Renaissance
R370
For more than fifty years--practically the entire history of electronic organs--the Allen Organ Company has sought to build the finest organs that technology would allow.

In 1939, Allen built and marketed the world’s first purely electronic oscillator organ. The tone generators for this first 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 the oscillator organs with transistors. Thousands of transistorized instruments were built, including some of the largest, most sophisticated oscillator organs.

Only a radical technological breakthrough could improve upon the fine performance of Allen’s solid-state oscillator organs. Such a breakthrough came in conjunction with the U.S. Space Program in the form of highly advanced digital microcircuits.

Renaissance™ organs are the product of years of refinement in digital sound and control techniques by Allen engineers. It represents the apex of computer technology applied to exacting musical tasks. The result is an instrument of remarkably advanced tone quality and performance.

Congratulations on the purchase of your new Allen Renaissance™ Organ! You have acquired the most advanced electronic organ ever built, one that harnesses a modern computer to create and control beautiful organ tones.

Familiarize yourself with the instrument by reading through this booklet. The sections on stop description and organ registration are intended for immediate use as well as for future reference.
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DESCRIPTION OF STOPS

PITCH FOOTAGE

The number appearing on each stop along with its name indicates the “pitch” or “register” of the particular stop. It is characteristic of the organ that notes of different pitches may be sounded from a single playing key. When this sound corresponds to the actual pitch of the playing key, the note (or 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 will be Middle C. If it sounds an octave higher, it is called 4’ or octave pitch. If it sounds two octaves higher, it is called 2’ pitch, while a stop sounding three octaves higher is at 1’ pitch. Likewise, a 16’ stop sounds an octave lower, and a 32’ stop sounds two octaves lower.

Stops of 16’, 8’, 4’, 2’, and 1’ pitch all have octave relationships, that is, these even numbered stops all sound octaves of whatever key is depressed. Pitches other than octaves are also used in organ playing. Their footage number always contains a fraction, and they are referred to as Mutations. Among these are the 2-2/3’ Nasard and Quinte, 1-3/5’ Tierce, and 1-1/3’ Quintflöte. Because they introduce unusual pitch relationships with respect to the fundamental (8’) tone, they are most effective when combined with other stops, and are used either in solo passages or in small ensembles of flutes (see explanation of Cornet in Section II, Page 16).

TONAL FAMILIES

Organ tones divide into two main categories: flues and reeds. In a pipe organ, 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 tones, flute tones, and string tones. Compound stops and hybrid stops are variations within these three families.

The term *imitative* means that the organ stop imitates the sound of the corresponding orchestral instrument; for example, an imitative 8’ Viola would be a stop voiced to sound like an orchestral viola.

<table>
<thead>
<tr>
<th>Principal Voices</th>
<th>Characteristic organ tone, not imitative of orchestral instruments. Usually present at many pitch levels, as well as in all divisions. Rich, warm, and harmonically well developed.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Principal</td>
<td></td>
</tr>
<tr>
<td>Diapason</td>
<td></td>
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<tr>
<td>Octave</td>
<td></td>
</tr>
<tr>
<td>Super Octave</td>
<td></td>
</tr>
<tr>
<td>Fifteenth</td>
<td></td>
</tr>
<tr>
<td>Quinte</td>
<td></td>
</tr>
</tbody>
</table>
### Flute Voices

**Open:**
- Harmonic Flute
- Koppleflöte
- flute mutation stops

**Stopped:**
- Holzgedackt
- Bourdon
- Lieblichgedackt
- Rohr Bourdon

Voices of lesser harmonic development than Principal. Open flutes somewhat imitative; stopped flutes not. Present at all pitch levels and in all divisions.

### String Voices

- Gamba
- Violone
- Viola Céleste

Mildly imitative voices of brighter harmonic development than Principal. Usually appear at 8’ pitch.

### Compound Voices

- Mixture
- Cornet

Voices produced by more than one rank sounding simultaneously.

### Hybrid Voices

- Gemshorn
- Erzähler
- Spitzflöte

Voices that combine the tonal characteristic of two families of sound, e.g., flutes and principals, or strings and principals.

In **reed** pipes, a metal tongue vibrates against an opening in the 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:

### Reed Voices

**Chorus or Ensemble:**
- Waldhorn
- Tromba
- Posaune
- Clairon
- Bombard

**Solo:**
- Oboe
- Clarinet
- Krummhorn

Voices of great harmonic development; some imitative, others not.

The Allen Digital Computer Organ provides authentic examples of various types of voices as listed above. Some of these are protected by copyrights owned by the Allen Organ Company. The voices are stored in memory devices, each having affixed to it a copyright notice; e.g., © 1996 AOCO, © 1997 AOCO, etc., pursuant to Title 17 of the United States Code, Section 101 et seq.
RENAISSANCE 370 STOP LIST

Following is a discussion of individual stops and how they are generally used. Please note that slight variations in specifications may be encountered.

PEDAL ORGAN:

32’ Contre Violone Rich string tone at the bottom of the Pedal Division.

16’ Diapason The 16’ member of the Pedal Principal Chorus. Strongest Pedal Division flue stop.

16’ Bourdon Stopped flute tone of weight and solidity.

16’ Violone Rich string tone, gives registrations more definition.

16’ Lieblichgedackt (Swell Expressed) Softer stopped flute of delicacy and definition. Useful when the softest 16’ pitch is required.

8’ Octave 8’ member of the Pedal Principal Chorus.

8’ Gedacktflöte Stopped flute tone of 8’ pitch, useful in adding clarity to a pedal line in combination with the 16’ Bourdon or 16’ Lieblichgedackt.

4’ Choralbass Pedal 4’ principal tone.

4’ Flute Stopped flute one octave above 8’ Gedacktflöte pitch.

Mixture IV Four rank mixture compound stop of principal tones. One pedal keyed produces four distinct pitches at octave and fifth relationships. Used to crown the Pedal Principal Chorus.

32’ Contre Bombarde A robust French reed that lends strength and snarl to the Pedal line. Used with large stop combinations.

16’ Waldhorn (Swell Expressed) Imitation of the hunting horn. Excellent reed stop to combine with other reeds or flues.

16’ Bombarde A strong Pedal reed that lends strength and snarl to the Pedal line.

8’ Trompete Clear Pedal reed useful in adding definition to a full pedal combination, or as a solo Pedal trumpet.
PEDAL ORGAN continued:

4’ Clairon  A bright 4’ chorus reed. Combines with the 16’ Bombarde and 8’ Trompete to form the full Pedal Reed Chorus. Particularly useful as a solo voice.

For PEDAL COUPLERS and MIDI to PEDAL see this section page 11.

PEDAL SECOND VOICES:

The voices of several stops in the Pedal Division can be instantly replaced by a Pedal Second Voice. This is done by engaging the Gt-Pd 2nd VOICES drawknob along with the drawknobs that have red italicized additional voice names in the Pedal Division.

16’ Prinzipal  Foundation voice with more high harmonics than the primary 16’ Diapason pedal voice.

16’ Subbass  Stopped Bass Flute with more chiff sound than the 16’ Bourdon

8’ Oktav  Foundation stop of diapason tone quality. More articulation tones than the primary Pedal 8’ Octave.

32’ K Posaune  Sounds one octave below the 16’ Posaune.

16’ Posaune  A strong Pedal Division reed that lends fire to the pedal line when properly used in the Reed Chorus. Brighter than the 16’ Bombarde.

SWELL ORGAN:

8’ Flûte Celéste II  Two soft flute tones, one tuned slightly sharp from the other, that create a soft accompaniment celeste.

8’ Viola Pomposa  The loudest Viola of the organ. The greatest harmonic development of the Viola family. Good solo as well as ensemble voice.

8’ Viola Celéste #  String tone, tuned slightly sharp from and used with the 8’ Viola to create a warm string celeste.
8’ Viola Celéste b  String tone, tuned slightly flat to be used with both the 8’ Viola and the 8’ Viola Celéste # together to create the warmest string celeste on the organ.

Celestes are created by using at least two sounds, one tuned at standard pitch, and one tuned slightly sharp creating a warm, undulating, “celestial” effect.

8’ Rohr Bourdon  Half stopped flute tone. When used with other voices it will add fullness. More harmonics than stopped flutes.

4’ Octave Geigen  Light principal sound with much harmonic development at the 4’ pitch level.

4’ Travers Flute  Imitative of, and louder than the orchestral flute.

2-2/3’ Nasard  Flute mutation that sounds one octave and a fifth above the 8’ pitch. Always used with other stops (usually beginning with 8’) for coloration.

2’ Piccolo  Imitative of the orchestral piccolo. Much quieter than the principal Fifteenth. Useful as soft solo or with building choruses and ensembles.

1-3/5’ Tierce  Flute mutation that causes the pitch to sound a seventeenth (two octaves and a third) higher than played. Used with 8’ stops or flute ensembles.

Fourniture IV  Four rank mixture comprised of principal tones. Each note played produces four distinct pitches at octave and fifth relationships to the key being pressed. The Fourniture IV should never be used without stops of lower pitches. The Fourniture IV is typically added to diapason or flute ensembles, or to the Reed Chorus.

16’ Waldhorn  Imitation of the hunting horn. Excellent reed stop to combine with other reeds or flues.

8’ Vox Humana  Attempts to simulate the human voice from a distance. A gentle reed with many overtones. Can be used with flutes or strings.

8’ Oboe  Soft solo voice of nasal timbre. It will give definition to the Flute Chorus when added.
SWELL ORGAN continued:

8’ French Trumpet  A dominating Reed Chorus or solo voice.

4’ Clairon  A bright 4’ chorus reed. Combined with the 16’ Waldhorn and 8’ French Trumpet to form the Swell Reed Chorus. Particularly useful as a solo voice.

Tremulant  Use of this stop provides a vibrato effect, natural in the human voice and wind instruments, when used with the stops in the Swell division. This drawknob must be engaged along with the TREMULANTS FULL stop to create the large tremulant sounds.

16’ Swell to Swell  Swell Sub-octave Coupler. Swell voices speak one octave lower than the pitch indicated on the stop, when played from the Swell Manual. Also see Couplers: Section II, Page 11.

Swell Unison Off  Turns off stops in the Swell Division at the pitch level at which they are drawn, while allowing them to speak at octave and sub-octave pitch levels when octave and sub-octave couplers are drawn.

4’ Swell to Swell  Swell Octave Coupler. Swell voices speak one octave above the pitch indicated on the stop, when played from the Swell Manual. Also see Couplers: Section II, Page 11.

For other SWELL COUPLERS and MIDI to SWELL see this section page 12.

SWELL SECOND VOICES:

Several voices in the Swell Division can be instantly replaced by Swell Second Voices. This is done by engaging the Swell Second Voicing drawknob along with Swell Division drawknobs having additional voice names written in italicized red.

8’ Erzähler Celéste II  Two rank hybrid stop. One of the two ranks is tuned slightly sharp to create a warm accompaniment celeste. Combining tonal characteristics of the string and flute families, result in these small-scale Gemshorn voices.

8’ Salicional  Primarily an ensemble voice. More upper harmonics than the Viola Pomposa. The on-pitch member of the 8’ Voix Celéste.
SWELL SECOND VOICES continued:

8’ Voix Celeste  The sharp tuned member of the Second Voice Voix Celeste. To be used with the 8’ Salicional.
8’ Geigen Diapason  A diapason with more loudness of overtones.
Mixture IV  Four rank mixture comprised of bright principal tones. Each note played produces four distinct pitches at octave and fifth relationships to the key being pressed.
8’ Vox Humaine  A French version of the primary voice, 8’ Vox Humana.
8’ Hautbois  A French version of the primary voice, 8’ Oboe.

GREAT ORGAN:

16’ Double Diapason  One octave lower in pitch, tonally similar and slightly quieter than the 8’ 1st Diapason.
8’ 1st Diapason  Foundation stop of the Great Principal Chorus, which consists of the Diapason 8’, Octave 4’, and Super Octave 2’. Larger of the two diapasons and of English style.
8’ 2nd Diapason  E. M. Skinner style of diapason. Very clear sounding yet not quite as large as the 1st Diapason.
8’ Gamba  Moderately loud string stop that blends well with flues as well as strings. More fundamental tone than the Violone and more harmonics than the flutes. Rounds out the Great Unison Chorus.
8’ Harmonic Flute  Tone quality of solo stature and the basic tone of the Flute Chorus.
4’ Octave  The 4’ member of the Great Principal Chorus.
4’ Flute  Not shrill yet useful in brightening an ensemble of flues.
2-2/3’ Twelfth  Foundation mutation stop that sounds an octave and a fifth above the 8’ pitch. It helps bind higher pitches to the fundamental tone. To be used with other stops (usually beginning with 8’) for coloration.
GREAT ORGAN continued:

- **2’ Fifteenth** Foundation stop that adds brilliance to any combination of stops. The Super Octave of a Principal Chorus.

- **Mixture IV** Four rank mixture, a compound stop of principal tones. Four notes in octave and fifth relationships sounding 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.

- **Cymbale III** Three rank mixture, a compound stop of principal tones. Each note produces three distinct pitches at octave and fifth relationships to the key being pressed. Tradition is to never use the Cymbale III without also using stops of lower pitches. It is typically added to Diapason or Flute ensembles after the Mixture IV has been engaged.

- **16’ Double Trumpet** Rich sounding chorus reed that provides a solid base for the Great Reed Chorus.

- **8’ Tromba** Harmonically full, more like trombone tone than trumpet tone. Excellent reed chorus building voice and will offer a less bright reed solo voice.

- **Tremulant** Creates a quivering or shimmering of the Great Division voices. This drawknob must be engaged along with the TREMULANTS FULL stop to create the larger tremulant.

- **Chimes** Typical Tubular Chimes that are expressed with the Great/ Pedal expression shoe. (General Rocker Tablet)

For GREAT COUPLERS and MIDI to GREAT see this section page 12.

**GREAT SECOND VOICES:**

The voices of several stops in the Great Division can be instantly replaced by a Great Second Voice. This is done by engaging the Gt-Pd 2nd VOICES drawknob along with the drawknobs that have red italicized additional voice names in the Great Division.

- **16’ Quintaten** Stopped flute with firm prime tone and weak third harmonic.
GREAT SECOND VOICES continued:

8’ Prinzipal  Similar to the Diapason with more chiff articulation in its sound.
8’ Bourdon  A stopped flute, not as loud or articulate as the Metalgedackt.
8’ Metalgedackt  Articulate flute tone.
4’ Oktav  Similar in timbre to 8’ Prinzipal, not as loud and sounds one octave higher.
Sesquialtera II  Two rank compound foundation mixture.

GREAT EXPRESSION CONTROLS:

Great-Pedal Unenclosed
When used, the expression control for the Great and Pedal Divisions is disabled, i.e., the Great and Pedal stops will sound at full volume regardless of the position of the Great-Choir-Pedal expression shoe. The Choir Division will continue to be under expression using the Great-Choir-Pedal expression shoe.

Great-Choir Manual Transfer
Transposes stops in the Great and Choir Divisions so that the stops from the Great Division are played from the bottom Choir Manual and the stops from the Choir Division are played from the second Great Manual.

CHOIR ORGAN:

16’ Erzähler  Hybrid voice that sounds one octave lower than the 8’.
8’ Erzähler  Hybrid stop that combines the tonal characteristics of the string and flute families, resulting in a small-scale Gemshorn. Useful accompaniment voice.
8’ Erzähler Celeste  To be used in combination with the Erzähler 8’ to create a warm accompaniment celeste.
CHOIR ORGAN continued:

8’ Holzgedackt Large sounding stopped flute.
4’ Prinzipal Bright classical Principal voice.
4’ Koppleflöte An open metal flute. Primarily a voice to be used in combination with other voices. Not too bright, not too dull; good for Baroque as well as modern Flute tone.
4’ Erzähler Celeste II Two gentile hybrid tones, one tuned slightly sharp from the other to create a warm celeste.
2’ Oktav An open metal stop that produces foundation tone at the 2’ pitch.
1-1/3’ Quintflöte Open flute mutation that causes the pitch to sound a nineteenth (two octaves and a fifth) higher than played. Used with 8’ stops or flute ensembles.
Zimbel III Three rank mixture made from foundation tones.
16’ Rankett A nasal-sounding reed stop of considerable harmonic development. The Rankett carries very little fundamental and adds character both as a solo and ensemble stop.
8’ Krummhorn Imitative of a very old instrument Krummhorn (crooked horn). Audsley describes it to mean cor horn, and morne mournful. This reed voice can be used alone as a solo stop or combined with light flues for a somewhat rounder reed solo effect.
Tremulant Use of this stop provides a vibrato effect, natural in the human voice and wind instruments, when used with the stops in the Choir division.

For CHOIR COUPLERS and MIDI to Choir see this section page 12.

CHOIR PERCUSSION SECOND VOICES:

The voices of several stops in the Choir Division can be instantly replaced by Choir Percussion Second Voices. This is done by engaging the Choir Percussion drawknob along with the Choir Division drawknobs that have additional voice names written in italicized red.
CHOIR PERCUSSION SECOND VOICES continued:

- **Harpsichord**: Imitative of the Baroque stringed instrument.
- **Handbells**: Imitative of the sounds made by bell choirs.
- **Orchestral Harp**: Imitative of the orchestral stringed instrument.
- **Celesta**: Imitative of the same named orchestral percussion instrument.

SOLO FLOATING DIVISION:

- **8’ Tuba Mirabilis**: Reed voice of the trumpet variety. A more powerful commanding voice than other reeds.
- **16’ Tuba Mirabilis**: Speaks one octave lower that the 8’ Tuba Mirabilis.
- **8’ Cor Anglais**: Imitative of the orchestral English Horn. Voiced such that it can be used in ensembles or as a solo voice.
- **8’ Corno di Bassetto**: Imitative of the orchestral instrument that has similar tone to the clarinet however, not as “woody” sounding.
- **8’ French Horn**: Imitative of the orchestral version of the same name.
- **8’ Flauto Mirabilis**: Large, loud, solo flute.
- **Solo Tremulant**: Turns on tremulant on Solo Division voices. (General)

COUPLERS – ALL DIVISIONS:

- **8’ Great to Pedal**: Connects all Great stops so they may be played with the Pedal keys at the pitch indicated on the Great stops.
- **8’ Swell to Pedal**: Connects all Swell stops so they may be played with Pedal keys at the pitch indicated on the Swell stops.
- **4’ Swell to Pedal**: Connects all Swell stops to the Pedal an octave higher in pitch than the Swell stop indicates.
COUPLERS – ALL DIVISIONS continued:

<table>
<thead>
<tr>
<th>Coupler</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8’ Choir to Pedal</td>
<td>Connects all Choir stops so they may be played with Pedal keys at the pitch indicated on the Choir stops.</td>
</tr>
<tr>
<td>8’ Solo on Pedal</td>
<td>Enables Solo Floating Division stops to be played with the Pedal keys at the pitch indicated on the Solo stops.</td>
</tr>
<tr>
<td>MIDI to Pedal</td>
<td>Enables Pedal Manual to transmit MIDI information.</td>
</tr>
<tr>
<td>16’ Swell to Great</td>
<td>Intermanual coupler connecting all Swell stops to the Great manual an octave lower than indicated.</td>
</tr>
<tr>
<td>8’ Swell to Great</td>
<td>Intermanual coupler connecting all Swell stops to the Great manual at the pitch indicated on the Swell stops.</td>
</tr>
<tr>
<td>4’ Swell to Great</td>
<td>Intermanual coupler connecting all Swell stops to the Great manual an octave higher than indicated.</td>
</tr>
<tr>
<td>8’ Choir to Great</td>
<td>Intermanual coupler connecting all Choir stops to the Great manual at the pitch indicated on the Choir stops.</td>
</tr>
<tr>
<td>8’ Solo on Great</td>
<td>Enables Solo Floating Division stops to be played from the Great MANUAL at the pitch indicated on Solo stops.</td>
</tr>
<tr>
<td>MIDI to Great</td>
<td>Enables Great Manual to transmit MIDI information.</td>
</tr>
<tr>
<td>16’ Swell to Choir</td>
<td>Intermanual coupler connecting all Swell stops to the Choir manual an octave lower than indicated.</td>
</tr>
<tr>
<td>8’ Swell to Choir</td>
<td>Intermanual coupler connecting all Swell stops to the Choir manual at the pitch indicated on the Swell stops.</td>
</tr>
<tr>
<td>4’ Swell to Choir</td>
<td>Intermanual coupler connecting all Swell stops to the Choir manual on octave higher than indicated.</td>
</tr>
<tr>
<td>8’ Solo on Choir</td>
<td>Enables Solo Floating Division stops to be played from the Choir Manual at the pitch indicated on Solo stops.</td>
</tr>
<tr>
<td>MIDI to Choir</td>
<td>Enables Choir Manual to transmit MIDI information.</td>
</tr>
<tr>
<td>8’ Solo on Swell</td>
<td>Enables Solo Floating Division stops to be played from the Swell Manual at the pitch indicated on Solo stops.</td>
</tr>
<tr>
<td>MIDI to Swell</td>
<td>Enables Swell Manual to transmit MIDI information.</td>
</tr>
</tbody>
</table>
GENERAL STOPS:

Solo Tremulant  
Solo Division Tremulant ON or OFF.

Great Chimes  
Turns ON or OFF the Chimes of the Great Division.

Melody Coupler  
When used, with an appropriate Swell stop, such as the French Trumpet or Oboe, this feature will automatically key that voice from the highest note played on the Great manual, accentuating of the melody.

Bass Coupler  
When this coupler is used, the lowest note played on the Great manual will automatically key the appropriate Pedal note; playing those stops that have been drawn in the Pedal Division as well as those in the Great division.

Tremulants Full  
When activated along with one or more of the Divisional Tremulant stops, this control causes the Divisional Tremulants to become less subtle and much deeper in their oscillation than classical tremulants. Useful for Gospel music, etc. More extreme than the human voice vibrato. Also known as tremolo.

Alternate Tuning  
"On"  
When activated, the organ’s tuning will change to the alternate tuning selected from the Console Controller™. See Section B-1, Page 11, of the Renaissance Console Controller™ and MIDI Guide (AOC P/N 033-0099) for more information about alternate tunings.

GENERAL ANTIPHONAL CONTROLS:

Swell Mains Off & Gt / Pd Mains Off.  
General Rocker Tablets  
To be used in conjunction with the Swell to Antiphonal and Gt / Pd to Antiphonal rocker tablets. These controls disable the Main speakers. If either of these controls are engaged and the corresponding Antiphonal controls are not engaged, that division will make no sound.

Main OFF (piston)  
Choir Manual right hand end block.  
Green indicator light is ON when activated.  
To be used in conjunction with the Choir Antiphonal ON piston. These pistons are located on the surface of the Choir Manual’s right hand end block. This control disables the Choir Division’s Main speakers. If engaged while the Choir Antiphonal ON control is not engaged, The Choir Division will make no sound.
GENERAL ANTIPHONAL CONTROLS continued:

Swell to Antiphonal & Gt / Pd to Antiphonal. Causes the appropriate division’s voices to speak from Antiphonal speakers. With one of these engaged, that division will speak from both the Antiphonal and Main speakers. When the corresponding Main Off controls are also engaged, the Antiphonal will sound alone.

ANT. ON (piston) Choir Manual right hand end block. Green indicator light is ON when activated. Causes the Choir Division’s voices to speak from Antiphonal speakers. With this piston engaged, the Choir Division will speak from both the Antiphonal and Main speakers. When the Choir Main Off piston is also engaged, the Choir Antiphonal will sound alone.

SOLO UNEN. (piston) Choir Manual left hand end block. Red indicator light is ON when activated. Causes the expression control for the Solo Division to become disabled, i.e., the Solo stops will sound at full volume regardless of the position of the Swell - Solo expression shoe. Expression of the Swell Division will continue to be controlled by using the Swell - Solo expression shoe.

G / P UNEN. (piston) Great Manual left hand end block. Red indicator light is ON when activated. Causes the expression control for the Great and Pedal Divisions to become disabled; i.e., any Great/Pedal stops will sound at full volume regardless of the position of the Great - Choir - Pedal expression shoe. Expression of the Choir Division can continue to be controlled by using the Great - Choir - Pedal expression shoe.

EXPRESSION SHOES (PEDALS):

There are three expression shoes on the Renaissance 370. The one on the far right is the Crescendo pedal (see next page). The pedal on the far left expresses the Great, Choir, and Pedal Divisions, while the center expression shoe affects the Swell and Solo Divisions.
CRESCENDO PEDAL:

One master Crescendo, for all divisions, gradually adds stops as this pedal is opened. Sequential green, yellow, and red lights indicate the relative position of this pedal.

Crescendo B is a secondary Crescendo that can be programmed by the organist or Allen representative. Refer to the Renaissance Console Controller™ and MIDI Guide, (AOC P/N 033-099) Section B-3, Page 14, to change the settings of this second Crescendo. Indiscriminate use of the Crescendo pedal, in lieu of careful registration, should be avoided.

TUTTI I & II:

The Tutti I and II are each set for full organ registrations. Tutti II is a fuller registration than Tutti I. These Tuttis are turned on by using manual pistons located beneath the Swell manual directly above the Cancel piston. The pistons are reversible, i.e., pressing them will reverse the setting of the corresponding Tutti on or off. The Cancel button will also turn off the Tuttis. Red signal lights, appropriately labeled and located on the right side of the console to the left of the expression indicators, illuminate when Tutti I or II is in operation. A second set of Tuttis can be programmed by the organist. Like the Crescendo, indiscriminate use of these devices should be avoided. Refer to the Renaissance Console Controller™ and MIDI Guide, (AOC P/N 033-099) Section B-3, page 14, to change the settings of the secondary Tuttis.
ARTISTIC REGISTRATION

This section is intended to aid the organist that is looking for suggestions. By no means should registration be confined to only what is included here. Organ registrations fall into two broad categories: solo registrations and ensembles.

SOLO REGISTRATIONS:

A solo registration is one in which a melody is played on one keyboard, the accompaniment part played on another keyboard, and the pedal often provides a supportive 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 sound without being too loud.

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 Trumpet, colors the sound further and increases its volume slightly. Adding an 8' flute to a reed will add body and fullness to the tone.

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: 8' Rohr Bourdon, 4' Traverse Flute, 2-2/3' Nasard, 2' Piccolo, and 1-3/5' Tierce. This solo combination was used widely in Baroque organ music, but it is just as appropriate for some modern music. Useful variations of the Cornet may be achieved by eliminating the 4', the 2', or 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 the solo an octave lower than written, the notes will 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 will be gained, because each stop has its own tone color.

For accompaniment, desirable voices are the 8' flutes and 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, but the flute will often contribute more interest because of its greater contrast.

Try to seek a “natural” balance of volume between solo and accompaniment. This will be especially easy to accomplish since the solo and accompaniment are under separate expression.
SUGGESTED SOLO REGISTRATIONS:

CHIMES SOLO

Swell: (8’) Flûte Céleste II; or 8’ Rohr Bourdon, 8’ Viola, and 8’ Viola Céleste  
Great: Chimes  
Choir: 8’ Erzähler, and 8’ Erzähler Celeste  
Pedal: 16’ Lieblichgedackt, 8’ Swell to Pedal

*Play solo on Great and accompaniment on Swell or Choir.*

SWELL SOLO COMBINATION

Swell: 8’ Rohr Bourdon, 4’ Traverse Flute, 2-2/3’ Nasard, 2’ Piccolo, 1-3/5’ Tierce  
Great: 8’ Metalgendeckt (second voice); or 8’ Gambe  
Choir: 8’ Holtzgedeckt  
Pedal: 16’ Lieblichgedackt, 8’ Gedacktflöte

*Play solo on Swell and accompaniment on Great or Choir.*

FLUTE SOLO

Swell: 8’ Viola, 8’ Viola Céleste; or (8’) Flûte Céleste II  
Great: 8’ Harmonic Flute or couple Solo on Great, with 8’ Flauto Mirabilis (with or without tremolo)  
Choir: 8’ Erzähler, 8’ Erzähler Céleste  
Pedal: 16’ Lieblichgedackt, 8’ Swell to Pedal

*Play solo on Great and accompaniment on Swell or Choir.*

REED SOLO

Swell: 8’ Viola Pomposa, 8’ Rohr Bourdon, 4’ Traverse Flute, 4’ Octave Geigen, 8’ Oboe,  
Great: 8’ 2nd Diapason, 8’ Gamba, 4’ Octave, 8’ Swell to Great,  
Choir: Solo on Choir, with 8’ Tuba Mirabilis  
Pedal: 32’ Contre Violone, 16’ Bourdon, 16’ Violone, 8’ Octave, 8’ Swell to Pedal

*Play solo on Choir and accompaniment on Great.*

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

1. Seek tonal contrast between solo and accompaniment.  
2. Be sure the solo is louder than the accompaniment.  
3. Choose a solo whose character is appropriate to the specific piece.
ENSEMBLE REGISTRATIONS:

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.

Volumes have been written on the subject of ensemble registration; here is a summary of the major points. Ensembles are created by combining stops. 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 ensemble groupings or “choruses”:

The **Principal Chorus** is the most fully developed with foundation voices of various divisions at every pitch from 16’ Diapason to the 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 is not as loud as 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. An Oboe, for example, is usually a solo stop. The various Trumpets, Tromba Clairons, Posaune Bombarde, 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 Section I.

The Swell Reed chorus consists of Waldhorn 16’, French Trompet 8’, and Clarion 4’. These stops create a blaze of richly harmonic sounds that bring “fire” to top off both flue choruses.

Another special ensemble combination is the Cornet, which was discussed 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 to add weight and thickness to the sound.
SUGGESTED ENSEMBLE REGISTRATIONS:

GREAT MANUAL DIVISION

1. 8’ Harmonic Flute, 4’ Flute
2. 8’ 2nd Diapason, 4’ Octave
3. 8’ 1st & 2nd Diapason, 4’ Octave,
4. 8’ 2nd Diapason, 4’ Octave, 2’ Fifteenth
5. 8’ 1st & 2nd Diapason, 4’ Octave, 2’ Fifteenth, Mixture IV
6. 8’ 1st & 2nd Diapason, 8’ Harmonic Flute, 4’ Octave, 4’ Flute, 2’ Fifteenth, Mixture IV,
7. 8’ 1st & 2nd Diapason, 8’ Harmonic Flute, 4’ Octave, 4’ Flute, 2’ Fifteenth, Mixture IV, Cymbale III, 8’ Tromba

SWELL MANUAL DIVISION

1. 8’ Rohr Bourdon, 8’ Viola Pomposa
2. 8’ Rohr Bourdon, 8’ Viola Pomposa, 4’ Traverse Flute
3. 8’ Rohr Bourdon, 8’ Viola Pomposa, 4’ Traverse Flute, 2’ Piccolo
4. 8’ Rohr Bourdon, 8’ Viola Pomposa, 4’ Octave Geigen, 4’ Traverse Flute, 2’ Piccolo
5. 8’ Rohr Bourdon, 8’ Viola Pomposa, 4’ Octave Geigen, 4’ Traverse Flute, 2’ Piccolo, Fourniture IV
6. 8’ Rohr Bourdon, 8’ Viola Pomposa, 4’ Octave Geigen, 4’ Traverse Flute, 2’ Piccolo, Fourniture IV, 16’ Waldhorn, 8’ French Trumpet

The use of the Swell to Great coupler allows these separate ensembles to be combined on the Great manual. For example, the #5 Great and #3 Swell registrations coupled together and played on the Great form a nice round hymn combination.

CHOIR MANUAL DIVISION

1. 8’ Holtzgedeckt, 8’ Erähler
2. 8’ Holtzgedeckt, 4’ Koppleflöte
3. 8’ Holtzgedeckt, 4’ Koppleflöte, 4’ Prinzipal
4. 8’ Holtzgedeckt, 4’ Koppleflöte, 4’ Prinzipal, 2’ Oktav
5. 8’ Holtzgedeckt, 4’ Koppleflöte, 4’ Prinzipal, 2’ Oktav, Zimbel III
6. 8’ Holtzgedeckt, 4’ Koppleflöte, 4’ Prinzipal, 2’ Oktav, Zimbel III, 1-1/3’ Quintflöte
ENSEMBLE REGISTRATIONS continued:

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 constantly rely on one or two 16’ stops along with 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 Allen 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.*


Cherrington, Dr. Sally. *A Church Organist’s Primer.* Volumes I, II, & III.
AOC P/N: 031-0047, 031-0065, 031-0112.
TRANSPOSER

Vast computer capabilities make it possible to perform the sometimes difficult task of transposing, while allowing the organist to play in the notated key. Operation of the Transposer is controlled by the Transposer knob, found inside the Console Controller™ drawer. Neutral (no transposition) position for the knob is marked “●.” To shift the music to a higher key, rotate the knob counter-clockwise. The key can be raised a maximum of five half-steps. To shift to a lower key, rotate the Transposer knob clockwise from “●.” The key can be lowered a total of seven half-steps. A RED INDICATOR LIGHT COMES ON WHENEVER THE TRANSPOSER KNOB IS MOVED FROM THE NEUTRAL (“●”) POSITION. This is to warn the organist that the organ is not ready to play in the same key as when in the Neutral position. This is another reason it is a good habit to operate the instrument with the Console Controller™ drawer open.

WHY TRANSPOSE?

1. Because the range of a song will not always suit the vocal range of a particular singer. By adjusting the Transposer, the piece can be sung more comfortably and effectively.

2. Because some instruments are non-concert pitch. A trumpet in B♭, for example, can play the same music as the organist, if the Transposer knob is set two half-steps lower.

3. Because hymn singing can sometimes be improved by a more favorable key selection. Hymn singing can also be enhanced by playing the hymn in its original key, and then playing a short modulation at the end of the stanza that leads into the key one-half step above the stanza key just completed. If the hymn is already in a fairly high key, it may be preferable to play the first few stanzas with the Transposer pitch lowered one-half or even one whole step, then modulate up to the original key for the final stanza.
VIRTUAL ACOUSTICS SETTINGS

The Digital Reverberation System provides the spatial ambiance of various sizes of reverberant rooms. Although most effective in poor (non-reverberant) acoustic environments, it enhances the sound even in optimal acoustic settings.

There are 21 selectable reverb pallets. One of these is the DEFAULT setting that is not adjustable. The other 20 styles are selectable and adjustable. They allow an organist to modify the sound of the organ to accommodate a room’s changing acoustical properties. (E.g., a room’s reverberation characteristics change as the number of people present changes. Differences in reverberation time also occurs when a room’s windows are opened or closed.)

The rocker switch labeled VIRTUAL ACOUSTICS in the Console Controller™ drawer must be ON to hear the default reverb or one of the 20 customized virtual acoustic selections. The amount of reverb can be changed on the 20 customized selections and is shown in dB (decibels). The range of control is from Ø dB to -3Ø dB. -3Ø dB is the least amount of reverb and Ø dB is the most reverb available.
CARE OF THE ORGAN

BATTERY BACKUP SYSTEM:

The memory for the capture system on your Renaissance Organ is sustained by a Lithium battery. This allows capture settings and related items to be retained in memory when the organ is switched off or unplugged. Under normal circumstances, the Lithium battery should last for several years. A built-in warning system will alert you when the battery becomes weak and needs to be replaced. Always have the Console Controller™ drawer open before the organ is turned on. If there is a problem the window will display:

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Power Failure
REPLACE BATTERY!
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or some other type of self diagnostic display for about six seconds after the organ is switched on. Should the battery in your Renaissance organ require replacement, contact your local authorized Allen Organ service representative.

CLEANING AND POLISHING:

Your Allen Organ constitutes a major advance in long-term maintenance-free operation. There are 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 furniture soap 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. If you need to "polish" the organ for a special event, use only a very high quality wood furniture polish.

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

To polish a clear music rack, a furniture wax polish may be sprayed on a dry cloth and rubbed on the front of the music rack. Keep the wax off of the wood finishes. This will keep the music rack most clear.
INSTALLATION, and VOICING, OF THE ORGAN

INSTALLATION

Wherever your Renaissance organ may be situated, careful installation is a prerequisite to achieving successful results. Your Allen representative is well qualified to guide you in planning for this. Allen Organ factory assistance with planning the installation is available and may be sought by your local Allen representative. Once the organ is installed, be mindful of changes made to the room it is located in. Care must be taken to insure that when acoustical changes occur, your Allen Organ representative is notified.

Bass frequency projection is strongly affected by tone cabinet location. Although none of the tone cabinets should ever be moved once the installation is completed, extra care should be exercised to prevent inadvertent movement of the bass tone cabinets. When chambers have been utilized to house tone cabinets, make sure they are not later used for storage closets. Placing sound absorbent materials (choir robes, flowers, papers, etc.) will only damage the organ’s sound quality.

VOICING

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

If your musical needs change, the Renaissance Organ is capable of having the existing voices replaced with other voices. There are available voices stored in memory on compact discs that can be exchanged with your existing voices. Contact your Allen Organ representative to demonstrate examples and make the changes for you.

Your Allen Organ 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!
USA ONLY
CAUTION

Do not 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 churches where circuit breakers are turned off 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.

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 receiver with respect to the organ’s location.
- Plug the organ into a different electrical outlet, so that the organ and receiver are on different AC branch circuits.

If necessary, the Allen Organ dealer or an experienced radio technician should be consulted for additional suggestions.

CE mark shows compliance with the EMC Directive.
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 churches where circuit breakers are turned off 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.