

HCARD-101

USER MANUAL



HYPERSYNTH

MEMORY CARD FOR KORG SYNTHESIZERS

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Product Overview

Hcard-101 is an intelligent memory card with multi-bank and multi-device capabilities, purposefully tailored for use with Korg M1, WaveStation, DS8, and A1 models. The Korg M1 synthesizer's voice memory is initially limited to 100 presets, which can be upgraded to 200 presets (1 extra bank) by utilizing a Korg "MCR-03" RAM card. However, the availability of the Korg RAM card is limited due to its discontinuation, rarity, and high cost. These factors collectively render it a less favorable choice for enthusiasts in the modern era. The "Hcard-101" serves as a seamless replacement for the Korg "MCR-03". It boasts the capacity to store up to 127 banks of data, all without concerns about battery lifespan and potential data loss.

Features:

- **Memory Capacity:** Supports up to 126 banks, segmented as follows: (M1:64 banks, WS: 40 banks, DS8:24 banks, A1:16 banks)
- **Pre-Loaded Soundbanks:** Comes with 73 pre-loaded soundbanks, including 57 from Korg ROM cards. Additionally, it contains 11 Hypersynth categorized banks specifically for M1 and more.
- **Touch Pad Accessibility:** Instantly switch between different banks using 4 touch pads.
- **Display:** Features a 128x128 pixel OLED display (free angle).
- **Adaptive Display:** Automatic rotation feature corrects display orientation if the card is inserted in reverse, especially useful for rack-mount devices.
- **Enhanced Memory Protection:** An independent "Memory Protect" option for each bank, offering protection without locking the entire card.
- **Customization:** Allows user-defined names for banks.
- **Quick Bank Navigation:** Easily navigate between banks via the bank list menu.
- **Efficient Management:** Use the "Bank Copy" function to duplicate banks without overwriting the internal memory of the synth.
- **Battery-Free:** Operates without the need for a battery.
- **Robust Build:** CNC metal case sporting a scratch-resistant grey anodized finish.
- **Compatibility:** Drop-in replacement for the Korg "MCR-03" RAM card.
- **Extensive Device Compatibility:** Works seamlessly with Korg M1, M1-EX, M1R, M1R-EX, T1, T2, T3, WS, WS-EX, WS-A/D, DS8, and A1.

M1 Dedicated Features:

- **Format Decoding:** Displays the format of the selected bank on the main screen.(100prg/100cmb, 50prg/50cmb/4200seq, 7700seq)
- **Program Capturing:** Presents valuable details about the chosen program, including its compatibility with M1/M1EX, or any requirements for an external PCM card.
- **Program Listing:** Showcases 8 program names simultaneously, allowing for quick access and browsing of desired sounds.
- **Bank Info:** Provides a comprehensive report highlighting the number of programs in the chosen bank that utilize M1 waveforms, M1EX waveforms, or External PCM card waveforms.

WS Dedicated Feature:

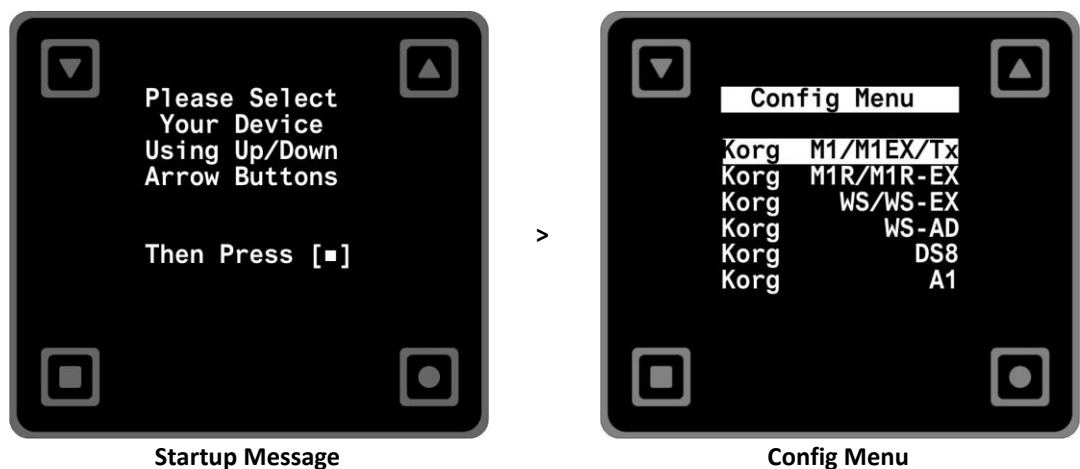
- **Dynamic Update:** Automatically updates the card name on the Wavestation display upon selecting a new bank on the Hcard.

Installation Instructions

1. **Power Off:** Ensure that your synthesizer is powered off before inserting the memory card.
2. **Insert the Card:** Locate the memory card slot on your synthesizer and gently insert the Hcard-101, making sure it is securely in place.
3. **Power On:** Turn on your synthesizer. The device should automatically recognize the Hcard-101.

Initial Configuration for Multi-Device Compatibility

When you initially power up your device with the Hcard-101 inserted, it will automatically display a startup message for 4 seconds before transitioning to the configuration menu. This step allows you to customize the Hcard-101 to your specific device, ensuring compatibility.



Within the configuration menu, start by using the [▼] and [▲] buttons to select your device. Once you've made your selection, press the [■] button. At this stage, the Hcard will automatically restart and display a splash screen:

Selecting the Appropriate Manual Section

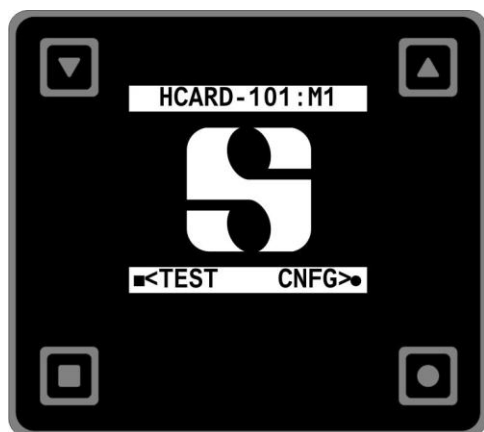
This manual is organized into four distinct sections, each dedicated to a specific Korg synthesizer or effect processor. For those using the digital PDF version, simply click on the hyperlinks provided below to navigate to the relevant section. If you're referencing a printed copy, please note the page numbers associated with your specific device model to find the information you need.

- [Korg M1/M1R/Tx](#).....Page 03-10
- [Korg WS/WS-A/D](#)Page 11-16
- [Korg DS-8](#)Page 17-20
- [Korg A1](#)Page 21-26

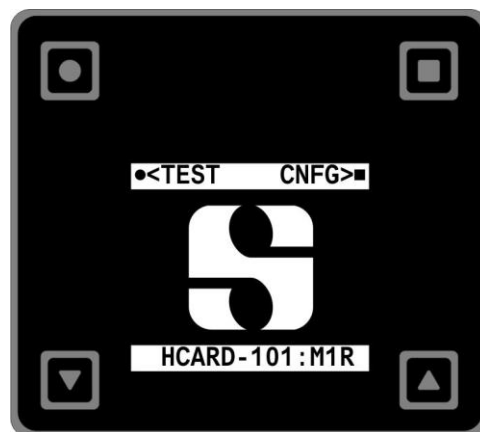
Note on Adaptive Display Feature:

For users of the **Korg M1R** or **WS-A/D** (Rack Mounted Unit), please be aware of the **adaptive display** feature which rotates the screen. When this feature is active, the functions of the square [■] and circle [●] buttons will be reversed. Apart from the point mentioned above, all the content and details within this manual remain consistent and identical for both the M1 and M1R, as well as the WS and WS-A/D models.

Splash Screen Overview



Splash Screen (M1 Mode)



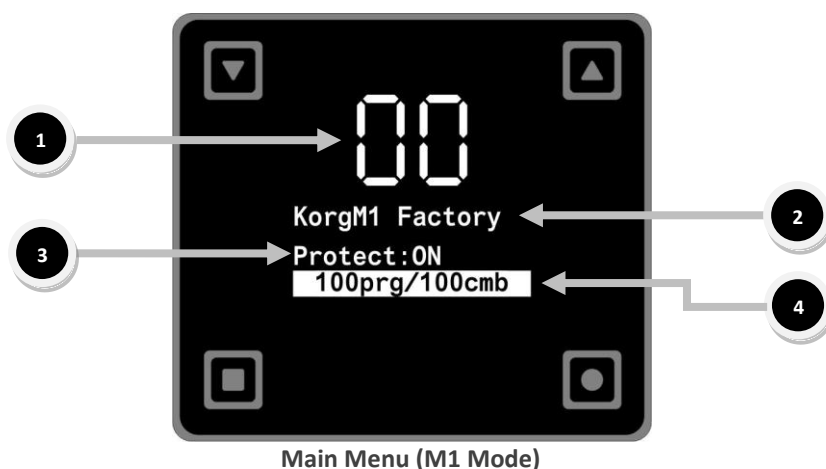
Splash Screen (M1R Mode)

[▼] & [▲]: Maintain the Hcard in the splash screen while displaying a logo animation.

[■] M1 or [●] M1R: Enter the **Test Menu** to perform diagnostic checks and ensure optimal functionality.

[●] M1 or [■] M1R: Navigate to the **Config Menu**.

Main Menu Functions



Main Menu (M1 Mode)

[1]: This field shows the active bank **number**. For the M1, the range is from 00 to 63.

[2]: This field shows the active bank **name**.

[3]: This field indicates the **protection** status of the active bank.

[4]: This field indicates the active **bank format**, Possible formats include: "100prg/100cmb", " 50p/50c/4200sq", and "7700-SEQ".

[▲]: Press to increase the active bank number by +1. Hold for 1 second to increase the bank number more rapidly by +10.

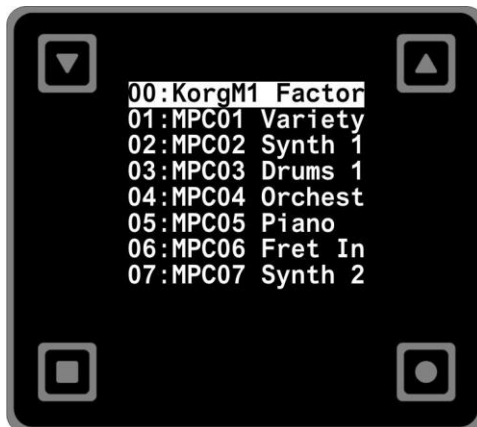
[▼]: Press to decrease the active bank number by -1. Hold for 1 second to decrease the bank number more rapidly by -10.

[■] M1 or [●] M1R: Access the **tools menu**.

[●] M1 or [■] M1R: Access the **bank selection menu**.

Bank Selection Menu

Bank selection menu, enabling you to navigate through and select from a list of sound banks, organized by their names.



Bank Selection Menu (M1 Mode)

[▼]: Navigate to the next item in the list. If held down for 1 second, the display will advance to the subsequent page.

[▲]: Navigate to the previous item in the list. If held down for 1 second, the display will return to the preceding page.

[■] M1 or [●] M1R: Exit to main menu.

[●] M1 or [■] M1R: Use this button to confirm your selection and load the highlighted bank.

Tools Menu

In the Tools Menu, you have the capability to explore and adjust various features and settings associated with the banks saved on your Hcard. The navigation buttons on the left and right (▼ and ▲) help you scroll through the menu options. The square button [■] serves exit to the main menu, and circle button [●] opens the highlighted item (for M1R the function of these buttons are reversed).

1. **Write Protect:** This function allows you to secure a particular bank, preventing any accidental changes or overwrites.
2. **Rename Bank:** Utilize this feature to give a custom name to a bank for easy identification and retrieval. (Not functional for Korg Tx Series)
3. **Copy Bank:** This allows you to make a duplicate of a specific bank, which can be useful when creating variations or backups.
4. **Help[QR CODE]:** It displays a QR code. By scanning this QR code with a compatible device, such as a smartphone, you'll be directed to the PDF version of this manual.
5. **Capture PRG:** Use this "capture" the current program settings and name. (Not functional for Korg Tx Series)
6. **List PRG:** This option displays a list of all the programs stored in selected the bank. (Not functional for Korg Series)



Tools Menu (M1 Mode)

Each entry in the tools menu is detailed on the following page of this manual.

Write Protect Menu

Unlike vintage memory cards, the Hcard offers protection on a per-bank basis, rather than for the entire memory card. This flexibility allows users to secure specific banks while leaving others available for modifications:



Write Protect Menu (M1 Mode)

- **Title Bar:** The topmost bar displays the menu name, "Protect Menu", indicating that you are in the protection settings area.
- **Bank XX:** This shows the active bank number you are viewing or editing.
- **Protect:** This displays the protection status of the selected bank. In the image, the protection is turned "ON", meaning changes can't be made to the bank without disabling the protection first.
- **Bank Name:** Below the protection status, the name of the bank is displayed. In the image, it's named "KorgM1 Factory".
- **[■] M1 or [●] M1R:** This button allows you to exit the Protect Menu and return to the main screen.
- **[●] M1 or [■] M1R:** This button lets you toggle the protection status of the bank. When "ON", the bank is protected from any alterations. Switching it to "OFF" will allow modifications to the bank.
- **[▼] & [▲]:** These triangle buttons allow you to scroll through different banks.

Rename Bank Menu

The "Rename Menu" facilitates the renaming of specific banks in your Hcard, offering a clear step-by-step process to ensure efficient and mistake-free renaming. Given that the Hcard has a limited number of buttons, which are already allocated to other functions, renaming must be carried out with the assistance of the **Korg M1 UI**. When you access the Rename Menu of Hcard and modify the name of **program:00** through the M1, the Hcard captures this name and assigns it to the **active bank**. Following this action, the contents of the active bank are automatically reloaded to address any overwriting of **program:00**.



Rename Bank Menu (M1 Mode)

Step-by-Step Renaming Instructions:

1. Ensure program:00 of the card is active on the M1.
2. On the M1, press the **[Edit Prog]** button, followed by the **[9]** button to access the Rename page.
3. Enter your new name then press **[Write]** button, followed by the **[YES]** button.
4. The bank name will be updated, and the Hcard will transition from the rename menu back to the main menu.



Korg M1/M1R Write/Rename Page

Copy Bank Menu

Copy bank function allows you to make a duplicate of a specific bank, which can be useful when creating variations or backups. This function operates independently of the M1, ensuring there's no risk to the internal memory of your synthesizer.

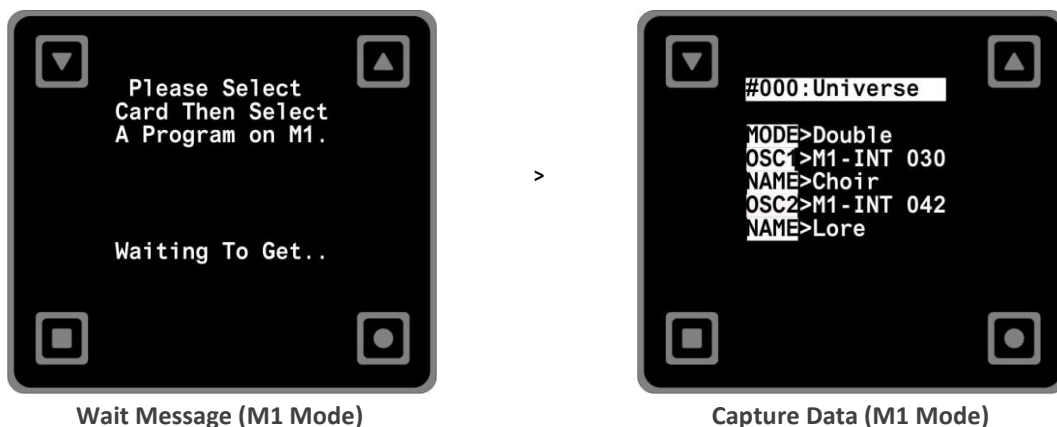


Copy Bank Menu (M1 Mode)

- **Title Bar:** The topmost bar displays the menu name, "Copy Bank Menu".
- **Source:** This indicates the origin of the data you wish to copy. In the displayed instance, the source is set to bank number '00', labeled as 'KorgM1 Factory'.
- **Target:** Here you can determine where you'd like the source data to be copied to. The given example shows the target bank set to '34', which is a 'User Bank'.
- **[▼] & [▲]:** These triangle buttons allow you to scroll through different banks.
- **[■] M1 or [●] M1R:** This button allows you to exit the menu without performing any copying action.
- **[●] M1 or [■] M1R:** Selecting this will initiate the copying process, duplicating the contents from the source bank to the target bank.

Program Capture

The capture function allows users to instantly view specific details about a program, from its name and mode to the intricate details of its oscillators. Upon selecting **capture prg** from the tools menu, a prompt appears, awaiting the capture of a new program. It's important to mention that the currently active program cannot be captured directly. To proceed, you must either navigate to a different program using the **[up]** and **[down]** buttons on the M1 or input a specific number via using **[0]** through **[9]** buttons. When you choose a new program on the M1, the Hcard immediately presents the program details:



- **Program Number and Name:** At the top, the program's identification number and name are prominently displayed. In this example, the program number is **"#000"** and its name is **"Universe"**.
- **Mode:** This indicates the oscillator mode. In this instance, the mode is set to **"Double"**, which suggests that this program uses two oscillators. Available options for mode are: **Single, Double and Drums**.
- **OSC1> Type and Waveform Number:** The type of the sound source for the first oscillator is mentioned. Available options for type are: **M1-INT, EX-INT, PCMCRD**. Here, it's **"M1-INT"** and the waveform number associated with it is **"030"**.
 - **Name:** The waveform name associated with this oscillator. In this example, it's **"Choir"**.
- **OSC2> Type and Number:** Similarly the type of sound source for the second oscillator is mentioned. Available options for type are: **M1-INT, EX-INT, PCMCRD**. For this program, it's again **"M1-INT"**, with the specific number being **"042"**.
 - **Name:** The waveform name associated with this oscillator. Here, the sound is named **"Lore"**.

Understanding Capture Function: "The Importance of Sound Source Compatibility"

The Korg M1 is equipped with a **4MB** PCM waveform ROM, including 100 multisounds and 44 drum sounds. These 100 PCM waveforms can be accessed via the program edit page, numbered from **00 to 99**. Later, Korg introduced an upgrade for the Korg M1, named the M1-EX, which expanded the PCM waveform to **8MB**, incorporating waveform numbers from **100-189**. If you load a program designed for M1-EX that references M1-EX waveforms onto the original Korg M1, the system won't display an error message. Instead, the M1 OS will arbitrarily select another waveform from its internal PCMs, possibly resulting in an inaccurate sound reproduction. A similar issue can arise if a program requires an external PCM card and you haven't installed the specific card. By using the capture function, you can verify which PCM sound type the loaded program references, ensuring compatibility with your hardware setup:

- **M1-INT:** represents M1 Internal PCM (0-99).
- **EX-INT:** indicates M1-EX PCM (100-189).
- **PCMCRD:** denotes an external PCM Card.

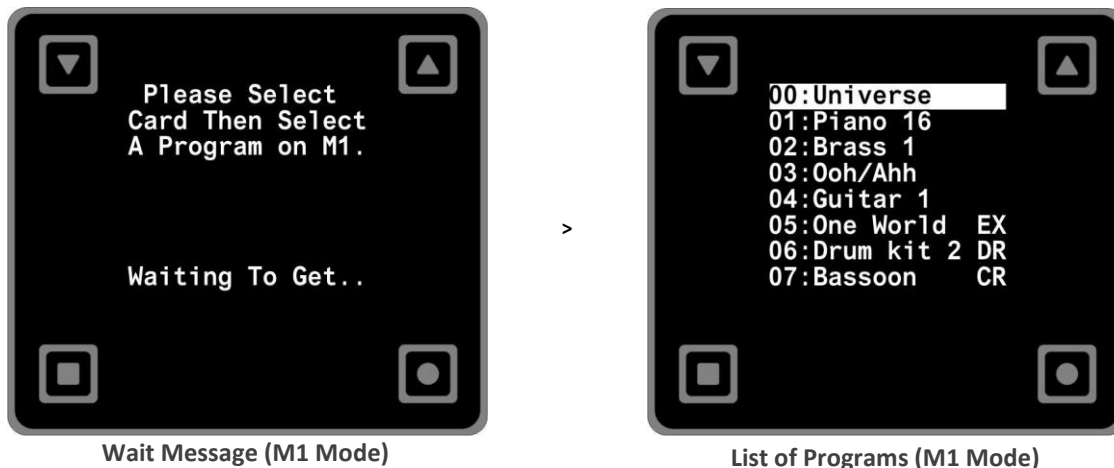
Note: For programs that reference a **PCM card**, the Korg OS has a limitation and doesn't specify which specific Korg PCM card is needed. As a result, the Hcard-101 displays **'PCMCRD'** without indicating the exact PCM card **name**. To streamline this, Hcard's soundbank follow Korg's **MPC/MSC** ROM card numbering system, from 1 to 16. For example, when selecting **bank 04: Korg MPC04 "Orchestra 1"** on Hcard-101, it's recommended to insert the **Korg MCS-04 ROM** card into the M1 for the desired sound output. However, waveform data will still be decoded even without the PCM card, mapping **MSC-01** to **MSC-16** to Hcard **Bank#00** through **#16**.



Hcard Bank 04, PRG#0

Program Listing

This menu showcases all programs within the chosen bank. When selecting 'List PRG' from the tools menu, a prompt appears, expecting a program selection. It's crucial to note that the current active program cannot be directly accessed. To continue, navigate to another program using the M1's **[up]** and **[down]** buttons or input a specific program number using the keypad with keys **[0]** to **[9]**. Once a new program is selected on the M1, the Hcard instantly displays the active program's number/name followed by the next seven programs.

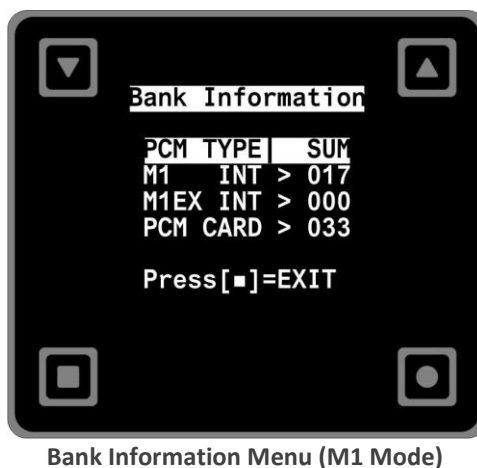


- **[▼] & [▲]**: Use these triangle buttons to navigate between pages, with each page displaying 8 programs.
- **[■] M1 or [●] M1R**: This button allows you to exit the menu.
- **[●] M1 or [■] M1R**: Press this button to access the "Bank Information Menu".

Note: Along with the program names, the listing function also shows the **PCM** source of the programs with two characters at the end of line: 'empty' indicates **M1 Internal**, 'EX' represents **M1-EX**, 'DR' denotes **Drumkit (Internal)**, and 'CR' signifies an external **PCM card**.

Bank Information Menu

In this menu, you can access a report detailing the number of programs in the active bank associated with M1 PCM, M1-EX PCM, or an external PCM card.



- **[▼] & [▲]**: Not functional in this menu.
- **[●] M1 or [■] M1R**: Not functional in this menu.
- **[■] M1 or [●] M1R**: Use this button to return to the previous page.

How to Load a Full Bank from Hcard-101 to M1?

To load a bank into the M1 internal memory from Hcard-101, follow these steps on M1:

1. Backup your internal memory to prevent data loss.
2. Ensure the internal memory protection is disabled. Navigate using **[Global]** button followed by the **[6]** button.
3. Confirm that the format of the active Hcard's bank aligns with the M1 memory allocation.
4. On the M1, press **[global]** followed by the **[8]** button. Then, hit the **[Load]** button and confirm with **[YES]**.



How to Save a Full Bank on Hcard-101?

To save a bank onto the Hcard-101, make sure the Hcard displays the Main menu then select one of the **user banks** from **34** to **63**.

1. Ensure the **protection** for the active bank on Hcard is turned **OFF**.
2. Disable the card memory protection in the M1 global menu by pressing **[Global]** button followed by the **[6]** button.
3. Verify that the Hcard's active bank format corresponds with the M1's memory allocation.
4. On the M1, press **[global]** followed by the **[9]** button. Then, hit the **[Save]** button and confirm with **[YES]**.



How to Reformat Hcard Banks?

Though the Hcard is pre-formatted from the factory, you can alter the format of the active bank. Ensure the Hcard is on the Main menu before proceeding.

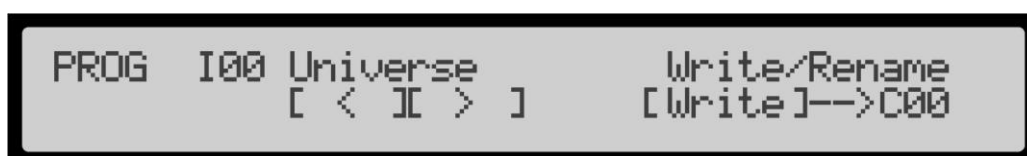
1. Ensure the **protection** for the active bank on Hcard is turned **OFF**.
2. Disable the card memory protection in the M1 global menu by pressing **[Global]** button followed by the **[6]** button.
3. On the M1, navigate through format page using : **[global]** > **[9]** > **[+Page]** buttons.
4. Choose the desired format type using **[UP]** & **[Down]** buttons. Subsequently, press the **[FORMAT]** button and validate with **[YES]**.



How to Transfer a Single Program to/from Hcard-101?

Based on the mode you've chosen on M1 (either Internal or Card) and your intended action (INT>Card or Card>INT), follow these steps:

1. On the M1, press **[EDIT PROG]** button followed by the **[9]** button.
2. Choose the desired program location with **[UP]** & **[Down]** buttons. Next, press the **[WRITE]** button and validate with **[YES]**.



Sound Library for Korg M1/M1R/Tx Series

Hcard-101 comes with 34 pre-loaded soundbanks, featuring many of the rarest Korg ROM cards and factory preload data for supported synthesizers. On top of that, it includes 11 categorized banks specifically for M1, stamped with the HyperSynth signature. These banks offer lots of programs, handpicked from thousands of available banks for the Korg M1. The layout of these soundbanks makes choosing sounds a breeze. Please pay attention to the following tips before using the soundbanks :

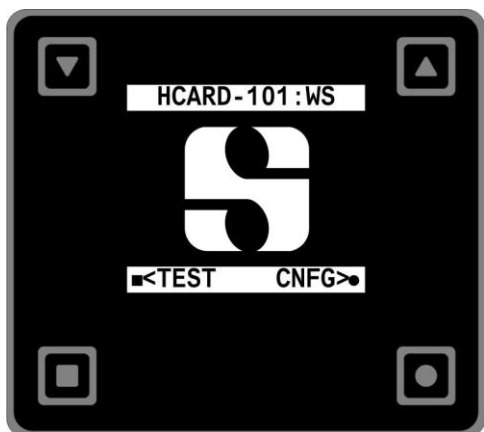
- ✓ **Banks #01 to #16:** For optimal sound output , All **Korg MPC** banks within this range require **Korg MSC PCM** card with the same numbering like (**MPC-02 and MSC-02**). Some sounds in these banks utilize the M1's internal PCM and can be used cautiously.
- ✓ **Banks #03 and #15:** To achieve the correct sound output from these Drumkit banks, it's essential to load them into the internal memory. This overwrites the drum kit data in the **global menu**. Due to a limitation in the **Korg M1 OS**, drum kits cannot be loaded directly from the card. The drum mapping is saved in internal memory and is accessible through the global menu. Note that some sounds within these banks are not drumkits and use the M1's internal PCM, so they should be used with care.
- ✓ **Banks #17 to #19:** Best suited for the **Korg M1-EX** or **T1/T2/T3** for optimal sound quality. However, certain sounds within these banks utilize the M1's internal PCM and can be used cautiously.
- ✓ **Banks #20 and #21:** These are factory preload songs for both the **Korg M1** and **M1-EX**. To preview these songs correctly, you should first load the respective factory preload banks for either the M1 or M1-EX; otherwise, the songs may not sound as intended.
- ✓ **Bank #22:** A compilation of standard sounds, organized similarly to the **General MIDI** format.
- ✓ **Banks #23 to #33:** These are HyperSynth's categorized banks, with each bank containing 100 programs. It's important to note that these banks lack combinations and are filled with default ones.
- ✓ **Banks #34 to #63:** These are reserved for user sound storage. While all banks can technically be overwritten when memory protection is turned OFF, we recommend avoiding modifications to banks #00 to #33. If you format or overwrite these banks, then restoration will be impossible."

#	Bank Name	#	Bank Name	#	Bank Name
00	Korg M1 Factory Preload	12	Korg MPC12 "Synth 3"	24	HyperSynth "Guitars"
01	Korg MPC01 "Variety"	13	Korg MPC13 "Ethnic 2"	25	HyperSynth "SynthBass"
02	Korg MPC02 "Synth 1"	14	Korg MPC14 "Sound Effects"	26	HyperSynth "Drums"
03	Korg MPC03 "Drums 1"	15	Korg MPC15 "Drums 2"	27	HyperSynth "Keys & Organs"
04	Korg MPC04 "Orchestra 1"	16	Korg MPC16 "Environment"	28	HyperSynth "Percussions"
05	Korg MPC05 "Piano"	17	Korg M1-EX Factory	29	HyperSynth "Effects"
06	Korg MPC06 "Fretted Instruments 1"	18	Korg T3 Factory A	30	HyperSynth "Strings"
07	Korg MPC07 "Synth 2"	19	Korg T3 Factory B	31	HyperSynth "Analog Emulations"
08	Korg MPC08 "Percussion"	20	Korg M1 SEQ	32	HyperSynth "Pads"
09	Korg MPC09 "Organ"	21	Korg M1-EX SEQ	33	HyperSynth "Winds"
10	Korg MPC10 "Ethnic 1"	22	General MIDI	34	User bank (34-63)
11	Korg MPC11 "Brass"	23	HyperSynth "Pianos"		

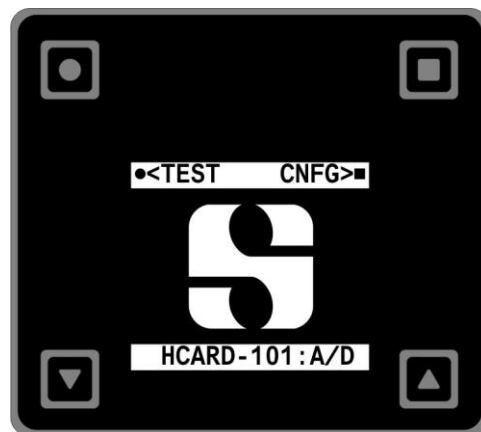
Note Regarding Korg T1/T2/T3 Series

The **Korg Tx** series offers limited capability for accessing external memory cards. These synthesizers do not provide live access to the card. Instead, you can only load an entire bank into the internal memory or save a full bank from the internal memory to the Hcard. Some functions in the tools menu, such as **Rename**, **Capture**, and **List**, are not operational in Tx mode.

Splash Screen Overview



Splash Screen (WS Mode)



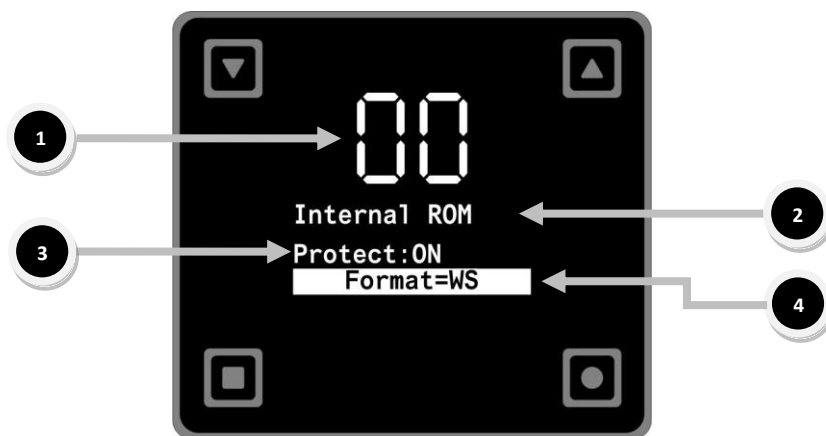
Splash Screen (WS-A/D Mode)

[▼] & [▲]: Maintain the Hcard in the splash screen while displaying a logo animation.

[■] WS or [●] A/D: Enter the **Test Menu** to perform diagnostic checks and ensure optimal functionality.

[●] WS or [■] A/D: Navigate to the **Config Menu**.

Main Menu Functions



Main Menu (WS Mode)

[1]: This field shows the active bank **number**. For the WS, the range is from 00 to 39.

[2]: This field shows the active bank **name**.

[3]: This field indicates the **protection** status of the active bank.

[4]: This field indicates the active **bank format**, Possible format is "WS".

[▲]: Press to increase the active bank number by +1. Hold for 1 second to increase the bank number more rapidly by +10.

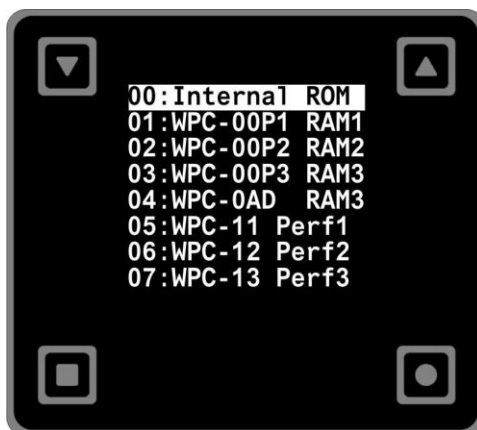
[▼]: Press to decrease the active bank number by -1. Hold for 1 second to decrease the bank number more rapidly by -10.

[■] WS or [●] A/D: Access the **tools menu**.

[●] WS or [■] A/D: Access the **bank selection menu**.

Bank Selection Menu

Bank selection menu, enabling you to navigate through and select from a list of sound banks, organized by their names.



Bank Selection Menu (WS Mode)

[▼]: Navigate to the next item in the list. If held down for 1 second, the display will advance to the subsequent page.

[▲]: Navigate to the previous item in the list. If held down for 1 second, the display will return to the preceding page.

[■] WS or [●] A/D: Exit to main menu.

[●] WS or [■] A/D: Use this button to confirm your selection and load the highlighted bank.

Tools Menu

In the Tools Menu, you have the capability to explore and adjust various features and settings associated with the banks saved on your Hcard. The navigation buttons on the left and right (▼ and ▲) help you scroll through the menu options. The square button [■] serves exit to the main menu, and circle button [●] opens the highlighted item (for A/D the function of these buttons are reversed).

1. **Write Protect:** This function allows you to secure a particular bank, preventing any accidental changes or overwrites.
2. **Rename Bank:** You can use WS UI to rename any banks, this feature is not functional in WS mode from Hcard directly.
3. **Copy Bank:** This allows you to make a duplicate of a specific bank, which can be useful when creating variations or backups.
4. **Help[QR CODE]:** It displays a QR code. By scanning this QR code with a compatible device, such as a smartphone, you'll be directed to the PDF version of this manual.



Tools Menu (WS Mode)

Each entry in the tools menu is detailed on the following page of this manual.

Write Protect Menu

Unlike vintage memory cards, the Hcard offers protection on a per-bank basis, rather than for the entire memory card. This flexibility allows users to secure specific banks while leaving others available for modifications:



Write Protect Menu (WS Mode)

- **Title Bar:** The topmost bar displays the menu name, "Protect Menu", indicating that you are in the protection settings area.
- **Bank XX:** This shows the active bank number you are viewing or editing.
- **Protect:** This displays the protection status of the selected bank. In the image, the protection is turned "ON", meaning changes can't be made to the bank without disabling the protection first.
- **Bank Name:** Below the protection status, the name of the bank is displayed. In the image, it's named "Internal ROM".
- **[■] WS or [●] A/D:** This button allows you to exit the Protect Menu and return to the main screen.
- **[●] WS or [■] A/D:** This button lets you toggle the protection status of the bank. When "ON", the bank is protected from any alterations. Switching it to "OFF" will allow modifications to the bank.
- **[▼] & [▲]:** These triangle buttons allow you to scroll through different banks.

Renaming a Bank in Hcard-101 (WaveStation Mode)

By default, the Korg WaveStation includes a feature that allows naming of external memory cards. This proves useful when interfacing with the Hcard UI. The bank formats of the WS and Hcard are fully compatible. To rename, utilize the Korg WS UI; there's no need to navigate to the "Rename Bank" submenu from the tools menu. On the Hcard, after selecting your desired bank from the main menu, continue the renaming process using the Korg WS UI. Any name assigned to the card in WS will be reflected in the active bank on Hcard.

Step-by-Step Renaming Instructions:

1. On the Hcard, select the bank you wish to rename.
2. Make sure the **protection** for the active bank is set to OFF.
3. Ensure the **card protection** on the WS is deactivated. To verify, press the **[Global]** button on the WS.
4. Within the WS global menu, press the **[UTIL]** button, then **[NAME]**. Input the new name and press the **[Write]** button.
5. The bank name is now updated. Complete!



Rename Bank Message (WS Mode)

Copy Bank Menu

Copy bank function allows you to make a duplicate of a specific bank, which can be useful when creating variations or backups. This function operates independently of the WS, ensuring there's no risk to the internal memory of your synthesizer.



Copy Bank Menu (WS Mode)

- **Title Bar:** The topmost bar displays the menu name, "Copy Bank Menu".
- **Source:** This indicates the origin of the data you wish to copy. In the displayed instance, the source is set to bank number '00', labeled as 'Internal ROM'.
- **Target:** Here you can determine where you'd like the source data to be copied to. The given example shows the target bank set to '25', which is a 'User Bank'.
- **[▼] & [▲]:** These triangle buttons allow you to scroll through different banks.
- **[■] WS or [●] A/D:** This button allows you to exit the menu without performing any copying action.
- **[●] WS or [■] A/D:** Selecting this will initiate the copying process, duplicating the contents from the source bank to the target bank

How to Load a Full Bank from Hcard-101 to WS?

To load a bank into the WS internal memory from Hcard-101, follow these steps on WS:

1. Backup your internal memory to prevent data loss.
2. Ensure the internal memory protection is disabled. To verify, press the **[Global]** button on the WS.
3. Within the WS global menu, press the **[UTIL]** button to navigate to Utilities page.
4. Within the Utilities page, select '**CARD**' for the '**From**' option and choose your preferred location, '**RAM1-3**', for the '**To**' option.
5. Depending on your goal, hit either the **[COPY]** or **[MOVE]** button.
6. The WS will display a confirmation message: '**BANK COPY FINISHED**'.



WS Utilities Page

How to Save a Full Bank on Hcard-101 from WS?

To save a bank onto the Hcard-101, make sure the Hcard displays the Main menu then select one of the **user banks** from **25** to **39**.

1. Ensure the **protection** for the active bank on Hcard is turned **OFF**.
2. Disable the card memory protection in the WS global menu by pressing **[Global]** button.
3. Within the WS global menu, press the **[UTIL]** button to navigate to Utilities page.
4. Within the Utilities page, choose your preferred location, '**RAM1-3 or Internal ROM**', for the '**From**' option then select '**CARD**' for the '**To**' option.
5. Depending on your goal, hit either the **[COPY]** or **[MOVE]** button.
6. The WS will display a confirmation message: '**BANK COPY FINISHED**'.



WS Utilities Page

How to Reformat Hcard Banks via WS?

Though the Hcard is pre-formatted from the factory, you can reformat the active bank. Ensure the Hcard is on the Main menu before proceeding.

1. Ensure the **protection** for the active bank on Hcard is turned **OFF**.
2. Disable the card memory protection in the M1 global menu by pressing **[Global]** button followed by the **[6]** button.
3. Within the WS global menu, press the **[UTIL]** button to navigate to Utilities page.
4. Within the Utilities page, press **[FORMAT]** button followed by **[YES]**.
5. The WS will display a confirmation message: '**CARD FORMAT COMPLETED**'.
6. At this point, you also have the option to rename the CARD. If you choose not to rename, simply press the **[CANCEL]** button to return to the previous page.

How to Transfer a Single Performance to/from Hcard-101?

Based on the bank mode you've chosen on WS (either Internal or Card) and your intended action (INT>Card or Card>INT), follow these steps:

1. On the WS main menu, press **[EDIT]** button followed by the **[WRITE]** button.
2. Choose the desired performance destination. Next, press the **[EXECUTE]** button. In this example **performance#0** from card will be stored in **RAM1** at location **0**.



WS Write Page

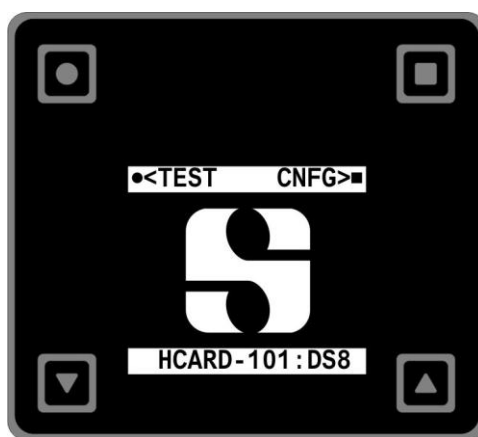
Sound Library for Korg WaveStation and WS-A/D

Hcard-101 comes with 25 pre-loaded soundbanks, featuring many of the rarest Korg ROM cards and factory preload data for WaveStation. Please pay attention to the following tips before using the soundbanks :

- ✓ **Banks #01 to #04:** Use these banks if you wish to reset your WS to its factory sounds. Ensure you copy these banks to the synthesizer's memory locations **RAM1, RAM2, and RAM3**. Previewing these banks directly from Hcard, when your WS's internal memory is loaded with different banks, may result in incorrect sound outputs. This is because the performances in these banks refer to RAM1, RAM2, and RAM3, not the **CARD** itself.
- ✓ **Banks #05 to #24:** You can freely preview these banks directly from the Hcard. If you wish to store these banks in the WS internal memory and expect accurate sound playback without the Hcard, you must use the **[MOVE]** function in the WS utility menu instead of **[COPY]**. Otherwise, the performance in the internal memory will reference the Hcard.
- ✓ **Banks #13 to #14:** For optimal sound, these banks are best utilized with the **WaveStation EX** or **WaveStation A/D** version hardware.
- ✓ **Banks #16 to #18:** For optimal sound output , these banks require **Korg WSC-01, WSC-02 and WSC-03 PCM ROM** cards.
- ✓ **Banks #25 to #39:** These are reserved for user sound storage. While all banks can technically be overwritten when memory protection is turned OFF, we recommend avoiding modifications to banks #00 to #24. If you format or overwrite these banks, then restoration will be impossible."

#	Bank Name	#	Bank Name	#	Bank Name
00	Korg WS Internal ROM	09	Korg WPC-15 "Dance/Top 40"	18	Korg WPC-3S "Synth & Time Slice"
01	Korg WPC-00PI RAM1 factory preload	10	Korg WPC-16 "Wavestation Omnibus"	19	MCR03-WS "Legendary Prophet-VS Sounds"
02	Korg WPC-00PII RAM2 factory preload	11	Korg WPC-17 "Studio Collection"	20	MCR03-WS1 "Standard Synthesizer Sounds"
03	Korg WPC-00PIII RAM3EX factory preload	12	Korg WPC-18 "U.K. Modern"	21	MCR03-WS2 "Future Pad Sounds"
04	Korg WPC-0AD RAM3AD	13	Korg WPC-19ex "Film Textures"	22	MCR03-WS3 "Dancing Wavestation"
05	Korg WPC-11 "Performance 1"	14	Korg WPC-20ex "Song Factory"	23	MCR03-WS4 "Vocoder Effects & External"
06	Korg WPC-12 "Performance 2"	15	Korg WPC-J01 "Analog Freak"	24	MCR03 "Vector World"
07	Korg WPC-13 "Performance 3"	16	Korg WPC-1S "Piano"	25	User bank (25-39)
08	Korg WPC-14 "Analog & VS"	17	Korg WPC-2S "Drums & Percussion"		

Splash Screen Overview



Splash Screen (DS-8 Mode)

[▼] & [▲]: Maintain the Hcard in the splash screen while displaying a logo animation.

[●]: Enter the **Test Menu** to perform diagnostic checks and ensure optimal functionality.

[■]: Navigate to the **Config Menu**.

Main Menu Functions



Main Menu (DS-8 Mode)

[1]: This field shows the active bank **number**. For the DS-8, the range is from 00 to 23.

[2]: This field shows the active bank **name**.

[3]: This field indicates the **protection** status of the active bank.

[4]: This field indicates the active **bank format**, Possible format is "DS8".

[▲]: Press to increase the active bank number by +1. Hold for 1 second to increase the bank number more rapidly by +10.

[▼]: Press to decrease the active bank number by -1. Hold for 1 second to decrease the bank number more rapidly by -10.

[●]: Access the **tools menu**.

[■]: Access the **bank selection menu**.

Bank Selection Menu

Bank selection menu, enabling you to navigate through and select from a list of sound banks, organized by their names.



Bank Selection Menu (DS-8 Mode)

[▼]: Navigate to the next item in the list. If held down for 1 second, the display will advance to the subsequent page.

[▲]: Navigate to the previous item in the list. If held down for 1 second, the display will return to the preceding page.

[●]: **Exit** to main menu.

[■]: Use this button to confirm your selection and load the highlighted bank.

Tools Menu

In the Tools Menu, you have the capability to explore and adjust various features and settings associated with the banks saved on your Hcard. The navigation buttons on the left and right (▼ and ▲) help you scroll through the menu options. The circle button [●] serves exit to the main menu, and square button [■] opens the highlighted item.

1. **Write Protect:** This function allows you to secure a particular bank, preventing any accidental changes or overwrites.
2. **Rename Bank:** Not functional in DS-8 Mode.
3. **Copy Bank:** This allows you to make a duplicate of a specific bank, which can be useful when creating variations or backups.
4. **Help[QR CODE]:** It displays a QR code. By scanning this QR code with a compatible device, such as a smartphone, you'll be directed to the PDF version of this manual.



Tools Menu (DS-8 Mode)

Each entry in the tools menu is detailed on the following page of this manual.

Write Protect Menu

Unlike vintage memory cards, the Hcard offers protection on a per-bank basis, rather than for the entire memory card. This flexibility allows users to secure specific banks while leaving others available for modifications:



- **Title Bar:** The topmost bar displays the menu name, "Protect Menu", indicating that you are in the protection settings area.
- **Bank XX:** This shows the active bank number you are viewing or editing.
- **Protect:** This displays the protection status of the selected bank. In the image, the protection is turned "ON", meaning changes can't be made to the bank without disabling the protection first.
- **Bank Name:** Below the protection status, the name of the bank is displayed. In the image, it's named "Korg DS8 Factory".
- **[●]:** This button allows you to exit the Protect Menu and return to the main screen.
- **[■]:** This button lets you toggle the protection status of the bank. When "ON", the bank is protected from any alterations. Switching it to "OFF" will allow modifications to the bank.
- **[▼] & [▲]:** These triangle buttons allow you to scroll through different banks.

Renaming a Bank:

Due to the limitations of the Korg DS-8 operating system, it is not possible to rename the Hcard bank in DS-8 mode. In this scenario, all bank names remain unchanged and are pre-set by the factory.



Copy Bank Menu

Copy bank function allows you to make a duplicate of a specific bank, which can be useful when creating variations or backups. This function operates independently of the DS-8, ensuring there's no risk to the internal memory of your synthesizer.



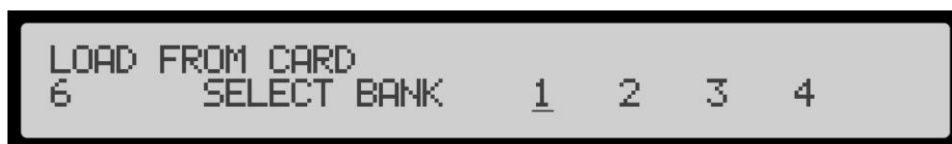
Copy Bank Menu (DS-8 Mode)

- **Title Bar:** The topmost bar displays the menu name, "Copy Bank Menu".
- **Source:** This indicates the origin of the data you wish to copy. In the displayed instance, the source is set to bank number '00', labeled as 'Korg DS8 Factory'.
- **Target:** Here you can determine where you'd like the source data to be copied to. The given example shows the target bank set to '05', which is a 'User Bank'.
- **[▼] & [▲]:** These triangle buttons allow you to scroll through different banks.
- **[◀]:** This button allows you to exit the menu without performing any copying action.
- **[▶]:** Selecting this will initiate the copying process, duplicating the contents from the source bank to the target bank

How to Load a Full Bank from Hcard-101 to DS-8?

To load a bank into the DS-8 internal memory from Hcard-101, follow these steps on DS-8:

1. Backup your internal memory to prevent data loss.
2. Ensure the internal memory protection is disabled. To verify, press the **[Function]** followed by **[4]**.
3. Within the DS-8 function menu, press the **[6]** button to navigate to 'load' submenu.
4. Ensure that bank '1' is selected.
5. Press **[YES]** button followed by **[YES]** for confirmation.
6. The DS-8 will display a confirmation message: '**LOAD COMPLETED**'.



DS-8 Load Submenu

How to Save a Full Bank on Hcard-101 from DS-8?

To save a bank onto the Hcard-101, make sure the Hcard displays the Main menu then select one of the **user banks** from **05** to **23**.

1. Ensure the **protection** for the active bank on Hcard is turned **OFF**.
2. Disable the card memory protection in the DS-8 by pressing **[Function]** button followed by **[4]**.
3. Within the DS-8 function menu, press the **[5]** button to navigate to 'save' submenu.
4. Ensure that bank '**1**' is selected.
5. Press **[YES]** button followed by **[YES]** for confirmation.
6. The DS-8 will display a confirmation message: '**SAVE COMPLETED**'.



DS-8 Save Submenu

How to Transfer a Single Performance to/from Hcard-101?

Based on the bank mode you've chosen on DS-8 (either Internal or Card) and your intended action (INT>Card or Card>INT), follow these steps:

1. On the DS-8 main menu, press **[WRITE]**.
2. Choose the desired voice destination. Next, press the **[YES]** button . In this example **voice#0** from internal memory will be stored in external memory 'Hcard active bank voice#02 location'.



DS-8 Write Submenu

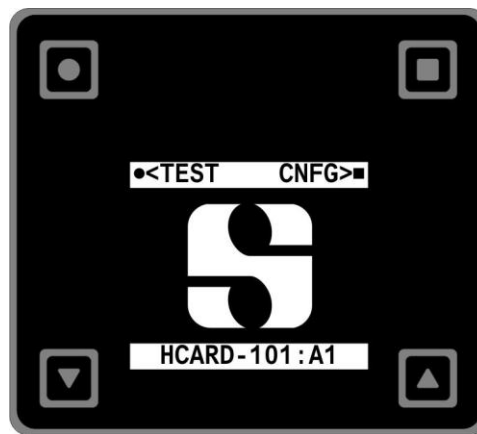
Sound Library for Korg DS-8

Hcard-101 comes with 5 pre-loaded soundbanks, featuring Korg DSCU-400 ROM card and factory preload data for DS-8. Pleaes pay attention to the following tips before using the soundbanks :

- ✓ **Banks #05 to #23:** These are reserved for user sound storage. While all banks can technically be overwritten when memory protection is turned OFF, we recommend avoiding modifications to banks #00 to #04. If you format or overwrite these banks, then restoration will be impossible."

#	Bank Name	#	Bank Name	#	Bank Name
00	Korg DS8 Factory Preload	02	Korg DSCU-400 Synth Special Effects	04	Korg DSCU-400 Factory Programs
01	Korg DSCU-400 Performance Patches	03	Korg DSCU-400 NY Session Sounds	05	User bank (05-23)

Splash Screen Overview



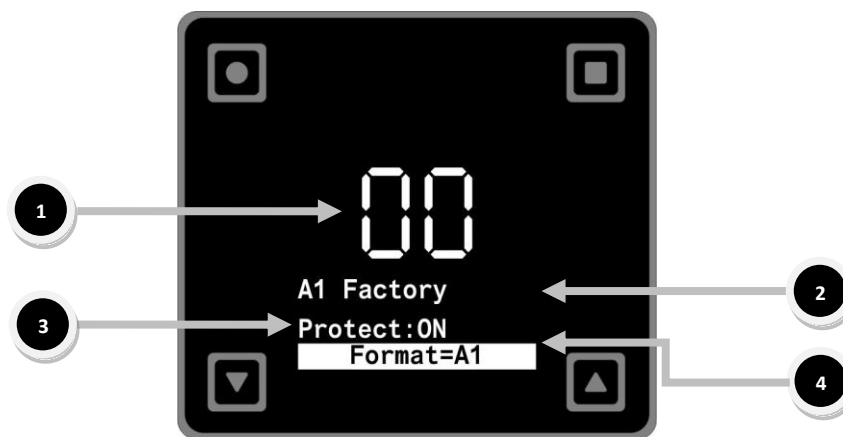
Splash Screen (A1 Mode)

[▼] & [▲]: Maintain the Hcard in the splash screen while displaying a logo animation.

[●]: Enter the **Test Menu** to perform diagnostic checks and ensure optimal functionality.

[■]: Navigate to the **Config Menu**.

Main Menu Functions



Main Menu (A1 Mode)

[1]: This field shows the active bank **number**. For the A1, the range is from 00 to 15.

[2]: This field shows the active bank **name**.

[3]: This field displays the **protection** status of the active selected bank, with the possible states being '**ON**' or '**OFF-LOCK**'. It's important to note that in A1 mode, you are unable to save a bank or program to the Hcard directly from the main menu. Instead, you must go to **Tools > Save/Write** menu to perform the save/write operation.

[4]: This field indicates the active **bank format**, Possible format is "**A1**".

[▲]: Press to increase the active bank number by +1. Hold for 1 second to increase the bank number more rapidly by +10.

[▼]: Press to decrease the active bank number by -1. Hold for 1 second to decrease the bank number more rapidly by -10.

[●]: Access the **tools menu**.

[■]: Access the **bank selection menu**.

Bank Selection Menu

Bank selection menu, enabling you to navigate through and select from a list of sound banks, organized by their names.



Bank Selection Menu (A1 Mode)

[▼]: Navigate to the next item in the list. If held down for 1 second, the display will advance to the subsequent page.

[▲]: Navigate to the previous item in the list. If held down for 1 second, the display will return to the preceding page.

[●]: Exit to main menu.

[■]: Use this button to confirm your selection and load the highlighted bank.

Tools Menu

In the Tools Menu, you have the capability to explore and adjust various features and settings associated with the banks saved on your Hcard. The navigation buttons on the left and right (▼ and ▲) help you scroll through the menu options. The circle button [●] serves exit to the main menu, and square button [■] opens the highlighted item.

1. **Write Protect:** This function allows you to secure a particular bank, preventing any accidental changes or overwrites.
2. **Rename Bank:** Utilize this feature to give a custom name to a bank for easy identification and retrieval.
3. **Copy Bank:** This allows you to make a duplicate of a specific bank, which can be useful when creating variations or backups.
4. **Help[QR CODE]:** It displays a QR code. By scanning this QR code with a compatible device, such as a smartphone, you'll be directed to the PDF version of this manual.
5. **Save/Write:** Use this function to save an entire bank or an individual program from A1 onto the Hcard-101.



Tools Menu (A1 Mode)

Each entry in the tools menu is detailed on the following page of this manual.

Write Protect Menu

Unlike vintage memory cards, the Hcard offers protection on a per-bank basis, rather than for the entire memory card. This flexibility allows users to secure specific banks while leaving others available for modifications:



Write Protect Menu (A1 Mode)

- **Title Bar:** The topmost bar displays the menu name, "Protect Menu", indicating that you are in the protection settings area.
- **Bank XX:** This shows the active bank number you are viewing or editing.
- **Protect:** This displays the protection status of the selected bank. In the image, the protection is turned "ON", meaning changes can't be made to the bank without disabling the protection first.
- **Bank Name:** Below the protection status, the name of the bank is displayed. In the image, it's named "A1 Factory".
- **[●]:** This button allows you to exit the Protect Menu and return to the main screen.
- **[■]:** This button lets you toggle the protection status of the bank. When "ON", the bank is protected from any alterations. Switching it to "OFF" will allow modifications to the bank.
- **[▼] & [▲]:** These triangle buttons allow you to scroll through different banks.

Rename Bank Menu

The "Rename Menu" facilitates the renaming of specific banks in your Hcard, offering a clear step-by-step process to ensure efficient and mistake-free renaming. Given that the Hcard has a limited number of buttons, which are already allocated to other functions, renaming must be carried out with the assistance of the **Korg A1 UI**. When you access the Rename Menu of Hcard and modify the name of **program:00** through the A1, the Hcard captures this name and assigns it to the **active bank**. Following this action, the contents of the active bank are automatically reloaded to address any overwriting of **program:00**.



Rename Bank Menu (A1 Mode)

Step-by-Step Renaming Instructions:

1. Ensure program:00 of the card is active on the A1.
2. Ensure Hcard main menu is selected.
3. On the A1, press the **[WRITE]** button, followed by the **[RENAME]** button to access the Rename page.
4. Enter your new name then press **[EXIT]** button.
5. On Hcard, navigate to rename menu **Tools>Rename**.
6. On M1, Press **[WRITE]** button followed by **[YES]**.
7. The bank name will be updated, and the Hcard will transition from the rename menu back to the main menu.



Korg A1 Write/Rename Page

Copy Bank Menu:

- **Title Bar:** The topmost bar displays the menu name, "Copy Bank Menu".
- **Source:** This indicates the origin of the data you wish to copy. In the displayed instance, the source is set to bank number '00', labeled as 'A1 Factory'.
- **Target:** Here you can determine where you'd like the source data to be copied to. The given example shows the target bank set to '09', which is a 'User Bank'.
- **[▼] & [▲]:** These triangle buttons allow you to scroll through different banks.
- **[●]:** This button allows you to exit the menu without performing any copying action.
- **[■]:** Selecting this will initiate the copying process, duplicating the contents from the source bank to the target bank



Rename Bank Menu (A1 Mode)

How to Load a Full Bank from Hcard-101 to A1?

To load a bank into the A1 internal memory from Hcard-101, follow these steps on A1:

1. Backup your internal memory to prevent data loss.
2. Ensure the internal memory protection is disabled. To verify, press the **[UTILITY]** followed by **[MEMO]**.
3. Within the A1 Utility menu, press the **[CARD]** button to navigate to 'Load/Save' page.
4. Initiate the load process by pressing **[LOAD]**, then confirm by selecting **[YES]**.
5. The A1 will display a confirmation message: **'COMPLETED'**.



A1 Load/Save Page

How to Save a Full Bank on Hcard-101 from A1?

To save a bank onto the Hcard-101, make sure the Hcard displays the Main menu then select one of the **user banks** from **09** to **15**.

1. Ensure the **protection** for the active bank on Hcard is turned **OFF**.
2. Ensure card is selected as program source on A1, you can verify this by pressing **[INT/CARD]** button.
3. To navigate to A1 'Load/Save' page, press the **[UTILITY]** followed by **[CARD]** and **[SAVE]**.
4. On Hcard, navigate to 'Save/Write' menu by pressing **[■]** button then selecting **item 5** from the list.
5. On A1, Press **[YES]** button to initiate the save process.
6. The A1 will display a confirmation message: **'WRITE PROTECTED RAM CARD INSERTED'**
7. The bank will be stored, and the Hcard will transition from the 'Save/Write' menu back to the main menu.
8. On A1, Press **[EXIT]** two times followed by **[PLAY]** button to get back to play mode and checking the stored bank.



A1 Load/Save Page

How to Transfer a Single Program to/from Hcard-101?

Based on the bank mode you've chosen on A1 (either Internal or Card) and your intended action (INT>Card or Card>INT), follow these steps:

1. On the A1, press the **[WRITE]** button, to access 'Write page'.
2. On A1, choose the desired voice destination. Next, press the **[WRITE]** button . In this example **program#0** from internal memory will be stored in external memory 'Hcard active bank voice#00 location'.
3. On Hcard, navigate to 'Save/Write' menu by pressing **[■]** button then selecting **item 5** from the list.
4. On A1, Press **[YES]** button.
5. The A1 will display a confirmation message: **'COMPLETED'**.
6. The program will be stored, and the Hcard will transition from the 'Save/Write' menu back to the main menu.



A1 Write Page

Sound Library for Korg A1

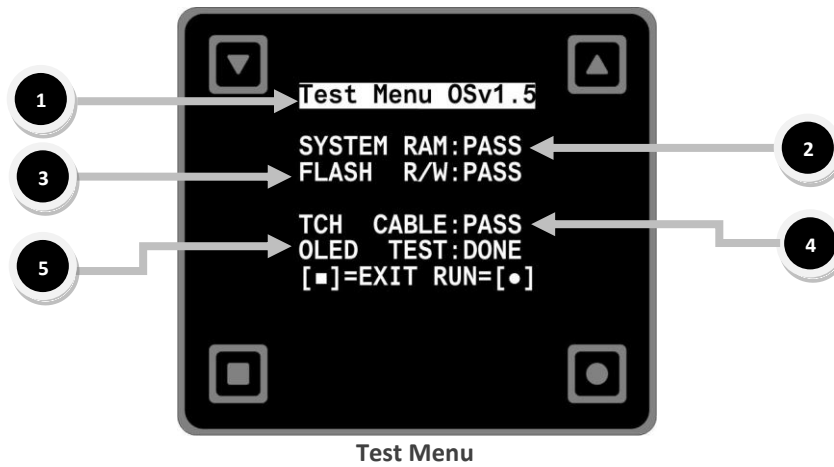
Hcard-101 includes 8 pre-installed soundbanks, which contain the equivalent of 8 Korg ROM cards specifically designed for the A1 unit, along with factory preloaded data. Please take note of the following advice before utilizing the soundbanks

- ✓ **Bank Selection Notice:** Due to the Korg A1's operating system limitations and its unique, somewhat odd method of memory card interaction, the message **'WRITE PROTECTED RAM CARD INSERTED'** will display each time a new bank is selected, irrespective of the bank's write-protection status. This is an expected behavior. To clear this message, press the **[EXIT]** button on the A1.
- ✓ **Banks #09 to #15:** These are reserved for user sound storage. While all banks can technically be overwritten when memory protection is turned OFF, we recommend avoiding modifications to banks #00 to #08. If you format or overwrite these banks, then restoration will be impossible."

#	Bank Name	#	Bank Name	#	Bank Name
00	Korg A1 Factory Preload	04	Korg A1 Guitar	08	Korg A1 Studio
01	Korg A1 DelayAcou	05	Korg A1 LA Session	09	User bank (09-15)
02	Korg A1 DistSpWah	06	Korg A1 Modulation		
03	Korg A1 EQDrumPanRspTrem	07	Korg A1 Reverb		

Test Menu

In the **Test Menu**, diagnostic evaluations are performed to confirm the hardware is functioning as expected.



[1]: The topmost bar displays the menu title '**Test Menu OSv1.5**', indicating the version of the Hcard-101 firmware.

[2]: **SYSTEM RAM: PASS** signifies the system RAM of the Hcard is operating correctly. If it were to indicate '**FAIL**', it would suggest a malfunction in the RAM circuitry, potentially involving **U1 chip** on the Hcard-101 main board or a connection issue with its pins.

[3]: **FLASH R/W: PASS** indicates successful read/write operations for the flash memory. A '**FAIL**' would imply a problem with the flash memory operations, potentially pointing to a fault in **U7 chip** or its connection to the main board.

[4]: **TCH CABLE: PASS** confirms a secure connection via the **8-pin FFC** cable between the Hcard's main board and touch board. A '**Disconnect!**' status would mean the cable isn't properly connected, causing the card to boot in Test Menu mode by default and not proceed with normal startup.

[5]: **OLED TEST: DONE** notes the completion of the OLED display test. Completion of this test requires user verification to confirm the display's functionality, as '**DONE**' simply means the test cycle finished and doesn't automatically imply the OLED is in perfect condition.

[▲] & [▼]: Not functional in test menu.

[●]: Rerun the diagnostic tests..

[■]: Exit the Test Menu and reboot the Hcard-101.

Troubleshooting

Are you experiencing issues with the Hcard not performing correctly or failing to execute save/write operations as expected? Ensure that you have selected the appropriate **MODE** from the configuration menu to align the Hcard's settings with your specific Korg device.

Why am I unable to switch from the M1's internal memory to the Hcard or vice versa? This typically occurs if the M1 is referencing a program number that exceeds the range of the active bank on the Hcard or vice versa. For instance, if the M1's internal memory is configured for **100 programs/100 combinations** and the Hcard's active bank is set for **50 programs/50 combinations**, and you attempt to select program **#85**, the M1 will not switch to the Hcard. To resolve this, choose a program within the range of 00-49 before attempting to switch to the card.

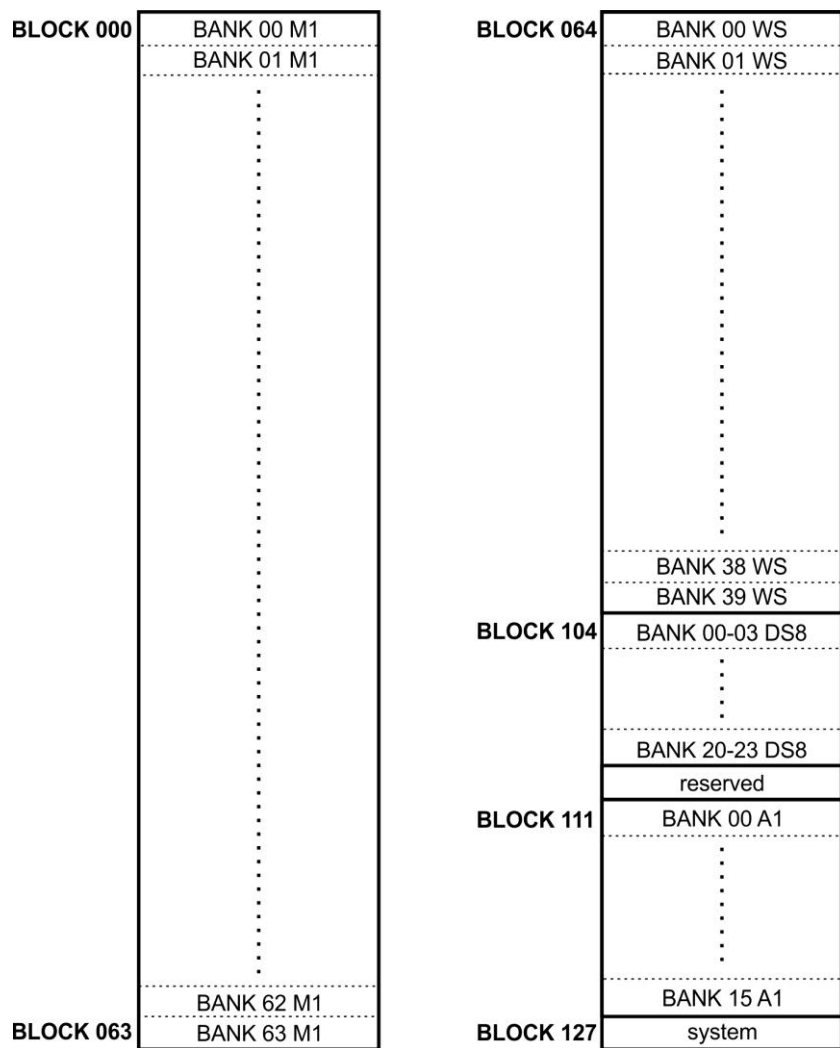
Why does the M1 sometimes unexpectedly switch from the Hcard to its internal memory when I use the Capture/List function in M1 mode? The Capture/List function requires a short duration to read data from the memory card bus. During this brief interval, the bus is engaged by the Hcard. If the M1 attempts to access the bus while it's occupied and encounters a busy status, it will default back to its internal memory. To avoid this, it is recommended that users wait at least half a second after selecting a new program on the M1 before initiating a capture.

Why does my Hcard always start in the Test Menu? This typically indicates that the 8-pin FFC (Flat Flexible Cable) connecting the main board and the touch board of the Hcard is not properly seated. To resolve this issue, the user or technician needs to carefully open the Hcard to inspect the FFC cable and its socket. It's essential to check that the connections on both the main board and the touch board are secure and properly aligned.

Technical Specification

- **Memory Size:** 4 Megabytes, capable of storing 126 banks.
- **Compatibility:** Korg M1, M1-EX, M1R, M1R-EX, T1, T2, T3, WaveStation series (WS, WS-EX, WS A/D), DS8, and A1 models.
- **Operating System:** Comes with the initial version 1.5 installed.
- **USB Connection:** 1 Micro USB connector, utilized solely for debugging purposes and connection to the H-Display module.
- **Power Consumption:** 0.5 Watts Standby; 2 Watts Maximum (powered at 5V DC, via the Korg memory card slot).
- **DIMENSIONS (WXHxD):** 6.7 cm x 12.7 cm x 1.6 cm (7.7cm x 14.2cm x 3.0cm with packing).
- **WEIGHT:** 0.1 Kg (0.18 Kg with packing).

Memory Architecture Diagram:



*Block Size: 256Kbit (32KB), Entire Memory Size: 256Kbx128=32,768Kb (4.096MB)

