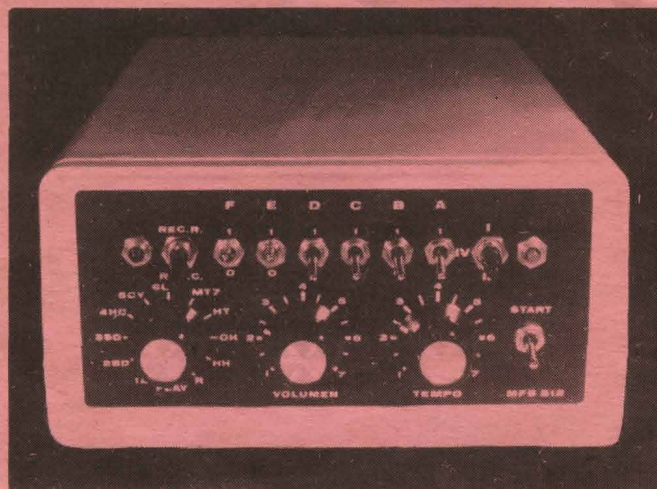


Rhythm Machine MFB 512

MFB



- 128 programmable Rhythm Patterns or Fill-ins
- 8 programmable Chains of 256 measures each
- 8 Instruments (digitally stored real sounds)
- programmable Accent
- programmable measure length
- footswitch connections for Start and Fill-in
- Mono/Stereo and 8 individual outputs
- trigger in- and outputs

Introduction

The MFB 512 is a digital rhythm-computer with digitally stored original drum and percussion sounds.

Up to 64 separate rhythm patterns and 64 separate fill-in patterns can be programmed. These can be combined into up to eight chains. Total capacity is 2048 measures.

A permanent factory installed Nicad accumulator battery insures that programmed patterns and chains remain in the unit's "memory" when the AC power is turned off.

Measures with different time signatures (3/4, 7/8, etc.) are easily programmed.

Outputs are mono or stereo; additionally, each Instrument (drum sound) can be accessed individually for connection to a multi-channel mixer.

Individual beats in a pattern can be accented by use of the accent control.

Like all other MFB products, this unit has trigger inputs and outputs. Footswitch connections enable control of various functions (Start, Fill-in).

Pre-Programmed Patterns

The MFB 512 is delivered from the factory with 64 pre-programmed Patterns for immediate use. These patterns are diagrammed on pages 8 to 15. On page seven are the corresponding memory bank positions.

Connections

All connection jacks are on the back of the unit.

The power supply is connected to the phono jack on the bottom right. The MFB 512 turns on automatically as soon as power (12V/120 mA) is connected.

IMPORTANT: In order to prevent unnecessary wear and tear, unplug the power supply from mains when not in use.

There are three methods of connecting the MFB 512 to an amplifier or mixer:

1. Mono: Use the jack marked "Mono/L." This output provides a mono mix of all instruments.
 2. Stereo: Connections to both the "Mono/L." and the "R" outputs provide a stereo mix.
 3. Instruments individually: The two 5-pole DIN outputs provide access to each individual instrument. (See illustration at the end of this manual.) Two 5-pole DIN connection cables (available from manufacturer) connected to a mixer afford the creation of different mixes of the eight instruments. Or, by this means, one or more instruments can be accessed in addition to the mono or stereo mix.
- Trigger in/out: These connection enable the MFB 512 to be synchronized with other units, such as the MFB 601 Sequencer.
- Start/Fill in: A footswitch connected to the Start jack allows the unit to be started externally. The Fill-in jack allows the insertion of a Fill-in during operation via footswitch. (See "Accessories.")

Controls

Pattern Selectors F-A

The switches marked F to A are for the selection of the 128 memory banks. The numbers are organized according to the binary system. For example, when all the switches are set to "0", memory bank No. 1 is indicated.

F E D C B A

0 0 0 0 0 0 = No. 1

0 0 0 0 0 1 = No. 2

0 0 0 0 1 0 = No. 3

0 0 0 0 1 1 = No. 4

0 0 0 1 0 0 = No. 5

etc.

Each memory bank can contain a rhythm pattern and a fill-in pattern. In conjunction with the Measure switch, 64 different rhythm patterns and 64 different fill-in patterns can be assigned to memory banks.

Record Switch

This switch has three functions:

REC.R = programming of rhythm patterns

Middle position = playback

REC.C = programming of chains

Multi-Function Control

As the name implies, this control has several functions:

1. Play: When the Multi-Function control is in the "Play" position, patterns can be manually selected and modified during playback.
2. Chain select: The number 1 to 8 indicate positions for chains Nos. 1-8. Due to technical reasons chains No. 7 and No. 8 will occur more frequently.
3. Instrument selection: During recording of patterns the following instruments can be selected by setting the Multi-Function control to the corresponding position:
BD = Bass Drum
SD = Snare Drum
LT = 13' Tom
MT = 12' Tom
HT = 10' Tom
HC = Hand Claps
CY = Cymbal
OH = Open Hi-hat
HH = Hi-hat (closed)
4. Accent: In position "1A" accents are programmed.
5. Reset/Erase: Position "R8" is used for both setting the length of the measure in the pattern during recording and erasing previously recorded instruments and patterns from memory banks.

Measure Switch

During the programming of patterns (Record switch in the REC.R position), the Measure switch determines whether a rhythm pattern or a fill-in pattern is to be programmed:

I = Rhythm pattern

II = Fill-in pattern

During manual playback the Measure switch has three functions:

I = Playback of rhythm pattern only

II = Alternate playback of rhythm pattern and fill-in pattern

IV = Playback of 3x rhythm pattern, followed by 1x fill-in pattern

During the programming of a chain (Record switch in the REC.C position), the Measure switch determines whether a rhythm pattern or a Fill-in pattern will be entered:

I = Rhythm pattern

II = Fill-in pattern

Start

This switch starts the computer. The LED above it shows the beginning of each measure.

Tempo

This control sets the speed. Being ungraduated, it allows "fine-tuning" of tempo.

Volume/Accent Control

This sets the relative volume between accented and unaccented beats. It also allows the operation of chains in the step mode (it must be in the On position). It should only be turned off during Mistake-Correction: when a mistake in a chain is to be corrected. Otherwise, when the Volume control is off, the Record switch is disfunctional.

Black and Red Pushbuttons

When the Record switch is in the REC.R position, these are used to enter instruments, accent and rests into patterns. The red pushbutton is used to program instruments and accents, the black to program rests.

When the Record switch is in the REC.C position, the red pushbutton enters the chosen pattern in the chain, while the black is used for programming reset.

Tuning Control

Allows change in over-all pitch of instruments. For example, toms can be made higher and lower, cymbals smaller or larger, etc.

Programming Patterns

IMPORTANT: During programming the Trigger-In jack must be disconnected.

Erasing

It is recommended that previously recorded instruments from patterns be erased before programming anew. To erase the entire contents of a rhythm pattern or fill-in pattern: first select the pattern with pattern selectors F-A. Then set the Record switch to REC.R and the Multi-Function control to "R8". **Start** on. By pressing the black pushbutton sixteen times, the pattern is clear. **Start** off.

To erase a single instrument in a pattern: select the pattern as above. Set the Multi-Function control to the instrument to be erased (BD, SD, etc.) and the Record switch to REC.R. **Start** on. By pressing the black pushbutton sixteen times, the individual instrument will be erased from the pattern. **Start** off. The instrument can now be reprogrammed.

Length of Measure

Each of the 128 memory banks contains 16 steps for programming. A pattern programmed into a memory bank is thus usually considered to be one measure in length containing sixteen 1/16 notes. However, a pattern with less than sixteen steps (containing, for example, one measure in 3/4 time) can be programmed as well.

Reducing the number of steps in a pattern is done as follows: after selecting with the Multi-Function control to "R8" and the Record switch to REC.R. **Start** on. Press the black pushbutton as many times as the number of steps wished (for a pattern with one 3/4 measure it would be twelve times for twelve 1/16 notes). After the desired number of steps has been entered, press the red pushbutton once. **Start** off.

Note: patterns should contain at least eight steps. Fewer than eight prevents change of patterns during playback.

If more than sixteen steps are needed (in a measure with 1/32 note subdivisions, for example), it is possible to achieve this by positioning a rhythm pattern and a fill-in pattern "back-to-back" so that 36 rather than just sixteen steps are available.

In this case programming proceeds as in a normal 4/4 measure pattern; but naturally it must be remembered that there are 32, not 16, steps to the measure (the rhythm pattern and fill-in pattern are two halves of the measure).

In the manual playback mode the Measure switch must be set to position "II" so that the rhythm pattern and fill-in pattern run alternately. When entering such a "double pattern" in a chain, both patterns, rhythm and fill-in, must be programmed together in sequence. Failure to do this will result in only half of the 32 step measure being heard during playback of the chain.

Programming A/BD/SD/HC

These instruments are programmed as follows: Multi-Function control set to the instrument to be programmed. **Start** on. Press the red pushbutton for each step where the instrument (or accent) should sound, and the black pushbutton for each step where a rest occurs. After the last instrument step is entered. **Start** off. The remaining rests (up to the end of the pattern) are entered automatically.

An example

Rhythm pattern No. 2 is to contain one 4/4 measure. Select the pattern "location" with the pattern selectors F-A: set switch F to "1", and all others to "0". Since this is to rhythm pattern No. 2, not fill-in pattern No. 2, set the Measure switch to "I". Before programming the pattern, data already existing in the memory bank should be erased: set the Multi-Function control to "R8", and the Record switch to REC.R. **Start** on. Press the black pushbutton sixteen times. **Start** off. Rhythm pattern No. 2 is now cleared for new programming.

The bass drum (BD) should sound on each half-note. Since there are 16 steps (or sixteen 1/16 notes) in the measure, BD is entered on every eighthstep: Multi-Function control to "2BD".

Record switch to REC.R. **Start** on. Entering the BD:

1x red pushbutton. The BD will play on this first step.

7x black pushbutton. Seven steps are rests before the next BD beat.

1x red pushbutton (BD).

7x black pushbutton (rests).

Now the red LED over the red pushbutton should go on, indicating that all 16 steps have been entered. **Start** off.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
BD	X	0	0	0	0	0	0	0	X	0	0	0	0	0	0	0

Now you would like to hear what you've just programmed.

Set the Multi-Function control to "Play." **Start** on. The BD should sound. Every second BD beat is indicated by the LED; it shows the beginning of the measure.

Next to be programmed is the SD—to sound on "two," on "four" and on "four-and" in the measure:

Start on.

4x black pushbutton.
1x red pushbutton.
7x black pushbutton.
1x red pushbutton.
1x black pushbutton.
1x red pushbutton.
1x black pushbutton, LED goes on.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
BD	X	0	0	0	0	0	0	0	X	0	0	0	0	0	0	0
SD	0	0	0	0	X	0	0	0	0	0	0	0	X	0	X	0

Start off.

The BD will sound on the first and ninth steps while entering the SD. This will always be the case when "overdubbing" a new instrument—the instruments previously recorded will sound as you "walk" through the steps.

For playback follow same procedure as above.

Programming LT/MT/HT

Programming the toms is somewhat different.

A "real drummer" will rarely hit more than one tom at the same time. With the MFB 512 it's not possible either to have two or three toms sounding at the same step. If two or three toms are to be used in a pattern, it is necessary to switch between the different sounds (LT/MT/HT) during programming with the Multi-Function control.

An Example

Three different toms are to sound on the first three steps of a pattern. First HT, then MT, then LT: Record switch to REC.R., Multi-Function control to "HT7." **Start** on.

1x red pushbutton.
Set Multi-Function control to "MT7."
1x red pushbutton.
Set Multi-Function control to "6LT."
1x red pushbutton.

Start off. (The remaining steps don't have to be programmed with rests. The rests should have already been if the pattern was "cleared"—erased—before new programming.)

Programming CY/OH/HH

Like the toms, the cymbal and hi-hat sounds cannot sound simultaneously. During programming it is necessary to switch between them using the Multi-Function control.

IMPORTANT: Only when the Multi-Function control is in position "HH6" can any or all of the three be erased.

In programming a pattern, one must avoid entering the instruments A/BD/SD/HC/HT/HH on the same step. This combination makes an automatic reset: the computer will read the step as a signal to end the pattern and begin again from the first step.

IMPORTANT: In a pattern containing a previously programmed reset (entered with "R8" from the Multi-Function control), the reset occupies an extra step after the end of the pattern. For example, in a 3/4 measure of 12 steps, the reset falls on step No. 13. Therefore, when entering instruments into the pattern, step No. 13 must be carefully avoided. An instrument on step No. 13 will erase the reset.

Programming a Chain

The MFB 512 allows the combination of patterns (measures) in any sequence or order to form Chains. Eight chains are available, each with a capacity of 256 measures. Eight complete songs can thus be stored in the MFB 512, complete with count-ins, breaks, refrains, time-signature changes, fill-ins, etc.

The eight different chains are selected with the Multi-Function control.

Programming is as follows: Record switch to REC.C. The Multi-Function control set to one of the eight positions corresponding to chains 1-8 (for example, "2BD"). Select the number of the first pattern in the chain with pattern selectors F-A. **Start** on. Press the red pushbutton once to enter the first pattern. Select the next pattern in the chain with pattern selectors F-A. Press the red pushbutton to enter. Continue in this manner until all the patterns are entered in the chain. After the last pattern press the black pushbutton. (This programs a reset; in playback, when the MFB 512 reaches the last pattern, it will start automatically again from the beginning.) **Start** off.

An Example

Chain No. 1 is to contain four different patterns. Each pattern is one measure long, and the chain is to have 12 measures in all.

Set Multi-Function control to the desired chain No.: "1A". Record switch to REC.C. The Volume control must be on, as during all other functions except Mistake-Correction (see below). With pattern selectors F-A choose the first pattern: for this example, rhythm pattern No. 1. All pattern selectors set to "0". Measure switch to "I". **Start** on.

Rhythm pattern No. 1 is to play four times. Press the red pushbutton four times. Fill-in pattern No. 1 now comes twice. Pattern selectors F-A remain in the same position, but the Measure switch is changed to "II" for the selection of the fill-in instead of the rhythm pattern. Press the red pushbutton twice.

Next comes rhythm pattern No. 1 twice again. Set Measure switch to "I", press red pushbutton two times.

Now come rhythm patterns No. 2 and No. 3, two times each. Set pattern selector A to "4"—B to F remain at "0"—and press the red pushbutton two times to enter rhythm pattern No. 2. Now set pattern selector B to "4" and all others to "0" and enter rhythm pattern No. 3 twice by pressing the red pushbutton two times.

All twelve patterns are now programmed into your twelve measure chain (you could continue to 256 measures per chain if wanted to!). A reset is needed to insure that in playback the chain will repeat from the beginning after playing all twelve patterns. Simply press the black pushbutton once, and the reset is programmed. **Start** off.

The following has been programmed in chain No. 1:

F	E	D	C	B	A	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	Fill In
0	0	0	0	0	0	Fill In
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	1	
0	0	0	0	1	0	
0	0	0	0	1	0	

Reset

Playback

To hear the chain, set the Record switch to the middle (playback) position. **Start** on. The chain will play. The LED's over the pattern selectors F-A indicate which pattern No. is playing during the chain.

Mistake Correction

If an incorrect pattern No. is programmed into the chain, it is possible to correct it without reprogramming all the patterns: Volume control off, Record switch to REC.C. **Start** on. Press the red pushbutton as many times as it takes to reach the false pattern (indicated by the LED's over the pattern selectors F-A). Now select the correct pattern, turn Volume control on and press the red pushbutton once. **Start** off.

F	E	D	C	B	A	Rhythmus	Tempo	Takt
0	0	0	0	0	0	Walzer		3/4
0	0	0	0	0	1	Foxtrott		4/4
0	0	0	0	1	0	Marsch I		2/4
0	0	0	0	1	1	Cha-Cha I		4/4
0	0	0	1	0	0	Tango		4/4
0	0	0	1	0	1	Beat		4/4
0	0	0	1	1	0	Slow Beat		4/4
0	0	0	1	1	1	Marsch II		4/4
0	0	1	0	0	0	Swing		4/4
0	0	1	0	0	1	Shuffle		4/4
0	0	1	0	1	0	Cha-Cha II		4/4
0	0	1	0	1	1	Rumba		4/4
0	0	1	1	0	0	Samba		4/4
0	0	1	1	0	1	Bossa Nova		4/4
0	0	1	1	1	0	Beguine		4/4
0	0	1	1	1	1	Bajon		4/4
0	1	0	0	0	0	Rock I		4/4
0	1	0	0	0	1	Rock II		4/4
0	1	0	0	1	0	Rock III		4/4
0	1	0	0	1	1	Rock IV		4/4
0	1	0	1	0	0	Hard Rock I		4/4
0	1	0	1	0	1	Hard Rock II		4/4
0	1	0	1	1	0	Punk Rock I		4/4
0	1	0	1	1	1	Punk Rock II		4/4
0	1	1	0	0	0	Slow Rock I		6/8
0	1	1	0	0	1	Slow Rock II		6/8
0	1	1	0	1	0	Country Rock I		4/4
0	1	1	0	1	1	Country Rock II		4/4
0	1	1	1	0	0	Slow Blues I		4/4
0	1	1	1	0	1	Slow Blues II		4/4
0	1	1	1	1	0	Boogie I		4/4
0	1	1	1	1	1	Boogie II		4/4
1	0	0	0	0	0	Disco I		4/4
1	0	0	0	0	1	Disco II		4/4
1	0	0	0	1	0	Disco III		4/4
1	0	0	0	1	1	Disco IV		4/4
1	0	0	1	0	0	Latin Rock I		4/4
1	0	0	1	0	1	Latin Rock II		4/4
1	0	0	1	1	0	Latin Rock III		4/4
1	0	0	1	1	1	Latin Rock IV		4/4
1	0	1	0	0	0	Heavy Rock I		4/4
1	0	1	0	0	1	Heavy Rock II		4/4
1	0	1	0	1	0	Soft Rock		4/4
1	0	1	0	1	1	Latin Rock V		4/4
1	0	1	1	0	0	Funk Rock I		4/4
1	0	1	1	0	1	Funk Rock II		4/4
1	0	1	1	1	0	Funk Rock III		4/4
1	0	1	1	1	1	Funk Rock IV		4/4
1	1	0	0	0	0	Reggae I		4/4
1	1	0	0	0	1	Reggae II		4/4
1	1	0	0	1	0	Reggae III		4/4
1	1	0	0	1	1	Reggae IV		4/4
1	1	0	1	0	0	Funk Rock V		5/4
1	1	0	1	0	1	Funk Rock VI		5/4
1	1	0	1	1	0	Funk Rock VII		7/8
1	1	0	1	1	1	Funk Rock VIII		15/8
1	1	1	0	0	0	Take Five		5/4
1	1	1	0	0	1	Jazz Rock I		6/8
1	1	1	0	1	0	Jazz Rock II		7/8
1	1	1	0	1	1	Jazz Rock III		11/8
1	1	1	1	0	0	High Life I		4/4
1	1	1	1	0	1	High Life II		4/4
1	1	1	1	1	0	Türk.Rhyth. I		4/4
1	1	1	1	1	1	Türk.Rhyth. II		4/4

Samba 4/4

	Rhythm Pattern																Fill-In Pattern															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A																																
B _D	X																X															
S _D		X																X														
H _C			X																X													
L _T				X																X												
M _T					X																X											
H _T						X																X										
C _H							X																X									
H _H								X																X								
G _T									X																X							
C _T										X																X						

Bossa Nova 4/4

[illegible]

Beauvire 4/4

[illegible]

Baion 4/4

[illegible]

High Life I 4/4

Rhythm Pattern																
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
BO	X															
SD																
HC																
LT																
MT																
HT																
CH																
HH																
CV																
R																

Fillin Pattern																
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
BO																
SD																
HC																
LT																
MT																
HT																
CH																
HH																
CV																
R																

Fill-in Pattern

High Life II 4/4

Rhythm Pattern																Fill-in Pattern																
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
BO										X																						
SD														X	X	X																
HC																																
LT													X																			
MT																																
HT																																
CH																																
HH															X																	
CV																																
R																																

Fill-in Pattern

Türk. Rhyth. I 4/4

Rhythm Pattern																Fill-in Pattern																
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
BO																																
SD																																
HC																																
LT																																
MT																																
HT																																
CH																																
HH																																
CV																																
R																																

Fill-in Pattern

Türk. Rhyth. II 4/4

Rhythm Pattern																Fill-In Pattern																
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
BO	X																X															
SD	X																X															
HG	X																X															
LT									X																							
MT																	X															
HT										X																						
CH													X																			
HH																	X															
CV																																
R																	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

Fill-in Pattern

Take Five 5/4

Rhythm Pattern																Fill-in Pattern																
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
BO																																
SD																																
HC																																
LT																																
MT																																
HT																																
CH																																
HH																																
CV																																
CR																																

Fill-in Pattern

Jazz Rock I 6/8

Rhythm Pattern																Fill-In Pattern																
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
BO	X																X	X														
SD																				X											X	
HC																																
LT																																
MT																																
HT																																
CH																																
HH																																
CV																																
R																																

Fill-in Pattern

Jazz Rock II 7/8

Rhythm Pattern																Fill-in Pattern																
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
BO	X																X															
SD																				X												
HC																																
LT																																
MT																																
HT																																
CH																																
HH																																
CV																																
R																																

Fill-in Pattern

Jazz Rock III 11/8

Rhythm Pattern																Fill-In Pattern																
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
BO																																
SD																																
MC																																
LT																																
MT																																
CH																																
HH																																
CV																																
R																																

Fill-in Pattern

Hard Rock I 4/4

[illegible]

Hard Rock II 4/4

[illegible]

Punk I 4/4

[illegible]

Punk II 4/4

[illegible]

Rock | 4/4

[illegible]

Rock II 4/4

[illegible]

Rock III 4/4

[illegible]

Rock IV 4/4

[illegible]

Slow Rock 1 6/8

[illegible]

Slow Rock II 6/8

[illegible]

Country Rock | 4/4

[illegible]

Country Rock II 4/4

[illegible]

Funk Rock I 4/4

Rhythm Pattern															
Fill-In Pattern															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A															
B															
D															
S															
D															
H															
C															
H															
T															
M															
T															
H															
C															
H															
H															
C															
Y															
R															

Funk Rock II 4/4

Rhythm Pattern															
Fill-In Pattern															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A															
B															
D															
S															
D															
H															
C															
H															
T															
M															
T															
H															
C															
H															
H															
C															
Y															
R															

Funk Rock III 4/4

Rhythm Pattern															
Fill-In Pattern															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A															
B															
D															
S															
D															
H															
C															
H															
T															
M															
T															
H															
C															
H															
H															
C															
Y															
R															

Funk Rock IV 4/4

Rhythm Pattern															
Fill-In Pattern															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A															
B															
D															
S															
D															
H															
C															
H															
T															
M															
T															
H															
C															
H															
H															
C															
Y															
R															

Heavy Rock I 4/4

Rhythm Pattern															
Fill-In Pattern															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A															
B															
D															
S															
D															
H															
C															
H															
T															
M															
T															
H															
C															
H															
H															
C															
Y															
R															

Heavy Rock II 4/4

Rhythm Pattern															
Fill-In Pattern															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A															
B															
D															
S															
D															
H															
C															
H															
T															
M															
T															
H															
C															
H															
H															
C															
Y															
R															

Soft Rock 4/4

Rhythm Pattern															
Fill-In Pattern															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A															
B															
D															
S															
D															
H															
C															
H															
T															
M															
T															
H															
C															
H															
H															
C															
Y															
R															

Latin Rock V 4/4

Latin Rock I 4/4

Rhythm Pattern																Fill-In Pattern																
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
BO	X																															
SD									X																							
HC									X																							
LT																																
MT																																
HT																																
CH																																
HH																																
CV																																
R																																

Fill-in Pattern

A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
BO																
SD																
HC																
LT																
MT																
HT																
CH																
HH																
CV																
R																

Latin Rock II 4/4

Rhythm Pattern																Fill-In Pattern																
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
BO	X								X						X																	
SD																																
HC					X	X							X	X							X	X										
LT																																
MT							X					X									X											
HT																																
CH							X					X																				
HH																																
CV									X				X																			
R																																

Fill-in Pattern

A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
BO																
SD																
HC																
LT																
MT																
HT																
CH																
HH																
CV																
R																

Latin Rock III 4/4

Rhythm Pattern																Fill-in Pattern																
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
BO																																
SD																																
HC																																
LT																																
MT																																
HT																																
CH																																
NH																																
CV																																
R																																

Fill-in Pattern

A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
BO																
SD																
HC																
LT																
MT																
HT																
CH																
HH																
CV																
R																

Latin Rock IV 4/4

Rhythm Pattern															Fillin Pattern																	
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
BO	X																															
SD																																
HC																																
LT																																
MT																																
HT																																
CH																																
HH																																
CV																																
R																																

Fill-in Pattern

A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
BO																
SD																
HC																
LT																
MT																
HT																
CH																
HH																
CV																
R																

Disco I 4/4

Rhythm Pattern																Fill-In Pattern																
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
BD	X																X															
SD								X										X														
HC												X							X													
LT																																
MT																																
HT																																
CH																																
HH																																
CV																																
R																																

Fill-in Pattern

A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
BO																
SD																
HC																
LT																
MT																
HT																
CH																
HH																
CV																
R																

Disco II 4/4

Rhythm Pattern																Fill-in Pattern																
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
BO	X																															
SD									X																							
HC												X	X																			
LT														X	X																	
MT																X																
HT																	X															
CH																																
HH																																
CV																																
R																																

Fill-in Pattern

A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
BO																
SD																
HC																
LT																
MT																
HT																
CH																
HH																
CV																
R																

Disco III 4/4

Funk Rock V 5/4

Rhythm Pattern															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A															
BD	X														
SD															
HC															
LT															
MT															
HT															
CH															
HH															
CY															
R															

Funk Rock VI 5/4

Rhythm Pattern															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A															
BD															
SD															
HC															
LT															
MT															
HT															
CH															
HH															
CY															
R															

Funk Rock VII 7/8

Rhythm Pattern															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A															
BD															
SD															
HC															
LT															
MT															
HT															
CH															
HH															
CY															
R															

Funk Rock 15/8

Rhythm Pattern															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A															
BD															
SD															
HC															
LT															
MT															
HT															
CH															
HH															
CY															
R															

Reggae I 4/4

Rhythm Pattern															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A															
BD															
SD															
HC															
LT															
MT															
HT															
CH															
HH															
CY															
R															

Reggae II 4/4

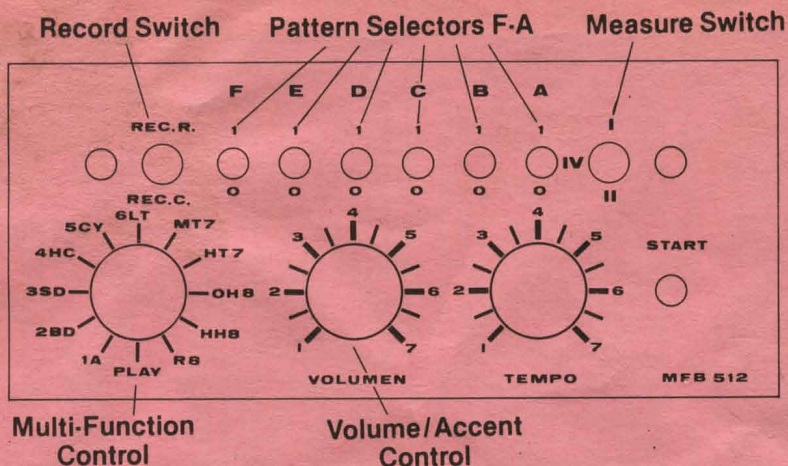
Rhythm Pattern															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A															
BD															
SD															
HC															
LT															
MT															
HT															
CH															
HH															
CY															
R															

Reggae III 4/4

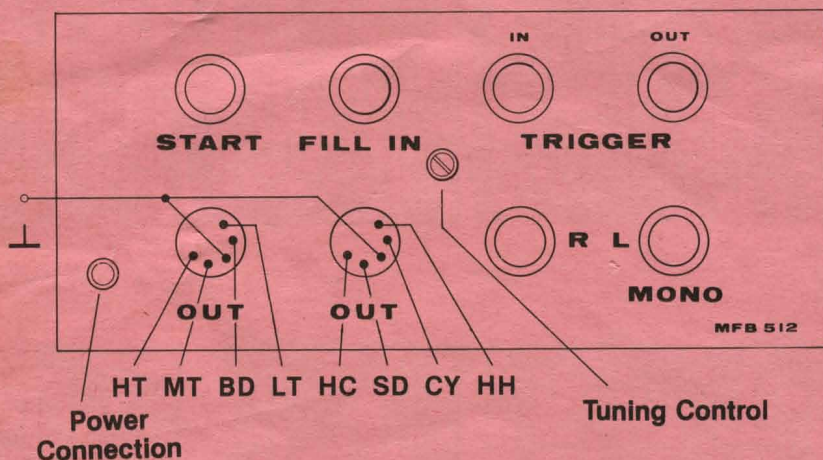
Rhythm Pattern															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A															
BD															
SD															
HC															
LT															
MT															
HT															
CH															
HH															
CY															
R															

Reggae IV 4/4

Rhythm Pattern															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A															
BD															
SD															
HC															
LT															
MT															
HT															
CH															
HH															
CY															
R															



Front



Back

Specifications:

Memory capacity: 128 memory banks of 16 steps each. Eight chains of 256 measures each.
 Outputs: Mono/Stereo, 8 individual instrument outputs ca. 2 V_{ss}/3KOhm
 Trigger in: min +1V max +20V.
 Trigger out: +5V/10KOhm
 Power requirement: 12 Volt ca. 120 mA
 Dimensions: 19.5 x 13.5 x 7 cm
 Contains: 53 integrated circuits, 8 transistors, 21 diodes.

Accessories:

Footswitch FS-1
 Foot Pushbutton FT-1
 Adaptor Cable A-1

Your MFB-Dealer