

G10

GeniSys™ Series w/GeniSys Display

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ALLEN ORGAN COMPANY

For more than sixty years--practically the entire history of electronic organs-- Allen Organ Company has built the finest organs that technology would allow.

In 1939, Allen built and marketed the world's first electronic oscillator organ. The tone generators for this instrument used two hundred forty-four vacuum tubes, contained about five thousand components, and weighed nearly three hundred pounds. Even with all this equipment, the specification included relatively few stops.

By 1959, Allen had replaced vacuum tubes in oscillator organs with transistors. Thousands of transistorized instruments were built, including some of the largest, most sophisticated oscillator organs ever designed.

Only a radical technological breakthrough could improve upon the performance of Allen's oscillator organs. Such a breakthrough came in conjunction with the United States Space Program in the form of highly advanced digital microcircuits. In 1971, Allen produced and sold the world's first musical instrument utilizing digitally sampled voices!

Your organ is significantly advanced since the first generation Allen digital instrument. Organs with GeniSys™ technology are the product of years of advancements in digital sound and control techniques by Allen Organ Company. This system represents the apex of digital technology applied to exacting musical tasks. The result is a musical instrument of remarkably advanced tone quality and performance.

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. Familiarize yourself with the instrument by reading through this booklet.

Contents

I.	GENISYS™ DISPLAY.....	1
II.	ORGAN STOPS.....	1
III.	STOP CONTROLS.....	3
IV.	SPECIALIZED STOP CONTROLS.....	4
V.	KEYBOARDS.....	5
VI.	LUMITECH™ CAPTURE.....	5
VII.	EXPRESSION SHOES.....	5
VIII.	SETTING CAPTURE REGISTRATIONS.....	5
IX.	USB MEMORY PORT.....	6
X.	STOPLIST LIBRARY.....	6
XI.	ARTISTIC REGISTRATION.....	7
XII.	TRANSPOSER.....	10
XIII.	ACOUSTIC PORTRAIT™.....	11
XIV.	INSTALLATION, VOICING, AND CARE OF THE ORGAN.....	12
XV.	SAFETY INFORMATION.....	13
	APPENDIX A: MIDI IMPLEMENTATION CHART.....	15
	APPENDIX B: HYMN PLAYER Song List.....	16
	APPENDIX C: VISUAL KEY RANGE CHART.....	17
	APPENDIX D: GNU PUBLIC LICENSE INFORMATION.....	18

I. GENISYS™ DISPLAY

GeniSys™ model G10 contains a multi-function color touch screen display. GeniSys™ Display displays and controls a variety of features and functions which are accessed and changed just by touching the screen.

Please reference the online GeniSys™ Display tutorial which can be easily accessed using a personal computer (PC or MAC), tablet or Smart Phone (Android or iPhone) at: <http://www.allenorgan.com/genisys>

In addition, more in-depth descriptions about the features and functions within the GeniSys™ Display is available within the GeniSys™ Overview manual. See the Owner's Manual DVD or the Owner's Manual section within the Allen Organ website at: www.allenorgan.com



Important!: Only a light touch is needed to select the buttons on the GeniSys™ Display touch screen. Use only the tip or pad of your finger to touch the screen. Do NOT use any sharp objects such as fingernails, pencil/pen tip, etc. to touch the screen as this could scratch and irreparably damage the touch screen display.

II. 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.

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><i>Chorus or Ensemble:</i></u> Double Trumpet, Tromba, Posaune, Clarion, Bombarde <u><i>Solo:</i></u> Hautbois, Clarinet, Krummhorn	Voices of great harmonic development; some are imitative of their orchestral counterparts.
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Your Allen Organ provides authentic, digitally sampled voices. They are protected by copyrights owned by the Allen Organ Company and are stored in memory devices, each having affixed to it a copyright notice; e. g., © 2003 AOCO, © 2001 AOCO, etc., pursuant to Title 17 of the United States Code, Section 101 et seq.

III. STOP CONTROLS

PEDAL ORGAN

Bourdon 16'	Stopped flute tone of weight and solidity.
Lieblisch Bourdon 16'	Softer stopped flute of delicacy and definition. Useful where a soft 16' pitch is required. Expresses with Swell division.
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 Lieblisch Bourdon 16'.
Choral Bass 4'	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 Viole 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 Plein-Jeu 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'	Softer stopped flute of delicacy and definition.
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 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'	Medieval ancestor of the clarinet. A light, but bright and nasal reed.
Chimes	Typical Tubular Chimes.

IV. 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 (Swell, Great)	This stop provides a vibrato effect, natural in the human voice and wind instruments.
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 Trompette 8', 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.

(Auxiliary Selection Switches – optionally installed under keyboard apron)

Console Speakers Off Used in conjunction with External Speakers control. This switch turns off the organ's console speakers.

External Speakers Off This switch turns off the organ's external speakers. When the *Console Speakers Off* switch is turned on, the external speakers will sound alone.

V. KEYBOARDS

The GeniSys™ model G10 utilizes industry standard keyboards with velocity sensitivity for the best economical alternative option in playability and control. **Note:** Velocity sensitivity cannot be disabled.

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 labeled function of the stop control is activated. The "Self Check" feature within the GeniSys™ Display can be performed at any time to test the organ's capture system as well as the LED indicators.

VII. EXPRESSION SHOES

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

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

VIII. SETTING CAPTURE REGISTRATIONS

Your Allen organ's capture system lets the organist set stop registrations within each of its available capture memories. The GeniSys™ G10 model contains a set of General pistons, located under the left side of the Swell and Great manuals, as well as a set of Divisional pistons for each manual division centrally located under both the Swell and Great manuals. The Great divisional pistons are also assigned to control the Pedal division stops. As a convenience, the GeniSys™ Display will indicate the last piston pressed underneath the expression bar graph displays.

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 registrations which have been assigned to each of them. Each time a given piston is pressed, the registration assigned to it is activated. Stop registrations may be changed at any time by repeating the above procedures.

IX. USB MEMORY PORT

GeniSys™ model organs contain a USB memory port for a USB memory device. A variety of data is stored on the USB memory device that the organ uses for various functions. The factory supplied USB memory device is formatted to contain the pre-programmed MIDI files used for both the Hymn Player and Performance Player as well as the factory preset registration settings for GeniSys™ Voices.

The USB memory device also contains a sub-directory called “\work”. This sub-directory is required for the Recorder feature as this is the location of where the user-recorded MIDI files are stored. Hundreds of user-recorded MIDI songs can be recorded on the factory supplied USB memory device without exceeding the available memory on the USB memory device. However, if a non-factory USB memory device is used, then the “\work” directory needs to be created on the USB memory device or the Recorder function will not operate correctly.

Note: If a non-factory USB memory device is used, the Hymn Player, Performance Player features will be disabled and the GeniSys™ Voices factory preset files will not be available.

X. STOPLIST LIBRARY

GeniSys™ model G10 contains four (4) Classical voicing suites as standard stop lists with an additional single Theatre voicing suite for total of five (5) voicing suites.

The standard model includes: Classic Allen, English, French, Baroque and Wurlitzer.

Voicing suites are selected using the GeniSys™ Display. See the GeniSys™ Display tutorial about accessing and changing the current Stoplist Library.

XI. 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: Rohr Bourdon 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 Viole Pomposa 8', Viola Celeste 8'
Great: Chimes
Pedal: Lieblich Bourdon (Sw) 16', Swell to Pedal 8'
Play solo 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: Flute Celeste II 8'
Pedal: Lieblich Bourdon (Sw) 16', Flute 8'
Play solo melody on Swell and accompaniment on Great

KRUMMHORN SOLO

Swell: Gedackt 8' or Viole Pomposa 8', Viola Celeste 8'
Great: Krummhorn 8' ** *Tremulant can also be added*
Pedal: Lieblich Bourdon (Sw) 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', Viole Pomposa 8'
2. Gedackt 8', Viole Pomposa 8' Traverse Flute 4'
3. Gedackt 8', Viole Pomposa 8' Traverse Flute 4', Piccolo 2'
4. Gedackt 8', Viole Pomposa 8' Traverse Flute 4', Piccolo 2'
5. Gedackt 8', Viole Pomposa 8' Traverse Flute 4', Piccolo 2', Fourniture IV
6. Gedackt 8', Viole Pomposa 8' Traverse Flute 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.

XII. 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 GeniSys™ Display 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 (0) position. 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).

The Transposer button within the GeniSys™ Display will change to a red color any time the Transposer setting is moved from the zero (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^b, 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.

XIII. 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

Acoustic Portrait is controlled within the GeniSys™ Display and must be turned ON to hear the selected reverb selection. The Acoustic Portrait™ selection as well as the gain (volume), measured in dB (decibels), can be accessed and adjusted within the GeniSys™ Display. See the GeniSys™ Display tutorial for instructions on the Acoustic Portrait™ adjustments.

XIV. 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!

XV. 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

APPENDIX B: HYMN PLAYER Song List

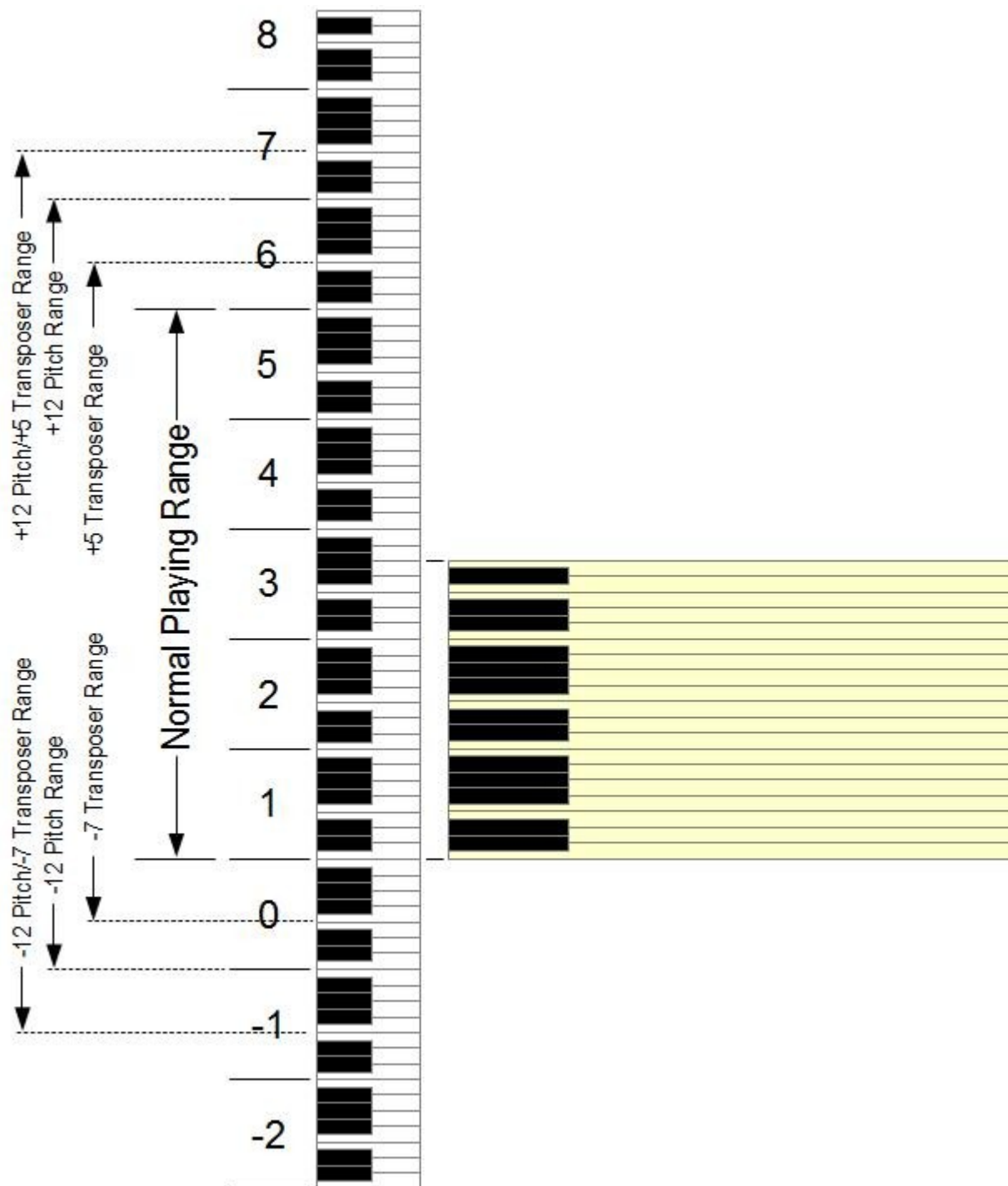
A Mighty Fortress
 Abide with Me
 Ah! Holy Jesus
 Alas! And Did My Savior Bleed
 All Creatures of Our God and King
 All Glory, Laud, and Honor
 All Hail the Power of Jesus' Name - A
 All Hail the Power of Jesus' Name - B
 All People That on Earth Do Dwell
 All Praise to Thee, My God, This Night
 All Things Bright and Beautiful
 Alleluia! Sing to Jesus!
 Amazing Grace
 America
 Angels from the Realms of Glory
 Angels We Have Heard on High
 As with Gladness Men of Old
 At the Cross Her Station Keeping
 At the Lamb's High Feast We Sing
 Away in a Manger - A
 Away in a Manger - B
 Be Joyful , Mary
 Be Thou My Vision
 Beneath the Cross of Jesus
 Beyond the Sunset
 Blessed Assurance, Jesus is Mine!
 Blessed Jesus, at Your Word
 Blessing and Honor
 Blest Be the Tie That Binds
 Break Thou the Bread of Life
 Breathe on Me, Breath of God
 Christ the Lord Is Risen Today
 Come, Christians, Join to Sing
 Come, Holy Spirit, Heavenly Dove
 Come, Thou Almighty King
 Come, Thou Fount of Every Blessing
 Come, Thou Long-Expected Jesus - A
 Come, Thou Long-Expected Jesus - B
 Come, Ye Faithful, Raise the Strain
 Come, Ye Thankful People, Come
 Creator of the Stars of Night
 Crown Him with Many Crowns
 Doxology (w/Amen ending - 1 verse only)

Eternal Father, Strong to Save
 Fairest Lord Jesus
 Faith of Our Fathers
 Fight the Good Fight
 For All the Saints
 For the Beauty of the Earth
 Glorious Things of Thee Are Spoken
 Glory Be to the Father
 Go to Dark Gethsemane
 God of Grace and God of Glory
 God of the Ages, Whose Almighty Hand
 God Rest You Merry, Gentlemen
 God with Hidden Majesty
 Good Christian Men, Rejoice
 Guide Me, O Thou Great Jehovah
 Hark! The Herald Angels Sing
 Holy God, We Praise Your Name
 Holy Spirit, Truth Divine
 Holy, Holy, Holy
 How Brightly Beams the Morning Star
 How Firm A Foundation
 How Great Thou Art
 I Am the Bread of Life
 I Love Thy Kingdom, Lord
 I Sing A Song of the Saints of God
 I Sing the Mighty Power of God
 Immortal, Invisible, God Only Wise
 In Christ There Is No East or West - A
 In Christ There Is No East or West - B
 In the Cross of Christ I Glory
 In the Garden
 It Came upon a Midnight Clear
 Jesus Christ Is Risen Today
 Jesus Loves Me!
 Jesus Shall Reign Where'er the Sun
 Jesus, Lover of My Soul - A
 Jesus, Lover of My Soul - B
 Jesus, Priceless Treasure
 Jesus, The Very Thought of Thee
 Jesus, Thou Joy of Loving Hearts
 Joy to the World
 Joyful, Joyful We Adore Thee
 Just As I Am, without One Plea

Lead on O King Eternal
 Let All Mortal Flesh Keep Silence
 Lift Up Your Heads, Ye Mighty Gates
 Lo, How a Rose E're Blooming
 Lord, Speak to Me That I May Speak
 Lord, Who Throughout These Forty Days
 Love Divine, All Loves Excelling - A
 Love Divine, All Loves Excelling - B
 More Love to Thee, O Christ
 Morning Has Broken
 My Country, 'Tis of Thee
 My Hope Is Built on Nothing Less
 Near to the Heart of God
 Now Thank We All Our God
 Now The Day Is Over
 O Beautiful for Spacious Skies
 O Come and Sing Unto the Lord
 O Come, All ye Faithful
 O Come, O Come Emmanuel
 O God, Our Help in Ages Past
 O Jesus, I Have Promised
 O Little Town of Bethlehem
 O Love That Wilt Not Let Me Go
 O Master, Let Me Walk with Thee
 O Perfect Love
 O Sacred Head Now Wounded
 O Word of God Incarnate
 O Worship the King
 O, for a Closer Walk with God - A
 O, for a Closer Walk with God - B
 O, for a Thousand Tongues to Sing
 On Jordan's Bank the Baptist's Cry
 Open My Eyes That I May See
 Open Now Thy Gates of Beauty
 Praise My Soul, the King of Heaven
 Praise to the Lord, the Almighty
 Rejoice, the Lord Is King
 Rejoice, Ye Pure In Heart
 Ride On ! Ride On in Majesty
 Rock of Ages
 Savior, Like a Shepherd Lead Us
 See Amid the Winter's Snow
 Shall We Gather at the River

Silent Night, Holy Night
 Songs of Thankfulness and Praise
 Spirit Divine, Accept Our Prayers
 Spirit of God, Descend Upon My Heart
 Stand Up and Bless the Lord
 Sweet Hour of Prayer
 Take My Life
 The Church Is One Foundation
 The Day of Resurrection!
 The First Noel
 The King of Love My Shepherd Is
 The Lord Is My Shepherd, I'll Not Want
 The Old Rugged Cross
 The Strife Is O'er
 Thine Is the Glory
 This Is My Father's World
 To God Be the Glory
 To Jesus Christ Our Sovereign King
 Wake, O Wake, and Sleep No Longer
 We Gather Together
 We Give Thee but Thine Own
 We Three Kings of Orient Are
 What Child Is This
 What Wondrous Love Is This
 When I Survey the Wondrous Cross - A
 When I Survey the Wondrous Cross - B
 When in Our Music God Is Glorified
 When Morning Gilds the Skies
 Where Cross the Crowded Ways of Life
 While Shepherds Watched Their Flocks - A
 While Shepherds Watched Their Flocks - B
 Ye Servants of God, Your Master Proclaim
 Ye Watchers and Ye Holy Ones

APPENDIX C: VISUAL KEY RANGE CHART



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