MIDI DISK PLAYER

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

DISK ORCHESTRA UNIT

DOU-10

YAMAHA

SPECIAL MESSAGE SECTION (USA)

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

WARNING: Do not place this product in a position where anyone could walk on, trip over, or roll anything over power or connecting cords of any kind. The use of an extension cord is not recommended! IF you must use an extension cord, the minimum wire size for a 25' cord (or less) is 18 AWG. NOTE: The smaller the AWG number, the larger the current handling capacity. For longer extension cords, consult a local electrician

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. IMPOR-TANT: The louder the sound, the shorter the time period before damage occurs

Some Yamaha products may have benches and/or accessory mounting fixtures that are either supplied with the product or as optional accessories. Some of these items are designed the supplied with the product of as opinion accessories control of the state of the

mended.

Service charges incurred due to 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:

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 re-placement becomes necessary, contact a qualified service representative to perform the re-

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 old batteries with new, or with batteries of a different type. Batteries MUST be installed correctly. Mismatches or incorrect installation may result in verheating 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	

92-BF

PLEASE KEEP THIS MANUAL

FCC INFORMATION (U.S.A)

1. 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.

2. 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.

3. 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 user's 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 co-axial type cable.

If these corrective measures do not produce satisfactory results, please contact the your 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, CA 90620

The above statements apply ONLY to those products distributed by Yamaha Corporation of America or its subsidiaries.

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DISK ORCHESTRA UNIT Typ: DOU-10 MIDI DISK PLAYER Typ: MDP2 (Gerät, typ, Bezeichnung)

in Übereinstimmung mit den Bestimmungen der

VERFÜGUNG 1046/84 (Amtsblattverfügung)

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Appareten kopplas inte ur växelströmskällan (nätet) så länge som den ar ansluten till vägguttaget, även om själva apparaten har stängts av.

ADVARSEL: Netspæendingen til dette apparat er IKKE afbrudt, sålæenge netledningen siddr i en stikkontakt, som er t endt - også selvom der or slukket på apparatets afbryder.

VAROITUS: Laitteen toisiopiiriin kytketty käyttökytkin ei irroita koko laitetta verkosta.

Congratulations and thank you for purchasing the MDP2 MIDI Disk Player / DOU-10 Disk Orchestra Unit!

The MDP2/DOU-10 is a small yet advanced device that combines a high-quality tone generator with versatile disk recording/playback functions. It features a large selection of instrumental Voices and is compatible with a wide range of music software.

Precautions

Your MDP2/DOU-10 is a sophisticated device and contains sensitive mechanisms and delicate digital circuitry. To ensure a long lifetime of reliable service, observe these precautions when installing, moving and using it.

LOCATION

Keep the instrument away from locations where it is likely to be exposed to high temperatures (such as direct sunlight) or humidity. Also avoid locations which are subject to excessive dust accumulation or vibration which could cause mechanical damage.

USE THE CORRECT POWER SUPPLY

Use the recommended PA-5B (DC12V, 1.5A) Power Adaptor for supplying power to the instrument. Use of another adaptor may cause serious damage to the instrument or the adaptor itself.

MAKE SURE POWER IS OFF WHEN MAKING OR REMOVING CONNECTIONS

To prevent damage to the instrument and other connected equipment, always turn off the power prior to connecting or disconnecting cables. Also, turn the power off when the instrument is not in use, and disconnect the power adaptor during electric storms.

HANDLE THE INSTRUMENT WITH CARE

Although the instrument has been constructed to withstand the normal rigors of stage and studio use for optimum sturdiness and reliability, avoid subjecting it to strong physical shocks (such as dropping or hitting it). Since the MDP2/DOU-10 is a precision-made electronic device, also avoid applying excessive force to the various controls. When moving the instrument, first unplug the power adaptor and all other cables to prevent damage to

cords and jacks. Always unplug cables by gripping the plug firmly, not by pulling on the cable.

CLEAN WITH A SOFT, DRY CLOTH

Never use solvents such as benzine or thinner to clean the instrument, since these will damage the cabinet finish or dull the keys. Wipe clean with a soft, dry cloth. If necessary, use a soft, clean cloth slightly moistened with a diluted, mild detergent – making sure to wipe the case off again with a dry cloth.

ELECTROMAGNETIC INTERFERENCE

Avoid using the unit near televisions, radios or other equipment generating electromagnetic fields. Proximity to such equipment may cause the unit to malfunction, and may generate interference noise in the other appliance as well.

DO NOT OPEN THE CASE OR TRY REPAIRING THE INSTRUMENT YOURSELF

The instrument contains no user-serviceable parts. Never open the case or tamper with the internal circuitry in any way, since doing so may result in electrical shock or damage to the instrument. Refer all servicing to qualified Yamaha service personnel.

MIDI CABLES

When connecting the instrument to other MIDI equipment, be sure to use only high-quality cables made especially for MIDI data transmission. Also, avoid using cables longer than 15 meters, since long cables can result in data errors.

FLOPPY DISKS AND THE DISK DRIVE

Type of Disk

Use only 3.5-inch 2DD floppy disks.

Disk Insertion and Removal

- To insert a floppy disk in the disk drive, hold the disk with the label side facing up and the sliding shutter facing the disk drive slot, then insert carefully until the disk clicks into place.
- To remove a floppy disk from the disk drive, make sure the disk drive "in use" light is not lit and press the disk eject button firmly as far as it will go and then, when the disk is full ejected, remove it by hand.

If the eject button is only partially pressed or pressed too quickly the eject mechanism may not function properly, leaving the disk stuck halfway. Do not attempt to remove the disk forcefully if this happens, since excessive force can damage the disk and/or the drive mechanism. Try either pressing the eject button carefully again, or push the disk all the way back into the drive and repeat the eject procedure.

- Never attempt to remove a floppy disk during a record or playback operation!! This can corrupt the data on the disk, and actually damage the disk drive!
- Be sure to remove the floppy disk from the disk drive before turning off the power. A floppy disk left in the drive for extended periods can easily pick up dust and dirt that may cause data read/write errors.

Clean the Read/Write Head Regularly

This instrument employs a precision magnetic read/write head which, after an extended period of use, will pick up a layer of magnetic particles from the disks used that will eventually cause read and write errors. When particle build-up affects performance, the MDP2/DOU-10 alerts you to clean the drive with a "Clean Head!" message. To maintain the disk drive in optimum working order we recommend that you use a commercially-available Dry-type Head Cleaning Disk to clean the head about once a month.

Floppy Disk Handling and Storage

The actual recording medium inside a floppy disk has a fine coating of magnetic particles in which the data is "stored". To protect this coating as well as the disk drive's delicate read-write head, please observe the following:

- Always keep floppy disks in their plastic case when they are not in use. Never place heavy objects on a disk or bend the disk in any way. Also keep disks away from liquids and dust.
- Never open the disk's shutter and touch the exposed surface of the disk.
- Keep floppy disks away from strong magnetic fields such as those produced by television sets, speakers, motors, etc.
- Never leave floppy disks in areas exposed to strong direct sunlight, excessively high or low temperature, or high humidity.
- Never use a floppy disk with a deformed shutter or housing.
- Do not attach anything other than the provided labels to a floppy disk. Also make sure that labels are attached in the proper location.

Protecting Your Data

- To prevent accidental erasure of important data you have saved to floppy disk, be sure to slide the disk's write-protect tab to the "write protect" position (the tab window should be open). When this is done the disk cannot be written to.
- Make regular backup copies of important data to a separate floppy disk, and keep your backup disks in a separate, safe place.
- To ensure the safety of your data (and of the disk drive itself) always use floppy disks from a well-known, reliable manufacturer. "No-brand" disks can cause trouble.

Yamaha is not responsible for damage caused by improper handling or operation.

The MDP2/DOU-10: What It Is and What It Can Do

Tone Generator

The tone generator of the MDP2/DOU-10 provides a wealth of high-quality instrument **Voices** — 61 in the Disk Orchestra mode and 128 in the General MIDI mode. You can play any of these Voices from a connected MIDI keyboard, and use them with the sophisticated Song playback and recording functions of the instrument.

Song Playback

The MDP2/DOU-10 can be used for high-quality playback of recorded performances (or **Songs**), both for your listening enjoyment and practice purposes. There is a vast selection of pre-recorded Songs by professional artists in many formats. Since the MDP2/DOU-10 is compatible with the Disk Orchestra Collection series and the PianoSoft series for the Disklavier, as well as General MIDI software, you have an incredibly broad variety of recorded material to choose from.

A variety of playback functions give you even more flexibility in playing and practicing with the Songs. For example, Muting and Minus One functions allow you to selectively take out an individual instrument Voice (or **Part**) and play it yourself — letting you play and practice with full musical accompaniment. You can do this with an acoustic instrument as well, or even connect another electric instrument (such as a guitar) to the rear panel of the MDP2/DOU-10 and play along with a Song on disk.

Song Recording

The MDP2/DOU-10 is also a powerful creative tool, giving you extensive music production capabilities. It lets you create your own Songs by recording onto independent **Tracks**, each Track capable of playing back a different Voice. This lets you easily build up high-quality, sophisticated compositions and arrangements. In the Disk Orchestra mode, you have up to eleven different Tracks for recording; in the General MIDI mode, there are sixteen Tracks.

More About Parts and Tracks

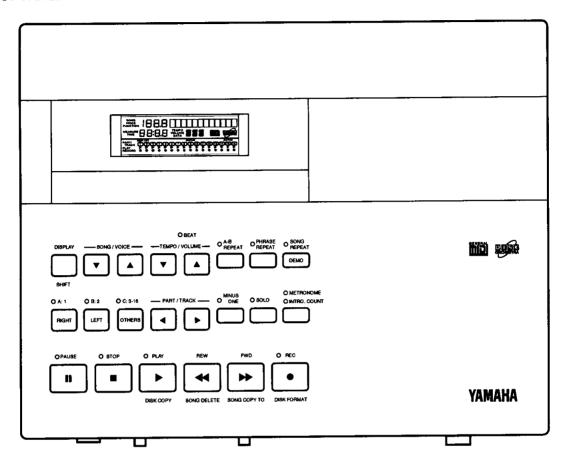
Practically speaking, the terms Part and Track refer to basically the same thing — an independent channel for playback and recording. When using the MDP2/DOU-10 as a tone generator and for Song playback, they are called Parts. When using it for recording, they are called Tracks. There are sixteen of these channels, each capable of playing a different Voice and each corresponding to one of the sixteen MIDI channels. (For more about MIDI, see page 20.)

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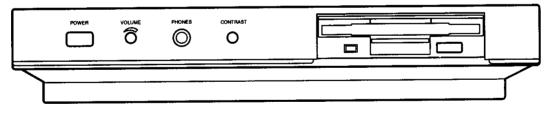
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| Panel Controls and Terminals

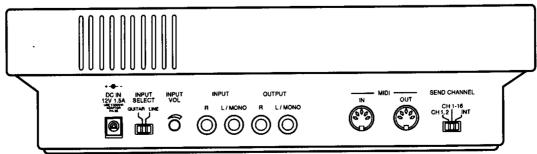
TOP PANEL



FRONT PANEL



REAR PANEL



Guided Tour

In this relatively short but very important section, you'll learn the basics of operating your MDP2/DOU-10. This will show you how to:

- Properly set up the instrument.
- Play back the internal Demo Song.
- Play back Songs on the included Demo Disk.
- Use some of the convenient playback functions.
- Record your own Songs.

Master the basics in this section, and you'll have the experience and know-how necessary to use any of the other more advanced functions covered later in the **Reference** section.

Setting Up

1 Connect the PA-5B Power Adaptor.

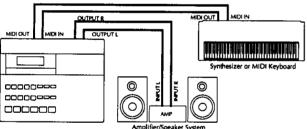
CAUTION!

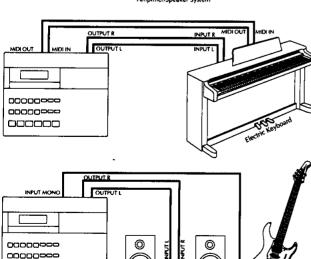
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Use only a Yamaha PA-5B (DC12V, 1.5A) Power Adaptor to power your instrument from the AC mains. Use of other adaptors may result in irreparable damage to both the adaptor and the instrument.

Make all MIDI and audio connections.

Connect the MIDI terminals of the MDP2/DOU-10 to those on the MIDI keyboard (or Clavinova), as shown below. Also, make all audio cable connections, if you are using an amplifier/speaker system.





NOTE

- If you will not be using the MDP2/DOU-10 to play sounds on the connected Clavinova/MIDI keyboard, there is no need to connect a MIDI cable to the MIDI OUT terminal on the instrument.
- If you are using a set of stereo headphones, simply plug those into the PHONES jack on the front panel.



• If you are using the MDP2/DOU-10 to only play back disks and will not be using a keyboard, simply make the audio connections described and ignore all instructions concerning the keyboard.

Set the SEND CHANNEL switch on the rear panel.

SEND CHANNEL



When set to CH 1, 2 (default):

The performances recorded to channels 1 and 2 will be played on the MIDI keyboard, and those of all other channels will be played with the internal Voices on the instrument. We recommend using this setting for the Clavinova.

When set to INT:

All recorded performances will be played with the internal Voices on the instrument.

(For more information on the SEND CHANNEL switch and its uses, see page 21.)

Turn on the MIDI keyboard (or Clavinova), the connected amplifier/speaker system (if you are using one), and finally the MDP2/DOU-10.

NOTE

Turn down all volume controls.

To avoid damage to your equipment (and your ears!), make sure that the VOLUME control on the MDP2/DOU-10 and volume controls on any connected devices are set at or near the minimum – before you turn on the power.

- Bring up the volume controls on the connected audio equipment to a suitable level.
- Finally, while playing the connected keyboard, slowly bring up the VOLUME control on the instrument.

If you've followed all the above instructions carefully and correctly, you should hear one of the Voices of the instrument as you play the keyboard. Also, if you have connected an instrument to the INPUT jack(s), adjust the INPUT VOL control on the rear panel if necessary.

Look now at the PART/TRACK row in the display. One of the Part numbers should have a box around it that flashes when you play the connected keyboard:



This flashing box indicates that MIDI data is being received, and that the corresponding Part is being played. (A "Part" basically represents a separate instrument sound. For more information on Parts and how they are used, see page 2.)

CONTRAST Dial (FRONT PANEL)

This is for adjusting the contrast of the display. Adjust this as necessary for optimum visibility.

POWER

VOLUME

PHONES

CONTRAST



Power Save Function

The MDP2/DOU-10 has a convenient Power Save function which automatically cuts power consumption when the instrument is on but not used for an extended time. If you leave it unused for about twenty minutes, the message "I'm sleepy" appears in the display, and pressing any button on the panel will restore the previous condition. However, if the instrument continues to remain unused for another minute or so, the message "I'm sleeping" appears, indicating that Power Save is on. Performing any operation in this condition "wakes" the MDP2/DOU-10 and restores the normal power on condition.

|Playing the Demo Song and Disk

Playing the Demo Song

Now that you've set everything up and have gotten some sound out of the instrument, try playing the builtin Demo Song.

Making sure no disk is in the disk drive, press the DEMO button. (The Song starts playing back immediately.)





During playback, notice the boxes lighting around some of the Part numbers in the PART/TRACK row. These boxes flash or light to indicate that the corresponding Part number is being played. To stop the Demo Song, either press the DEMO button again or press the STOP button.



Press DEMO or STOP to stop playback.

NOTE

•Playback of the Demo Song repeats indefinitely until it is stopped.

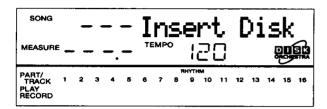
•The internal Demo Song is entitled "Lake Louise" and was composed by Yuhki Kuramoto.

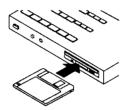
Playing the Demo Disk

Now, let's try playing some songs from the included Demo Disk.

1 Insert the Demo Disk.

When you turn the instrument on, the following display appears, prompting you to insert a disk.





Insert the included Demo Disk slowly, gently pushing it all the way until the disk drive engages the disk. Also, wait briefly as the MDP2/DOU-10 reads data from the disk; dashes appear briefly in the display, followed by the name of the first song on the disk.

2 Select a song.

Use the **SONG/VOICE** buttons to select one of the thirty songs on the disk. Look through the song list (on page 31) as you select a song.



Song #1 is automatically selected when you insert the disk. If you want to play this song, skip to the next step.

NOTE

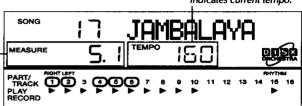
The Demo Disk includes both Disk Orchestra Collection and General MIDI Songs. When selecting a Song of either type, the corresponding logo appears in the display.

Play the selected song.

Press the PLAY button (▶) to start playback. (The PLAY lamp lights.) The selected song will play in its entirety and stop, unless stopped in the next step.



Indicates current measure and beat. If Time is selected, this indicates the absolute time in minutes and seconds. (See page 16.)
Indicates current tempo.



MPORTANT

To ensure that all Parts play back properly, check that the lamps above the RIGHT, LEFT and OTHERS Part buttons are lit. If not, press the corresponding buttons so that they do light. If no data has been recorded to the corresponding Part(s), the button lamp(s) will not light.

NOTE

The BEAT lamp flashes in time with the music. (A red flash indicates the first beat; other beats flash in green.)

4 Stop the song.

You can stop the song at any time by pressing the STOP button. (The STOP lamp lights.)



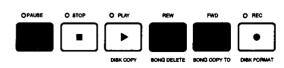
If you want to play the song again, simply press the **PLAY** button again. If you want to play a different song, go back to step 2 and select the desired song.

For more about playing songs and other playback operations, see **Song Playback** on page 14.

Song Playback Functions

Using the PAUSE, REW and FWD Buttons

Controlling the playback operations of the instrument is exceptionally easy, since the playback controls are the same type as found on conventional tape recorders. We've seen how to use the **PLAY** and **STOP** buttons above; now, we'll look at the other playback controls: **PAUSE**, **REW** and **FWD**.



PAUSE

Press this during playback to pause the Song. (Both the PAUSE and PLAY lamps light.) You can continue playback from the paused position by pressing PAUSE again or PLAY.

NOTE

•Pressing this when playback is stopped pauses playback at the beginning of the Song. (Both the PAUSE and PLAY lamps light.) Press PAUSE again or PLAY to start playback from the beginning of the Song.

•When pausing playback in the middle of a Song, received Key On messages will be ignored. However, the MDP2/DOU-10 properly responds to such messages when playback is started from the beginning of the Song.

REW / FWD

● Hold down REW to rewind continuously to the beginning of the Song. (The Measure/Time indication in the display changes continuously as well.)

• Hold down FWD to advance continuously to the end of the Song. (The Measure/Time indication changes. Also, if you use this during playback, the sound is played back at high speed, allowing you to easily cue up to a desired point in the Song.)

REW and **FWD** can be used either during playback or when playback is stopped.

If used during playback, releasing either button causes playback to automatically start from that point. If used in the paused or stopped condition, releasing either button causes playback to automatically pause from that point. (Both the **PAUSE** and **PLAY** lamps light.)

Muting Parts During Playback

While a Song is playing back, you can selectively take out (or mute) some of the instrument Voices or **Parts** of the Song. For example, this would allow you to mute a solo trumpet Part in a Song so that you could practice playing the solo trumpet instead.

To mute a Part:

During playback, press the appropriate Part button: RIGHT, LEFT or OTHERS. (The lamp goes out when the Part is muted, and the Play indication for the Part in the display flashes.)

The **RIGHT** button turns Part 1 on and off. The **LEFT** button turns Part 2 on and off. The **OTHERS** button turns all other Parts (3 - 16) on and off.

In the example below, the **RIGHT** button was pressed, muting Part 1.





Play indication for Part 1 flashes.

NOTE

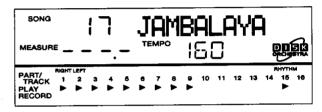
- Parts 1 and 2 can be independently muted or played, but Parts 3 16 can only be muted or played as a group. (However, any of Parts 3 16 can be reassigned to Parts 1 and 2; see Part Assign on page 14 for details)
- Many Disk Orchestra Collection and PianoSoft disks have been recorded with separate left- and right-hand Parts. With these disks, you can independently mute or play these Parts by using the coresponding **RIGHT** or **LEFT** Part button.

Changing the Tempo

You can change the playback speed of a Song, either before playing it or while it is playing, by controlling the tempo. One good use for this is to slow down the tempo of a Song to make it easier to practice or play along with.

To change the tempo:

Make sure the Song display is selected. (Press the DISPLAY button until "SONG" is shown in the upper left of the display.)



Before or during playback, change the tempo setting by using the TEMPO/VOLUME buttons.



Holding down either button allows you to move rapidly through the values. The tempo range is from 32 - 280 bpm (beats per minute).

Restoring the Original Tempo Setting

Stopping the Song automatically restores the original tempo setting. You can also restore the original tempo setting instantly during playback by pressing both **TEMPO/VOLUME** buttons simultaneously.

When there is no recorded Song, the value here becomes 120 bpm.

NOTE

- •Some Songs (including the internal Demo Song) have tempo changes within the Songs themselves.
- •Also, some Songs may not have any tempo or beat indication.
- •Be careful when playing songs having many tempo changes. If you rewind such a song and play it back again, it may not play back at the correct tempo.

Changing Individual Voices and Their Volume

The MDP2/DOU-10 has a wealth of high-quality instrument Voices — 61 in the Disk Orchestra (**doc**) mode and 128 in the General MIDI mode. But it also gives you enormous flexibility in controlling these Voices. You can take over the role of arranger and orchestrator of the recorded Songs, changing the instrument Voices and adjusting their levels.

To change a Voice and its Volume setting:

Before or during playback, use the PART/TRACK **◄/▶** buttons to select a Part in the display.



The display automatically changes to the Voice display, and the box indication appears around the selected Part number.

	VOICE	E	Ē) (] 	_	R		_	ki ii	Gi Di	. . :	įţ).E	1 6		
•	PART/ TRACK PLAY RECORD	RIGHT 1 ▶	LEFT 2 ▶	3		5	6	7	8	•	10	11	12	13	14	15 ▶	M 16

In this example, Part 4 is selected.

The Voice name, number and the current Volume setting are shown.

NOTE

In the **doc** mode, only Parts 1 - 10 and 15 are available (15 is reserved for the Drum Kit). In General MIDI mode, all Parts 1 - 16 can be selected (10 is reserved for the eight Drum Kits).

Change the Voice by using the SONG/VOICE buttons.



Holding down either button allows you to move rapidly through the Voice numbers. You can also jump through the Voice numbers in steps of ten by simultaneously holding down the **SHIFT** button and pressing the appropriate **SONG/VOICE** button (**V**or **A**).

Change the Volume setting by using the TEMPO/ VOLUME buttons.



Hold down either button to move rapidly through the Volume settings. You can also jump through the values in steps of ten by simultaneously holding down the SHIFT button and pressing the appropriate TEMPO/VOLUME button (▼ or ▲). Volume range is from 0 to 127.

Restoring the Original Voice and Volume Settings

Stopping the Song automatically restores the original Voice and Volume settings. You can restore the original Voice setting even during playback by pressing both **SONG/VOICE** buttons simultaneously. You can restore the original Volume setting instantly by pressing both **TEMPO/VOLUME** buttons simultaneously.

Muting a Specific Part — Minus One Listening to a Specific Part — Solo

These two convenient operations are different sides of the same coin. Minus One lets you mute a single Part, so that you can hear what the other Parts sound like without it. Solo, on the other hand, lets you listen to a single Part, by muting all other Parts.

Minus One in particular is ideal for practice purposes since it lets you play the Voice of the muted Part. For example, you could use Minus One to mute the melody Part in a Song, and then practice playing that Part yourself. Solo could also be used for practicing, letting you mute all but a certain Part that you want to play along with.

NOTE

Minus One and Solo cannot be used at the same time. They also cannot be used during recording or recording standby.

Minus One

Press the MINUS ONE button. (The MINUS ONE lamp lights, and the display changes to the Voice display.)





Currently selected Part and Voice are shown.

Part Play indicator flashes, indicating that Part is being muted.

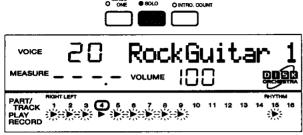
Minus One is now active for the currently selected Part.

2 If you wish to mute a different Part, use the PART/TRACK **◄/▶** buttons to select the Part.



Solo

Press the SOLO button. (The SOLO lamp lights, and the display changes to the Voice display.)



Currently selected Part and Voice are shown.
Play indicator of selected Part is lit. All other Part Play indicators flash, indicating that those Parts are being muted.

Solo is now active for the currently selected Part.

2 If you wish to solo a different Part, use the PART/TRACK ◀/▶ buttons to select the Part.



Song Recording

The sophisticated and convenient recording features make the MDP2/DOU-10 an extremely powerful tool for capturing your own performances and creating your own fully orchestrated, multi-tracked songs.

Formatting a Blank Disk

Before you can record, you'll need a blank floppy disk on which to save your recorded data. And before you can use a blank disk, it must be properly formatted.

NOTE

Before recording, you can select the Sound Module mode. (For information on selecting the Sound Module mode, see page 16.)

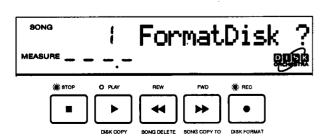
Insert a blank 2DD floppy disk.

Disks that can be used are 2DD Double-density disks of 720K (9 sectors). Also make sure that the disk's write-protect tab is set to the "write enable" position. If it isn't, you won't be able to record.





The Format operation is automatically called up when a blank or incompatible disk is inserted. (The messages "Unformat Disk" and "Format Disk?" appear consecutively in the display, and the lamps of the STOP and DISK FORMAT buttons flash to indicate standby.)



Press the DISK FORMAT button. When the "Are you sure?" message appears, press the DISK FORMAT button again. (If you wish to cancel formatting, press the STOP button and eject the disk.)



While the disk is being formatted, the display gives a rough indication of the time or disk space remaining, from 80 down to 0.

When 0 is reached, formatting is completed and the display returns to the Song display.

NOTE

For information on re-formatting a disk, see page 18.

Recording a Song

Now that you have inserted a blank, properly formatted disk, you can begin recording. In the rest of this section, you'll learn how to record a Song.

Step by step, the basic operation is given below:

- Select a Song number and press the REC button.
- **2** Select the Track and Voice.
 - If necessary, use Metronome or Intro. Count for a rhythmic guide.
 - Set the time signature (Beat) and tempo.
- 5 Start recording.

As you record a Song for the first time, take care to follow these instructions carefully and in the order given.

Measure/Time Display

Before recording you may want to change the Measure/ Time display indication. Using Measure for the display is generally more useful when recording a Song. (See page 16 for instructions.)

Se So

Select a Song number and press the REC button.

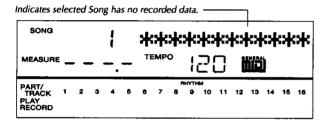
Selecting a Song number isn't absolutely necessary if you've inserted a blank disk – in that case, Song number 1 will automatically be selected. Once you have some Songs recorded to a disk, though, you'll need to select a Song before recording.



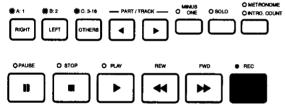
Each floppy disk has memory space for up to 60 Songs and up to approximately 50,000 notes can be recorded. This number will vary, however, depending on the type of data recorded.

Operation

1. Use the **SONG/VOICE** buttons to select a Song number.



2. Press the REC button.



These lamps flash in red, indicating corresponding Tracks can be selected for recording, and the REC lamp lights.

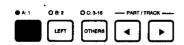


Select the Track and Voice.

Since there are sixteen independent Tracks (or eleven, in the **doc** mode), you can record different instrument sounds (Voices) to these Tracks to create a complete Song.

Operation

1. Press the **A**, **B** or **C** button corresponding to the Track you wish to record. For example, to record to Track 1, press **A**. To record to Track 2, press **B**.





The lamp above the button you pressed lights continuously in red, and the RECORD dot in the display corresponding to the selected Track flashes. The PLAY lamp flashes to indicate recording standby.

Pressing C allows you to record to one of Tracks 3 - 16. Select one of these "Other" tracks by using the PART/ TRACK ◀/▶ buttons.



NOTE

In the **doc** mode, Tracks 11 - 14 and 16 cannot be selected for recording. (The RECORD dots of those Tracks in the display do not flash.)

You can cancel the Track selection here by pressing the **STOP** button. This also cancels recording standby, so if you want to re-select a Track for recording, you'll have press the **REC** button again first.

2. Now that you've selected a Track, select the Voice that will be recorded to it with the **SONG/VOICE** buttons.



The newly selected Voice number and name are shown in the display.



Use Metronome or Intro. Count for a rhythmic guide.

The built-in Metronome and Intro. Count functions provide a rhythmic guide for you as you record. Intro. Count provides two measures of a click sound, leading in to the start of the recording. Metronome, on the other hand, provides a constant click, whether you're recording or not – making it also ideal for hearing the time signature and tempo settings you make in the next step.

The click is accented on the first beat of each measure so that you can easily hear the "one" (or the top of the measure). If you need to, you can also change the volume of the Metronome or Intro. Count click; see page 18.

Operation

To use Metronome:

Press the METRONOME/INTRO. COUNT button so that the METRONOME lamp lights.



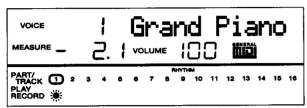
The click starts immediately, and continues throughout recording.

To use Intro. Count:

Press the METRONOME/INTRO. COUNT button so that the INTRO. COUNT lamp lights.



The click starts as soon as you press the **PLAY** button to start recording (see "Start Recording" below). The click continues for two measures and continues throughout recording.



The Measure indication in the display counts down from -2.1 to the start of the Song.

To turn either Metronome or Intro. Count off:

Press the METRONOME/INTRO. COUNT button so that both lamps are off.

- ♠ NOTE
 - If the Time display is selected, Intro. Count is not available.
 - When Intro. Count is on, recording can only be started by pressing the PLAY button (and not by pressing a key on the connected keyboard).

4 Set the time signature (Beat) and tempo.

These settings are made just once, before you actually record. The default time signature is 4/4. If you plan on recording in 4/4, there is no need to set the time signature here.

A HINT

For ease in making the time signature and tempo settings, turn on the Metronome. It outputs a steady click (even when playback and recording are stopped) so that you can hear the settings you make. (See section above.)

Operation

1. While in recording standby, press and hold down the **DISPLAY** button for about three seconds, until the following display appears:





A NOTE

If the "Quantizing" display appears instead, use the SONG/VOICE buttons to change it to "Beat Setting."

2. Use the **TEMPO/VOLUME** buttons to select the desired time signature.



Available time signatures:

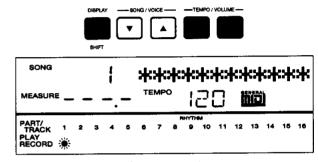
In General MIDI mode – 2/2, 1/4, 2/4, 3/4, 4/4, 5/4, 6/8, 9/8, 12/8

In **doc** mode -2/4, 3/4, 4/4

NOTE

The time signature cannot be changed once a Track has been recorded.

3. Press the **DISPLAY** button to return to the Song display. From here, you can set the tempo by using the **TEMPO/VOLUME** buttons.

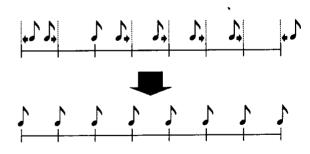


Tempo range: 32 - 280 beats per minute

Set the Quantize value. (Optional)

Quantize is an very useful and powerful function that helps you make rhythmically "tight" recordings — even if your playing isn't very tight. It automatically aligns notes to the nearest beat as you record.

You can also specify the beat resolution for this function. For example, you can set Quantize so that all the notes you play will be exactly on eighth-note beats.

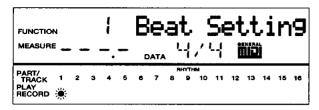


CAUTION!

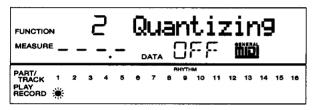
Keep in mind that the Quantize operation permanently and irretrievably alters your recorded performance. If you are not satisfied with the results of Quantizing, the only solution is to record the Track again, preferably without Quantizing. If needed, you can then use the Post-recording Quantize function that lets you Quantize a track **after** you've recorded it. (See page 20 for more information.)

Operation

1. While in recording standby, press and hold down the **DISPLAY** button for about three seconds, until the following display appears:



2. Use the **SONG/VOICE** buttons to select the "Quantizing" display.



3. Use the **TEMPO/VOLUME** buttons to select the desired Quantize value.

Quantize Values:

OFF: No quantization

1/4: Quarter-note 1/8: Eighth-note

1/12: Eighth-note triplets

1/16: Sixteenth-note

1/24: Sixteenth-note triplets

1/32: Thirty-second-note

A HINT

Always use a Quantize value that is at least as short as the shortest notes you will be recording. For example, if you set the Quantize value to 8th notes but actually record 16th notes, some of the 16th notes will be aligned with the 8th note beats, thus ruining the recording.

NOTE

When recording is stopped, the Quantize value returns to the default setting of OFF.

5 Start recording.

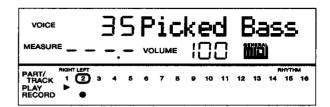
Start recording by pressing the **PLAY** button. (Both the **PLAY** and **REC** lamps light continuously during recording.)

From recording standby, you can also start recording by playing a key on the keyboard. Recording starts immediately and automatically when you play the first note (or when the MDP2/DOU-10 receives any MIDI data).

Stop recording by pressing the **STOP** button.

Now that you've recorded your first track, press the **PLAY** button to hear it. You can go on and record additional Tracks to your new Song, while listening to the previously recorded Track(s). Do this by: 1) pressing the **REC** button 2) selecting the Track and Voice, and 3) starting recording by pressing the **PLAY** button.

Tracks with previously recorded data are indicated by triangles in the PLAY row of the display. (Other tracks are empty.) Try also using a different Voice for each Track to "fill out" the sound and create multi-instrument arrangements.



CAUTION!

Be careful in recording when one or more Tracks have already been recorded. If you select a previously recorded Track for recording, the previous data will be completely erased and replaced by the new material. (For more on recording and other recording methods, see page 17.)

HINT

You can also use the **PAUSE** button during recording. Press it once while recording a Track to pause recording, and press it again (or play a key on the keyboard) to resume recording from where you left off.

NOTE

The performance you've recorded is automatically given a Song name: "Song No. ##" (## = number of Song). If you wish, you can assign a different name to the Song; see page 16.)

Reference

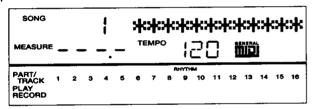
The Reference section is a comprehensive guide to all the functions of the MDP2/DOU-10. You won't need or want to read all of it at once, but it is there for you to refer to when you need information about a certain feature or function.

Song Playback

For instructions on basic Song playback operations, refer to the section **Playing the Demo Disk** on page 7.

Compatible disks include: Clavinova Disk Orchestra Collection (doc) disks, General MIDI (GM) disks, and PianoSoft disks for the Disklavier piano. When the Songs on disk are of the General MIDI or PianoSoft type, the General MIDI logo appears in the display and the General MIDI mode is automatically selected. When the Song type is Clavinova Disk Orchestra Collection (doc), the display shows the Disk Orchestra logo and the doc mode is automatically selected. Compatible file types include Standard MIDI File (format 0) and ESEQ (MSDOS format, 720 K, 9 sectors). (However, Songs of the last two types may not be correctly played back if "GM on" or "doc on" messages have not been recorded with the files.)

When the disk has no recorded songs, the following display appears:



When a song is selected, the following data is reset, according to the song's settings:

- Track on/off
- · Part on/off
- Voices
- Tempo
- · Minus One and Solo are automatically set to off

Part Assign

This operation lets you override the default Part assignments (shown below), and assign whichever Parts you like to the A, B and C buttons. Re-assigning Parts according to your own preferences allows you quickly to mute and un-mute those Parts you use most often.

Part Assign Default Settings

Part 1: A

Part 2: B

Parts 3 - 16: C

O A:1 O B:2 O C:3-16

CAUTION!

You should keep notes on the Part Assign settings you make, to avoid confusion and inadvertent erasing of Parts during recording.

NOT

Part Assign can also be used in Multi-track recording. (See page 18 for details.)

Operation

First, select the Part you wish to re-assign by using the PART/TRACK buttons. Then, while playback is stopped, simulta-

neously hold down the **SHIFT** button and press the appropriate Part button, **A**, **B** or **C**. (The lamp of the selected Part button lights.)

To check the current Part Assign settings:

Select the desired Part, then hold down the **SHIFT** button; the lamp of the assigned Part button lights.

To assign additional Parts to the same button, repeat the operation

Repeat Playback Functions

The Repeat Playback functions allow you to repeat specific sections of a Song, an entire Song, or all Songs on a disk. These functions are:

- A-B Repeat
- Phrase Repeat
- Song Repeat





The A-B Repeat, Phrase Repeat and Song Repeat functions cannot be used simultaneously.

MA-B Repeat

A-B Repeat lets you specify a certain section in a Song, and repeatedly play it back. This is especially useful for practicing, allowing you to concentrate on a certain passage until you "get it right."

Operation

- 1. During playback or while playback is paused at the desired start point, press the **A-B REPEAT** button to mark the "A" position. (The **A-B REPEAT** lamp flashes.)
- 2. When playback reaches the desired end point, press the A-B REPEAT button again to mark the "B" position. (The A-B REPEAT lamp lights continuously.) Repeat playback of the marked section begins immediately. You can use the transport buttons to control playback.

The "A" and "B" points can only be set at measure boundaries, and not in the middle of a measure.

NOTE

As long as the A-B REPEAT lamp is lit, A-B Repeat is active, and all transport buttons (except REC) can be used. However, you cannot move to positions in the song before point "A" or beyond point "B."

3. You can cancel A-B Repeat by pressing the A-B REPEAT button again while playback is stopped or paused. (The A-B REPEAT lamp goes out.) Pressing the button during playback also cancels A-B Repeat; however, normal playback continues. A-B Repeat can also be canceled automatically by changing the Song.

Marking Only the "A" Point

In a variation of A-B Repeat, you can mark only the "A" point in a Song. This provides a convenient "memory return" function, as found on many tape decks.

To do this, simply set the "A" point as described in step 1, without setting the "B" point. (The **A-B REPEAT** lamp should stay flashing.) During playback, you can instantly return to "A" and start playback from that point by pressing the **STOP** button and then **PLAY**.

■ Phrase Repeat

Phrase Repeat, like A-B Repeat, allows you to repeat specified sections of a Song. This function is designed for use with the Clavinova Disk Orchestra Collection disks, and can only be used with Songs which have pre-programmed Phrase Marks. (Phrase Marks cannot be set on the MDP2/DOU-10 itself.)

Operation

1. With playback stopped (and the A-B REPEAT lamp off), press the PHRASE REPEAT button. (The lamp lights.) Then, select the desired Phrase Number by using the TEMPO/VOL-UME buttons.

NOTE

If the disk has no Phrase Marks, the message "No Phrase Mark" appears in the display when the PHRASE REPEAT button is held down.

2. Press the PLAY button to start playback. The selected Phrase will play back repeatedly.

NOTE

As long as the PHRASE REPEAT lamp is lit, Phrase Repeat is active, and all transport buttons (except REC) can be used. However, you cannot move to positions in the song before or after the selected Phrase Marks.

3. You can cancel Phrase Repeat by pressing the PHRASE RE-PEAT button again while playback is stopped or paused. (The PHRASE REPEAT lamp goes out.) Pressing the button during playback also cancels Phrase Repeat; however, normal playback continues. Phrase Repeat can also be canceled automatically by changing the Song.

■ Song Repeat

Song Repeat allows you to easily repeat playback of the selected Song or Songs.

Operation

1. Make sure a disk is in the disk drive, and press the SONG REPEAT button. (One of the Repeat modes is called up and the SONG REPEAT lamp lights.) Select the desired mode of Repeat Playback with the TEMPO/VOLUME buttons.

All Repeat -

Repeatedly plays back all Songs on disk

in original order.

Single Repeat -Repeatedly plays back the currently

selected Song.

Random Repeat - Repeatedly plays back all Songs on disk

in a random order. (The order changes

with each repetition.)

2. Start playback by pressing the PLAY button. The Songs (or Song) repeat indefinitely until the STOP button is pressed.

- The Part Muting, Minus One and Solo functions can all be used during Song Repeat.
- Pressing the SONG REPEAT button has no effect during recording or recording standby.
- 3. Cancel Song Repeat by pressing the SONG REPEAT button again. (If you cancel during playback, the lamp goes out and the current Song continues to play back normally.)

Using the INPUT Jacks

The stereo INPUT jacks on the rear panel allow you to mix the audio output of another instrument with the sound of the MDP2/DOU-10. For example, you can play an electric guitar while a Song is playing back, and hear everything from the outputs of the MDP2/DOU-10. In another application, you could connect a CD player or cassette deck to the inputs and

play the Voices of the instrument along with your favorite recorded music.

Operation

- 1. With all relevant volume/level controls turned down, connect the external instrument to the INPUT jack(s). If the instrument only has one output, connect it to the L/MONO jack.
- 2. Set the INPUT SELECT switch to the appropriate position (GUITAR for guitars and low level signals, LINE for line level signals, such as keyboards). Play the instrument and slowly turn all volume/level controls (including INPUT VOL on the rear panel) up to an appropriate listening level.

Playback Functions

The Playback functions of the instrument allow you to set various functions, such as key transposition (as recorded to disk), tuning, Reverb type, Song name, amount of playback delay, and others. Among these, Reverb, Sound Module mode and Song name can be saved independently for each Song on a disk.

Operation

- 1. Call up the Playback function pages (during playback or when playback is stopped) by pressing and holding down the DISPLAY button for about three seconds. (The display changes to the Function display.)
- 2. Select the desired Playback function (1 8) by using the **SONG/VOICE** buttons.

Playback Functions

- 1: Disk Transpose
- 2: Tuning
- 3: Reverb
- 4: Key Delay
- 5: Touch Change
- 6: Measure/Time Display
- 7: Sound Module Mode
- 8: Song Name

NOTE

Functions 6, 7 and 8 can only be changed when playback is stopped. Function 7 can only be selected for Song numbers having no data.

- 3. Make the desired setting (shown next to "DATA" in the display) for the selected function by using the TEMPO/VOLUME buttons.
- 4. To exit from the Playback function pages, press either the DISPLAY button or the STOP button.

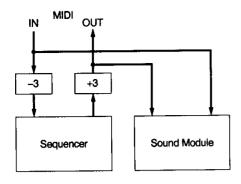
■ 1 – Disk Transpose

Settings: +/- 6 semitones

Default: 0

This determines the playback key (pitch) of all tracks (excepting those using the drum kits). The most common use of Disk Transpose is to change the key of recorded tracks to match a vocalist or another instrument.

Disk Transpose has no effect on the internal Voices when simply using a MIDI keyboard to play the MDP2/DOU-10 as a sound module. However, it does change the key of incoming MIDI data being recorded to disk - by the same amount but in the opposite direction of the Disk Transpose setting (see below). In this way, the transposed tracks will playback in the same key that you played them when recording.



NOT

The Disk Transpose setting has no effect on Parts using any of the

■ 2 - Tuning

Range: 415 - 466 Hz (+/- 100 cents)

Default: A3 = 440 Hz

This determines the fine pitch setting of the internal Voices. The total adjustable range is 100 cents, or one semitone. When the power is turned on, this is automatically set to the default of A3 = 440. You can also restore the default setting by simultaneously pressing both **TEMPO/VOLUME** buttons.

■3 - Reverb

Settings: 1 (Off), 2 (Room), 3 (Hall 1), 4 (Hall 2), 5 (Cosmic) Default: 4 (Hall 2)

This determines the type of Reverb effect applied to the internal Voices. Reverb reproduces the characteristic ambient sound of several different performance environments and adds depth and warmth to the sound.

Off - No Reverb effect.

Room – Simulation of a medium-size room.

Hall 1 - Simulation of a medium-size concert hall.

Hall 2 - Simulation of a large concert hall.

Cosmic - Special reverb/delay effect.

O NOT

When a Song on disk has a recorded Reverb setting, that takes priority over any setting made on the instrument itself.

■ 4 - Key Delay

Range: OFF, 5 - 500 ms (adjustable in 5-millisecond steps)
Default: OFF

This allows you to delay the internal Voice output of the instrument. Key Delay is specifically designed for use with acoustic/MIDI instruments that have a slight playback delay, such as the Yamaha Disklavier Piano. Adjusting the Key Delay to an appropriate value allows you to synchronize playback of the internal Voices with such instruments.

NO NO

When a delay is set here, the measure display and the flashing of the beat lamp will be out of synchronization with the playback sound.

■ 5 – Touch Change Settings: ON, OFF Default: OFF

This is a special function which modifies the note velocity values of data played back from Disk Orchestra Collection and

PianoSoft disks to match the velocity response of certain Clavinova models. Touch Change should be set to ON when using such disks with the following models: CLP-20, CLP-30, CLP-50, CLP-100, CLP-200, CLP-300, CLP-500, CVP-3, CVP-5, CVP-6, CVP-7, CVP-8 and CVP-10.

Touch Change is automatically set to OFF when the power is turned on.

■ 6 - Measure/Time Display

Settings: 1 (Measure), 2 (Time)

Default: 1 (Measure)

This determines how elapsed time of a Song is displayed: in beats and measures, or in absolute time. This can only be changed when playback is stopped.

■ 7 – Sound Module Mode

Settings: doc, GM Default: GM

This determines which mode of the internal Voices is used in recording. The modes are:

doc - Disk Orchestra Collection

- Voices and Drum Kit are set to Disk Orchestra Collection (see pages 25 and 26)
- Available Parts: 1 10, 15 (15 is reserved for drums)

GM - General MIDI

This mode is compatible with General MIDI system level 1.

- Voices and Drum Kit are set to General MIDI (see pages 25 and 26)
- Available Parts: 1 16 (10 is reserved for drums)



The Sound Module mode can only be set for Songs having no recorded data, and only when playback is stopped.

If no disk has been inserted, General MIDI (GM) is automatically selected when power is turned on. However, this automatically changes to Disk Orchestra Collection (doc) when playing the internal Demo Song.

■ 8 – Song Name

This function allows you to assign a name to a Song, of up to eight characters in length.

Operation

- 1. From the "Input Name?" or "Rename?" display, press one of the **TEMPO/VOLUME** buttons. (When the selected Song has no name, the "Input Name?" display appears; when the selected Song already has a name, the "Rename?" display appears.)
- 2. The display changes to allow input of the name. Use the **SONG/VOICE** buttons to move the cursor to the desired character position.

DETAIL

If the Song has no previously assigned name, it is displayed as "Song No. ##" (## = actual number).

3. Use the **TEMPO/VOLUME** buttons to select a character at the current cursor position. (Changing a character causes the **REC** and **STOP** lamps to flash.)

The available characters are listed below:

0123456789 ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdef9hijklmnop9rstuvwxyz !"#\$%%*()*+,-./#\$<=>?[¥]^_`{|}←→ アイウェオカキクケコサシスセソタチツテトナニ タネナハヒフヘホマミムメモヤユヨラリルレロワンペラ ー。「」、・ヲァィウェオヤユヨッ

4. Repeat steps 2 and 3 above until the entire Song name has been entered. Press the REC button to save your new Song name, or press the STOP button to cancel.

NOTE

Song Name can only be used when the inserted disk is set to write enable, and when playback is stopped.

Song Recording

For instructions on basic recording operations, refer to the section Recording a Song on page 10.

Additional Recording Operations

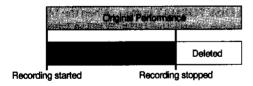
In addition to the basic recording operation, there are other methods of re-recording performances on existing Tracks: Overwrite, Punch-in, Overdub. A Multi-track recording function is also available for simultaneously recording to more than one Track.

NOTE

Re-recording (or editing) can only be done to Song data actually recorded on a MDP2/DOU-10 or data copied from a doc disk. Also, to record there must be enough remaining space on the disk (equal to the amount of data of the Song itself). Check the remaining disk capacity (page 20) before rerecording or editing.

Overwrite Recording

Overwrite recording completely replaces any performance on the selected Track with the newly recorded performance.



Operation

Set recording to standby (in the stopped condition) by pressing the REC button and select the Track you wish to overwrite. Then press the PLAY button (or a key on the keyboard) to start recording, and record the new performance. Press the **STOP** button to stop recording.

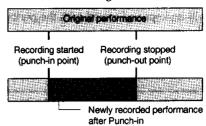
Keep in mind that all recorded data that was originally in the Track is completely replaced with the newly recorded performance. This means that even if you stop recording midway through a Track, even the original data after the point you stopped recording is erased.

HINT

Overwrite recording can also be used to quickly erase all data from a Track. To do this, simply start recording as described above and press the STOP button without playing any notes on the connected keyboard.

Punch-in Recording

Punch-in recording lets you record over a specific section of a recorded Track - without erasing other sections of the Track.



Punch-in recording is handy, for example, when you need to fix a small mistake in a Track that is otherwise fine, or when you want to change just a couple of measures of a Track without having to record the whole Track over again.

Operation

1. Cue up (locate) the point in the Song at which you want to start Punch-in recording and pause playback at that point.

You can do this by playing back the Song normally and pressing the PAUSE button at the proper point, or by using the REW and FWD buttons (which automatically set operation to pause when released, when used in the paused or stopped condition).

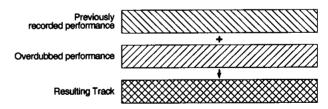
2. Set recording to standby (in the paused condition) by pressing the REC button and select the Track for recording. Then, press PLAY or PAUSE (or a key on the keyboard) to start recording, and record the new performance. Press the STOP button at the point you wish to "punch out" or stop recording.

CAUTION

Keep in mind that Punch-in recording erases all previous notes of a performance that occur between the punch-in and punch-out points. Notes which start outside these points are kept.

Overdub Recording

Overdub recording allows you to record to a Track without erasing the previously recorded performance. Overdub is particularly useful for recording rhythm parts, since it lets you record additional drum and percussion sounds "over" previous ones, allowing you to easily build up complex rhythm patterns.



Operation

1. Set recording to standby (in the stopped condition) by pressing the REC button and select the Track for Overdub recording. (The Track must have previously recorded data.)

The PLAY and RECORD indicators for the selected Track in the display alternately flash, indicating the Overwrite recording mode.



These both flash to indicate Overwrite recording.

2. Press the REC button again to enable Overdub recording.

The PLAY indicator is now lit continuously while the RECORD indicator flashes, indicating that the previously recorded performance will be kept and mixed with the performance to be overdubbed.



PLAY indicator lights continuously and RECORD indicator flashes to indicate Overdub recording.

3. Press the **PLAY** button (or a key on the keyboard) to start recording, and record the new performance. Press the **STOP** button to stop recording.



•Only note on/off data can be recorded in Overdub recording. Other data such as program changes and volume data cannot be overdubbed, except at the very beginning of the overdub point. To replace that data, press the REC button again a third time after step 2 above.

• For **doc** Songs, if you set a new tempo value for the start of the Song, all tempo changes within the Song will be automatically reset relative to the starting tempo value (relative tempo). For General MIDI Songs, the tempo changes within the Song remain as they were recorded (absolute tempo).



You should try to avoid overdubbing the same note (key) at around the same time; the original note durations may change as a result.

Multi-track Recording

Multi-track recording allows you to simultaneously record performances to more than one Track. For example, with a properly equipped MIDI keyboard, you can simultaneously record your left hand's performance to one Track and your right hand's to a separate Track. Or you could record the same keyboard performance to several different Tracks at once, for a unison layer of several different Voices. This feature also lets you record rhythm styles from keyboards such as the Yamaha PSR-series in a single pass.

In Multi-track recording all Tracks are recorded according to the corresponding MIDI channels of the incoming data. In other words, data received from the connected keyboard on MIDI channel 1 is recorded to Track 1, data received on channel 2 is recorded to Track 2, and so on.

Multi-track recording can be done in two different ways. Use Operation A below when you want to assign a specific number of Tracks for recording. Operation B is for simultaneous recording to all sixteen Tracks (or eleven tracks, in the case of **doc** mode).

CAUTION!

Keep in mind that all previously recorded data in the selected Tracks will be replaced with the newly recorded performance. Be especially careful when using Operation B below, since this erases previously recorded data on all sixteen (or eleven) Tracks.

Operation A

- 1. Assign the Tracks to be recorded by pressing one of these buttons: A:1, B:2 or C:3-16 (default). (Refer to Part Assign on page 14 for instructions on assigning Tracks.) Press the REC button. Then, press the appropriate button to which the Tracks have been assigned, to select those Tracks.
- 2. Simultaneously press both PART/TRACK
 ✓/▶ buttons. All assigned Tracks are now selected for recording. The lamps of the assigned buttons light in orange to indicate Multi-track recording.
- 3. Press the **PLAY** button (or a key on the keyboard) to start recording, and record the new performance. Press the **STOP** button to stop recording.

Operation B

- 1. Press the REC button.
- 2. Simultaneously press both PART/TRACK
 ✓/▶ buttons. All Tracks are now selected for recording.
- 3. Press the **PLAY** button (or a key on the keyboard) to start recording, and record the new performance. Press the **STOP** button to stop recording.

HINT

Punch-in and Overdub recording can also be used with Multi-track recording, after step 2 above. (Follow the instructions in those respective sections, on page 17.)

Changing the Level of Metronome and Intro. Count

The click level of the Metronome and Intro. Count functions (explained on page 11) can be adjusted. To do this, first simultaneously hold down the **SHIFT** button and press the **METRONOME/INTRO.** COUNT button, then adjust the level by using the **TEMPO/VOLUME** buttons. The range is 0 - 127. Press the **SHIFT** button again or the **STOP** button to return to the previous display.

Disk/Song Operations

The disk- and song-related operations of the instrument are:

- · Disk Format (Re-formatting)
- Disk Copy
- Song Copy
- Song Delete
- Post-recording Quantize

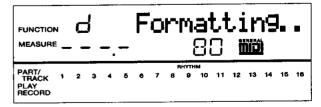
■ Disk Format

This operation allows you to re-format a MDP2/DOU-10 formatted disk.

Operation

- 1. Insert a previously formatted disk. (Blank or incompatible disks automatically call up the Format operation.) Then, simultaneously hold down the SHIFT button and press the DISK FORMAT button. (The "Format Disk?" message appears and the lamps of the STOP and DISK FORMAT buttons flash to indicate standby.)
- 2. Press the **DISK FORMAT** button. When the "Are You Sure?" message appears, press the **DISK FORMAT** button again to start formatting or press the **STOP** button to cancel.

While the disk is being formatted, the display gives a rough indication of the time or disk space remaining, from 80 down to 0.



When 0 is reached, formatting is completed and the display returns to the Song display.

Disks that can be formatted:

Use only 2DD Double-density disks of 720K (9 sectors). Also, make sure that the write-protect tab is set to the "Write Protect" or "Write Enable" position.

■ Disk Copy

This operation allows you to copy all the data on one disk to another disk. Make sure that the destination disk has been properly formatted (see Disk Format, page 18) and that the disk has no data you wish to keep. (All data on the destination disk is erased and replaced with the source disk's data.)

Operation

- 1. Set the write-protect tab of the source disk (the one with the data to be copied; referred to as "Disk A") to the "Write Protect" position.
- 2. Insert the source disk (Disk A). Keep the destination disk (Disk B) handy; you'll be alternately inserting it and disk A
- 3. Simultaneously hold down the SHIFT button and press the DISK COPY button. (The "Disk Copy A to B" message appears and the lamps of the STOP and REC buttons flash to indicate standby.)
- 4. Press the REC button to start copying, or the STOP button to
- 5. For the remainder of the operation, follow the prompts on the display. You should:
- a. Eject Disk A after a portion of the data is read.
- b. Insert Disk B to copy the data.
- c. Eject Disk B after the data has been copied.
- d. Reinsert Disk A to start the process again for the next portion of data.

CAUTION!

Be extremely careful not to confuse Disk A with Disk B in the above process. You may inadvertently erase or corrupt important data by mixing up the two disks. To avoid erasing data on the source disk (Disk A), we recommend that you first set the write-protect tab of that disk to the "Write Protect* position (in step 1 above).

6. Repeat the process (a. - d.) in step 4 several times, until all data has been copied from Disk A to Disk B. (A "Completed" message appears and the display returns to the Song display.

NOTE

- Depending on the amount of data to be copied, the floppy disks may have to be changed ten or more times before all data is copied. Carefully follow the instructions in the display during the operation.
- Disk Copy does not function when the destination disk (Disk B) is writeprotected. Set the write-protect tab on the disk to the "Write Enable" position, then try the operation again.
- · During the copying operation, a number is shown in the display, counting down from 80 to 0.
- To cancel the copy operation, press the STOP button. (A "Copy Canceled" message appears in the display.)

■ Song Copy

This operation allows you to copy the data of a selected song to another song number on the same disk, or one on another disk. The destination song number must be empty (no recorded data).

- 1. With an appropriate disk in the drive, select the source Song number (the Song whose data you wish to copy), using the **SONG/VOICE** buttons.
- 2. Simultaneously hold down the SHIFT button and press the **SONG COPY TO** button. (The "Song Copy To ##" message appears and the lamps of the STOP and REC buttons flash to indicate standby.)

- 3. Select the destination Song number with either the TEMPO/ **VOLUME** buttons.
- 4. Press the **REC** button to start copying, or the **STOP** button to cancel. ("Song Copying" and "Completed" messages will appear in the display during and after the operation.)

When the operation is completed, the display returns to the Song display.

NOTE

If you attempt to copy a Song to a disk which already has data for all 60 Songs, a "No Empty Song" message appears in the display. Copy the Song to another disk (see below).

Copying to Another Disk (Optional)

If you are copying to another disk, go through steps 1 and 2 above, then follow these instructions:

- Eject the disk with the source Song (Disk A).
- Insert the destination disk (Disk B), and select the destination Song number.
- 3. Press the REC button to start copying. (or STOP to cancel).
- 4. Eject Disk B (as prompted in the display).
- 5. Insert Disk A, then eject it (as prompted) after a portion of the data is read.
- 6. Insert Disk B to copy the data, then eject it (as prompted) after the data has been copied.
- 7. If necessary, reinsert Disk A to start the process again for the next portion of data.
- 8. Follow the prompts on the display, repeating the process (steps 5 - 7) as many times as necessary, until a "Completed" message appears.

NOTE

- ·Song Copy does not function when the disk is write-protected. Set the write-protect tab on the disk to the "Write Enable" position, then try the operation again.
- •When attempting to copy Songs from Disk Orchestra Collection disks, Parts 1 and 2 cannot be copied. Also, "third generation" copies cannot be made; in other words, a copy can be made of the original disk, but a copy cannot be made of the copied disk.

■ Song Delete

This operation allows you to delete the recorded data of a selected song. (The selected song number must have recorded data in order for the operation to function.)

Operation

- 1. With an appropriate disk in the drive, select the song number you wish to delete, using the **SONG/VOICE** buttons.
- 2. Simultaneously hold down the SHIFT button and press the **SONG DELETE** button. (The "Delete Song?" message appears and the lamps of the STOP and REC buttons flash to indicate standby.)
- 3. Press the **REC** button to start deleting the song, or the **STOP** button to cancel. (A "Deleting..." message appears in the display during the operation. When the operation is completed, the display returns to the Song display.)

Song Delete does not function when the disk is write-protected. Set the write-protect tab on the disk to the "write-enabled" position, then try the operation again.

■ Quantize (Post-recording)

This operation lets you quantize recorded data for a selected Track. It differs from the Quantize operation (on page 12) in that it quantizes "after the fact," or after you've recorded the Track.

Quantize effectively "cleans up" a recorded Track, shifting all notes in time so that they align to a specified beat pattern. (Quantize only affects the note on data of a Track.)

Operation

- 1. Simultaneously hold down the SHIFT button and press the STOP button. (The "Quantizing" message appears and the lamps of the STOP and REC buttons flash to indicate standby.)
- 2. Select the Track in the song that you wish to quantize by using the PART/TRACK buttons.
- 3. Select the Quantize resolution by using the TEMPO/VOL-UME buttons.

Quantize Values:

1/4: Quarter-note

1/8: Eighth-note

1/12: Eighth-note triplets

1/16: Sixteenth-note

1/24: Sixteenth-note triplets

1/32: Thirty-second-note

4. Press the REC button again to start quantizing the Track, or the STOP button to cancel. (A "Quantizing..." message appears in the display during the operation. When the operation is completed, the display returns to the Song display.)



CAUTION!

The Quantize operation is permanent and irreversible! Make sure that you absolutely want to Quantize a Track before doing so.



To quantize after recording, there must be enough remaining space on the disk (equal to the amount of data of the Song itself). Check the remaining disk capacity (see below) before quantizing.

■ Checking Remaining Disk Capacity

This function lets you check how much free memory space is left on a floppy disk. A formatted, blank floppy disk has 713 kilobytes of memory space. When the remaining disk capacity reaches 0, no further recording can be done (unless some Song data is deleted).

Operation

While playback is stopped, hold down the STOP button.



Remaining disk capacity is not displayed when a disk is not inserted.

Bulk Data Operations

These convenient features allow you to record/store data from other MIDI devices to a floppy disk on the MDP2/DOU-10. For example, you could save the various settings on a MIDI synthesizer or effect device to disk for backup purposes and future recall.

■ Recording Bulk Data

Operation

- 1. Select the Song number for recording bulk data.
- 2. While playback is stopped, press the REC button. (The REC lamp lights and Part/Track lamps all flash.) Then, press the PLAY button to start recording. (The Measure/Time display advances as in normal recording.)

- 3. Start transmitting bulk data from the connected device. (Refer to the owner's manual of that device for instructions.) The disk drive lamp lights when data is being recorded. No buttons or controls (other than STOP) can be used during bulk data recording.
- 4. When all data has been transmitted (the display on the connected device should indicate this), press the STOP button to stop data recording.



NOTE

If you press the **STOP** button while the bulk dump operation is in progress (before an F7H message has been received), the **STOP** lamp flashes to indicate the operation is not completed. To stop the bulk dump in this case, press the STOP button again.

■ Sending Bulk Data

Once bulk data has been recorded to a disk on the MDP2/ DOU-10, you can transmit it back to the appropriate MIDI device.

Operation

- 1. Connect the MIDI OUT terminal of the MDP2/DOU-10 to the MIDI IN terminal on the MIDI device and set the MIDI device to receive bulk data. (Refer to the owner's manual of that device for instructions.)
- 2. Press the PLAY button. The recorded bulk data is output before Song playback starts.

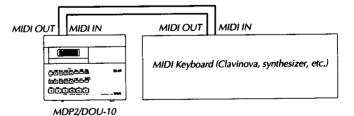
MIDI

This section provides a short introduction to MIDI and explains the various MIDI functions of the MDP2/DOU-10.

What is MIDI?

MIDI (Musical Instrument Digital Interface) is a worldwide standard that is built into most electronic musical instruments and other digital music related devices, allowing them to be connected to and "communicate" with each other.

For two MIDI instruments to communicate with each other, they must be connected by MIDI cables. In this basic example, the MIDI IN and MIDI OUT terminals of the MDP2/ DOU-10 are connected, respectively, to the MIDI OUT and MIDI IN terminals of another MIDI keyboard.



The instruments communicate with each other by sending "messages" or MIDI data. The sending instrument usually assigns the data to one of sixteen different MIDI channels, then transmits it over the MIDI cable. The cable itself, however, is not divided up into sixteen channels. Just as with a television set that receives programs on various different channels, it is up to the receiving instrument to "tune into" the proper MIDI channel. If the sending and receiving channels on the respective instruments do not match, the receiving instrument may not understand or respond to the one sending.

How Can MIDI Be Used?

One of the most important and common applications of MIDI "communication" is in using the keyboard of one instrument to play the sounds of another instrument. For example, a connected keyboard can be used to play Voices on the MDP2/DOU-10. Each time you play and release a key on the keyboard, various messages are sent via MIDI (including note number, note on, velocity and note off) which "tell" the instrument how to play your performance. You can even select different Voices on the instrument from the connected keyboard. Naturally, this performance data can also be recorded and edited, giving you powerful and convenient tools for creating your own music.

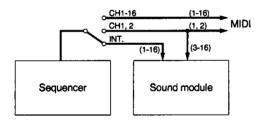
Setting the MIDI Transmit Channel

In order to properly playback Songs on a connected MIDI sound module, the MIDI Transmit channel must be properly set. This is done from the rear panel SEND CHANNEL switch. The settings are:

CH 1, 2 – This is the factory default setting, and is the recommended setting for use with the Clavinova. Song data is sent to the connected instrument over channels 1 and 2. Data on channels 3 - 16 is sent to the internal sound source of the MDP2/DOU-10.

CH 1 - 16 – Song data is sent only to the connected instrument over all channels 1 - 16. No data is sent to the internal sound source.

INT – Song data is sent only to the internal sound source. No data is sent to the connected instrument.



NOTE

The MIDI Transmit setting does not affect transmission of System Exclusive or System Realtime data. However, when this is set to INT, System Exclusive data is affected by this setting.

Other MIDI Functions

The MIDI functions give you extensive control over the MIDI transmission/reception status of the MDP2/DOU-10, for optimum integration into virtually any MIDI system.

Operation

- 1. Call up the MIDI function pages by simultaneously holding down the **SHIFT** button and pressing the **PAUSE** button. (The MIDI function pages can only be called up when playback is stopped.)
- Select the desired MIDI function (1 15) by using the SONG/VOICE buttons.

MIDI Functions

- 1: Sync Clock (internal/external)
- 2: Remote In (reception of start/continue/stop)
- 3: Remote Out (transmission of start/continue/stop)
- 4: MIDI Thru
- 5: Modulation Filter
- 6: Volume Filter
- 7: Expression Filter
- 8: Pedal Filter

- 9: Other Control Change Filter
- 10: Mode Message Filter
- 11: Program Change Filter
- 12: Pitch Bend Filter
- 13: After Touch Filter
- 14: Exclusive Filter
- 15: MIDI Transpose
- 16: Omni Mode
- 3. Make the desired setting (shown next to "DATA" in the display) for the selected function by using the **TEMPO/VOLUME** buttons.
- 4. To exit from the MIDI function pages, press either the **SHIFT** button or the **STOP** button.

■ 1 - Svnc Clock

Settings: INT (Internal), EXT (External)

Default: INT

This determines whether playback/recording will be synchronized to the instrument's internal clock or the clock of an external device (such as a rhythm machine or sequencer). The setting you should use for normal operation is "Internal." However, if you are synchronizing another device with the MDP2/DOU-10, and the MDP2/DOU-10 is the slave, set this to "External." (When set to External, "EXT" appears instead of the Tempo value in the Song display.)

■ 2 – Remote In / 3 – Remote Out

Settings: ON, OFF

Default: ON

Remote In should be set to ON when controlling playback of the MDP2/DOU-10 from an external device (such as a rhythm machine or sequencer). Remote Out should be set to ON when controlling playback of an external rhythm or sequencer from the MDP2/DOU-10.

These functions determine whether Start, Continue and Stop messages are received (Remote In) or transmitted (Remote Out). When Remote In is set to ON, the instrument responds to Start, Continue and Stop messages received via MIDI IN, and accordingly starts, pauses/resumes and stops playback. When Remote Out is set to ON, the instrument transmits Start, Continue and Stop messages via MIDI OUT upon pressing of the PLAY, PAUSE and STOP buttons.

■ 4 - MIDI Thru

Settings: ON, OFF

Default: OFF

This function determines whether the MIDI data received via MIDI IN is output through the MIDI OUT terminal. Since there is no dedicated MIDI THRU terminal on the rear panel, this function should be set to ON when connecting several MIDI devices to the instrument.

NOTE

Be careful when the MIDI IN and MIDI OUT terminals of the MDP2/DOU-10 are both connected to the same external MIDI instrument (such as a keyboard) and MIDI Thru is set to ON. When you play that instrument, will be playing its own voices twice – once from the keyboard, and after a very brief delay, again from the MIDI data routed through the MDP2/DOU-10. This not only cuts down on the available polyphony of the external instrument, but also creates an undesirable flanging sound. To remedy the problem, set the Local (or Local Switch) parameter on the external instrument to OFF. (Refer to the owner's manual of that device for details.)

NOTI

Data transfers (e.g., bulk dump) of larger than 32 bytes may not be transmitted correctly.

■ 5 - 14 - Filters

Settings: ON, OFF

Default: ON (except 13 - After Touch: OFF)

The various Filters determine whether the corresponding MIDI data is transmitted and received. When set to ON, the corresponding MIDI data can be transmitted and received. When OFF, both transmission and reception are disabled.

The most common use for these is to filter out data that is unnecessary or irrelevant to your recording. This may come in handy when you have limited disk space for a song, and want to make sure that only the data necessary for the song is recorded.

NOTE

These Filters have no effect when using song data on a disk to play the internal Voices.

■ 5 - Modulation

For filtering out modulation data. This corresponds to MIDI Control Change 1.

■ 6 – Volume

For filtering out MIDI volume data. This corresponds to MIDI Control Change 7.

■ 7 – Expression

For filtering out expression data. This corresponds to MIDI Control Change 11.

■ 8 - Pedal

For filtering out pedal-related data. This corresponds to three Control Change numbers: 64 – Damper or Sustain, 66 – Sostenuto, and 67 – Soft.

■ 9 - Other Control Change

For filtering out control change data other than those in Modulation, Volume, Expression and Pedal above.

■ 10 – Mode Message

For filtering out mode messages (e.g., mono, poly).

■ 11 - Program Change

For filtering out program change messages. Program change messages are used to change Voices (or programs) on the receiving device.

■ 12 - Pitch Bend

For filtering out pitch bend messages.

■ 13 – After Touch

For filtering out after touch messages.

■ 14 - Exclusive

For filtering out system exclusive data.

■ 15 – MIDI Transpose

Settings: +/- 6 semitones

Default: 0

This determines the amount by which it ming MIDI data is transposed. Unlike the Disk Transpose full ion (page 15), this transposes only the data coming via the MilliN terminal, and is used to transpose the Voices when using the instrument as a sound module or tone generator.

■ 16 – Omni Mode Settings: ON, OFF

Default: ON

This determines the omni receive mode for the instrument. When set to ON, all currently selected Parts respond to incoming MIDI data on all of the 16 MIDI channels. During recording, all incoming MIDI data is recorded to the currently selected Tracks. When set to OFF, each Part responds to incoming data only on the corresponding channel. For example, if Part 6 is selected, only MIDI data on channel 6 will affect that Part. During recording, the incoming data on the selected MIDI channel is recorded to the corresponding Track.

Initialization

This operation restores all default factory settings (listed below) for the instrument.

Operation

Turn the power off, then simultaneously hold down the **SHIFT** button and turn the power back on.

The list below shows the default factory settings. Changes made to these settings are retained for up to roughly one week, even with the power off.

Measure/Time display

Part assignments

MIDI settings:

Sync

Remote in/out

MIDI Thru

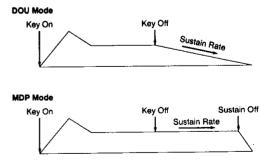
Filters (5 - 14)

Omni mode

Song Repeat mode DOU mode/MDP mode

Setting the DOU Mode / MDP Mode

The MDP2/DOU-10 has two basic operating modes: DOU and MDP. The modes determine how the instrument responds to sustain off messages. In the DOU mode, the sound naturally decays after the key or sustain pedal is released. In the MDP mode, for continuous non-decaying Voices, even after the key is released, the sound stays at the same level until the sustain pedal is released. For decaying Voices, the sound naturally decays after the key or sustain pedal is released. Also, when the Sound Module mode is set to doc (even with the MDP mode), the sound naturally decays after the key or sustain pedal is released.



To set the mode:

DOU mode (default) — Simultaneously hold down the **RIGHT** button and turn the power on.

MDP mode — Simultaneously hold down the **LEFT** button and turn the power on.

The mode setting is memorized (for up to roughly one week) even with the power off.

Troubleshooting

Even though the MDP2/DOU-10 is exceptionally easy to use, it may occasionally not function as you expect it to. If that happens, check the possible problems and solutions below before assuming that the instrument is faulty.

the Popen and the same	Possible Cause and Solution
No power.	Check that the AC adaptor is properly connected, both to the AC outlet and the MDP2/DOU-10.
No sound.	 Check that the VOLUME dial is set to appropriate level. If you are using an external sound system, check all audio connections and make sure that the cables are not at fault. Also make sure that all volume controls on the connected equipment are set to appropriate levels. (See pages 5 and 6.) Check that none of the Parts are muted. (See page 8.) Check that the volume settings of the Parts are set to appropriate levels. (See page 9.)
No sound (when playing the Voices with a MIDI keyboard).	 Check all MIDI connections, making sure that the MIDI OUT of the keyboard is connected to the MIDI IN of the MDP2/DOU-10. (See page 5.) Check that the volume setting of the Part played is set to an appropriate level. (See page 9.) Make sure that the SEND CHANNEL switch on the rear panel is set to INT. (This can be set to CH 1, 2 if the MIDI keyboard is transmitting on one of the channels 3 - 16.) (See page 21.)
Wrong pitch.	Check the Disk Transpose and Tuning settings. (See pages 15 and 16.)
Cannot record.	 Check that the write-protect tab of the disk is set to the "Write Enable" position. (See page 10.) Check that there is enough remaining space on the disk. (See page 20.)
Cannot select some Parts.	If the doc mode is selected, only Parts 1 - 10 and 15 are available (15 is reserved for the Drum Kit). In General MIDI mode, all Parts 1 - 16 can be selected. (See page 9.)
Cannot hear the click sound of the Metronome or Intro. Count.	 Make sure that the volume of the click is set to an appropriate level. If the Time display is selected, Intro. Count is not available. (See pages 12 and 16.)
After recording, playback of Tracks sounds different than originally played.	 • Make sure that the Quantize function is turned off. Quantizing a Track as you are recording may markedly alter the recorded performance. (See page 12.) • If you are using Punch-in recording, notes between the punch-in and punch-out points will be erased. (See page 17.) • If you are using Overdub recording, the original note durations may change. (See page 18.) • Check the MIDI Filter settings. You may be inadvertently filtering out certain types of MIDI data as you record. (See page 22.)
A previously recorded Track seems to have been erased.	You may have recorded over the previous Track. Unless you want to record over a Track, always make sure the Track is empty before recording. (See page 13.)
Not all simultaneously played notes sound.	You may be exceeding the maximum polyphony of the MDP2/DOU-10. The MDP2/DOU-10 can sound up 32 notes at the same time.

Error Messages

Clean Head!

When magnetic particle build-up on the disk drive head affects performance, this message appears to alert you to clean the drive. If this message continues to appear even after cleaning the drive, the disk itself may be defective. Use another floppy disk and try the operation again.

● NOTE

CopyProtect	This appears when the disk used is copy protected. For such disks, the data cannot be
COP SI 1 OCECC	copied.
BufferFull!!	This appears during recording, when too much data is handled at one time. Reduce the amount of data (e.g., by deleting data of unnecessary Tracks).
ReadWriteErr	This appears when the MDP2/DOU-10 has trouble reading from or writing to the disk. In most cases this can be remedied by cleaning the disk drive head.
DiskFull	This appears when there is no remaining space on the disk. Delete data from the disk or use a blank, formatted disk.
FDC Busy	This appears when too much data is handled at one time. Reduce the amount of data (e.g., by deleting data of unnecessary Parts).
SystemError	This appears when there is some problem or trouble in the system of the MDP2/DOU-10. Turning the power off and on again will usually remedy the problem.
MIDIInFull	This appears when too much MIDI data is handled at one time. Reduce the amount of data (e.g., by using the MIDI Filters; see page 22).
WriteProtect	This appears when trying to record or copy data to a disk or Song that is write protected. Set the write-protect tab of the disk to the "Write Enable" position and try the operation again. (Keep in mind that the current data on the disk will be erased by doing this.) Also, re-recording can only be done to Song data actually recorded on a MDP2/DOU-10 or data copied from a doc disk.
PlayProtect	This appears when the disk or Song used is play protected. In such cases, the data cannot be played back. This includes: • Play-protected Songs (e.g., doc Songs that can only be played back on a Clavinova). • Data other than Song data. • Incompatible file formats (e.g., Standard MIDI File format 1).
No Disk	This appears when the disk is ejected during playback. Do not eject the disk during playback.

Voice List Klangfarbenliste/Liste des sonorités/Lista de voces

DOC voice list

DOC void	e list
No. MIDI prog.No.	Voice Timb name #
1 12	Piano 1
2 48	Plano-Mild 1
3 51	Piano-Brite 1
4 13	E.Piano 1 1
5 50	E.Piano 2 1
6 14	Harpsichord 1
7 15	Celesta 1
8 16	Vibes 1
9 17	Marimba 1
10 11	Jazz Organ 1 1
11 82	Jazz Organ 2 1
12 10	Full Organ 1
13 76	Pipe Organ 1
14 7	Accordion 1
15 41	Harmonica 1
16 24	Gut Gultar 1
17 53	Folk Guitar 1
18 25	Jazz Gultar 1 1
19 72	Jazz Guitar 2 1
20 26	
21 69	Rock Guitar 2 1
22 70	Mute Gulter 1
23 88	Distortion Guitar 1
24 55 25 28	Banjo 1
25 28 26 71	Upright Bass 1
27 29	Upright Base-Mild 1 E.Bass 2
28 30	E.Bass 2 E.Bass with Slap 1
29 78	E.Bass-Heavy 1
30 31	Synth Bass 1
31 9	Violin 1
32 75	Violin-Hard 1
33 8	Strings 1
34 74	Strings-Mild 1
35 81	Chamber Strings 1
36 45	Synth Strings 1
37 56	Pizzicato 1
38 57	Harp 1
39 23	Timpani 1
40 42	Choir 1
41 46	Synth Choir 1
42 92	Orchestra Hit 1
43 1	Trumpet 1
44 40	Mute Trumpet 1
45 2	French Horn 1
46 0	Brass 1
47 73	Pop Brass 1
48 20	Synth Brass 1
49 3	Sax 1
50 77	
51 5	Oboe 1
52 80	Bassoon 1
53 4	Clarinet 1
54 6	Flute 1
55 79 56 44	Flute 2 1
	Synth Wood 2
57 22 58 89	Synth Crystal 1 Cosmic 1 2
59 90	Cosmic 2 1
60 91	Cosmic 3 2
61 68	Clavinova Tone 1
- 126	Drums'
120	C) (III)

GM voice list

Planc	GM	voice	list					
Piene	Na	MIDI	Voice	Timb	Mo	MIDI	Voice	Timb
D1	INU.	prog.No	, пате	#	ND.	prog.No.	name	#
1	Plenc	<u> </u>	The state of the s		Reed			
33 2 Electric Grand Plano 2 667 66 Tenor Sax 1	01	0	Acoustic Grand Piano	1	65	64	Soprano Sax	1
100 3	02	1	Bright Acoustic Piano	1	66	65	Alto Sax	1
DS 4 Electric Piano 1 2 69 68 Cboe	03	2	Electric Grand Piano	2	67	66	Tenor Sax	1
Description 1	04	3	Honky-tonk Piano	2	68	67	Baritone Sax	1
106 5 Electric Plano 2 2 70 69 English Hom 1 71 70 Bassoon 1 71 70 Passoon 1 70 70 Passoon	05	4	Electric Piano 1	2	69	68	Oboe	1
1	06	5	Electric Piano 2		70			
The comment			*******				• • • •	
Pipe								
OB 8 Celesta 1 73 72 Piccolo 1			Old 41				Ciarinet	
Percuestion 74 73 Flute 1 1 1 1 1 1 1 1 1			Colonto	4		70	Discola	
10			Celesia		-			
11 10 Music Box 2 76 75 Pan Flute 1 1 11 11 11 11 11 11			01-11-1	<u> </u>				
12			· · · · · · · · · · · · · · · · · · ·					
13 12 Marimba								
14 13			· · · · · · · · · · · · · · · · · · ·					
15								
15							Whistle	1
St St St St St St St St			Tubular Bells		80	79	Ocarina	11
17 16	16	15		2	Synth	Lead		1.5
18	Organ	1			81	80	Lead 1 (square)	2
19 18	17	16	Drawbar Organ	2	82	81	Lead 2 (sawtooth)	2
20	18	17	Percussive Organ	2	83	82	Lead 3 (calliope)	
21 20 Reed Organ 1 86 85 Lead 6 (volce) 2 22 21 Accordion 2 87 86 Lead 7 (fifths) 2 23 22 Harmonica 1 88 87 Lead 8 (bass+lead) 2 24 23 Tango Accordion 2 89 88 Pad 1 (new age) 2 25 24 Accoustic Guitar (nylon) 1 90 89 Pad 2 (warm) 2 27 26 Electric Guitar (clean) 1 91 90 Pad 3 (polysynth) 2 27 26 Electric Guitar (clean) 1 93 92 Pad 4 (choir) 2 28 27 Electric Guitar (muted) 1 94 93 Pad 6 (hetallic) 2 29 28 Electric Guitar (muted) 1 94 93 Pad 6 (hetallic) 2 23 23 31 Guitar Harmonics 1 95 94 Pad 7 (halo) 2 2 28 25 Accoustic Bass 1 96 95 Pad 8 (sweep) 2 2 28 Electric Bass (finger) 1 96 95 Pad 8 (sweep) 2 2 28 28 Electric Bass (finger) 1 99 98 FX 3 (crystal) 2 2 2 28 Electric Bass (finger) 1 99 98 FX 3 (crystal) 2 2 33 32 Accoustic Bass 1 98 97 FX 2 (soundbox) 2 36 35 Fretless Bass 1 100 100 FX 5 (brightness) 2 37 36 Siap Bass 1 102 101 FX 6 (goblins) 2 2 39 38 Synth Bass 1 102 101 FX 6 (goblins) 2 2 39 38 Synth Bass 1 104 103 FX 8 (sci-fi) 2 2 39 38 Synth Bass 1 104 103 FX 8 (sci-fi) 2 2 30 30 30 30 30 30	19	18	Rock Organ	2	84	83	Lead 4 (chiff)	2
21 20 Reed Organ 1 86 85 Lead 6 (volce) 2 22 21 Accordion 2 87 86 Lead 7 (fifths) 2 2 23 22 Harmonica 1 88 87 Lead 8 (bass+lead) 2 2 23 Tango Accordion 2 2 2 2 2 Tango Accordion 2 2 2 2 2 2 2 2 2	20	19	Church Organ	2	85	84	Lead 5 (charang)	2
22 21	21	20		1	86	85		
23 22 Harmonica 1 88 87 Lead 8 (bass-lead) 2								
Counter Synth Ped Synth Synth Synth Sas Synth San Synth								
Section Sect					777777777		LORG O (DAGGFIGAC)	1.
25	.2	1.1	Tango Accordion	-:			Red 1 (new egg)	
28 25 Acoustic Guitar (steel) 1 91 90 Pad 3 (polysynth) 2 27 26 Electric Guitar (lazz) 1 92 91 Pad 5 (bowed) 2 28 27 Electric Guitar (muted) 1 93 92 Pad 5 (bowed) 2 29 28 Electric Guitar (muted) 1 94 93 Pad 6 (metallic) 2 30 29 Overdriven Guitar 1 95 94 Pad 7 (halo) 2 31 30 Distortion Guitar 1 96 95 Pad 8 (sweep) 2 33 31 Guitar Harmonics 1 98 97 FX 2 (soundbox) 2 33 32 Acoustic Bass 1 98 97 FX 2 (soundbox) 2 34 33 Electric Bass (finger) 1 99 98 FX 3 (crystal) 2 35 34 Electric Bass (finger) 1 100 10 FX 5 (brightness)		*****	Accustic Cuitos (outer)					
27 26 Electric Guitar (jazz) 1 92 91 Pad 4 (choir) 2 28 27 Electric Guitar (muted) 1 93 92 Pad 5 (bowed) 2 29 28 Electric Guitar (muted) 1 94 93 Pad 6 (metallic) 2 30 29 Overdriven Guitar 1 95 94 Pad 7 (halo) 2 2 31 30 Distortion Guitar 1 96 95 Pad 8 (sweep) 2 2 31 30 Distortion Guitar 1 96 95 Pad 8 (sweep) 2 2 31 33 32 Acoustic Bass 1 98 97 FX 1 (rain) 2 33 33 32 Electric Bass (finger) 1 99 98 FX 3 (crystal) 2 2 35 34 Electric Bass (pick) 1 100 99 FX 4 (atmosphere) 2 36 35 Fretless Bass 1 101 100 FX 5 (goblins) 2 33 38 Sretless Bass 1 102 101 FX 6 (goblins) 2 39 38 Synth Bass 1 102 101 FX 6 (goblins) 2 39 38 Synth Bass 1 104 103 FX 8 (sci-fi) 2 2 39 38 Synth Bass 1 104 103 FX 8 (sci-fi) 2 2 39 38 Synth Bass 1 104 103 FX 8 (sci-fi) 2 2 34 40 Violin 1 106 105 Banjo 1 41 40 Violin 1 106 105 Banjo 1 44 43 Contrabass 1 107 106 Shamisen 1 43 42 Cello 1 108 107 Koto 1 44 43 Contrabass 1 109 108 Kalimba 1 45 44 Tremolo Strings 1 110 109 Bagpipe 1 48 47 Timpani 1 112 111 Shanai 1 1 112 111 Shanai 1 1 114 113 Agogo 1 114 113 Agogo 1 115 114 Steel Drums 1 115 115 114 Steel Drums 1 115 115 116 Talko Drum 1 115 117 Melodic Tom 1 117 118 Synth Drum 1 119 1								
28 27 Electric Guitar (clean) 1 93 92 Pad 5 (bowed) 2								
29 28 Electric Gultar (muted) 1 94 93 Pad 6 (metallic) 2							<u> </u>	
30 29 Overdriven Guitar 1 95 94 Pad 7 (halo) 2								
31 30		-	· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·	
Synth Effect 97 96 FX 1 (rain) 2							Pad 7 (halo)	
Sees	31	30	Distortion Guitar	1	96	95	Pad 8 (sweep)	2
33 32 Acoustic Bass 1 98 97 FX 2 (soundbox) 2	32	31	Guitar Harmonics	1	Synth	Effect		
34 33 Electric Bass (finger) 1 99 98 FX 3 (crystal) 2 35 34 Electric Bass (pick) 1 100 99 FX 4 (atmosphere) 2 36 35 Fretless Bass 1 101 100 FX 5 (brightness) 2 2 37 36 Siap Bass 2 1 102 101 FX 6 (goblins) 2 2 38 37 Siap Bass 2 1 103 102 FX 7 (echoes) 2 2 39 38 Synth Bass 2 1 104 103 FX 8 (sci-fi) 2 2 40 39 Synth Bass 2 1 105 104 Sitar 1 106 105 Banjo 1 107 106 Shamisen 1 107 106 Shamisen 1 107 106 Shamisen 1 107 106 Shamisen 1 108 107 Koto 1 109 Bagpipe 1 110 109 Bagpipe 1 111 110 Fiddle 1 112 111 Shanai 1 113 112 Tinkle Bell 2 115 114 Steel Drums 1 115 115 114 Steel Drums 1 115	Bass	111 - 11		Sil	97	96	FX 1 (rain)	2
35 34 Electric Bass (pick) 1 100 99 FX 4 (atmosphere) 2 36 35 Fretless Bass 1 101 100 FX 5 (brightness) 2 37 36 Slap Bass 1 1 102 101 FX 6 (goblins) 2 2 38 37 Slap Bass 2 1 103 102 FX 7 (echoes) 2 2 40 39 Synth Bass 2 1 Ethnic Strings	33	32	Acoustic Bass	1	98	97	FX 2 (soundbox)	2
36 35 Fretless Bass 1 101 100 FX 5 (brightness) 2 37 36 Slap Bass 1 1 102 101 FX 6 (goblins) 2 2 38 37 Slap Bass 2 1 103 102 FX 7 (echoes) 2 2 39 38 Synth Bass 1 1 104 103 FX 8 (scl-fi) 2 2 40 39 Synth Bass 2 1 Ethnic	34	33	Electric Bass (finger)	1	99	98	FX 3 (crystal)	2
37 36	35	34	Electric Bass (pick)	1	100	99	FX 4 (atmosphere)	2
37 36 Slap Bass 1 1 102 101 FX 6 (goblins) 2	36	35	Fretless Bass	1	101	100	FX 5 (brightness)	2
38 37 Slap Bass 2 1 103 102 FX 7 (echoes) 2	37	36	Siap Bass 1	1	102	101		2
39 38	38	37		1	103	102		
Strings	39	38	<u> </u>	1				
105 104 Sitar 1							17.0 (0011)	
41 40 Violin 1 106 105 Banjo 1 42 41 Viola 1 107 106 Shamisen 1 43 42 Cello 1 108 107 Koto 1 44 43 Contrabass 1 109 108 Kalimba 1 45 44 Tremolo Strings 1 110 109 Bagpipe 1 46 45 Pizzicato Strings 1 111 110 Fiddle 1 47 46 Orchestral Harp 1 112 111 Shanai 1 48 47 Timpani Ti			Committee Commit				Sitor	4
42 41 Viola 1 107 106 Sharnisen 1 43 42 Cello 1 108 107 Koto 1 44 43 Contrabass 1 109 108 Kalimba 1 45 44 Tremolo Strings 1 110 109 Bagpipe 1 46 45 Plzzicato Strings 1 111 110 Fiddle 1 47 46 Orchestral Harp 1 112 111 Shanai 1 48 47 Timpani 1 Perguseive 1 1 Ensemble 1 11 111 Shanai 1 1 48 47 Timpani 1 Perguseive 1			Violio	1				
43 42 Cello								
44 43 Contrabass 1 109 108 Kalimba 1 45 44 Tremolo Strings 1 110 109 Bagpipe 1 46 45 Pizzicato Strings 1 111 110 Fiddle 1 47 46 Orchestral Harp 1 112 111 Shanai 1 48 47 Timpani 1 Percuselve 1 48 47 Timpani 1 Percuselve 49 48 Strings Ensemble 1 1 113 112 Tinkle Bell 2 49 48 Strings Ensemble 2 1 115 114 Steel Drums 1 50 49 Strings Ensemble 2 1 115 114 Steel Drums 1 51 50 Synth Strings 1 2 116 115 Woodblock 1 52 51 Synth Strings 2 2 117 116 Taiko Drum <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
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46 45 Pizzicato Strings 1 111 110 Fiddle 1 47 46 Orchestral Harp 1 112 111 Shanai 1 48 47 Timpani 1 Percuseive 49 48 Strings Ensemble 1 1 113 112 Tinkle Bell 2 49 48 Strings Ensemble 2 1 115 114 Steel Drums 1 50 49 Strings Ensemble 2 1 115 114 Steel Drums 1 51 50 Synth Strings 1 2 116 115 Woodblock 1 52 51 Synth Strings 2 2 117 116 Taiko Drum 1 53 52 Choir Aahs 1 118 117 Melodic Torm 1 54 53 Voice Oohs 1 119 118 Synth Drum 1 55 54 Synth Voice 1 120 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
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### 47 Timpani 1 Perguseive								
113 112 Tinkle Bell 2							onanai	1
49 48 Strings Ensemble 1 1 114 113 Agogo 1 50 49 Strings Ensemble 2 1 115 114 Steel Drums 1 51 50 Synth Strings 1 2 116 115 Woodblock 1 52 51 Synth Strings 2 2 117 116 Taiko Drum 1 53 52 Choir Aahs 1 118 117 Melodic Tom 1 54 53 Voice Oohs 1 119 118 Synth Drum 1 55 54 Synth Voice 1 120 119 Reverse Cymbal 1 56 55 Orchestra Hit 1 Sound Effect 1 58ress 1 120 Guitar Fret Noise 1 57 56 Trumpet 1 122 121 Breath Noise 1 59 58 Tuba 1 123 122 Seashore			тяпрапі				Tields B. "	
50 49 Strings Ensemble 2 1 115 114 Steel Drums 1 51 50 Synth Strings 1 2 116 115 Woodblock 1 52 51 Synth Strings 2 2 117 116 Taiko Drum 1 53 52 Choir Aahs 1 118 117 Melodic Tom 1 54 53 Voice Oohs 1 119 118 Synth Drum 1 55 54 Synth Voice 1 120 119 Reverse Cymbal 1 56 55 Orchestra Hit 1 Sound Effect 1 Spress 121 120 Guitar Fret Noise 1 57 56 Trumpet 1 122 121 Breath Noise 1 58 57 Trombone 1 123 122 Seashore 2 59 58 Tuba 1 124 123 Bird Tweet </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
51 50 Synth Strings 1 2 116 115 Woodblock 1 52 51 Synth Strings 2 2 117 116 Taiko Drum 1 53 52 Choir Aahs 1 118 117 Melodic Torm 1 54 53 Voice Oohs 1 119 118 Synth Drum 1 55 54 Synth Voice 1 120 119 Reverse Cymbal 1 56 55 Orchestra Hit 1 Sound Effect 1 57 56 Trumpet 1 122 121 Breath Noise 1 57 56 Trumpet 1 122 121 Breath Noise 1 58 57 Trombone 1 123 122 Seashore 2 59 58 Tuba 1 124 123 Bird Tweet 2 60 59 Muted Trumpet 1 125								
52 51 Synth Strings 2 2 117 116 Taiko Drum 1 53 52 Choir Aahs 1 118 117 Melodic Torm 1 54 53 Voice Oohs 1 119 118 Synth Drum 1 55 54 Synth Voice 1 120 119 Reverse Cymbal 1 56 55 Orchestra Hit 1 Sound Effect Spress 121 120 Guitar Fret Noise 1 57 56 Trumpet 1 122 121 Breath Noise 1 58 57 Trombone 1 123 122 Seashore 2 59 58 Tuba 1 124 123 Bird Tweet 2 60 59 Muted Trumpet 1 125 124 Telephone Ring 1 61 60 French Horn 1 126 125 Helicopter								
53 52 Choir Aahs 1 118 117 Melodic Torm 1 54 53 Voice Oohs 1 119 118 Synth Drum 1 55 54 Synth Voice 1 120 119 Reverse Cymbal 1 56 55 Orchestra Hit 1 Sound Effect 1 Sress 121 120 Guitar Fret Noise 1 57 56 Trumpet 1 122 121 Breath Noise 1 58 57 Trombone 1 123 122 Seashore 2 59 58 Tuba 1 124 123 Bird Tweet 2 60 59 Muted Trumpet 1 125 124 Telephone Ring 1 61 60 French Hom 1 126 125 Helicopter 2 62 61 Brass Section 1 127 126 Applause								
54 53 Voice Oohs 1 119 118 Synth Drum 1 55 54 Synth Voice 1 120 119 Reverse Cymbal 1 56 55 Orchestra Hit 1 Sound Effect Special Synth Drum 1 120 119 Reverse Cymbal 1 1 121 120 Guitar Fret Noise 1 <t< td=""><td></td><td></td><td>Synth Strings 2</td><td></td><td>117</td><td>116</td><td>Taiko Drum</td><td>1</td></t<>			Synth Strings 2		117	116	Taiko Drum	1
55 54 Synth Voice 1 120 119 Reverse Cymbal 1 56 55 Orchestra Hit 1 Sound Effect 1 Sress 121 120 Guitar Fret Noise 1 57 56 Trumpet 1 122 121 Breath Noise 1 58 57 Trombone 1 123 122 Seashore 2 59 58 Tuba 1 124 123 Bird Tweet 2 60 59 Muted Trumpet 1 125 124 Telephone Ring 1 61 60 French Horn 1 126 125 Helicopter 2 62 61 Brass Section 1 127 126 Applause 2 63 62 Synth Brass 1 2 128 127 Gunshot 1	53	52	Choir Aahs	1	118	117	Melodic Tom	1
56 55 Orchestra Hit 1 Sound Effect 57 58 Trumpet 1 122 121 Breath Noise 1 58 57 Trombone 1 123 122 Seashore 2 59 58 Tuba 1 124 123 Bird Tweet 2 60 59 Muted Trumpet 1 125 124 Telephone Ring 1 61 60 French Horn 1 126 125 Helicopter 2 62 61 Brass Section 1 127 126 Applause 2 63 62 Synth Brass 1 2 128 127 Gunshot 1	54	53	Voice Oohs	1	119	118	Synth Drum	_1
56 55 Orchestra Hit 1 Sound Effect 57 58 Trumpet 1 122 121 Breath Noise 1 58 57 Trombone 1 123 122 Seashore 2 59 58 Tuba 1 124 123 Bird Tweet 2 60 59 Muted Trumpet 1 125 124 Telephone Ring 1 61 60 French Horn 1 126 125 Helicopter 2 62 61 Brass Section 1 127 126 Applause 2 63 62 Synth Brass 1 2 128 127 Gunshot 1	55	54	Synth Voice	1	120	119	Reverse Cymbal	1
Seress 121 120 Guitar Fret Noise 1 57 56 Trumpet 1 122 121 Breath Noise 1 58 57 Trombone 1 123 122 Seashore 2 59 58 Tuba 1 124 123 Bird Tweet 2 60 59 Muted Trumpet 1 125 124 Telephone Ring 1 61 60 French Hom 1 126 125 Helicopter 2 62 61 Brass Section 1 127 126 Applause 2 63 62 Synth Brass 1 2 128 127 Gunshot 1	56	55		1				
57 56 Trumpet 1 122 121 Breath Noise 1 58 57 Trombone 1 123 122 Seashore 2 59 58 Tuba 1 124 123 Bird Tweet 2 60 59 Muted Trumpet 1 125 124 Telephone Ring 1 61 60 French Hom 1 126 125 Hellicopter 2 62 61 Brass Section 1 127 126 Applause 2 63 62 Synth Brass 1 2 128 127 Gunshot 1							Guitar Fret Noise	1
58 57 Trombone 1 123 122 Seashore 2 59 58 Tuba 1 124 123 Bird Tweet 2 60 59 Muted Trumpet 1 125 124 Telephone Ring 1 61 60 French Hom 1 126 125 Hellcopter 2 62 61 Brass Section 1 127 126 Applause 2 63 62 Synth Brass 1 2 128 127 Gunshot 1		56	Trumpet	1				
59 58 Tuba 1 124 123 Bird Tweet 2 60 59 Muted Trumpet 1 125 124 Telephone Ring 1 61 60 French Hom 1 126 125 Hellcopter 2 62 61 Brass Section 1 127 126 Applause 2 63 62 Synth Brass 1 2 128 127 Gunshot 1			<u>-</u>				*************	
60 59 Muted Trumpet 1 125 124 Telephone Ring 1 61 60 French Horn 1 126 125 Hellcopter 2 62 61 Brass Section 1 127 126 Applause 2 63 62 Synth Brass 1 2 128 127 Gunshot 1								
61 60 French Horn 1 126 125 Helicopter 2 62 61 Brass Section 1 127 126 Applause 2 63 62 Synth Brass 1 2 128 127 Gunshot 1								
62 61 Brass Section 1 127 126 Applause 2 63 62 Synth Brass 1 2 128 127 Gunshot 1								
63 62 Synth Brass 1 2 128 127 Gunshot 1							•	
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04 03 Synth Brass 2 2					128	121	Gunsnot	
	04	00	Syriai Drass 2					

DOC/GM Drum Kit

DOC/GM Schlagzeugsätze, Percussions DOC/GM, Kits de batería y DOC/GM

	DOC					GM			
Note #	DOC KIT	Standard Kit	Room Kit	Rock Kit	Electronic Kit	Analog Kil	Jazz Kit	Brush Kil	Classic Kit
21 A -1	Cymbal Mute								
22 A#-1	e libro diffu		1 114.124111.44						
23 B -1									
24 C O		Square Click	<u></u>	-	n_n ← 1. ; i	←	(-	—	-
25 C# 0		Brush Tap	+	←	←	←	←	+	+
26 D 0		Brush Swirt	+	<u> </u>	· -	←	←	<u> </u>	+
27 D#0		Brush Slap	←	←	←	←	<u>←</u>	←	<u> </u>
28 E O		Brush Swirt w. Atk.	+	4-	Reverse Cymbal	Reverse Cymbal	←	· (-	<u> </u>
29 F 0		SD Roll	<u>←</u>	←	<u></u> ←	-	←	←	+
30 F# 0	Brush Roll	Castanets	←	←	Hi-Q	Hi-O	←	←	+
31 G 0		SD HI Soft	Room SD Lo	Rock SD Lo	Gated SD Lo	A. SD Lo	←	Brush Slap Lo	Marching SD Lo
32 6#0	HH Closed Heavy	Sticks	←	←	←	←	←	←	. ←
33 A O		BD Hi Soft	Room BD Lo	Rock BD Lo	Gated BD Lo	A. BD Lo	←	←	Gran Cassa Lo
34 A# 0	Crash Cym. Light	Open Rim Shot	←	+	←	←	← .	←	←
35 B 0	BD Light	BD Lo	Room BD Mid	Rock BD Mid	Gated BD Mid	A. BD Mid	←	←	Gran Cassa Mid
36 C 1	SD Rim Heavy	BD Hi Hard	Room BD Hi	Rock BD Hi	Gated BD Hi	A. BD HI	←	←	Gran Cassa HI
37 C#1	Ride Cym. Cup	Closed Rim Shot	←	←	←	A. Closed Rim	←-	↓	←
38 D 1	SD Rim Light	SD Lo	Room SD Mid	Rock SD Mid	Gated SD Mid	A. SD Mid	↓	Brush Slap Hi	Marching SD Mid
39 D#1		Hand Clap	←	←	←	←	←	←	←
40 E 1		SD HI Hard	Room SD HI	Rock SD Hi	Gated SD Hi	A. SD HI	←	Brush Tap	Marching SD HI
41 F 1	BD Normal	Floor Tom Lo	Room Tom 1 (Lo)	Rock Tom 1 (Lo)	E. Tom 1 (Lo)	A. Tom 1 (Lo)	Jazz Tom 1 (Lo)	Brush Tom 1 (Lo)	Jazz Tom 1 (Lo)
42 F# 1	Closed Rim Shot	Hi-hat Closed	-		←	A. Hi-hat Closed Hi	Dark Hi-hat Closed	Dark Hi-hat Closed	Dark Hi-hat Closed
43 G 1	SD Heavey	Floor Tom Hi	Room Tom 2	Rock Tom 2	E. Tom 2	A. Tom 2	Jazz Tom 2	Brush Tom 2	Jazz Tom 2
44 6#1	Brush Shot	HI-hat Pedal				A. Hi-hat Closed Lo	Dark HI-hat Pedal	Dark Hi-hat Pedal	Dark Hi-hat Pedal
45 A 1	SD Light	Tom Lo	Room Tom 3	Rock Tom 3	E. Tom 3	A. Tom 3	Jazz Tom 3	Brush Tom 3	Jazz Tom 3
46 A# 1	HH Pedal	Hi-hat Open	+		+ :	A. Hi-hat Open	Dark Hi-hat Open	Dark Hi-hat Open	Dark Hi-hat Open
47 B 1	SD Echo	Tom Lo Mid	Room Tom 4	Rock Tom 4	E. Tom 4	A. Tom 4	Jazz Tom 4	Brush Tom 4	Jazz Tom 4
48 C 2	Tom 4 (Lo)	Tom Hi Mid	Room Tom 5	Rock Tom 5	E. Tom 5	A. Tom 5	Jazz Tom 5	Brush Tom 5	Jazz Tom 5
						A. Cym.		€	Hand Cy. Long Lo
49 C# 2	HH Closed Normal	Crash Cym. 1	← CoT 0.480	← Paul 7 au 7 AB	5 T 0.410		← Tom Ø (ÜI)		
50 D 2	Tom 3	Tom HI	Room Torn 6 (HI)	Rock Tom 8 (HI)	E. Tom 6 (HI)	A. Tom 6 (HI)	Jazz Tom 6 (Hi)	Brush Tom 6 (HI)	Jazz Tom 6 (HI)
51 D#2	HH Open	Ride Cym. 1	+	←	<u> </u>	←	(- -	<u> </u>	Hand Cy. Short Lo
52 E 2	Tom 2	Chinese Cym.	[· · · · · · · · · · · · · · · · · · ·	•		-	e edi ← pipa		-
53 F 2	Tom 1 (HI)	Ride Cym. Cup	+	←-	←	← .	←	<u> </u>	←
54 F# 2	Ride Cym. Normal	Tambourine	1.1 ← 1 []	+	(-	← .	+	-	+
54 F# 2 55 G 2	E. Tom 3 (Lo)	Tambourine Splash Cym.	1.1° ← 1 ←	← _	←	←	<u>+</u>	<u>←</u>	←
55 G 2	E. Tom 3 (Lo)	Splash Cym.	←	<u> </u>	←	-	←	—	+
55 G 2 56 G#2	E. Tom 3 (Lo) Crash Cym. Normal	Splash Cym. Cowbell	←	←	←	← A. Cowbell	↓	—	←
55 G 2 56 G#2 57 A 2	E. Tom 3 (Lo) Crash Cym. Normal E. Tom 2	Splash Cym. Cowbell Crash Cym. 2	←	(←	← A. Cowbell ←	←	←	← ← Hand Cy. Long Hi
55 G 2 56 G#2 57 A 2 58 A#2	E. Tom 3 (Lo) Crash Cym. Normal E. Tom 2 (Crash Cym. Soft)	Splash Cym. Cowbell Crash Cym. 2 Vibraslap	-	+	←	A. Cowbell ←	←	↓	← ← Hand Cy. Long Hi ←
55 G 2 56 G#2 57 A 2 58 A#2 59 B 2	E. Tom 3 (Lo) Crash Cym. Normal E. Tom 2 (Crash Cym. Soft) E. Tom 1 (HI)	Splash Cym. Cowbell Crash Cym. 2 Vibraslap Ride Cym. 2	-	← 	← ← ←	A Cowbell ← ← ←		<u>+</u>	← Hand Cy. Long Hi ← Hand Cy. Short Hi
55 G 2 56 G#2 57 A 2 58 A#2 59 B 2 60 C 3	E. Tom 3 (Lo) Crash Cym. Normal E. Tom 2 (Crash Cym. Soft) E. Tom 1 (HI) Conga Lo	Splash Cym. Cowbell Crash Cym. 2 Vibraslap Ride Cym. 2 Bongo Hi	-	← ← ← ←	← ← ← ←	A. Cowbell		↓ ↓ ↓ ↓	← Hand Cy. Long Hi ← Hand Cy. Short Hi ←
55 G 2 56 G#2 57 A 2 58 A#2 59 B 2 60 C 3 61 C#3	E. Tom 3 (Lo) Crash Cym. Normal E. Tom 2 (Crash Cym. Soft) E. Tom 1 (HI) Conga Lo Cabasa	Splash Cym. Cowbell Crash Cym. 2 Vibraslap Ride Cym. 2 Bongo Hi Bongo Lo			← 	← A. Cowbell ←		<u>+</u> + + + + + + + + + + + + + + + + + +	← Hand Cy. Long Hi ← Hand Cy. Short Hi ← ←
55 G 2 56 G#2 57 A 2 58 A#2 59 B 2 60 C 3 61 C#3 62 D 3	E. Tom 3 (Lo) Crash Cym. Normal E. Tom 2 (Crash Cym. Soft) E. Tom 1 (HI) Conga Lo Cabasa Conga HI	Splash Cym. Cowbell Crash Cym. 2 Vibraslap Ride Cym. 2 Bongo Hi Bongo Lo Conga Hi Mute	E E		← ← ← ← ← ← ←	← A. Cowbell ← ← ← ← ← ← ← ← ← ← ← A. Conga Hi	+ + + + + + + + + + + + + + + + + + +	1 1 1	← Hand Cy. Long Hi ← Hand Cy. Short Hi ← ←
55 G 2 56 G#2 57 A 2 58 A#2 59 B 2 60 C 3 61 C#3 62 D 3 63 D#3	E. Tom 3 (Lo) Crash Cym. Normal E. Tom 2 (Crash Cym. Soft) E. Tom 1 (HI) Conga Lo Cabasa Conga HI Metronome	Splash Cym. Cowbell Crash Cym. 2 Vibrasiap Ride Cym. 2 Bongo Hi Bongo Lo Conga Hi Mute Conga Hi Open	E			← A. Cowbell ← ← ← ← A. Conga HI A. Conga Mid A. Conga Lo		1 1 1 1 1 1 1 1 1 1	← Hand Cy. Long Hi ← Hand Cy. Short Hi ← ← ← ← ←
55 G 2 56 G#2 57 A 2 58 A#2 59 B 2 60 C 3 61 C#3 62 D 3 63 D#3 64 E 3	E. Tom 3 (Lo) Crash Cym. Normal E. Tom 2 (Crash Cym. Soft) E. Tom 1 (HI) Conga Lo Cabasa Conga HI Metronome Bongo HI	Splash Cym. Cowbell Crash Cym. 2 Vibrasiap Ride Cym. 2 Bongo Hi Bongo Lo Conga Hi Mute Conga Hi Open Conga Lo	E E			← A. Cowbell ← ← ← ← ← ← A. Conga Hi A. Conga Mid	L L	1 1 1 1 1 1 1	← ← Hand Cy. Long Hi ← Hand Cy. Short Hi ← ← ← ← ←
55 G 2 56 G#2 57 A 2 58 A#2 59 B 2 60 C 3 61 C#3 62 D 3 63 D#3 64 E 3 65 F 3	E. Tom 3 (Lo) Crash Cym. Normal E. Tom 2 (Crash Cym. Soft) E. Tom 1 (HI) Conga Lo Cabasa Conga HI Metronome Bongo HI Timbale Lo	Splash Cym. Cowbell Crash Cym. 2 Vibrasiap Ride Cym. 2 Bongo Hi Bongo Lo Conga Hi Mute Conga Hi Open Conga Lo Timbale Hi	E E E	E E E E E E E E E E E E E E E E E E E	E E E E E E E E E E E E E E E E E E E	← A. Cowbell ← ← ← ← ← A. Conga HI A. Conga Mid A. Conga Lo ← ←	L L L	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	← ← Hand Cy. Long Hi ← Hand Cy. Short Hi ← ← ← ← ← ← ←
55 G 2 56 G#2 57 A 2 58 A#2 59 B 2 60 C 3 61 C#3 62 D 3 63 D#3 64 E 3 65 F 3 66 F# 3	E. Tom 3 (Lo) Crash Cym. Normal E. Tom 2 (Crash Cym. Soft) E. Tom 1 (HI) Conga Lo Cabasa Conga HI Metronome Bongo HI Timbale Lo Claves Timbale Hi	Splash Cym. Cowbell Crash Cym. 2 Vibrasiap Ride Cym. 2 Bongo Hi Bongo Lo Conga Hi Mute Conga Hi Open Conga Lo Timbale Hi Timbale Lo Agogo Hi	E E E E E E E E E E E E E E E E E E E		E E E E E E E E E E E E E E E E E E E	← A. Cowbell ← ← ← ← ← ← ← A. Conga Hi A. Conga Lo ← ← ←	← ← ← ← ←		← ← Hand Cy. Long Hi ← Hand Cy. Short Hi ← ← ← ← ← ← ← ← ← ←
55 G 2 56 G#2 57 A 2 58 A#2 59 B 2 60 C 3 61 C#3 62 D 3 63 D#3 64 E 3 66 F# 3 67 G 3 68 G#3	E. Tom 3 (Lo) Crash Cym. Normal E. Tom 2 (Crash Cym. Soft) E. Tom 1 (HI) Conga Lo Cabasa Conga HI Metronome Bongo HI Timbale Lo Claves Timbale Hi Castanets	Splash Cym. Cowbell Crash Cym. 2 Vibrasiap Ride Cym. 2 Bongo Hi Bongo Lo Conga Hi Mute Conga Hi Open Conga Lo Timbale Hi Timbale Lo Agogo Hi Agogo Lo	E E E E E E E E E E E E E E E E E E E		E E E E E E E E E E E E E E E E E E E	← A. Cowbell ← ← ← ← ← A. Conga HI A. Conga Lo ← ← ← ← ← ← ←	← ← ← ← ←		← ← ← Hand Cy. Long Hi ← Hand Cy. Short Hi ← ← ← ← ← ← ← ← ← ← ←
55 G 2 56 G#2 57 A 2 58 A#2 59 B 2 60 C 3 61 C#3 63 D#3 64 E 3 65 F 3 66 F#3 67 G 3 68 G#3	E. Tom 3 (Lo) Crash Cym. Normal E. Tom 2 (Crash Cym. Soft) E. Tom 1 (HI) Conga Lo Cabasa Conga HI Metronome Bongo HI Timbale Lo Claves Timbale HI Castanets Cuica Lo	Splash Cym. Cowbell Crash Cym. 2 Vibrasiap Ride Cym. 2 Bongo Hi Bongo Lo Conga Hi Mute Conga Hi Open Conga Lo Timbale Hi Timbale Lo Agogo Hi Agogo Lo Cabasa			E E E E E E E E E E E E E E E E E E E	← A. Cowbell ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←	← ← ← ← ← ←		← ← ← Hand Cy. Long Hi ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←
55 G 2 56 G#2 57 A 2 58 A#2 59 B 2 60 C 3 61 C#3 63 D#3 64 E 3 65 F 3 66 F#3 67 G 3 68 G#3 69 A 3 70 A#3	E. Tom 3 (Lo) Crash Cym. Normal E. Tom 2 (Crash Cym. Soft) E. Tom 1 (HI) Conga Lo Cabasa Conga HI Metronome Bongo HI Timbale Lo Claves Timbale Hi Castanets Cuica Lo Cowbell	Splash Cym. Cowbell Crash Cym. 2 Vibrasiap Ride Cym. 2 Bongo Hi Bongo Lo Conga Hi Mute Conga Hi Open Conga Lo Timbale Hi Timbale Lo Agogo Hi Agogo Lo Cabasa Marsoss			E E E E E E E E E E E E E E E E E E E	← A. Cowbell ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←			← ← ← Hand Cy. Long Hi ← Hand Cy. Short Hi ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←
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55 G 2 56 G#2 57 A 2 58 A#2 59 B 2 60 C 3 61 C#3 63 D#3 64 E 3 65 F 3 66 F#3 67 G 3 68 G#3 70 A#3 71 B 3 72 C 4	E. Tom 3 (Lo) Crash Cym. Normal E. Tom 2 (Crash Cym. Soft) E. Tom 1 (HI) Conga Lo Cabasa Conga HI Metronome Bongo HI Timbale Lo Claves Timbale Hi Castanets Cuica Lo Cowbell Cuica HI	Splash Cym. Cowbell Crash Cym. 2 Vibrasiap Ride Cym. 2 Bongo Hi Bongo Lo Conga Hi Mute Conga Hi Open Conga Lo Timbale Hi Timbale Lo Agogo Hi Agogo Lo Cabasa Maracas Samba Whistle Hi Samba Whistle Lo Guiro Short			E E E E E E E E E E E E E E E E E E E	← A. Conga Hi A. Conga Hi A. Conga Mid A. Conga Lo ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←			← ← ← Hand Cy. Long Hi ← Hand Cy. Short Hi ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←
55 G 2 56 G#2 57 A 2 58 A#2 59 B 2 60 C 3 61 C#3 63 D#3 64 E 3 65 F 3 66 F#3 67 G 3 68 G#3 70 A#3 71 B 3 72 C 4 73 C#4 74 D 4	E. Tom 3 (Lo) Crash Cym. Normal E. Tom 2 (Crash Cym. Soft) E. Tom 1 (HI) Conga Lo Cabasa Conga HI Metronome Bongo HI Timbale Lo Claves Timbale Hi Castanets Cuica Lo Cowbell Cuica HI Hand Clap Agogo Lo	Splash Cym. Cowbell Crash Cym. 2 Vibrasiap Ride Cym. 2 Bongo Hi Bongo Lo Conga Hi Mute Conga Hi Open Conga Lo Timbale Hi Timbale Lo Agogo Hi Agogo Lo Cabasa Maracas Samba Whistle Hi Samba Whistle Lo Guiro Short Guiro Long				← A. Cowbell ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	← ← ← Hand Cy. Long Hi ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←
55 G 2 56 G#2 57 A 2 58 A#2 59 B 2 60 C 3 61 C#3 63 D#3 64 E 3 65 F 3 66 F#3 67 G 3 68 G#3 70 A#3 71 B 3 72 C 4 73 C#4 75 D#4	E. Tom 3 (Lo) Crash Cym. Normal E. Tom 2 (Crash Cym. Soft) E. Tom 1 (HI) Conga Lo Cabasa Conga HI Metronome Bongo HI Timbale Lo Claves Timbale Hi Castanets Cuica Lo Cowbell Cuica HI Hand Clap Agogo Lo	Splash Cym. Cowbell Crash Cym. 2 Vibrasiap Ride Cym. 2 Bongo Hi Bongo Lo Conga Hi Mute Conga Hi Open Conga Lo Timbale Hi Timbale Lo Agogo Hi Agogo Lo Cabasa Maracas Samba Whistle Hi Samba Whistle Lo Guiro Short Guiro Long				← A. Cowbell ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← A. Claves			← ← ← Hand Cy. Long Hi ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←
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55 G 2 56 G#2 57 A 2 58 A#2 59 B 2 60 C 3 61 C#3 63 D#3 64 E 3 65 F 3 66 F#3 70 A#3 71 B 3 72 C 4 73 C#4 75 D#4 76 E 4 77 F 4 78 F#4	E. Tom 3 (Lo) Crash Cym. Normal E. Tom 2 (Crash Cym. Soft) E. Tom 1 (HI) Conga Lo Cabasa Conga HI Metronome Bongo HI Timbale Lo Claves Timbale Hi Castanets Cuica Lo Cowbell Cuica HI Hand Clap Agogo Lo Agogo HI Bongo Lo (Culca Lo) Tambourine	Splash Cym. Cowbell Crash Cym. 2 Vibrasiap Ride Cym. 2 Bongo Hi Bongo Lo Conga Hi Mute Conga Hi Open Conga Lo Timbale Hi Timbale Lo Agogo Hi Agogo Lo Cabasa Maracas Samba Whistle Hi Samba Whistle Lo Guiro Short Guiro Long Claves Wood Block Hi Wood Block Lo Cuica Hi (Mute)			← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←	← A. Cowbell ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←			← ← ← Hand Cy. Long Hi ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←
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55 G 2 56 G#2 57 A 2 58 A#2 59 B 2 60 C 3 61 C#3 63 D#3 64 E 3 65 F 3 66 F#3 77 A#3 78 F#4 78 F#4 79 G 4 80 G#4 81 A 4	E. Tom 3 (Lo) Crash Cym. Normal E. Tom 2 (Crash Cym. Soft) E. Tom 1 (HI) Conga Lo Cabasa Conga HI Metronome Bongo HI Timbale Lo Claves Timbale Hi Castanets Cuica Lo Cowbell Cuica HI Hand Clap Agogo Lo Agogo HI Bongo Lo (Culca Lo) Tambourine (Crash Cym. Soft) Triangle Close	Splash Cym. Cowbell Crash Cym. 2 Vibrasiap Ride Cym. 2 Bongo Hi Bongo Lo Conga Hi Mute Conga Hi Open Conga Lo Timbale Hi Timbale Lo Agogo Hi Agogo Lo Cabasa Maracas Samba Whistle Hi Samba Whistle Lo Guiro Short Guiro Long Claves Wood Block Hi Wood Block Lo Cuica Hi (Mute) Cuica Lo (Open) Triangle Mute Triangle Open Shaker			← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←	← A. Cowbell ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←			← ← ← Hand Cy. Long Hi ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←
55 G 2 56 G#2 57 A 2 58 A#2 59 B 2 60 C 3 61 C#3 63 D#3 64 E 3 65 F 3 66 F#3 77 A#3 77 A#3 77 A#3 77 A#3 77 A#3 77 A#3 77 B 74 76 E 4 77 F 4 78 F#4 79 G 4 80 G#4 81 A 4 82 A#4 83 B 4	E. Tom 3 (Lo) Crash Cym. Normal E. Tom 2 (Crash Cym. Soft) E. Tom 1 (Hi) Conga Lo Cabasa Conga Hi Metronome Bongo Hi Timbale Lo Claves Timbale Hi Castanets Cuica Lo Cowbell Cuica Hi Hend Clap Agogo Lo Agogo Hi Bongo Lo (Culca Lo) Tambourine (Crash Cym. Soft) Triangle Close (Brush Roll)	Splash Cym. Cowbell Crash Cym. 2 Vibrasiap Ride Cym. 2 Bongo Hi Bongo Lo Conga Hi Mute Conga Hi Open Conga Lo Timbale Hi Timbale Lo Agogo Hi Agogo Lo Cabasa Maracas Samba Whistle Hi Samba Whistle Lo Guiro Short Guiro Long Claves Wood Block Hi Wood Block Lo Cuica Hi (Mute) Cuica Lo (Open) Triangle Mute Triangle Open			← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←	← A. Cowbell ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←			← ← ← Hand Cy. Long Hi ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←
55 G 2 56 G#2 57 A 2 58 A#2 59 B 2 60 C 3 61 C#3 63 D#3 64 E 3 65 F 3 66 F#3 77 A#3 78 F#4 78 F#4 79 G 4 80 G#4 81 A 4	E. Tom 3 (Lo) Crash Cym. Normal E. Tom 2 (Crash Cym. Soft) E. Tom 1 (Hi) Conga Lo Cabasa Conga Hi Metronome Bongo Hi Timbale Lo Claves Timbale Hi Castanets Cuica Lo Cowbell Cuica Hi Hend Clap Agogo Lo Agogo Hi Bongo Lo (Culca Lo) Tambourine (Crash Cym. Soft) Triangle Close (Brush Roll)	Splash Cym. Cowbell Crash Cym. 2 Vibrasiap Ride Cym. 2 Bongo Hi Bongo Lo Conga Hi Mute Conga Hi Open Conga Lo Timbale Hi Timbale Lo Agogo Hi Agogo Lo Cabasa Maracas Samba Whistle Hi Samba Whistle Lo Guiro Short Guiro Long Claves Wood Block Hi Wood Block Lo Cuica Hi (Mute) Cuica Lo (Open) Triangle Mute Triangle Open Shaker			← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←	← A. Cowbell ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←			← ← ← Hand Cy. Long Hi ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←
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55 G 2 56 G#2 57 A 2 58 A#2 59 B 2 60 C 3 61 C#3 62 D 3 63 D#3 64 E 3 65 F 3 68 F#3 70 A#3 71 B 3 72 C 4 74 D 4 75 D#4 76 E 4 77 F 4 78 F#4 79 G 4 81 A 4 82 A#4 83 B 4 84 C 5	E. Tom 3 (Lo) Crash Cym. Normal E. Tom 2 (Crash Cym. Soft) E. Tom 1 (Hi) Conga Lo Cabasa Conga Hi Metronome Bongo Hi Timbale Lo Claves Timbale Hi Castanets Cuica Lo Cowbell Cuica Hi Hend Clap Agogo Lo Agogo Hi Bongo Lo (Culca Lo) Tambourine (Crash Cym. Soft) Triangle Close (Brush Roll)	Splash Cym. Cowbell Crash Cym. 2 Vibrasiap Ride Cym. 2 Bongo Hi Bongo Lo Conga Hi Mute Conga Hi Open Conga Lo Timbale Hi Timbale Lo Agogo Hi Agogo Lo Cabasa Maracas Samba Whistle Hi Samba Whistle Lo Guiro Short Guiro Long Claves Wood Block Hi Wood Block Lo Cuica Hi (Mute) Cuica Lo (Open) Triangle Mute Triangle Open Shaker Jingle Bell			← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←	← A. Cowbell ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←			← ← ← Hand Cy. Long Hi ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←
55 G 2 56 G#2 57 A 2 58 A#2 59 B 2 60 C 3 61 C#3 62 D 3 63 D#3 64 E 3 65 F 3 66 F#3 70 A#3 71 B 3 72 C 4 74 D 4 75 D#4 76 E 4 77 F 4 78 F#4 79 G 4 81 A 4 82 A#4 83 B 4 84 C 5 81 C#5	E. Tom 3 (Lo) Crash Cym. Normal E. Tom 2 (Crash Cym. Soft) E. Tom 1 (Hi) Conga Lo Cabasa Conga Hi Metronome Bongo Hi Timbale Lo Claves Timbale Hi Castanets Cuica Lo Cowbell Cuica Hi Hend Clap Agogo Lo Agogo Hi Bongo Lo (Culca Lo) Tambourine (Crash Cym. Soft) Triangle Close (Brush Roll)	Splash Cym. Cowbell Crash Cym. 2 Vibraslap Ride Cym. 2 Bongo Hi Bongo Lo Conga Hi Mute Conga Hi Open Conga Lo Timbale Hi Timbale Lo Agogo Hi Agogo Lo Cabasa Maracas Samba Whistle Hi Samba Whistle Lo Guiro Short Guiro Long Claves Wood Block Hi Wood Block Lo Culca Hi (Mute) Culca Lo (Open) Triangle Mute Triangle Open Shaker Jingle Bell Bell Tree			← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←	← A. Cowbell ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←			← ← ← Hand Cy. Long Hi ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←
55 G 2 56 G#2 57 A 2 58 A#2 59 B 2 60 C 3 61 C#3 62 D 3 63 D#3 64 E 3 65 F 3 66 F#3 67 G 3 68 G#3 70 A#3 71 B 3 72 C 4 74 D 4 75 D#4 76 E 4 77 F 4 78 F#4 79 G 4 80 G#4 81 A 4 82 A#4 83 B 4 84 C 5 81 C#5	E. Tom 3 (Lo) Crash Cym. Normal E. Tom 2 (Crash Cym. Soft) E. Tom 1 (Hi) Conga Lo Cabasa Conga Hi Metronome Bongo Hi Timbale Lo Claves Timbale Hi Castanets Cuica Lo Cowbell Cuica Hi Hend Clap Agogo Lo Agogo Hi Bongo Lo (Culca Lo) Tambourine (Crash Cym. Soft) Triangle Close (Brush Roll)	Splash Cym. Cowbell Crash Cym. 2 Vibraslap Ride Cym. 2 Bongo Hi Bongo Lo Conga Hi Mute Conga Hi Open Conga Lo Timbale Hi Timbale Lo Agogo Hi Agogo Lo Cabasa Maracas Samba Whistle Hi Samba Whistle Lo Guiro Short Guiro Long Claves Wood Block Hi Wood Block Lo Culca Hi (Mute) Culca Lo (Open) Triangle Mute Triangle Open Shaker Jingle Bell Bell Tree			← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←	← A. Cowbell ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←			← ← ← Hand Cy. Long Hi ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←

^{* &}quot;--" indicates the content is the same as that of Standard Kit.

* "--" bedeutet, daß der inhalt derselbe ist Wie der des Standard-Stazes.

* La flèche "--" indique que le contenu est le même que celui du Standard Kit.

* "--" indica que el contenido es igual al del Standard Kit (kit estándar).

MIDI Data Format MIDI-Datenformat/Format des données MIDI/ Formatos de los datos MIDI

1.Tone Generator—Data Reception

1.1 Channel Voice Messages

1) Note Off

Status byte 2nd byte 3rd byte 8nH kkH vvH 9nH kkH 00H

2) Note On

Status byte 2nd byte 3rd byte 9nH kkH vvH

n =MIDI channel kk=Note number vv=Velocity

:0H-FH (ch 1,-ch.16) :00H-7FH (0-127) :01H-7FH (1-127)

3) Control Change

(1)Bank Select MSB

Status byte 2nd byte 3rd byte BnH 00H mmH

n =MIDI channel :OH-FH (ch 1.-ch.16) mm=Bank number MSB :OOH-7FH (1-127)

Not received in the doc mode.

Data on channel 10 is not received in the GM mode.

Processing of bank select messages is paused until program change messages are received.

Channel 10 is initialized to 7FH and other channels are initialized to 00H when a "GM on" message is

Channel Tu ta ... received.

GM mode

00H :GM Melody Voice

01H-7EH :No sound

7FH :GM Rhythm Voice

(2) Modulation

Status byte 2nd byte 3rd byte BnH 01H vvH

n =MIDI channel vv=Modulation depth :00H-7FH (1-127)
Initial value [00H]

:0H-FH (ch 1,-ch.16)

Pitch modulation is used in the GM mode.

*Programs 6, 9, 61, 82 and 126 do not respond to modulation.
*Programs 16 and 19 use amplitude modulation, while all other programs use pitch modulation.

 Status byte
 2nd byte

 BnH
 06H

 BnH
 26H

 BnH
 60H

 BnH
 61H
 3rd byte mmH IIH xxH xxH MSB

n =MIDI channel : 0H-FH (ch 1.-ch.16) mm=Upper byte of NRPN/RPN parameter

=Lower byte of NRPN/RPN parameter

xx =Not recognized

(4) Volume

Status byte 2nd byte BnH 07H

3rd byte

n =MIDI channel vv=Volume GM Initial value DOC Initial value

:0H-FH (1ch.-16ch.) :F00H-7FH (0-127)

(5) Panpot

Status byte 2nd byte 8nH 0AH

n =MIDI channel vv=Panpot GM Initial value DOC Initial value

:0H-FH (ch 1,-ch.16) :00H-7FH (0-127)

[48H](15ch.only 40H)

(6) Expression

n =MIDI channel

Status byte 2nd byte BnH 0BH 3rd byte

:0H-FH (ch 1.-ch.16) :00H-7FH (0-127) [7FH]

vv=Expression Initial value (7) Sustain

Status byte 2nd byte BnH 40H

n =MIDI channel:

OH-FH (ch 1.-ch.16) 00H-7FH (0-127) Initial value [00H]

00H(SHORT)-7FH(Long): Continuous change However, in the MDP mode (for GM mode only): 00H-3FH: OFF 40H-7FH: ON

(8) Sostenuto

Status byte 2nd byte BnH 42H

3rd byte

n =MIDI channel vv=Control Value Initial value

:OH-FH (ch 1.-ch.16) :00H-7FH(0-127)

[00H]

3rd byte

00H-3FH :OFF 40H-7FH :ON

Status byte 2nd byte BnH 43H

n =MIDI channel vv=Control Value Initial value :0H-FH (ch 1.-ch.16) :00H-7FH(0-127) [00H]

00H-3FH :OFF 40H-7FH :ON

Not received in GM mode.

(10) Portament Control

Status byte 2nd byte BnH 54H

3rd byte kkH

n =MIDI channel kk=Source note number

:0H-FH (ch 1.-ch.16) :00H-7FH(0-127)

(11) Dry Send Level

Status byte 2nd byte BnH 5AH

n =MIDI channel vv =Control value Initial value :0H-FH (ch 1.-ch.16) :00H-7FH(0-127) [7FH]

Not received in doc mode.

Status byte 2nd byte BnH 5BH

n =MIDI channel

:0H-FH (ch 1,-ch.16) :00H-7FH(0-127) [40H]

3rd byte

Always effective in the CM mode.
The reverb send level of channel 16 affects all channels after a "doc on" message is received.
For all doc channels, after a "reverb depth on" message is received, reverb send level becomes effective for the channels.

Status byte 2nd byte 5DH

3rd byte

-MIDI channel: Initial value

0H-FH (ch 1.-ch. 00H-7FH(0-127) [00H]

For DOC mode 00H-3FH:OFF, 40H-7FH:ON

(14) NRPN MSB

Status byte 2nd byte BnH 63H

n =MIDI channel mm=Upper byte of NRPN parameter number.

: 0H-FH (1ch.-16ch.)

Status byte 2nd byte 3rd byte BnH 62H IIH

n=MIDI channel II=Lower byte of NRPN parameter number Initial value :0H-FH (ch 1.-ch.16) :00H-7FH(0-127) [7FH]

(16) RPN MSB

Status byte 2nd byte 3rd byte BnH 64H mmH

n =MIDI channel mm=Upper byte of RPN parameter number Initial value [7FH]

:0H-FH (ch 1.-ch.16) :00H-7FH(0-127)

(17) RPN LSB

Status byte 2nd byte 3rd byte BnH 65H IIH

n=MIDI channel II=Lower byte of RPN parameter number Initial value [7FH] :0H-FH (ch 1,-ch,16)

NRPN Data entry MSB LSB MSB LSB 18H rrH mmH xxH

xx =Not recognized.
Initial value[40H,00H]

Not received in doc mode

(19) Pitch Bend Sensitivity

RPN Data entry
MSB LSB MSB LSB
00H 00H mmH xxH: 00H, 00H-18H, 00H

mm=Control value xx =Not recognized Initial value(02H-00H)

(20) Fine Tuning

RPN Data entry
MSB LSB MSB LSB
00H 01H MMSB LSB
mmH IIH: 00H, 00H-7FH, 7FH

mm=Upper byte of control value II =Lower byte of control value initial value[40H,00H]

RPN Data entry
MSB LSB MSB LSB
00H 02H mmH xxH:28H, 00H-58H, 00H

mm=Control value xx =Not recognized Initial value[40H, 00H]

5) Program Change

Status byte 2nd byte CnH ppH

n =MIDI channel pp=Program number Initial value [00H]

:0H-FH (ch 1,-ch.16) :00H-7FH(0-127)

6) Channel Pressure

Status byte 2nd byte DnH vvH

:0H-FH (ch 1.-ch.16) :00H-7FH(0-127)

n =MIDI Channel :0H-FH (ch 1.-ch vv=Channel pressure initial value (IOOH) This controls modulation in the GM mode. Not received in the doc mode.

7) Pitch Rend

Status byte 2nd byte 3rd byte EnH IIH mmH

n =MIDI Channel

:0H-FH (ch 1.-ch.16) :00H-7FH (0-127) :00H-7FH (0-127) mm=Pitch bend MS8
II =Pitch bend LS8
Initial value (40H,00H)

(1) All Sound Off

Status byte 2nd byte 3rd byte BnH 78H xxH

n =MIDI Channel xx=Not recognized

:0H-FH (ch 1.-ch.16)

(2) Reset All Controllers

Status byte 2nd byte 3rd byte BnH 79H xxH

n =MIDI Channel:0H-FH (ch 1,-ch.16) xx=Not recognized

The settings of the controllers below change when this message is received.

Controller Value

Pitch bend [40H,00H]

Channel pressure (00H]

Modulation [00H]

Expression [7FH] Expression
Sustain
Sostenuto
Soft(In Doc mode)
NRPN

[7FH] [00H] [00H] [00H] [7FH,7FH] [7FH,7FH] RPN I/ Resets legato control setting.

(3) All Note Off

Status byte 2nd byte 3rd byte BnH 7BH xxH

n=MIDI Channel: 0H-FH (ch 1.-ch.16) xx=Not recognized

1) DOC on

F0H, 43H, 73H, 01H, 14H, F7H

2) Reverb Type

F0H, 43H, 73H, 01H, 11H, 0FH, 59H, nnH, F7H

00H=off nn=Reverb type:

3) Reverb Depth On (for each channel)

FOH, 43H, 73H, 01H, 18H, F7H

Not received in GM mode.

4) Master Tuning

F0H, 43H, 1xH, 27H, 30H, 00H, 00H, xmH, xlH, xxH, F7H

x, xx =Not recognized m =Tuning MSB
| =Tuning LSB

5) GM System On

FOH, 7EH, 7FH, 09H, 01H, F7H

6) Master Volume

F0H, 7FH, 7FH, 04H, 01H, II, xx, mm, F7H

mm=Master volume xx =Not recognized

Not received in doc mode.

2. Sequencer-Data Reception/Transmission

2.1 Channel Messages

All channel messages are recorded and played back.

8nH, kkH, vvH 9nH, kkH, vvH AnH, kkH, vvH Note off Note on Polyphonic key pressure Control change BnH, nnH, vvH CnH, ppH DnH, vvH Program change Channel pressure Pitch bend EnH, IIH, mmH Pitch be

2.2 System Exclusive Messages

All System Exclusive messages are recorded

F0H, F7H

2.3 System Common Messages

1) MIDI Time Code

F1H, ndH

2) Song Position Pointer

F2H, IIH, hhH Song Position Pointer

When Remote in Setting is on, under the condition of STOP or Play Pause, It will receive messages properly and become paused condition.

3) Song Select

F3H, ssH Song select

4) Tune Request

F6H Tune request

Not received

2.4 Real Time Messages

1) Timing Clock

Received when set to external synchronization.
While it playing back or recording, it will send messages

2) Start/Continue/Stop

FAH Start FBH Continue

When Remote Out Setting is on, it will send messages.

When FA, FB Remote In Setting is on while using STOP or Play Pause function it will receive messages.

When FC Remote In Setting is on while it playing back, it will receive messages.

3) Active Sensing

FEH

Received and transmitted.

This message is transmitted automatically every 250 ms.li not received for 500 ms (after receiving an FEH message), "All note off" and "Reset all controllers" messages are sent to the internal tone generator.

MIDI Implementation Chart

MIDI-Implementierungstabelle/ChartTableau de mise en oeuvre MIDI/Cuadro de implementación MIDI

YAMAHA [DISK ORCHESTRA UNIT/MIDI DISK PLAYER] Model DOU-10/MDP2 Date: 14-JUN-1994 [Sequencer] MIDI Implementation Chart Version: 1.0

Fun	ction	Transmitted	Recognized	Remarks
· · · · · · · · · · · · · · · · · · ·	- Howard Control			
Basic	Default	1-16	1-16	
Channel	Changed	X	x	
W-3-	Default	Mode 3	Mode 3	
Mode	Messages	x	x	
	Altered	*******	x	
Note	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	*1 0-127	0-127	
Number	:True voice	*****	0-127	
Velocity	Note ON	0	O 9nH, v=1-127	
	Note OFF	x	x 9nH, v=0 or 8nH	
After	Key's	*1 *2	*2	
Touch	Ch's	*1 *2	*2	
Pitch Bend	er	*1 *3	*3	
Control	1	*1 *4	*4	Modulation
Change	7	*1 *5	*5	Volume
-	11	*1 *6	* 6	Expression
	64	*1 *7	*7	Sustain
	66	*1 *7	*7	Sostenuto
	67	*1 *7	*7 .	Soft
	120-127	*1 *8	*8	
	Others	*1 *9	*9	
Prog Change	:True #	*1 *10 ******	*10	
System Exc	lucive	*1 *11	*11	
System	:Song Pos	*12	*12	
Common	:Song Sel	x	x	
	:Tune	x	x	
System	:Clock	0	*14	
Real Time	:Commands	*12	*13	
Aux	:Local ON/OFF	*1 *8	*8	
Messages	:All Notes OFF		*8	
	:Active Sense	0	0	
	:Reset	x	x	

Notes

- *1 According to Send Channel Setting: Available and Not available
 *2 When MIDI Function After Touch Filter is OFF: Not available
 *3 When MIDI Function Pitch Bend Filter is OFF: Not available
 *4 When MIDI Function ModeMessage Filter is OFF: Not available
 *9 When MIDI Function Other Control Change Filter is OFF: Not available
 *10 When MIDI Function Program Change Filter is OFF: Not available
 *11 When MIDI Function Exclusive Filter is OFF: Not available
 *12 When MIDI Function NodeMessage Filter is OFF: Not available
 *13 When MIDI Function Other Control Change Filter is OFF: Not available
 *14 When MIDI Function ModeMessage Filter is OFF: Not available
 *15 When MIDI Function Other Control Change Filter is OFF: Not available
 *10 When MIDI Function Exclusive Filter is OFF: Not available
 *11 When MIDI Function Other Control Change Filter is OFF: Not available
 *12 When MIDI Function Other Control Change Filter is OFF: Not available
 *13 When MIDI Function Other Control Change Filter is OFF: Not available
 *14 When MIDI Function Other Control Change Filter is OFF: Not available
 *15 When MIDI Function Other Control Change Filter is OFF: Not available
 *16 When MIDI Function Other Control Change Filter is OFF: Not available
 *18 When MIDI Function Other Control Change Filter is OFF: Not available
 *19 When MIDI Function Other Control Change Filter is OFF: Not available
 *10 When MIDI Function Exclusive Filter is OFF: Not available
 *10 When MIDI Function Exclusive Filter is OFF: Not available
 *11 When MIDI Function ModeMessage Filter is OFF: Not available

- *12 When Remote Out is ON: Available *13 When Remote In is OFF: Not available
- *6 When MIDI Function Expression Filter is OFF: Not available *7 When MIDI Function Pedals Filter is OFF: Not available *14 When Sync is External: Not available

Mode 1: OMNI ON, POLY Mode 2: OMNI ON, Mode 3: OMNI OFF, POLY Mode 4: OMNI OFF, MONO

O: Yes

x: No

YAMAHA [DISK ORCHESTRA UNIT/MIDI DISK PLAYER] Model DOU-10/MDP2

[Tone Generator] MIDI Implementation Chart

Remarks Transmitted Recognized Function ... х 1-16 Default Basic х 1-16 Channel Changed Mode 3 Default х Mode х x Messages x Altered 0-127 Note х Number :True voice ****** 0-127 Velocity 0.9nH, v=1-127Note ON х x 9nH, v=0 or 8nH Note OFF х After Key's х х 0 Touch Ch's х Pitch Bender х 0 0 BankSelect MSB x Control 0 Modulation 1 х Change Data Entry 0 6, 38 X Ó Volume X 10 0 Pan X 0 Expression 11 х Sustain 0 64 х Sostenuto 66 x Soft 67 x 000 Portament Control 84 Dry send level 90 X 91 0 Reverb х 0 Chorus 93 x RPN data inc. RPN data dec. 0 96 х 0 97 х NRPN MSB LSB 98, 99 0 х RPN MSB LSB 100, 101 0 х All Sound Off Reset All Cntrls 120 0 х 0 121 х 0 0-127 Prog х ****** 0-127 Change :True # 0 System Exclucive х System :Song Pos х х Common :Song Sel х х х :Tune х System :Clock x x Real Time :Commands х х :Local ON/OFF х Aux х 0 (123-125) х Messages :All Notes OFF 0 х :Active Sense х х :Reset

Notes

Mode 1: OMNI ON, POLY Mode 2: OMNI ON, MONO Mode 3: OMNI OFF, POLY Mode 4: OMNI OFF, MONO

O: Yes

x: No

Date: 14-JUN-1994

Version: 1.0

Demo Song List

Liste der Demo-Songs/Liste des œuvres de démonstration / Lista de canciones de demostración

Song No.	Song Title	Original	Source	Type
1	Little Overture (Tchaikovsky)	DOC DO-114		DOC
2	Symponie No. 40 1st mov. (Mozart)	DOC DO-109	Classic Themes 7	DOC
3	Golliwog's Cakewalk (Debussy)	DOCDO-113	Classic Themes 9	DOC
4	Piano Concerto No.1 3rd mov. (Chopin)	DOC DO-1060	Piano Concertos	DOC:
5	My Funny Valentine	DOC DO-225	Jazz Piano 2	DOC
6	The Days Of Wine And Roses	DOC DO-210	Jazz Pino Trio 1	DOC
7	Alone Together	DOC DO-226	Jazz Piano Trio 2	DOC
8	Moonlight Serenade	DOC DO-221	Swing Jazz Favorites	DOC
9	Autumn Leaves (advanced level)	DOC DO-211	Clavinova Jazz Lesson	DOC
10	A Hard Day's Night	DOC DO-203	Beatles Best 2	DOC
11	Penny Lane	DOC DO-231	Beatles Best 3	DOC
12	Love Letters	DOC DO-204	Screen Themes 1	DOC
13	Chariots Of Fire	DOC DO-205	Screen Themes 2	DOC
14	Far From Over	DOC DO-217	Screen Themes 3	DOC
15	Do-Re-Mi from (The Sound Of Music)	DOC DO-207	Broadway Musical 1	DOC
16	Mas Que Nada	DOC DO-206	Latin Favorites 1	DOC
17	Jambalaya	DOC DO-208	Country Hits	DOC
18	Mickey Mouse March	DOC DO-201	Disney Favorites	DOC
19	Deck The Halls	DOC DO-215	Christmas Melodies	DOC
20	Michael, Row The Boat Ashore	DOC DO-213	Singalong Favorites	DOC
21	Ballade Pour Adeline	DOC DO-245D	Ballade Pour Adeline	DOC
22	Lake Louise	DOC DO-250	Lake Louise	DOC
23	Czerny No.73	DOC DO-307	Czerny 100 For Clavinova	DOC
24	Minuet from L'Arlesienne (Bizet)	Not available		DOC
25	Happy Xmas (War Is Over)	Not available	***	DOC
26	Purple Haze	Not available		GM
27	When A Man Loves A Woman	Not available	· · · · · · · · · · · · · · · · · · ·	GM
28	Birdland	Not available		GM
29	Back To The Future	Not available		GM
30	Yellow Submarine	Not available		GM

● Please consult your Yamaha Clavinova dealer for the DOC software. All the songs are short excerpts. ● Bitte Setzen Sie sich mit Ihrem Yamaha Clavinova-Händler in Verbindung, der Sie über die DOC-Boftware berät. Alle Songs sind kurze Ausschnitte. ● Le distributeur de Clavinova Yamaha vous renseignera utliement sur les enregistrements Disk Orchestra Collection. Les oeuvres enregistrées sont des extraits. ● Para más información sobre software DOC, consulte a su concesionario Yamaha Clavinova. Todas las canciones son extractos de corta duración.

Tone Generator	AWM (Advanced Wave Memory) GM / DOC
	16 Parts Voices
	Disk Orchestra Collection mode: 61 Voices & 1 drum kit set
	General MIDI mode: 128 Voices & 8 drum kit sets
	Polyphony
	32 notes
Sequencer	Recording Media
	3.5" microfloppy disks (2DD)
	Memory Capacity
	1 disk (713 Kb) / 16 Tracks / 60 Songs / approx. 50,000 notes
Panel Controls/Terminals	Display (73 × 23mm)
	Top panel buttons:
	DISPLAY/SHIFT, SONG/VOICE ▼/▲, TEMPO/VOLUME ▼/▲, A-B REPEAT, PHRASE REPEAT, SONG REPEAT,
	RIGHT/A:T, LEFT/B:2, OTHERS/C:3-16,PART/TRACK ◀/▶, MINUS ONE, SOLO, METRONOME/INTRO, COUNT.
	PAUSE, STOP, PLAY/DISK COPY, REW/SONG DELETE, FWD/SONG COPY TO, REC/DISK FORMAT
	Front panel controls/terminals:
	POWER switch, VOLUME dial, PHONES jack, CONTRAST dial, disk drive, eject button
	Rear panel controls/terminals:
	DC IN, INPUT SELECT switch, INPUT VOL dial, INPUT jacks (L/MONO, R), OUTPUT jacks (L/MONO, R), MIDI IN, MIDI OUT, SEND CHANNEL switch
Power Supply	DC 12 V, 1.5 A (with PA-5B Power Adaptor)
Power Consumption	15 W
mpedance	Output: 500 Ω
	Input: 500 KΩ (L, R)
	250 KΩ (mono)
Dimensions (W \times D \times H)	310 × 245 × 87 mm (12-1/4" × 9-5/8" × 3-3/8")
Weight	2.1 kg (4 lbs., 10 oz.)
Supplied Accessories	Demo Disk, Owner's Manual, 2 MIDI cables, 2 audio cables w/RCA-phone adaptors
Optional Accessories	PA-5B Power Adaptor (The PA-5B is an included accessory for the U.S. and Canadian markets; for all other

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