
USER MANUAL

MIDI SEQUENCER+

VERSION 2

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Version	2.04
Date	February 2008

USA/Canada:



This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorientate or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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1 SAFETY

1.1 Safety precautions



- Place the MIDI sequencer on a stable surface or on the wooden stand (option).
- Switch the MIDI sequencer off when it is not in use.
- Do not place the MIDI sequencer in a damp area.
- Do not expose the MIDI sequencer to liquids.
- Follow the instructions and precautionary measures in this user manual.
- Keep this user manual with the MIDI sequencer.
- The MIDI sequencer may only be opened by a technician authorised by Johannus Orgelbouw. The MIDI sequencer contains static-sensitive components. The warranty expires if the MIDI sequencer is opened by a non-authorised person.
- The MIDI Sequencer+ has internal connections to both the MIDI IN- and MIDI OUT-port pins 1 and 3, for future purposes. Please do not apply any kind of phantom power or signals to these pins. Doing so may damage the Sequencer. If you plan to connect equipment, which sends signals or applies power to pins 1 and/or 3 (and if that functionality cannot be disabled) please use MIDI cables that only carries wires 2, 4 and 5.

1.2 Symbols in the manual



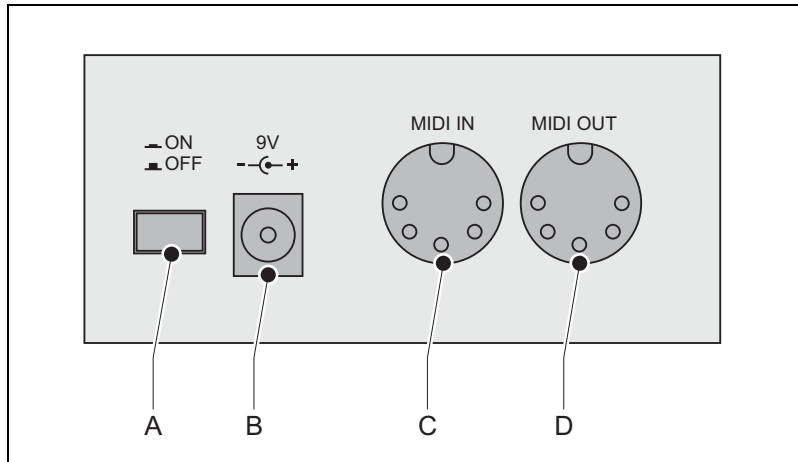
Warning or important information



Note

2 INSTALLATION

2.1 Placement and connection



1. Place the MIDI sequencer close to the musical instrument.
2. Make sure that the MIDI sequencer has been switched off. The on/off switch (A) is on OFF.
3. Connect the delivered MIDI cable to the MIDI OUT connection (D).
4. Connect the other end of the cable to the MIDI IN connection of the musical instrument.



Consult the manual of the musical instrument for information about the connections.

5. Connect the other delivered MIDI cable to the MIDI IN connection (C).
6. Connect the other end of the cable to the MIDI SEQ connection if the musical instrument is a Johannus organ.



Connect the cable to the MIDI OUT connection of the musical instrument if this is not a Johannus organ.

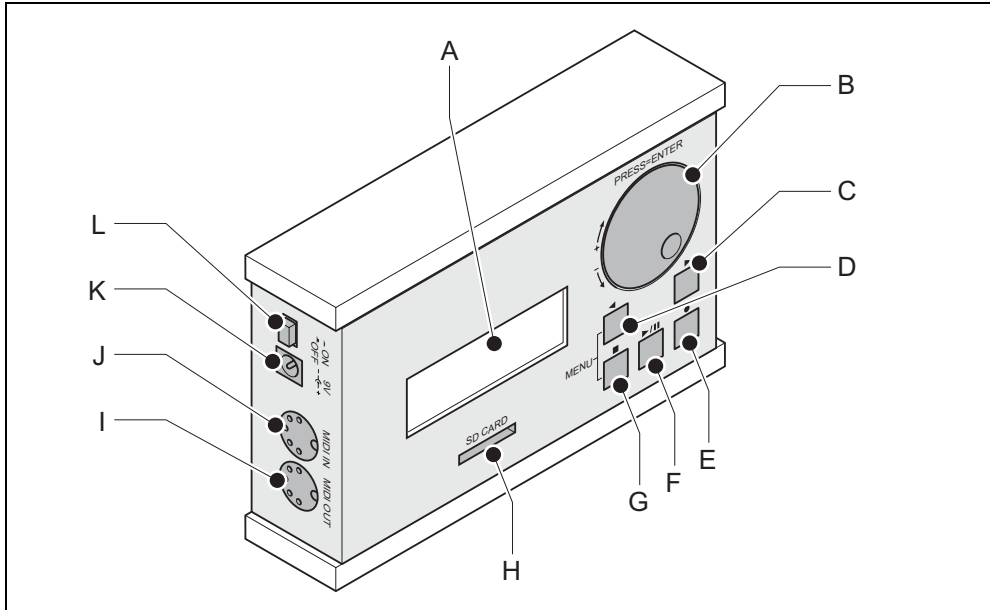
7. Make sure that the voltage of the delivered power adapter matches the voltage of the mains.
8. Connect the power adapter to the 9 V connection (B).

2.2 Switching on

1. Insert the delivered SD card into the SD card input.
2. Press the on/off switch. The `Play/Browse` screen will appear after a short time.

3 DESCRIPTION OF THE MIDI SEQUENCER

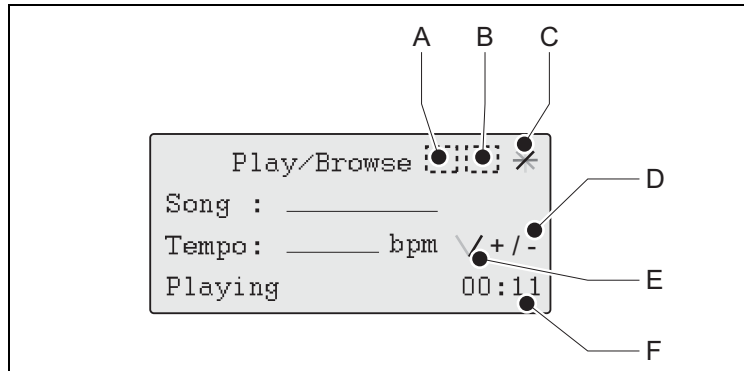
3.1 Overview of the main components



- | | | | |
|---|-------------|---|----------------------------------|
| A | Screen | G | Stop |
| B | Selector | H | SD card input |
| C | Arrow right | I | Connection MIDI OUT |
| D | Arrow left | J | Connection MIDI IN |
| E | Record | K | Connection for the power adapter |
| F | Play/pause | L | On/off |

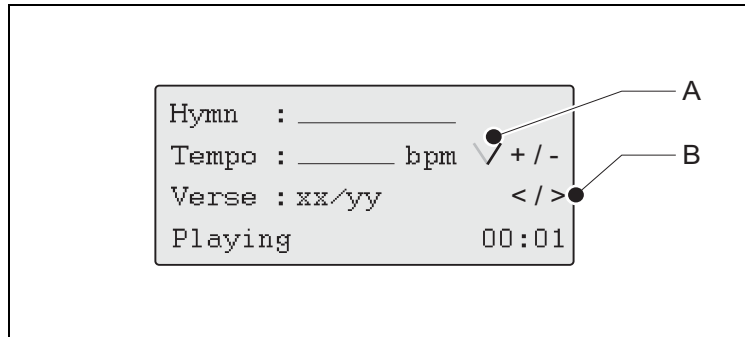
3.2 Overview of the screens

3.2.1 Play/Browse



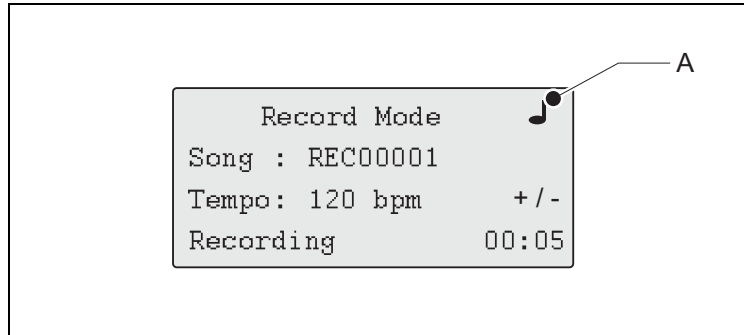
- **Song**: Shows the name of the selected MIDI file.
- **Tempo**: Shows the set tempo.
- **Stopped/Playing/Paused**: Shows the current status.
- **Repeat mode (A)**:
 - - : Repeat mode not active.
 - **R**: Repeats the selected MIDI file.
 - **RA**: Repeats all MIDI files.
- **Play mode (B)**:
 - - : Default play mode.
 - **HM**: The selected MIDI file plays in the Hymn Mode.
 - **PL**: A playlist has been detected. The MIDI files are played according to the programming of the playlist.
- **Busy indicator (C)**: Appears when MIDI sequencer is busy processing.
- **Change indicator +/- (D)**: Is behind the item that can be changed.
- **Metronome (E)**: Shows the rhythm.
- **Time (F)**: Shows the elapsed time.

3.2.2 Hymn Mode



- **Hymn:** Shows the name of the selected song.
- **Tempo:** Shows the tempo.
- **Verse: xx / yy**
 - **xx:** Shows *intro* or the number of the verse.
 - **yy:** Shows the set number of repetitions of the verse.
- **Stopped/Playing/Paused:** Shows the current status.
- **Metronome (A):** Shows the rhythm.
- **Arrow keys (B):** Are behind the item that can be changed. With the arrow keys you can either increase or decrease the number of verses.

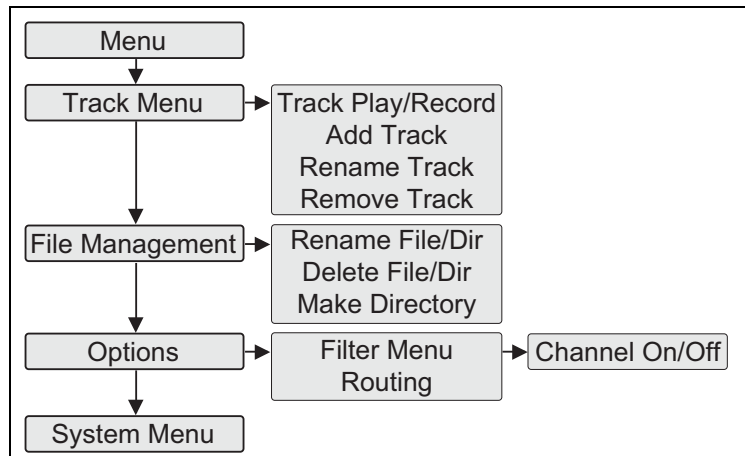
3.2.3 Record Mode



- **Song:** Shows [New song] or the name of the MIDI file last or correctly recorded.
- **Tempo:** Shows the tempo.
- **Stopped/Record pause/Recording/Stopped & MIDI Forward:** Shows the current status.
- **Musical note:** Appears when MIDI data is received or when recording has started.

3.2.4 Menu

The overview of the menu screens



Menu

- **Play/Browse:** Shows the `Play/Browse` screen.
- **Record mode:** Shows the `Record Mode` screen.
- **Track Menu:** Goes to the `Track Menu` screen.
- **File Management:** Goes to the `File Management` menu screen.
- **Options:** Goes to the `Options` menu screen.
- **System Menu:** Goes to the `System Menu` screen.

Track Menu

- **[Back]:** Returns to the main `Menu` screen.
- **Track Play/Record:** Shows the `Track Play/Record` screen.
- **Add Track:** Shows the `Add Track` screen.
- **Rename Track:** Shows the `Rename Track` screen.
- **Remove Track:** Shows the `Remove Track` screen.

File Management

- **[Back]:** Returns to the `Menu` screen.
- **Rename File/Dir:** Shows the `Rename File/Dir` screen in which the current file or directory can be renamed.
- **Delete File/Dir:** Shows the `Delete File/Dir` screen in which any file or directory can be removed from the SD card.
- **Make Directory:** Shows the `Make Directory` screen in which a new directory can be created.


Options

- **[Back]**: Returns to the Menu screen.
- **Auto Playlist (ON/OFF)**: Activates the Auto Playlist mode.
- **Hymn Mode (ON/OFF)**: Activates the Hymn Mode.
- **Metronome (ON/OFF)**: Activates the Metronome.
- **MIDI Forward (ON/OFF)**: Redirects MIDI IN to MIDI OUT. This only works in the Record Mode screen while recording and in the Stopped & MIDI Forward state.
- **Repeat (ONE/ALL/OFF)**: ONE repeats the same MIDI file and ALL repeats all MIDI files.
- **Filter Menu**: Goes to the Filter Menu screen.
- **Routing Menu**: Goes to the Routing Menu screen.

Filter Menu

- **[Back]**: Returns to the Options menu screen.
- **Stops/Instr. (ON/OFF)**: Activates the stop and instrument changes.
- **Tempo (ON/OFF)**: Activates tempo changes.
- **Volume (ON/OFF)**: Activates general volume changes.
- **Channel ON/OFF**: Goes to the Channel ON/OFF screen.

Channel ON/OFF

- **[Back]**: Returns to the Filter menu screen.
 - **Channel 1-16 (ON/OFF)**: Activates the MIDI channels 1-16.
- 
 - The Channel ON/OFF mode relates to the original channels.
 - The Channel ON/OFF mode is active when playing a MIDI file and when forwarding MIDI data (MIDI Forward mode). The setting of the MIDI channels does not have any influence on the record mode.

Routing Menu

- **[Back]**: Returns to the Options menu screen.
- **MIDI Routing (ON/OFF)**: Activates the possibility to move a channel to another channel. It also gives the possibility to split a channel into two channels at a given point (Split Point). The tones above and below a split point go to different channels.



The MIDI Routing mode is operational when playing a MIDI file and when forwarding MIDI data (MIDI Forward mode). The setting of the MIDI channels does not have any influence on the record mode.

-
- **Channel** (1-16): displays the channel for which the options below are valid. This channel number (and the settings below) can be changed with the Arrow keys.
 - **Channel Out** (1-16): Selects the channel to which the channel is moved.
 - **Split** (ON/OFF): Enables the possibility to assign a split point.
 - **Split Point** (sscC - g6): Selects the split point.
 - **Channel Out Upper** (1-16): Notes above and including the split point will be send to this channel.
 - **Ch. Out Lower** (1-16): Notes below the split point will be send to this channel.

System Menu

- **[Back]**: Returns to the main Menu screen.
- **Sort Files** (ON/OFF): Sequencer will sort files and directories alphabetically.
- **System Real Tim Messages** (ON/OFF): Activates the System Real Time environment, which will be explained in Appendix B.
- **Factory Preset**: Restores the original factory settings. See § 6.2.
- **Recording Counter Reset**: Resets the RECxxxx.mid number to 1.
- **Update Firmware**: Updates the current firmware if a valid `FIRMWARE.BIN` file is present in the root directory of the SD-card.

4 OPERATION

4.1 Browse

4.1.1 Selector

- 1 Turn the selector to the right to go forward / downward.
- 2 Turn the selector to the left to go back / upward.
- 3 Press the selector to select the menu, directory or song.

4.1.2 Navigation in the Play/Browse screen

Directories can contain the following content:

Content	Example
MIDI song	REC001
Subdirectory, which is marked by < and >	<SUBDIR01>
Back command, to leave the subdirectory	[BACK]
Playlist, which is marked by [and]	[PLAYLIST]

Turn the selector to browse through the directory and select an item by pressing the selector.

4.2 Screen selection and settings

The Play/Browse screen will appear after the MIDI sequencer has been switched on.

4.2.1 Select screen through key combinations

1. Press the following keys to open another screen.

Screen	Key combination
Play/Browse	Stop key + Play/pause key.
Record Mode	Stop key + Record key
Menu	Stop key + Left arrow key

4.2.2 Select screen through the main Menu

1. Go to the main Menu screen.
2. Turn the selector to select a screen.
3. Press the selector to go to the selected screen.

4.2.3 Changing the settings

1. Turn the selector to select a setting.
2. Press the selector or press the arrow keys to change a setting.

4.3 Play

4.3.1 Play MIDI file

1. Go to the *Play/Browse* screen.
2. Turn the selector to select a MIDI file.
3. Press the *Play/pause* key. The MIDI sequencer starts playing the MIDI file.
4. Change options while playing. See § 4.3.4.
5. Wait until *stopped* appears on the screen. The MIDI file has been played.

4.3.2 Play Hymn MIDI file



Playing the Hymn MIDI file is only possible when the *Hymn Mode* is active. See § 3.2.2 and § 3.2.4.

1. Go to the *Play/Browse* screen.
2. Turn the selector to select a Hymn MIDI file. A Hymn MIDI file begins with an *I_* (intro) or a *V_* (verse). The play mode *HM* is displayed on the screen.



When selecting an intro, the associated verse will start immediately after the intro has been played. When selecting a verse, only the verse will be played.

3. Press the *Play/pause* key or the selector. The *Hymn Mode* screen appears. The MIDI sequencer starts playing the MIDI file.
4. Press the arrow keys to change the number of times that a verse is to be played.
5. Change options while playing. See § 4.3.4.
6. Wait until *stopped* appears on the screen. The MIDI file has been played.

4.3.3 Play playlist file



Playing the playlist file (`playlist.txt`) is only possible when the Playlist mode is active. See § 3.2.1 and § 3.2.4.

If Auto Playlist is ON, the sequencer will immediately go to the playlist, even if it is situated in a subdirectory.

The file name of the playlist has to be `playlist.txt`. Other file names are not allowed, because the sequence will not find the playlist with another file name

1. Insert an SD card containing a playlist into the SD card input. Browse to the playlist. The play mode `PL` appears on the `Play/Browse` screen.
2. Press the Play/pause key. The MIDI sequencer starts playing the playlist.
3. Change options while playing. See § 4.3.4.
4. Wait until the music stops.
 - A programmed stop in the playlist: Press the Play/pause key to resume playing.
 - End of `playlist` appears on the screen: The playlist has been played.
5. It is also possible to exit the playlist. Turn the selector to the left until it says [`EXIT`]. Press the selector to exit the playlist.

4.3.4 Options while playing

Stop playing

1. Press the Stop key.
2. Press the Play/pause key to start playing again.

Pause the playing

1. Press the Play/pause key. The playing is interrupted.
2. The playing is resumed by pressing the Play/pause key.

Changing the tempo

1. Turn the selector to change the `Tempo`.

4.4 Record

4.4.1 Record a Johannus organ

1. Insert an SD card into the SD card input.
2. Go to the *Record Mode* screen (when in *Play/Browse* screen, just press **REC** key). [*New song*] appears, indicating that a new song will be recorded.
3. Change tempo with the selector (option).
4. Set the general volume of the organ.
5. Set the expression pedal(s) of the organ.
6. Program the required registration in preset on the organ (option).
7. Set all stops **OFF** (if needed, press **0**-key for one second)
8. Press the **REC** key. The sequencer will go in *Record Pause* mode.



The Sequencer waits for a MIDI event now. If you want to record silence at the beginning, press the *Play/Pause* key to start the recording manually.

9. Press the **0**-key again for one second: the MIDI sequencer will record the settings of the general volume and expression pedals.
10. Switch on the stops (manually or with a preset).
11. Play the piece of music on the organ.
12. Press the **Stop** key. *Stopped* appears on the screen.
13. Press the *Play/Pause* key to listen to the recording.



After listening, press **REC** to go back to *Record Mode*.

4.4.2 Record another musical instrument

1. Insert an SD card into the SD card input.
2. Go to the *Record Mode* screen.
3. Press the **Recording** key. The number in the name will automatically be increased by 1. The sequencer will go in *Record Pause* mode
4. Make the required settings on the musical instrument.
5. Play the piece of music on the musical instrument.
6. Press the **Stop** key. *Stopped* appears on the screen.
7. Press the *Play/pause* key to listen to the recording.

4.5 Using the MIDI Forward mode



Do not activate the MIDI Forward mode when MIDI IN and MIDI OUT are connected to the same device. This may result in undesired effects, such as flashing stops.

1. Go to the Menu Mode screen.
2. Turn the selector to select the Options screen.
3. Press the selector to go to the Options screen.
4. Activate the MIDI Forward mode.
5. Go to the Record Mode screen.
6. Stopped&MIDI Forward appears on the screen. The MIDI IN signal is put through to the MIDI OUT output, also during recording.

4.6 Programming

4.6.1 Create a Hymn MIDI file

1. Record a verse. See § 4.4.
2. Record an intro. See § 4.4.
3. Go to the main Menu screen.
4. Select the Rename file mode.
5. Rename the recording of the intro such, that it begins with an I_ (I stands for Intro). Example: I_SONG1.
6. Rename the recording of the verse such, that it begins with a V_ (V stands for Verse). The text must be the same as the text of the intro. Example: V_SONG1.

4.6.2 Create a playlist

1. Create a text file with the name playlist.txt on a computer.



For Windows® users: Make use of the notepad.

2. Type the playlist in accordance with the following definition:

Nomenclature	Explanation	Example
;comment	Comments on the playlist	;comments on playlist
SONG.MID	SONG.MID is played once.	SONG1.MID
SONG.MID;X	SONG.MID is played X times.	STOP SONG2.MID;1;120
SONG.MID;X;Y	SONG.MID is played X times at Y% of the speed of the original recording.	SONG3.MID;2;90 STOP SONG4.MID;5
STOP	The playlist stops playing until the Playing/pause key is pressed.	END
END	The end of the playlist.	

3. Save the text file.
4. Copy the text file to the SD card.



A directory can only contain one playlist.

4.7 Multi Track

4.7.1 Record a track

1. Go to the **Track Play/Record** screen (see § 3.2.4)
2. Select a song with the selector.
3. Select a track with the arrow keys.
4. Make sure all stops are OFF.
5. Press **REC** to start recording the selected track while playing all other tracks.



If the track already contains MIDI data, these data will be overwritten!

4.7.2 Play a track

1. Go to the `Track Play/Record` screen (see § 3.2.4)
2. Select a song with the selector.
3. Select a track with the arrow keys.
4. Press `Play` to play the selected track.

4.7.3 Add a track

1. Go to the `Add Track` screen (see § 3.2.4)
2. Select the song to which a new track will be added.
3. Press `REC` to continue (or `Stop` to cancel).
4. Create name by changing selected character (underlined) with the selector.
5. Press the right arrow key for the next character and press the left arrow key to go back one character.
6. When finished, press `REC` to add the track with the given name or press `STOP` to cancel.

4.7.4 Rename a track

1. Go to the `Rename Track` screen (see § 3.2.4)
2. Select a song with the selector.
3. Select a track with the arrow keys.
4. When finished, press `REC` to continue or press `Stop` to cancel.
5. Change selected character with the selector.
6. Press the right arrow key for the next character and press the left arrow key to go back one character.
7. When finished, press `REC` to continue or press `Stop` to cancel.

4.7.5 Remove a track

1. Go to the `Remove Track` screen (see § 3.2.4)
2. Select a song with the selector.
3. Select a track with the arrow keys.
4. Press `REC` to remove the selected track or press `Stop` to cancel.

4.8 File Management

4.8.1 Rename File / Directory

1. Go to the `Rename File/Dir` screen
2. Select a song with the selector.
3. Press `REC` to continue (or `Stop` to cancel).
4. Change selected character with the selector.
5. Press the right arrow key for the next character and press the left arrow key to go back one character.
6. When finished, press `REC` to continue or press `Stop` to cancel.

4.8.2 Delete File / Directory

1. Go to the `Delete File/Dir` screen
2. Select a file or directory with the selector.
3. Press `REC` to remove the selected file or directory or press `Stop` to cancel.

4.8.3 Make Directory

1. Go to the `Make Directory` screen
2. Select a character with the selector.
3. Press the right arrow key for the next character and press the left arrow key to go back one character. The path in which the new directory will be stored is shown at the third line.
4. Press `REC` to confirm or press `Stop` to cancel.

5 MAINTENANCE, TROUBLESHOOTING AND WARRANTY

5.1 Housing maintenance



■ Do not clean the housing with water.

1. Clean the housing with a lint-free cloth.

5.2 Troubleshooting

Overview

Message/problem	Meaning/cause	Solution
SD card not found	There is no SD card in the SD card input.	Insert an SD card.
Card locked!	You are trying to make a recording on a write-protected SD card.	The SD card has a slide. Put the slide in the unlocked position.
Disk full!	The SD card is full.	Remove some MIDI files or insert an empty SD card.
Read error	The file cannot be read.	Replace the file.
File not found	The file does not exist or has a faulty reference.	Remove the file or the faulty reference.
Maximum record files	The maximum number of record files has been reached. The maximum is 99999.	Rename or remove existing recordings the names of which begin with REC and/or reset Record Counter.
End of playlist	You press play while the playlist has reached the end.	Go back to the beginning of the playlist using the selector.
Stop point	You have selected a stop point in the playlist and pressed play.	Select a song.

Message/problem	Meaning/cause	Solution
New SD card found reading	The MIDI sequencer is busy reading the SD card. If the reading takes more than a few seconds, there may be a contact problem.	Wait until the MIDI sequencer is ready. Remove the SD card. Switch the MIDI sequencer off and on again. Insert the SD card again.
The stops on the organ do not switch on or the stops are flashing.	The connections MIDI IN and MIDI OUT have been connected to the same device and the MIDI Forward mode is on.	Switch off the MIDI Forward mode. See § 3.2.4.
You cannot find certain MIDI files.	The MIDI sequencer may still be in a playlist (the screen shows PL).	Switch off the Playlist mode. See § 3.2.4.
During playing the stops, the tempo changes or the general volume are not working.	The Stops/Instr., Tempo and/or Volume modes may be OFF.	Set the mode involved to ON. See § 3.2.4.
MIDI error. More than 39 tracks! [Press any key]	Maximum number of tracks is reached.	MIDI sequencer does not support more than 39 tracks.

5.3 Warranty

The conditions are specified in the warranty certificate. The warranty expires if changes or repairs are made to the MIDI Sequencer+ by persons or organisations that are not authorised by Johannus Orgelbouw.

6 ANNEX A: SETTINGS

6.1 Technical specifications

Description	Specification
Dimensions (l x w x h)	190 x 120 x 55 mm (7 3/8 x 2 1/8 x 4 5/8 inch)
Weight	710 grams (1 lb 9 oz)
Power	9 V 1A
MIDI	In, Out/Thru
MIDI play format	MIDI 0 and MIDI 1
MIDI record format	MIDI 1
MIDI cable	2,5 m (2 pieces)
SD card	128 MB (maximum size 1 GB)
Wooden stand	Optional
Maximum number of MIDI tracks	39 tracks

6.2 Factory settings

Screen	Mode	Factory setting
Options	Auto playlist	ON
	Hymn Mode	ON
	Metronome	ON
	MIDI Forward	OFF
	Repeat	OFF
Routing	MIDI Routing	OFF
Filter	Stops/Instr.	ON
	Tempo	ON
	Volume	ON
Channel ON/OFF	Channel 1-16	ON

6.3 System settings

Screen	Mode	Factory setting
System Menu	Sort Files	ON
	System Real Time	ON
	Factory Preset	

7 ANNEX B: MIDI IMPLEMENTATION

7.1 MIDI Implementation Chart

Function		Transmitted	Recognised	Remarks
Channel		1-16	1-16	
Note Number		0	0	
Velocity	Note On	0	0	
	Note Off	0	0	
After Touch	Key	0	0	
	Channel	0	0	
Pitch Bend		0	0	
Control Change		0	0	
Program Change		0	0	
System Exclusive		0	0	
System Common		x	x	
System Real Time Commands	Clock	0	x	
	Start	0	0	
	Stop	0	0	
	Continue	0	0	
Aux Messages	All Notes Off	0	0	
	Active Sensing	0	x	
	System Reset	x	x	
Notes				

0 Yes, implemented

x No, not implemented

7.2 System Real Time Messages

7.2.1 Play/Browse mode

When the sequencer is in Play/Browse mode and no song is playing yet:

1. If a Start (0xFA) or Continue (0xFB) message is received: The file shown on screen will be opened and played from the beginning (analogue to the `Play/Pause` button).
2. If again a Start or Continue message is received: The song will be paused (like the `Play/Pause` button).
3. If again a Start or Continue message is received: The song will be resumed from the point it was paused (like the `Play/Pause` button).
4. If a Stop (0xFC) message is received: The Sequencer will stop playing and the file will be closed (like the `Stop` button).

7.2.2 Record Mode

When the sequencer is in Record mode and is not recording yet:

1. If a Start (0xFA) message is received: The Sequencer will go into Record Pause (this is also possible by pressing `REC` button).
2. If again a Start message is received, or a Continue message, or MIDI event: Recording will start (analogue to the `Play/Pause` button, or a when a note is being played).
3. If a Stop (0xFC) message is received: The recording will be stopped (like the `Stop` button).
4. If after a recording a Continue message is received: The sequencer remains in Record Mode. The recorded song will be played back, so it can be heard without having to change the sequencer's mode.

7.2.3 Notes



The Sequencer can also be set in Record Pause manually with the `REC` button. When it receives a Start or Continue, it will directly start recording. This way only one Start message is responsible for the start of a recording.



The sequencer ignores Active Sensing (0xFE) and Clocks (0xF8) at its MIDI IN port.

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