedal
34	HH Open/Closed (Pedal 2 Off/On)	37	Crash Cymbal-L	47	Cowbell	2	Bass Drum Hi	34	HH Pedal
38	Crash Cymbal-H	39	Ride Cymbal	35	Rock HH Open/Closed (Pedal 2 Off/On)	0	Bass Drum Lo	35	Rock HH Pedal
34	HH Open/Closed (Pedal 2 Off/On)	38	Crash Cymal-H	13	Side Stick	1	Bass Drum Mid	34	HH Pedal
38	Crash Cymbal-H	40	Ride Cymbal Cup	34	HH Open/Closed (Pedal 2 Off/On)	1	Bass Drum Mid	34	HH Pedal
42	Splash Cymbal	39	Ride Cymbal	34	HH Open/Closed (Pedal 2 Off/On)	0	Bass Drum Lo	34	HH Pedal
35	Rock HH Open/Closed (Pedal 2 Off/On)	38	Crash Cymbal-H	48	Rock Cowbell	3	Bass Drum Rock	35	Rock HH Pedal
38	Crash Cymbal-H	40	Ride Cymbal Cup	35	Rock HH Open/Closed (Pedal 2 Off/On)	3	Bass Drum Rock	35	Rock HH Pedal
36	Dance HH Open/Closed (Pedal 2 Off/On)	42	Splash Cymbal	49	Dance Cowbell	4	Bass Drum Dance	36	Dance HH Pedal
41	Chinese Cymbal	39	Ride Cymbal	36	Dance HH Open/Closed (Pedal 2 Off/On)	0	Bass Drum Lo	36	Dance HH Pedal
71	Cuica Mute	72	Cuica Open	63	Cabasa-2	48	Rock Cowbell	45	Tambourine
37	Crash Cymal-L	38	Crash Cymbal-H	50	Latin Cowbell	50	Latin Cowbell	66	Claves
55	Bongo H	56	Bongo L	57	Timbale H	50	Latin Cowbell	47	Cowbell
38	Crash Cymbal-H	39	Ride Cymbal	34	HH Open/Closed (Pedal 2 Off/On)	5	Bass Drum Jazz	34	HH Pedal
42	Splash Cymbal	39	Ride Cymbal	34	HH Open/Closed (Pedal 2 Off/On)	0	Bass Drum Lo	34	HH Pedal
34	HH Open/Closed (Pedal 2 Off/On)	38	CrashCymbal-H	13	Side Stick	5	Bass Drum Jazz	34	HH Pedal
38	Crash Cymbal-H	37	CrashCymal-L	34	HH Open/Closed (Pedal 2 Off/On)	1	Bass Drum Mid	1	Bass Drum Mid
38	Crash Cymbal-H	41	Chinese Cymbal	42	Splash Cymbal	48	Rock Cowbell	43	Hand Clap
64	Shaker	62	Cabasa-1	42	Splash Cymbal	47	Cowbell	44	Finger Snap
34	HH Open/Closed (Pedal 2 Off/On)	40	Ride Cymbal Cup	42	Splash Cymbal	2	Bass Drum Hi	34	HH Pedal

Song List / Song-Verzeichnis / Liste des morceaux / Lista de canciones

No	Song Name
8 Beat	
00	8 Beat 1
01	8 Beat 2
02	8 Beat 3
03	8 Beat 4
04	8 Beat 5
05	8 Beat 6
06	8 Beat 7
07	8 Beat 8
08	8 Beat 9
09	8 Beat 10
10	8 Beat 11
11	8 Beat 12
16 Beat	
12	16 Beat 1
13	16 Beat 2
14	16 Beat 3
15	16 Beat 4
16	16 Beat 5
17	16 Beat 6
18	16 Beat 7
19	16 Beat 8
20	16 Beat 9
21	16 Beat 10
22	16 Beat 11
23	16 Beat 12
24	16 Beat 13
25	16 Beat 14
Dance	
26	Dance 1
27	Dance 2
28	Dance 3
29	Dance 4
Shuffle	
30	Shuffle 1
31	Shuffle 2
32	Shuffle 3
33	Shuffle 4
34	Shuffle 5
35	Shuffle 6
36	Shuffle 7
37	Shuffle 8
38	Shuffle 9
Slow Rock	
39	Slow Rock 1
40	Slow Rock 2
41	Slow Rock 3
42	Slow Rock 4
43	Slow Rock 5
Bounce	
44	Bounce 1
45	Bounce 2
46	Bounce 3
Latin	
47	Reggae 1
48	Reggae 2

49	Bossa Nova
50	Samba
51	Salsa
52	Latin Rock
53	Cha Cha
54	Mambo
55	Rhumba
56	Afro Cuban
Swing	
57	Swing 1
58	Swing 2
59	Swing 3
60	Swing 4
Others	
61	Swing Waltz
62	Waltz
63	3/4 Ballad
64	Swing Blues
65	Blues
66	6/8
67	5/4
68	March 1
69	March 2
8 Beat	
70	8 Beat Simple
71	8 Beat Rock 1
72	8 Beat Rock 2
73	Pop Ballad 1
74	Pop Ballad 2
75	Hard Rock 1
76	Hard Rock 2
77	Hard Rock 3
78	Dance Pop 1
79	Dance Pop 2
80	R&B
16 Beat	
81	16 Beat Simple
82	Fusion 1
83	Fusion 2
Funk	
84	Funk 1
85	Funk 2
Suffle	
86	Shuffle 1
87	Shuffle 2
88	Shuffle 3
89	Slow Rock Simple
90	16 Beat Shuffe
91	16 Beat Triplet
Others	
92	Pop Reggae
93	Bossa Nova
94	Samba
95	Latin
96	Salsa
97	5/4 Organ
98	Fast Swing
99	Big Band

* Song No. 0-69 : Loop Type (Short)
 Song No. 70-99 : Sequence Type (Long)

* Morceaux n° 0 à 69 : en boucle (court)
 Morceaux n° 70 à 99 : en séquence (long)

* Songs 0 bis 69 : Loop (kurz)
 Songs 70 bis 99 : Sequence (lang)

* N.º de canción 0-69 : Tipo bucle (corto)
 N.º de canción 70-99 : Tipo de secuencia
 (largo)

Data / Verzeichnisse und Spezifikationen / Données / Datos

Drum Map / Drum-Notenzurdnung / Topographie de batterie / Mapa de la batería

Bank MSB#	Program #	127 0	127 16	127 25	127 32
Note#	Note	Standard Rock Kit	Hard Rock Kit	Dance Kit	Jazz Kit
13	C# -1	Surdo Mute	<---	<---	<---
14	D -1	Surdo Open	<---	<---	<---
15	D# -1		<---	<---	<---
16	E -1		<---	<---	<---
17	F -1		<---	<---	<---
18	F# -1		<---	<---	<---
19	G -1	Finger Snap	<---	<---	<---
20	G# -1		<---	<---	<---
21	A -1		<---	<---	<---
22	A# -1		<---	<---	<---
23	B -1		<---	<---	<---
24	C 0		<---	<---	<---
25	C# 0		<---	<---	<---
26	D 0		<---	<---	<---
27	D# 0		<---	<---	<---
28	E 0		<---	<---	<---
29	F 0		<---	<---	<---
30	F# 0		<---	<---	<---
31	G 0	Snare Drum Light	<---	<---	<---
32	G# 0	Sticks	<---	<---	<---
33	A 0	Bass Drum Lo	<---	<---	<---
34	A# 0	Open Rim Shot	<---	<---	<---
35	B 0	Bass Drum Mid	<---	<---	<---
36	C 1	Bass Drum Hi	Bass Drum Rock	Bass Drum Dance	Bass Drum Jazz
37	C# 1	Side Stick	<---	<---	<---
38	D 1	Snare Drum Lo	Snare Drum Rock Mid	Snare Drum Dance	Snare Drum Jazz
39	D# 1	Hand Clap	<---	<---	<---
40	E 1	Snare Drum Hi	Snare Drum Rock Hi	Snare Drum Hi	Snare Drum Hi
41	F 1	Low Tom-L	Rock L. Tom-L	Low Tom. L	Jazz L. Tom-L
42	F# 1	Hi-Hat Closed	Rock HH Closed	Dance HH Closed	Hi-Hat Closed
43	G 1	Low Tom-H	Rock L. Tom-H	Low Tom. H	Jazz L. Tom-H
44	G# 1	Hi-Hat Pedal	Rock HH Pedal	Dance HH Pedal	Hi-Hat Pedal
45	A 1	Mid Tom-L	Rock M. Tom-L	Mid Tom. L	Jazz M. Tom-L
46	A# 1	Hi-Hat Open	Rock HH Open	Dance HH Open	Hi-Hat Open
47	B 1	Mid Tom-H	Rock M. Tom-H	Mid Tom. H	Jazz M. Tom-H
48	C 2	High Tom-L	Rock H. Tom-L	High Tom. L	Jazz H. Tom-L
49	C# 2	Crash Cymbal-L	<---	<---	<---
50	D 2	High Tom-H	Rock H. Tom-H	High Tom. H	Jazz H. Tom-H
51	D# 2	Ride Cymbal	<---	<---	<---
52	E 2	Chinese Cymbal	<---	<---	<---
53	F 2	Ride Cymbal Cup	<---	<---	<---
54	F# 2	Tambourine	Rock Tambourine	Tombourine	Tombourine
55	G 2	Splash Cymbal	<---	<---	<---
56	G# 2	Cowbell	Rock Cowbell	Dance Cowbell	Cowbell
57	A 2	Crash Cymbal-H	<---	<---	<---
58	A# 2		<---	<---	<---
59	B 2	Ride Cymbal Cup	<---	<---	<---
60	C 3	Bongo H	<---	<---	<---
61	C# 3	Bongo L	<---	<---	<---
62	D 3	Conga H Mute	<---	<---	<---
63	D# 3	Conga H Open	<---	<---	<---
64	E 3	Conga L	<---	<---	<---
65	F 3	Timbale H	<---	<---	<---
66	F# 3	Timbale L	<---	<---	<---
67	G 3	Agogo H	<---	<---	<---
68	G# 3	Agogo L	<---	<---	<---
69	A 3	Cabasa-1	<---	<---	<---
70	A# 3	Shaker	Rock Shaker	Shaker	Shaker
71	B 3		<---	<---	<---
72	C 4		<---	<---	<---
73	C# 4	Guiro Short	<---	<---	<---
74	D 4	Guiro Long	<---	<---	<---
75	D# 4	Claves	<---	<---	<---
76	E 4		<---	<---	<---
77	F 4		<---	<---	<---
78	F# 4	Cuica Mute	<---	<---	<---
79	G 4	Cuica Open	<---	<---	<---
80	G# 4	Triangle Mute	<---	<---	<---
81	A 4	Triangle Open	<---	<---	<---
82	A# 4	Cabasa-2	<---	<---	<---
83	B 4		<---	<---	<---
84	C 5		<---	<---	<---
85	C# 5	Conga Muffled	<---	<---	<---
86	D 5		<---	<---	<---
87	D# 5	Latin Cowbell	<---	<---	<---
88	E 5	Cascala	<---	<---	<---

<--- : The same voice as indicated in the column to the left

<--- : Wie in der linken Spalte
 ■ : Kein Klang

<--- : La même voix, comme indiqué dans la colonne à gauche.
 ■ : Aucune sonorité

<--- : La misma voz que la indicada en la columna de la izquierda
 ■ : Sin sonido

Specifications / Technische Daten / Spécifications / Especificaciones

Drum Pads	7 pads (125mm x 4, 88mm x 3), Touch Sensitive
Maximum Polyphony	28
Drum Kits	20 Preset + 1 Custom
Songs	100
Tracks	4 (DRUM 1/DRUM 2/BASS/BACKING)
Custom Song	1 Song (approximately 600 notes)
Drum Voices	75
Auxiliary Functions	Track ON/OFF, TAP START, BREAK, A-B REPEAT, DEMO
Panel Controls	POWER ON/OFF, SONG VOLUME (large, small), PAD ASSIGN, KIT ASSIGN, SONG, TEMPO, MASTER VOLUME (large, small), REVERB, TRACK (DRUM 1/DRUM 2/BASS/BACKING), CLICK, DIAL, START/STOP, BREAK/TAP START, A-B REPEAT, DEMO
LED Display	Song/Drum Kit/Tempo etc.
Connectors	DC IN10-12 V PHONES/AUX OUT MIDI IN/OUT PEDAL 1/2
Main Amplifier	3W + 3W (EIAJ)
Speaker	10 cm x 2
Power Source	Six "C" size, SUM-2, R-14, or equivalent batteries (sold separately) DC 10-12V (Yamaha PA-3, PA-3B sold separately)
Dimensions (WxDxH)	552 x 348 x 136 (21" 3/4 x 13" 2/3 x 5" 3/8)
Weight	3.0 kg (6 lbs. 10 oz)
Supplied Accessories	Drum stick x 2, Foot Pedal x 2, Owner's Manual
Optional Accessories	Headphones HPE-150, HPE-3 AC Power Adaptor PA-3, PA3B Foot Switch FC4, FC5

* Specifications subject to change without notice.

* Änderungen ohne Vorankündigung vorbehalten.

* Sous toute réserve de modification des caractéristiques sans préavis.

* Especificaciones sujetas a cambios sin previo aviso.

MIDI Implementation Chart / Implementierungstabelle /
Table d'implémentation / Gráfico de implementación

[Digital Percussion]

Date: 1996. 3. 1

Model: DD-50

MIDI Implementation Chart

Version: 1.0

Function	Transmitted	Recognized	Remarks
Basic Default Channel Changed	1~16 CH 1~16 CH	1~16 CH 1~16 CH	
Mode Default Messages Altered	Mode 3 × *****	Mode 3 × ×	
Note Number : True voice	0~127 *****	13~96 13~96	
Velocity Note on Note off	○ 9nH, v=1~127 × 9nH, v=0	○ 9nH, v=1~127 × 9nH, v=0	
After key's Touch Ch's	× ×	× ×	
Pitch Bender	○	○	
Control Change 0, 32 1 6, 38 7 10 11 64 91 96 97 100, 101 120 121	○ ○ ○ ○ ○ (*1) ○ ○ ○ ○ × × ○ × ×	○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	Bank select MSB, LSB Modulation depth Data entry MSB, LSB Volume Pan Expression Sustain Ambience depth RPN data increment RPN data decrement RPN LSB, MSB All sound off Reset all controllers
Program Change : True #	○ *****	○	0~127
System Exclusive	×	×	
System : Song Position : Song Select Common : Tune	× × ×	× × ×	
System : Clock Real Time : Commands	○ ○	○ ○ (*2)	
Aux : Local ON/OFF : All Notes Off Messages : Active Sense : Reset	× × ○ ×	× × ○ ×	

Mode 1: OMNI ON, POLY
Mode 3: OMNI OFF, POLY

Mode 2: OMNI ON, MONO
Mode 4: OMNI OFF, MONO

○: Yes
×: No

*1 Value of Pan for each drum pad and foot pedal is not transmitted via MIDI.

*1 Pan-Werte der einzelnen Pads und Pedale werden nicht über MIDI übertragen.

*1 La valeur de Pan pour chaque pad de batterie et pour la pédale n'est pas transmise via MIDI.

*1 El valor del efecto panorámico (Pan) para cada pulsador y pedal de batería no se transmite a través de MIDI.

*2 The DD-50 can accept Start/Stop signals, received via MIDI, by setting the MIDI clock to "External".

*2 Das DD-50 spricht auf über MIDI empfangene Start/Stop-Signale an, wenn es auf externen MIDI-Taktgeber ("E") gestellt ist.

*2 Le DD-50 peut accepter les signaux Start/Stop reçus via MIDI, en réglant l'horloge MIDI sur "External (E)".

*2 El DD-50 puede aceptar señales de inicio/parada recibidas a través de MIDI, ajustando el reloj MIDI a "Externo (E)".

Adjusting the Pad's Sensitivity

The factory default setting for pad sensitivity should provide you with trouble-free use. However, it is possible to adjust the pad's sensitivity (0-3, factory default = 2) if you are experiencing one of the problems shown below.


- **Striking two pads simultaneously results in one of the pads not sounding.**

→ Set the pad sensitivity level to 3. When two pads are simultaneously struck with this setting, both pads will sound together. However, if you strike the pads with too much force, the voice of a pad that is not struck may also sound.

- **Striking a pad results in other pads also sounding, though they were not struck.**

→ Set the pad sensitivity level to 1. With this setting, pads that are not struck will become harder to sound. However, if you strike two pads simultaneously without enough force, one of the struck pads may not sound.
→ By setting the pad sensitivity level to 0, pads that are not struck will be even harder to sound.

Setting Procedure

- ① Press the [START/STOP] and [DEMO] buttons simultaneously, “777” will appear in the display.
- ② Press the large [SONG VOLUME] button to enter the pad sensitivity mode. The currently selected pad sensitivity setting will appear in the display.

- ③ Turn the **DIAL** to set the pad sensitivity level (0-3).
- ④ Once again, press the [START/STOP] and [DEMO] buttons simultaneously to exit the pad sensitivity mode and complete the setting procedure.

NOTES

- The pad sensitivity setting is retained in memory, even if the power is switched off, as long as batteries are installed or the power adaptor is connected to an AC outlet. If batteries are not installed and the power adaptor is not connected to an AC outlet, the sensitivity setting will return to its factory default setting (2).

Einstellen der Pad-Empfindlichkeit

Die werkseitige Standardeinstellung für die Pad-Empfindlichkeit sorgt im Normalfall für problemlosen Spieleinsatz. Sollte jedoch eines der im folgenden angeführten Probleme auftreten, können Sie die Pad-Empfindlichkeit (0 bis 3, Standardeinstellung = 2) höher oder niedriger einstellen.

- **Beim gleichzeitigen Anschlagen von zwei Pads erzeugt eines keinen Ton.**


→ Stellen Sie die Pad-Empfindlichkeit auf “3” ein. Wenn Sie bei dieser Einstellung zwei Pads anschlagen, erzeugen beide Ton. Bei zu starkem Anschlagen kann es jedoch vorkommen, dass auch andere Pads “mitschwingen”.

- **Beim Anschlagen eines Pads erzeugen andere Pads Ton, obwohl sie nicht berührt wurden.**

→ Stellen Sie die Pad-Empfindlichkeit auf “1” ein. Bei dieser Einstellung reagieren die Pads weniger empfindlich. Wenn jedoch zwei Pads gleichzeitig mit zu wenig Kraft angeschlagen werden, klingt eines davon unter Umständen nicht.

→ Wenn die Pad-Empfindlichkeit auf “0” eingestellt wird, schwingen andere Pads nur bei extremer Anschlagstärke mit.

Einstellvorgang

- ① Die Tasten [START/STOP] und [DEMO] gleichzeitig drücken. “777” wird auf dem Display angezeigt.
- ② Die größere [SONG VOLUME]-Taste drücken, um auf Einstellmodus für Pad-Empfindlichkeit zu schalten. Die aktuelle Einstellung wird auf dem Display angezeigt.

- ③ Am **Wählrad** drehen, um die gewünschte Empfindlichkeit einzustellen.
- ④ Erneut die Tasten [START/STOP] und [DEMO] gleichzeitig drücken, um den Einstellmodus für Pad-Empfindlichkeit zu verlassen und den Einstellvorgang zu beenden.

HINWEISE

- Die Pad-Empfindlichkeitseinstellung bleibt auch beim Ausschalten des Instruments gespeichert, solange Batterien eingelegt sind oder ein Netzadapter angeschlossen ist. Wenn keine Batterien eingelegt sind und der Netzadapter nicht angeschlossen ist, wird die Empfindlichkeit auf die werkseitige Standardeinstellung (2) zurückgesetzt.

Réglage de la sensibilité des pads

Le réglage par défaut en usine de la sensibilité des pads devrait vous permettre une utilisation sans problème. Cependant, il est possible de régler la sensibilité des pads (de 0 à 3, 2 étant le défaut) au cas où vous seriez confronté à l'un des problèmes mentionnés ci-dessous.

• En frappant sur deux pads en même temps, vous n'entendez qu'un des pads.


→ Réglez le niveau de sensibilité de pad sur 3. Lorsque vous frappez sur deux pads en même temps avec ce réglage, les deux pads résonnent ensemble. Cependant, si vous frappez sur les pads avec une force trop grande, vous pouvez aussi entendre la voix d'un pad que vous n'avez pas touché.

• Le fait de frapper un pad fait aussi résonner d'autres pads, même si vous ne les avez pas touchés.

→ Réglez le niveau de sensibilité de pad sur 1. Avec ce réglage, les pads qui ne sont pas frappés ont plus de mal à résonner. Cependant, si vous frappez sur les pads avec une force insuffisante, l'un des pads frappés peut ne pas résonner.

→ En réglant le niveau de sensibilité de pad sur 0, les pads que vous n'aurez pas touché résonneront encore moins.

Procédure de réglage

- ① Appuyez en même temps sur les boutons [START/STOP] et [DEMO], pour faire apparaître “*ff*” sur l'écran.
 - ② Appuyez sur le gros bouton [SONG VOLUME] pour entrer le mode de sensibilité de pad. Le réglage de sensibilité du pad actuellement sélectionné apparaît sur l'écran.
- 
- ③ Tournez la molette **DIAL** pour fixer le niveau de sensibilité du pad (0 à 3).
 - ④ Une fois de plus, appuyez en même temps sur les boutons [START/STOP] et [DEMO] pour sortir du mode de sensibilité de pad et terminer la procédure de réglage.

REMARQUES

- Le réglage de sensibilité de pad reste mémorisé, même quand l'alimentation est coupée, aussi longtemps que les piles sont en place ou que l'adaptateur secteur est branché dans une prise murale. Quand il n'y a plus de piles dans l'appareil et que l'adaptateur secteur est déconnecté à la prise murale, le réglage de sensibilité revient au réglage par défaut en usine (2).

Ajuste de la sensibilidad de los pulsadores

El ajuste de fábrica para la sensibilidad de los pulsadores debe proporcionar un funcionamiento sin problemas. Sin embargo, es posible ajustar la sensibilidad de los pulsadores (0-3, ajuste de fábrica = 2) si le ocurre alguno de los problemas que se mencionan a continuación.

• Cuando se accionan dos pulsadores simultáneamente, uno de los pulsadores no suena.

→ Ajuste el nivel de sensibilidad de los pulsadores a 3. Cuando se accionan dos pulsadores simultáneamente con este ajuste, ambos pulsadores sonarán al mismo tiempo. Sin embargo, si acciona los pulsadores con demasiada fuerza, la voz de un pulsador que no se ha accionado también puede sonar.

• Al accionar un pulsador, también suenan otros pulsadores, aunque no hayan sido accionados.

→ Ajuste el nivel de sensibilidad a 1. Con este ajuste, será más difícil que suenen los pulsadores que no han sido accionados. Sin embargo, si acciona dos pulsadores simultáneamente sin suficiente fuerza, es posible que no suene uno de los pulsadores.

→ Ajustando el nivel de sensibilidad de los pulsadores a 0, todavía será más difícil que suenen los pulsadores que no se accionan.

Procedimiento de ajuste

- ① Presione simultáneamente los botones [START/STOP] y [DEMO], y “*ff*” aparecerá en el visualizador.
- ② Presione el botón grande [SONG VOLUME] para entrar en el modo de sensibilidad de los pulsadores. El ajuste de la sensibilidad de los pulsadores actualmente seleccionado aparecerá en el visualizador.



- ③ Gire el **DIAL** para ajustar el nivel de sensibilidad de los pulsadores (0-3).
- ④ Presione otra vez simultáneamente los botones [START/STOP] y [DEMO] para salir del modo de sensibilidad de los pulsadores y completar este procedimiento de ajuste.

NOTAS

- El ajuste de la sensibilidad de los pulsadores se retienen en la memoria, incluso cuando se desconecta la alimentación, siempre y cuando haya pilas instaladas o el adaptador de CA esté enchufado a la toma de corriente. Si las pilas no están instaladas y el adaptador de alimentación no está enchufado a una toma de corriente, el ajuste retornará al ajuste de fábrica (2).

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