

# **R-10**

## **2 Manual Classic Series**

w/REN-25 Console Controller™

**IMPORTANT!** The Renaissance-25 Console Controller™ Guide may be downloaded and/or printed separately.

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# ALLEN ORGAN COMPANY

**Congratulations** on the purchase of your new Allen Organ! You have acquired the most advanced electronic organ ever built, one that harnesses a sophisticated custom computer system to create and control beautiful organ sound.

Your organ technology is the culmination of decades of advancements in digital sound and control techniques by Allen Organ Company. This system represents the pinnacle of digital technology applied to exacting musical tasks. The result is a musical instrument of remarkably advanced tone quality and performance.

The Console Controller™ Reference Guide is available for download from the Allen Organ Company website at: <https://www.allenorgan.com/support/manuals-and-guides.html>. Enter this link into your browser and then click on the appropriate link to download the associated manual. Use the link for the Renaissance-25 Console Controller Guide.

Your Allen Organ Warranty should be completed using the online Warranty registration tool at: <https://www.allenorgan.com/warrantyreg/frmregwarranty.html>. Please complete all required fields and click the link at the bottom of the page to submit the warranty registration.

*Note: All data entered, personal or otherwise, will not be shared or sold to any third party.*

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# I. ORGAN STOPS

## PITCH FOOTAGE

The number appearing on each stop, along with its name, indicates the “pitch” or “register” of the particular stop. Organs can produce notes of different pitches from a single playing key. When this sound corresponds to the actual pitch of the played key, the stop is referred to as being of 8’ (eight foot) pitch; therefore, when an 8’ stop is selected and Middle C is depressed, the pitch heard is Middle C. If the sounds are an octave higher, it is called 4’ or octave pitch. If two octaves higher, it is called 2’ pitch. A stop sounding three octaves higher is at a 1’ pitch. Similarly, a 16’ stop sounds an octave lower and a 32’ stop two octaves lower.

Stops of 16’, 8’, 4’, 2’ and 1’ pitch all have octave relationships, that is, these whole numbered stops all sound at octaves of whatever key is depressed. Non-octave pitches are also used in organs. Their footage numbers contain a fraction and they are referred to as *Mutations*. Among these are the  $2\text{-}2/3$ ’ *Nasard*,  $1\text{-}3/5$ ’ *Tierce*,  $1\text{-}1/3$ ’ *Quintflöte* and  $2\text{-}2/3$ ’ *Twelfth*. Because they introduce unusual pitch relationships with respect to the 8’ tone, they are most effective when combined with other stops and used either in solo passages or in small ensembles of flutes.

## TONAL FAMILIES

### 1. Flues

Organ tones divide into two main categories: *flues* and *reeds*. In pipe organs, flue pipes are those in which the sound is set in motion by wind striking directly on the edge of the mouth of the pipe. Flues include principal, flute and string tones. Compound stops and hybrid stops are variations within these three stop families.

The term “imitative” means that the organ stop imitates the sound of a corresponding orchestral instrument; for example, an imitative 8’ Viola stop sounds like an orchestral viola.

<u>Principal Voices</u> Principal, Diapason, Octave, Fifteenth, Quinte	Characteristic organ tones, not imitative of any orchestral instruments. Usually present at many pitches and in all divisions. Rich, warm and harmonically well developed.
<u>Flute Voices - <i>Open</i>:</u> Harmonic Flute, Koppelflöte, flute mutation stops <u>Flute Voices - <i>Stopped</i>:</u> Holzgedackt, Bourdon, Lieblichgedackt, Rohr Bourdon	Lesser harmonic development than Principals. Open flutes are somewhat imitative; stopped flutes are not. Present at all pitch levels and in all divisions.
<u>String Voices</u> Gamba, Salicional, Viole Céleste	Mildly imitative and brighter harmonic development than Principals. Usually appear at 8’ first; can be 4’ & 16’ ranks.
<u>Compound Voices</u> Mixture, Fourniture	Voices produced by more than one rank sounding simultaneously. Best registered with other stops.

<u>Hybrid Voices</u> Erzähler, Spitzflöte	Voices that combine the tonal characteristic of two families of sound, e.g., flutes and principals, or strings and principals.
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## 2. Reeds

In *reed* pipes, a metal tongue vibrates against an open flattened side of a metal tube called a shallot. The characteristic sounds of different reeds are produced through resonators of different shapes. The family of reeds subdivides as follows:

<u>Chorus or Ensemble:</u> Double Trumpet, Tromba, Posaune, Clarion, Bombarde  <u>Solo:</u> Hautbois, Clarinet, Krummhorn	Voices of great harmonic development; some are imitative of their orchestral counterparts.
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## II. STOP CONTROLS

### PEDAL ORGAN

Bourdon 16'	Stopped flute tone of weight and solidity.
Lieblich Gedackt 16' (Sw)	Softer stopped flute of delicacy and definition. Useful where a soft 16' pitch is required. <i>**Expressed with the Swell division.</i>
Octave 8'	8' member of the Pedal Principal chorus.
Flute 8'	Stopped flute tone of 8' pitch, useful in adding clarity to a pedal line in combination with the Bourdon 16' or Lieblich Bourdon 16'.
Choral Bass 4' (Gt)	Pedal 4' principal tone.
Posaune 16'	A strong Pedal reed that lends strength and "snarl" to the Pedal line.
Clarion 4'	A bright chorus reed. Also usable as a solo voice.

### SWELL ORGAN

Gedackt 8'	Stopped Flute tone of moderate harmonic development. Provides the 8' member of the Swell Flute chorus and is useful by itself or with other flutes and mutations in creating solo voices.
Viola Pomposa 8'	Full bodied string tone.
Viola Celeste 8'	String tone, slightly detuned, used with the Virole 8' to create a warm String celeste.
Octave Geigen 4'	Bright 4' Principal tone.
Traverse Flute 4'	Distinctive flute voice that works well in ensembles of flutes or strings, or as a solo voice.

Nasard 2-2/3'	Flute mutation that sounds one octave and a fifth above the keys played. Always used with other stops (usually beginning with 8') for coloration.
Piccolo 2'	A delicate, clear open flute at 2' pitch.
Tierce 1-3/5'	Flute mutation that sounds a seventeenth (two octaves and a third) above the keys played. Use mainly with 8' stops or flute ensembles.
Fourniture IV	Compound stop, or mixture comprised of Principal tones. Each note played produces four distinct pitches at octave and fifth relationships to the key being pressed. The mixture should never be used without stops of lower pitches. The Fourniture IV is typically added to Diapason or Flute ensembles, or to a reed chorus.
Basson 16'	Chorus reed tone at the 16' pitch level, designed to supplement the other chorus reeds. Also usable as a distinctive solo reed.
Trompette 8'	Chorus reed stop of rich harmonic development. Can also be used as a solo voice.

### GREAT ORGAN

Lieblich Gedackt 16' (Sw)	Softer stopped flute of delicacy and definition. <i>**Expressed with the Swell division.</i>
Diapason 8'	Foundation stop of the Great Principal chorus.
Harmonic Flute 8'	Open flute of considerable harmonic development. An excellent solo stop.
Flute Celeste II 8'	Two soft flute sounds, one slightly detuned from the other to create a warm, shimmering sound.
Octave 4'	The 4' member of the Great Principal chorus.
Spitzflöte 4'	Partially stopped flute tone.
Fifteenth 2'	An open metal stop that produces foundation tone at the 2' pitch level. Also the 2' member of the Great Principal chorus.
Mixture IV	A compound stop of principal tones. Four notes in octave and fifth relationships sound together when a single key is depressed. As pitches progress upward, they "break" back to the next lower octave or fifth. Used to cap the Great principal chorus, adding brilliance and pitch definition throughout the entire compass.
Krummhorn 8'	The tone quality of the shawm, a medieval ancestor of the clarinet, is the basis for this light, bright, nasal reed. It can be used alone as a solo or combined with light flues for a somewhat rounder reed solo effect.
Chimes	Typical Tubular Chimes.

### III. SPECIALIZED STOP CONTROLS

Some organ stop controls do not turn voices on/off, but instead turn on/off console functions such as outlined in this Section.

Great to Pedal	Connects all Great stops to the Pedal.
Swell to Pedal	Connects all Swell stops to the Pedal.
Swell to Great	Intermanual coupler connecting all Swell stops to the Great manual.
MIDI on Pedal	Opens MIDI channel to the Pedal.
MIDI on Swell	Opens MIDI channel to the Swell

MIDI on Great	Opens MIDI channel to the Great.
Tremulant	This stop provides a vibrato effect, natural in the human voice and wind instruments within the selected division the control resides.
Tremulants Full	When activated with one or more of the organ's tremulants, it causes the tremulants to become much deeper than normal classical tremulants. Very useful for Gospel music. Also known as "Vibrato."
Melody Coupler	When playing on the Great manual, the highest key played on the Great will automatically play all stops drawn on the Swell, in addition to those drawn on the Great. By choosing a Swell stop, such as the Festival Trumpet or Trumpet, the melody played by the top note on the Great is accentuated.
Bass Coupler	Similar to the Melody coupler, however, in this case the lowest note played on the Great will also play all stops drawn in the Pedal Division. This allows voices normally played from the pedalboard to be heard without using the pedalboard.
Alternate Tuning	When activated, the organ's tuning will change to the alternate tuning selected from within the Console Controller. Reference the Console Controller Guide for instructions on how to select and change the Alternate Tuning.

#### **IV. EXPRESSION SHOES**

The organ's control pedals (called "shoes") control expression (volume).

- The left shoe expresses the Great and Pedal Divisions.
- The right shoe expresses the Swell Division.

#### **V. KEYBOARDS**

The R-10 model utilizes industry standard keyboards with velocity sensitivity for the best economical alternative option in playability and control.

#### **VI. LUMITECH™ CAPTURE**

State-of-the-art LED technology is incorporated into Allen's exclusive Lumitech™ Capture System. LED's not only require less power, but last about 10-times longer than incandescent bulbs for the ultimate in reliability. Manually pressing the upper or lower portion of a Lumitech™ stop control will "toggle" the on or off status of the stop. When the stop is lit, the function of the stop control is activated. A "Self Check" feature within the Console Controller™ can be performed to test the LED indicators as well as the capture system at any time. Please refer to the associated Console Controller™ Guide for operating instructions on the Self Check function.

## VII. SETTING CAPTURE REGISTRATIONS

Your Allen organ's capture system lets you set stop registration combinations in each of its available capture memories. The R-10 model contains a set of General pistons located under the left side of the Swell/Great manuals and also a set of Divisional pistons for each manual division centrally located under both the Swell and Great manuals.

### SETTING GENERAL PISTONS

General pistons will affect all stops in any division. Any stop turned on will be set within a General piston registration. To set a General piston:

- ❑ First, turn on any stops you wish to save within a registration.
- ❑ Press and hold the **SET** Piston.
- ❑ Press and release the desired **GENERAL** piston.
- ❑ Finally, release the **SET** Piston.

***Note:** General pistons are customarily set from soft to loud using graduated stop combinations.*

### SETTING DIVISIONAL PISTONS

Divisional pistons are different in that they only affect the stops of a single division. For example, only the Swell stops can be programmed onto a Swell divisional piston. Any Great stops turned on while selecting or setting a Swell divisional piston will be unaffected or changed. To set a Divisional piston:

- ❑ First, only turn on stops within a single division you wish to save within a registration.
- ❑ Press and hold the **SET** Piston.
- ❑ Press and release the desired **DIVISIONAL** piston.
- ❑ Finally, release the **SET** Piston.

The pistons, General or Divisional, which have been set "remember" the registration combinations which have been assigned to each of them. Each time a given piston is pressed, the registration assigned to it is activated. Stop registration combinations may be changed at any time by repeating the above procedures.

## VIII. ARTISTIC REGISTRATION

*(Trained organists might not need to review this section.)*

Organ registrations fall into two broad categories; *solo combinations* and *ensembles*. A solo combination is one in which a melody is played on one keyboard, the accompaniment on another keyboard. The pedal often provides a light bass line. Almost any stop or combination of stops will sound good as a solo voice. A contrasting tone quality should be chosen for the accompaniment, so that the accompaniment is softer than the solo voice. The Pedal stops must provide a foundation for the solo and accompaniment without covering them.

Most 8' reed stops make interesting solo voices. The addition of a 4' flute or a flute mutation (e.g., Nasard or Tierce) to a reed such as the Trompette colors the sound further and increases its volume slightly. Adding an 8' flute to a reed adds body to the sound.

Flutes can be used alone or in combinations as solo voices. One special combination of flutes that creates an appealing and historically significant solo combination is the Cornet (pronounced kor-NAY). The Cornet is created by using the following Swell stops: Gedackt 8', Traverse Flute 4', Nasard 2-2/3', Piccolo 2' and Tierce 1-3/5'. This solo combination, widely used for Baroque organ music, is just as appropriate for some modern music. Useful variations of the Cornet may be achieved by eliminating the 4', the 2', or even both.

When choosing stops for a solo voice, it is not always necessary to include an 8' stop; for example, since the 4' flute has a tone quality different from that of the 8' flute, the 4' flute can be used as an independent solo voice. By playing a solo voice an octave lower than written, the notes sound at the correct pitch. In similar fashion, a 16' stop can be selected and the notes played an octave higher than written. Tonal variety is gained, because each stop has its own tone color. For accompaniment, the most desirable voices are the 8' flutes or strings on each manual. Celestes often make effective accompaniments. The correct choice depends on the volume of the solo tone (a soft solo voice requires the softest accompaniment stop), the element of contrast, and the location of the solo stop. A bright, harmonically rich solo reed, for example, can be accompanied by either a string or flute, though the flute often contributes greater interest because of its greater contrast. Try to seek a "natural" balance of volume between solo and accompaniment.

## SUGGESTED SOLO REGISTRATIONS

### CHIMES SOLO

Swell: Gedackt 8' or Viola Pomposa 8', Viola Celeste 8' or Flute Celeste II 8'  
Great: Chimes  
Pedal: Lieblich Gedackt (Sw) 16', Swell to Pedal 8'  
*Play melody on Great and accompaniment on Swell*

### SOLO CORNET COMBINATION

Swell: Gedackt 8', Traverse Flute 4', Nasard 2-2/3', Piccolo 2', Tierce 1-3/5'  
Great: Harmonic Flute 8' or Flute Celeste II 8'  
Pedal: Lieblich Gedackt 16', Flute 8'  
*Play melody on Swell and accompaniment on Great*

### KRUMMHORN SOLO

Swell: Viola Pomposa 8', Viola Celeste 8'  
Great: Krummhorn 8'  
Pedal: (Sw) Lieblich Gedackt 16'  
*Play melody on Great and accompaniment on Swell.*

These few combinations demonstrate basic techniques of solo registration. In creating registrations of your own, remember these three simple rules:

- ❑ Seek tonal contrast between solo and accompaniment.
- ❑ Be sure the solo is louder than the accompaniment.
- ❑ Choose a solo whose character is appropriate to the specific piece.



## ENSEMBLE REGISTRATIONS

Volumes have been written on the subject of ensemble registration. Following is a summary of the major points.

- Ensemble registrations involve groups of stops that are played together, usually, but not always, with both hands on one keyboard. They are characterized by compatibility of tone, clarity, and occasionally power. Such registrations are used in hymn singing, choir accompaniments, and much of the contrapuntal organ literature.
- Two factors are always to be considered: tone quality and pitch. Ensembles begin with a few stops at the 8' and/or 4' pitch and expand "outward" in pitch as they build up. New pitches are usually added in preference to another 8' stop. Ensembles are generally divided into three tonal groupings called "choruses":

**The Principal Chorus** is the most fully developed with representation in various divisions of the organ and at every pitch from 16' to high mixtures. The Principal Chorus is sometimes called the narrow-scale flue chorus, a reference to the relative thinness of Principal pipes in relation to their length.

**The Flute Chorus** is also well represented with a diversity of stops at various pitches. Generally speaking, the Flute Chorus is composed of less harmonically developed tones, and is smoother and of lesser volume than the Principal Chorus. The Flute Chorus is sometimes called the wide-scale flue chorus, owing to the generally "fatter" look of Flute pipes as compared to Principals.

**The Reed Chorus** includes those reed tones designed to be used in the ensemble buildup. Not all reed voices are ensemble tones. A Clarinet, for example, is usually a solo stop. The various Trumpets, Clairons, Bassons, etc., are usually ensemble voices that add brilliance, power, and incisiveness to the sound. If you have questions as to whether a specific reed is a solo or ensemble stop, refer to the stop list in the preceding section.

**The Swell Reed Chorus** is a special ensemble of Basson 16' and Trompette 8'. It represents an entity important to French organ music and the full ensemble of the organ. These stops create a "blaze" of richly harmonic sounds that tops off both flue choruses.

Another special ensemble combination important in French music is the **Cornet** (described in the section on Solo Registration). This combination can be used with the chorus reeds and mutations to create the "Grand Jeu." The Cornet is also useful in Romantic ensembles, adding weight and thickness to the sound.

### SUGGESTED ENSEMBLE COMBINATION REGISTRATIONS:

#### GREAT ENSEMBLE COMBINATIONS

1. Harmonic Flute 8', Spitzflöte 4'
2. Harmonic Flute 8', Spitzflöte 4', Fifteenth 2'
3. Diapason 8', Octave 4'
4. Diapason 8', Octave 4', Fifteenth 2'
5. Diapason 8', Octave 4', Fifteenth 2', Mixture IV
6. Diapason 8', Harmonic Flute 8', Octave 4', Spitzflöte 4', Fifteenth 2', Mixture IV

## SWELL ENSEMBLE COMBINATIONS

1. Gedackt 8', Viola Pomposa 8'
2. Gedackt 8', Viola Pomposa 8' Flûte 4'
3. Gedackt 8', Viola Pomposa 8' Flûte 4', Piccolo 2'
4. Gedackt 8', Viola Pomposa 8' Flûte 4', Piccolo 2'
5. Gedackt 8', Viola Pomposa 8' Flûte 4', Piccolo 2', Fourniture IV
6. Gedackt 8', Viola Pomposa 8' Flûte 4', Piccolo 2', Fourniture IV, Trompette 8'

The use of the Swell to Great coupler allows these separate ensembles to be combined on the Great manual. It is also possible to combine some of these ensembles within the same division; for example, when the #5 Great and #3 Swell registrations are coupled together and played on the Great, they combine to form a nice round hymn combination.

The Pedal ensemble is created in much the same way as the manual ensembles, starting at 16' pitch instead of 8'. Be careful that the volume of the pedals is not greater than that of the manuals. Although the manual to pedal couplers are useful in bringing clarity to the pedal line, especially on softer registrations, avoid the temptation to rely constantly on one or two 16' stops and a coupler. Please note that the softest stops and flute mutations are normally not used with ensembles.

## FULL ORGAN

Due to the immense capabilities of the organ, every stop and coupler on the instrument could be used simultaneously without distortion, if the organ is adjusted properly. In good registration practice, however, the organist would not haphazardly put on every stop on the instrument. For best results, listen and include only those stops that really contribute to the fullness and brilliance of the ensemble. Eliminate soft stops and solo stops that make no purposeful contribution.

This short treatment barely scratches the surface of the fascinating subject of organ registration. For those interested in gaining further insight into this vital area of organ playing, we recommend the following texts:

Audsley, George Ashdown. *Organ Stops and their Artistic Registration*.

Hialeah, FL: C. P. P. Belwin, 1985.

Irwin, Stevens. *Dictionary of Pipe Organ Stops*. 2nd ed.

New York: Macmillan Books, 1983.

## IX. TRANSPOSER

Vast computer capability makes it possible to perform the sometimes difficult task of transposing, while allowing the organist to play in the notated key. The Console Controller™ controls the operation of the Transposer.

Transposition to any of the twelve musical keys is possible. When the organ is turned ON, the Transposer defaults to the neutral or zero position. The Transposer is displayed as a large digit within the Console Controller™ display (“0” is displayed on the right side of the display).

To shift the music to a higher key, you must first move the cursor position in the Console Controller's display window so that the “0” symbol is selected. To move the cursor, repeatedly press the button on the Console Controller™ labeled "CURSOR" until the “0” symbol is selected. Once the “0” symbol is selected, turn the Console Controller's Rotary Dial to select the new musical key. Turning the dial in a clockwise manner selects higher keys and causes the organ's pitch to rise. Turning the dial in a counter-clockwise manner selects a lower key and causes the organ's pitch to go lower. The pitch can be raised a maximum of five half-steps or lowered a total of seven half-steps. Be aware that the Transposer's range settings "wrap around" from the plus five half-step setting to the minus seven half-step setting (or vice-versa).

A red indicator light (LED) on the face of the Console Controller™ illuminates any time the Transposer setting is moved from the “0” or neutral pitch position.

Why Transpose?

- ❑ Because a song’s range does not always suit the vocal range of a particular singer. By adjusting the Transposer, the piece can be sung more comfortably and effectively.
- ❑ Because some instruments are non-concert pitch. A trumpet in B<sup>b</sup>, for example, can play the same music as the organist, if the Transposer knob is set two half steps lower.
- ❑ Because hymn singing can sometimes be improved by a more favorable key selection.

## X. ACOUSTIC PORTRAIT™

Allen Organs are the only digital organs to bring the science of sampling to acoustics! Ordinary electronic reverb is a synthetic imitation of acoustics “applied to” the sound, not created as an integral part of it. Acoustic Portrait™ produces the real thing in exacting detail!

Acoustic Portrait™ begins with a sampling process using impulse responses that measure an actual room’s acoustic properties. These measurements are then stored in the organ's computer memory. Through an advanced real-time mathematical process called “convolution”, the acoustics of the sampled room actually become an integral part of the organ’s sound, producing a noticeably smoother, more natural result than synthetic reverb. Allen engineers have recorded the acoustics of cathedrals and other acoustically desirable buildings throughout the world. With advanced processors (DSP) and patented low-latency convolution algorithms, Acoustic Portrait™ reproduces the true acoustic response of each original room with stunning realism! Each organ equipped with Acoustic Portrait™ features 10 different Acoustic Portrait selections, ranging from intimate rooms to cavernous cathedrals.

### Available Reverb Selections

1. Pipe Chamber
2. Small Theatre
3. Small Church
4. Medium Room 1
5. Medium Room 2
6. Medium Room 3
7. Large Room 1
8. Large Room 2
9. Cathedral
10. Large Cathedral

The switch labeled “ACOUSTICS” on the Console Controller™ must be “ON” to hear the selected reverb selection. The selected Acoustic Portrait™ gain, measured in dB (decibels), can be accessed and adjusted within the Console Controller™. Reference the associated Console Controller™ guide for more detailed instructions on Acoustic Portrait™ settings and adjustments.

## **XI. INSTALLATION, VOICING, AND CARE OF THE ORGAN**

### **INSTALLATION**

Wherever your organ may be situated, careful installation is a prerequisite to successful results. Your Allen representative is well qualified to guide you in planning the finest possible installation. Factory assistance in planning the installation is also available and may, in fact, be sought by your Allen Organ representative.

### **VOICING**

Your organ presents unprecedented accuracy in the scaling and voicing of each note of every stop. Should any parameters be required to be changed, your Allen Organ representative is able to make such changes. Final adjustments in scaling and voicing involve procedures that are best left to an expert. These adjustments are normally part of the installation, and once completed, should not require changes. If the organ is moved to a new location or major changes are made to the acoustical properties of the room the organ resides in, the instrument may need to be tonally finished again.

### **CARE OF THE ORGAN**

Your Allen Organ constitutes a major advance in long-term maintenance-free operation. There is no regular maintenance procedures required and, therefore, no periodic maintenance schedules to be observed.

Reasonable care will keep the instrument looking beautiful for years to come. The wood surfaces may be cleaned using a soft cloth dampened with lukewarm water. A mild solution of lukewarm water and dish detergent may be used to remove fingerprints, etc. Polish dry with a soft cloth. Do not use wax, sprays or oils on the finish. Satin finished surfaces will take on a semi-gloss appearance when waxed and will eventually become yellowed.

Keys and stop tablets should be cleaned in the following manner: Use two clean cloths. Immerse one in clear, lukewarm water and wring it thoroughly damp dry. Loosen the dirt with this cloth, and then polish immediately with the dry cloth. Do not use soap or detergent on keys or stop tablets.

To polish the clear music rack, a furniture wax polish may be sprayed on a soft dry cloth and rubbed on the front of the music rack. Keep the wax off of the wood finishes. This will help keep the music rack clear.

You have purchased a remarkable organ that not only faithfully reproduces the organ traditions of the past but also anticipates the innovations of the future. Should you have questions that are not addressed in this manual, please do not hesitate to contact your local Allen Organ representative.

Welcome to the family of satisfied Allen Organ owners!

## **XII. SAFETY INFORMATION**

### **USA ONLY**

#### **CAUTION**

Never plug the instrument into any current source other than 110 to 120 volts, 50/60 Hertz alternating current (AC). A verified grounded outlet is essential to proper operation and protection of the instrument. Proper polarity should be checked with an AC circuit analyzer before connecting the organ.

Do not change the cable plug or remove the ground pin or connect with a two-pole ground lift adapter.

If you are in doubt about your electrical connection, consult your local electrician or power company.

In facilities where circuit breakers are turned off between uses (as for example, between worship services), the circuit breaker affecting the organ console AC power should have a guard installed to prevent it from accidentally being switched off.

It is important that you read and comply with all instructions and labels that might be attached to the instrument.

### **INTERNATIONAL ONLY**

#### **CAUTION**

Do not plug the instrument into any current source other than that stated by the selling dealer. Proper polarity should be checked with an AC circuit analyzer before connecting the organ.

Do not change the cable plug or remove the ground pin (if applicable).

If you are in doubt about your electrical connection, consult your local electrician or power company.

In facilities where circuit breakers are turned off between uses (as for example, between worship services), the circuit breaker affecting the organ console AC power should have a guard installed to prevent its being accidentally switched off.

Read and comply with all instructions and labels that may be attached to the instrument.

*Warning:* This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause interference to radio communications. It has been type tested and found to comply with the limits for a Class B Computing Device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. Should this equipment cause interference to radio communications, the user at his own expense will be required to take whatever measures may be necessary to correct the interference. Whether this equipment actually causes the interference to radio communications can be determined by turning the equipment off and on. The user is encouraged to attempt to correct the interference by one or more of the following measures:

Reorient the receiving antenna.

Relocate the organ with respect to the receiver.

Move the organ away from the receiver.

Plug the organ into a different electrical outlet, so that the organ and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio technician for additional suggestions.

CE mark shows compliance with the EMC Directive.

## APPENDIX A: MIDI IMPLEMENTATION CHART

FUNCTION		TRANSMITTED	RECEIVED
Basic Channel	Default	1 – 16	1 – 16
	Changed	1 – 16	1 – 16
Mode	Default	3	3
	Messages	X	X
	Altered	X	X
Note Number		O (1 – 127)	O (1 – 127)
Velocity	Note ON	9nH, v = 1 – 127	9nH, v = 1 – 127
	Note OFF	9nH, v = 0	9nH, v = 0
Aftertouch	Keys	X	X
	Channels	X	X
Pitch Bend		O	O
Control Change	0 (bank select)	O	X
	6 (Data MSB)	O	O
	7 (volume)	O	O
	64 (sustain)	O	O
	66 (sostenuto)	O	O
	98 (NRPN: LSB)	O	O
	99 (NRPN: MSB)	O	O
Program Change		O (1 – 127)	O (1 – 127)
System Exclusive		O	O
System Common		X	X
System Real Time		X	X
Aux Messages		X	X

Mode 1: Omni On, Poly  
 Mode 3: Omni Off, Poly

Mode 2: Omni On, Mono  
 Mode 4: Omni Off, Mono

O: Yes  
 X: No