LDS MDS-30

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ALLEN ORGAN COMPANY

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.

Your MDS organ is the product of years of refinement in digital 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 Digital Computer 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. We call your attention particularly to sections on Transposer, Console ControllerTM, Second Voicing, and MIDI Guide, since these elements are important to realizing the full potential of the instrument.

The sections on stop description and organ registration are intended for immediate use as well as for future reference. Because the Allen Digital Computer Organ offers limitless tonal possibilities, plus authentic tone quality, these subjects can now be more readily explored than ever before.

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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' 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 32', 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 Nasard and Quinte 2-2/3', Tierce 1-3/5', and Quintflöte 1-1/3'. 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).

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 "Viola 8" would be a stop voiced to sound like an orchestral viola.

Principal Voices

Principal Diapason Octave Superoctave Quinte	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.
Flute Voices	
Open Types:	
Harmonic Flute Melodia Flute mutation stops	Voices of lesser harmonic development than principals. Open types somewhat imitative; stopped types not. Present at all pitch levels and in all divisions.
Stopped Types:	
Gedackt Bourdon Quintadena Rohrflöte	
String Voices	
Salicional Viola Voix 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 types:

Trumpet Posaune Clairon

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

Solo types:

Hautbois Clarinet Krummhorn

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., © 1992 AOCO, © 1993 AOCO, etc., pursuant to Title 17 of the United States Code, Section 101 et seq.

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

MDS-30 LDS STOPLIST

PEDAL ORGAN

Contre Violone 32'	Rich string tone at the bottom of the Pedal division.
Diapason 16'	The 16' member of the Pedal principal chorus. Strongest pedal flue stop.
Bourdon 16'	Stopped flute tone of weight and solidity.
Lieblichgedackt 16' (Swell expression)	Softer stopped flute of delicacy and definition. Useful where a soft 16' pitch is required.
Octave 8'	8' member of the Pedal principal chorus.
Gedacktflöte 8'	Stopped flute tone of 8' pitch, useful in adding clarity to a pedal line in combination with the Bourdon 16' or Lieblichgedackt 16'.
Choralbass 4'	Pedal 4' principal tone.
Mixture IV	Compound stop of principal tones. One pedal produces four distinct pitches at octave and fifth relationships to the pedal being pressed. Used to crown the Pedal principal chorus.
Posaune 16' (Swell Expression)	A strong Pedal reed that lends strength and "snarl" to the Pedal line.
Trompete 8'	Clear Pedal reed useful in adding definition to a full Pedal combination, or as a solo Pedal trumpet.

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 Celeste II (8')	Two string tones, one slightly detuned from the other, that create a warm string celeste.
Spitzprinzipal 4'	Hybrid stop which is predominantly principal tone with a stringlike edge.
Koppelflöte 4'	Distinctive stopped flute voice that works well in ensembles of flutes or strings, or as a solo voice.
Nasat 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.
Blockflöte 2'	A delicate, clear open flute at 2' pitch.
Terz 1-3/5'	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	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 and undergird 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.
Clairon 4'	A bright 4' chorus reed. Combines with the Basson 16' and Trompette 8' to form the full Swell reed chorus. Also usable as a solo voice.
Tremulant (on rocker tablet)	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.
Swell Percussion Voices (on rocker tablet)	See separate scction on Second Voicing (page 13).

SWELL PERCUSSION VOICES

Celesta	Delicate percussion sound similar to a music box
Harp	Typical hand-plucked stringed Harp
Handbells	Typical English handbell sound
	GREAT ORGAN
Lieblichgedackt 16' (Swell expression)	Softer stopped flute of delicacy and definition. Useful where a soft 16' pitch is required.
Diapason 8'	Foundation stop of the Great principal chorus.
Rohrflöte 8'	Full-bodied, partially stopped flute tone.
Flute Celeste II (8') (Swell Expression)	Two soft flute tones, one slightly detuned from the other to create a warm celeste.

Octave 4'	The 4' member of the Great principal chorus, which consists of the Diapason 8', Octave 4', and Superoctave 2'.
Spitzflöte 4'	Partially stopped flute tone.
Superoctave 2'	An open metal stop that produces foundation tone at the 2' pitch level.
Waldflöte 2'	Open flute tone at 2' pitch level.
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.
Cymbale III	Compound stop of principal tones. One key produces three distinct pitches at octave and fifth relationships to the key being pressed. The Cymbale III should never be used without stops of lower pitches. It is typically added to Diapason or Flute ensembles after the Mixture IV.
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.
Tremulant	Same as Tremulant in Swell, but affects stops in the Great and Pedal, except for the bottom octave in both divisions.

COUPLERS

Great to Pedal	Connects all Great stops to the Pedal.	
Swell to Pedal	Connects all Swell stops to the Pedal.	
MIDI on Pedal	Opens MIDI channel to the Pedal.	
Swell to Great	Intermanual coupler connecting all Swell stops to the Great manual.	
MIDI on Great	Opens MIDI channel to Great.	
MIDI on Swell	Opens MIDI channel to the Swell.	
GENERALS		
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.	
Melody Coupler	When used with an appropriate solo stop, such as a Swell reed or Solo Organ Voice, this feature will automatically key the highest note played on the Great, allowing accentuation of the melody.	
Alternate Tuning On	When activated, the organ's tuning will change to the alternate tuning selected from the Console Controller TM . See section II.A. of the Console Controller TM and MIDI Guide in this manual for more information about alternate tunings.	

Tremulants Full	When activated along with one or more of the organ's tremulants, this control causes the tremulants to become much deeper in their oscillation than normal classical tremulants. Useful for Gospel music, etc. Also known as "Vibrato."
Reverb (Activated using toggle switch in Console Controller [™] drawe	Engages reverberation system. r)
Main Off	Used in conjunction with the Antiphonal Organ On tablet. This control disables the Main speakers.
Antiphonal Organ On	Causes the organ to speak from the Antiphonal speakers. The organ will speak from both Antiphonal and Main divisions unless the Main Off is also added.

EXPRESSION PEDALS

There are three expression pedals on the MDS-30 LDS. The one on the far right is the Crescendo pedal (see below). The pedal on the left expresses the Great and Pedal divisions, while the center expression pedal affects the Swell.

CRESCENDO PEDAL

One Crescendo, for all divisions, gradually adds stops as the pedal is depressed. Indicator lights show the relative position of the pedal. Crescendo B is a secondary Crescendo that can be programmed by the organist. Indiscriminate use of the Crescendo pedal, in lieu of careful registration, should be avoided.

TUTTI I & II

The Tutti I and II are settings of full organ registration. Tutti II is a fuller registration than Tutti I, most noticeably in the Pedal division. The Tuttis are

turned on by using manual pistons located beneath the Swell manual directly above the Cancel button. The pistons are reversible, meaning that pressing them will turn the corresponding Tutti on or off. The Cancel button will also turn off the Tuttis. Pressing Tutti II will cancel Tutti I. Red signal lights, appropriately labeled and located on the right side of the console to the left of the expression indicators, turn on 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.

SECOND VOICING

In addition to the comprehensive stop specification of the MDS-30-LDS, there are a variety of percussion stops that can be accessed from the Swell manual using the **Swell Percussion Voices**. The second voices are accessed from drawknobs in the Swell division. The stopnames are printed on the drawknobs in red superscript as follows: Handbells, Harp, and Celesta. The Swell Percussion Voices are activated by first moving the Swell Percussion Voices rocker tablet to the "on" position, and then drawing the desired stop in the Swell division.

CELESTES

Celestes are created by using two sounds, one tuned slightly sharp or flat of the other, creating a warm, undulating, "celestial" effect. Drawing the Viola Celeste II (8') in the Swell Division or the Flute Celeste II (8') in the Great division will both create beautiful celeste sounds.

ARTISTIC REGISTRATION

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, and 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 needs to provide a foundation for the sound without covering it.

Most 8' reed stops make interesting solo voices. The addition of a 4' flute or a flute mutation (e.g., Nasat or Terz) to a reed such as the Trompette colors the sound further and increases its volume slightly. Adding an 8' flute to a reed will add 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', Koppelflöte 4', Nasat 2-2/3', Blockflöte 2', and Terz 1-3/5'. 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, 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 accompanimental 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 greater 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 if the solo and accompaniment are under separate expression.

SUGGESTED SOLO REGISTRATIONS

CHIMES SOLO

Swell: Viola Celeste II (8')

Great: Chimes

Pedal: Lieblichgedackt 16', Swell to Pedal

Play solo on Great.

SWELL SOLO COMBINATION

Swell: Gedackt 8', Koppelflöte 4', Nasat 2-2/3', Blockflöte 2', Terz 1-3/5' (Tremulant optional)
Great: Rohrflöte 8'; alternatively, Flute Celeste II (8')

Pedal: Lieblichgedackt 16', Gedacktflöte 8'

Play solo on Swell.

FLUTE SOLO

Swell:Gedackt 8'Great:Flute Celeste II (8')Pedal:Lieblichgedackt 16'

Play solo on Swell.

TRUMPET SOLO

Swell: Trompette 8'

Great: Diapason 8', Octave 4', Superoctave 2', Mixture IV, Classic Voicing Gt-Pd Padel: Diapason 16', Octave 8', Choralbass 4', Mixture IV

Pedal: Diapason 16', Octave 8', Choralbass 4', Mixture IV

Play solo on Swell.

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. Following 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 tonal groupings or "choruses":

The principal chorus is the most fully developed with representation in various divisions of the organ and at every pitch from 16' (Diapason) 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. An Hautbois, 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 stoplist in the preceding section. The Swell reed chorus of Basson 16', Trompette 8', and Clairon 4' 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, 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.

Here are typical ensemble combinations for the Swell and Great manuals:

Great

- 1. Rohrflöte 8', Spitzflöte 4'
- 2. Rohrflöte 8', Spitzflöte 4', Waldflöte 2'
- 3. Diapason 8', Octave 4'
- 4. Diapason 8', Octave 4', Superoctave 2'
- 5. Diapason 8', Octave 4', Superoctave 2', Mixture IV
- 6. Diapason 8', Rohrflöte 8', Octave 4', Spitzflöte 4', Superoctave 2', Waldflöte 2, Mixture IV

Swell

- 1. Gedackt 8', Flute Celeste II (8')
- 2. Gedackt 8', Koppelflöte 4'
- 3. Gedackt 8', Koppelflöte 4', Blockflöte 2'
- 4. Gedackt 8', Spitzprinzipal 4', Koppelflöte 4', Blockflöte 2'
- 5. Gedackt 8', Spitzprinzipal 4', Koppelflöte 4', Blockflöte 2', Fourniture IV
- 6. Gedackt 8', Spitzprinzipal 4', Koppelflöte 4', Blockflöte 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, the #2 and #4 registrations suggested above for use on the Great 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 Allen Digital Computer 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.

TRANSPOSER

The vast capability of the computer makes 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 ControllerTM drawer. Neutral (no transposition) position for the knob is marked "N." To shift the music to a higher key, move the knob counter-clockwise one or more half-steps. The key can be raised a maximum of five half-steps, in half-step increments. To shift to a lower key, move the Transposer knob clockwise from "N." 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 "N" POSITION.

WHY TRANSPOSE?

Because the range of a given song will not always suit the vocal range of a particular singer. By adjusting the key upward or downward, whichever is appropriate, the piece can be sung more comfortably and effectively.

2. 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.

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, playing a short modulation at the end of the stanza that leads into the key one-half step above the key in which the hymn is written, then turning the Transposer up a half-step for the next stanza. In this way, the organist can play the next stanza in its original key, and it will sound one-half step higher. If the hymn is already in a fairly high key, it may be preferable to play the first few stanzas with the Transposer set *down* one-half or one whole step, then modulate up to the original key for the final stanza. The use of modulation with the aid of the Transposer can create a climactic effect for the final stanza of a hymn.

CAPTURE COMBINATION ACTION

The MDS-30 LDS organ is equipped with Allen's Quad Memory Capture Action, which offers the ultimate in registration control and convenience. Quad memories provide a total of 112 separate combinations. The organist can set combinations on any memory and then lock the memory (except Memory 1) using a three digit code. This prevents unwanted tampering with capture combinations. See section D. of the Console Controller[™] and MIDI Guide on page 20 of this manual for additional information.

THINGS TO REMEMBER

The "R Piston, when activated, will recall the last combination set prior to using any general or divisional piston.

General pistons (all of which are duplicated by toe studs) affect all stops. Swell, Great, and Pedal pistons affect only stops in their division. Interdivisional couplers (Swell to Great, Swell to Pedal, Great to Pedal) operate from the general pistons only, not from divisional pistons.

Pedal pistons are available only on toe studs.

All pistons operate independently from each other.

Tutti I and II are reversible (i.e., pressing once will activate either Tutti; pressing again will deactivate).

The capture action is not fully operable until approximately six seconds after the organ is turned on.

Section V

INSTALLATION, VOICING, AND CARE OF THE ORGAN

INSTALLATION

Wherever your MDS-30 LDS organ may be situated, careful installation is a prerequisite to successful results. Your Allen representative is well qualified to guide you in planning for this.

Factory assistance in planning the installation is also available and may, in fact, be sought by your representative, in order that optimal results may be achieved.

VOICING

The MDS-30 LDS organ enjoys unprecedented accuracy in the scaling and voicing of each note of every stop. This musical breakthrough is an inherent part of the engineering design of the instrument. Final adjustments in scaling and voicing involve controls within the console and are best left to an expert. These adjustments are normally a part of installation and, once done, should not require changes, unless the instrument is moved to a new location.

Bass frequency projection is strongly affected by tone cabinet location. Although none of the tone cabinets should be moved once the installation has been completed, extra care should be exercised to prevent inadvertent movement of the bass tone cabinets.

REVERBERATION

The Digital Reverberation System provides the spatial ambience of a large reverberant auditorium. Although most effective in poor acoustic environments, it even enhances the tones in an ideal acoustic setting.

The Reverb stop is not affected by the capture system.

Adjustment of reverberation can be accomplished by your service technician or sales representative.

BATTERY BACKUP SYSTEM

The memory for the capture system on your MDS 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.

On Allen MDS organs that include a Console ControllerTM, the LCD display will flash a warning message for a few seconds during power-up when the battery requires replacement. The display will read as follows:

WARNING!! Replace Battery

On Allen MDS and Protégé models without a Console Controller[™], the green power light will flash for about ten seconds after the organ is switched on.

Should the battery in your MDS organ require replacement, contact your local Allen authorized service representative.

CARE OF THE ORGAN

Your Allen Digital Computer 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 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, then polish immediately with the dry cloth. Do not use soap or detergent on keys or stop tablets.

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!

CAUTION

Do not plug the instrument into any current source other than 105-128 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 adaptor.

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.

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.

MDS-30 LDS