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Instructions Manual

**STUDIO 900** 

**STUDIO 1100** 

**MIDI PEDALBOARD MP-1** 

**ITALIANO** 

Benvenuti nel mondo delle MASTERKEYBOARD FATAR. La MASTERKEYBOARD STUDIO 1100 è un MIDI CONTROLLER completo, versatile e di veloce utilizzo; ottimo sia per uso live che per lavoro di studio.



# CARATTERISTICHE

- La MASTERKEYBOARD STUDIO 1100 si presenta con
- Tastiera dinamica a 88 tasti pesati
- After touch
- 32 presets
- 10 switches di cui 4 per abilitare le zone di tastiera,
- 2 per cambiare banco di presets e 4 per cambiare preset
- 2 sliders di cui uno per il main volume e l'altro assegnabile
- 1 display a 3 cifre
- 2 wheels per pitch e modulation
- 2 midi out paralleli
- 1 midi in
- 1 ingresso jack per pedale sustain
- 1 ingresso jack per pedale volume
- 1 interruttore di alimentazione
- 1 ingresso di alimentazione DC
- 11 dei tasti neri della Master sono usati per funzioni speciali



1) Collegare l'adattatore di tensione alla presa elettrica di rete (verificando che la tensione dell'adattatore corrisponda alla tensione di linea). Collegare il cavo di uscita dell'adattore all'ingresso di alimentazione della MASTERKEYBOARD (STUDIO 1100 accetta come alimentazione 9V DC con polarità positiva (+) al centro e necessita di una corrente minima di 200 mA).

2) Collegare il/i cavi midi al vostro o ai vostri expanders o altri dispositivi MIDI.

3) Attivare la MASTERKEYBOARD STUDIO 1100 premendo il pulsante POWER e si predisporrà nel PRESET <11>.

4) Se si ha la necessità di controllare il sustain e il volume, collegare agli appositi jack, per il sustain un pedale con il contatto normalmente aperto (es.: VFP1/10), per il volume un pedale di controllo lineare con jack stereo (es.: VP26).

#### PROGRAMMAZIONE DELLA STUDIO 1100



#### PER CAMBIARE PRESET

Con i due tastini con frecce sotto il display si incrementa o si decrementa il banco di presets (STUDIO 1100 ha la possibilità di storare 32 presets suddivisi in 8 banchi da 4), quindi una volta fissato il banco desiderato, premere uno dei 4 switch sotto la scritta <PRESET>. Se nel display leggiamo 11 significa che siamo nel preset 1 del banco 1.

#### LE ZONE

All'interno di ogni singolo preset (o patch) è possibile creare da 1 a 4 zone di tastiera per splits o sovrapposizioni. Ogni zona può essere programmata per avere tutti i controlli MIDI di cui l'utente avrà bisogno.

Per abilitare o disabilitare ogni zona premere lo switch contrassegnato da 1 a 4 sotto la scritta <ZONES>.

Piano (Zone 1, channel 5)



#### PROGRAMMAZIONE DI UNA ZONA

Le istruzioni che seguono riguardano la procedura di edit di una zona, con tutte le possibilità software che possiede la macchina, ricordando che all'interno di un preset è possibile combinare fino a 4 zone. È chiaro poi che l'utente programmerà la STUDIO 1100 secondo le proprie esigenze.

#### KEY RANGE O ESTENSIONE DI ZONA

Tenere premuto lo switch della zona che si vuole creare - premere il tastino funzione n. 1 (in alto a sinistra) - rilasciare entrambi gli switches - ora il led relativo alla zona lampeggia, e il display visualizza il numero di tasto più grave - a questo punto ci sono 2 modi per definire il tasto di inizio e il tasto di fine zona = posso suonare direttamente sulla tastiera la nota più grave e la nota più acuta ed automaticamente il key range sarà settato e la modalità <EDIT> terminerà non lampeggiano più il led della zona interessata; oppure tramite lo slider <CSL/DATA> fisserò il numero di tasto più grave e premendo una seconda volta lo switch funzione n. 1 il display visualizza il tasto più acuto ed agendo sullo slider <CSL/DATA> fisserò il numero del tasto più acuto; per uscire dall'ambiente <EDIT> è sufficiente premere lo switch della zona.

#### RCV CHAN - CANALE MIDI IN RICEZIONE

STUDIO 2001 è provvista di un MIDI INPUT, quindi accetterà dati in arrivo da dispositivi esterni e verrano riportati in uscita sulle MIDI OUT (MIDI MERGE). Per settare il canale MIDI in ricezione tenere premuto lo switch della zona, premere poi lo switch funzione n. 1 per tre volte e il display indicherà il numero di canale in ricezione = muovendo lo slider <CSI/DATA> si deciderà il numero desiderato = se si visualizza un trattino orizzontale <-> la STUDIO 1100 funzionerà da MIDI MERGE bypassando qualsiasi informazione di qualsiasi canale MIDI, se ad esempio visualizzo il numero 1 tutti i dati saranno bypassati ma i messaggi di program change del canale MIDI 1 provenienti da dispositivi esterni saranno interpretati come program change che cambieranno i preset della STUDIO 1100. Premere lo switch della zona per uscire dall'ambiente <EDIT>.

#### PROGRAM CHANGE

Per assegnare un program change relativo alla zona desiderata, tenere premuto lo switch della zona e premere lo switch funzione n. 2, ora il led della zona lampeggia e muovendo lo slider <CSL/DATA> visualizzo sul display il numero di program change (STUDIO 1100 accetta numeri da 1 a 128). Se non si desidera program change si deve selezionare il trattino orizzontale <->; premere di nuovo lo switch della zona per uscire da <EDIT>. Esiste un'altra modalità per memorizzare velocemente il parametro di program change:

tenere premuto lo switch della zona interessata e digitare tramite i 10 tasti neri della tastiera etichettati da 0 a 9 il numero desiderato, quindi il nuovo dato sarà ora memorizzato nella patch e sarà trasmesso quando lo switch della zona verrà rilasciato.

#### BANK SELECT

Per far assumere un comando di BANK CHANGE tenere premuto lo switch della zona, premere il tasto nero etichettato <BANK> e digitare il numero di banco (0-225) tramite i tasti etichettati 0-9.Il nuovo dato sarà trasmesso quando lo switch della zona verrà rilasciato.

## CHANNEL - CANAL MIDI

Per settare il canale MIDI della zona, tenere premuto lo switch della zona e premere lo switch funzione n. 2 per 2 volte; rilasciare entrambi gli switches; ora il led della zona lampeggia.Il display indica il numero di canale che sarà scelto muovendo lo slider <CSL/DATA>. Premere lo switch della zona per uscire da <EDIT>.

## WHEELS - RUOTE DI MODULAZIONE

La MASTERKEYBOARD STUDIO 1100 è provvista di 2 wheels di cui una è dedicata al Pitch Bend con la molla di ritorno centrale e l'altra è dedicata alla modulation. Per ognuna delle 4 zone creabili sulla tastiera c'è la possibilità di abilitare od escludere entrambe le wheels.

Tenere premuto lo switch della zona interessata e premere lo switch funzione n. 2 per 3 volte; rilasciare entrambi gli switches; ora il led della zona lampeggia. Il display ora visualizza <ON> o <OFF>. Usare lo slider <CSL/DATA> per modificare il settaggio. Premere lo switch della zona per uscire da <EDIT>. N.B.: per ogni operazione di EDIT la procedura è sempre identica cioè si preme lo switch della zona interessata e poi lo switch di funzione voluto, premendolo 1 volta se è indicato sulla prima riga di pagine software e così via fino a 3 volte. Premere lo switch della zona per uscire da <EDIT>.

Ora senza ripetere le operazioni manuali si chiariranno le altre pagine di EDIT per il PRESET.

## VOLUME

Si imposta il volume iniziale di una zona settandolo con lo slider <CSL/DATA>, (i valori sono compresi tra 0 e 127); se non si desidera una inizializzazione del volume, ma si vuol lasciare inalterato il valore del preset precedente, si deve impostare il trattino orizzontale <->.

## ► VELOCITY - DINAMICA

Per assegnare un valore di risposta della dinamica della tastiera differente dal valore di default (3), agire con lo slider <CSL/DATA> e impostare il valore voluto (la gamma di curve disponibile va da -5 a +5). Se ad esempio si vuole realizzare un CROSSFADE tra 2 suoni comandato dalla dinamica di tocco, impostare in una zona un valore positivo e nell'altra un valore negativo.



#### AFTER TOUCH

Playing Force

Come per le wheels, si ha la possibilità di escludere o abilitare l'intervento dell'AFTER TOUCH per ogni singola zona. Muovendo lo slider <CSL/DATA>, decidere l'intervento <ON o OFF> dell'After Touch.

#### TRANSPOSE

Per effettuare una trasposizione è sufficiente agire sullo slider <CSL/DATA> per modificar il valore di default (0). Le variazioni possibili vanno da -24 a +24 cioè 24 semitoni verso il basso e 24 semitoni verso l'alto (+/- 2 ottave).

# CSL - CURSORE CSL/DATA

Lo slider <CSL/DATA> è usato in fase di programmazione per editare i valori voluti, ma in ambiente perform può agire sullo stesso slider mentre si è in <EDIT>; se non si vuole assegnare nessun controllo allo slider, selezionare il trattino orizzontale < - >.

## PEDAL

Nella terza funzione dello switch function n. 4 in realtà ci sono 2 possibili programmazioni: la prima si esegue nel seguente modo = premendo per 3 volte lo switch function n. 4 si può programmare il controllo di pedale lineare che per default assume il controllo #7 cioè volume, ma agendo sullo slider <CSL/DATA> si può settare un qualsiasi controllo compreso tra 0 e 127; naturalmente anche in modo differenziato per ogni singola zona. Se si desidera lasciare il valore di default, settare il trattino orizzontale <->. Il valore di volume variato con il pedale non è assunto direttamente ma va ad incrementare o decrementare il valore impostato nella inizializzazione di volume della zona.

La seconda programmazione riguarda il pedale sustain = tenere premuto il pedale sustain, ora premere per 3 volte lo switch function n. 4, rilasciare il pedale sustain, ora il display visualizza <ON> o <OFF>, se si desidera disabilittare il pedale sustain per quella determinata zona settare <OFF>.

## *MOVIMENTI ALL'INTERNO DELL'AMBIENTE <EDIT>*

Quando si è in <EDIT>, ci si può muovere per editare le differenti zone e le diverse funzioni senza uscire e velocizzare la programmazione. Per cambiare zona basta premere gli switches con frecce e ci si sposta tra le 4 zone. Per cambiare e visualizzare i differenti parametri di EDIT basta premere i diversi switches di funzione.

## SAVE/LOAD DATA

C'è la possibilità di salvare e caricare tutto il contenuto della memoria dei 32 preset

tramite messaggio di sistema esclusivo per effettuare un MIDI DATA DUMP.

## lstruzioni per il salvataggio

Predisporre l'unità destinata a ricevere e memorizzare il messaggio di SYS-EX (computer o altro dispositivo con questa possibilità); tenere premuto uno qualsiasi degli switches delle zone; premere lo switch con la freccia destra sopra la scritta <SAVE>; rilasciare entrambi gli switches; ora il display visualizza la scritta 'S' con una sequenza di numeri da 1 a 8 che rappresentano gli 8 banchi di presets ed in pochi secondi il DUMP sarà eseguito; ora si dovrà memorizzare il file nel dispositivo esterno.

## Istruzioni per il carico dati

Tenere premuto uno qualsiasi degli switches delle zone; premere lo switch con la freccia sinistra sopra la scritta <LOAD>; rilasciare entrambi gli switches; ora il display visualizza la scritta 'L' e la STUDIO 1100 rimane in attesa di dati provenienti dal dispositivo esterno.

Predisporre l'unità destinata a trasmettere il messaggio di SYS-EX; avviare la trasmissione dati; ora la STUDIO 1100 memorizzerà i 32 presets salvati su dispositivo esterno; dopo aver terminato il carico dati si predisporrà sull'ultimo preset selezionato.

È chiaro che lo scambio dati avverrà via MIDI tra inputs e outputs.

# RESET GENERALE - PRESET INITIALIZATION

Se si presenta la necessità di effettuare un reset (o per errori numerosi di programmazione o per in blocco software), operare come segue = spegnere la MASTERKEYBOARD, tenere premuti contemporaneamente i due tastini con frecce (sopra le scritte LOAD/SAVE) ed accendere la STUDIO 1100 tenendoli premuti ancora per 2/3 secondi.

Ora segue una mappa indicativa della programmazione dei 32 presets dopo aver effettuato il reset generale che corrisponde alla programmazione di fabbrica.

Preset 11 = Zona 1 ON - Zona 2 OFF - Zona 3 OFF - Zona 4 OFF

Zona 1 = Program Change 1 Estensione 88 Tasti

Zona 2 = Program Change 2	2 Estensione 88 Tasti	4	Foot controller
Zona 3 = Program Change 3	B Estensione 88 Tasti	5	Portamento rate
Zona $4 =$ Program Change 4	Estensione 88 Tasti	6	Data entry MSB
0 0		1	Volume
Dresst 19 Zone 1 ON Zon	a 9 ON Jana 9 ON Jana 4 ON	8	Balance
Preset 12 = Zona 1 ON - Zon	a 2 ON - Zona 3 ON - Zona 4 ON	9	Undefined
Zona 1 = Program Change 1	Estensione 88 Tasti	10 11	Pan Expression
Zona 2 = Program Change 2	2 Estensione 88 Tasti	11 19 15	Undefined
$Z_{0}$ and $3 = Program Change 3$	8 Estensione 88 Tasti	12-13 16	Can'l Durnosa #1
7  on  4 = Program Change	Fetonsiono 88 Tasti	10 17	Con'1 Durpose #2
		17	Con'1 Purpose #2
Preset 13 = Zona 1 ON - Zon	a 2 ON - Zona 3 ON - Zona 4 ON	10	Gen i i upose $\pi 3$
Zona 1 – Program Change 1	Split 1		
Zona 9 Drogram Change 9	S = S = S = S = S = S = S = S = S = S =	NUMERO DI CONTROLLO	FUNZIONI DI CONTROLLO
z = Program Change z	z = spin z	19	Gen'1 Purpose #4
Zona 3 = Program Change 3	S Split 3	20-31	Undefined
Zona 4 = Program Change 4	4 Split 4	32	Bank
		33-63	Least significant byte for values 0 to 31
Preset 14 = Zona 1 ON - Zon	a 2 ON - Zona 3 OFF - Zona 4 OFF	64	Sustain (Damper)
		65	Portamento ON/OFF
Zona 1 = Program Change 1	Estensione 88 Tasti	66	Sostenuto
Zona 2 = Program Change 2	2 Estensione 88 Tasti	67	Soft pedal
Zona 3 = Program Change 3	B Estensione 88 Tasti	08 60	Undenned Hold 9
7  on  1 - Program Change  1	Fstansiona 88 Tasti	09 70-70	noia 2 Undefined
Zona 4 – Trogram Change 4		80	Gen'1 Purnose #1
I presets dal n. 21 al 84 sono	tutti identici al preset 11.	81	Gen'l Purpose #2
	L.	82	Gen'1 Purpose #3
MEMORIZZAZIONE DELL	F ZONE ATTIVE AL RICHIAMO DEL PRESET	83	Gen'1 Purpose #4
Abilitar la zona interessata:	antenta in FDIT: usaire da FDIT:	84-91	Undefined
Admaie le zone interessate,	enuale in <ed11>, uscile ua <ed11>.</ed11></ed11>	92	Tremolo depth
		93	Chorus depth
LISTA DET CONTROLLT M		94 05	Detune Dhaan danth
assegnabili allo Slider <csl da<="" td=""><td>TA&gt; e al pedale lineare.</td><td>95</td><td>Pliaser depui Deta increment</td></csl>	TA> e al pedale lineare.	95	Pliaser depui Deta increment
		90 97	Data increment Data decrement
		98-121	Undefined
NUMERO DI CONTROLLO	FUNZIONI DI CONTROLLO	122	Local control ON/OFF
0		123	All notes OFF
U	Bank	124	OMNI OFF
1	Modulation	125	OMNI ON
2	Breath controller	126	Mono ON - Poly OFF
3	Undennea	127	Poly ON - Mono OFF



**STUDIO 1100** 

MIDI PEDALBOARD MP-1

MANIFACTURED BY FATAR WRITTEN BY: J. CORCKY COHAN MUSIC INDUSTRIES

ENGLISH

#### DUICK REFERENCE

For basic operation please follow the guidelines below. The STUDIO 1100 includes four demonstration presets which may be used after the instrument is installed into your MIDI system.

1) Connect voltage adapter into a power outlet (make sure voltage specification on power adapter matches your line voltage). Connect adapter cable to STUDIO 1100 power jack.

2) Connect MIDI cables before switching on any MIDI devices. To use the demonstration presets, connect a sound module to either of the two MIDI outputs. The sound module must be multi-timbral and capable of responding to MIDI data on channels one through four.

4) Apply power to the Studio 1100, then apply power to all other MIDI devices in the system.

To change STUDIO 1100 presets, make sure that the unit is in Perform Mode (there should be no blinking lights on the front panel). To change the preset, press any of the four PRESET switches. There are 8 banks of four presets; to change to a different bank, press the left or right arrow switches until the desired bank number is displayed.

The Master Volume Slider will adjust the volume on all active zones. Unless programmed otherwise, the optional pedal controller will also adjust the master volume. The left and right wheels will control pitch and modulation, unless they have been disabled by the active Studio-1100 preset.

MIDI channels may be switched on and off using the four ZONE switches.

To edit a preset, enter Edit Mode by pressing and holding one of the four ZONE switches. Press the FUNCTION switch which is labeled with the desired parameter. Release both switches (the ZONE switch will blink). Pressing any FUNCTION switch repeatedly will cycle through the three parameters available on the switch. Change the current value with the CSL/DATA slider. Press the blinking ZONE switch to exit Edit Mode.

## DEMONSTRATION PRESETS

The STUDIO 1100 comes from the factory with four demonstration presets in locations 11 through 14. The demonstration presets are intended for use with a multitimbral sound module. The module must be able to respond to MIDI data on channels one through four.

The demonstration presets illustrate several of the most useful STUDIO 1100 functions, and are summarized below. When the demonstration presets are selected with the PRESET switches, the sound modules should change programs automatically. The actual program number on each sound module may not match the number of the preset selected on the STUDIO 1100. These program numbers may be easily changed; see the operation guide sections on Edit Mode and the PROGRAM function.

DEMONSTRATION PRESET 11: This is a very basic preset with one zone (MIDI channel 1) active across the entire keyboard. The Master Volume control may be used to adjust the level of the sound.

DEMONSTRATION PRESET 12: MIDI output channels one through four are active and receiving note information from the keyboard. The ZONE switches may be used to turn off selected channels to hear different combinations of the sounds. The Master Volume slider on the front panel may be used to adjust the volume level of all channels simultaneously.

DEMONSTRATION PRESET 13: All four MIDI channels are active, but the keyboard is divided into four zones, with a different channel active in each zone (refer to the ZONE function for more information).

DEMONSTRATION PRESET 14: This preset demonstrates a velocity cross-fade. For notes played softly on the keyboard, only MIDI channel 1 should play at maximum volume. As the notes are struck more forcefully, this sound will become softer, and the sound on MIDI channel 2 will become louder.



# STUDIO-1100 SPECIFICATIONS

- Full-size 88-key weighted action with velocity sensitivity and aftertouch.
- Three digit LED display for preset number and parameter editing.
- Thirty-two internal presets; internal programs may be saved and loaded via MIDI system exclusive.
- MIDI input is merged into the MIDI output.
- Two parallel MIDI output jacks.
- Full-size Pitch and Modulation wheels. Wheels may be enabled and disabled for each keyboard zone.
- Programmable control slider. The slider can be programmed to issued and MIDI control change message.
- Input for optional pedal controller to control volume or other functions.
- Four programmable zones may be defined over any region of the keyboard.
- Presets may be changed with an external MIDI device.
- Independent MIDI program change messages issued by each zone.
- Zones programmable to transmit on any MIDI channel.
- Volume initialization messages for each zone.
- Velocity sensitivity control for each zone with positive and negative response.
- Aftertouch may be enabled or disabled for each zone under preset control.
- Programmable transpose for each keyboard zone.
- Power Requirements: 9VDC at 200mA (center contact positive).



The STUDIO 1100 serves as the master controller for any group of MIDI instruments and accessories. A MIDI input is provided which allows flexibility in multi-keyboard setups. Data from this input is merged into the two MIDI outputs.

Four programmable keyboard zones provided fast and easy control over essential functions. A large three digit LED displays the current preset as well as parameter data. All programmable parameters may be accessed quickly via the four ZONE switches and the four FUNCTION switches.

The STUDIO 1100 will command up to sixteen different MIDI channels, with keyboard control of four different channels simultaneously. The two parallel MIDI outputs are a convenient way to hook up several MIDI devices without the use of MIDI splitters or routers.

## BACK PANEL CONNECTIONS

MIDI INPUT: Messages received by this input are merged with the data from the keyboard zones and sent to the two parallel MIDI outputs. These messages may include any of the following types:

Notes	Program Change	Pitch	All Controllers
Mono Pressure	Poly Pressure	Sys-ex (foreign)	Midi Time Code
Song Position	Song Select	Tune Request	MIDI Clock
Start	Continue	Stop	System Reset

The thirty-two Studio 1100 internal presets may be loaded from an external computer or storage device. The output of the storage device must be connected to the MIDI input of the Studio 1100. If the Studio 1100 receives the correct system-exclusive identifier, the preset data will be loaded into memory. If the identifier does not match, the system-exclusive data will be passed to the Studio 1100 outputs.

MIDI OUTPUTS: Connect sound modules and other MIDI devices to either of the two parallel MIDI outputs (the data is identical on both outputs). To connect more than two devices, use the MIDI through on each device to connect to the MIDI input of another device. The Studio 1100 will access up to sixteen separate MIDI channels under preset control. Sound modules with the same channel settings will

The thirty-two internal presets may be saved to an external computer or storage device. The MIDI output of the Studio 1100 must be connected to the MIDI input of the storage device. Consult the section on Program Save and Load for additional information.

CONTROL VOLTAGE INPUTS: One input is provided for an external analog controller. An optional control pedal is available from your dealer, or any DC control voltage source may be used. The input voltage range is 0 to 5 volts DC, which corresponds to a MIDI control range of 0 to 7F hex. The control pedal is most commonly used to control master volume, but it may be programmed to issue any MIDI control change message.

#### MIDI SYSTEM CONFIGURATION



The illustration shows a typical MIDI setup for live performance. The Studio 1100 is driving three sound modules. In this example, Sound Module 1 is multi-timbral,

and will respond to MIDI messages on channels one through 8.

Sound Module 2 is two-part multi-timbral, and is set to respond to MIDI channels nine and ten. Sound module 3 is not multi-timbral, and is programmed to receive on MIDI channel 11. With this setup, every channel of the sound modules may be accessed independently by the Studio 1100 (there are no overlapping MIDI channels).

#### ZONES

The Studio 1100 is designed with four independent keyboard zones. Each zone is intended to control a different sound by transmitting messages on a unique MIDI channel. Each zone may be active over the entire keyboard, or limited to any desired set of (adjacent) keys. The diagram below shows an example of how different sounds in one preset might be "mapped" across the keyboard.



Notice that the relationship between zone number and MIDI channel number is arbitrary; the channel associated with each zone may be different in each Studio 1100 preset. To simplify the creation of presets it may be helpful to use consistent MIDI channels numbers for the zones all presets.





The Studio 1100 has two modes of operation, Perform Mode and Edit Mode. Some of the switches and sliders have different functions depending on the mode (refer to the front panel illustration).

#### PERFORM MODE

During live performance or recording sessions, the Studio 1100 will usually be in Perform Mode. In this mode, the four upper left switches (PRESET / FUNCTION) are used to select one of the thirty two presets. Press any of these switches to change the current preset. There are 8 banks of four presets; to change to a different bank, press the left or right arrow switches (PRESET) until the desired bank number is displayed.

The four ZONE switches are used to enable or disable certain sounds. For example, a piano sound may be active on Zone 1 during part of a musical performance. At some point during the song, the Piano sound is switched off, and a solo instrument sound is switched on using Zone switch 2. The same result could be achieved by switching to a different Studio 1100 preset, but it is more efficient to use the zone switches for basic sound switching.

The left control slider on the front panel acts as a general purpose controller when the unit is in Perform Mode. The MIDI controller number for the slider is stored as part of the preset data.

#### **EDIT MODE**

To create or change a Studio 1100 preset, it is necessary to enter Edit Mode. Most of the parameters in the preset are associated with one of the four keyboard zones. The procedure for changing any of these zone parameters is as follows:

- 1) Enter Edit Mode by pressing and holding one of the four ZONE switches.
- 2) Press the FUNCTION switch which is labeled with the desired parameter.
- 3) Release both switches. The ZONE switch will blink to indicate that its parameters are editable. Pressing any FUNCTION switch repeatedly will cycle through the three parameters available on the switch.
- 4)Change the current value with the CSL/DATA slider.
- 5) Press the blinking ZONE switch to exit Edit Mode.

There is no Store function on the Studio 1100; any parameter that was changed in Edit Mode is automatically updated in internal memory. Note that the Zone switches must be in the desired state before entering edit mode. These are the settings that will be stored into the preset upon returning to Perform Mode. To change the stored Zone switch settings for a preset, set the Zones as desired, and enter Edit Mode using any combination of a Zone switch and a Function switch. Press the blinking switch to exit Edit Mode, and the new Zone settings will be saved.

#### **ZONE FUNCTIONS**

Each keyboard zone on the Studio 1100 has several parameters which must be set to access the desired sound from the sound module. The following sections describe the purpose of each zone function.

#### LOW KEY; HIGH KEY

These functions are used to set the range of active keys for the zone. To set the lowest active key, press and hold the desired ZONE switch. Press the FUNCTION 1 switch, then release both switches. The Zone switch will blink, and the LED display indicates the lowest active key. Use the DATA slider to set a new value. To set the highest active key, press FUNCTION switch 1 again. The LED display now will indicate the highest active key which may be changed with the DATA slider. Press the blinking switch to exit the edit mode.

For convenience, an alternate programming method is available which is faster than setting the key limits with the slider. First press and hold the ZONE switch to be edited. Press the FUNCTION 1 switch. Release both switches. The ZONE switch will now blink, and the LED will display the lowest active key. Play two keys on the keyboard (the order does not matter) to program the new low and high keys. The Edit mode will terminate automatically.

#### ► PROGRAM

The Program function is used to issue a MIDI program change command at the instant a Studio 1100 preset is selected. The Program number is set independently for each of the four keyboard zones. To set the MIDI program, press and hold the desired ZONE switch, and press the FUNCTION 2 switch. Release both switches. The ZONE switch will blink. The display will indicate the MIDI program (1 through 128). Change the setting with the DATA slider (the program change commands will be issued as the slider is moved). If no program change is desired select the dash (-). Press either blinking switch to exit the edit mode.

For convenience a special Program Change function is available from Perform Mode. Press and hold a ZONE switch, then simply enter the program number (1 through 128) on the labeled black keys (the digits will appear on the display as they are entered). When the ZONE switch is released, the entered program number will be issued on the channel corresponding to the zone.

The current MIDI Bank number may be selected in a similar fashion. Press and hold a ZONE switch, then momentarily press the black BANK key. Enter the desired bank on the numbered black keys. A Bank Select message will be issued when the ZONE switch is released.

## ► VOLUME

When multiple instruments are played simultaneously from the keyboard ("layered"), it is essential to balance the relative volumes of each sound. The VOLUME function specifies an initial volume level for each of the four keyboard zones.

To set the volume, press and hold the desired ZONE switch. Press the FUNCTION

3 switch, then release both switches. The ZONE switch will blink. Use the DATA slider to adjust the value as indicated on the LED display. If no initial volume message is desired, adjust the slider until a dash (-) appears on the display. Press the blinking switch to exit edit mode.

The overall volume level for all four zones as a group may be adjusted with the Master Volume slider. This slider is linked with the four initial volume settings for each zone, so that as the master volume is changed the relative volume among the four zones is maintained.

## TRANSPOSE

It is often desirable to shift the pitch of a sound my some interval up or down. This is especially useful in layered presets. To set the transpose interval, press and hold the desired ZONE switch, and press the FUNCTION 4 switch. Release both switches. The display will indicate the current value in semitones (the total transpose range is plus and minus two octaves). Adjust the value with the DATA slider. Press the blinking switch to exit edit mode.

## CHANNEL

Each keyboard zone can be programmed to transmit on any one of the sixteen MIDI channels. To set the channel, press and hold the desired ZONE switch, and press the FUNCTION 2 switch twice. Release both switches. The Zone switch will blink. The display will now indicate the MIDI CHANNEL for the zone, which may be changed with the slider. Press the blinking switch to exit the edit mode.

# **VELOCITY**

Most sound modules can produce a wide range of instrument sounds, and each sound requires an appropriate keyboard playing technique. The Velocity parameter of the Studio 1100 is used to adjust the keyboard dynamic sensitivity for the best response or "feel" for a given instrument sound. To adjust the keyboard velocity sensitivity, press and hold the desired ZONE switch. Press the FUNCTION 3 switch twice, then release both switches. The ZONE switch will blink. Use the DATA slider to adjust the velocity sensitivity from -5 through 5 (select 3 for normal positive velocity). Press the blinking switch to exit edit mode.

The chart below indicates the relationship between keyboard playing force and MIDI velocity values for various settings of the Velocity parameter.

The chart shows that for a setting of zero, any key that is depressed will issue a MIDI velocity value of 64, regardless of the actual key velocity. As the parameter is moved toward larger positive values, the range of MIDI velocities is increased. At a setting of positive 3, all MIDI output values may be transmitted depending on actual key velocity. At the maximum parameter value of positive 5, it is very easy to issue MIDI note-on velocities anywhere between 1 and 127.

The negative settings for this parameter may be used to create special "cross-fade" effects. Create a preset with two active zones, and set one zone for a negative velocity sensitivity. As the keys are played with increasing force, the sound from the first zone will decrease in intensity, while the sound from the second zone will increase (Demonstration Preset 4 is configured for a velocity cross-fade).



Playing Force

## CSL (CONTROL SLIDER)

The left slider on the Studio 1100 front panel can be programmed to issue any MIDI control change message. To set the controller number, press and hold a ZONE switch. Press the FUNCTION 4 switch twice, then release both switches. Use the DATA slider to set the controller number (if no controller is desired, adjust the slider to display a dash "-"). To exit edit mode, press the blinking switch.

## WHEELS

The two control wheels on the Studio-1100 are dedicated to PITCH and MOD functions. The wheels may be switched on and off for each zone (both will be

enabled or both will be disabled per zone). First press and hold the specific ZONE switch. Press the FUNCTION 2 switch three times, then release both switches. The LED display will indicate On or OFF. Use the DATA slider to change the setting. To exit the edit mode, press the blinking switch.

## AFTERTOUCH

The Studio 1100 will transmit aftertouch, which allows expressive musical control during the course of a note. The aftertouch value is determined by the total key pressure on all depressed keys ("channel pressure").

To enable or disable the aftertouch, press and hold a desired zone switch. Press the FUNCTION 3 switch three times. Adjust the data slider to change the display to ON or OFF. Press the blinking switch to exit edit mode.

Note: Not all sound modules respond to MIDI aftertouch (channel pressure) messages.

## **PEDAL**

The Studio 1100 is equipped with a voltage input for external analog controllers such as a voltage pedal (available from your FATAR dealer). The pedal input is set to adjust the master volume (same as front panel slider) but may be reprogrammed to issue any MIDI control change message.

To set the controller number, press and hold a ZONE switch. Press FUNCTION 4 switch 3 times. Release both switches. Use the DATA slider to set the controller number (if no controller is desired, adjust the slider to display a dash "-"). To exit edit mode, press the blinking ZONE switch. The default setting for this input is controller #7. This value is not issued directly as the input changes, but is scaled by the initial volume setting for the zone. All other controller numbers will cover the range from 0 to 127 as the pedal is moved.

The Sustain input on the Studio 1100 back panel may be used with an external footswitch. A MIDI control change message (#64) will be issued on each zone when the footswitch is actuated. To enable or disable the sustain messages, press and hold a desired zone switch. Press and hold the sustain pedal, and then press the Function 4 switch 3 times. Adjust the data slider to change the display to ON or OFF. Press the blinking zone switch to exit edit mode.

#### MISCELLANEOUS FUNCTIONS

All of the parameters discussed above were associated with the four keyboard zones. There are a few other functions which affect the operation of the instrument as a whole.

#### RECEIVE CHANNEL

The active Studio 1100 preset may be changed by an external MIDI device connected to the MIDI input on the back panel. The Studio 1100 will respond to program change commands on the channel specified with the RCV CHANNEL function.

To set the MIDI receive channel, press and hold any zone switch, then press the FUNCTION 1 switch three times. Release both switches. The display will indicate the current receive channel which may be changed with the slider. To disable receipt of program changes, move the slider to select the dash "-". Press the blinking FUNCTION switch to exit the edit mode.

#### PROGRAM SAVE AND LOAD

The Studio 1100 internal memory will retain data for thirty two presets. This data may be saved into an external computer or storage device using the SAVE function.

Connect one of the Studio 1100 MIDI outputs to the MIDI input of the storage device. Press and hold any zone switch. To send sys-ex memory data, press the SAVE switch. After sys-ex has been transmitted, the unit will return to perform mode.

To load the Studio 1100 memory from an external device, connect the MIDI output of the device to the MIDI input of the Studio 1100. Press and hold any zone switch. To enable receipt of sys- ex data, press the LOAD switch (the display will display "L"). The Studio 1100 will remain in this mode, waiting to receive sys-ex data.

Activate the transmission of sys-ex data on the storage device. After the systemexclusive data has been received, the Studio 1100 will return to Perform Mode. To



terminate load mode manually, press the blinking switch.

## PRESET INITIALIZATION

The Studio 1100 is shipped from the factory with four demonstration presets in locations 11 through 14. After these locations have been changed by the user, it is possible to restore the four demo presets as follows:

1.Switch off power to the Studio 1100.
 2.Press and hold the Load and Save switches.
 3.Switch on Studio 1100 power.

As a frame of reference, Note 60 is Middle C on the piano; a piano has a range of Note 21 (lowest A) to Note 108 (highest C); and a typical 5 - octave synthesizer has a range of Note 36 (lowest C) to 96 (highest C). Depending on the MIDI device connected to your MIDI PEDALBOARD, some octaves may not play, or may give unusual results.

#### CHANNEL ASSIGNMENT:

Depress and release the CH. MIDI footswitch and the current MIDI Channel will be diplayed by the Binary LEDS for 3 seconds. During this period of time, assign a new channel by playng the appropriate pedal according to the following chart:

PEDAL	MIDI CHANNEL	LED DISPLAY
C (low)	Channel 1	0000
C#	Channel 2	$\circ \circ \circ \bullet$
D	Channel 3	$\circ \circ \bullet \circ$
D#	Channel 4	$\circ \circ \bullet \bullet$
Ε	Channel 5	$\circ \bullet \circ \circ$
F	Channel 6	$\circ \bullet \circ \bullet$
F#	Channel 7	$\circ \bullet \bullet \circ$
G	Channel 8	$\circ \bullet \bullet \bullet$
G#	Channel 9	$\bullet$ 0 0 0
Α	Channel 10	$\bullet$ 0 0 $\bullet$
A#	Channel 11	$\bullet$ $\circ$ $\bullet$ $\circ$
В	Channel 12	$\bullet \ \circ \ \bullet \ \bullet$
C (hi)	no change	8 4 2 1

Upon new channel selection, the display immediately returns to the current OCTAVE setting. You will not see the new channel assignment displayed until the CH. MIDI footswhitch is depressed once more. Note also that, in this case, the sum of the numers indicated by the illuminated LEDs is allways one less than the actual MIDI Channel assigned. This is because in the digital MIDI code itself, what we think of as Channels 1 - 16 is represented by the numbers 0 - 15.

## *PROGRAM ASSIGNMENT:*

MIDI Program Change numbers from 00 - 99 (or 1 - 100, if your connected MIDI device starts counting at Program 1) may be sent in ascending or descending order on the currently selected MIDI Channel by depressing the appropriate PRESET button. At turn-on, your MIDI PEDALBOARD loads 00 (Program 1) into its buffer. By depressing PRESET first, 01 (Program 2) will be sent; depressing PRESET first sends 99 (Program 100). You may continue in either direction, and each depression of a PRESET button will increment or decrement the last number sent. Thus to send a higher numbered program, you will need to depress the PRESET button several times, and "count up" to it. (If the program number you want is between 51 and 100, you can use the PRESET button and "count down" instead.) There is no indicator for the currently selected program; refer to the display on the connected MIDI device to confirm your selection.

Instructions Manual

**STUDIO 900** 

**STUDIO 1100** 

MIDI PEDALBOARD MP-1

DEUTSCH

Willkommen auf der Welt von Masterkeyboard Fatar. Die Masterkeyboard Studio 1100 ist ein kompletter, vielseitiger und schnell benutzbarer Midi Controller. Er kann entweder für Live-Darstellungen als auch für Studioarbeiten verwendet werden.



## TECHNISCHE DATEN:

Die Masterkeyboard Studio 1100 besteht aus:

- dynamischer Tastur mit 88 Tasten
- After touch
- 32 Presets

- 10 Switches, von denen 4 für Aktivierung der Tastaturzone, 2 für Änderung des Presetsektors und 4 für Änderung von Preset

- 2 Sliders, 1 für Main Lautstärke, und 1 für andere Funktionen anweisbar.

- 1 3-Ziffer-Display
- 2 Wheels für Pitch und Modulation
- 2 Parallele Midi-out
- 1 Midi in
- 1 Jack Eingang für Sustain Pedal
- 1 Jack Eingang für Laustärkepedal
- 1 Versorgungsschalter
- 1 Eingang für DC-Versorgung
- 11 schwarze Master- Tasten sind mit speziellen Funktionen belegt.



1) Den Spannungsadapter mit der Netzsteckdose verbinden ( bitte prüfen, ob die Spannung des Adapters mit der Netzspannung übereinstimmt). Das Ausgangskabel des Adapters mit dem Stromeingang des Masterkeyboard verbinden. (Studio 1100 akzeptiert 9V-DC Versorgung mit positiver Polarität (+) in der Mitte und braucht einen minimalen Strom von 200 mA).

2) Midikabel mit Expander oder mit anderen Midi-Geräten verbinden.

3) Beim Drücken der Taste Power wird das Masterkeyboard Studio 1100 aktiviert und sofort auf die Funktion Preset -11- gesetzt.

4) Um Sustain und Lautstärke zu kontrollieren, muß für Sustain ein Pedal mit dem Kontakt Norma-geöffnet und mit dem zuständigen Jack gekoppelt werden, z.B. VFP1/10. Für die Lautstärke muß ein lineares Kontrollpedal mit Stereojack gekoppelt werden (z.B. VP26).

## PROGRAMMIERUNG DES STUDIO 1100:



#### PRESETÄNDERUNG:

Mit den zwei Pfeiltasten unter dem Display wird die Presetzone erhöht oder vermindert (Studio 1100 kann 32 Presets speichern, die in 8 Zonen zu je 4 aufgeteilt sind). Nach Anwahl der gewünschten Zone, einen der 4 Switch unter dem Zeichen PRESET drücken. Erscheint 11 auf dem Dispay, ist der Preset 1 der Zone 1 aktiviert.

#### DIE ZONEN:

Innerhalb der einzelnen Preset (oder Patch) ist es möglich, 1 bis 4 Tastaturzonen je Split oder Überlagerung zu aktivieren. Jede Zone kann programmiert werden, um alle Midi Kontrollen auszuführen.

Für die Aktivierung und Disaktivierung aller Zonen, Switch zwischen 1 und 4 unter der Bezeichnung ZONES drücken. *PROGRAMMIERUNG DER ZONEN:* 

Folgende Anweisungen beziehen sich auf die Änderungsverfahren einer Zone und auf alle Softwaremöglichkeiten des Keyboard. In jedem Preset ist es möglich, max.4 Zonen zu aktivieren, Studio 1100 kann aber nach jedem beliebigen Bedürfnis programmiert werden.

Piano (Zone 1, channel 5)

Strings (Zone 3, channel 8)
Bass (Zone 2, channel 4)
Flute (Zone 4, channel 12)

## > PROGRAMMIERUNG DER ZONEN:

Folgende Anweisungen beziehen sich auf die Änderungsverfahren einer Zone und auf alle Softwaremöglichkeiten des Keyboard. In jedem Preset ist es möglich, max.4 Zonen zu aktivieren, Studio 1100 kann aber nach jedem beliebigen Bedürfnis programmiert werden.

## KEYRANGE ODER ZONENVERLÄNGERUNG:

Switch der zu aktivierenden Zone gedrückt halten - gleichzeitig die Taste Funktion 1 drücken (oben links) - beide Switch-Tasten loslassen - es leuchtet das auf die Zone bezogene Led, und auf dem Diplay wird die Taste der höchsten Note angezeigt. Jetzt bestehen zwei Möglichkeiten, um die Anfangstaste und die Endtaste der Zone zu bestimmen:

Es kann direkt auf dem Keyboard die höchste und die tiefste Note gespielt werden, und automatisch wird das Key Range festgelegt. Die Funktion <EDIT> ist dann beendet, und das Led der entsprechenden Zone leuchtet nicht mehr.

Bei der zweiten Variante wird durch den Slider <CSL/DATA> die Taste der höchsten Note festgelegt, wird jetzt ein zweites Mal die Switch-Funktion 1 gedrückt, leuchtet im Display die Taste der höchsten Note. Durch den Slider <CSL/DATA> kann jetzt die Nummer der Taste der höchsten Note festgelegt werden. Um die Funtkion <EDIT> zu beenden, den Switch der Zone drücken.

## 🕨 RCV CHAN - MIDI KANAL AUF EMPFANG:

STUDIO 2001 verfügt über einen MIDI INPUT. Damit nimmt das Keyboard die von anderen, extern en Geräten übertragenen Daten auf , die in MIDI OUT (MIDI MERGE) wieder ausgegeben werden können.

Switch der Zone gedrückt halten, um den Midi Empfangkanal festzulegen, dann Switch der Funktion n.1 drei Mal drücken, und auf dem Display wird die Nummer des Empfangkanals angezeigt. Beim Drücken den Slider <CSL/DATA> wird die gewünschte Nummer festgelegt. Erscheint ein orizontaler Strich <-> wird Studio 1100 als Midi Merge funktionieren. Er wird alle Informationen von allen Kanälen umleiten. Wenn zum Beispiel die Nummer 1 angezeigt wird, dann werden alle Daten umgeleitet, aber die Meldungen von Programmänderung werden als Progrann Change akzeptiert, die die Presets des Studio 1100 ändern werden. Switch der Zone drücken, um die Funktion <Edit> zu beenden.

#### PROGRAM CHANGE:

Switch der Zone gedrückt halten und Switch der Funktion n.2 drücken, um ein Program Change bezüglich der gewünschten Zone festzusetzen. Es leuchtet das auf die Zone bezogene Led und beim Bewegen den Slider <CSL/DATA> erscheint auf dem Display die Nummer von Program Change (Studio 1100 akzeptiert Nummer zwischen 1 und 128). Will man Program Change aktivieren, muß der horizontale Strich <--> gedrückt werden. Um die Funktion <Edit> zu beenden, Switch der Zone drücken. Es besteht eine weitere Möglichkeit für die schnelle Speicherung des Parameters Program Change: Switch der gegebenen Zone gedrückt halten und durch die mit den Nummern 0 9 bezeichneten schwarzen Tasten die gewünschte Nummer eingeben. Die neuen Daten werden auf dem Patch gespeichert und weitergegeben, wenn der Switch der Zone logelassen wird.

#### BANK SELECT

Um einen Befehl von BANK CHANGE zu aktivieren, den Switch der Zone gedrückt halten, die schwarze Taste <BANK> drücken und die Bereichsnummer (0-225) mit den Tasten 0-9 eingeben. Die neuen Daten werden gespeichert, wenn der Switch der Zone losgelassen wird.

## CHANNEL - MIDIKANAL

Um den Midikanal der Zone festzulegen, den Switch der Zone gedrückt halten und den Swtich Funktion 2 zweimal drücken. Beide Switches loslassen. Das Led der Zone leuchtet. Das Display zeigt die Kanalnummer an, die durch den Slider <CSL/DATA> gewählt wird. Um die Funktion <EDIT> zu beenden, Switch der Zone drücken.

## WHEELS - MODULATIONSRÄDER

Das MASTERKEYBOARD STUDIO 1100 verfügt über 2 Wheels. Das eine ist für das Pitch Bend bestimmt, mit zentraler Rückholfeder, und das andere für die Modulation.

Alle vier Zonen des Keyboards können beide Wheels aktivieren und disaktivieren.

Switch den entsprechenden Zone gedrückt halten und Switch der Funktion n. 2 dreimal drücken. Beide Switches loslassen. Das Led der Zoine leuchtet und das Display zeigt <ON> oder <OFF>. Durch den Slider <CSL/DATA> kann die Programmierung geändert werden. Um die Funktion <EDIT> zu beenden, Switch der Zone drücken.

Jetzt werden wir einige Informationen über EDIT und PRESET ohne manuelle Vorgänge geben.

## LAUTSTÄRKE

Die Anfangslautstärke einer Zone wird durch den Slider <CSL/DATA> festgelegt (die Werte sind zwischen 0 und 127). Um die Initialisierung der Lautstärke auszuschalten und den Wert des Preset unverändert zu behalten, muß man den horizontalen Strich <-> festlegen.

## VELOCITY - DINAMIK

Um einen Wert der Dynamik auf der Tastatur anders als den Default-Wert (3) festzulegen, den Slider <CSL/DATA> betätigen und den gewünschten Wert eingeben (die Palette geht von -5 bis +5). Wenn zum Beispiel ein CROSS FADE zwischen 2 Klängen festzulegen ist, das von der Dynamik einer Berührung gesteuert wird, muß in einer Zone ein positiver Wert und in der anderen ein negativer Wert festgelegt werden.



#### AFTER TOUCH

So wie bei den Wheels, kann man in allen Zonen das AFTER TOUCH aktivieren und disaktivieren. Die Aktivierung <ON>, und Disaktivierung <OFF> des After Touch erfolgt durch den Slider <CSL/DATA>.

**PEDAL** 

In der dritten Funktion des Switch function n. 4 gibt es 2 mögliche Programmierungen: Die erste erfolgt, wenn der Switch function n. 4 dreimal gedrückt wird. Auf diese Weise wird die Kontrolle des linearen Pedals programmiert. Die Default-Programmierung des Pedals ist #7, d.h. Lautstärke. Wenn aber der Slider <CSL/DATA> betätigt wird, kann eine andere Kontrolle zwischen 0 und 127 festgelegt werden. Das gilt für jede einzelne Zone. Will man den Default-Wert unverändert lassen, muß man den horizontalen Strich <-> festlegen. Der durch das Pedal geänderte Lautstärkenwert wird nicht direkt aktiviert, er erhöht bzw. reduziert den Lautstärkenwert der Initialisierung in der Zone.

Die zweite Programmierung betrifft das Pedal Sustain. Das Pedal Sustain gedrückt halten, Switch function n. 4 dreimal drücken, das Pedal Sustain loslassen. Das display wird dann <ON> bzw. <OFF> anzeigen. Um das Pedal Sustain für die Zone zu disaktivieren, <OFF> auswählen.

## VORGÄNGE IN DER UMGEBUNG <EDIT>

Wenn man sich in der Umgebung <EDIT> befindet, kann man ununterbrochen verschiedene Zonen und Funktionen ändern und die Programmierung beschleunigen. Um die Zone zu wechseln, Switches mit den Pfeilen drücken. Um die verschiedenen Parameter von EDIT aufzustellen und zu ändern , die entsprechenden Funktion-Switches drücken.

#### SAVE/LOAD DATA

Es besteht die Möglichkeit, den Inhalt des Speichers von den 32 Preset zu speichern und zu laden, durch das exklusive System MIDI DATA PUMP.

## ANWEISUNGEN ZUR SPEICHERUNG

Den Computer oder das andere Empfangsgerät zur Speicherung von SYS-EX vorbereiten; einen beliebigen Switch der Zonen gedrückt halten: den Switch mit dem rechten Pfeil und der Schrift <SAVE> drücken. beide Switches loslassen. Das Display zeigt jetzt ein "S" mit einer Reihe von Zahlen von 1 bis 8, d.h. die 8 Presetbereiche. In wenigen Sekunden erfolgt das DUMP. Jetzt muß die Datei in dem externen Gerät gespeichert werden.

ANWEISUNGEN ZUR SPEICHERUNG UND LADEN VON DATEN Einen beliebigen Switch der Zonen gedrückt halten, den Switch mit dem linken Pfeil und der Schrift <LOAD> drücken, beide Switches loslassen. Das Display zeigt jetzt ein "L" an, und STUDIO 1100 wartet auf die Daten vom externen Gerät. Das Gerät vorbereiten, das die Daten SYS-EX senden muß. Datenübertragung beginnen. STUDIO 1100 wird die 32 Presets laden, die in dem externen Gerät gespeichert waren. Nach beendeter Übertragung, den letzten Preset auswählen. Die Input-Output Übertragung erfolgt via MIDI.

Allgemeinreset - Preset Initialization

Wird ein Reset notwendig (wegen verschiedener Programmierungsfehler oder Softwareblock), ist folgendes durchzuführen: Das Masterkeyboard ausschalten, die Pfeiltasten gleichzeitig gedrückt halten (mit den Schriften LOAD/SAVE), das SUTDIO 1100 anschalten und die Tasten noch 2-3 Sekunden gedrückt halten.

Hierunter wird eine indikative Aufstellung für die Programmierung der 32 Presets nach dem Allgemeinreset beigelegt. Diese entspricht der Programmierung des Herstellers:

Preset 11 = Zone 1 ON - Zone 2 OFF - Zone 3 OFF - Zone 4 OFF

Zone $1 = Pro$	ogram Change 1	Verlängerung 88 Tasten
Zone $2 = Pro$	ogram Change 2	Verlängerung 88 Tasten
Zone $3 = Pro$	ogram Change 3	Verlängerung 88 Tasten
Zone $4 = Pro$	ogram Change 4	Verlängerung 88 Tasten

Preset 12 = Zone 1 ON - Zone 2 ON - Zone 3 ON - Zone 4 ON

Zone 1 = Program Change 1	Verlängerung 88 Tasten
Zone 2 = Program Change 2	Verlängerung 88 Tasten
Zone 3 = Program Change 3	Verlängerung 88 Tasten
Zone 4 = Program Change 4	Verlängerung 88 Tasten

Preset 13 = Zone 1 ON - Zo	one 2 ON - Zone 3 ON - Zone 4 ON	KONTROLLNUMMER	KONTROLLFUNKTIONEN
Zone 1 = Program Chang	e 1 Split 1	19	Gen'1 Purpose #4
Zone $2 = Program Change$	e 2 Split 2	20-31	Undefined
Zone $3 = Program Chang$	e 3 Split 3	32	Bank
Zone $4 = Program Chang$	e 4 Split 4	33-63	Least significant byte for values 0 to 31
0 0	· · · ·	64	Sustain (Damper)
Preset 14 = Zone 1 ON - Z	one 2 ON - Zone 3 OFF - Zone 4 OFF	65	Portamento ON/OFF
7 1 D . Ol .	1 V I	66	Sostenuto
Zone I = Program Chang	e 1 Verlangerung 88 Lasten	67	Soft pedal
Z = Program Chang	e Z Verlangerung 88 Lasten	68	Undefined
Zone 3 = Program Chang	e 3 Verlangerung 88 Lasten	69	Hold 2
Zone 4 = Program Chang	e 4 Verlangerung 88 Lasten	70-79	Undefined
Presets von 21 bis 84 sind	identisch mit Preset 11	80	Gen'1 Purpose #1
		81	Gen'1 Purpose #2
SPEICHERUNG DER AK	TIVEN SONEN BEIM AUFRUFEN DER PRESETS:	82	Gen'1 Purpose #3
Die entsprechenden Zone	n aktivieren; <edit> aktivieren und disaktivieren.</edit>	83	Gen'1 Purpose #4
		84-91	Undefined
Hierunter wird eine Aufste	llung der kontrollfunktionen MIDI beigelegt, die zum	92	Tremolo depth
Slider <csl data=""> und zu</csl>	im linearen Pedal gegeben werden können:	93	Chorus depth
		94	Detune
		95	Phaser depth
0	Bank	96	Data increment
1	Modulation	97	Data decrement
Z	Breath controller	98-121	Undefined
3	Undenned	122	Local control ON/OFF
4	Foot controller	123	All notes OFF
5	Portamento rate	124	OMNI OFF
6	Data entry MSB	125	OMNI ON
/	Volume	126	Mono ON - Poly OFF
8	Balance	127	Poly ON - Mono OFF
9	Undenned		
10	Pan		
11 10.15	Expression		
12-15	Undefined		
10	Gen 1 Purpose #1		
17	Gen 1 Purpose #Z		
18	Gen'l Purpose #3		