

Owner's Manual

Model

8200

MIDI INTERFACE UNIT

SERVICE DEPT.

FOSTEX CORPORATION

FOSTEX®

INTRODUCTION

We thank you for purchasing the Fostex Model 8200 MIDI Interface Unit. Model 8200 is a unit designed to be installed in the Fostex Model 812 12 channel mixer for mute controlling it by MIDI messages.

We suggest you read this manual for correct operation and thus many years of trouble free service from it.

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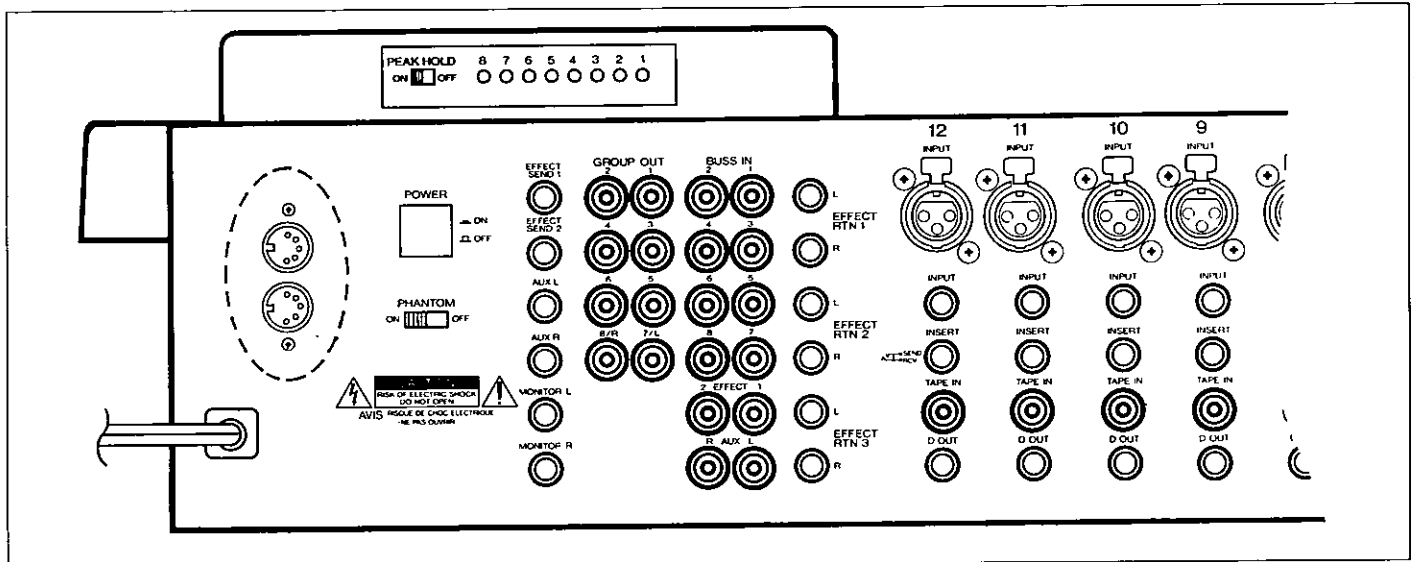
1. MIDI connectors

(1) MIDI IN connector

MIDI OUT of the equipment which will control this mixer is connected here.

(2) MIDI OUT connector

MIDI IN of the equipment which will control this mixer is connected here.



2. How to use the MIDI commands

● Outstanding features

- ▶ Mixer muting can be automatically controlled by using the standard MIDI messages.
- ▶ Either the note message or control change message can be selected for the control command.
- ▶ It can be used as a normal mixer if nothing is connected to the MIDI IN/OUT jacks.

● Setting the MIDI channel

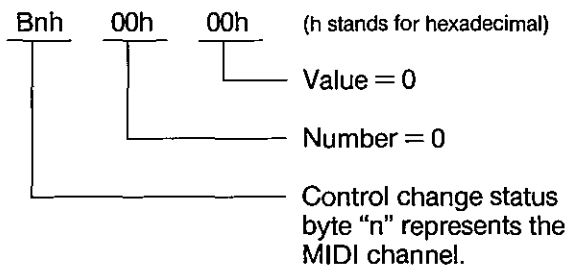
MIDI channel is setup by switching on power while pressing the mute switch. If MIDI channel is to be set '5', the power is switched on while pressing the mixer channel 5 mute switch (mute switch can be released immediately after switch on). If no mute switch is pressed when switching on power, it will be set to 1.

Please note that it will be OMNI-OFF (the condition whereby it will accept only MIDI messages of the channel which is same to what has been setup) at switch on of power.

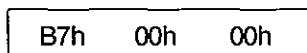
● Selecting the mute control commands

Either the note message or the control change message can be selected for mute control. When the number '0' control change is transmitted, the command is selected in compliance to the value.

If control is to be by the note message, a control change message is transmitted as follows:



For example, if the MIDI channel is set to 7—

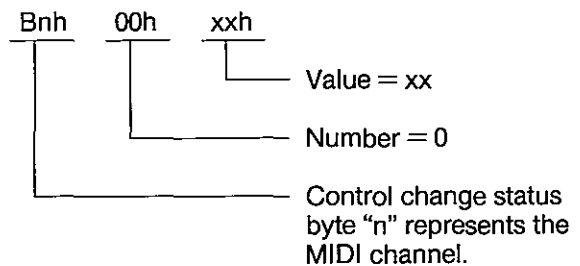


must be transmitted (Subsequent explanations will be on MIDI channel 7).

As this unit will be in the controlling state by the note message at switch on of power, this message necessarily need not be transmitted if note only is to be used.

If control by the control change message is selected, from which control number it will be used can be selected.

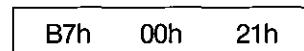
The provision here, however, is that the value is limited to the range of 01h~6Ch. If the value is outside this range, it will be ignored. For setup, the following control change message must be transmitted.



The relationship between the mixer channel when value xx is setup and the control change number for mute control is as follows:

Control number	Mixer channel
xx	1
xx + 1	2
↓	↓
↓	↓
xx + 11	12

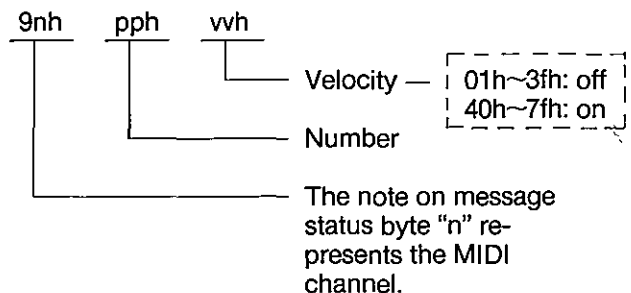
For example, if control number 21h is to comply with channel 1



is transmitted to this unit.

● Note on/note off message

When controlling by note on/note off messages, note number of the note on message is made to comply with the mute channel and on or off is made to comply with velocity. Although the note off message has no meaning in this unit, it is used in the form of note on/note off as they must always be used in pairs.



Number: Make number 3Ch (60 in decimal) comply with the mixer mute channel 1.

Note number	Mixer channel
3Ch	1
3Dh	2
↓	↓
↓	↓
47h	12

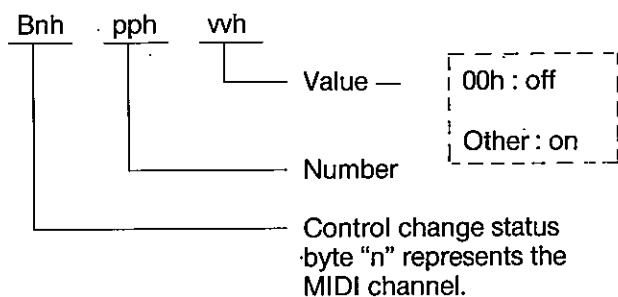
Velocity: Set 01h~3Fh to off and 40h~7Fh to on. In the MIDI sequencer, etc. to be controlled, any value within this range can be used. However, 00h is a note off message and thus cannot be used. Also, when the mute switch is pressed and output from this unit, 7Fh will be on and 01h will be off. For example, when the channel 4 mute is to be switched on —

97h	3Fh	7Fh	87h	3Fh	40h
-----	-----	-----	-----	-----	-----

should be transmitted to this unit.

• Control change message

When controlling by the control change message, make the control number comply with the channel (mentioned above) and the value to either on or off. It will be on at other than 0 and off at 0.



For example, when the control change number 21h comply with channel 1, to switch on channel 4 —

B7h	24h	7Fh
-----	-----	-----

must be transmitted to this unit.

• Other MIDI messages

- ▶ Local off: When set to local off, mute will not switch on or off even though the mute switch is pressed. But MIDI message will be output.
- ▶ OMNI on/off will be accepted.

Other items on MIDI not mentioned in this manual comply with the MIDI 1.0 standard.

3. Application examples

• Automatic control using the note message

- (1) The MIDI channel and various settings of the MIDI sequencer which is to control this unit are setup (assuming MIDI is set in channel 7).
- (2) Mute switch at start of the music is inserted at top of the first bar of the sequencer. When channels 1~4 are mute on and others are off, it will be as follows:

Measures	Velocity			
	Pitch	On	Off	Duration
1.1.000	♪ C3	127	164	1.000
	♪ C#3	127	164	1.000
	♪ D3	127	164	1.000
	♪ D#3	127	164	1.000
	♪ E3	1	164	1.000
	♪ F3	1	164	1.000
	♪ F#3	1	164	1.000
	♪ G3	1	164	1.000
	♪ G#3	1	164	1.000
	♪ A3	1	164	1.000
	♪ A#3	1	164	1.000
	♪ B3	1	164	1.000

Normally, ♪ C3 = 3Ch (Decimal 60).

Measures is a bar of MIDI.
Duration is the time from note on to note off.

- (3) Sequencer track for this unit is set for overdubbing and started. Switch on and off the mute switch at the desired points and record this in the sequencer.
- (4) Instead of recording in real time as shown above, it can be directly input in the sequencer.

● Automatic control using control change

- (1) The MIDI channel and various settings of the MIDI sequencer which is to control this unit are setup (assuming MIDI is set in channel 7).
- (2) The command for selecting the control change message and mute switch at start of the music is inserted at top of the first bar of the sequencer. When channels 6~12 are mute on and others are off, if control number 01h is to be allotted, it will be as follows:

Measures	Number	Value
1.1.000	▲#0	1
	▲#1	0
	▲#2	0
	▲#3	0
	▲#4	0
	▲#5	0
	▲#6	127
	▲#7	127
	▲#8	127
	▲#9	127
	▲#10	127
	▲#11	127
	▲#12	127

- (3) After this, data is made in the same way as for controlling by the note message.

PRECAUTIONS IN SAFETY

- ▶ Follow the precautions in the Model 812 Owners Manual.

[MIDI Interface]
 Model 8200 MIDI Implementation Chart

Date: Jan. 10, 1990
 Version: 1.0

Function	Transmitted	Recognized	Remarks
Basic Channel Default Changed	1 1 - 12	1 1 - 12	
Mode Default Messages Altered	x x *****	Mode 3 x x	
Note Number : True voice	0 - 127 *****	0 - 127 64 - 76	
Velocity Note ON Note OFF	v = 1, 127 v = 64	v = 1 - 127 v = 0 - 127	
After Touch Key's Ch's	x x	x x	
Pitch Bend	x	x	
Control Change	x	x	
Prog Change : True #	x *****	x	
System Exclusive	x	x	
: Song Pos Common : Song Sel : Tune	x x x	x x x	
System : Clock Real Time : Commands	x x	x x	
Aux : Local ON/OFF : All Notes OFF Mes — : Active Sense sages : Reset	x x x x	○ x x x	
Notes			

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

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

○ : Yes
 x : No

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