

# MEX-8000

## MEMORY EXPANDER OWNER'S MANUAL



# KORG®

Thank you and congratulations on your purchase of the KORG MEX-8000. To obtain optimum performance and assure long service life, please read this manual carefully before using this product.

## MEX-8000 MAJOR FEATURES

1 The MEX-8000 is a Program Expander capable of storing 256 program settings ( $64 \times 4$ ). It's ideal for use with the DW-8000, EX-8000, DW-6000, DVP-1, POLY-800II, POLY-800+MDK. The MEX-8000 receives and transmits data in digital form, for fast storage and retrieval via MIDI.

2 The MEX-8000 contains 4 memory banks — A, B, C & D — and each is capable of storing 64 program settings. Each bank can be used to store data for particular instrument. For example, use bank A for the DW-8000, bank B for the DW-6000, etc.

3 The MEX-8000 features a MIDI (THRU) connector, for use while connected with other MIDI units.

## IMPORTANT SAFETY PRECAUTIONS

### ■ LOCATION

Do not use this unit for extended periods of time where it is exposed to:

- direct sunlight
- extremes of temperature
- sand or dust

### ■ HANDLE WITH CARE

Switches and connectors are designed to provide positive operation with a gentle touch. Do not use force.

### ■ CLEANING EXTERIOR SURFACES

Wipe the exterior lightly with a clean, dry, soft cloth to remove dust and dirt. Never use strong solvents like benzine or paint thinner, rubbing compound or flammable polishing agents.

### ■ INTERFERENCE

This unit uses microcomputer circuitry. Like all such devices, it is subject to interference from nearby electrical devices such as fluorescent lamps, appliances with motors, and so on. If operation becomes erratic or unpredictable, or if there is no response when you press a key on the unit, then interference may be the cause. If this occurs, try turning the LINE SELECT/POWER switch OFF, then ON. This resets (or initializes) the microcomputer chip.

### ■ KEEP THIS MANUAL

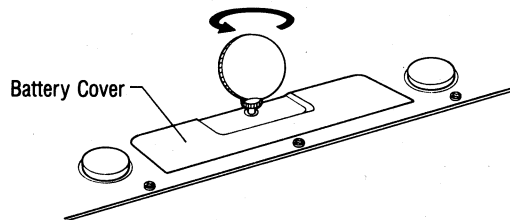
Please store this manual in a safe place for future reference.

## ■ POWER SUPPLY

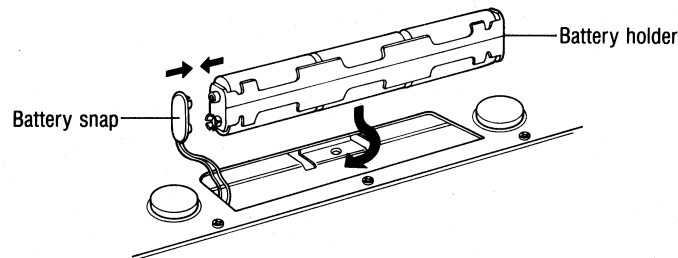
- This unit requires 6 size AA (sum-3) batteries. Perform the following procedure when inserting batteries.
- ① Be sure that the LINE SELECT/POWER switch is turned OFF.



- ② Using a coin, remove the battery cover on the back side of the unit.



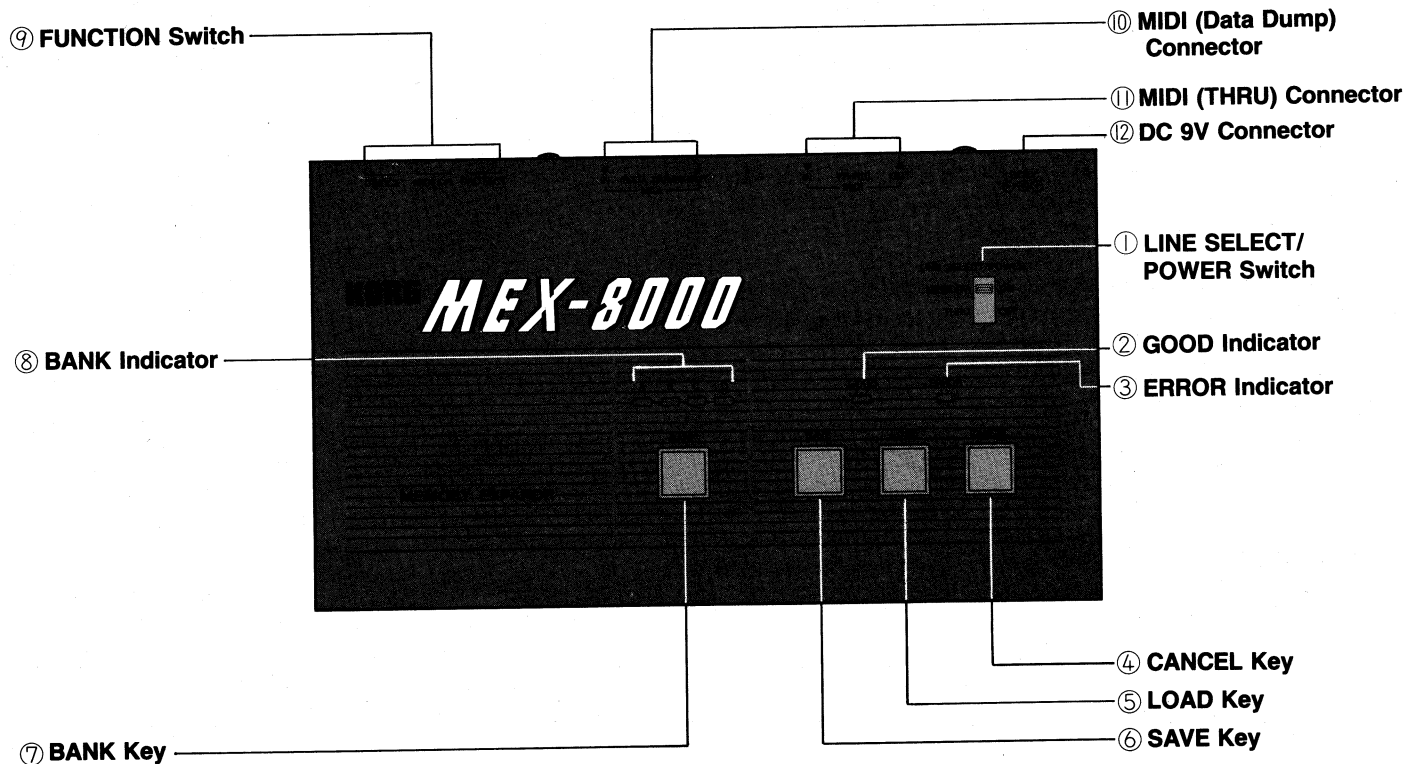
- ③ Connect the battery snap to the battery holder and insert in the unit.



- ④ Replace battery cover.

- Power may also be supplied from a household outlet by using the KORG AC adaptor (optional). Do not use any other type of adaptor, as use will cause malfunction. Be sure that the LINE SELECT/POWER switch is turned OFF when connecting the AC adaptor.

# FEATURES AND FUNCTIONS



① **LINE SELECT/POWER Switch**

This turns power ON and OFF. It also is used as a "LINE SELECT" switch. The Line Select function determines whether data input/output through the MIDI (Data Dump) Connector is connected to the "Internal Memory" or the MIDI (THRU) Connector.

When turning MEX-8000 power ON, be sure that connected unit's power is turned on first, after checking connections.

② **GOOD Indicator**

This lights when data has been correctly Loaded, or Saved in memory.

③ **ERROR Indicator**

This lights when an error has been made in the LOAD or SAVE procedures.

④ **CANCEL Key**

Press this key when an error message appears during the LOAD or SAVE operations. Returns the MEX-8000 to normal status.

⑤ **LOAD Key**

This is used to LOAD data from the MEX-8000 into a connected MIDI unit.

⑥ **SAVE Key**

This is used to SAVE data from a connected unit in the MEX-8000.

⑦ **BANK Key**

This is used to specify the BANK in which LOAD or SAVE is performed.

⑧ **BANK Indicators**

These show the BANK which has been selected with the BANK Key. When power is turned ON, BANK "A" indicator lights.

⑨ **FUNCTION Switch**

This is used to set functions in the LOAD or SAVE modes. There are 3 functions; (See page 8 for details.)

**DEVICE** : This is used to specify the type of device connected.

**MIDI CH** : This is used to set the MIDI channel to be used.

**PROTECT** : This is used to protect data already in memory.

⑩ **MIDI (Data Dump) Connector**

This connector is used for the input/output of data. Data input/output through this connector is possible when the LINE SELECT/POWER switch is set to MEMORY/ON.

⑪ **MIDI (THRU) Connector**

When the LINE SELECT/POWER switch is set to THRU/OFF, the IN, OUT terminals of this connector are connected to the OUT, IN terminals of the MIDI (Data Dump) Connector. (Used as a MIDI THRU Connector.)

⑫ **DC 9V Connector**

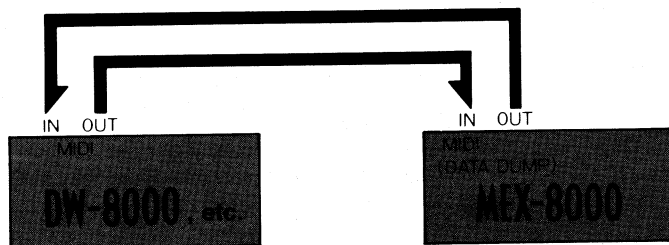
KORG AC adaptor may be connected here when used.

# BASIC SETUP

## 1. CONNECTION

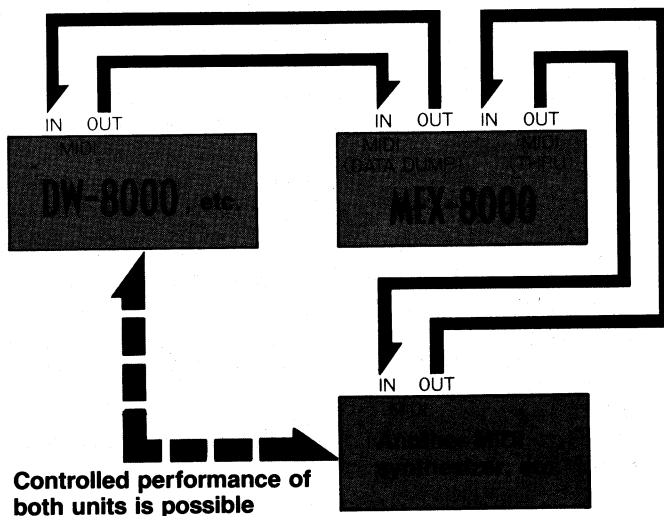
### 1 Basic Connection

Connect the MEX-8000 MIDI (Data Dump) Connector IN, OUT terminals to the MIDI OUT, IN terminals of another MIDI unit as shown below.



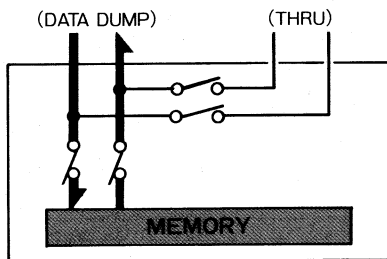
### 2 MIDI (THRU) Connector

By connecting another MIDI unit (synthesizer, etc.) to the MEX-8000 MIDI (THRU) Connectors, performance is possible even with the first unit connected to the MIDI (Data Dump) Connectors. However, the LINE SELECT/POWER switch must be set to THRU/OFF.

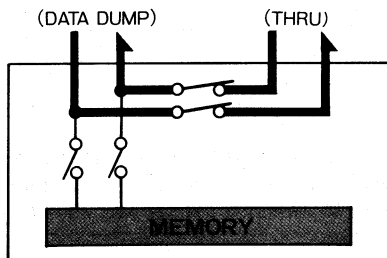


- 3** The MEX-8000's internal connections change according to the setting of the LINE SELECT/POWER switch, in the following ways;

① LINE SELECT/POWER Switch set to MEMORY/ON

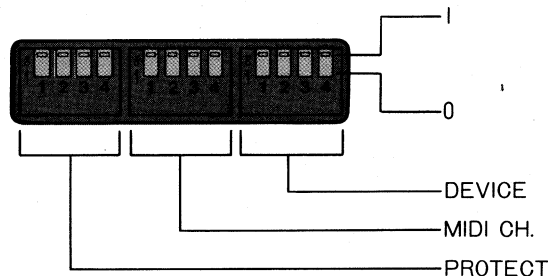


② LINE SELECT/POWER Switch set to THRU/OFF



## 2. SETTING THE FUNCTION SWITCH

- The FUNCTION Switch sets the function within the LOAD and SAVE modes. There are 3 functions which may be selected; DEVICE, MIDI CH. and PROTECT. Each function has 4 switches (sw 1 ~ sw 4). The position of these switches determines the settings of the LOAD and SAVE modes.



### NOTES:

- ★ Do not change the position of these switches during an actual SAVE or LOAD operation.

### 1 DEVICE Switch

Set these according to the type of MIDI device which is connected to the MEX-8000. The unit will malfunction if these switches are not in the proper positions. Set correctly according to the chart shown below.

SW1	SW2	SW3	SW4	Device
0	0	0	0	DW-8000/EX-8000
0	0	0	1	DW-6000
0	0	1	0	DVP-1
0	0	1	1	POLY-800II
0	1	0	0	EX-800
0	1	0	1	POLY-800 + MDK
0	1	1	0	Not used
1	1	1	1	

However, if the connected device is capable of sound data dump by itself then LOAD, SAVE operations may be performed with these switches set to 0110. At this time, Bank D may not be used.



## 2 MIDI CH. Switches

These are used to set the MIDI Channel wherein MIDI data is transmitted/received. These should be set if the reciprocal unit is a DW-8000, EX-8000, DW-6000 or DVP-1. If any other MIDI device is used these should be set to ch. 1 (0000).

SW1	SW2	SW3	SW4	MIDI CHANNEL
0	0	0	0	ch 1
0	0	0	1	ch 2
0	0	1	0	ch 3
0	0	1	1	ch 4
0	1	0	0	ch 5
0	1	0	1	ch 6
0	1	1	0	ch 7
0	1	1	1	ch 8
1	0	0	0	ch 9
1	0	0	1	ch 10
1	0	1	0	ch 11
1	0	1	1	ch 12
1	1	0	0	ch 13
1	1	0	1	ch 14
1	1	1	0	ch 15
1	1	1	1	ch 16

## 3 PROTECT Switches

These are set to protect sound data in a particular BANK. When in the PROTECT ON position no new data can be Saved in that BANK. When in the PROTECT OFF position, SAVE operation is possible.

	SW1	SW2	SW3	SW4
	BANK A	BANK B	BANK C	BANK D
PROTECT ON	1	1	1	1
PROTECT OFF	0	0	0	0

# SAVE PROCEDURE

- The SAVE mode is used to transfer data from a connected MIDI device and SAVE it in the MEX-8000 memory.



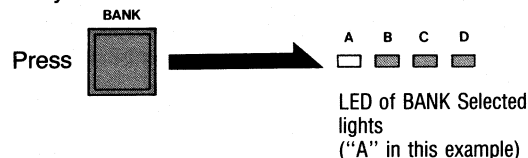
- To SAVE data, perform the following procedure;

## PROCEDURE

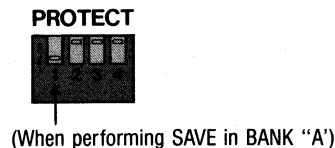
- ① Connect the MEX-8000 to another MIDI device, making sure that DEVICE switches and MIDI CH. Switches are positioned properly.

★ When performing a SAVE operation with data from DW-8000, EX-8000, DW-6000 or DVP-1, MIDI ENABLE parameters must be set to "ALL". Failure to set to ALL will result in an ERROR.

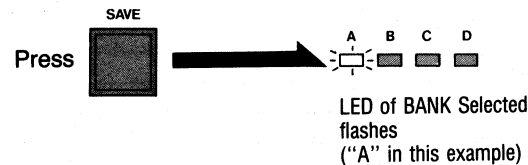
- ② Select the BANK in which you wish to SAVE data with the BANK key.




- ③ Turn OFF the PROTECT function for the BANK selected.



- ④ Press the SAVE Key. At this time, SAVE operation begins, and the selected BANK's Indicator flashes.



- ⑤ If the SAVE procedure was performed correctly the GOOD indicator lights for approximately 1 second, after which the MEX-8000 returns to normal status.

GOOD  
 Lights for approximately  
1 second

If the SAVE procedure was not performed correctly the ERROR indicator lights.

ERROR  
 Lights in case of an  
ERROR

After, an ERROR, press the CANCEL key, resetting the unit, and perform the SAVE procedure once again after checking connections, switch settings etc.

Press  after an ERROR

- ⑥ After the SAVE procedure has been completed correctly, turn ON the PROTECT function for that BANK.

PROTECT



**NOTES:**

- ★ Do not touch the connected MIDI unit's keyboard, joystick or Program Selection keys during the SAVE operation, as this may cause a malfunction.
- ★ When Saving data from a POLY-800II, POLY-800 + MDK or EX-800, sequencer data is put into memory along with sound data. It is not possible to SAVE these two types of data separately.

# LOAD PROCEDURE

- The LOAD mode is used to transfer sound data from the MEX-8000 memory banks into a connected MIDI device (synthesizer, etc.).



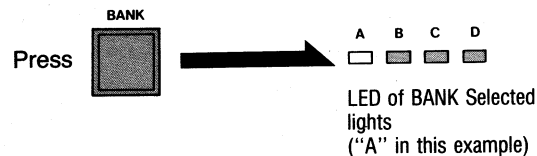
- To LOAD data, perform the following procedure;

## PROCEDURE

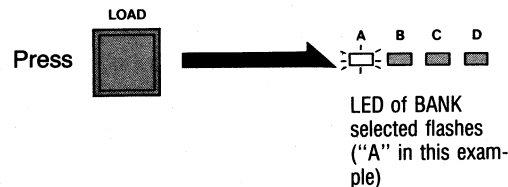
- ① Connect the MEX-8000 to another MIDI device, making sure that DEVICE switches and MIDI CH. switches are positioned properly.

★ When performing a LOAD operation into a DW-8000, EX-8000, DW-6000 or DVP-1, MIDI ENABLE parameters must be set to "ALL", and WRITE switches must be set to "ENABLE". Failure to set these correctly will result in an ERROR.


- ② Select the BANK from which you wish to LOAD data with the BANK key.




- ③ Press the LOAD key. At this time LOAD operation begins, and the LED of the BANK selected flashes.




- ④ If the LOAD procedure was performed correctly, the GOOD indicator lights for approximately 1 second.

GOOD  Lights for approximately 1 second

If the LOAD procedure was not performed correctly, the ERROR Indicator lights.

ERROR  Lights in case of an ERROR

After an ERROR, press the CANCEL key, resetting the unit, and perform the LOAD procedure again after checking connections, switch settings etc.

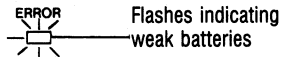
Press  after an ERROR

**NOTES:**

- ★ Do not touch the connected MIDI unit's keyboard, joystick or Program Selection keys during the LOAD operation, as this may cause a malfunction.
- ★ When Loading into a POLY-800II, POLY-800 + MDK or EX-800, sequencer data is loaded along with sound data. These cannot be loaded separately. Also, if the loaded data is output (performed) on the receiving MIDI device without changing program selection, the timbre is output exactly as it was when Loaded. Changing the program selection parameters will change the timbre.

# BATTERY CHECK

- When batteries no longer supply sufficient power for proper operation, the ERROR Indicator flashes and normal operation stops.



Batteries should be replaced in this case, or the AC adaptor may be used.

(Be sure that power is turned OFF when replacing batteries or connecting AC adaptor.)

- **BATTERY LIFE** [When using National Hi-Top/sum-3 (DG) batteries] Continuous operation = 8 hrs.  
Also, a lithium battery is built-in for memory backup, so that memory is not lost when batteries are replaced.

# SPECIFICATION AND OPTIONS

## MEMORY

: 256 Program settings (64 × 4 BANKS)

## CONTROL Keys FUNCTION Switches INDICATORS

: BANK, SAVE, LOAD, CANCEL  
: DEVICE, MIDI CH., PROTECT  
: BANK (A, B, C, D) GOOD, ERROR

## LINE SELECT Switch

: MEMORY/THRU (Functions as power ON/OFF)

## MIDI Connectors

: IN/OUT (Data Dump)  
IN/OUT (THRU)

## POWER

: DC 9V [AC Adaptor, or 6 AA (sum-3) batteries]

## WEIGHT

: 1.1 kg.

## DIMENSIONS

: 232 (W) × 36 (H) × 131 (D)mm

## ACCESSORIES

: 6 AA batteries, SYNC/MIDI cables (0.5m) × 2

## OPTIONS

: AC Adapter  
MIDI Cable (7m, 10m, 12m)

★ Specifications subject to change without notice.