

JOHANNUS WM-47 USER'S GUIDE

This manual and additional videos available for download at playjohannus.com.

INTRODUCTION

The Johannus WM-47 organ is custom built for The Church of Jesus Christ of Latter-day Saints. It has been designed primarily as an instrument for accompanying congregational singing as well as to provide a variety of tonal color for prelude music.

Recordings of fine pipe organs from around the world are used to create the beautiful sound of this Johannus organ. When a player presses a key, we hear the actual recording of a pipe, not just an imitation of one.

We hope you enjoy using this instrument as much as we enjoy building it. Should you have any comments or questions, please contact your authorized Johannus dealer.

TABLE OF CONTENTS

| Overview |
|---|
| Basic Functions |
| Activating Stops |
| Piano |
| Couplers |
| Controlling Volume Level |
| Crescendo Pedal10 |
| General and Divisional Pistons13 |
| Preset General Pistons (Memory 1 and 2)12 |
| Bass & Melody Couplers13 |
| Hymn & Prelude Player14 |
| Advanced Functions |
| Programming Pistons17 |
| Transposer18 |
| Tuning |
| Chorus Tuning19 |
| Sample Sets20 |
| Selecting Harp Style20 |
| Programmable MIDI22 |
| Other Menu Items22 |
| Understanding Stops23 |
| Registration Help26 |
| Hymn Player Contents32 |
| Maintenance33 |
| Warranty33 |
| Troubleshooting34 |
| External Connections35 |
| MIDI Implementation Chart36 |
| MIDI Specifications37 |
| WM-47 Specifications39 |

2

SAFETY PRECAUTIONS

- ✓ Place the organ on a stable, horizontal surface.
- ✓ Connect the organ to an electrical outlet with a ground connection.
- ✓ Switch the organ off when it is not in use.
- ✓ Do not place the organ in a damp area.
- ✓ Do not expose the organ to liquids.
- ✓ Follow the instructions and precautionary measures in this user manual.
- ✓ Keep this user manual with the organ.
- ✓ The organ may only be opened by a technician authorized by Johannus Orgelbouw b.v. The organ contains static-sensitive components. The warranty becomes null and void if the organ is opened by a non-authorized person.

SYMBOLS IN THIS MANUAL



Warning or important information.



Note.

MANUFACTURER

Johannus Orgelbouw b.v. Keplerlaan 2 6716 BS EDE The Netherlands

Telephone: +31 (0)318 63 74 03

Fax: +31 (0)318 62 22 38 E-mail: inform@johannus.com Website: www.johannus.com

TECHNICAL ASSISTANCE AND SERVICE

Support

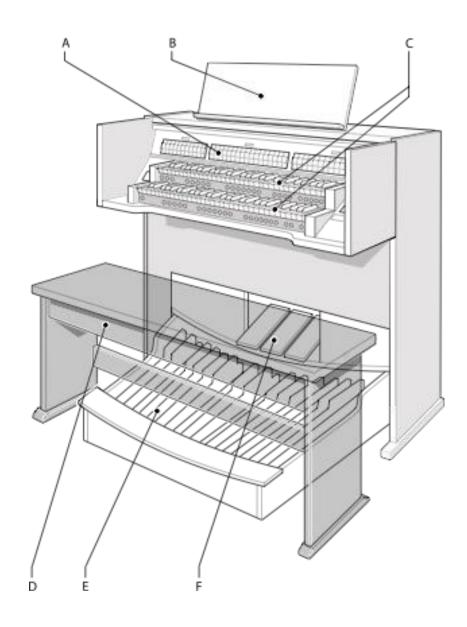
Telephone: 877-564-9644

E-mail: help@playjohannus.com
Website: www.playjohannus.com

© 2019 JOHANNUS ORGELBOUW

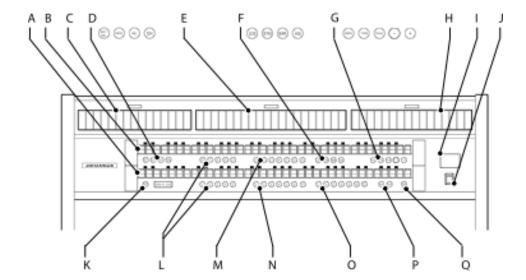
All rights reserved. Nothing in this manual may be reproduced, stored in a data file or made public in any form or in any way either electronically, mechanically, by way of photocopying, recording or in any other way without the prior written permission of Johannus Orgelbouw and playjohannus.com.

OVERVIEW OF MAIN COMPONENTS



- **A** Stops
- **B** Music desk
- **C** Manuals
- **D** Bench
- **E** Pedalboard
- **F** Expression and Crescendo Shoes

OVERVIEW OF CONTROLS

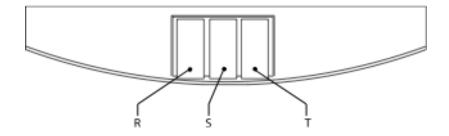


For a detailed description of functions see page number listed next to each feature.

- A Great Manual 7
- **B** Swell Manual 7
- **C** Pedal Stops 7
- **D** EXP-SW 9
 - BASS 13
 - DA33 10
 - MEL. 13
 - CH 19
- **E** Swell Stops 7
- **F** Sample Set Pistons 20
- **G** MENU 14, 22
 - **TUNE 19**
 - TRANS. 18
 - / + 12

- H Great Stops 7
- I Display
- I Power Switch
- **K** SET 17
- **L** General Pistons 11
- **M** Swell Divisional Pistons 11
- N Great Divisional Pistons 11
- **O** Pedal Divisional Pistons 11
- P Piano, Harp 7, 20
- **Q** General CANCEL 7

OVERVIEW OF EXPRESSION SHOES



- **R** Great/Pedal Expression 9
- **S** Swell Expression 9
- T General Crescendo 10

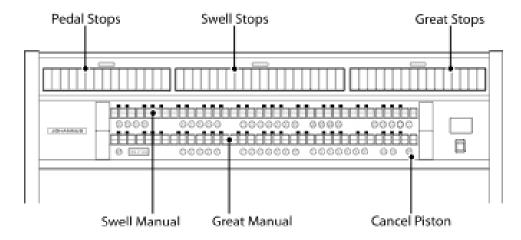
6

ACTIVATING STOPS

Stops control the voices of the organ and have various names. When a stop is activated you will hear its voice when keys are played. For a more detailed description of each stop and how they can be used, see the section on stops and registration.

Either the top or the bottom of the stop tab may be pressed to turn a stop on or off. When the stop is activated the stop tab lights up.

The stops are grouped into *divisions* related to each of the keyboards and pedalboard. Stops from the Pedal division are heard on the pedalboard. Stops from the Swell division are heard on the Swell *manual* or keyboard. Stops from the Great division are heard on the Great manual.



To turn off all stops at once, press the *general cancel piston*.

BASIC FUNCTIONS

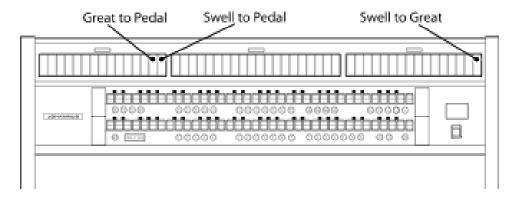
PIANO

The WM-47 features a piano sample for use where a piano is not available. When the piano is activated all organ stops are deactivated. The piano is playable from the great manual. The middle f# on the pedalboard is functions as a sustain pedal.

Activate the piano by pressing the PIANO piston located below the keyboards on the right.

COUPLERS

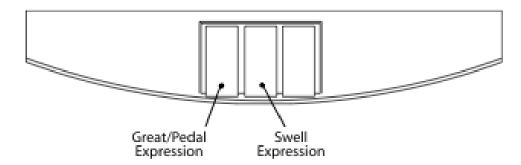
Couplers link the stops of one division to another. For example, activate only the Swell Diapason 8'. You will now have sound on the Swell manual but no sound on the Great manual. Now, activate the Swell to Great coupler located to the far right of the Great stops. You will now be able to play the Swell Diapason 8' on the Great manual as well as the Swell.



- Great to Pedal links the activated Great stops to the Pedal division.
- Swell to Pedal links the activated Swell stops to the Pedal division.
- Swell to Great links the activated Swell stops to the Great division.

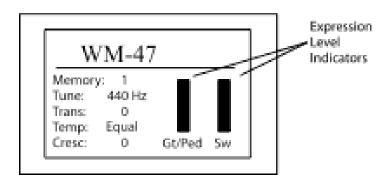
CONTROLLING VOLUME LEVEL

The volume of the organ can be controlled by adding or removing stops as well as by using the *expression shoes*. Pressing the expression shoe forward (or opening the expression shoe) increases volume. To control the volume of stops on the Great manual and Pedal stops, use the Great/Pedal expression shoe. Volume of stops on the Swell manual are controlled by the Swell expression shoe.

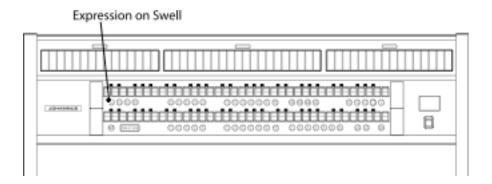


The general volume of your Johannus WM-47 has been set by the installer to successfully accompany congregational singing with the expression shoes fully open or pressed forward.

The positions of the expression shoes are indicated by the bars shown on the display.

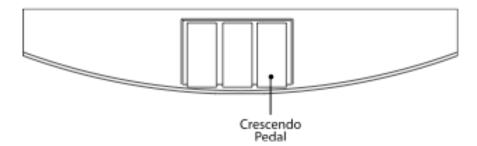


If you would like to control the volume of the entire organ with one expression shoe, use the EXP-SW piston. When the EXP-SW piston is activated, all expression is controlled by the Swell shoe.



CRESCENDO PEDAL

The crescendo pedal or shoe increases volume of the organ by adding stops. The stops light up as the shoe is pressed forward. *The crescendo pedal is normally only used for classical organ literature and choral accompaniment.*



If you cannot get some stops to turn off, check to make sure that the crescendo shoe is not pressed forward.

GENERAL AND DIVISIONAL PISTONS

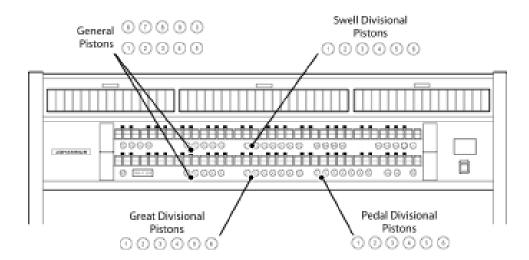
Pistons (or combination memory) are used to quickly recall stop settings. Pistons can be preset or programmed by the organist. The WM-47 has several sets of pistons to assist you in playing the organ.

General Pistons control stops in all divisions (Swell, Great, and Pedal) of the organ.

Great Divisional Pistons only control stops in the Great division.

Swell Divisional Pistons only control stops in the Swell division.

Pedal Divisional Pistons only control stops in the Pedal division.



Some versions of the WM-47 also include toe pistons. The toe pistons to the left of the expression shoes are duplicates of General Pistons 1-5. The toe pistons to the right of the expression shoes are duplicates of the Swell to Pedal, Great to Pedal, and Swell to Great couplers.

PRESET GENERAL PISTONS (MEMORY 1 AND 2)

The pistons discussed in the previous section have been preset to help users select stops quickly.

Preset pistons for congregational singing:

The preset pistons for congregational singing are located on *memory level 1*. Current memory level is indicated in the display.

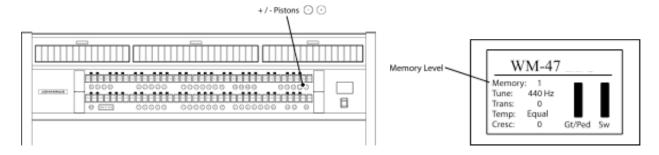
When the organ is turned on, memory level 1 is selected by default.

On memory level 1 the general pistons are ready for congregational singing. They are programmed from soft (1) to loud (0).

The organ will return to these presets every time the organ is turned on. If someone has been using the organ before you, you may wish to turn the organ off, then on again.

Preset pistons for prelude:

The preset pistons for prelude are located on *memory level 2*. Current memory level is indicated in the display. To advance to memory level 2, press the + piston. Pressing the + and – pistons change memory levels. Current memory level is shown in the display.

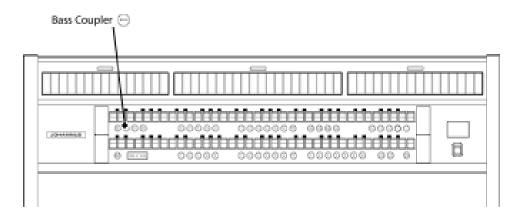


On memory level 2 the general pistons are programmed with combinations suitable for prelude playing.

- General pistons 1-5 are programmed to play the melody (one note at a time) on the Great manual with the accompaniment on the Swell manual. Alternatively, all parts may be played on the Swell manual only.
- General pistons 6-0 are programmed to play the melody (one note at a time) on the Swell manual with the accompaniment on the Great manual. Alternatively, all parts may be plated on the Great manual only.

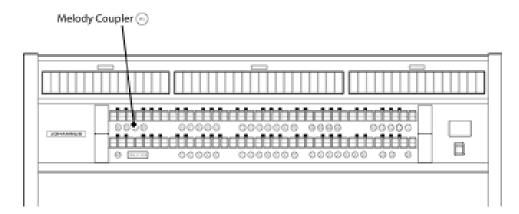
The divisional pistons are programmed with additional solo combinations for playing the melody.

BASS & MELODY COUPLERS



The BASS piston activates the *bass coupler*. This is a valuable tool for organists who do not play the pedalboard. When activated, the lowest note played on the Great manual is automatically played on the Pedal stops as well. This imitates the effect of the pedals being played and adds foundation to the organ's sound.

- The bass coupler only works on the Great manual.
- Some Pedal stops must be activated for the bass coupler to take effect.
- The bass coupler will remain active until the BASS piston is pressed again and the light turns off.



The MEL. piston activates the *melody coupler*. When activated, the highest note played on the Great manual is automatically played on the Swell stops as well. This allows the melody to be heard more clearly. It is also useful for interesting prelude music.

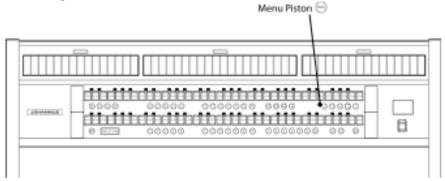
- The melody coupler only works on the Great manual.
- At least one Swell stop must be activated for the melody coupler to take effect.
- The melody coupler will remain active until the MEL. piston is pressed again and the light turns off.

HYMN PLAYER

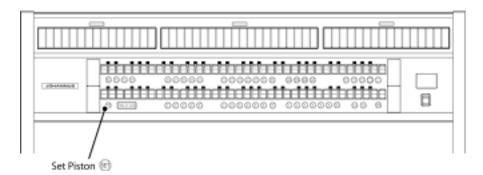
The Johannus WM-47 organ has the ability to play 162 hymns.

To activate Hymn Player:

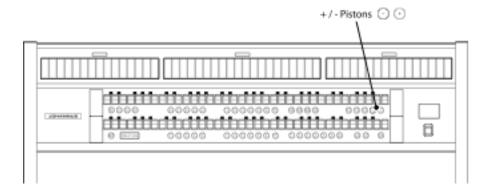
1. Press the MENU piston.



- 2. The display shows the selection of Hymn Player. If the display does not show Hymn Player as the selection, use the + or pistons to navigate.
- 3. Press SET to enter Hymn Player.



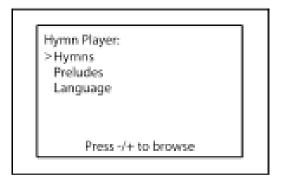
4. Use the + or – pistons to select Hymns, Preludes, or Language Selection as indicated by the arrow on the display.



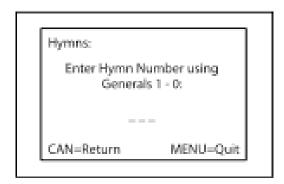
5. Follow instructions for playing hymns or preludes below.

To play a hymn:

1. Activate the Hymn Player as described above and select Hymns in step four.



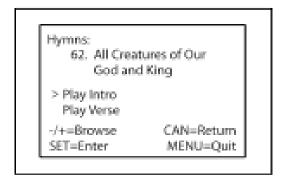
- 2. Press SET to enter Hymns mode.
- 3. Enter the hymn number from the English edition of *Hymns* using the general pistons. (If have selected another language from the menu such as Spanish, enter the hymn number from the Spanish hymnal). Three digits must be entered; i.e. to play hymn number 62 you must press general pistons 0, 6, 2.



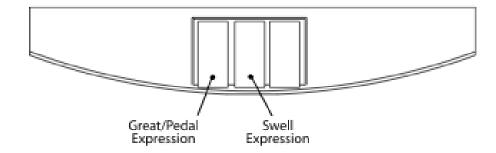
4. Your hymn selection is shown on the display.



- 5. Press SET to confirm your selection or press + or to browse.
- 6. Select whether to start with an introduction or full verse using the + or pistons. This is indicated by the arrow on the display pointing to "Play Intro" or "Play Verse".



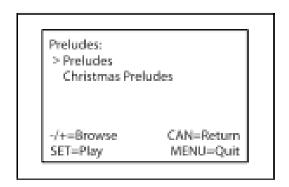
- 7. Press SET to begin playing the introduction or verse.
- 8. Adjust the volume using the Swell expression shoe.



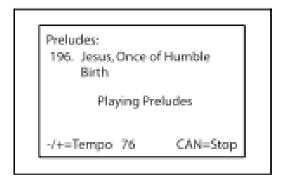
- 9. Press SET at the end of the introduction or verse to play another verse of the same hymn.
- 10. Press MENU to return to the main screen.

To play prelude music:

- 1. Activate the Hymn Player as described above and select Preludes in step four.
- 2. Press SET to enter Preludes mode.



- 3. Select Preludes or Christmas Preludes using + and pistons.
- 4. Press SET to begin prelude playback.



- 5. Adjust the volume using the Swell expression shoe.
- 6. Press CAN. to stop Preludes.
- 7. Press MENU several times to return to the main screen.
- The Prelude Player always plays the preludes in the same order for smooth transitions from song to song. However, it always begins with a different hymn to increase variety. The prelude player contains 50 hymns played twice each.

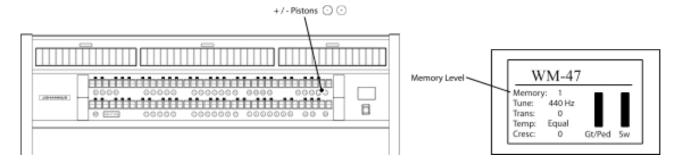
ADVANCED FUNCTIONS

PROGRAMMING PISTONS

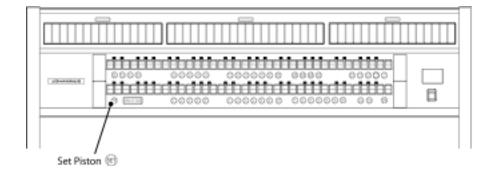
The Johannus WM-47 features 100 memory levels. Memory levels 1 and 2 are preset and cannot be changed. However, memory levels 3-100 are available to program as needed.

Program pistons as follows:

1. Select a memory level (3-100) by using the + and – pistons.



- 2. Set the desired stops by hand.
- 3. Press and hold SET.



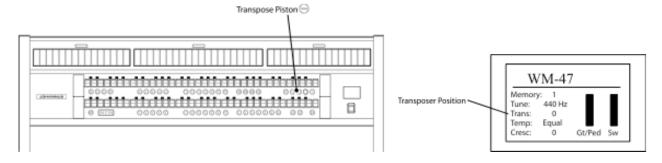
- 4. Press and release the piston you wish to program.
- 5. Release SET.
- Remember that memory levels 1 and 2 are locked. If you try to program a piston on memory level 1 or 2 it will not work.
- If you wish to program stops on all divisions at once, make sure you use a general piston. Divisional pistons will only recall stops in their respective divisions.
- You may wish to coordinate assignment of memory levels with other organists in your building in order to avoid confusion.

ADVANCED FUNCTIONS

TRANSPOSER

It is possible to automatically transpose your playing up or down in half-step increments.

- 1. Press the TRANS. piston.
- 2. Press + or to transpose the playing up or down in half-step increments.
- 3. The position of the transposer is indicated in the display.

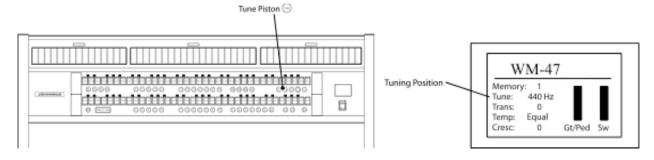


- You must press + or before the TRANS. piston light goes out (about 5 seconds). When TRANS. is not lit, + and change memory levels.
- When the organ is turned off, the transposer will automatically reset to the 0 position.

TUNING

It is possible to tune the organ for playing with other instruments (e.g., a piano that is a bit flat).

- 1. Press the TUNE piston.
- 2. Press + or to tune the organ up or down incrementally
- 3. The position of the tuner is indicated in the display.

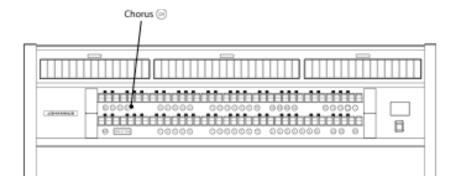


- You must press + or before the TUNE piston light goes out (about 5 seconds). When TUNE is not lit, + and change memory levels.
- When the organ is turned off the tuning will automatically return to the standard A440.

ADVANCED FUNCTIONS

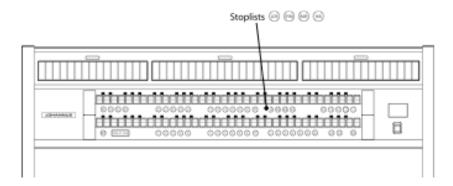
CHORUS TUNING

A pipe organ is never perfectly in tune. That is part of what gives a pipe organ its character. By activating the CHORUS piston, the tuning between different stops on the organ becomes more varied to imitate this characteristic of a pipe organ.



SAMPLE SETS

Pipe organs are built in many styles. The primary style of the Johannus WM-47 is American Classic. It is possible to change the style of the organ to French Symphonic, Baroque, or Historic by pressing one of the sample set pistons.



Later versions (2018-) of the WM-47 have the sample set selection moved from pistons to the menu system. To change sample sets:

- 1. Press the MENU piston.
- 2. Use the + / pistons to select Intonation from the menu.
- 3. Press SET.
- 4. Use the + / pistons to select the sample set you would like to hear.
- 5. Press SET to confirm.
- 6. Press MENU twice to return to the home screen.
- When the organ is turned off the sample set will return to default.

ADVANCED FUNCTIONS

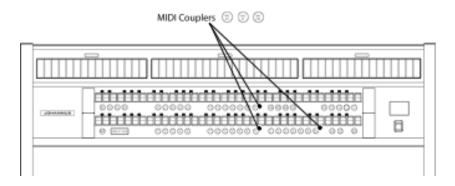
SELECTING HARP STYLE

The organ features three different harp samples. The default sample is the orchestral harp. To change to another harp sample:

- 7. Press the MENU piston.
- 8. Use the + / pistons to select Orchestrals from the menu.
- 9. Press SET.
- 10. Use the + / pistons to select harp.
- 11. Press SET.
- 12. Use the + / pistons to select the harp style.
- 13. Press SET.

PROGRAMMABLE MIDI

The organ features MIDI couplers for controlling external MIDI devices.



With the programmable MIDI stops, you can control any module voice (1-128) through any MIDI channel (1-16).

- 1. Press the MENU piston.
- 2. Select "Programmable MIDI" from the menu.
- 3. Press SET. "MIDI:" appears on the display.
- 4. Select the MIDI stop to be programmed (for example, MIDI Swell). On the display, "MIDI: Swell" now appears.
- 5. Use the + and pistons to select the desired channel.
- 6. Press SET.
- 7. Use the + and pistons to select the desired MIDI voice number.
- 8. Press SET. The selected adjustments are now stored in memory.
- 9. Select another MIDI stop to be programmed if desired.
- 10. Press MENU to return to the main menu.
- 11. Press MENU again to exit the Easy Menu.

OTHER MENU ITEMS

Reset Procedures

The Reset Procedures function is used to delete the capture memory, or to reset a number of settings to the factory settings.

- 1. Push the MENU piston.
- 2. Use the and + pistons to select the Reset Procedures function on the display.
- 3. Push the SET piston. The display shows the menu for the Reset Procedures.
- 4. Use the and + pistons to select the desired procedure.
- 5. Push the SET piston. The display requests confirmation.
- 6. Use the and + pistons for No or Yes.
- 7. Push the SET piston for confirmation.
- 8. Press the MENU piston to return to the main menu.
- 9. Press the MENU piston again to exit the Easy Menu.

Data Dump Mode

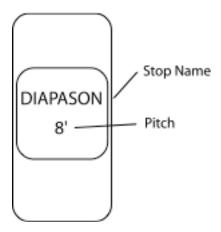
The Data Dump Mode function sends settings from the organ to a storage medium (for example a sequencer) through the MIDI SEQ. output.

- 1. Push the MENU piston.
- 2. Use the and + pistons to select the Data Dump Mode function on the display.
- 3. Push the SET piston. The Press Set piston text appears on the display.
- 4. Make sure the desired storage medium is properly connected.
- 5. Push the SET piston again. When data is being sent, Sending data appears on the display.



Do not use the organ when the text "Sending Data" is on the display.

- 6. Press the MENU piston in to return to the main menu.
- 7. Press the MENU piston in again to exit the Easy Menu.



Stops control the voices of the organ and have various names. When a stop is activated you will hear its voice when keys are played.

Each stop is labeled to identify its voice. The words on the stop tab show the name of the stop. The stop name gives you an idea of what sound you will hear from the stop. The number identifies the pitch of the voice.

FAMILIES OF ORGAN STOPS

Organ stops are divided into four basic families: diapasons/principals, flutes, strings and reeds. We will detail all of the stops on the Johannus WM-47 and place them in their respective families.

Diapasons (Principals)

The diapason or principal is the basic foundation voice and is unique to the organ. This is the predominate sound in a good full organ ensemble and is essential in accompanying hymn singing. The following diapason names are used on the Johannus WM-47 organ: diapason, principal, octave, and choral bass.

Flutes

Flute stops on the organ are imitative of the sound of an orchestral flute. These stops are gentle and sweet in nature, but may vary considerably depending upon the construction of the pipe. The following flute names are used on the Johannus WM-47 organ: flute, bourdon, and gedeckt.

Strings

String stops possess more harmonic development than the basic flute stops and are imitative of stringed instruments. Stops in this family are used as warm and ethereal accompaniment stops, mix well with other stops, and are generally the softer stops on the organ. The following string names are used on the Johannus WM-47 organ: viola di gamba, voix celeste, aeoline celeste, contra violone, and gemshorn (a hybrid stop with flute and string characteristics).

Reeds

The sound from reed pipes is produced by using a brass reed and resonator and imitate many brass and woodwind instruments. These can be either solo reeds or chorus reeds. Solo reeds are somewhat imitative of orchestral reed instruments and are used almost exclusively for solo passages; chorus reeds are used in combination with other reeds or to add "fire" to the Principal/Diapason chorus. The reeds on the Johannus WM-47 organ are printed in red ink.

Harmonic Corroborating Stops

MIXTURES - Mixtures contain multiple pipes sounding simultaneously and are indicated by a roman numeral after the name. These stops add brightness and clarity to the choruses of the organ. For example, adding the Full Mixture IV to the Open Diapason 8', Octave 4' and Super Octave 2' on the Great adds clarity and sparkle needed for large congregations or rousing hymns.

MUTATIONS - Mutations is usually a stop of flute or principal tone which speaks at a pitch not related to the fundamental by an octave and are indicated by fractional numbers after the name. A 2 2/3' pipe sounds an octave and a fifth above the note you play; 1 3/5' two octaves and a third. These add interesting color when used with the fundamental pitches (8' flute, etc.) of the organ.

HYBRIDS - These are stops that could fall into more that one of the families of stops. The Johannus WM-47 organ has some gemshorn stops that are hybrid between flute and string, but lean more toward the string sound.

Percussion Voices

The Johannus WM-47 organ has a percussive solo stop called chimes. They are played from the Great keyboard. If the key is struck and released quickly, the chime will decay quickly. To make the chime ring longer, simply hold the key down longer.

PITCHES OF ORGAN STOPS

The numbers associated with the names of the stops indicate the pitch at which the stop will sound. 8' (eight foot) is the basic pitch on the manuals (keyboards) and is the pitch at which a piano sounds. Dividing or multiplying the 8' pitch results in higher or lower pitches. For example, if you play middle C on a 4' stop it will sound one octave higher than middle C; 2' would be two octaves higher. 16' stops are an octave lower than 8' stops; 32' stops are two octaves lower. See Mutations under Families of Organ Stops for explanations of fractional pitches.



BASIC REGISTRATION CONCEPTS

In church services, the primary use of the organ is accompaniment of congregational singing. Proper registration will help encourage the congregation to sing. Consider the following items when choosing stops for a hymn:

- Will the registration adequately support the congregation?
- Using stops from the diapason/principal chorus especially at the 8' level is the beginning of a good foundation.
- For singers in a congregation to still be able to hear the organ and be encouraged to sing, stops above the 8' level (i.e. 4' and higher for brighter hymns) in the hands are necessary, except for the softest of hymns, such as some verses of sacrament hymns.
- Using Pedal stops will add necessary support to the hymn. Use at least 16' and 8' Pedal stops.
- Read the text of the hymn.
- Use registrations that reflect the message of the hymn.
- Diapasons/principals at 8', 4', 2' and a Mixture in the hands would be appropriate for a hymn such as "The Spirit of God," but would not be suitable for a sacramental hymn.
- The organ must provide a solid pitch for the singers.
- DO NOT use tremulant for congregational singing. It makes it too difficult for the singers to find their pitches.
- Celestes may also make it difficult for singers to find their proper pitches.
- Inspire the congregation to sing.
- Change registration between verses when appropriate.
- Don't be timid. Play loud enough that the congregation doesn't feel "alone," however, do not overpower the congregation. Remember that you are closer to the source of organ sound than the singers are and the organ may sound too loud to you but may not be supporting the congregation adequately.

SUGGESTED HYMN REGISTRATIONS

Quiet Hymn

| Great | | Swell | | Pedal | |
|----------------|----|---------------|----|------------|-----|
| Open Diapason | 8' | Gedeckt | 8' | Bourdon | 16' |
| Harmonic Flute | 4' | Chimney Flute | 4' | Bass Flute | 8' |
| Swell to Great | | | | | |

Moderately Quiet Hymn

| Great | | Swell | | Pedal | |
|----------------|----|---------------|----|---------------|-----|
| Open Diapason | 8' | Diapason | 8' | Open Diapason | 16' |
| Octave | 4' | Gedeckt | 8' | Octave | 8' |
| Swell to Great | | Principal | 4' | | |
| | | Chimney Flute | 4' | | |

Medium Hymn

| Great | | Swell | | Pedal | |
|----------------|----|---------------|----|---------------|-----|
| Open Diapason | 8' | Diapason | 8' | Open Diapason | 16' |
| Stopped Flute | 8' | Gedeckt | 8' | Octave | 8' |
| Octave | 4' | Principal | 4' | Choral Bass | 4' |
| Harmonic Flute | 4' | Chimney Flute | 4' | | |
| Swell to Great | | Piccolo | 2' | | |

Moderately Strong Hymn

| Great | | Swell | | Pedal | |
|----------------|----|---------------|----|---------------|-----|
| Open Diapason | 8' | Diapason | 8' | Open Diapason | 16' |
| Stopped Flute | 8' | Gedeckt | 8' | Octave | 8' |
| Octave | 4' | Principal | 4' | Choral Bass | 4' |
| Harmonic Flute | 4' | Chimney Flute | 4' | | |
| Super Octave | 2' | Piccolo | 2' | | |
| Swell to Great | | | | | |

Moderately Strong Hymn

| Great | | Swell | | Pedal | |
|----------------|----|---------------|----|----------------|-----|
| | 8' | | 8' | | 16' |
| Open Diapason | - | Diapason | - | Open Diapason | 16' |
| Stopped Flute | 8' | Gedeckt | 8' | Octave | 8' |
| Octave | 4' | Principal | 4' | Choral Bass | 4' |
| Harmonic Flute | 4' | Chimney Flute | 4' | Swell to Pedal | |
| Super Octave | 2' | Piccolo | 2' | | |
| Swell to Great | | Oboe | 8' | | |

Strong Hymn

| Great | | Swell | | Pedal | |
|----------------|--------|---------------|----|----------------|-----|
| Open Diapason | 8' | Diapason | 8' | Open Diapason | 16' |
| Stopped Flute | 8' | Gedeckt | 8' | Bourdon | 16' |
| Claribel Flute | 8' | Principal | 4' | Octave | 8' |
| Octave | 4' | Chimney Flute | 4' | Bass Flute | 8' |
| Harmonic Flute | 4' | Piccolo | 2' | Choral Bass | 4' |
| Octave Quint | 2 2/3' | Mixture | IV | Mixture | III |
| Super Octave | 2' | | | Great to Pedal | |
| Full Mixture | IV | | | Swell to Pedal | |
| Swell to Great | | | | | |

Strong Hymn

| Great | | Swell | | Pedal | |
|----------------|--------|---------------|----|----------------|-----|
| Open Diapason | 8' | Diapason | 8' | Open Diapason | 16' |
| Stopped Flute | 8' | Gedeckt | 8' | Bourdon | 16' |
| Octave | 4' | Principal | 4' | Octave | 8' |
| Harmonic Flute | 4' | Chimney Flute | 4' | Bass Flute | 8' |
| Octave Quint | 2 2/3' | Piccolo | 2' | Choral Bass | 4' |
| Super Octave | 2' | Mixture | IV | Mixture | III |
| Full Mixture | IV | Trumpet | 8' | Fagotto | 16' |
| Swell to Great | | • | | Great to Pedal | |
| | | | | Swell to Pedal | |

Strong Hymn (Perhaps Final Verse)

| Great | | Swell | | Pedal | |
|----------------|--------|---------------|----|----------------|-----|
| Bourdon | 16' | Diapason | 8' | Contra Violone | 32' |
| Open Diapason | 8' | Gedeckt | 8' | Open Diapason | 16' |
| Stopped Flute | 8' | Principal | 4' | Bourdon | 16' |
| Octave | 4' | Chimney Flute | 4' | Octave | 8' |
| Harmonic Flute | 4' | Piccolo | 2' | Bass Flute | 8' |
| Octave Quint | 2 2/3' | Mixture | IV | Choral Bass | 4' |
| Super Octave | 2' | Trumpet | 8' | Mixture | III |
| Full Mixture | IV | Clarion | 4' | Fagotto | 16' |
| Posaune | 8' | | | Trumpet | 8' |
| Swell to Great | | | | Clarion | 4' |
| | | | | Great to Pedal | |
| | | | | Swell to Pedal | |

SUGGESTED PRELUDE REGISTRATIONS

| Both Hands on Or | ne Manua | 1 | | | |
|--|-----------|--|----------------------|--|-----------|
| Great Gemshorn Gemshorn Celeste Swell to Great | 8' 8' | Swell Gedeckt Flute Celeste Viola di Gamba Voix Celeste | 8' 8' 8' 8' | Pedal Echo Bourdon Swell to Pedal | 16' |
| Great Stopped Flute | 8' | Swell Viola di Gamba Voix Celeste | 8' 8' | Pedal Echo Bourdon | 16' |
| Great Stopped Flute Harmonic Flute Swell to Great | 8' 4' | Swell Gedeckt Flute Celeste | 8' 8' | Pedal Echo Bourdon Great to Pedal | 16' |
| Melody on Great, | Accompa | niment on Swell | | | |
| Great Cromorne | 8' | Swell Viola di Gamba Voix Celeste | 8' 8' | Pedal Echo Bourdon Swell to Pedal | 16' |
| Great Bourdon Harmonic Flute Tremulant | 16' 4' | Swell Gedeckt | 8, | Pedal Echo Bourdon | 16' |
| Great Chimes | | Swell Viola di Gamba Voix Celeste Aeoline Celeste II | 8' 8' 8' | Pedal Echo Bourdon Swell to Pedal | 16' |
| Great Posaune | 8' | Swell Gedeckt Chimney Flute | 8' 4' | Pedal Echo Bourdon Bass Flute | 16' 8' |

29 **JOHANNUS WM-47**

Melody on Swell, Accompaniment on Great

| Great Gemshorn Gemshorn Celeste | 8' 8' | Swell English Horn | 8' | Pedal Echo Bourdon Great to Pedal | 16' |
|---|----------------|--|------------------------------------|--|-----------|
| Great Stopped Flute | 8' | Swell Gedeckt Nasard Tremulant | 8' 2 2/3' | Pedal Echo Bourdon Great to Pedal | 16' |
| Great Stopped Flute Gemshorn Gemshorn Celeste | 8' 8' 8' | Swell Gedeckt Chimney Flute Nasard Piccolo Tierce | 8' 4' 2 2/3' 2' 1 3/5' | Pedal Echo Bourdon Great to Pedal | 16' |
| Great Gemshorn Gemshorn Celeste | 8' 8' | Swell Gemshorn Gedeckt Chimney Flute Piccolo Tremulant | 16' 8' 4' 2' | Pedal Echo Bourdon Bass Flute | 16' 8' |
| Great Stopped Flute Harmonic Flute | 8' 4' | Swell Oboe | 8' | Pedal Echo Bourdon Great to Pedal | 16' |

HYMN PLAYER CONTENTS

| A | |
|--|-------|
| A Mighty Fortress Is Our God | |
| A Poor Wayfaring Man of Grief | 29 |
| Abide with Me! | |
| Abide with Me; 'Tis Eventide | |
| All Creatures of Our God and King | |
| All Glory, Laud, and Honor | 69 |
| An Angel from on High | |
| Angels We Have Heard on High | |
| As I Search the Holy Scriptures | 277 |
| As Sisters in Zion | |
| As the Dew from Heaven Distilling | 149 |
| Away in a Manger | 206 |
| | |
| <u>B</u> | |
| Be Thou Humble | 130 |
| Because I Have Been Given Much | |
| Behold! A Royal Army | |
| Behold the Great Redeemer Die | 191 |
| | |
| С | |
| Called to Serve | |
| Carry On | |
| Children of Our Heavenly Father | |
| Choose the Right | 239 |
| Christ the Lord Is Risen Today | 200 |
| Come, All Ye Sons of God | 322 |
| Come, Come, Ye Saints | 30 |
| Come, Follow Me | |
| Come, Listen to a Prophet's Voice | |
| Come, O Thou King of Kings | |
| Come, Thou Glorious Day of Promise | |
| Come unto Jesus | |
| Come, We That Love the Lord | |
| Come, Ye Children of the Lord | |
| Come, Ye Thankful People | |
| Count Your Blessings | |
| 30 and 10 at 2100011150 mmmmmmmmmmmmmmmmmmmmmmmmmmmmmm | = 11 |
| D | |
| Dear to the Heart of the Shepherd | 221 |
| Dearest Children, God Is Near You | |
| Did You Think to Pray? | |
| Do What Is Right | |
| · · · · · · · · · · · · · · · · · · · | |
| E | |
| Each Life That Touches Ours for Good | 293 |
| Zaro and a cucies out of 101 dood minimum | = , 0 |
| F | |
| Families Can Be Together Forever | 300 |
| Far, Far Away on Judea's Plains | |
| Father in Heaven | |
| For the Beauty of the Earth | |
| For the Strength of the Hills | |
| Tor the strength of the Hills | |
| G | |
| Gently Raise the Sacred Strain | 1/6 |
| | |
| Glory to God on High | |
| God Powith You Till We Most Again | |
| God Bless Over Breeket Door | |
| God Bless Our Prophet Dear | 2.4 |

| God Is Love87 |
|---|
| God Loved Us, So He Sent His Son187 |
| God of Our Fathers, Whose Almighty Hand78 |
| God, Our Father, Hear Us Pray170 |
| God's Daily Care306 |
| Guide Us, O Thou Great Jehovah83 |
| |
| Н |
| Hark, All Ye Nations!264 |
| Hark! The Herald Angels Sing209 |
| Have I Done Any Good?223 |
| He Is Risen! |
| Help Me Teach with Inspiration281 |
| High on the Mountain Top5 |
| Home Can Be a Heaven on Earth298 |
| Hope of Israel259 |
| How Firm a Foundation85 |
| How Gentle God's Commands125 |
| How Great the Wisdom and the Love195 |
| How Great Thou Art86 |
| How Wondrous and Great267 |
| |
| I |
| I Am a Child of God301 |
| I Believe in Christ134 |
| I Heard the Bells on Christmas Day214 |
| I Know My Father Lives302 |
| I Know That My Redeemer Lives136 |
| I Need Thee Every Hour98 |
| I Stand All Amazed193 |
| I'll Go Where You Want Me to Go270 |
| Improve the Shining Moments226 |
| In Humility, Our Savior172 |
| In Memory of the Crucified190 |
| In Our Lovely Deseret307 |
| Israel, Israel, God Is Calling7 |
| It Came upon the Midnight Clear207 |
| |
| <u> </u> |
| Jehovah, Lord of Heaven and Earth269 |
| Jesus, Lover of My Soul |
| Jesus, Once of Humble Birth |
| Jesus, the Very Thought of Thee141 |
| Joseph Smith's First Prayer26 |
| Joy to the World201 |
| Joy to the world201 |
| K |
| Keep the Commandments303 |
| 1.00p v.10 00 |
| L |
| Lead, Kindly Light97 |
| Let the Holy Spirit Guide143 |
| Let Us All Press On243 |
| Let Us Oft Speak Kind Words232 |
| Lord, Dismiss Us with Thy Blessing163 |
| Lord, I Would Follow Thee220 |
| Lord, We Ask Thee Ere We Part153 |
| Love at Home294 |
| Love One Another 308 |

| M |
|---|
| Master, the Tempest Is Raging105 |
| More Holiness Give Me131 |
| My Redeemer Lives135 |
| |
| N |
| Nearer, My God, to Thee100 |
| Now Let Us Rejoice3 |
| Now the Day Is Over159 |
| |
| 0 |
| Oh, Come, All Ye Faithful202 |
| O God, the Eternal Father175 |
| O Little Town of Bethlehem208 |
| O Love That Glorifies the Son295 |
| 0 My Father292 |
| Oh Say, What Is Truth?272 |
| O Thou Kind and Gracious Father150 |
| Onward, Christian Soldiers246 |
| Our Savior's Love113 |
| |
| P |
| |
| Praise God, from Whom All Blessings Flow242 |
| Praise to the Man27 |
| Praise to the Man27 Prayer Is the Soul's Sincere Desire145 |
| Praise to the Man |
| Praise to the Man 27 Prayer Is the Soul's Sincere Desire 145 Prayer of Thanksgiving 93 Press Forward, Saints 81 Put Your Shoulder to the Wheel 252 Redeemer of Israel 6 Rejoice, the Lord Is King! 66 Rise, Ye Saints, and Temples Enter 287 S Scatter Sunshine 230 |
| Praise to the Man 27 Prayer Is the Soul's Sincere Desire 145 Prayer of Thanksgiving 93 Press Forward, Saints 81 Put Your Shoulder to the Wheel 252 Redeemer of Israel 6 Rejoice, the Lord Is King! 66 Rise, Ye Saints, and Temples Enter 287 S Scatter Sunshine 230 Secret Prayer 144 |
| Praise to the Man 27 Prayer Is the Soul's Sincere Desire 145 Prayer of Thanksgiving 93 Press Forward, Saints 81 Put Your Shoulder to the Wheel 252 Redeemer of Israel 6 Rejoice, the Lord Is King! 66 Rise, Ye Saints, and Temples Enter 287 S Scatter Sunshine 230 Secret Prayer 144 Silent Night 204 |
| Praise to the Man 27 Prayer Is the Soul's Sincere Desire 145 Prayer of Thanksgiving 93 Press Forward, Saints 81 Put Your Shoulder to the Wheel 252 Redeemer of Israel 6 Rejoice, the Lord Is King! 66 Rise, Ye Saints, and Temples Enter 287 S Scatter Sunshine 230 Secret Prayer 144 Silent Night 204 Sing We Now at Parting 156 |
| Praise to the Man 27 Prayer Is the Soul's Sincere Desire 145 Prayer of Thanksgiving 93 Press Forward, Saints 81 Put Your Shoulder to the Wheel 252 Redeemer of Israel 6 Rejoice, the Lord Is King! 66 Rise, Ye Saints, and Temples Enter 287 S Scatter Sunshine 230 Secret Prayer 144 Silent Night 204 Sing We Now at Parting 156 Softly Now the Light of Day 160 |
| Praise to the Man 27 Prayer Is the Soul's Sincere Desire 145 Prayer of Thanksgiving 93 Press Forward, Saints 81 Put Your Shoulder to the Wheel 252 Redeemer of Israel 6 Rejoice, the Lord Is King! 66 Rise, Ye Saints, and Temples Enter 287 S Scatter Sunshine 230 Secret Prayer 144 Silent Night 204 Sing We Now at Parting 156 |

| T |
|--|
| Teach Me to Walk in the Light304 |
| Testimony137 |
| The Day Dawn Is Breaking52 |
| The First Noel213 |
| The Iron Rod274 |
| The Light Divine305 |
| The Lord Is My Light89 |
| The Lord Is My Shepherd108 |
| The Morning Breaks1 |
| The Spirit of God2 |
| The Time Is Far Spent266 |
| There Is a Green Hill Far Away194 |
| There Is Sunshine in My Soul Today227 |
| Though Deepening Trials122 |
| Thy Spirit, Lord, Has Stirred Our Souls157 |
| Today, While the Sun Shines229 |
| True to the Faith254 |
| Truth Reflects upon Our Senses273 |
| Turn Your Hearts291 |
| |
| U |
| Upon the Cross of Calvary184 |
| |
| W |
| We Are All Enlisted250 |
| We Are Marching on to Glory225 |
| We Are Sowing216 |
| We Ever Pray for Thee23 |
| We Thank Thee, O God, for a Prophet19 |
| We'll Sing All Hail to Jesus= Name182 |
| Welcome, Welcome, Sabbath Morning280 |
| When Faith Endures128 |
| Where Can I Turn for Peace?129 |
| While of These Emblems We Partake174 |
| With Wondering Awe210 |
| |
| Y |
| Ye Elders Of Israel319 |
| |
| Ye Who Are Called to Labor321 You Can Make the Pathway Bright228 |

MAINTENANCE

Cabinet Maintenance

The cabinet is made of solid wood and wood veneer.



Do not use furniture polish or teak oil to clean the organ cabinet. Direct sunlight may discolor the organ cabinet.

- 1. Clean the organ with a damp cloth.
- 2. Rub the cabinet dry with a lint-free cloth.

Keyboard Maintenance

The keyboards are made of man-made synthetic.



Do not use aggressive cleaning agents such as paint thinner or acetone to remove dirt.

- 1. Clean the keyboards with a damp cloth.
- 2. Rub the manuals dry with a lint-free cloth.
- 3. Remove any scratches with car polish.

WARRANTY

The conditions are specified in the warranty certificate. The warranty becomes null and void if changes or repairs are made to the organ by persons or organizations that are not authorized by Johannus Orgelbouw b.v.

TROUBLESHOOTING

If you are experiencing problems with the organ, check here first. If your problem is not listed or the recommended solution does not correct the problem, please contact your Johannus dealer or see playjohannus.com.

Symptom: Some or all of the pedals don't work.

Solution: Make sure that the pedalboard is slid tightly against the organ console.

Symptom: Some stops are stuck on.

Solution: Make sure the general crescendo pedal is in the zero position (off). The

crescendo pedal lights stops as they are activated and cannot be canceled

manually or with the cancel piston.

Symptom: I cannot program a piston.

Solution: Make sure you are not trying to program pistons on memory level one or two.

Both memory levels one and two are locked and cannot be changed. Please

select a memory level between 3 and 100.

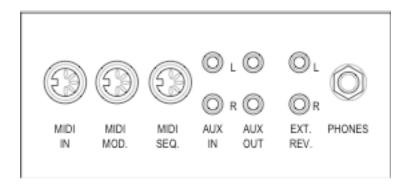
Symptom: My programmed piston does not recall all of the stops I selected.

Solution: Make sure you are using a general piston if you would like to store and recall

stops on all divisions of the organ.

EXTERNAL CONNECTIONS

The external connections are located under the left side of the keyboards.



MIDI IN: This is an input for receiving MIDI codes from other devices.

MIDI MOD: This is a programmable MIDI output for connecting a module or expander.

MIDI SEQ: This is a non-programmable MIDI output for connecting a sequencer or PC (with the Johannus Intonat voicing software).

AUX IN: This is a stereo input for playing the sound of an external device through the amplifiers of the organ. For example, an expander that is connected to the organ through MIDI MOD can be played through the instrument's loudspeakers.

The volume of the device that is connected through the AUX IN cannot be adjusted with the general volume or the expression pedals. However, this is possible if the volume setting of the external device is controlled by means of MIDI codes through the MIDI MOD, connection of the instrument.

AUX OUT: This is an output for connecting an external stereo amplifier or recording device. **EXT. REV.:** This is an output for connecting Johannus external acoustics. This is a system that imitates the spatial effect of a concert hall or cathedral.



Do not use this output for other purposes.

PHONES: This connection for a stereo headphone is suited for a headphone with an impedance of 30Ω or higher (see headphone specifications).

When the headphone is used, the internal and/or external loudspeakers of the organ are automatically switched off.

MIDI IMPLEMENTATION CHART

| Functions | | Transmitted | Recognized | Remarks |
|----------------------|--------------------|----------------|----------------|----------------|
| Basic Channel | Default | See MIDI Specs | See MIDI Specs | See MIDI Specs |
| | Changes | See MIDI Specs | Y | |
| Mode | Default | Mode 3 | Mode 3 | |
| | Messages | N | N | |
| | Altered | ***** | N | |
| Note | True Voice | 36-96 | | |
| Number | | ***** | | |
| Velocity | Note ON | 9nH=1-127 | 9nH=1-127 | Velocity ON |
| | | 9nH (v=64) | 9nH=1-127 | Velocity OFF |
| | Note OFF | 9nH (v=0) | 9nH=0, 8nH | |
| | | | v=* | *=irrelevant |
| After Touch | Keys | N | | |
| | Channels | N | | |
| Pitch Bend | | N | | |
| Control | 7 | Y | Y | General Volume |
| Change | 11 | Y | Y | Expr. Pedals |
| | 100/101/6 | Y | Y | Pitch |
| | 100/101/6 | Y | Y | Transposer |
| Program | : True # | See MIDI Specs | See MIDI Specs | See MIDI Specs |
| Change | ***** | | See MIDI Specs | See MIDI Specs |
| System | | See MIDI Specs | See MIDI Specs | See MIDI Specs |
| Exclusive | | | | |
| Common | : Song Pos | N | N | |
| | : Song Sel | N | N | |
| | : Tune | N | N | |
| System Real | : Clock | N | N | |
| Time | : Commands | N | N | |
| Aux | : Reset All Contr. | N | N | |
| | : Local ON/OFF | N | N | |
| | : All Notes OFF | Y | Y | |
| | : Active Sense | N | N | |
| | : Reset | N | N | |

Mode 1: OMNI ON, POLY Mode 2: OMNI ON, MONO Y = YES Mode 3: ONMI OFF, POLY Mode 4: OMNI OFF, MONO N = NO

MIDI SPECIFICATIONS

Default Basic Channels (transmitted/recognized)

- 1: Great Notes
- 2: Swell Notes
- 3: Pedal Notes
- 12: Stops

Basic Channel Changes (transmitted)

Can be programmed in the Programmable MIDI menu.

Control Changes (transmitted)

Controller 7 (07h) General volume, with volume values 40 (28h) – 127 (7Fh).

Controller 11 (0Bh) Expression pedals, with volume values 63 (3Fh) – 127 (7Fh).

Controller 6 (06h) Pitch, with pitch values 33 (21h) – 95 (5Fh).

Pitch value 64 (40h) = A = 440 Hz. The following applies to pitch:

LSB 100(64h) 1(01h) MSB 101(65h) 0(00h)

Transposer, with transposer values 61 (3Dh) – 67 (43h).

Transposer value 64 (40h) = A = 440 Hz. The following applies to the transposer:

LSB 100(64h) 2(01h) MSB 101(65h) 0(00h)

Control Changes (recognized)

Controller 7 (07h) General volume, transposer 0 (00h) – 127 (7Fh).

Controller 11 (0Bh) Expression pedals, transposer 0 (00Fh) – 127 (7Fh).

Program Changes (transmitted/recognized)

Organ stops: This depends on the number of stops and the sequence of stops.

MIDI stops (programmable): 1-128

System Exclusive Messages (transmitted/recognized)

Each 'sys ex' (system exclusive) message largely looks the same. The first 7 bytes and the last byte are always the same. Only the value of the 8th byte varies. This is the 'sys ex message' that Johannus generally uses: F0 00 4A 4F 48 41 53 XX F7 (hexadecimal).

Therefore, with the 'sys ex messages' described below, only the value of the 8th byte (XX) is given, and from which output it is transmitted.

All stops off

The 'all stops off' sys ex code is 7F. This sys ex code is transmitted through the MIDI SEQ. output when the 0 piston is pressed for a long time.

When an 'all stops off' sys ex code is received, all stops on the instrumentare switched off.

Thumb piston values

When a piston is pressed, a sys ex code is transmitted with the value of the piston that is pressed (for example PP = 00 P = 01) through the MIDI MOD. output.

These sys ex codes are only important when the Johannus sound module CSM 128 is connected to your instrument.

Other MIDI codes (transmitted)

Press the 0 piston to transmit the sys ex code, 'all stops off' and all volume settings through the MIDI SEQ. output.

Sys ex code stops (Program Changes)

When a MIDI stop is switched on and off, besides the usual Program Change, an extra Program Change code (preceded by the sys ex code 3F) is transmitted through the MIDI SEQ. output. This is to distinguish between a 'normal' organ stop and a MIDI stop before transmitting a module.

When a stop is switched on and off, the following codes are transmitted:

Organ stop: Through MIDI SEQ. : CB XX MIDI stop: Through MIDI MOD. : CX XX

Through MIDI SEQ.: CB XX and 3F CX XX

WM-47 SPECIFICATION

| Great | | Swell | | Pedal | |
|---|---|--|--|---|---|
| Bourdon Open Diapason Stopped Flute Claribel Flute Gemshorn Gemshorn Celeste Octave Harmonic Flute Octave Quint Super Octave Full Mixture Cromorne Posaune Chimes Tremulant Swell to Great | 16' 8' 8' 8' 8' 4' 4' 2 2/3' 2' IV 8' 8' | Gemshorn Diapason Gedeckt Flute Celeste Viola di Gamba Voix Celeste Principal Chimney Flute Aeoline Celeste II Nasard Piccolo Tierce Mixture Double Trumpet Trumpet Oboe English Horn Clarion Tuba Tremulant | 16' 8' 8' 8' 8' 8' 4' 4' 4' 2 2/3' 2' 1 3/5' IV 16' 8' 8' 8' | Contra Violone Open Diapason Bourdon Echo Bourdon Octave Bass Flute Choral Bass Mixture Contra Trombone Trombone Fagotto Trumpet Clarion Great to Pedal Swell to Pedal Chorus MIDI Great MIDI Swell MIDI Pedal | 32' 16' 16' 8' 8' 4' III 32' 16' 16' 4' |
| Specification | | Technical Data | | AGO Console | |
| 45 WM-47 Classic Voi 45 French Symphonic 45 German Baroque V 45 Historic Voices Orchestral: Chimes, H 100-level full capture 10 generals / 6 per di General crescendo per ASR-12 Acoustic Reve 3 programmable MID Melody coupler piston Bass coupler piston 16-key transposer Pitch control, +/- half General volume controns SET, +/- and Cancel pin Menu piston | Voices 'oices arp, Piano system vision dal rberation* I pistons o | Audio 6.1 system: 7 amplifiers total 900 19 loudspeakers 7 speaker cabinets Connections: Headphone out Stereo auxiliary in Stereo auxiliary out MIDI in, mod. (out), s Graphical display: 2 expression level inc General crescendo lev Pitch & transposer st 162-hymn player syst Prelude Player | XLR) eq. (out) licators /el atus | 3 custom finishes: - Dark Oak, WM47-95 - Medium Oak, WM47 - Cherry on Oak Solid wooden console 32-note AGO pedalbo 2 x 61-note keyboard Music rack with page Adjustable bench Intonat 5.128 Voicing * control accessible or installer | 7-110 e ard s holders |