

Introduction

The MFB-602 is a programmable monophonic Step-Sequencer. There are 8 sets, each including 8 sequences with up to 64 steps. The note range is 2 ½ octaves with individual notelengths and rests. In addition 8 songs with up to 64 sequences can be programmed. In order to control newer and older Synthesizers, the MFB-602 offers MIDI-In/Out as well as CV/Gate-Out.

Setup

Plug the included power adapter into the Power socket in the rear. Connect MIDI-Out to the MIDI Input of your Synthesizer or Computer. The CV/Gate output can be used in parallel. Push **On/Off** to switch the MFB-602 on. The display will read „S00,„

There are two status modes:

Sequence-Mode (left display will show = S)

Compose-Mode (left display will show = C).

Toggle between Sequence- and Compose mode with **Mode/+1**.

Sequencer

Play starts and stops the sequencer. **Tempo** will adjust the speed of the playback.

Only one set (with 8 sequences) is active at a time. To select this set, press one of the white keys **C1...C8** while switching the MFB-602 on.

Selecting a sequence in a set is easy: Press and hold **Bank/+1** and one of the white keys **C1...C8**.

You can use the whole keyboard (13 keys) to transpose the selected sequence in realtime.

Creating sequences

The pitch of a sequence step is defined with one of the 12 keys **C1...B7**. Shift up one octave by additionally pressing **Bank/+1**. **Mode/+2** will transpose up two octaves (highest pitch is F).

Hit **F#/P** to insert rests and **G5/R** to set the reset.

To adjust the duration of a step (note and rest) use the yellow button to the right. There are eight possible lengths.

LED indication:

Off	Off	Off	1/16 th note
On	Off	Off	1/8 th note
On	On	Off	dotted 1/8 th note
Off	On	Off	1/4 Note
Off	On	On	dotted 1/4 Note
Off	Off	On	1/2 Note
On	Off	On	1/4 Note glide (only CV/Gate)
On	On	On	1/1 Note

Hitting the yellow button will step forward through the notelengths, holding it for longer than a second will move a step backwards.

Hint: Programming can be speed up by reducing the choice of available notelengths from eight to four. This is done by switching the MFB-602 on while pressing and holding the right yellow switch. There will be only only four values 1/16, 1/8, 1/4 and 1/2 available until repetition of this procedure.

Recording a sequence

Use **Bank/+1** and **C1...C8** to select the sequence to record. **Record** enables note input. The display will indicate this with a dot next to „S,„

First select the notelength (yellow button) and then the pitch with **C1...B7** (and octave transpose). The following steps are entered in the same way. If steplength is not adjusted the previous value will be kept.

Insert rests with **Mode/+2** and **F#/P**. To define the reset of the sequence of less than 64 steps use **Mode/+2** and **G5/R**. If a reset is not defined the following steps of the previous programmed sequence will be kept.

Press **Record** to return to Play Mode. Hitting **Play** will playback the sequence.

Step Edit

Stepping through the sequence is possible with **C8/Step**. Every step is displayed in pitch while holding the key (0=C1...31=Reset) or in position. Use this feature in Record-Mode to correct faulty pitches. Simply step to the position and correct the note by reentering.

Hint: The MFB-602 offers 64 steps. Remember that these steps are not always equal to standard 16th notes in a 4/4 beat. It is possible to program Step 1 as an 8th note. This means that Step 2 will already be the 3rd unit in that measure.

Another example: A sequence consists of twelve 16ths and two 8th notes. To loop a complete measure set the reset after step 14.

For straight sequences simply sum up all steplengths and make sure the result matches the signature of your drumcomputer. For a full 4/4 bar your result has to be 16.

Of course you can set all kinds of signatures by placing the reset at any point you want. This makes it easy to create shifting or even polyrhythmic sequences in combination with other machines.

Steplengths:

1/16 note	1
1/8 note	2
1/4 note	4
1/2 note	8
1 full note	16

Compose mode

The MFB-602 can store eight combinations of up to 64 sequences. Each step can include a sequence and a transposition. As each sequence is combined with a transposition value there is no repeat function. So the same sequence repeated will use a step in compose mode.

Creating a compose

To switch to compose mode hit **Mode/+2**, the display will show C00. Select the storage destination by hitting **Bank/+1** followed by **C1...C8**. Press **Record** (the LED will display a dot) and enter any of the eight available sequences. For a transposition press and hold **Bank/+1** and any of the 12 note keys **C1...B7** first. Enter the number of the sequence **C1...C8** after. Finally set the reset by pressing **Mode/+2** and **G5/R** at the same time. Return to play mode by hitting **Record**.

MIDI Channel

To define the MIDI Channel press and hold the right yellow key for at least a second (in Play mode). Use the Tempo Knob to adjust the MIDI Channel. Releasing the key will save the settings.

MIDI Clock & DIN Sync

The MFB-602 offers three modes of Sync. „Internal,, sends MIDI Start, Stop and Clock. „Extern,, receives MIDI Start, Stop and Clock empfangen. In DIN-Sync the MFB-602 receives Start/Stop (Start = +5Volt) und Sync (96 impulses/bar). Switch between the three modes by pressing and holding A# while switching the MFB-602 on. External mode is visualized by the dot in the right part of the display, DIN-Sync Mode with a dot in the center.

CV and Gate

The CV-Out works with the most popular 1 Volt/Octave scale that is used by Moog, Roland, Sequential Circuits as well as newer modular systems from Doepfer, Technosaurus or Analogue Solutions.

As there is more than one system for Gate polarity and voltage it is possible to switch the MFB-602 between the following standards. Press and hold while switching on:

C#	positive polarity	(Moog, Roland)
D#	negative polarity	(Korg)
F#	Gate voltage 5 Volt	(Korg)
G#	Gate voltage 10 Volt	(Moog, Roland)

Settings will be remembered when switching the sequencer off.

Start and Trigger

The MFB-602 offers a Start- and Trigger Output to synchronise older MFB machines. This functions cannot be used in Sync Mode „DIN“ because the jack is used as input.

Start outputs 0 Volt while the sequencer is running, the Trigger Outputs sends positive triggers every 16th step.



Owners Manual

Digital Sequencer

MFB-602