

Q-Select

GENERAL MIDI STANDARD
ACCORDION MIDI UNIT



AND

Music Maker

GENERAL MIDI STANDARD
ACCORDION MIDI UNIT
WITH INTERNAL
SOUND CARD

WITH SPECIAL
MUSIC MAKER
QUICK START GUIDE



OPERATING MANUAL
MANUALE D'USO
BEDIENUNGSANLEITUNG
MODE D'EMPLOI

A **Musictech** product

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INDEX

TECHNICAL CHARACTERISTICS	3
CONNECTIONS	4
HOW TO PROGRAMME THE RIGHT HAND (Right Hand)	5
How to select sounds from Banks other than Bank 0	5
HOW TO CHANGE VALUES OF THE PARAMETERS (Keys 0-9) ..	6
HOW TO PROGRAMME THE GLOBAL SECTION	6
HOW TO PROGRAMME THE PREFERRED PERFORMANCES	7
HOW TO PLAY THE Q-SELECT AND MUSIC MAKER	8
HOW TO RESET	8
General Reset	8
Reset of a Performance	8
Reset of GLOBAL A	8
Reset of GLOBAL B	8
HOW TO PROGRAMME THE PERFORMANCE PARAMETERS	9
RIGHT HAND (same procedure for all sections)	9
EFFECT CONTROLLER	10
AFTER TOUCH	10
RYTHYM SECTION	11
Start/Stop	11
Tempo	11
SONG PLAY FUNCTION (with System Exclusive code)	11
SONG SELECT (with System Exclusive code)	11
FUNCTIONS 12	12
EXIT	12
VOLUME +/-	12
DYN - RH - LH - GLOBAL	12
RIGHT OFF	12
DISPLAY ABBREVIATIONS	12
PLAY	12
SAVE	13
HOW TO SAVE THE PROGRAMMING	13
DUMP OUT	13
DUMP IN	13
HOW TO LOCK THE CONTROL KEYS	13
HOW TO UNLOCK THE CONTROL KEYS	13
MUSIC MAKER - SPECIAL QUICK START GUIDE	14
OTHER MUSICTECH PRODUCTS FOR THE ACCORDION	15
MICROPHONE SYSTEMS	15
AMPLIFICATION	16

This operating manual was written and compiled by *Gary Stewart Hurst*

'Q-SELECT' and 'MUSIC MAKER' Model Accordion MIDI Unit

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WITH MUSIC MAKER
- SPECIAL QUICK START GUIDE -

OPERATING MANUAL

MUSIC MAKER DIGITAL 50 'REEDLESS' ACCORDION

The **MUSIC MAKER DIGITAL 50** is the most complete system that the accordionist can find on the market today. Based on the World famous Q-Select System, plus a very professional Digital Sound Module, designed for use by both performing musicians and amateur players alike.



MUSIC MAKER Digital 50 Piano Accordion (shown with headphones)

Full sized good quality lightweight Digital Accordion with sensitive and tireless piano keyboards. **Weights 13 lbs (6 Kg).**

Same characteristics as MUSIC MAKER Midi but supplied as a complete 'ready to play' instrument.

ALL THE HIGHEST QUALITY COMPONENT PARTS OF THE INSTRUMENT ARE MADE ENTIRELY IN CASTELFIDARDO.

- **50 different Preset Performances** are already memorized in the Flash memory all using digitally sampled sound that are recognized as the best available on the market, of which 25 are accordions unrivalled in their sound quality and reality. The other 25 performances feature strings, choruses, organs, guitars, brass, etc. The sounds have been specially selected with all kinds of music in mind, so providing valid backup to working accordionists.

- **All preset Performances can be re-programmed to choice by the user.**

- **Dynamic Bellows Expression** responds to the slightest movement and provides warmth and feeling to even the most delicate sounds.

- **Control of external MIDI expanders and keyboards** by means of the programmable MIDI Out features of the familiar Q-Select system offers even more flexibility in the sound combinations and arrangements.

- **2 stereo headphone outputs**, suitable for private practise and accordion school use

- **Pitch bend functions (optional).**

Q-Select Music Maker

NEW GENERATION GENERAL MIDI STANDARD ACCORDION MIDI UNITS

You have chosen to buy the **Musictech 'Q-Select' ('Music Maker')** Accordion MIDI Unit! You made the right choice!

Musictech has been associated with accordion electronics for many years, and we are sure that your choice will be justified by the complete satisfaction you will experience the minute you play your accordion with this MIDI unit.

The unit, the latest in a line of MIDI interfaces for accordion, has been developed by an expert team of electronic engineers in collaboration with professional accordionists. Not the least important feature is the use of a **Solid State contact System**. By means of this contact system **Musictech** has ensured that all the problems experienced with traditional systems such as inconstant or crackling contacts will be a thing of the past.

By also adding several other important features with respect to previous models, **Musictech** has produced a MIDI unit that is not only technically advanced and designed to easily replace previous programmable models, but is also exactly what the accordionist wants.

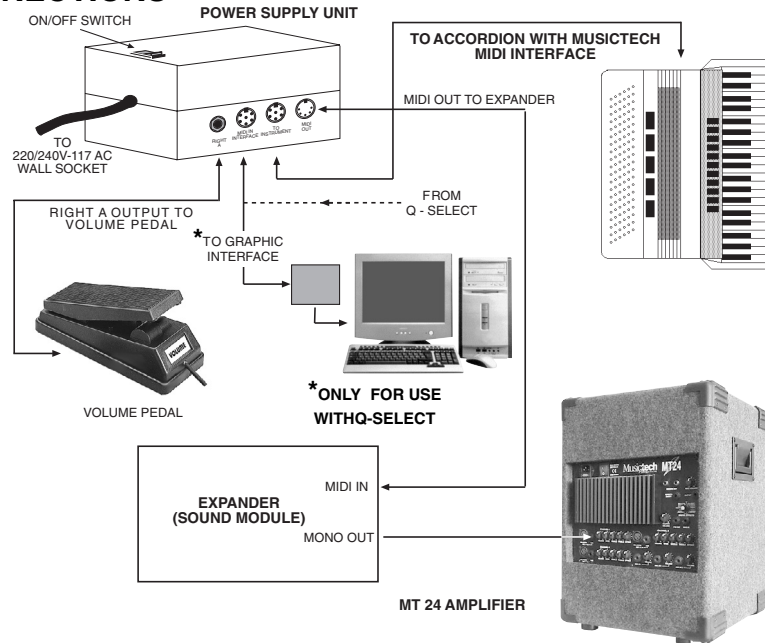
This manual has been prepared to inform you of the unit's characteristics, to explain how to make the various connections and how to programme the various functions.

Musictech wishes you many hours of pleasure in the 'World of MIDI'.

TECHNICAL CHARACTERISTICS

- WELL PROVEN SOLID STATE CONTACT SYSTEM.
- BELLOWS DYNAMICS
- Selection of sound banks by means of the GENERAL MIDI commands.
- Can memorize up to 150 Performances, with a DIFFERENT MIDI CHANNEL for each section, 150 Global A, 150 Global B.
- PLAY function with 6 groups of 25 performances each.
- Two polyphonic channels for the right hand and Chords.
- Transmits on all 16 MIDI channels.
- The MIDI channel of any section can be set to 'OFF'.
- PROGRAM CHANGE 'OFF' control.
- PARAMETERS
CC0 and CC32 control, Sustain, Octave \pm 3, Poly/Mono option, Dynamic Expression Min. Value, Bellows speed settings, Effect controller, Keyb. Split, Volume \pm , Right 'Off', After Touch, Note velocity, Rhythm sel., Tempo and Start/Stop functions.
- Arrangement Volume Control transmission.
- RightHand volume control by means of pedal.
- Value \pm for Program Changes and Performances.
- EXIT function.
- DUMP IN / DUMP OUT function (enabling all programming to be saved and programming of the Q-SELECT via computer by means of the special dedicated MUSICTECH Graphic Interface.
- PITCH BEND function (optional).

CONNECTIONS



Make all the connections between the power supply unit and the accordion and expander (s) referring to the diagram above, **including the audio jack output lead from the accordion to the amp in the case of the Music Maker.**

N.B: - While switching the power supply 'ON', make sure that the bellows of the accordion are fully closed during the time the leds on the display of the MIDI are rotating. This ensures that perfect dynamic control is obtained both when opening and closing the bellows.

Notes:- a. ONLY Q-SELECT - The 5-pin MIDI IN - INTERFACE socket enables the reception of programmes from the MIDI OUT socket of another Q-SELECT.

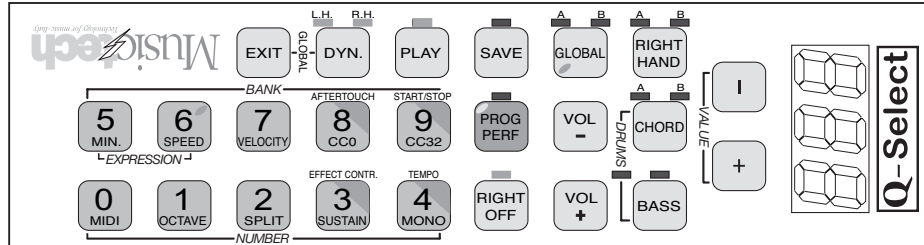
Furthermore it enables the connection of a special MUSICTECH Graphic Interface either in RS-232 or USB modes, enabling programmes memorized in the Q-SELECT to be transmitted to the computer and vice-versa and it is also possible to do the programming on the computer and then load them into the Q-SELECT.

N.B. - For use of the MIDI IN function, USE only 3-core MIDI standard CABLES - never 5 core types.

A 5-core MIDI standard cable is though necessary for connections to the MUSICTECH Graphic Interface (IN INTERFACE).

b. Default settings are: RIGHT A - CH. 1; RIGHT B - CH. 4; CHORDS A - CH. 2; CHORDS B - OFF; BASS - CH. 3; DRUMS - CH. 10; GLOBAL A - CH.16, GLOBAL B - OFF.

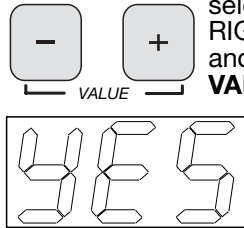
PROGRAM CHANGE and VOLUME 'OFF' controls for the RIGHT B, CHORD A, CHORD B, BASS and DRUMS sections.



HOW TO PROGRAMME THE RIGHT HAND

(RIGHT HAND A = CANALE MIDI 1; RIGHT HAND B = CANALE MIDI 13)

Starting from performance 000, press **RIGHT HAND** (the led A will turn 'On' indicating that the RIGHT HAND A section has been selected - press **RIGHT HAND** again to select RIGHT HAND B *in the case of the Music Maker*) and then by means of the **numeric keys** (0 - 9) or **VALUE +/-**, select a sound (for example 0 - 0 - 7) and if you like it press **SAVE** and then **SAVE** again when the display will show 'YES' and automatically pass to the next performance number (in this case 001).



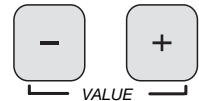
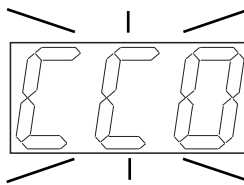
At this point you can repress **RIGHT HAND** and repeat the stages above for a maximum of 150 Performances.

Note:- SELECTION OF SOUNDS FROM FURTHER BANKS IF AVAILABLE ON THE EXPANDER (SOUND MODULE).

If you are using an expander (Sound Module) with more than one BANK; for example, BANK 1, BANK 13, BANK 32 etc....., meaning that a preset in a Bank other than 0 needs to be selected, after pressing **RIGHT HAND** followed by **PROG PERF**, press **CC0** (key 8) which will cause the display to briefly show 'CC0' followed by the parameter which will flash for about 6 secs.



During the time that the parameter is flashing, select the Bank other than Bank 0, for example Bank 13, with the **VALUE +/-** keys. Now repress **PROG PERF** and proceed with the selection of the sound as explained above with the **numeric keys** (0 - 9) or **VALUE +/-**, remembering to press **SAVE** and then again **SAVE** when the display will show 'YES' to automatically proceed to the next performance to programme.



HOW TO CHANGE THE VALUES OF THE PARAMETERS (keys 0 - 9)

During the programming, or any time you need to make a modification to the value of a parameters inscribed on keys 0 to 9 (MIDI, OCTAVE, SPLIT, SUSTAIN, MONO, MIN., SPEED, VELOCITY, CONTROL CHANGE 0 -CC0, CONTROL CHANGE 32 - CC32), after pressing **RIGHT HAND** and then **PROG PERF**, press the key of the relative parameter that you want to modify and change the setting with **VALUE +/-** (see pages 9 and 10).

After setting the val, repress **PROG PERF** to conclude the operation.

Obviously, if you want to keep the setting in the current performance, press **SAVE** and **SAVE** again to memorize the new setting in the performance shown on the display.

If you are using Automatic Accompaniment on the Left Hand, while in the PLAY mode, that is you are not programming, if you press **VOLUME +/-** the display will flash showing 'Arr', during which time you can adjust the volume of the entire arrangement by means of a **System Exclusive** code and memorize the new setting in the performance by twice pressing **SAVE**.

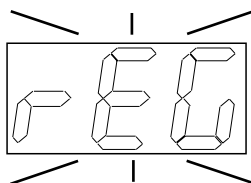


The dynamic functions **RH**, **LH** and **GLOBAL** as well as **RIGHT OFF** can be memorized in 'Real Time' in the various performances, but these will be lost when changing performance unless this is done.

The **GLOBAL A** section transmits on **CH. 16** by default and this is used for to recall the REGISTRATIONS, USER PROGRAMS, or PATCHES according to how they are defined by the expander (Sound Module) or keyboard in use.



HOW TO PROGRAMME A GLOBAL SECTION



Press **GLOBAL** (led A will turn 'On' indicating that GLOBAL A has been selected), then press **PROG PERF** followed by **numeric key 6**. The display will flash 'rEG' for about 6 secs duing which time you can select the REGISTRATIONS by means of the **VALUE +/-** or **numeric keys (0 - 9)** and if all is well, press **SAVE twice**

to memorize and then proceed to the next GLOBAL, then press **PROG PERF** again, **numeric key 6** and select another REGISTRATION as above for a total of 150 Registrations.

To change the MIDI channel of the GLOBAL section or the CC0 or CC32 do as follows:

Press **GLOBAL A**, press **PROG PERF** then **MIDI** or **CC0** or **CC32** and change the value with **VALUE +/-**.

Now press **numeric key 6** to select the REGISTRATION with the **VALUE +/-** or **numeric keys (0 - 9)** and, if all is well, memorize it by pressing **SAVE twice** to show **'YES'** on the display and then proceed to the next GLOBAL.

Up to a maximum of 150 Performances, 150 Global A and 150 Global B can be memorized. You can memorize 150 PERFORMANCES and GLOBAL A in one expander and the GLOBAL B on another.

IMPORTANT NOTE

The PROGRAM CHANGE for the CHORD, BASS and DRUMS sections is 'OFF' by default, while for the Right hand, RIGHT A and RIGHT B, the PROGRAM CHANGE is 'ON' with the possibility to change this to 'OFF' with the **VALUE -** key. In this way the Midi only transmits the Right Hand commands without modifying the parameters of the Arrangement already programmed on the expander (sound module).

HOW TO PROGRAMME THE PREFERRED PERFORMANCES

During the PLAY function it is possible to set the order of Preferred Performances, Global A and Global B.

1. Press **PLAY**. Repeating this key several times will enable the selection of the *GROUP* of sounds (indicated on the left of the the display by the numbers 1...6).
2. Select the *BANK* of sounds with the **BANK** keys on the control panel (indicated in the centre of the the display by the numbers 5...9).
3. Assign the sound *NUMBER* with the **NUMBER** keys on the control panel (indicated on the right of the display by the numbers 0...4).
4. Press **SAVE**; the led corresponding to this key will flash, while the display will show the last programme selected (Performance, Global A or B).
5. Select the Performance now desired with the **VALUE +/-** keys; repeating **SAVE** memorizes this in the position selected in point 3, confirmed by 'YES' shown on the display.

HOW TO PLAY THE Q-SELECT AND MUSIC MAKER

Press **PLAY** to access the sounds in Group 1. **Keys 5, 6, 7, 8, 9** will select the 5 Banks in this group. Each Bank contains 5 sounds selected by means of the **numeric keys 0, 1, 2, 3 and 4**, so you can form a group of 25 Performances.



By pressing **PLAY** again you can proceed to the second group of a further 25 Performances and so on up to maximum of 6 groups, giving a total of 150 Performances or Globals.

Group 1 provides the PERFORMANCES or GLOBALS from 000 to 024; Group 2 from 025 to 049 and so on, up to Group 6 that contains 125 to 149, making a total of 150 in all.

You will see indicated on the display, from left to right, the Group N° (from 1...6), in the centre the Bank N° (from 5...9) and on the right the Performance N° (from 0...4).

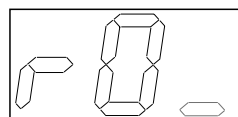


Naturally to leave this situation, press **EXIT**.

HOW TO RESET

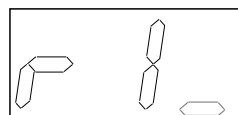
General Reset

With the Midi turned 'Off', press **keys 0, 2 and 4** together and keep these pressed while turning the Midi 'On' at the power supply. Release the keys after 3 secs. The display will rotate showing as on the right.



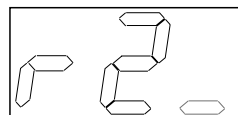
Reset of a Performance

With the Midi turned 'Off', press **keys 0, 2 and 6** together and keep these pressed while turning the Midi 'On' at the power supply. Release the keys after 3 secs.



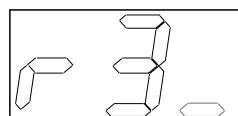
Reset of GLOBAL A

With the Midi turned 'Off', press **keys 0, 2 and 8** together and keep these pressed while turning the Midi 'On' at the power supply. Release the keys after 3 secs.



Reset of GLOBAL B

With the Midi turned 'Off', press **keys 0, 2 and 9** together and keep these pressed while turning the Midi 'On' at the power supply. Release the keys after 3 secs.



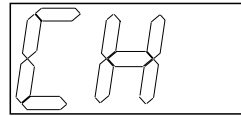
HOW TO PROGRAMMARE THE PERFORMANCE PARAMETERS

1. Select the section to be programmed, for example **RIGHT HAND A** (CH 1) or **RIGHT HAND B** (CH 13) in the case of the Music Maker.
2. Press **PROG PERF**; now after pressing one of the parameters (**0 - 9**), the display will show the abbreviation and while it is flashing the current value of the parameter that follows it is possible to change this value with the **VALUE +/-** keys.

KEY 0

MIDI

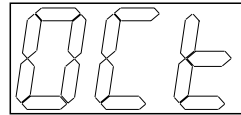
CH Programmes the Midi Channel ('OFF' - 16).



KEY 1

OCTAVE

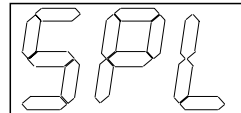
OCT Sets the octave (OFF; (-3 to +3).



KEY 2

SPLIT

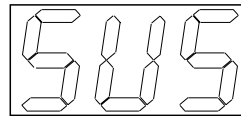
SPL Sets the keyboard splits for the RIGHT HAND and CHORD sections that have two channels (from OFF to Do⁵).



KEY 3

SUSTAIN

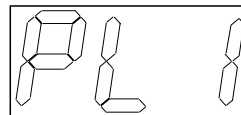
SUS Enables the Sustain length to be varied (from OFF to 127).



KEY 4

MONO

PL1 Determines the playing mode of the notes (On/Off). In the 'MONO' mode, only one note at a time can be played, the highest.

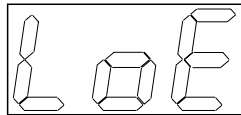


EXPRESSION

KEY 5

MIN

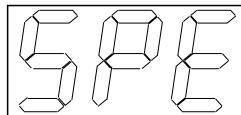
LoE Sets the lowest value (from 0 to 100) of the dynamics.



KEY 6

SPEED

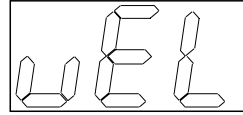
SPE Changes the bellows speed value (from 1 to 2).



KEY 7

VELOCITY

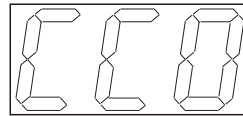
VEL Sets the "note velocity" value (from 40 to 127); which determines the volume and timbre.



KEY 8

CC0

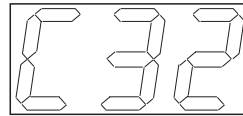
CC0 Control Change 0. PROGRAM CHANGE bank from 000 to 127.



KEY 9

CC32

C32 Control Change 32. PROGRAM CHANGE bank from 000 to 127.



The same procedure can be carried out for the following sections:

RIGHT HAND B - Midi Channel 4 by default on Q-SELECT for external Midi control or Midi Channel 13 for control of internal sounds on MUSIC MAKER.

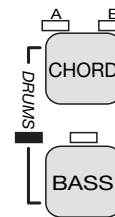
CHORD A - Midi Channel 2 by default on Q-SELECT and MUSIC MAKER for external Midi control

CHORD B - Midi Channel 'OFF' by default on Q-SELECT or Midi Channel 14 for control of internal sounds on MUSIC MAKER.

BASS A - Midi Channel 3 by default on Q-SELECT and MUSIC MAKER for external Midi control.

BASS B - Midi Channel 15 for control of internal sounds on MUSIC MAKER.

DRUM - Midi Channel 10 by default (only on Q-Select).

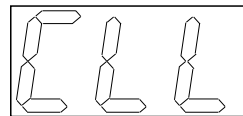


N.B: to activate the **DRUM** section (only Q-SELECT), press keys **BASS** and **CHORD** together.

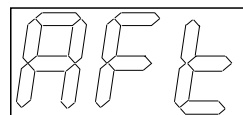
After first pressing **RIGHT HAND** and then **PROG. PERF**, to activate the following functions, first press the **relative numeric key** then press **PROG PERF** again.

EFFECT CONTROLLER (3) This is activated by first pressing **key 3** and **PROG PERF** together (first 3 then PROG PERF).

While the display is flashing, it is possible to select the following parameters with the **VALUE +/-** keys OFF (no effect controlled); POR (Portamento); SOS (Sustain); tRE (Tremolo); CHO (Chorus); CEI (Celeste); PHA (Phaser).



AFTER TOUCH (8) By pressing **key 8** and **PROG PERF** together (first 8 then PROG PERF), this effect, which is controlled by a bellows sensor, can be activated.



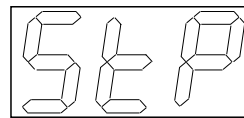
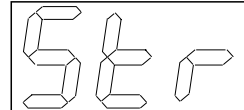
**THE PROCEDURES ON THIS PAGE APPLY ONLY TO THE
Q-SELECT MODEL**

RHYTHM SECTION

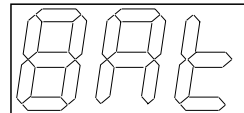
The drum section CLOCK is always transmitted as long as the TEMPO is not set to 'OFF'.

The Drum section controls are activated as follows:

START/STOP (9) The START and STOP of the Drum section are activated by pressing **key 9** and **PROG PERF** together (first 9 then PROG PERF). Pressing **PROG PERF** while keeping **key 9** (START/STOP) pressed, will alternate the START and STOP functions.



TEMPO (4) The TEMPO control is activated by pressing **key 4** and **PROG PERF** together (first 4 then PROG PERF); the display will briefly show as on the right and then show the current TEMPO setting for about 6 seconds during which time it is possible to vary the Tempo by means of the **VALUE +/-** keys.



SONG PLAY FUNCTION (with System Exclusive code)


1. Press both the **CHORD** and **BASS** keys, in the DRUMS section on the control panel, to transmit the START SONG command.
2. Re-press both **CHORD** and **BASS** again to transmit the STOP SONG command.


SONG SELECT (with System Exclusive code)


How to recall a SONG:

1. Press both the **CHORD** and **BASS** keys, in the DRUMS section on the control panel.
2. Select SONG desired by pressing the corresponding numeric keys (e.g. **2 - 6 - 0**) for Song N° 260. In the case of a SONG number between 1 and 99, always select three numbers (e.g. **0 - 7 - 8** for SONG number 78).
3. If all is well, press **SAVE** and then **SAVE** again to memorize the Song in the current Performance (the display shows "YES" to confirm that the operation has taken place); to proceed, repeat the procedure in points 2 and 3.

FUNCTIONS

EXIT Used to return to the basic configuration (that shown when the Midi is switched 'On') in which all the sections are turned 'Off'. 

VOLUME +/- When a led of one of the sections (RIGHT HAND, CHORD, BASS, DRUM) is 'On', these keys are used to modify the Volume of the relative section and can have values from 'OFF' to 000 - 127. If they are pressed together, 'OFF' will show on the display; pressing them together will also restore the previous value. 

'OFF' can also be set by keeping **VOLUME -** pressed.  When no section is selected, it is possible to change the volume of the entire Arrangement section by in 'RealTime' by means of a System Exclusive code.

This Volume setting can be also be programmed and memorized for each Performance and Programme of GLOBAL A and B by following the normal procedure of pressing **SAVE**, then **SAVE** again.

DYN - RH - LH

- GLOBAL The led turned 'On' will indicate where the bellows dynamic expression will be applicable.

Pressing **DYNAMIC** and **EXIT** together will make both leds flash together and the GLOBAL mode used for Ketron® models MS 40, MS 50, MS 60 and MS 100 will be activated.

RIGHT OFF Deactivates the electronics from the Right Hand.

DISPLAY ABBREVIATIONS

The abbreviated messages that shows on the display for about 6 seconds after which the relative value will be shown are as follows:

VOL	Volume of the section	SPE	Speed
CH	Midi Channel	VEL	Velocity
OCT	Octave	CC0	Control Change 0
SPL	Split	C32	Control Change 32
SUS	Sustain	CtL	Effect Control
PLI	Mono	Aft	After Touch
LoE	Min. Expression	BAT	Drum Tempo

PLAY Press **PLAY** to turn all the leds 'Off' and access all the Performances and Programmes in GLOBAL A or B in the form of abbreviated groups (25 Performances each) and Banks (5 Performances each). Press **PLAY** repeatedly to move to group two and three and so on, up to six.

SAVE When pressed the first time, the relative led will start to flash, then by means of **keys 0 to 9** or with the **VALUE +/-** keys, you can select the programme number to be used for the memorizing, then by pressing **SAVE** again 'YES' will be shown on the display and the memorizing will be done.

HOW TO SAVE THE PROGRAMMING

After finishing the programming and having tried everything, you can copy it to a second Eeprom, which will enable it to be recovered at a later date should this be necessary.

To activate this function do as follows:

With the MIDI turned 'Off', press **key 3 and PROG PERF** and keep them pressed while switching the power supply 'On', to activate the SAV/LOA (SAVE/LOAD) mode and by means of the **VALUE +/- keys** select SAV (Programme saving on auxiliary Eeprom) or LOA (recovery of programming from auxiliary Eeprom) and to confirm, press **SAVE** and while the abbreviation of the function is flashing on the display, press **SAVE** again to confirm the operation or **EXIT** to leave this phase. At this point you should wait some seconds for the operation to be completed. This will be indicated on the display by the rotating leds.

DUMP OUT Activated by pressing **keys 7 and PROG PERF** together. The display will show 'D O' with the segments of the third digit rotating.

DUMP IN The reception is always active and as soon as the DUMP IN function is recognized. The display will show 'D I' with the segments of the third digit rotating.

HOW TO LOCK THE CONTROL KEYS

Press both the **VALUE +/- keys** together and the display will show 'OFF'.

In this mode you will only be able to vary the Volume of the Arrangement section in 'Realtime'.

HOW TO UNLOCK THE CONTROL KEYS

Press both the **VALUE +/- keys** again and the display will show 'OFF'.

MUSIC MAKER - SPECIAL QUICK START GUIDE

1. Before switching the MIDI 'On', make sure that the bellows of the accordion or diatonic instrument are fully closed.
2. Maintain the fully closed position for the period that the display shows the rotating condition. *This enables the Bellows Expression software to sample and set up the air pressure to ensure that the sensitivity of the expression control will be perfect both when opening and closing the bellows while playing.*

3. Press **PLAY**. The display shows **1.5.0** (indicating that GROUP 1 - first 25 performances; BANK Key 5 and PERFORMANCE Key N° 0 are selected by default). You can now select the Performances in Group 1 by using keys **5, 6, 7, 8** and **9**, each of which represents a BANK of 5 Preset Performances which are recalled by pressing keys **0, 1, 2, 3** and **4**. This enables quick selection from the first group of 25 Performances available. **All performances in this group are made up of Digitally Sampled Accordion sounds.**

Press **PLAY** a second time to accede to the second group of 25 Performances which are selected in the same way.

This group contains a further 25 performances made up of various instruments such as Organs, Pianos, Brass and Woodwind and Strings etc. See included PRESET PERFORMANCE CHART.

Repress **PLAY** to accede to Groups 3 and 4 in which it is possible to memorize eventual user performances in the preferred sequence.

Repressing **PLAY** gives access to Group 5 (same performances as Group 1) and Group 6 (same performances as Group 2) played by the Rt. Hand only, leaving the left hand free to control and play arrangements from an external expander.

N.B. - You are advised to activate the Dynamic bellows Control on the Right Hand only when using Groups 1 and 2 and on both the Right and Left Hands for Group 3 in order to correctly enhance the Programmed Performances in these groups.

TRANSPOSER - To programme the transposer, press **EXIT** when in the Play mode, then press **KEY 4** and while holding this down, press **PROG. PERF**. The display shows **trs**. While **trs** is flashing on the display it is possible to transpose the instrument up to +/- 1 octave in intervals of 1 semitone.

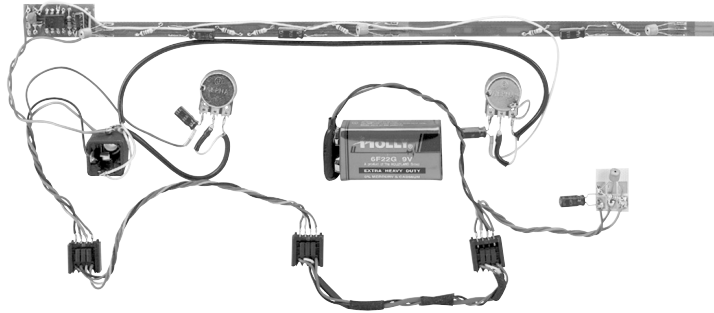
4. The MIDI channel configuration for use of the sounds from the Internal Sound Module are as follows:
RIGHT B - CH.13 **CHORD B** - CH.14 **BASS B** - CH.15
5. Only the sections and relative MIDI channels shown in point 4 should be used if reprogramming of the Performances is to be done.
6. For the control of external expanders in sections **RIGHT A** - **CHORD A** - **BASS A**, follow the other instructions on pages 9 - 10 in this manual.

OTHER MUSICTECH PRODUCTS FOR THE ACCORDION

MICROPHONE SYSTEMS

MT-04N MODEL

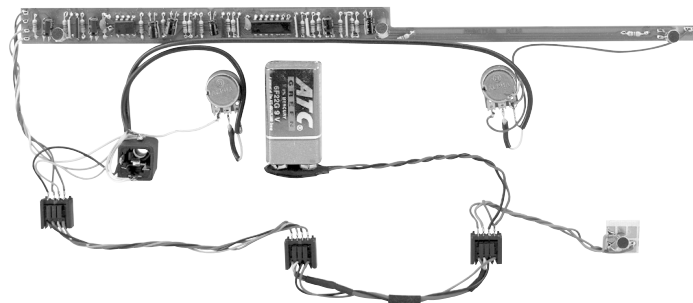
This system is the result of 'SENNHEISER' technology and years of professional experience acquired by the MUSICTECH design team. Employs three 'SENNHEISER' capsules for the right hand and one for the left. Linear response from 20 Hz to 20Khz. S/N ratio 58 dB.



MT-06N MODEL

Microphone system for the right and left hands. A *MusicTech "Custom Design"* which provides the excellent performance expected by professional accordionists.

Linear response from 20 Hz - 20Khz. S/N ratio 58 dB.



MT-03EN MODEL (External version)

For application on the grill.

Employs the same 'SENNHEISER' capsules as the MT 04, *but amplifies only the Right Hand.*



AMPLIFICATION

MT24 MIXER/AMPLIFIER 250W RMS

A 250 Watt RMS / 8 Mixer/amplifier with 6 separate channels, 3 with both balanced Mic and line inputs and 3 auxiliary low sensibility inputs. 15 Digital Effects. Same frontal appearance as MT 20. **MOSFET TECHNOLOGY** in Power Amplifier stages.

SPEAKERS: 12" dia. Woofer
250 mm x 100 mm Horn unit.
DIMENSIONS: 50 (h) x 37 (w) x 40 (d)
WEIGHT: 20 Kg (44 lbs)

MT24 showing details of the control panel mounted at rear



MT20 POWERED SPEAKER 250W RMS

A 250 Watt RMS powered speaker. Input with Volume control and output for connection to a supplementary powered speaker. Speakers and dimensions as MT 24.

WEIGHT: 19 Kg (42 lbs).

MT20 showing details of the control panel mounted at rear and front view



MT120 MIXER/AMPLIFIER 120W RMS

A 120 Watt RMS Amplifier/Mixer comprising 3 Channels each with one balanced microphone input and one line input (for accordion mic. system or expander etc). Each channel with separate Volume, Bass, Middle and Treble controls. 8" Woofer and compression tweeter. Output for connection to SUPPLEMENTARY POWERED speaker.

Electronic distortion protection.

DIMENSIONS: 37.5 (h) x 24.5 (w) x 25.5 (d).
WEIGHT: 18.75 lbs.

Rear and front views of the MT120



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