MS8400 User Manual

MS8400 User Manual

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Safety/General Information

Copyright

Any resident content on the MS8400 System as well as this manual and any applicable documentation, is considered copyright by Syndyne Corporation.

Read the Entire Manual

Please read this entire manual before attempting to operate the MS8400.

Electric Shock Warning

Keep the MS8400 system away from water.

The Screen

The MS8405 touch screen was designed to be touched firmly using a finger. A stylus can be used, but it may wear the screen out faster than using your finger. Do not use any item sharper than a stylus or a finger. Long and/or sharp finger nails may also decrease the life of the touchscreen. Do not use a pen, pencil, marker, or other item that can mark on the screen. When cleaning, use a cloth dampened with a noncostic and residue free cleaning solution to lightly wipe the screen on the MS8405.

USB drives and devices

There are too many USB drives and devices available on the market to have tested them all. Although the majority of USB drives should work with the MS8400, we cannot gaurantee that all USB drives will work. If you have a problem when using a new USB drive that is not approved by Syndyne, make sure the same problem occurs using a Syndyne approved flash drive before attempting to contact Syndyne for support.

MIDI Files and Devices

Currently the MS8400 only plays MIDI type 0 single track files. MIDI type 1 files can be converted to type 0 files using a computer. The MS8400 should work with general MIDI devices, however some devices rely on non-standard MIDI messages which may cause undesired results. For more information on how your device sends and receives MIDI, please contact the device's manufacturer.

Static Warning

The Syndyne MS8400 System contains electrical components that are susceptible to damage by static disharge. To avoid damage, use antistatic handling materials and make sure you are well grounded at all times.

Basic Operations

This section covers the normal operation and basic functions of the features in the main menu. Please read this section in its entirety to have a comfortable understanding of how the system works.



Using Pistons

Setting a General Piston

For this example we are going to set the General Piston 1.

- 1. Make sure the organ is powered "On."
- 2. Make sure the organ is on the desired memory level.
- 3. Turn on the stops that are desired to be set on the General Piston 1.
- 4. Press in and hold the Set Piston
- 5. While still holding the Set Piston in, press in General Piston 1.
- 6. Release both Pistons.

Setting a Divisional Piston

For this example we are going to set the Great Piston 1.

- 1. Make sure the organ is powered "On."
- 2. Make sure the organ is on the desired memory level.
- 3. Turn on the stops that are desired to be set on the Great Piston 1.

(Note that only stops within the Great division will be set.)

- 4. Press in and hold the "Set" Piston
- 5. While still holding the "Set" Piston in, press in Great Piston 1.
- 6. Release both Pistons.

("Capture" is sometimes used instead of "Set")

General Cancel (Canceling all Stops & Blind Pistons)

Press the General Cancel Piston to turn all stops off. If your crescendo is on, the stops that are set on the crescendo will still play.

Memory Level Pistons (Optional Feature)

Some organs may include pistons that change memory levels. Pressing the Memory level Up Piston will increase the memory level. Pressing the Memory Level Down Piston will decrease the memory level. Memory levels will wrap up from 100 to 1 and back down from 1 to 100.

Transposer Pistons (Optional Feature)

Some organs may include pistons that change transposer levels. Pressing the transposer up piston will increase the transposer level. Pressing the transposer level down piston will decrease the transposer level. When the transposer reaches the maximum or minimum level of transposition, the transposer will "wrap". For example, if the organ transposer is at level +12 and transposer up is pressed, the transposer will wrap to position -12.

Performance Screen

The Performance Screen



The performance screen is customizable, but has been designed to put all the basic functions of the organ on a single screen. When playing the organ it is recommended to be on the performance screen.

1. Memory Level Controller: The Memory Level Controller displays and controls the combination action memory level. The large number in the center of the Memory Level Controller displays the current memory level of the organ. Pressing the Up arrow moves the memory level up one. Pressing the Down arrow moves the memory level down one. Pressing on the current memory level number display brings up a memory level keypad to enter a new memory level. The arrows are removed when the memory level is controlled by a rotary selector switch. The first seven characters of the organist's name.

2. Transposer Controller: The Transposer Controller displays the current transposition level of the organ. The large number in the center of the Transposer Controller displays the current transposition of the organ. Pressing the Up arrow moves the transposer up one level. Pressing the down arrow moves the transposer down one. The arrows can be removed so the transposer can be controlled by a rotary selector switch.

3. Function Buttons: The function buttons are set up by the organ builder, and change depending on the options of the instrument. The only unchangeable button is the Main Menu. Pressing the Main Menu button will exit the performance screen and enter the main menu. See the Function Buttons section for more information.

4. Shoe Positions: The Shoe Positions window uses bar graphs to display expression and crescendo levels. Letters and Numbers below each bar graph indicate what the graph represents. For cresendo bar graphs, a numeric readout is included above the bar graph.

Performance Screen (Continued)

The performance screen has 5 configurable function buttons that are setup during organ configuration. Some of the function buttons options are interactive, displaying and changing common organ functions. All other function button options act as shortcusts to buttons within the main menu. For example, pressing the MIDI Sequencer button jumps directly to the MIDI Sequencer screen without having to exit to the main menu.

Interactive Function Buttons

Tutti 1 / Tutti 2: Each organist has 4 programmable tutti memory levels for tutti 1 and tutti 2. These buttons display the active tutti memory level for either tutti 1 or tutti 2. Pressing these buttons increments through the active tutti memory level from 1 to 4 and then wrap back to 1 again.

SFZ 1 / SFZ 2: Sforzando operates in the same way as Tutti, except that it is not latching.

Crescendo 1 / Crescendo 2: Each organist has 4 programmable crescendo memory levels for each of 2 shoes. These buttons display the active crescendo memory level for either crescendo shoe 1 or crescendo shoe 2. Pressing these buttons increments through the active crescendo memory level from 1 to 4 and then wrap back to 1 again.

General Piston: This button is only a display of the current general piston that is active. It's primary function is displaying what general piston is active when using the general piston sequencer.

Blank: Selecting "Blank" removes the button from the performance screen.

Shortcut Buttons

Organist Log In MIDI Record/Play MIDI Module MIDI Stops Custom Crescendo Memory Controller Chime Volume Memory Level Tool Tutti-Cres Memory Blind Check Screen Sleep Power Operation

Autopedal Organist Backup Organist Name Change Access Code Add Organist Delete Organist Performance Screen Screen Brightness Color Scheme Set Clock Range Menu Remote Tuner Test and Diagnose System Config Cresc. 1 Cresc. 2 Tutti 1 Tutti 2 SFZ 1 SFZ 2 Gen Piston Clock Blank

Logging Into The Screen

Guest Account

Some organs are enabled with an open guest account that does not require a passcode. If the guest account was setup with an access code for security reasons, the organ will go directly to the login screen upon powerup. Otherwise, the organ will automatically login the guest organist and go directly to the performance screen.

Loggin into the System

Once the sysyem is powered on, the organist will be taken to the Performance Screen. From here, hit the Main Menu button, then Organist Log In/Out.

- 1. From the Performance Screen, hit Main Menu
- 2. Hit the Organist Log In/Out button.
- 3. Select the user (organist) to log in and hit Next.



Changing an Organist's Color Scheme

We highly recommend assigning a unique color scheme to each organist's login.

- 1. From the Main Menu hit the Color Scheme button.
- 2. Select the desired Color Scheme and hit Save.





Main Menu

Main Men	u		1 of 1
Organist	MIDI	Custom	
Log In/Out	Stops	Crescendo	
Blind	Screen	Screen	
Check	Sleep	Brightness	
Color	Set	Test and	Exit
Scheme	Clock	Diagnose	

- The Main Menu changes with the configuration of each individual instrument. Different buttons may be available or unavailable depending on how the organ was originally setup. If questions arise as to whether a function is available, please contact the installer of the MS8400 System.
- Next Button: If more buttons are available on the Main Menu than can fit on a single page, the Next button moves forward to the next page of buttons.
- Prev Button: If more buttons are available on the Main Menu than can fit on a single page, the Next button moves backward to the previous page of buttons.
- Exit Button: The Exit button can be pressed to exit the Main Menu and return to the Performance Screen.
- Here are a list of all buttons available in the MS8400 at the time this manual was written.
- Organist Log In/Out: Pressing this button logs out the current organist and allows the organist to log in to the MS8400 under a different organist account.
- MIDI Record / Playback: This button is used to record and playback songs on the MS8400 system. The built in MIDI Sequencer is covered in its own manual. Please see the MS8400 MIDI Sequencer Manual for more details. If this manual is lost or missing, a new one can be downloaded from www.syndyne.com
- MIDI Module: This function is for advanced users and is not enabled by default. This menu is used to create a MIDI stop that can be configured with a MIDI voice. The menu is also used to configure stops to control MIDI devices directly using MIDI messages.

Main Menu (Continued)

- MIDI Stops: MIDI Stops can be configured with different MIDI voices using this button. Some MIDI stops are locked because they are meant to be a permanent addition to the Organ. Only unlocked MIDI stops can be changed using the MIDI Stops button.
- Custom Crescendo: The MS8400 can have two crescendo shoes. Each user in the system has four different Memory Levels per shoe, and each shoe has 60 stages. Each crescendo Stage can be customized to blindly turn on a different set of stops.
- Chime Volume: The MS8401 General Controller has 4 rotary switch inputs. Any of these inputs can be configured to change AC Chime Volume using a Rotary Selector Switch. If the organ does not have chimes or it does not have chimes capable of being controlled by the touchscreen, this button is typically removed.
- Blind Check: Functions such as sforzando (SFZ), tutti, or crescendo blindly control stops. This means the stops are turned on without physically moving them. Turning Blind Check on allows the organist to view what is set on a particular blind function. It is recommended that only one blind function be active at a time to avoid confusion. For example, make sure the crescendo is turned off if you are trying to view the Tutti piston. Also, when Blind Check mode is active, stops cannot be manually moved.
- Screen Sleep: Pressing the Screen Sleep button puts the screen in sleep mode, which turns off the display, but leaves the rest of the system functioning. The organ can be played while the screen is in Sleep mode. Touch anywhere on the screen to exit Sleep mode.
- Autopedal On/Off: This is a toggle switch that can turn autopedal on and off without needing to use a piston or stop control.
- Organist Backup: Organist data can be backed up to a USB thumb drive using this button. Backups can then be restored using this button as well.
- Color Scheme: This button allows the organist to change the color scheme. Each organists can have their own color scheme. This can be useful to quickly tell which organist is currently logged into the instrument.
- Set Clock: The screen has an internal clock that can be displayed on the Performance Screen. The internal clock is also used to record what date/time an organist backup, MIDI song, or other file was created. Use the Set Clock button to set the date/time of the internal clock.
- Range Menu: The relationship between stop controls and the general/divisional pistons can be changed on the fly by per organist. This feature is covered in the advanced section of the user manual.

Main Menu (Continued)

- Screen Brightness: This button contains a scroll bar that allows the organist to change the brightness of the touch screen's LED backlight.
- Organist Name: This button allows the organist to change their name. The organist name can have up to 12 characters.
- Change Access Code: The organist can change their organist access code using this button. The organist access code is a four digit numeric code that is used to access the MS8400. The code protects an organist's piston combinations and settings from unauthorized access.
- Add Organist: This button can be used to add a new organist to the MS8400 system. This feature is advanced and in most scenarios is not available without custom configuration.
- Delete Organist: This button deletes an organist from a list of all available organists. The "builder" and "guest" organists can never be deleted.
- Power Operation: The MS8400 can be equiped with up to 8 optional Power Sequencer boards with 4 power relays per board. These relays can be used to turn off equipment throughout the organ. This function is only available in installations where Power Sequencer boards have been installed. The Power Operation button is an advanced function that in most scenarios is not available.
- System Config: This button opens the System Configuration Menu. The System Configuration Menu is for advanced users and installers only. Most installations will not allow access to this button as it contains features that erase or damage organ configuration. The System Configuration Menu is covered in the MS8400 Configuration Manual. If this manual is lost or missing, a new one can be downloaded from www. syndyne.com.
- Remote Tuner: The MS8400 can be installed with a remote control. This remote control can be used to access the organ from the chamber to assist in tuning. This button is deactivated by default. The Remote Tuner is covered in the MS8400 Configuration Manual.
- Test and Diagnose: This menu should only be used as instructed by the organ builder. In most cases this button will not be available. It is optionally available for instruments in remote locations where travel time is significant. The builder may activate this button in order to help the organist diagnose problems with the instrument remotely before making a service call.

Custom Crescendo

Here are the basic steps to customize the crescendo. Check below the basic instructions for more detailed information on each button.

- Step 1: Select the desired crescendo shoe, crescendo memory level, and crescendo stage.
- Step 2: Turn on all the stops that are desired to be captured on the crescendo stage.
- Step 3: Press the set stage button. (A box will pop up while the stops are being saved.)
- Step 4: Repeat the processes for all the stages of crescendo.



It is necessary to set all 60 stages of both crescendos!

Detailed Information

- A: The MS8400 can have two different crescendo shoes per organ console. Pushing the Crescendo Shoe button toggles back and forth between crescendo shoe 1 and crescendo shoe 2.
- B. In the MS8400, each user has the ability to save 4 different crescendo settings per crescendo shoe. The Crescendo Mem button displays the current crescendo memory level that is being worked on.
- C: Pressing these up and down arrows move the crescendo memory level up and down.
- D: Each crescendo memory level has 60 programmable stages. Each stage can capture the entire registration of the MS8400 system. The Stage button shows the selected stage that is currently being worked on.
- E: Pressing these up and down arrows moves the current crescendo stage up and down.

Custom Crescendo (Continued)

- F: To copy a crescendo memory level first select the new shoe and memory level to be created then press the Copy Mem Level button. After pressing the Copy Mem Level button, select the desired organist from the list box to copy from their Crescendo Memory Levels. Once the desired organist is selected, press the Next button. Now select the desired Crescendo Shoe and Crescendo Memory Level to copy. Once the desired settings have been selected, press the Copy button.
- G: The Clear Mem Level button clears the Crescendo for the entire Memory Level.





- H: Blind check mode can be toggled on and off by pressing this button. When blind check mode is activated, the button will change color and the text will say "Blind Check: On." While blind check mode is active, all the stops programmed onto the currently selected crescendo shoe, crescendo memory level, and crescendo stage, will physically turn on or off (only if the organ has moving stops). As you scroll through different shoe, memory level, and stage settings, the stops will continue to change to show what stops are programmed on each setting. Pressing the blind check mode button will deactivate blind check mode and the text on the button will say "Blind Check: Off."
- I: The Set Stage button captures the registration onto the currently selected crescendo stage, shoe and memory level. Once the Set Stage button is pressed, a box will appear showing that the stops are being captured. After the stops have been captured and the system is ready for another stage, the box will disappear.
- J: If the Auto Inc Stage button is ON, then the Set Stage button will automatically increment to the next stage in order to speed up the configuration process. When the Auto Inc Stage button is OFF, then the Stage will stay the same when the Set Stage button is pressed. Pressing this button toggles the auto increment mode on and off.
- K: Pressing the Exit button will return you to the main menu.

Chime Volume

The MS8401 General controller has 4 rotary switch inputs. Any of these inputs can be configured to change AC Chime Volume using a Rotary Selector Switch. If the organ does not have chimes or it does not have chimes capable of being controlled by the touchscreen, this button is typically removed.

Step 1: Press the Chime Volume button from the Main Menu screen.

Step 2: Input the desired chime volume using the numeric keypad or the up and down arrows. Once the desired level is entered, press the Set button. After chime volume is set, the screen will be returned to the Performance Screen.

Input Volume Level (0-5)					
0	1	2	3	Set	
	4	5	6		
•	7	8	9		
	Clear	0		Exit	

Step 3: Press the set stage button. (A box will pop up while the stops are being saved.)

Step 4: Repeat the processes for all the stages of crescendo.

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Detailed Information

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- C: Pressing these up and down arrows move the crescendo memory level up and down.
- D: Each crescendo memory level has 60 programmable stages. Each stage can capture the entire registration of the MS8400 system. The Stage button shows the selected stage that is currently being worked on.
- E: Pressing these up and down arrows moves the current crescendo stage up and down.

Blind Check

Functions such as Sforzando (SFZ), Tutti, and Crescendo blindly control stops. This means the stops are turned on without physically moving them. The Blind Check feature allows the organist to view what is set on a particular blind function. This feature can be extremely useful when trying to tell what stops turn on with each level of crescendo or for copying a Tutti memory level.

To turn blind check on and off, first enter the blind check mode screen from the main menu. Press the blind check button once to turn blind check mode on. This will cause

Set Blind Check Mode.	1 of 1	Set Blind Check Mode.	1 of 1
Blind Chk. Mode Off		Blind Chk. Mode On	
	Exit		Exit

the blind check button to change color and the button text to change to "Mode On." Pressing the button a second time will turn blind check mode off. This will cause the blind check button to change back to a normal unpressed color and change the text back to "Mode Off."

Pressing the Exit button will return the screen to the Main Menu. Exitting this screen does not turn off blind check. If blind check mode is on when the exit button is pressed, blind check will remain on. Blind check will need to be turned off by re-entering the blind check mode screen. It is highly recommended to turn off blind check mode before playing the organ. It is also recommended to make sure blind check mode is off before leaving the instrument so any other users will not be confused.

It is recommended that only one blind function is active at a time while blind check mode is on to avoid confusion. For example, make sure the crescendo is turned off if you are trying to view the Tutti. Also, when blind check mode is active, stops cannot be manually moved. Any stops that are moved manually while blind check mode is on will cause the stops to immediately move back to whatever setting is on the current blind function.

Organist Backup

Each organist can have up to 100 memory levels within the MS8400 system. Using USB flash drives, the organist can gain an infinite amount of memory levels. The Organist Backup button is used to create a copy of an organist's combinations by backing it up to a USB flash drive. This can be done using the following steps.

Backup Memory

Step 1: From the Main Menu hit the Organist Backup button.

Step 2: The Organist Backup Menu screen will be displayed. Press the Backup Memory button.

Step 3: Name your backup using the alpha numeric keypad or accept the default name and hit Create Backup. Names can be up to 8 characters in length. Once the backup is complete you will be taken back to the Main Menu.

Organist's Backup Menu Restore Backup Memory Memory Exit

Restore Memory

Step 1: From the Main Menu hit the Organist Backup button and then hit Restore Memory.

Step 2: A file manager window will appear. Backups are saved to the 8400_OB folder. Select 8400_OB from the file manager list box and press the Open Folder button.

Step 3: All the organist backups in the system are displayed in this folder. Select the desired backup from the list box. Please note there is a Delete Folder and Rename Folder button that will allow you to delete or rename the selected backup. Please be careful not to accidentally change or delete someone else's backup. After selecting the desired backup file, press the Restore button. Once the restore is complete, the screen will return to the Main Menu.



Select a Folder			1 of 1
Go_Back OBSUZY01	+	Open Folder	Restore
OBSUZY02 OBSUZY03 OBSUZY04 OBSUZY05 OBJOHN01		Rename Folder Delete Folder	Prev
OBJOHN02 OBJOHN03 OBSUZY06	-		Exit

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Changing an Organist Name

The MS8400 allows an organist to change their name quickly and easily. The organist name can contain up to 12 characters. Simply use the letters and numbers to change the name and press the enter button to save.



Before typing in a new name, press the delete key until the original name is cleared. If new characters are pressed before the delete key has been pressed, the new characters will by added to the end of the current name.

- A: The name display box starts by showing the organist name that was previously entered. As letters and numbers are pressed, they are added to the end of the name display box. The delete button deletes the last letter or number from the display name box.
- B: The Numbers/Letters button toggles the screen between showing letters and numbers.
- C: Once the name has been entered correctly, press the Enter button to save the name.
- D: Pressing the Previous button will exit the naming screen and return to the main menu.
- E: The Delete button deletes the last letter or number from the display name box.

Changing an Organist Access Code

The MS8400 allows organists to protect their pistons, memory level, and settings with a 4 digit access code. The organist access code screen can be used to change this code. To ensure that the code is typed in correctly, the system requires that the code be entered in twice. This prevents an organist from mistyping the code and locking themselves out of their settings.

Enter N	ew Acc	ess Coc	le	1 of 2	Re Ente	r New A	Access (Code	2 of 2
1234	1	2	3	Next	1234	1	2	3	Save
	4	5	6			4	5	6	
	7	8	9			7	8	9	
	Clear	0	Enter	Exit		Clear	0	Enter	Exit

Once in the Enter New Access Code screen, simply use the number pad to enter in a new code. If a mistake is made during number entry, the clear button can be used to clear all the selected numbers to start over. Once the access code has been entered correctly, press the next button. Repeat the process to confirm the access code using the number pad and then press save. This saves the new access code.

Pressing the exit button exits the screen and returns to the main menu without changing the access code.

Note that if the organist access code is set to 0000 then an access code is not required by the system to login as that organist.

FORGOTTEN ACCESS CODES: It is possible for the organ installer to reset an organist access code. Please contact your installer for more information. If you are an installer and are looking for information on resetting an organist access code, please see the System Configuration Manual.

27	<i>i</i> n	d	171	'n	9
2)	11	u,	y I		

Screen Brightness

The touch screen backlight can be adjusted to fit a variety of different lighting levels.



- A: The brightness display box tells you what percentage level the slider is currently set at. Many LED backlight displays will have a longer life if less than 100% power is selected. With this screen however, it will have good life anywhere within the 0-100% brightness range.
- B: The slider box holds the slider bar that is used to adjust the brightness settings.
- C: By pressing on the slider bar and sliding left, the screen brightness is decreased. By pressing on the slider bar and sliding right, the screen brightness is increased.
- D: Once the brightness is set at the desired level, press the Save button to save the current brightness setting.
- E: Press the Exit button to return to the main menu without saving any changes to the screen brightness.

Advanced Operation

The features in this section of the manual are only recommended for advanced users with an excellent understanding of how the system works. Please do not access these features without a proper understanding of how to properly configure them.



MIDI Stops

The MIDI Stops screen is used to change the MIDI voice settings for existing MIDI stops.

Step 1: The MS8400 system can have up to 8 separate MS8410 MIDI Sound Module boards, each one identified by a number which is set via on-board DIP switches. Each MS8410 is used to connect to a MIDI Sound module or other MIDI Device. Once the desired MS8410 is selected, press the Next button. If only 1 MS8410 exists in the system, the screen automatically selects it and moves to the next screen.





Step 2: Turn on the desired MIDI Stop Control. If no MIDI Stops are on, the screen will display a warning message. If more than one MIDI Stops are on, the Up and Down arrows can be used to scroll through them. The selected MIDI stop will have its current Voice Configuration displayed. MIDI Stops may be locked to prevent changing stops that are setup for a specific sound module. If the stop is locked, the screen will display a warning message and prevent editting of the selected stop. Once the correct MIDI Stop is selected, press the Next button.

Step 3: Select whether the selected MIDI Stop is affected by couplers, or is non-coupling. Once the correct selection has been made, press the Next button.

Select Cou	3 of 10	
Coupling	Non Coupling	Next
		Prev
		Exit

Step 4: Confirm that the configuration settings are correct. The Previous button can be used to go back through the menus to make desired changes. The Exit button will return to the Main menu. Once the configuration settings are correct, press the Save button to commit the configuration to memory.

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MIDI Stops (Continued)

Step 5: Select the Program Change / Voice method to be assigned to the selected stop. Depending on which option is selected, the following several screens will be different. Here is a description of each available option.

- [Select Program Ch	4 of 10	
5	OFF Gen Midi Voice MX200 Bank Select	-	Next Prev Exit

Step 6 (OFF): This option will only send MIDI keying messages for the selected stop. Patch Change, or MIDI Voice messages will not be sent if this option is selected. This is used in cases where the MIDI voice is selected on the MIDI Sound Module or other MIDI Device. Note that if this option is selected, no additional screens will be displayed to configure the Voice method. The Octave Transpose screen will be displayed upon selecting the OFF option.



Step 6 (General MIDI Voice): This option allows the selection of a standardized general MIDI voice from a listbox. Selecting a standard voice from the list box will automatically send the correct messages to activate a standard MIDI Voice on a standard MIDI Sound Module or other MIDI Device. Once the correct General MIDI Voice has been selected, press the Next button.

Step 6 (MX200): The Roland MX200 Sound Module has its own list of MIDI Voices. This option allows the selection of one of the MX200 MIDI voices from a listbox. Selecting one of these MIDI Voices will automatically send the correct messages to activate a MIDI Voice on an MX200 Sound Module. Once the correct MX200 Voice is selected, press the Next button.



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MIDI Stops (Continued)

Step 6 (Bank Select): This option is used to manually enter the Program Change, MSB, and LSB for the desired MIDI Voice. In some cases, MIDI Devices have a list of sounds or voices that can be activated using MIDI messages. This list of sounds should reference a Program Change number, an MSB (Most Significant Byte), and an LSB (Least Significant Byte). Enter the values for Program Change, MSB, and LSB in their respective screens and press the Next button.

Enter Pro	5 of 10			
0	1	2	3	Next
	4	5	6	Prev
\bullet	7	8	9	
	Clear	0		Exit

Enter MSB 5 of 10					
0	1	2	3	Next	
	4	5	6	Prev	
•	7	8	9		
	Clear	0		Exit	

Enter LSB 5 of 10				
0	1	2	3	Next
	4	5	6	Prev
•	7	8	9	
	Clear	0		Exit

Step 7: Select the desired level of Octave Transpose. The MS8400 system can transpose MIDI Device keying +/- two octaves, an octave at a time. Selecting 0 will turn off Octave Transpose. Once the correct level of Octave Transpose is selected, press the Next button.

Select Octave T	6 of 10	
+2 +1	+	Next
0 -1	\square	Prev
-2		
	-	Exit

Enter Note Velocity				7 of 10
64	1	2	3	Next
	4	5	6	Prev
+	7	8	9	
	Clear	0		Exit

Step 8: Enter the Note On Velocity to be transmitted with the MIDI Keying for the selected stop and channel using the numberic keypad. The default velocity is 64. A velocity of 0 is the equivalent of a Note Off. Once the correct Note Velocity has been entered, press the Next button.

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MIDI Stops (Continued)

Step 9: Select an Expression Shoe to control the expression level for the selected Stop and MIDI Channel. Selecting OFF will turn off MIDI expression for the selected Stop and MIDI Channel. The buttons next to the listbox configure the selected Expression Shoe to transmit either a MIDI Expression message or a MIDI Volume message. Once the correct Expression Shoe and Message Type is selected, press the Next button.

Select Expression S	8 of 10		
OFF PEDAL	+	Expr Message	Next
GREAT SWELL CHOIR		Volume Message	Prev
	-		Exit

Minimur	9 of 10			
64	1	2	3	Next
	4	5	6	Prev
•	7	8	9	
	Clear	0		Exit

Step 10: Enter the Minimum MIDI Expression or MIDI Volume level. The default level is 64. If "OFF" was selected in the previous screen, this step will be automatically skipped. Once the correct minimum level is entered, press the Next button.

Step 11: Confirm that the configuration settings are correct. The Previous button can be used to go back through the menus to make desired changes. The Exit button will return to the Main menu without saving changes. Once the configuration settings are correct, press the Save button to commit the configuration to memory.

Confirm Stop Config	10 of 10
Stop: Card 1 Input 1 MSB: 121 LSB: 1 Midi Ch: 1 Coupling Octave Trans: +1 Exp. Shoe: Off Note On VeI: 64 Div: Great Cpling Key: First 1, Last 61	Save Prev Exit

MIDI Module Menu

MIDI MODULE MENU

The MIDI Module Menu is used to configure a variety of MIDI functions. Unless an Organist is familiar and comfortable with MIDI, the MIDI Module Menu button should be hidden from the organist. It is important to note the difference between the MIDI Module button and the MIDI Stops button on the Main Menu. The MIDI Stops button on the Main Menu is intended for an organist to change a MIDI Stop which has been pre-configured by the builder. Before an organist can use the MIDI Stops button, the Builder must create an Unlocked MIDI Stop using Advanced MIDI Stops from the MIDI Module Menu. Please read the following section for details on each button within the MIDI Module Menu.

MIDI Mod	ule Menu		
Advanced MIDI Stops	MIDI Volume	MIDI Tuning	
MIDI Stop Controls	MIDI Stops Pass-Thru	Pizzicato Set Time	
			Exit

MIDI Module: Adv MIDI Stops

Advanced MIDI Stops: The Advanced MIDI Stops button is used to create a MIDI Stop. There can be a MIDI Stop assigned to each of the 16 available MIDI channels, and any stop in the MS8400 system can be configured as a MIDI stop.

The MS8400 system can have up to 8 separate MS8410 MIDI Sound Module boards, each one identified by a number which is set via on-board DIP switches. Each MS8410 is used to connect to a MIDI Sound module or other MIDI Device. Once the desired MS8410 is selected, press the Next button.

Step 2: MIDI has 16 available channels to work with. Each MS8410 can be configured to operate one stop for each MIDI Channel. Select the desired MIDI Channel to configure. If the selected MIDI Channel is already configured with a MIDI Stop, the configuration data will be shown on the screen. The Clear button can be used to clear the configuration data for the selected MIDI channel. Once the correct MIDI Channel has been selected, press the Next button.





Step 3: Select a stop to configure as a MIDI stop on the selected MIDI Channel. If no stops are turned on, the screen will display a warning that no stops are on. If one or more stops are on, the screen will display the currently selected stop's card number and input number. If more than one stop is on, the up and down arrows can be used to scroll through and select the desired stop from all stops that are turned on. Once the desired stop is selected, press the Next button.



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MIDI Module: Adv MIDI Stops (Cont.)

Step 4: Select whether the selected MIDI Stop is affected by couplers, or is non coupling. Once the correct selection has been made, press the Next button.

Select a Keyin	5 of 14	
Great Swell Pedal Choir	+	Next Prev
	-	Exit



Step 5: Select a division to use for keying the MIDI stop. The division selected here will be used to play the configured MIDI stop. Once the correct division has been selected, press the Next button.

Select First Key (1-61)

1

4

7

Clear

2

5

8

0

3

6

9

1

6 of 14

Next

Prev

Exit

Step 6: Select the first key to play on the selected division. This can be done by pressing a key on the keyboard, or by entering the number through the keypad. For example, if the MIDI stop is supposed to play starting on Low C, press Low C and the number will automatically be changed to 1. If the MIDI stop is supposed to play starting at Tenor C, press Tenor C and the number will automatically change to 13. Once the first key has been selected, press the Next button.

Select Last Key (1-61)				7 of 14
61	1	2	3	Next
	4	5	6	Prev
•	7	8	9	
	Clear	0		Exit

Step 7: Select the last key to play on the selected division. This can be done by pressing a key on the keyboard, or by entering the number through the keypad. For example, if the MIDI stop is supposed to play up through the last note on the keyboard, press High C and the number will automatically be changed to 61. If the MIDI stop is supposed to play bottom octave only on this driver card, press Low B and the number will automatically be changed to 12. The last note can be set to

a value higher than the end of traditional keyboards in order to play any notes that would be coupled or transposed above note 61. For example, setting the last note to 73 will

MIDI Module: Adv MIDI Stops (Cont.)

allow coupling or transposition up to an octave above the last note on the keyboard. Once the last key has been selected, press the Next button.



Step 8a: Select the Program Change / Voice method to be assigned to the selected stop. Depending on which option is selected, the following several screens will be different. Here is a description of each available option.

Step 8b (OFF): This option will only send MIDI keying messages for the selected stop. Patch Change, or MIDI Voice messages will not be sent if

Select GM Voice

this option is selected. This is used in cases where the MIDI voice is selected on the MIDI Sound Module or other MIDI Device. Note that if this option is selected, no additional screens will be displayed to configure the Voice method. The Octave Transpose screen will be displayed upon selecting the OFF option.

Step 8b (General MIDI Voice): This option allows the selection of a standardized general MIDI voice from a listbox. Selecting a standard voice from the list box will automatically send the correct messages to activate a standard MIDI Voice on a standard MIDI Sound Module or other MIDI Device. Once the correct General MIDI Voice has been selected, press the Next button.



Step 8b

(MX200): The Roland MX200 Sound Module has its own list of MIDI Voices. This option allows the selection of one of the MX200 MIDI voices from a listbox. Selecting one of these MIDI Voices will automatically send the correct messages to activate a MIDI Voice on an MX200 Sound Module. Once the correct MX200 Voice is selected, press the Next button.

Acoustic grand piano	+	Next
Bright acoustic plano		l J
Electric grand piano		
Honky-tonk piano		Prev
Electric piano 1		
Electric piano 2		
Harpsichord		
Clavichord		
Celesta		Exit
Glockensniel	-	

8 of 14

MS8400 User Manual MIDI Module: Adv MIDI Stops (Cont.)

Step 8b (Bank Select): This option is used to manually enter the Program Change, MSB, and LSB for the desired MIDI Voice. In some cases, MIDI Devices have a list of sounds or voices that can be activated using MIDI messages. This list of sounds should reference a Program Change number, an MSB (Most Significant Byte), and an LSB (Least Significant Byte). Enter the values for Program Change, MSB, and LSB in their respective screens and press the Next button.

Enter MS	SB			8 of 14
0	1	2	3	Next
	4	5	6	Prev
•	7	8	9	
	Clear	0		Exit

Enter Program Change			8 of 14	
0	1	2	3	Next
	4	5	6	Prev
\bullet	7	8	9	
	Clear	0		Exit

Enter LS	В			8 of 14
0	1	2	3	Next
	4	5	6	Prev
\bullet	7	8	9	
	Clear	0		Exit

Select Octave Transpose		9 of 14
+2 +1	+	Next
0		Prev
-2		
	-	Exit
	-	Exit

Step 9: Select the desired level of Octave Transpose. The MS8400 system can transpose MIDI Device keying +/- two octaves, an octave at a time. Selecting 0 will turn off Octave Transpose. Once the correct level of Octave Transpose is selected, press the Next button.

Step 10: Enter the Note On Velocity (between 1 and 127) to be transmitted with the MIDI Keying for the selected stop and channel using the numeric keypad. The default velocity is 64. A velocity of 0 is equivalent to a Note Off. Once the correct Note On Velocity has been entered, press the Next button.

Enter No	10 of 14			
64	1	2	3	Next
	4	5	6	Prev
+	7	8	9	
	Clear	0		Exit

MIDI Module: Adv MIDI Stops (Cont.)



Step 11: Select an expression shoe to control MIDI Volume or Expression if desired. Selecting OFF from the list will send no Volume or Expression messages on the current MIDI stop. The expression shoe inputs displayed in the list box come from the RJ11 inputs on the MS8404 Keying Cards. Pressing the Expr Message button will assign the selected shoe to MIDI Expression for the current stop, while pressing Volume Message will assign the selected shoe to MIDI Volume for the current stop. Once the desired selections are made, press the Next button.

Step 12 (Optional): If an expression shoe was selected in step 11, enter the minimum expression or volume (between 0 and 127) to be transmitted with the MIDI Keying for the selected stop and channel using the numeric keypad. The default minimum expression or volume is 64. An expression or volume of 0 could be equivalent to a note off, depending on the MIDI sound module being used. Once the correct minimum expression or volume has been entered, press the Next button.



Step 13: Select whether the MIDI stop is going to be locked or unlocked. A locked MIDI stop will not show up in the MIDI Stops screen from the Main Menu. This is useful when digital voices or bass extensions are being used, and it is not desirable for anyone to change or even see that the stop is a MIDI stop. An unlocked MIDI stop will show up in the MIDI Stops screen from the Main Menu and is useful when an organist will be allowed to change the MIDI voice assigned to the stop. For example, if a stop is physically engraved or labeled "MIDI Stop" on the organ and is intended for an organist to use as a Piano, Harpsichord, or other MIDI sound.

MIDI Module: Adv MIDI Stops (Cont.)

Step 14: There are two confirmation screens that could display depending on what option was selected during step 8b. If you selected OFF, the confirmation screen will appear similar to the screen displayed below on the left without any MIDI voice information. If you did not select OFF, the confirmation screen will appear similar to the screen displayed below on the right. Please note that if the stop is a locked MIDI stop, the word "LOCKED" will appear next to the MIDI Ch: # line on the confirmation screen. Confirm that the configuration settings are correct. The Previous button can be used to go back through the menus to make desired changes. The Exit button will return to the Main menu without saving changes. Once the configuration settings are correct, press the Save button to commit the configuration to memory.

Select Midi Channel 1-16	14 of 14	Confirm Keying Config.	14 of 14
Stop: Card 1 Input 1 Midi Ch: 1 Octave Trans: +1 Exp. Shoe: Off Note On Vel: 64 Div: Great Cpling Key: First 1, Last 61	Save Prev Exit	Stop: Card 1 Input 1 Patch Chng: 1 MSB 1 LSB 1 Midi Ch: 1 Octave Trans: +1 Exp. Shoe: Off Note On Vel: 64 Div: Great Cpling Key: First 1, Last 61	Save Prev Exit

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MIDI Module: MIDI Volume

MIDI Volume: The MIDI Volume screen is used to configure a potentiometer to control the MIDI Volume level that is transmitted by the MS8400 System. The MIDI Volume level can be assigned to any of the four potentiometer inputs on the MS8401 General Controller card. DO NOT configure MIDI volume using this screen if you have already setup MIDI volume to operate on an expression shoe on the same channel in the Advanced MIDI Stops screen.

Step 1: The MS8400 system can have up to 8 separate MS8410 MIDI Sound Module boards, each one identified by a number which is set via on-board DIP switches. Each MS8410 is used to connect to a MIDI Sound module or other MIDI Device. Once the desired MS8410 is selected, press the Next button.

Select Midi Channel 1-1	б	2 of 4
	1	Edit
Midi Ch: 1 Volume Source:		Prev
Pot: 1 Midi Volume	•	
	Clear	Exit

Select MIDI Module			1 of 4
Board 1 Board 2 Board 3	+		Next Prev
	-		Exit

Step 2: Each of the 16 available MIDI Channels can be configured with a potentiometer input to control MIDI volume. Select the desired MIDI Channel to configure. If the selected MIDI Channel is already configured with a MIDI volume control, the configuration data will be shown on the screen. The clear button can be used to clear the configuration data for the selected MIDI channel. Once the correct MIDI Channel is selected, press the Next button.

Step 3: Select the source to control MIDI volume on the selected MIDI Channel. MIDI volume can be controlled manually with a potentiometer attached to any one of the four potentiometer inputs on the MS8401 General Controller.





Step 4: Confirm that the configuration settings are correct. The Previous button can be used to go back through the menus to make desired changes. The Exit button will return to the Main Menu. Once the configuration settings are correct, press the Save button to commit the configuration to memory.

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MIDI Module: MIDI Tuning

The MIDI Tuning screen is used to configure the system to automatically or manually tune MIDI stops to match physical pipes.

Step 1: The MS8400 system can have up to 8 separate MS8410 MIDI Sound Module boards, each one identified by a number which is set via on-board DIP switches. Each MS8410 is used to connect to a MIDI Sound module or other MIDI Device. Once the desired MS8410 is selected, press the Next button.



Select Midi Channel 1-10	2 of 5	
Midi Ch: 1 Tuning Source: Board 1 Message Type: Midi Pitch Bend Cal: +0	1 ▲ ◆	Edit Prev
	Clear	Exit

Step 2: Each of the 16 available MIDI Channels can be configured with a Potentiometer Input to control a MIDI Tuning message. Select the desired MIDI Channel to configure. If the selected MIDI Channel is already configured with a tuning message potentiometer, the configuration data will be shown on the screen. The clear button can be used to clear the configuration data for the selected MIDI channel. Once the correct MIDI Channel is selected, press the Next button.

Step 3: Select the source to control MIDI Tuning on the selected MIDI Channel. MIDI Tuning can be controlled manually with a potentiometer attached to any one of the four potentiometer inputs on the MS8401 General Controller.

Each MS8410 has a temp sensor input that can be used to automatically keep the digital stops in tune with the pipe organ stops. Selecting a board from the list will configure its temp sensor input to control tuning messages on the selected MIDI Channel.



Once the correct Tuning Source is selected, press the Next button.

MIDI Module: MIDI Tuning (Cont.)

Enter Calibration Value				4 of 5
0	1	2	3	Next
	4	5	6	Prev
•	7	8	9	
	Clear	0		Exit

Step 4: MIDI tuning is accomplished using a MIDI Pitch Bend Message. The Calibration Value is used in conjunction with the Auto-Tuning feature described in the previous step to tune the digital stops to the pipe stops or as a coarse tuning adjustment for a tuning knob. Once the correct Calibration Value is entered, press the Next button.

Step 5: Confirm that the configuration settings are correct. The Previous button can be used to go back through the menus to make desired changes. The Exit button will return to the Main menu without saving changes. Once the configuration settings are correct, press the Save button to commit the configuration to memory.

Confirm Tuning Config.	5 of 5
Midi Ch: 1	Save
Tuning Source: Board 1	Prev
Message Type: Midi Pitch Bend	
Cal: +0	
	Exit

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MIDI Module: Stop Controls

The Stop Controls screen is used to control stops on and off with certain Sound Modules designed to work with the MS8400.

Step 1: The MS8400 system can have up to 8 separate MS8410 MIDI Sound Module boards, each one identified by a number which is set via on-board DIP switches. Each MS8410 is used to connect to a MIDI Sound module or other MIDI Device. Once the desired MS8410 is selected, press the Next button.



Confirm S	2 of 4		
Stop Card Stop Input Clear # 1 # 1 Stop			Next
Type: CM100 Stop No: 6			Prev
			Exit

Step 2: Turn on the Stop Control on the organ that is desired to control a stop on the sound module. If the Stop Control has already been configured, the data can be reviewed. The Clear button is used to clear the Stop Control configuration data. Once the correct Stop Control is selected, press the Next button.

Step 3: At the time this manual was written, the only available MIDI Sound Module designed to be directly controlled by the MS8400 system was the Viscount CM100. Select the CM100 Stop to control. The list of stops 1-12 and Tremulant correspond with the CM100 stops listed from left to right. Once the correct CM100 Stop is selected, press the Next button.

Select CM100 Stop/Trem		3 of 4
Stop 1	+	Next
Stop 2		Next
Stop 3		
Stop 4		Prev
Stop 5		
Stop 6		
Stop 7		
Stop 8		
Stop 9		Exit
Stop 10	-	

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MIDI Module: Stop Controls (Cont.)

Step 4 (Tremulant): If Tremulant was selected, enter the desired Tremulant Rate. The rate of the Tremulant controls the time between each Tremulant Pulse. A larger number increases the length of time between pulses. Once the correct Tremulant Rate is entered, press the Next button.

Select Tremulant Rate (0-63)				3 of 4
0	1	2	3	Next
	4	5	6	Prev
+	7	8	9	
	Clear	0		Exit

Select Tr	3 of 4			
0	1	2	3	Next
	4	5	6	Prev
•	7	8	9	
	Clear	0		Exit

Step 5 (Tremulant): Enter the desired Tremulant Depth. The depth of the Tremulant controls the length of the Tremulant Pulse. Entering a larger number will result in a longer pulse length. Once the correct Tremulant Depth is entered, press the Next button.

Step 6: Confirm that the configuration settings are correct. The Previous button can be used to go back through the menus to make desired changes. The Exit button will return to the Main menu without saving changes. Once the configuration settings are correct, press the Save button to commit the configuration to memory.

Confirm Tuning Config.	4 of 4
StopCard#: 1 StopInput#: 1 CM 100 Stop: 1	Save Prev Exit

MIDI Module: Stops PassThru

MIDI STOPS PASS-THRU

Step 1: When using certain digital voice products with a learning mode, such as HauptwerkTM (a trademark of Milan Digital Audio LLC), stops can be transmitted as a MIDI General Controller Message. Turning this feature on will send up to 128 stop messages per channel, up to 11 channels total (1280 stop MS8400 system capacity). The MS8400 system can have up to 8 separate MS8410 MIDI Sound Module boards, each one identified by a number which is set via on-board DIP switches. Each MS8410 is used to connect to a MIDI Sound module or other MIDI Device and can individually output stop controls via MIDI General Controller Messages. Once the desired MS8410 is selected from the list box, press the Next button.



Step 2: Press save if you would like to setup stop pass through on MIDI to operate on the selected MS8410. If you have previously setup stop pass through on MIDI on this card, you can press the clear button to remove stop pass through on MIDI. There is no confirmation screen. Exit will take you back to the Main Menu without saving changes and Previous will take you back to the MIDI Module selection list box.

Confirm Stop Config.		2 of 2
Pass Through All Stop Messages Using MIDI Channels 1-11	Clear	Save Prev Exit

MIDI Module: Pizzicato Set Time

MIDI Pizzicato Set Time

Step 1: When using pizzicato on an instrument, it can be necessary to have MIDI stops follow the same pizzicato timing. The MS8400 system can have up to 8 separate MS8410 MIDI Sound Module boards, each one identified by a number which is set via on-board DIP switches. Each MS8410 is used to connect to a MIDI Sound module or other MIDI Device and can have a different pizzicato set time. Once the desired MS8410 is selected, press the Next button.

Select MIDI Module	е	1 of 2
Board 1 Board 2 Board 3	+	Next Prev
	-	Exit

Step 2: Using the numeric keypad, enter the desired pizzicato set time (between 50-250) in milliseconds. Once the correct pizzicato set time is entered, press the Next button to save the configuration. There is no confirmation screen.

Select Pizz Time (50-250)ms				2 of 2
0	1	2	3	Next
	4	5	6	Prev
+	7	8	9	
	Clear	0		Exit

Power Operation

The MS8400 system can be equipped with up to 8 power sequencer boards. Each power sequencer board has 4 programmable outputs that can be turned on or off via the power operation screen.



Message	
No Boards Found	

When the power operation screen is loaded the outputs that are off show up as buttons that are not pressed (Light) and outputs that are on show up as buttons that are pressed (Dark).

Pressing on any of the outputs toggles the output between on and off. Before turning on or off any outputs in the system, make sure to know where the output is attached. It is not recommended to turn outputs on or off unless it is absolutely known what it will affect.

Each output can be given a name at the time of installation. If names were not assigned during installation, they are assigned by board number and output number.

Adding a New Organist

The MS8400 can have up to 50 different organist accounts. In most cases, the ability to add a new organist is reserved for the organ builder, but in some cases others may be allowed to create additional organists. This is common for organ curators, organ professors, and other people who have to manage multiple organists using a single instrument. By default, the MS8400 will have two organist accounts (the builder and the guest) which cannot be deleted. The default access code for the guest is 0000.

The MS8400 system allocates memory levels per organist in blocks of 100. It is important to note that organists show up in the list box in the order that they are entered into the system. If you want to change the order later, this can be difficult as the system retains combinations for each organist even after they have been deleted in the MS8405 touchscreen. If the organist order must be changed, a backup for each individual organist would have to be made first. Then all organists would have to be deleted. Next, all organists would have to be re-entered in the correct order. Finally, each organist would have to be individually restored.

Step 1: Enter the organist name using the Naming Screen and press Enter. Organist names can contain up to 12 characters. For more information on the Naming Screen, see section Changing an Organist Name.

Name: SUZY						
Α	В	С	D	E	F	G
Η		J	K	L	M	N
0	Ρ	Q	R	S	Т	U
V	W	X Y Z Numbers				bers
Del	ete	Exit Enter			ter	

Jame: SUZY				
	7	8	9	
	4	5	6	
	1	2	3	
		0		Letters
Delete		E	kit	Enter

Step 2: Enter the organist access code using the numeric keypad and press Next. The screen requires the code to be entered twice to help prevent lost access codes.

Note that if the organist access code is set to 0000 then an access code is not required by the system to login as that organist.

Enter O	2 of 5				
1234	1	1 2 3			
	4	5	6	Prev	
	7	8	9		
	Clear	0	Enter	Exit	

Adding a New Organist (Cont.)

Step 3: Enter the organist memory levels between 1 and 100 using the numeric keypad and press Next. Please note that this screen will limit the available memory levels for the organist to the number entered.

Enter Organist Memory Levels 4				
100	1	Next		
	4	5	6	Prev
•	7	8	9	
	Clear	0	Enter	Exit

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Step 4: Set the organist access to various screens by checking and unchecking the boxes provided. When this screen is loaded, access is automatically matched to the same access settings of the organist currently logged in. It is important to note that only screens and functions available to the currently logged in organist will be available to select for the new organist. It is not possible to give access to a restricted button by creating a new organist. Use the up and down arrow to access the available options. Pressing the Previous button will return you to the previous screen. Pressing the Exit button will return to the main menu. Pressing the Save button will save the new user and return to the main menu.



Here is a list of available Main Menu access options. Some of the items on this list may not show up in the screen depending on how the organ was originally configured.

MIDI Module	Autopedal	Set Clock
MIDI Record/Play	Organist Backup	Range Menu
MIDI Stops	Organist Name	Remote Tuner
Custom Crescendo	Change Access Code	Test and Diagnose
Chime Volume	Add Organist	System Configuration
Blind Check	Delete Organist	Name Divisions
Screen Sleep	Screen Brightness	Analog In
Power Operation	Color Scheme	

Deleting an Organist

Before deleting an organist, please read the section on adding an organist. This section talks about how organist accounts work within the system, giving valuable information related to deleting organists.

Step 1: Press the Delete Organist button from the Main Menu screen.

Step 2: Select the organist to be deleted from the list box. When sure the correct organit is selected, press the Del button. Please note that there is no warning screen, and you cannot undelete an organist.

Select Organist		1 of 2
SUZY JOHN GUEST BUILDER	+	Del
	-	Exit

Piston Range Menu

Pistons are configured by the organ builder with specific ranges of stop controls commonly referred to as divisions and generals. Sometimes an organist may want to change which stops are capturable on a specific piston. The Piston Range menu allows the organist to temporarily change the ranging of pistons while still retaining the original organ builder configuration. Each organist can have their own custom ranging. Read below for an explanation of how each button works on the Piston Range menu



Range View: The Range View button puts the organ into a temporary mode that will turn on all stops associated with any piston that is pressed and turn off all other stops. When in this mode, stops cannot be hand registered. As the organist presses pistons, stops will continue to change, showing the range of any piston that is pressed. This button toggles on and off, displaying its current state on the button. Range View mode and Set Range mode cannot be activated at the same time.

Set Range: The Set Range button puts the organ into a temporary mode that allows the organist to set which stops are capturable on any piston that is pressed. When the mode is activated, any piston that is pressed will be ranged to any stop controls that are turned on. This custom range is temporary and can be removed at any time to return the organ to its original divisional and general piston range. Range View mode and Set Range mode cannot be activated at the same time.

Restore Range: The Restore Range button restores all pistons to the original divisional and general settings made by the organ builder.

Organist Notes: