

**JOHANNUS** WM-44 LDS  
User's Guide

## INTRODUCTION

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The Johannus WM-44 LDS 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.

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## SAFETY PRECAUTIONS

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- ✓ 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

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Warning or important information.



Note.

## **MANUFACTURER**

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## **TECHNICAL ASSISTANCE AND SERVICE**

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Johannus-LDS Support  
Telephone: 877-JOH-WM44 (877-564-9644)  
E-mail: [help@johannus-lds.com](mailto:help@johannus-lds.com)

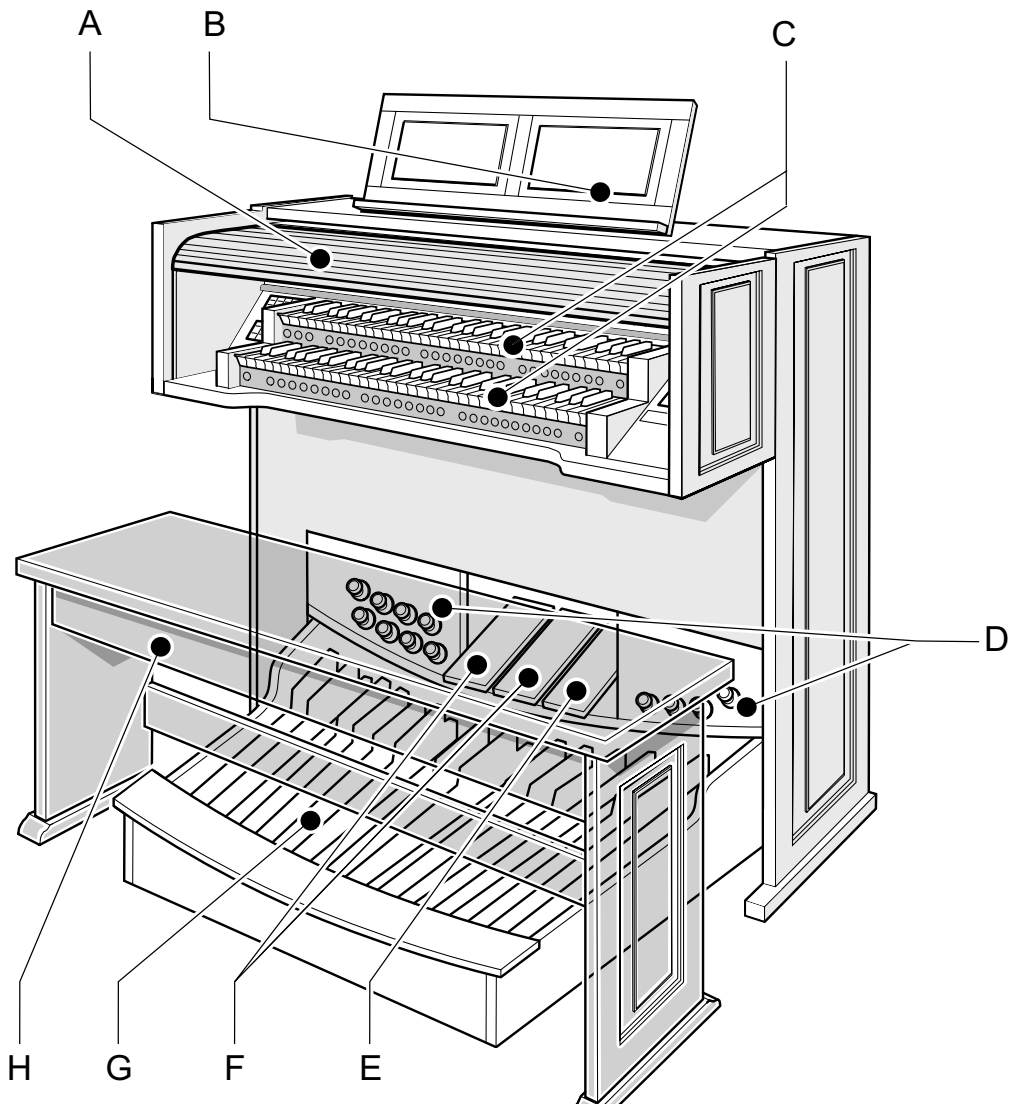
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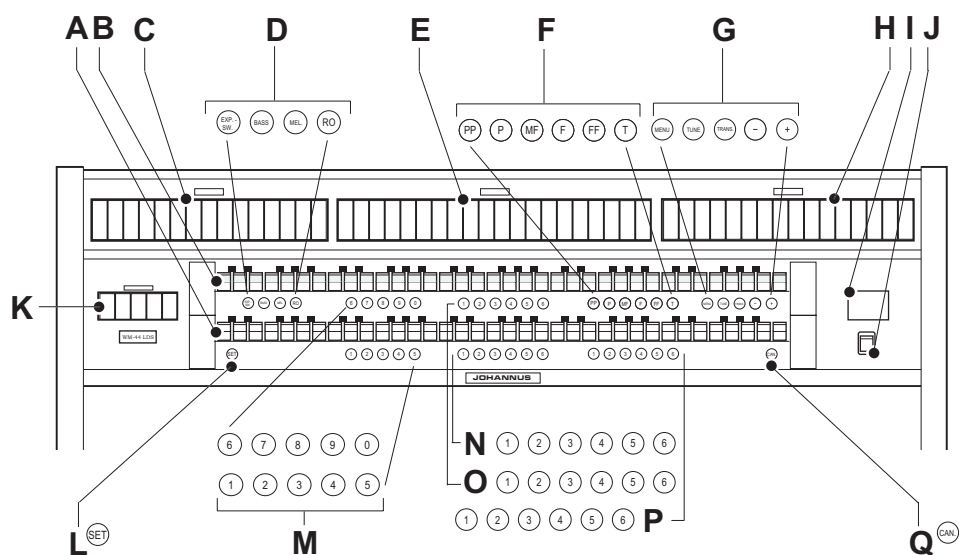
## OVERVIEW OF MAIN COMPONENTS

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- A Rolltop cover
- B Music desk
- C Manuals
- D Toe Studs
- E General Crescendo
- F Expression pedals (shoes)
- G Pedalboard
- H Bench

## OVERVIEW OF CONTROLS

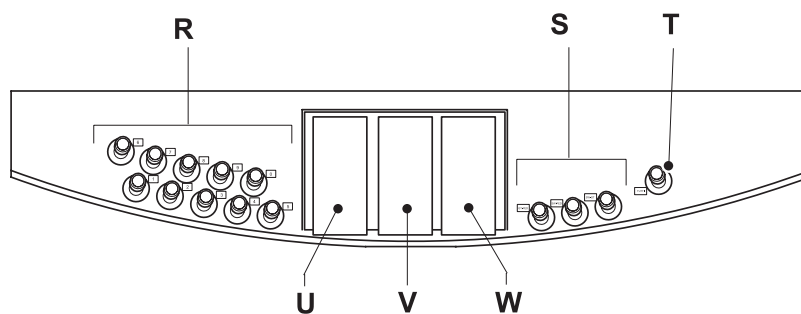


For a detailed description of functions see page number listed next to each feature.

- |                           |                                      |
|---------------------------|--------------------------------------|
| <b>A</b> Great Manual 7   | <b>H</b> Great Stops 7               |
| <b>B</b> Swell Manual 7   | <b>I</b> Display                     |
| <b>C</b> Pedal Stops 7    | <b>J</b> Power Switch                |
| <b>D</b> EXP-SW 9         | <b>K</b> Chorus 21                   |
| BASS 14                   | Organ 2 21                           |
| MEL. 14                   | MIDI Couplers 22                     |
| RO 22                     | <b>L</b> SET 19                      |
| <b>E</b> Swell Stops 7    | <b>M</b> General Pistons 12          |
| <b>F</b> PP-FF Presets 11 | <b>N</b> Great Divisional Pistons 12 |
| <b>G</b> MENU 15, 23      | <b>O</b> Swell Divisional Pistons 12 |
| TUNE 20                   | <b>P</b> Pedal Divisional Pistons 12 |
| TRANS. 20                 | <b>Q</b> General CANCEL 7            |
| - / + 13                  |                                      |

## OVERVIEW OF TOE STUDS AND EXPRESSION SHOES

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

**R** General Toe Studs *12*

**S** Couplers *8*

**T** Tutti *23*

**U** Great/Pedal Expression *9*

**V** Swell Expression *9*

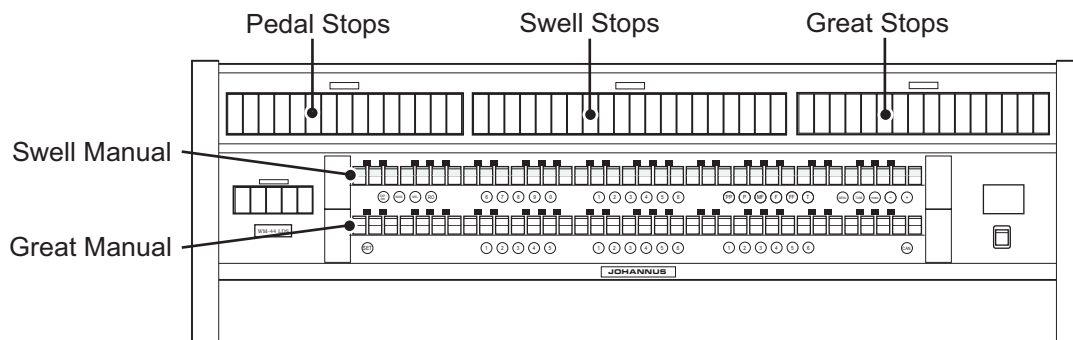
**W** Crescendo *10*

## ACTIVATING STOPS

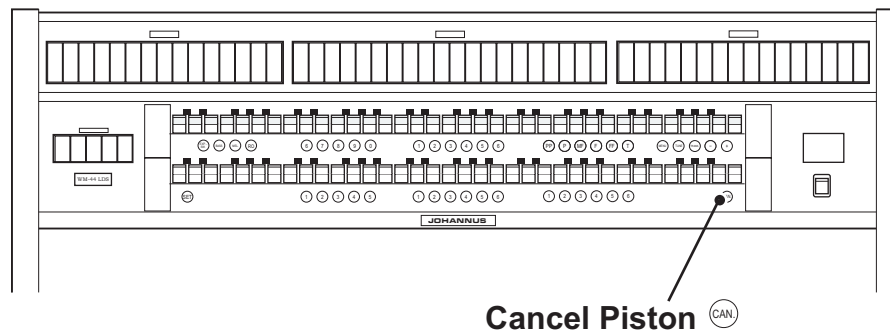
Stops control the voices of the organ and have various names. When a stop is activated you will hear its voice when keys are played. For a more detailed description of each stop and how they can be used, see the section on stops and registration.

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.

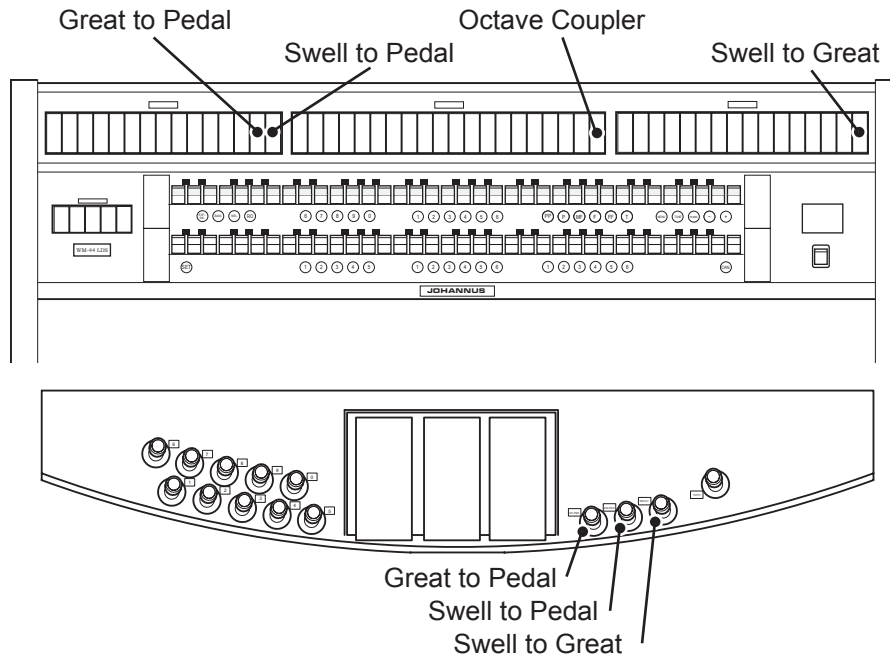


To turn off all stops at once, press the *general cancel piston*.



## 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.

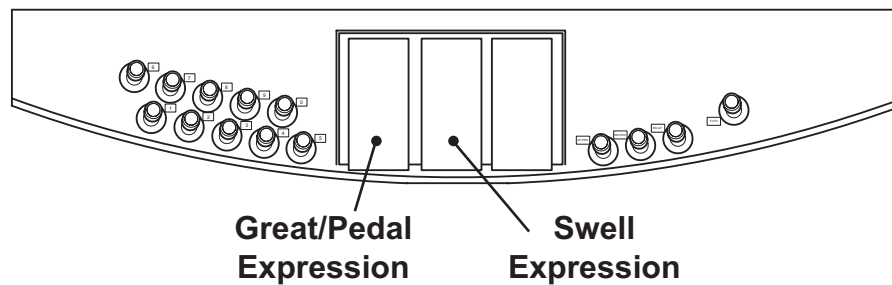


- Great to Pedal links the activated Great stops to the Pedal division.
- Swell to Pedal links the activated Swell stops to the Pedal division.
- Swell to Great links the activated Swell stops to the Great division.

Octave Coupler duplicates the Swell stops up an octave. For example, if you still have the Swell Diapason 8' activated, play only one note on the Swell. Now activate the Octave Coupler, when you play a key now you will hear the note at the pitch played and at one octave higher.

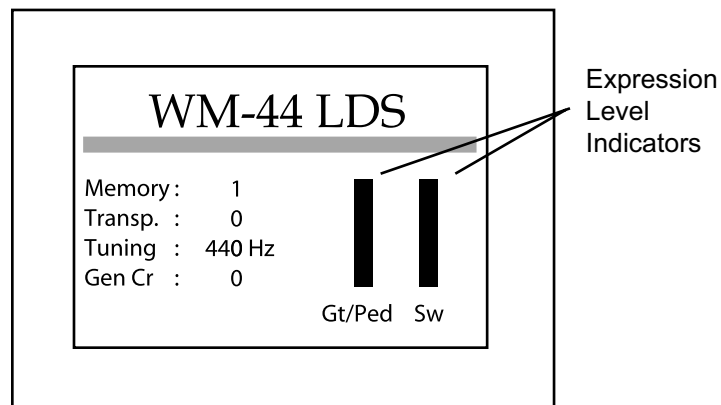
## CONTROLLING VOLUME LEVEL

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.



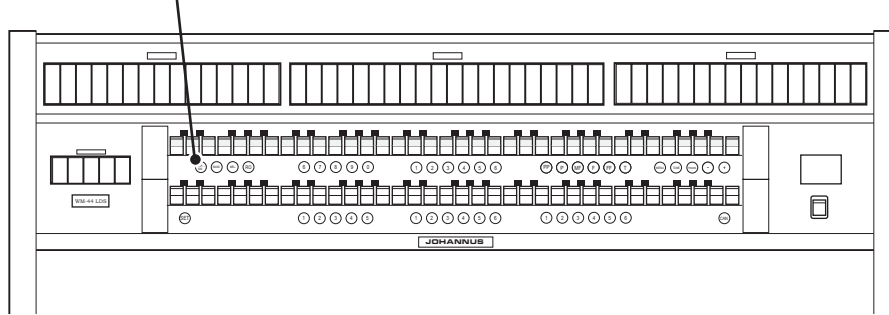
- ☞ The general volume of your Johannus WM-44 LDS has been set by the installer to successfully accompany congregational singing with the expression shoes fully open or pressed forward.

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.

## Expression on Swell

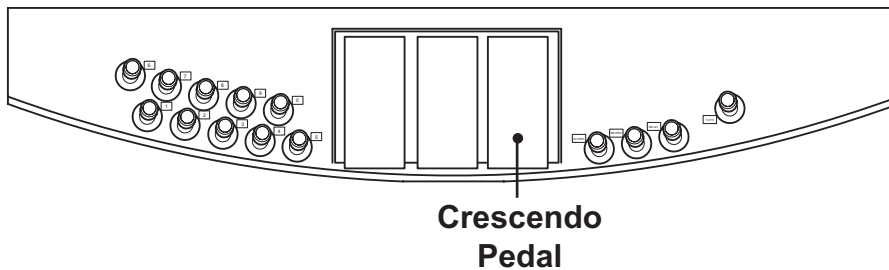


### BASIC FUNCTIONS

## CRESCENDO PEDAL

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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.*



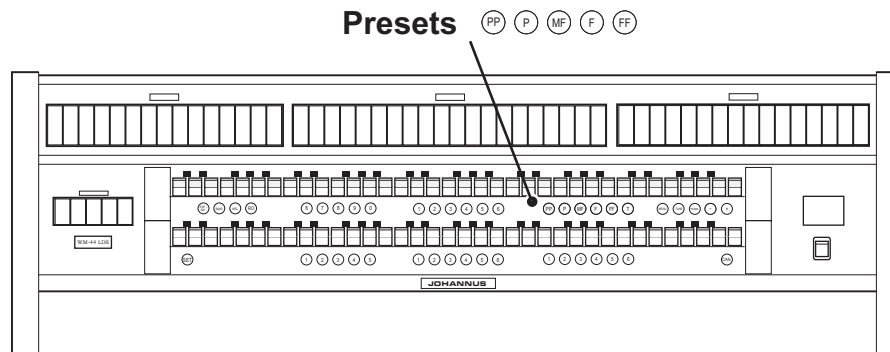
If you cannot get some stops to turn off, check to make sure that the crescendo shoe is not pressed forward.

## USING PRESET PISTONS PP-FF

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*Pistons* are used to control the stops on an organ quickly. Pistons can be preset or programmed for your own taste. In this section, we will discuss preset pistons.

The preset pistons labeled PP, P, MF, F, and FF are designed to give the new organist a starting point in selecting stops. These preset pistons are labeled with musical dynamic markings to help you get started quickly. For example, if you are playing prelude music you would like to select quiet stops. PP or P would be good choices for prelude music. If you are playing congregational hymns, try MF or F. For the final verse of a rousing hymn, you might use FF.



Using the preset pistons labeled PP, P, MF, F, and FF does not change the volume of the organ. The organ is louder on FF than on PP only because more stops are being used.

## GENERAL AND DIVISIONAL PISTONS

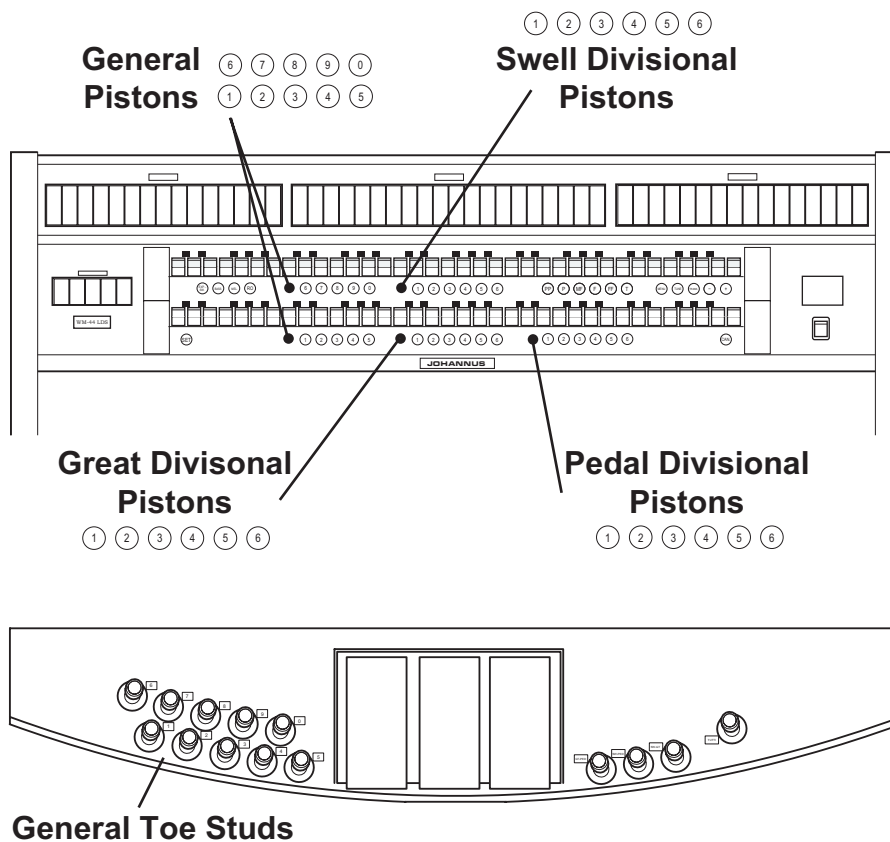
Pistons (or combination memory) are used to quickly recall stop settings. Pistons can be preset or programmed by the organist. The WM-44 LDS has several sets of pistons to assist you in playing the organ.

*General Pistons* control stops in all divisions (Swell, Great, and Pedal) of the organ. They are duplicated on toe studs.

*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.



## 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.

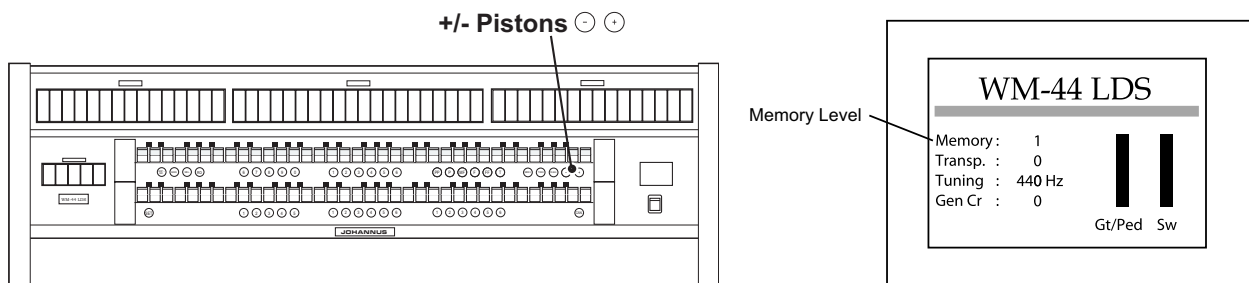
When the organ is turned on, memory level 1 is selected by default.

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:

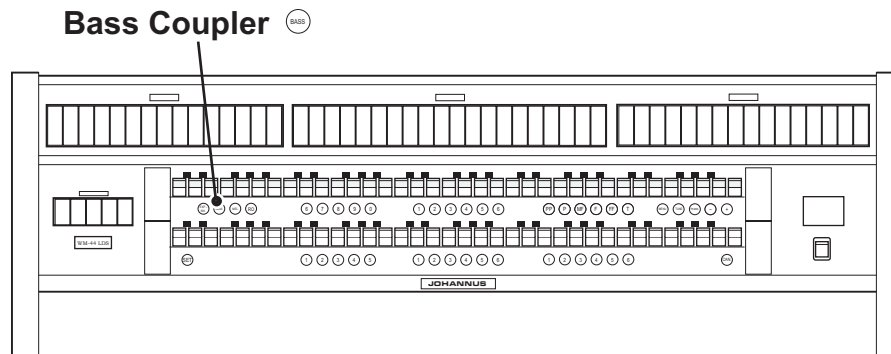
The preset pistons for prelude are located on *memory level 2*. Current memory level is indicated in the display. To advance to memory level 2, press the + piston. Pressing the + and – pistons change memory levels. Current memory level is shown in the display.



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

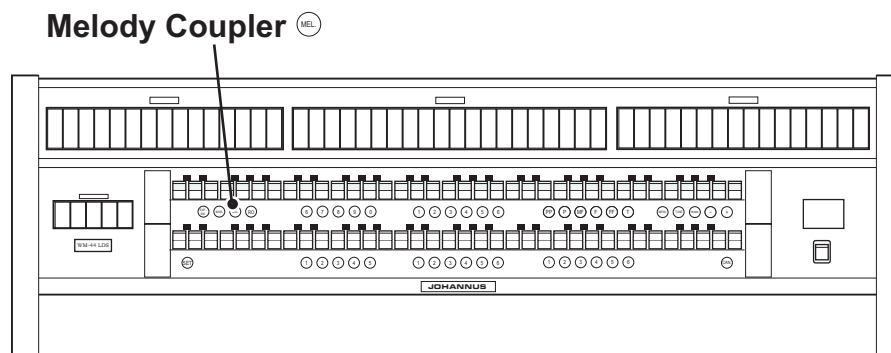
- ☞ General pistons 1-5 are programmed to play the melody (one note at a time) on the Great manual with the accompaniment on the Swell manual. Alternatively, all parts may be played on the Swell manual only.
- ☞ General pistons 6-0 are programmed to play the melody (one note at a time) on the Swell manual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

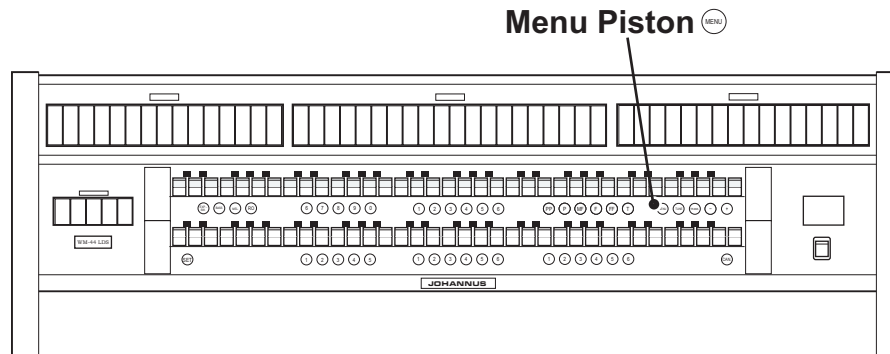
BASIC FUNCTIONS  
**HYMN PLAYER**

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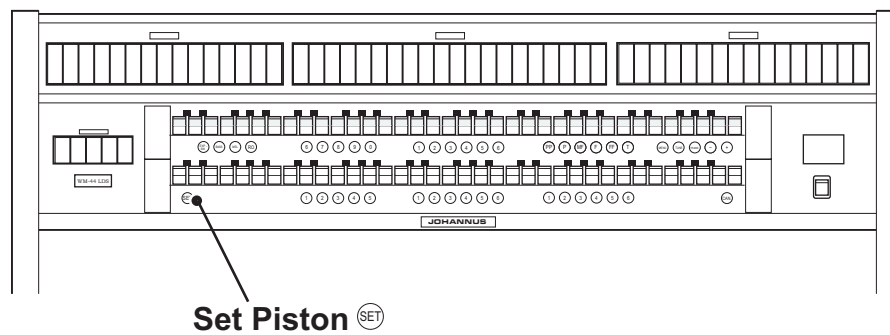
The Johannus WM-44 LDS organ has the ability to play 162 hymns.

**To activate Hymn Player:**

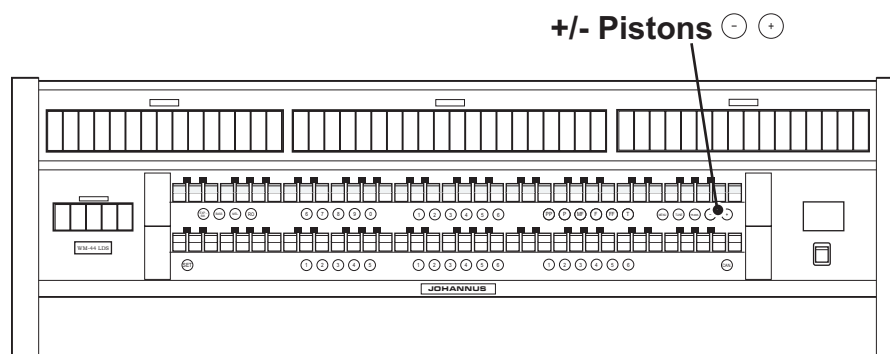
1. Press the MENU piston.



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 select Hymn Player.
3. Press SET to select Hymn Player.



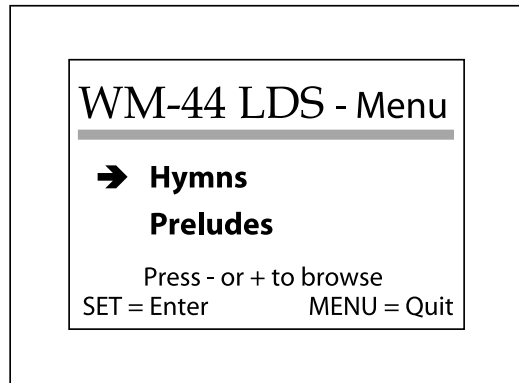
4. Use the + or - pistons to select Hymns or Preludes as indicated by the arrow on the display.



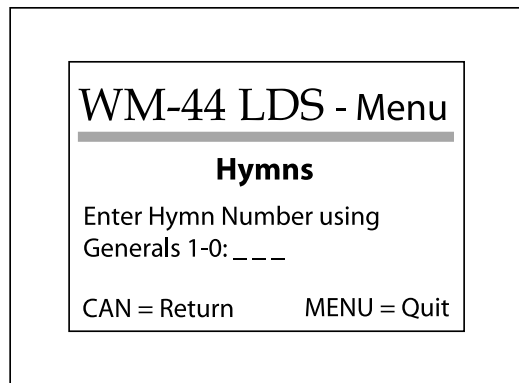
5. Follow instructions for playing hymns or preludes below.

**To play a hymn:**

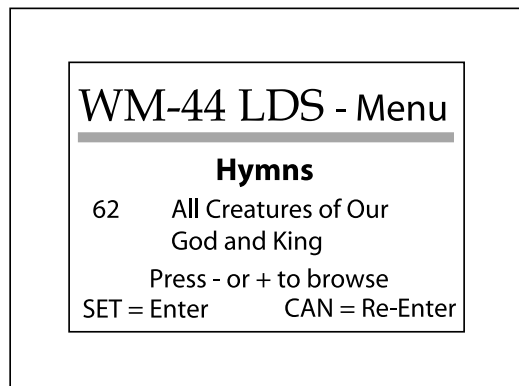
1. Activate the Hymn Player as described above and select Hymns in step four.



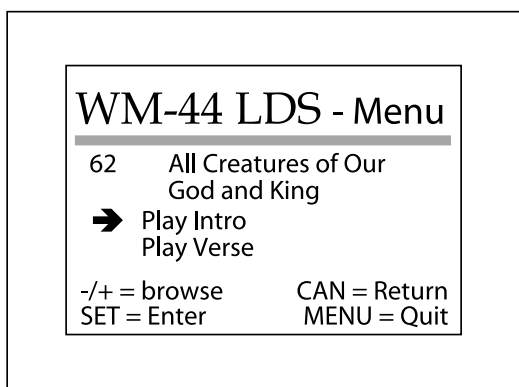
2. Press SET to enter Hymns mode.
3. Enter the hymn number from the English edition of *Hymns* using the general pistons. Three digits must be entered; i.e. to play hymn number 62 you must press general pistons 0, 6, 2.



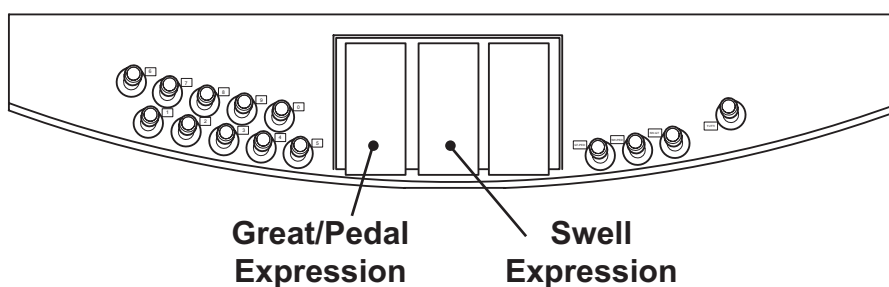
4. Your hymn selection is shown on the display.



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 "Intro" or "Verse".



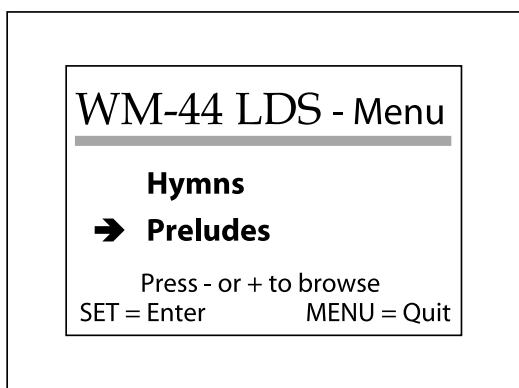
7. Press SET to begin playing the introduction or verse.
8. Adjust the volume using the Swell expression shoe.



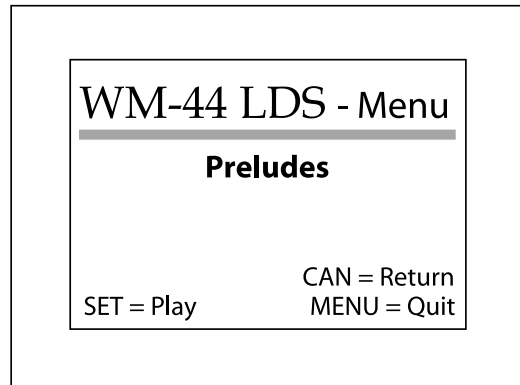
9. Press SET at the end of the introduction or verse to play another verse of the same hymn.
10. Press MENU several times to return to the main screen.

**To play prelude music:**

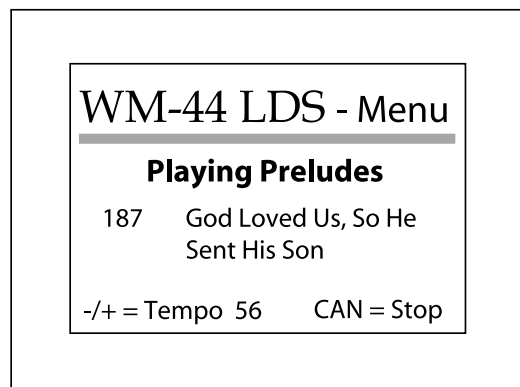
1. Activate the Hymn Player as described above and select Preludes in step four.



2. Press SET to enter Preludes mode.



3. Press SET again to confirm.
4. Press SET again to begin playing Preludes.



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.



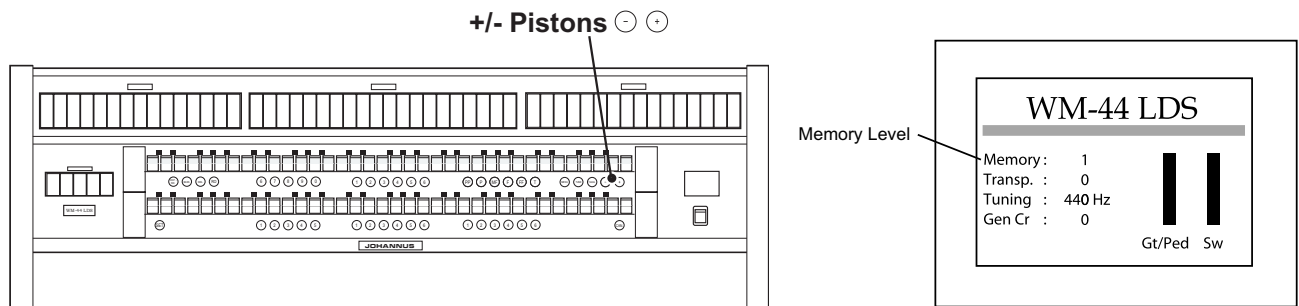
The Prelude Player always plays the preludes in the same order for smooth transitions from song to song. However, it always begins with a different hymn to increase variety. The prelude player contains 30 hymns played twice each.

## PROGRAMMING PISTONS

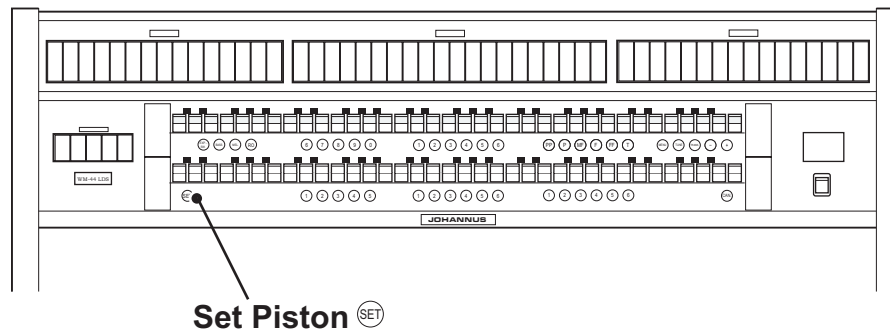
The Johannus WM-44 LDS features 32 memory levels. Memory levels 1 and 2 are preset and cannot be changed. However, memory levels 3-32 are available to program as needed.

Program pistons as follows:

1. Select a memory level (3-32) by using the + and – pistons.



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



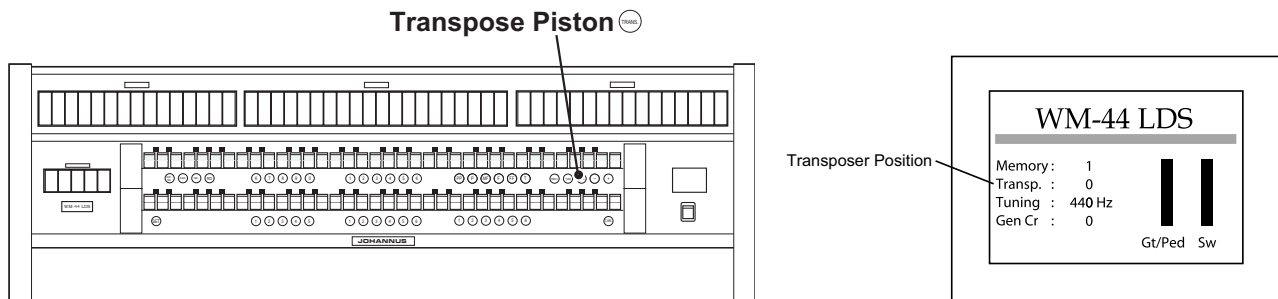
4. Press and release the piston you wish to program.
5. Release SET.

- ☞ 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.

## 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.

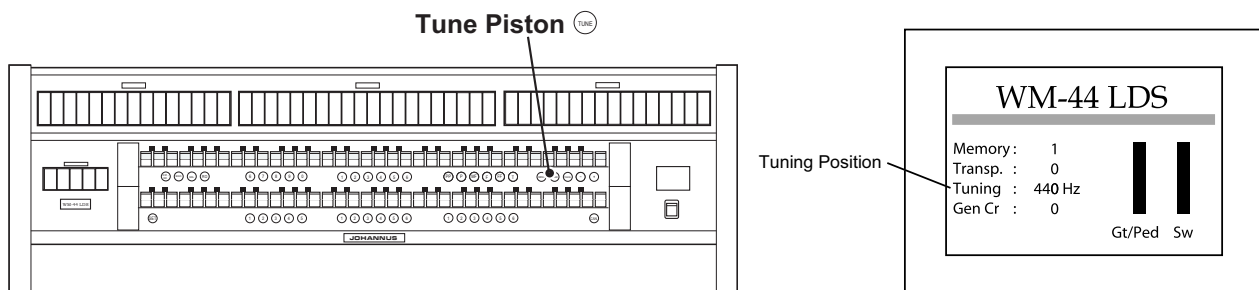


- ☞ You must press + or – before the TRANS. piston light goes out (about 5 seconds). When TRANS. is not lit, + and – change memory levels.
- ☞ When the organ is turned off, the transposer will automatically reset to the 0 position.

## 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.

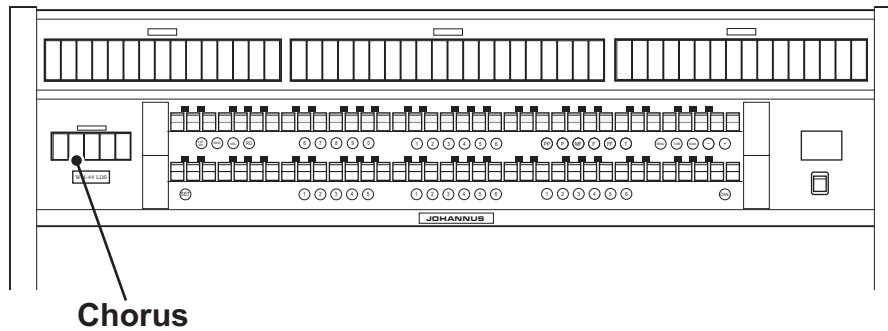


- ☞ You must press + or – before the TUNE piston light goes out (about 5 seconds). When TUNE is not lit, + and – change memory levels.
- ☞ When the organ is turned off, the tuning will automatically return to the standard A440.

## CHORUS TUNING

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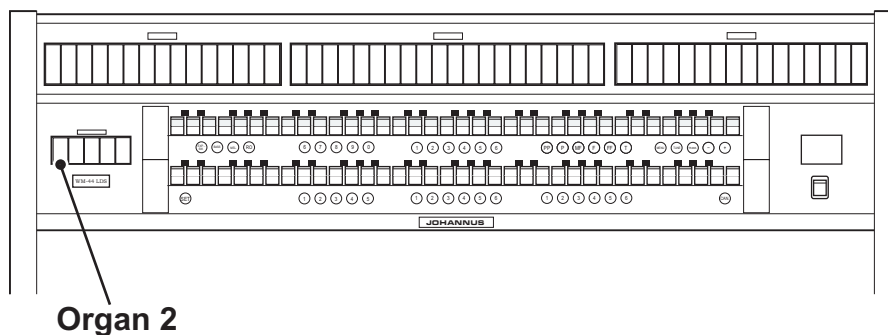
A pipe organ is never perfectly in tune. That is part of what gives a pipe organ its character. By activating the CHORUS tab, the tuning between different stops on the organ becomes more varied to imitate this characteristic of a pipe organ.



## ORGAN 2

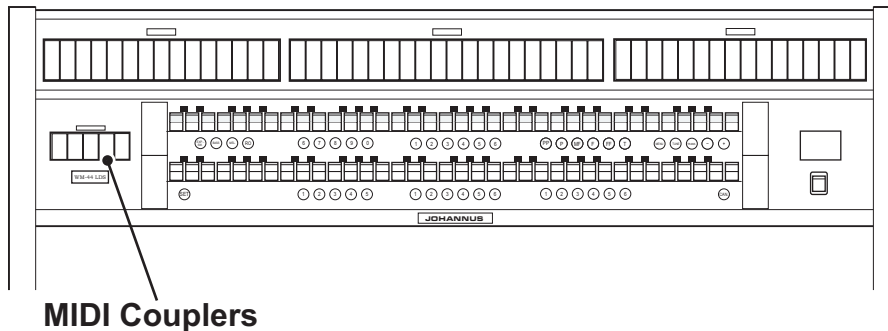
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Pipe organs are built in many styles. The primary style of the Johannus WM-44 LDS is American Classic. It is possible to change the style of the organ to Baroque by pressing the ORGAN 2 tab. When the ORGAN 2 tab is pressed all of the stops are changed to recordings of continental European pipe organs.



## PROGRAMMABLE MIDI

The organ features MIDI couplers for controlling external MIDI devices.

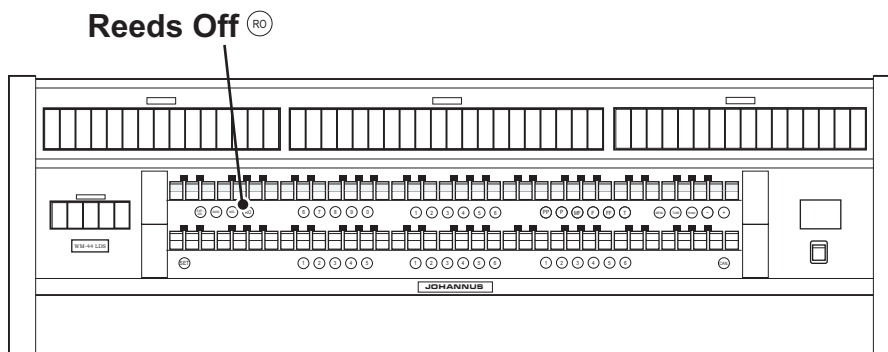


With the programmable MIDI stops, you can control any module voice (1-128) through any MIDI channel (1-16).

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.

## REEDS OFF PISTON

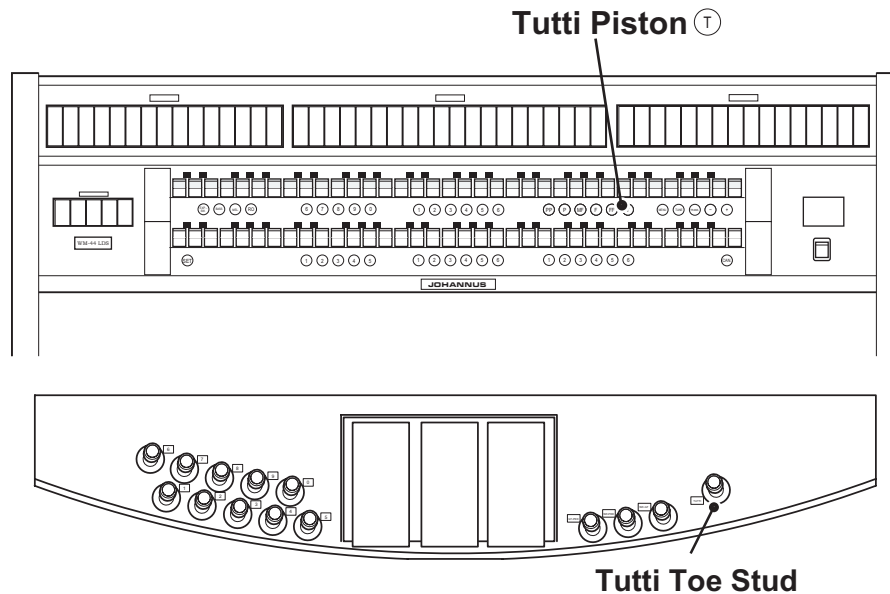
The RO piston stands for Reeds Off. Activating this piston disables all reed stops on the organ.



## TUTTI

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Tutti is used to quickly engage full organ. Press the Tutti toe stud or thumb piston to engage and disengage Tutti.



## OTHER MENU ITEMS

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### Keyboard Mode

The Keyboard Mode function sets the operation of the keys.

1. Press the MENU piston.
2. Use the - and + pistons to select the Keyboard Mode function on the display.
3. Press the SET piston. The display shows the current manual setting of one of the manuals.
4. Use the - and + pistons to select the manual the setting of which must be changed.
5. Press the SET piston.
6. Use the - and + pistons to select a setting for the operation of the keys.
  - High: The keys respond earlier
  - Low: The keys respond slightly slower
  - Velocity: The keys are force-sensitive for MIDI voices
7. Press the SET piston. The manual setting is now saved in the memory.
8. Press the MENU piston to return to the main menu.
9. Press the MENU piston again to exit the Easy Menu.

## 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.
  - Memory: Clear the entire capture memory.
  - MIDI: Resets the factory settings of the MIDI stops.
  - Preset: Resets the factory settings of the fixed combinations.
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.

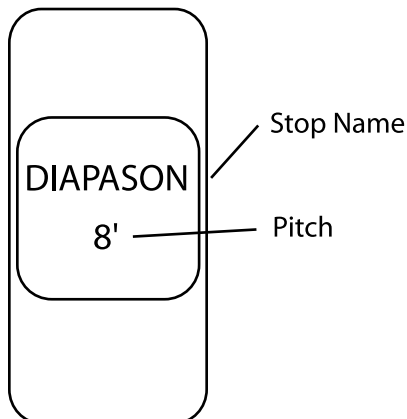


Do not use the organ when the text “Sending Data” is on the display.

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

## UNDERSTANDING 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.

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 WM44-LDS 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 LDS 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 LDS 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 LDS organ: viola di gamba, voix 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 LDS 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  $2 \frac{2}{3}'$  pipe sounds an octave and a fifth above the note you play;  $1 \frac{3}{5}'$  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 than one of the families of stops. The Johannus LDS organ has some gemshorn stops that are hybrid between flute and string, but lean more toward the string sound.

## **Percussion Voices**

The Johannus LDS 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. When using Organ 2 the chimes become a chrysoglot.

## 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

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In LDS 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          |     |
|----------------|----|---------------|----|----------------|-----|
| 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 Pedal |     |
| Super Octave   | 2' | Piccolo       | 2' |                |     |
| Swell to Great |    | Oboe          | 8' |                |     |

## Strong Hymn

| <b>Great</b>   |        | <b>Swell</b>  |    | <b>Pedal</b>   |     |
|----------------|--------|---------------|----|----------------|-----|
| 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

| <b>Great</b>   |        | <b>Swell</b>  |    | <b>Pedal</b>   |     |
|----------------|--------|---------------|----|----------------|-----|
| 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)

| <b>Great</b>   |        | <b>Swell</b>   |    | <b>Pedal</b>   |     |
|----------------|--------|----------------|----|----------------|-----|
| 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'     | Octave Coupler |    | Trumpet        | 8'  |
| Swell to Great |        |                |    | Clarion        | 4'  |
|                |        |                |    | Great to Pedal |     |
|                |        |                |    | Swell to Pedal |     |

## SUGGESTED PRELUDE REGISTRATIONS

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### Both Hands on One Manual

| <b>Great</b>     |    | <b>Swell</b>   |    | <b>Pedal</b>   |     |
|------------------|----|----------------|----|----------------|-----|
| Gemshorn         | 8' | Gedeckt        | 8' | Echo Bourdon   | 16' |
| Gemshorn Celeste | 8' | Flute Celeste  | 8' | Swell to Pedal |     |
| Swell to Great   |    | Viola di Gamba | 8' |                |     |
|                  |    | Voix Celeste   | 8' |                |     |

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| <b>Great</b>  |    | <b>Swell</b>   |    | <b>Pedal</b> |     |
|---------------|----|----------------|----|--------------|-----|
| Stopped Flute | 8' | Viola di Gamba | 8' | Echo Bourdon | 16' |
|               |    | Voix Celeste   | 8' |              |     |

---

| <b>Great</b>   |    | <b>Swell</b>   |    | <b>Pedal</b>   |     |
|----------------|----|----------------|----|----------------|-----|
| Stopped Flute  | 8' | Gedeckt        | 8' | Echo Bourdon   | 16' |
| Harmonic Flute | 4' | Flute Celeste  | 8' | Great to Pedal |     |
| Swell to Great |    | Octave Coupler |    |                |     |

### Melody on Great, Accompaniment on Swell

| <b>Great</b> |    | <b>Swell</b>   |    | <b>Pedal</b>   |     |
|--------------|----|----------------|----|----------------|-----|
| Cromorne     | 8' | Viola di Gamba | 8' | Echo Bourdon   | 16' |
|              |    | Voix Celeste   | 8' | Swell to Pedal |     |

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| <b>Great</b>   |     | <b>Swell</b> |    | <b>Pedal</b> |     |
|----------------|-----|--------------|----|--------------|-----|
| Bourdon        | 16' | Gedeckt      | 8' | Echo Bourdon | 16' |
| Harmonic Flute | 4'  |              |    |              |     |
| Tremulant      |     |              |    |              |     |

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| <b>Great</b> |  | <b>Swell</b>   |    | <b>Pedal</b>   |     |
|--------------|--|----------------|----|----------------|-----|
| Chimes       |  | Viola di Gamba | 8' | Echo Bourdon   | 16' |
|              |  | Voix Celeste   | 8' | Swell to Pedal |     |
|              |  | Octave Coupler |    |                |     |

---

| <b>Great</b> |    | <b>Swell</b>  |    | <b>Pedal</b> |     |
|--------------|----|---------------|----|--------------|-----|
| Posaune      | 8' | Gedeckt       | 8' | Echo Bourdon | 16' |
|              |    | Chimney Flute | 4' | Bass Flute   | 8'  |

## Melody on Swell, Accompaniment on Great

| <b>Great</b>     |    | <b>Swell</b> |    | <b>Pedal</b>   |     |
|------------------|----|--------------|----|----------------|-----|
| Gemshorn         | 8' | English Horn | 8' | Echo Bourdon   | 16' |
| Gemshorn Celeste | 8' |              |    | Great to Pedal |     |

---

| <b>Great</b>  |    | <b>Swell</b> |        | <b>Pedal</b>   |     |
|---------------|----|--------------|--------|----------------|-----|
| Stopped Flute | 8' | Gedeckt      | 8'     | Echo Bourdon   | 16' |
|               |    | Nasard       | 2 2/3' | Great to Pedal |     |
|               |    | Tremulant    |        |                |     |

---

| <b>Great</b>     |    | <b>Swell</b>  |        | <b>Pedal</b>   |     |
|------------------|----|---------------|--------|----------------|-----|
| Stopped Flute    | 8' | Gedeckt       | 8'     | Echo Bourdon   | 16' |
| Gemshorn         | 8' | Chimney Flute | 4'     | Great to Pedal |     |
| Gemshorn Celeste | 8' | Nasard        | 2 2/3' |                |     |
|                  |    | Piccolo       | 2'     |                |     |
|                  |    | Tierce        | 1 3/5' |                |     |

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| <b>Great</b>     |    | <b>Swell</b>  |     | <b>Pedal</b> |     |
|------------------|----|---------------|-----|--------------|-----|
| Gemshorn         | 8' | Gemshorn      | 16' | Echo Bourdon | 16' |
| Gemshorn Celeste | 8' | Gedeckt       | 8'  | Bass Flute   | 8'  |
|                  |    | Chimney Flute | 4'  |              |     |
|                  |    | Piccolo       | 2'  |              |     |
|                  |    | Tremulant     |     |              |     |

---

| <b>Great</b>   |    | <b>Swell</b> |    | <b>Pedal</b>   |     |
|----------------|----|--------------|----|----------------|-----|
| Stopped Flute  | 8' | Oboe         | 8' | Echo Bourdon   | 16' |
| Harmonic Flute | 4' |              |    | Great to Pedal |     |

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## MAINTENANCE

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### 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

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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

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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 Johannus-LDS Support.

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 32.

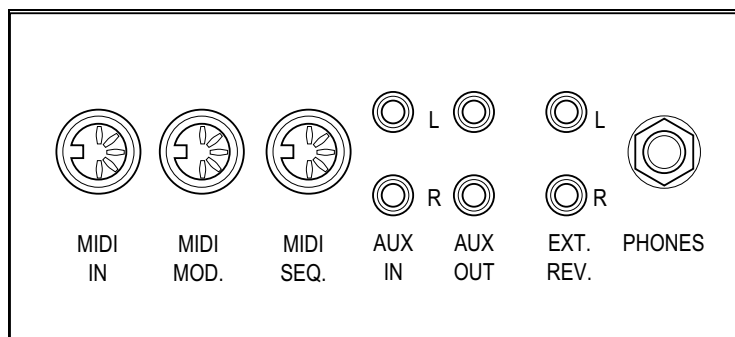
Symptom: My programmed piston does not recall all of the stops I selected.

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

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

Mode 1: OMNY ON, POLY  
Mode 3: ONMY OFF, POLY

Mode 2: OMNY ON, MONO  
Mode 4: OMNY OFF, MONO

Y = YES  
N = NO

**MIDI SPECIFICATIONS**

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**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).<br>Pitch value 64 (40h) = A = 440 Hz.<br>The following applies to pitch:<br>LSB 100(64h) 1(01h)<br>MSB 101(65h) 0(00h)                         |
|                     | Transposer, with transposer values 61 (3Dh) – 67 (43h).<br>Transposer value 64 (40h) = A = 440 Hz.<br>The following applies to the transposer:<br>LSB 100(64h) 2(01h)<br>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 instrument are 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-44 LDS SPECIFICATION

| <b>Great</b>     |        | <b>Swell</b>   |        | <b>Pedal</b>    |     |
|------------------|--------|----------------|--------|-----------------|-----|
| Bourdon          | 16'    | Gemshorn       | 16'    | Contra Violone  | 32' |
| Open Diapason    | 8'     | Diapason       | 8'     | Open Diapason   | 16' |
| Stopped Flute    | 8'     | Gedeckt        | 8'     | Bourdon         | 16' |
| Claribel Flute   | 8'     | Flute Celeste  | 8'     | Echo Bourdon    | 16' |
| Gemshorn         | 8'     | Viola di Gamba | 8'     | Octave          | 8'  |
| Gemshorn Celeste | 8'     | Voix Celeste   | 8'     | Bass Flute      | 8'  |
| Octave           | 4'     | Principal      | 4'     | Choral Bass     | 4'  |
| Harmonic Flute   | 4'     | Chimney Flute  | 4'     | Mixture         | III |
| Octave Quint     | 2 2/3' | Nasard         | 2 2/3' | Contra Trombone | 32' |
| Super Octave     | 2'     | Piccolo        | 2'     | Trombone        | 16' |
| Full Mixture     | IV     | Tierce         | 1 3/5' | Fagotto         | 16' |
| Cromorne         | 8'     | Mixture        | IV     | Trumpet         | 8'  |
| Posaune          | 8'     | Double Trumpet | 16'    | Clarion         | 4'  |
| Chimes           |        | Trumpet        | 8'     | Great to Pedal  |     |
| Tremulant        |        | Oboe           | 8'     | Swell to Pedal  |     |
| Swell to Great   |        | French Horn    | 8'     |                 |     |
|                  |        | English Horn   | 8'     | Chorus          |     |
|                  |        | Clarion        | 4'     | Organ 2         |     |
|                  |        | Tremulant      |        | MIDI Great      |     |
|                  |        | Octave Coupler |        | MIDI Swell      |     |
|                  |        |                |        | MIDI Pedal      |     |

### Specification

53 ranks / 44 voices Romantic  
53 ranks / 44 voices Classic

32-level full capture system  
10 generals / 6 per division  
14 toe studs  
5 presets PP-P-MF-F-FF  
1 Tutti  
General crescendo pedal  
3-D Acoustic Reverberation\*  
3 programmable MIDI tabs  
Melody coupler piston  
Bass coupler piston  
16-key transposer  
Pitch control, +/- half step  
General volume control\*  
Reeds Off piston  
SET, +/- and Cancel pistons  
Menu piston

Intonat 4.0 Platinum Edition

### Technical Data

Audio 6.1 system:  
7 amplifiers total 770 Watts  
19 loudspeakers  
7 speaker cabinets

Connections:  
Headphone out  
Stereo auxiliary in  
Stereo auxiliary out  
Stereo auxiliary out (XLR)\*  
Optional external surround system  
MIDI in, mod. (out), seq. (out)

Graphical display:  
2 expression level indicators  
General crescendo level  
Pitch & transposer status  
162-hymn player system

### AGO Console

3 custom finishes:  
- Dark Oak, LDS-95  
- Medium Oak, LDS-110  
- Cherry on Oak  
Solid wooden console  
Decorative raised paneling  
Roll top, no lock  
32-note AGO pedalboard  
2 x 61-note keyboards

Music rack with page holders

Adjustable bench

\* control located inside of console

# Preset Organ Registrations

## Johannus WM44-LDS Digital Organ

1 July 2005

### Overview:

The LDS Church Musical Instrument Selection Committee has worked with Johannus to preset Memory 1 and Memory 2 on this organ with registrations organists may find useful during church services. Listed below are the stop combinations that have been preset on Memory 1, which cannot be changed. Memory 2 is also preset with stop combinations listed on the back of this page. Memory 3 through Memory 32 can be programmed by the ward or stake organists.

### Memory 1: General Combinations 1-0

Use General Combinations 1-0 when playing a congregational hymn, louder postlude, or fuller choir accompaniment. These ensemble combinations gradually build up from General 1 (which is useful for a very soft congregational hymn such as "Silent Night") through General 0 (which is nearly full organ for the last verse of a hymn such as "Redeemer of Israel").

| Piston    | Pedal   | Swell  | Great   |
|-----------|---|--|---|
| General 1 | Echo Bourdon 16', Bass Flute 8'                             | Gedeckt 8', Chimney Flute 4'   | Gemshorn 8', Harmonic Flute 4'  |
| General 2 | Bourdon 16', Bass Flute 8'                                  | Gedeckt 8', Viola di Gamba 8', Chimney Flute 4'  | Stopped Flute 8', Gemshorn 8', Harmonic Flute 4'                                      |
| General 3 | Bourdon 16', Bass Flute 8'                                  | Gedeckt 8', Piccolo 2'   | Open Diapason 8', Stopped Flute 8', Claribel Flute 8', Gemshorn 8'                    |
| General 4 | Diapason 16', Bourdon 16', Bass Flute 8'                    | Gedeckt 8', Flute Celeste 8', Viola di Gamba 8', Voix Celeste 8', Octave Coupler       | Open Diapason 8', Stopped Flute 8', Claribel Flute 8', Gemshorn 8', Harmonic Flute 4' |
| General 5 | Bourdon 16', Echo Bourdon 16', Octave 8', Bass Flute 8'     | Diapason 8', Viola di Gamba 8', Principal 4', Piccolo 2'                               | General 4 + Octave 4'   |
| General 6 | Diapason 16', Bourdon 16', Octave 8', Choral Bass 4'        | Diapason 8', Gedeckt 8', Viola di Gamba 8', Principal 4', Chimney Flute 4', Piccolo 2' | General 5 + Super Octave 2'   |
| General 7 | General 6 + Echo Bourdon 16'                                | General 6 + Oboe 8'  | General 6 + Full Mixture IV   |
| General 8 | General 7 + Fagotto 16'                                     | General 7 + Mixture IV   | General 7 + Posaune 8'  |
| General 9 | General 8 (without Fagotto 16') + Mixture III, Trombone 16' | General 8  | General 8 + Swell to Great  |
| General 0 | General 9 + Contra Trombone 32', Trumpet 8', Clairon 4'     | General 9 (without Oboe 8') + Double Trumpet 16', Trumpet 8', Clarion 4'               | General 9 + Octave Quint 2 <sup>2</sup> / <sub>3</sub> '                              |

### Divisional Combinations 1-6

Use the six Swell and six Great Divisional Pistons for additional ensemble combinations. Swell Divisional Pistons 4-6 are useful for trumpet fanfares such as in the hymn "God of Our Fathers."

| Pedal Divisional Pistons |  | Swell Divisional Pistons |   | Great Divisional Pistons |  |
|--------------------------|--|--------------------------|---|--------------------------|--|
| Ped. 1                   | Echo Bourdon 16', Bass Flute 8'  | Sw. 1                    | Gedeckt 8', Chimney Flute 4', Piccolo 2'  | Gt. 1                    | Stopped Flute 8', Claribel Flute 8', Super Octave 2'   |
| Ped. 2                   | Pedal 1 + Bourdon 16'  | Sw. 2                    | Gedeckt 8', Principal 4'  | Gt. 2                    | Open Diapason 8', Octave 4'                            |
| Ped. 3                   | Diapason 16', Octave 8', Choral Bass 4'  | Sw. 3                    | Diapason 8', Principal 4', Mixture IV   | Gt. 3                    | Great 2 + Super Octave 2'                              |
| Ped. 4                   | Pedal 3 + Fagotto 16'  | Sw. 4                    | Double Trumpet 16', Trumpet 8'  | Gt. 4                    | Great 3 + Octave Quint 2 <sup>2</sup> / <sub>3</sub> ' |
| Ped. 5                   | Pedal 4 + Trombone 16', Trumpet 8', Clairon 4'   | Sw. 5                    | Swell 4 + Clarion 4'  | Gt. 5                    | Great 4 + Full Mixture IV                              |
| Ped. 6                   | Pedal 5 + Contra Violone 32', Bourdon 16', Echo Bourdon 16', Bass Flute 8', Mixture III, Contra Trombone 32' | Sw. 6                    | Swell 5 + Nasard 2 <sup>2</sup> / <sub>3</sub> ', Piccolo 2', Tierce 1 <sup>3</sup> / <sub>5</sub> ', Mixture IV, Oboe 8' | Gt. 6                    | Great 5 + Bourdon 16', Posaune 8'                      |

## Memory 2: General Combinations 1–0

Use General Combinations 1–0 when playing a prelude, soft postlude, or soft choir accompaniment. Generals 1–5 are set with a softer accompaniment on the upper Swell manual and a louder solo combination on the lower Great manual suitable for playing a single melody line. Generals 6–0 are set with the softer accompaniment on the lower Great manual, while the louder solo combination suitable for playing a single melody line is on the upper Swell manual. Some of the solo combinations have been preset with the Tremulant. Tremulant is most effective when used sparingly for soft solo melody combinations. Tremulant should not be used to accompany congregational singing.

| Piston    | Pedal  | Swell   | Great   |
|-----------|--|---|---|
| General 1 | Echo Bourdon 16', Swell to Pedal                     | Viola di Gamba 8', Voix Celeste 8'  | Open Diapason 8', Tremulant   |
| General 2 | Contra Violone 32', Echo Bourdon 16', Swell to Pedal | Viola di Gamba 8', Voix Celeste 8', Octave Coupler  | Open Diapason 8', Stopped Flute 8', Claribel Flute 8', Gemshorn 8', Harmonic Flute 4' |
| General 3 | Contra Violone 32', Echo Bourdon 16', Swell to Pedal | Gemshorn 16', Viola di Gamba 8', Voix Celeste 8', Octave Coupler                            | Stopped Flute 8', Claribel Flute 8', Harmonic Flute 4', Cromorne 8', Tremulant        |
| General 4 | Echo Bourdon 16', Swell to Pedal                     | Gedeckt 8', Flute Celeste 8',   | Cromorne 8'   |
| General 5 | Contra Violone 32', Echo Bourdon 16' Swell to Pedal  | Gedeckt 8', Flute Celeste 8', Octave Coupler  | Claribel Flute 8', Harmonic Flute 4', Octave Quint 2 $\frac{2}{3}$ '                  |
| General 6 | Echo Bourdon 16', Great to Pedal                     | English Horn 8'   | Gemshorn 8', Gemshorn Celeste 8'  |
| General 7 | Echo Bourdon 16', Bass Flute 8'                      | Oboe 8', Tremulant  | Stopped Flute 8'  |
| General 8 | Echo Bourdon 16', Bass Flute 8'                      | Gedeckt 8', Nasard 2 $\frac{2}{3}$ '  | Gemshorn 8'   |
| General 9 | Echo Bourdon 16', Bass Flute 8', Great to Pedal      | Gedeckt 8', Chimney Flute 4', Nasard 2 $\frac{2}{3}$ ', Tremulant                           | Gemshorn 8', Gemshorn Celeste 8'  |
| General 0 | Echo Bourdon 16', Bass Flute 8', Great to Pedal      | Gedeckt 8', Chimney Flute 4', Nasard 2 $\frac{2}{3}$ ', Tierce 1 $\frac{3}{5}$ ', Tremulant | Gemshorn 8', Gemshorn Celeste 8'  |

## Divisional Combinations 1–6

Use the six Swell and six Great Divisional Pistons for playing a single melody line on one manual. Choose a softer accompaniment on a separate manual and pedal. Some of the combinations have been preset with the Tremulant. Tremulant is most effective when used sparingly for soft solo melody combinations. Tremulant should not be used to accompany congregational singing.

| Pedal Divisional Pistons |  | Swell Divisional Pistons |   | Great Divisional Pistons |  |
|--------------------------|--|--------------------------|---|--------------------------|--|
| Ped. 1                   | Echo Bourdon 16'   | Sw. 1                    | French Horn 8'  | Gt. 1                    | Stopped Flute 8', Claribel Flute 8'  |
| Ped. 2                   | Contra Violone 32', Echo Bourdon 16'                             | Sw. 2                    | Gedeckt 8', Chimney Flute 4', Piccolo 2'  | Gt. 2                    | Gemshorn 8', Octave Quint 2 $\frac{2}{3}$ ', Tremulant                         |
| Ped. 3                   | Echo Bourdon 16', Bass Flute 8'                                  | Sw. 3                    | Swell 2 + Gemshorn 16', Tremulant   | Gt. 3                    | Bourdon 16', Stopped Flute 8', Claribel Flute 8', Harmonic Flute 4', Tremulant |
| Ped. 4                   | Bourdon 16', Bass Flute 8'                                       | Sw. 4                    | Gedeckt 8', English Horn 8', Tremulant  | Gt. 4                    | Stopped Flute 8', Octave Quint 2 $\frac{2}{3}$ '                               |
| Ped. 5                   | Bourdon 16', Echo Bourdon 16', Bass Flute 8'                     | Sw. 5                    | Gedeckt 8', Chimney Flute 4', Nasard 2 $\frac{2}{3}$ '  | Gt. 5                    | Harmonic Flute 4', Cromorne 8'   |
| Ped. 6                   | Contra Violone 32', Bourdon 16', Echo Bourdon 16', Bass Flute 8' | Sw. 6                    | Gedeckt 8', Chimney Flute 4', Nasard 2 $\frac{2}{3}$ ', Piccolo 2', Tierce 1 $\frac{3}{5}$ ', Tremulant | Gt. 6                    | Stopped Flute 8', Claribel Flute 8', Posaune 8', Tremulant                     |