

MAAS-ROWE

DCB3 *Digital Chronobell*<sup>®</sup> III

and

CD25 *Compact Disc Carillon*

OPERATING MANUAL

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**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 tested and found to comply with the limits for a Class "A" computing device pursuant to Subpart B of Part 15 of the FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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## DCB3 CONTROL PANEL

The **Digital Chronobell III** with **CD25 Compact Disc Carillon** provides **bell ringing** using built in **struck metal miniature bells** and **carillon music** from **compact discs**. The **DCB3 Control Panel** is where the commands are entered by the operator for either Manual or Scheduled operation.

The controls on the **DCB3 Control Panel** are described here along with a basic explanation of their function.

**Display.** Indicates the time and other information related to entering and reviewing.

**Day Buttons/Lights.** For scheduling events and reviewing the schedule.

**Bell Buttons/Lights.** For ringing individual bells and to show which bells are ringing.

**Event Buttons/Lights.** For entering events into the schedule, reviewing the schedule, and starting events. An "event" is a bell-ring or carillon play.

**Mode Buttons/Lights.** For selecting various modes of operation.

<b>REVIEW DAYS</b>	For reviewing the schedule on a particular day.
<b>REVIEW EVENTS</b>	For reviewing times and days when Events are scheduled.
<b>SET TIME</b>	For setting the time and date.
<b>ENTER</b>	For entering events into the schedule.
<b>ALT SCHED</b>	For entering and reviewing Alternate Schedules.
<b>RANGE</b>	For entering the <b>Clock Strikes</b> as a group.
<b>LIB</b>	For defining and assigning Libraries
<b>SP</b>	For "Special" operations
<b>MANUAL</b>	Allows manual starting of events and prevents scheduled events from starting.
<b>AUTO</b>	Allows scheduled events to start.
<b>STOP</b>	Stops any event in progress.

## CD25 COMPACT DISC CARILLON CONTROL PANEL

The **CD25 Compact Disc Carillon** is controlled from the **DCB3 Control Panel**.

The following Indicator Lights are on the CD25 Panel:

<b>POWERED UP</b>	Should always be on, indicating the <i>CD25</i> has power.
<b>LOADING CD</b>	Comes on at the beginning of a <i>CD Play</i> and remains on until the <i>CD Play</i> is over.
<b>PLAYING CD</b>	Comes on at the beginning of the <i>CD Play</i> and remains on until the <i>CD Play</i> is over
<b>DOOR OPEN</b>	Lights if the door that encloses the CD compartment is not closed. The CD's will not play if it is open.
<b>ERROR</b>	Should never light.

Before opening the door, be sure all lights on the *CD25 Panel* are out except for the **POWERED UP** light. If the **LOADING CD** or **PLAYING CD** Lights are on *do not* attempt to open the door. The door is locked while a CD is being played and will not open easily and should not be forced. When all lights are out except the **POWERED UP** light, the door can be opened easily.



## TO SET DATE AND TIME

Press **TIME**

Select: \*

**YEAR**

**MONTH**

**DAY OF MONTH**

**HOUR** (choose AM or PM)

**MINUTES**

The Time is now set and the system will leave the time setting mode. The **DAY** light should be illuminated for the correct day of the week.

### NOTES:

1. Set to exact second advance to the next minute, then wait to press **SET** until the minute changes.
2. This system will change the time automatically on the dates required for changing from Daylight Saving Time to Standard Time and vice versa. If you are in an area that does not change for Daylight Saving time, the installer can turn off this feature by opening SERVICE PANEL on back of the **DCB3 CONTROLLER** and setting **DIP SWITCH NUMBER 4** to OFF.

\*In General, “**SELECT**” by using Back/Fwd Buttons, then Pressing **SET**.

## TO START BELL-RINGS MANUALLY

The *Angelus* has a fixed duration and can be started directly. With the *Peal* and *Swinging Bells*, you also select how long they will ring. With the *Toll*, you also select the number of tolls.

### ANGELUS:

Press **MANUAL**, then **ANGELUS** and it will start ringing at once.

### PEAL OR SWINGING BELLS:

Press **MANUAL**, then **PEAL** or one of the **SWINGING BELL** buttons.

Use **BACK/FWD**, and **SET** to Select how long they will ring:

Minutes of duration (d= *duration*)

Seconds of duration

As soon as you finish selecting the duration, the bells start ringing.

### TOLL:

Press **MANUAL**, then **TOLL**

Use **BACK/FWD** and **SET** to select *Number of Tolls* indicated by the display.  
The bell will toll every ten seconds and stop after the indicated number of tolls.

Press **STOP**, if you want to stop the tolling sooner.

## TO SCHEDULE AUTOMATIC BELL-RINGS OR CLOCK STRIKES

### ANGELUS OR CLOCK STRIKES:

Press **ENTER**, then **ANGELUS** or **CLOCK STRIKE**.

Use **BACK/FWD**, **SET** buttons, or press **DAYS**, then **SET** to select:

**DAYS**  
**HOUR** (with correct AM/PM)  
**MINUTE**

### PEAL OR SWINGING BELLS:

Press **ENTER**, then **PEAL** or one of the **SWINGING BELLS**.

Use **BACK/FWD**, **SET** buttons, or press **DAYS**, then **SET** to select:

**MINUTES** of duration  
**SECONDS** of duration  
**DAYS**  
**HOUR** (with correct AM/PM)  
**MINUTES**

### TOLL:

Press **ENTER**, then **TOLL**.

Use **BACK/FWD**, **SET** buttons, or press **DAYS**, then **SET** to select:

Number of Tolls desired.  
**DAYS**  
**HOUR** (with correct AM/PM)  
**MINUTE**

### Notes:

1. See "To Schedule a Range of Clock Strikes" for an alternate method of entering clock strikes.

2. Exit by pressing **AUTO** or **STOP**.

## **TO SCHEDULE A RANGE OF AUTOMATIC CLOCK STRIKES**

Press **RANGE** one or more times to select **ALL**, **Hr**, or **Hr 30**.  
(Depending on whether you want all Quarters, Hours only or Hours and Half-hours).

Press **SET**.

Use **BACK/FWD**, then **SET** to select:

**DAYS**

**FROM** (starting time). Be sure AM/PM is correct.

**TO** (ending time). Be sure AM/PM is correct.

## **TO RING INDIVIDUAL CHRONOBELL BELLS INDIVIDUALLY**

Press **MANUAL**.

Wait appx. 15 seconds for warm up of amplifier.

Press **BELLS** as desired.

Press **AUTO** when finished.

## **TO SELECT THE BELLS USED FOR THE PEAL OR SWINGING BELLS**

Press **SP**

Press **PEAL**, or and of the **SWINGING BELLS**.

Press **BELL BUTTONS** to choose bells.

Press **AUTO** or **STOP** to exit.

## **TO CREATE AND PLAYBACK OR SCHEDULE SEQUENCES OF BELLS**

### **TO CREATE SEQUENCES:**

Press **SP**, then **FUN**.

Select **F1 ... F9**.

Play desired sequence on bell buttons

Press **STOP** to end sequence.

### **TO PLAY BACK SEQUENCES:**

Press **MANUAL** then **FUN**.

Select **F1 ... F9**.

### **TO SCHEDULE SEQUENCES TO PLAY AUTOMATICALLY:**

Press **ENTER** then **FUN**.

Select:

**F1 ... F9**.

**DAYS**

**HOUR** (with correct AM/PM)

**MINUTE**

Notes:

1. In general, to select, use **BACK/FWD** and **SET**.
2. To select Days, press **DAY** buttons, then **SET**.
3. Press **STOP** to immediately end anything in progress.

## TO LOAD COMPACT DISCS

Open the Door on the *CD25 Panel*.

Insert a *Compact Disc* into any of the slots, being sure its *Label* is to your right.

Close the Door again (if not properly closed, the **DOOR OPEN** Light will be on).

The **POWERED UP** Light on the CD25 panel is normally on at all times and you can open the door while it is on. However, do not attempt to open the door if any of the other lights on the CD25 panel are on. The door is locked while a CD is playing and will not open.

Whenever a CD is loaded into a slot, place the *Music List* for it into the corresponding *Tabbed Index* in the *Music Book* to keep track of where the songs are.

If you use both Stereo and Monaural CD's in your system, check the configuration of the CD slot to make sure it is properly set to Mono or Stereo, according to the type of CD being installed.



## TO START THE CD PLAYER MANUALLY

Press **MANUAL**.

The CD Player has three modes of play.

1. Press the CD button *once* for *Specific Song Mode* (to play a particular song).
2. Press the CD button a second time for *Random Mode* (the system selects the songs *randomly* from a Library such as Christmas songs or General songs)
3. Press the CD button a third time for *Next Mode* (the *next songs up* play in the order that they appear in the Library)

In order to use *Random* or *Next Mode*, you must have first set up the *Libraries* you want the songs to play from. *Setting up Libraries* is covered elsewhere in this Manual.

### TO PLAY A SPECIFIC SONG:

Press CD once. The display will show two numbers in the form **#.#**  
For example 2.14 means CD2, song 14.

Use **BACK/FWD, SET** change the first number to the number of the CD you want to play. The second number will then blink.

Use **BACK/FWD, SET** to select the song number you want to play. In a few moments the song will start playing.

### TO PLAY SONGS SELECTED RANDOMLY OR SEQUENTIALLY

Press CD twice for *Random* or three times for *Next* mode. The display will show "**r-#**" (letter r followed by a number) or "**n-#**" (letter n followed by a number).

Use **BACK/FWD, SET** to choose how many songs to play.

After you select how many songs to play, "**Lb ##**" will be displayed (Lb followed by a blinking number), asking for the *Library* the songs will play from.

Use **BACK/FWD, SET** to select the *Library* desired. You must have set up the *Libraries* previously, as explained elsewhere in this Manual. As soon as the *Library* is selected, the song(s) will start playing.

Pressing the **CD** button while a song is playing displays what mode it is playing

in and the song that is being played.

## TO SCHEDULE CD PLAYER TO PLAY AUTOMATICALLY

Press **ENTER**.

Press **CD** one or more times to select:

**d1: 1** (specific song play)

or

**r-1** (random play)

or

**n-1** (sequential play)

To play a **specific song**, select:

**disc#, song#**

For **random** or **sequential** play:

Select how many songs to play.

Select **Lb 1, Lb 2, ... Lb 20** etc. to choose a specific **Library** the songs will play from, or select **Lb** without a number to choose the *Assignable Library*. Use the *Assignable Library* if the number of songs played and their starting times will be staying the same throughout the year and only the type of music (library) will be changing.

Select:

**DAYS.**

**HOUR** (with correct AM/PM)

**MINUTE**

Notes:

1. In general, "select", by using **BACK/FWD**, then **SET**.
2. See "Using the Assignable Library " for an explanation of this feature.

## TO CREATE OR EDIT A CD LIBRARY

This allows you to enter songs into a *Library* one at a time or edit what songs are in a *Library*. Read on to see how to use **SP-RANGE** to enter more than one song at a time into a *Library*.

Press **SP**, then the **LIB** button.

Select the **Lb** (Library) desired (**Lb 1** through **Lb 20**).

Press **ENTER**. If the *Library* already contains songs, a disc number and song number will be displayed. If the *Library* is empty, just dashes will be displayed. You can add songs whether it is empty or not, up to a total of 99 songs per *Library*. The songs can be from different CD's, if desired.

Use **BACK/FWD** and **SET** to select the *Disc Number* (the first number displayed)

Use **BACK/FWD** and **SET** to select the *Song Number* (the second number displayed)

Repeat previous step to load each additional song into the *Library*.

Use **BACK/FWD** after entries are completed to review what songs are in the *Library*. Press **SET** to see which *Library* is being reviewed and the position number of the song in the Library.

## TO PUT A BLOCK OF SONGS INTO A LIBRARY

This can be used to enter a number of consecutive songs from a CD into a *Library* as a block..

Press **SP**, then **RANGE**.

Select **Lb 1**, etc. for the **Library** desired (up to **Lb 20**).

Select the starting **disc#**, **song#** of the block.

Select the ending **song#** of the block (**disc#** must be the same).

While this procedure requires that all the songs be from the same CD, you can start over and add songs from another CD, if desired, until the total number of songs in the Library is 99.

Notes:

1. There are 20 available Libraries, each of which can hold 99 songs, any of which can be from any of the CD's installed.

### **TO USE THE ASSIGNABLE LIBRARY Lb0**

When entering songs into the schedule in *Random* or *Next* mode, select **Lb 0** instead of a particular library such as **Lb 1**, **Lb 2**, etc. The *Library* the songs will play from at those times and days is controlled by the **LIB** button on the front panel.

After schedules are entered, press **AUTO**, then the **LIB** button on the front panel and use **BACK/FWD** and **SET** to select **Lb 1**, **Lb 2**, etc. to assign all the scheduled plays that use "**Lb 0**" to that one.

This is a simple and quick way to change the type of music that will play without going to the trouble of re-entering each play time. If the number or songs or the play times need to be changed, this method cannot be used and the play times have to be entered into the schedule separately. In that case, the use of *Alternate Schedules* should be considered as explained elsewhere in this Manual.

## TO COPY OR DELETE A *CD LIBRARY*

### TO COPY FROM ONE *LIBRARY* TO ANOTHER:

Press **SP**, then **LIB**.

Use **BACK/FWD** and **SET** to select *Library* to copy to. If it is available, the display will show "-- --" to confirm it is empty. If not empty, press **STOP** as you cannot copy a *Library* into one that already contains songs.

Press **AUX 1** once and "**COPY**" is displayed. Press **SET**.

Use **BACK/FWD** and **SET** to select the *Library* you want to copy.

"-- --" will appear indicating the copy is completed. Press **STOP** to end the procedure. (If the *Library* was not empty, "**Err**" will appear instead).

### DELETE ALL THE SONGS FROM A *LIBRARY*:

Press **SP**, then **LIB**.

Use **BACK/FWD** and **SET** to select the *Library* you want to delete the songs from.

Press **AUX 1** twice until **dEL** is displayed, then press **SET**.

"**dEL?**" is displayed and you must press **SET** again within a few seconds if you really want to delete the *Library*.

### TO DELETE ALL REFERENCES TO A *CD* FROM ALL *LIBRARIES* AND *SCHEDULES*

Press **SP**, then **CD**.

Select the **CD** desired.

Press **SET**.

## PLAYING STEREO CD'S IN THE SYSTEM

Most Maas-Rowe CD's are specially recorded in "Monaural" mode which provides twice as much playing time as a "Stereo" CD. However, commonly available commercial CD's and Maas-Rowe Custom Recorded CD's are "Stereo".

The system can play either type of CD, but must be re-configured in order to play stereo CD's. Reconfiguring tells the system which CD's are stereo, according to the position of the CD in the machine (25 available positions). It is important not to put a stereo CD in a position that is configured for monaural and vice versa.

Systems are shipped initially with all positions configured for Monaural.

To change the configuration for any CD:

Press **SP**, then **AUX 2**.

The display will have a *CD position number 1 to 25* followed by a 1 or 2.

Use **BACK/FWD** then **SET** to choose the CD position.

Use **BACK/FWD**, then **SET** to choose *Mono* or *Stereo* as follows:

**1 = Mono**

**2 = Stereo**

You will remain in this mode so you can continue to select other CD positions and change or review their modes. Press **STOP** to end the procedure.

These changes apply to the *CD Position* and not to the CD itself as the machine has no way of knowing what CD is in that particular position. Because of this, it is important to keep CD's in the same positions and not move them without careful consideration.

If a *Monaural CD* is placed in a position that is configured for *Stereo*, two songs will play at the same time.

If a *Stereo CD* is placed in a position that is configured for *Monaural*, the song numbers played will not correspond with the tracks on the CD, but only one song will be heard at once since the left and right tracks will just be mixed together.

## **IF THE CD CAN BE PLAYED THROUGH A SEPARATE INSIDE AMPLIFIER**

Most systems are provided with just the *Tower Amplifier*. However, an additional *Inside Amplifier* can be installed (an extra cost option). If it is, each CD can be set up so that scheduled plays will be heard through the *Tower Amplifier*, *Inside Amplifier* or both at the same time.

To change the *Amplifier Selection* configuration for any CD position:

Press **SP**, then **AUX 1**.

The display will show a *CD position number (1 to 25)* followed by:

“ou” Indicating the Tower (outside) Amplifier

“in” Indicating the Inside Amplifier

“bo” Indicating “both”

Use **BACK/FWD** then **SET** to choose the *CD position* (slot the CD is in).

Use **BACK/FWD**, then **SET** to change the display to the amplifier mode desired for that *CD position*.

It will remain in this mode so you can continue to select other *CD positions* and change or review their modes. Press **STOP** to exit this mode.

## TO CREATE *EVENT LISTS* OF SONGS AND/OR BELL RINGS

This feature allows you to set up a series of things you want to happen in the exact order you want them in. These can include CD Plays and/or Bell-rings. Any of the CD modes can be used from within an Event List. For example, you might set one up with a particular hymn (specific song mode) as the first item, a Peal as the second item, and two randomly selected hymns from some Library as the third item. You can have up to thirty-five Event Lists and as many as ten items in any of them.

Press **SP**, then **LIST**.

Use **BACK/FWD**, **SET** to select *Event List* of thirty-five possible ones. (**EL-1** to **EL-35**).

After you have selected the *Event List* you want, the *Display* indicates **LIST#**, **ITEM#**. For example, "1.-" means *Event List 1 is empty*, while "1.3" means *Event List 1, Item 3*. If the *Event List* already has events in it, use **BACK/FWD** to scroll through it. Additional items can be added to the list. Their position will be immediately after the item displaying when **ENTER** is pressed. As you scroll through the items, the lights in the lower right hand row of the DCB3 Panel will indicate what that Event is. For example, if the *Peal* light is on when "1.3" is displayed it means *Item 3 in Event List 1 is the Peal*.

To Add Events, press **ENTER**, then press the button corresponding to what is to be added to the *Event List*.

1. **Angelus** requires no further steps.
2. **Peal** or **Swinging Bells** require the following additional steps.

Select **Minutes** and **Seconds** of duration.

3. **Toll** requires the following additional steps:

Select **Number of Tolls**.

4. **CD Player** requires the following additional steps:

Select one of the following:

**##.##** (select disc #, song # to play)

**r-1** (random play: select how many songs to play, then select **Library**)

**n-1** (sequential play: select how many songs to play, then select **Library**).



## TO START AN *EVENT LIST* MANUALLY

Press **MANUAL**, then **LIST**.

Use **BACK/FWD**, **SET** to select **EL-1**, **EL-2**, etc., as desired.

Use **BACK/FWD**, **SET** to select the item you want to start with. You are given this choice in case you want to skip one or more items for some reason, or have stopped somewhere and want to resume from that point later on.

The **LIST** light blinks. This is to give you the opportunity to wait until an exact moment before releasing the *Event List*. The *Event List* will not start until you press the **LIST** light one more time (see next step).

Press **LIST** again when you want the *Event List* to start playing.

## TO PAUSE THE PLAYING OF THE *EVENT LIST*

While an item from the *Event List* is playing press the **LIST** button and the light above it will blink. This indicates that when the item currently playing ends, the next event in the **EVENT LIST** will not start until **LIST** is pressed again.

Once the next Event starts, the **LIST** button can be pressed again if a pause is desired at the end of the Event in progress. Otherwise, the remaining events in the list will play without pausing further.

To summarize, if the **LIST** light is blinking, you must press the **LIST** button again to start the next item in the list. If the **LIST** light is not blinking, all the items in the *Event List* will play with just a short pause between them.

## TO SCHEDULE *EVENT LISTS* FOR AUTOMATIC PLAY

Press **ENTER**, and **LIST**.

Use **BACK/FWD**, **SET** to select the *Event List* desired (EL 1, EL 2, etc.).

Press the **DAYS** you want to schedule it for, then press **SET**.

Use **BACK/FWD**, **SET** to select *Hour* (with correct am/pm)

Use **BACK/FWD**, **SET** to select *Minute*

The *Event List* will have been entered into the schedule at the selected time and day(s).

If the *Event List* has not been created, it can still be scheduled, but will not play.

## **TO REVIEW OR DELETE EVENTS FROM THE REGULAR SCHEDULE**

### **TO REVIEW EVENTS:**

Press **REVIEW EVENTS**, then **EVENT** desired.

Press the **EVENT** button again, or use **BACK/FWD** to move through the schedule for the Event.

Press an applicable **DAY** button to display more information about the Event such as the **duration** or **mode of play**.

### **TO REVIEW DAYS:**

Press **REVIEW DAYS**, then the **DAY** desired.

Press the **DAY** button again, or use **BACK/FWD** to move through that Day's schedule

Press an applicable **EVENT** button to display more information about it such as its *duration* or *mode of play*.

### **TO DELETE:**

Use **REVIEW DAYS** or **REVIEW EVENTS** to display the *Event to be deleted*.

Press **DELETE**. The display immediately changes to the next time an event is scheduled. Do not press **DELETE** again unless you want to delete additional events.

Press **AUTO** to return to leave either Review mode.

### Notes:

1. To review **Alternate Schedules** see separate section.
2. Using **Review Days** is more selective than **Review Events** when deleting. If **DELETE** is pressed while reviewing Events, that event will be deleted for all days it was scheduled for at that time.

## COMPLETE SYSTEM CLEAR

To perform a **SYSTEM CLEAR** press the following sequence of buttons:

**MANUAL**  
**SUN**  
**SAT**  
**MON**  
**FRI**

The word "**Clr?**" will appear in the display. Press **SET** immediately.

The display will change to **8:00 AM**.

The day will change to **SUN**.

This erases all scheduled Events, Libraries, Event Lists, and Alternate Schedules.

## TO CREATE, CHANGE OR DELETE *ALTERNATE SCHEDULES*

*Alternate Schedules* can be created for one day, such as a *Holiday*, or for multiple days, such as an entire *Season*. Twenty-three *Alternate Schedules* are possible.

### TO CREATE OR CHANGE AN *ALTERNATE SCHEDULE*:

Press **SP** and **ALT SCHED**.

Use **BACK/FWD**, **SET** to scroll and select the **Start Dates** of any existing *Alternate Schedules*, e.g. “**3.6**” = March 6<sup>th</sup>, or to select “**Add**” to create a new one.

Use **BACK/FWD**, **SET** to select:

**Month (FROM)** = Month of the Year the *Alternate Schedule* starts with.

**Day (FROM)** = Day of the Month the *Alternate Schedule* starts with.

**Month (TO)** = Month of the Year the *Alternate Schedule* ends with.

**Day (TO)** = Day of the Month the *Alternate Schedule* ends with.

**Year**, or **All** for all years.

### TO DELETE AN *ALTERNATE SCHEDULE*:

Press **SP**, then **ALT SCHED**.

Use **BACK/FWD** to display start date of *Alternate Schedule*.

Press **DELETE**

When **dEL?** appears, Press **SET** immediately.

If **SET** is not pressed soon enough after **DELETE** is pressed, **FAIL** is displayed to indicate the *Alternate Schedule* was not deleted. In that case, press **STOP** and start over.

## TO ENTER OR REVIEW WHAT IS IN AN *ALTERNATE SCHEDULE*

When an *Alternate Schedule* is created, all the *Events* from the regular schedule are copied into it. For this reason, it is best not to set up any *Alternate Schedules* until the regular schedule used for most of the year is entered. Most *Alternate Schedules* are mostly the same as the regular schedule so copying it will reduce the number of entries required.

### TO ENTER ADDITIONAL EVENTS:

Press **ALT SCHED**.

Select *Alternate Schedule start Date*.

Press **ENTER**

Proceed to enter events as for the regular schedule.

### TO REVIEW EVENTS OR DAYS:

Press **ALT SCHED**.

Select *Alternate Schedule start Date*.

Press **REVIEW EVENTS** or **REVIEW DAYS** and proceed as for the *regular schedule*.

### Notes:

1. **DEL** can be used *within an Alternate Shedule* to take Events out one-by-one by Event or Day. To delete an *entire Alternate Schedule*, see previous page.
2. Since the *Day of the Week* for a particular *Date* changes from *Year to Year*, enter all the Days of the Week that this Event would be acceptable on. This applies even if you are just entering an Event in a one-day, one-year *Alternate Schedule*.
3. During Review, **ALT SCHED** can be pressed again to see what day(s) of the week are applicable to the *Alternate Schedule* next time it will come around. These Days will typically be different every year.

## SCHEDULING RULES

1. Scheduling something replaces anything previously scheduled at the same time and day.
2. If something is playing, it supercedes anything scheduled to start.
3. An event can be scheduled to start as close as one minute after any bell-ring, except that two minutes are required after the Angelus.
4. An event must end prior to one minute before any event scheduled after it starts or the following event will not start, except that two minutes are required before the Hour Strike.

## WARNING MESSAGES

"**Err**" is displayed if an attempt is made to schedule a time strike or quarterly melody at a time other than the correct quarter.

"**Full**" will be displayed when the number of scheduled events reaches the capacity of the system. To recover, press **MANUAL** or **AUTO**. The system is capable of scheduling all the possible Clock Strikes and up to 900 additional events.

## DCB3ERROR CODES

<b>EC 1</b>	This Alt-Sched would overlap another one
<b>EC 2</b>	An Invalid Clock Strike Time
<b>EC 10</b>	Library does not exist
<b>EC18</b>	CD25 Door Open
<b>EC20</b>	CD requested is not found
<b>EC21</b>	Song requested on CD is not found
<b>EC 87 - 99</b>	System errors

## **BATTERY BACKUP**

The system includes a *battery backup* to maintain the time during a power outage. During a power outage, no scheduled events will ring, nor can they be operated manually. When the power is restored, the system will resume ringing on schedule.

## **REPLACING THE BATTERY**

A small plate marked **SERVICE PANEL** covers the battery compartment on the back of the **DIGITAL CHRONOBELL III CONTROLLER**. A single **LITHIUM BATTERY** (EVEREADY CR 2016 or equal) is required. This maintains the time in the event of a power outage.

This battery should be replaced every five years.

System power must be kept on while changing the battery or the time will have to be reset.

Remove the battery from the holder and replace it with an identical type, being sure to orient the replacement the same way as the old one (+ toward you as you look at the holder).



## PANEL LIGHT TEST

With system in **AUTO** press the **DELETE** button. This will briefly test all panel lights and the display. After the light test, following information will be displayed sequentially:

1. The **Version Number** of the software, e.g. **13.1**.
2. The number of unused events. This is initially **1,000** and decreases as events are added to the schedule. Clock Strikes are not counted as “events”, whether in the regular or alternate schedules.
3. *Start and End Date* of the schedule currently in effect. This is **1.1** to **12.31** (Jan. 1 to Dec. 31) for the regular schedule, or a different starting and ending date if an **Alternate Schedule** is currently in effect.

## OPTIONAL MODEL RA-3 REMOTE CONTROL STATION

Turn **KEYSWITCH** on to activate and prevent clock from starting anything automatically.

In general, use **BACK/FWD** and **SET** when asked to select something.

### TO START SWINGING BELLS:

Press **SWING** and use **BACK/FWD**, **SET** to select:

Minutes of duration  
Seconds of duration

**ALTERNATE:** Press **SWING** twice to start it with the duration displayed.

### TO START PEAL:

Press **PEAL** and use **BACK/FWD**, **SET** to select:

Minutes of duration  
Seconds of duration

**ALTERNATE:** Press **PEAL** twice to start it with the duration displayed.

### TO START TOLL:

Press **TOLL** and use **BACK/FWD**, **SET** to select the number of Tolls.

**ALTERNATE:** Press **TOLL** twice ring number of tolls displayed.

### TO START USER DEFINED "SEQUENCE":

Press **FUN**

### TO RING A SINGLE BELL (FOR SANCTUS BELL, ETC.)

Press **BELL** button.

## OPTIONAL MODEL RA-3 REMOTE CONTROL STATION

### TO ASSIGN "SWING" BUTTON TO ANY OF THE AVAILABLE BELLS:

Press and hold in **SWING** until **bEL2** or similar is displayed.

Use **BACK/FWD, SET** to select **bEL1 ... bEL7**

### TO ASSIGN "FUN" TO ANY SEQUENCE:

Press and hold **FUN** until **F 1** or similar is displayed.

Use **BACK/FWD, SET** to select **F 1 ... F 9**

### TO ASSIGN "BELL" BUTTON TO ANY BELL:

Press and hold **BELL** button until **bEL2** or similar is displayed.

Use **BACK/FWD, SET** to select **bEL1 ... bEL7**

## OPTIONAL MODEL RA-3 REMOTE CONTROL STATION

### TO START THE CD PLAYER:

Press **CD** as many times as required to display one of the following modes:

**1. 1** (specific song mode = CD#. Song#)

**r-1** (random play)

**n-1** (sequential play)

For a *Specific Song*, use **BACK/FWD, SET** to select **disc#**, and again to select **song#**.

For *Random or Next mode*, use **BACK/FWD, SET** to select:

*How many songs to play (r-1, r-2, etc. or n-1, n-2, etc.), then again to select the Library songs will play from (Lb1, Lb2, etc.).*

### TO START AN EVENT LIST:

Press **LIST**

Use **BACK/FWD, SET** to select the **EVENT LIST** (EL 1, EL 2 , etc.)

Use **BACK/FWD, SET** to select the *position in the list to start from*.

The **LIST** light will blink. Press **LIST** again when you want the *Event List* to start.

While an Event is in progress, **LIST** can be pressed to toggle between **PAUSE** and **NO PAUSE** mode. Blinking **LIST** light means Event List will pause at end of Event in progress. Otherwise, all the events in the list will play with just a pause between them.

### Notes:

The **KEYSWITCH** of the *RA3 Remote Control Station* can be turned Off any time after the event has started. This does not stop a bell-ring that is in progress.

## OPTIONAL MODEL RA-2 WIRELESS REMOTE CONTROL

The *Model RA-2 Wireless Remote Control* is available as an extra cost option and may be part of the system. The **RA-2** can only be used to start an *Event List* that has been set up previously. The set up can be made from either the *DCB3 Control Panel* or a wired *RA-3 Remote Control Station*.

When started from the *RA2 Wireless Remote Control*, the first *Event* in the *Event List* will start and continue playing until it is finished. Another command must then be sent from the *RA2 Wireless Remote Control* in order to start the next *Event*, etc.

Commands sent while an *Event is in progress* are ignored, so wait for each *Event* to finish before sending the next command.

## **OPTIONAL MAAS-ROWE COMPUTER CONTROLLED TOWER CLOCK DRIVES**

If one or more of these *Tower Clock Drives* are connected to the Digital Chronobell III, they will automatically be kept at the same time.

If a power outage occurs, the *Tower Clocks* will stop, but they will reset automatically when the power is restored.

When Daylight Saving time changes occur, the DCB3 will change automatically to the correct time and reset the *Tower Clocks*.

## 100 WATT TOWER AMPLIFICATION SYSTEM

### AMPLIFIER CONTROLS

Refer to Illustration 3, included with this manual.

There are 5 controls on the **AMPLIFIER PANEL** which are used as follows:

**CARILLON** controls the volume of a keyboard carillon. If there is no keyboard carillon included in the system, this control should be turned **OFF**.

**CLOCK** controls the volume of all the bell rings such as the Clock Strike, Swinging Bells, etc. These are independent from the Keyboard Carillon and any tape or compact disc players.

**TAPE/CD** is used for the **Compact Disc Player**.

**BASS** and **TREBLE** control the tone quality of the entire system through the **TOWER** amplifier.

The **POWER** switch is left in the **NORMAL** position. The **POWER** switch only lights when the amplifier is turned on by the clock system or from the carillon controls at the keyboard, if a keyboard carillon is installed. It normally will remain **ON** for 20 seconds after the last bell has played in order to allow sufficient time for the tone of the last bell to diminish completely.

Whenever the **DCB3 Chronobell** system is in **MANUAL** mode, the **POWER** switch will light to indicate the amplifier is **ON**. The **POWER SWITCH** will stay illuminated for 40 seconds after **MANUAL** is turned **OFF**.

## **100 WATT TOWER AMPLIFICATION SYSTEM**

### **SPEAKER CONTROLS**

The **MONITOR** control allows you to hear what is playing through the Tower Amplifier with the Monitor Speaker in the Chronobell cabinet. This can be turned **OFF** by turning it counter-clockwise all the way.

The **TOWER SPEAKERS** switch can be used to turn the tower speakers **ON** or **OFF**. The **INSIDE** control only operates if a separate inside speaker has been installed. This allows the sound of the Chronobell rings (Clock strike, Swinging Bells, etc.), to be heard inside.

### **MICROPHONE JACK**

The **MIC** jack can be used to plug a high impedance microphone into the system (for paging, etc.). The **CARILLON** control will control the volume while paging. You should turn the volume down all the way and then bring it back up while trying the microphone to determine the proper volume setting of the **CARILLON** control when used with a microphone. (If a Keyboard Carillon is installed, return the volume to its usual setting before using the keyboard carillon again).

Use **BLINKING MANUAL** to keep the amplifier on while paging as well as to prevent any bell-rings from occurring.



## OPTIONAL 250 WATT TOWER AMPLIFICATION SYSTEM

### 250 WATT TOWER AMPLIFIER CONTROLS

Set the **VOLUME** control to 8.

Set the **POWER** switch to **ON**. The system will turn on this amplifier as required for automatic and manual operation.

### MIXER CONTROLS (Illustration 6)

Set the **CARILLON** and **HARP** controls to "0", unless the system includes a **Maas-Rowe** Keyboard Carillon in which case additional instructions regarding these controls are normally provided.

The **CLOCK** control is for the WESTMINSTER CHIMES, HOUR STRIKES, SWINGING BELLS, PEAL, TOLL, ANGELUS and DE PROFUNDUS and any other bell-ringing functions that are not on the Compact Discs. Set this control to "4" initially, and later on adjust as required to bring the volume to the desired level.

The "**TAPE**" or "**TAPE/CD**" control is for the **Compact Disc Carillon**. Set this control to "4" initially, and later on adjust as required to bring the volume to the desired level.

The **MASTER** control allows raising or lowering the volume of the entire system at once. This essentially duplicates the function of the **VOLUME** control on the **250 Watt Power Amplifier**.

The **MONITOR** control determines the volume of the sound heard from the small **MONITOR SPEAKER** built into the CONTROL PANEL. Set this to "5" initially, then adjust as desired while listening to the sound.

The **TOWER SPEAKERS** switch can be left off during the initial balancing of the volumes, and turned on when it is ready to sound from the tower. The first time the **TOWER SPEAKERS** are turned on, someone should be listening outside to be sure they are not too loud. Keep all the controls set to fairly low numbers, then adjust gradually until the tower sound is the desired level.

The **INSIDE** control on this panel is designed to control an *Auxiliary Inside Speaker* which can be connected to the system to project whatever is being heard from the tower inside. This is an extra cost option that may not be installed.

## QUICK REFERENCE GUIDE

### Creating a CD Library:

Press **SP**. Press **RANGE**. The display will read **Lib I** or the number of the last library worked with. Press **FWD** or **BACK** until you get the library number that you want to work with. Press **SET**. Next the display will display a disk number and song number. The disk number will be flashing. Press **FWD** or **BACK** until you get the desired disk number. Press **SET**. Next the song number is flashing **1**. Press **SET**. This is the beginning song. The song number will be flashing again. This will be the ending song. Press **FWD** until you get the last song number on the disk. Press **SET**.

*It is easiest to put a range of songs into a library, then delete the undesired songs. Creating libraries is fairly simple if you follow these easy steps. Assign general songs to Library 1, Advent songs to Library 2, Christmas songs to Library three, Lenten songs to Library 4, Easter songs to Library 5, Memorial Day, 4th of July, and Labor day songs to Library 6.*

**DO NOT MOVE DISKS BETWEEN TRAYS !!! NOT ALL DISKS CONTAIN THE SAME NUMBER OF SONGS. MOVING DISKS BETWEEN TRAYS CAN CAUSE ERRORS IN THE SYSTEMS NORMAL OPERATION AND MAY REQUIRE A SERVICE CALL !!!**

### Deleting a Song from a Library:

Press **SP**. Press **Lib**. Press **FWD** or **BACK** until you get the desired library. Press **SET**. View the songs in the library by pressing the **FWD** button. When you get to a song number that you want to delete, Press **DELETE**. The next song number will appear in the display. Continue until done with the library. Press **STOP** or **AUTO**. Repeat for other libraries.

### Scheduling Random Songs From Assignable Libraries:

Press **ENTER**. Press **CD** twice, the display will read **r 1**. Press **FWD** until you get the desired number of random songs you want to play at one time. Press **SET**. Next the display will read **Lib I**. Press back until the display reads **Lib with no number**. Press **SET**. Next the DAYS lights will be blinking. Press each day button until you have selected all the days you want the event to play on. Press **SET**. Next the display reads **7:00**. The **7** will be blinking. Press **FWD** or **BACK** until you get the hour that you want the event to play. Press **SET**. Next the **00** will blink. Press **FWD** or **BACK** until you get the minute that you want the event to play. Press **SET**. If you have no more CD events to schedule, press **STOP** or **AUTO**.

*The above will play CDs from library 1 as the system default. However, there must be songs entered into that library. If not, follow the directors: Creating a CD Library. Now that the CDs are programed to play, libraries can reassigned at will with little effort.*

### **Assigning or Reassigning a Library:**

Press *Lib*. Press *FWD* or *BACK* until you get the desired library. Press *SET*.

### **Creating An Alternate Schedule:**

*There are a few rules attached to alternate schedules. First, schedules cannot overlap. Second, everything that exists in your regular schedule will be copied automatically into the alternate schedule. You will need to go through the schedule and delete any unwanted events for that period (i.e. you may want to have special mass on a particular holiday but not the normal mass schedule). Third, if you want a single day event (i.e. Christmas day) the scheduled day will be from that month and day to that month and day (12/25 to 12/25). If you want that day to be a quite day, you can delete everything from that alternate day.*

Press *SP* and *ALT SCHED*. At this point the display may have a start date or Add displayed. If a start date is displayed, press *BACK* until **Add** is displayed and press *SET*. Now press *FWD / BACK* until the start month is displayed and press *SET*. Next press *FWD / BACK* until the start day is displayed and press *SET*. Press *FWD* until the end month is displayed and press *SET*. Next press *FWD* until the end day is displayed and press *SET*.

### **Editing an Alternate Schedule's Events:**

Press *ALT SCHED*. Now press *FWD / BACK* until the start date of the of the desired schedule is displayed. Press *SET*. *From this point you can either review and / or delete undesired events, or add new events. You can delete any event by overwriting a new event into it's time slot. For New Years Day or Christmas Midnight Mass, the event must be scheduled for that day at 12:00 am and not on the eve of that day. To override curfew, hold the ENTER button until the display reads No c and enter your midnight event.*

### **Looking Up Scheduled Events:**

Press *REVIEW EVENTS* and select from the blinking event buttons. Once an event has been selected, you can use the *FWD / BACK* button to look at the different time slots. Day lights will light to indicate the day the event is scheduled on. Press a day button and the event information will be displayed (i.e. bell duration, song number, or random song and library played from will also be displayed). Press the *DELETE* button when you come upon as event you want deleted. This mode will delete events from all the days indicated by the lights. Or, press *REVIEW DAYS* and select from the blinking day buttons. In this procedure you select a day to review, and the event for that day will light with the time displayed. Press the event button and the event information will be displayed as before.

**Events are entered as they would be for a normal schedule.** Press *ENTER*. Select event and press *SET*. Now set the duration, song, or random from library as desired. Press *STOP* or *AUTO* buttons to exit this mode. Press the *DELETE* button to delete an event from that day.

***Remember:** The green light above the **AUTO** button must be lit for automatic events to play.*