

MAAS-ROWE  
DCB2 *Digital Chronobell*<sup>®</sup> III  
*7 Disk CD Player*

**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**  
(Illustration 1.)

The **Digital Chronobell III** with **CD7 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 on particular days and reviewing the schedule.

**Bell Buttons/Lights.** For ringing individual bells. Also to indicate which bells are ringing.

**Event Buttons/Lights.** For entering events into the schedule, reviewing the schedule, and to starting events manually. An "event" is a bell-ring, carillon concert, etc. that can be scheduled or started.

**Mode Buttons/Lights.** For selecting various modes of operation. Refer to description of individual button/light.

**REVIEW DAYS** For reviewing the schedule on a particular day.

**REVIEW EVENTS** For reviewing all the times and days when a particular Event is scheduled.

**SET TIME** For setting the time and date.

**ENTER** For entering events into the schedule.

**ALT SCHED Button/Light.** For entering and reviewing Alternate Schedules.

**RANGE** For entering the **Clock Strikes** as a group.

**LIB** For defining and assigning Libraries

**SP** For "Special" operations

**MANUAL** Allows manual starting of events and prevents scheduled events from starting.

**AUTO** Allows scheduled events to start.

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**STOP** Stops any event in progress.



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**CD 7 COMPACT DISC CARILLON CONTROL PANEL**  
(Illustration 2.)

The **CD7 Compact Disc Carillon** is controlled primarily from the **DCB3 Control Panel**. However, there are some indicators and controls on the **CD7 Panel** as described below.

**6 CD Magazine** Holds up to 6 CD's. The top position is designated #1. Use to hold CD's that will be used for scheduled events.

**Single CD Drawer** Holds an additional CD. Designated as position #7. Can be used to hold CD's that will be used for scheduled songs or used to play CD's for special purposes such as organ music inside, if the system is provided with inside amplification and appropriate CD's.

**EJECT** Ejects Magazine.

**OPEN/CLOSE** Opens or closes single CD Drawer.

**AMPLIFIER SELECT** The position of these switches determines whether the sound will be heard through the Tower Amplification system, the Inside Amplification System, or both. Inside Amplification is an extra cost option that may not be installed. A separate switch is provided for the **6 CD Magazine** and the **Single CD Drawer**.

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**TO SET DATE AND TIME**

Press **TIME**

Select:

**YEAR**

**MONTH**

**DAY OF MONTH**

**HOUR** (choose AM or PM)

**MINUTES**

Notes:

1. In general, "select" by using **BACK/FWD**, then **SET**.
2. Set to exact second by scrolling to upcoming minute in last step, then waiting until

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minute changes before pressing **SET**.

3. Daylight Savings Time changes are automatic in applicable areas.

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**DAYLIGHT SAVINGS/STANDARD TIME CHANGES**

This system will change the time automatically on the dates required for changing from Daylight Savings Time to Standard Time and vice versa.

However, some areas of the U.S.A. do not have Daylight Savings time. If the area where this equipment is being installed does not change to Daylight Savings Time, the installer should open the SERVICE PANEL (a small plate on back of the **DCB3 CONTROLLER**) and change **DIP SWITCH NUMBER 4** to OFF instead of ON, which is the way it is normally set when shipped from the factory.

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**TO START BELL-RINGS MANUALLY**

**ANGELUS:**

Press **MANUAL**, then **ANGELUS**.

**PEAL OR SWINGING BELLS:**

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

Select:

Minutes of duration

Seconds of duration

**TOLL:**

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

Select Number of Tolls

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Notes:

1. In general, "select" by using **BACK/FWD**, then SET.
2. Pressing **STOP** immediately ends anything in progress.

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**TO SCHEDULE AUTOMATIC BELL-RINGS OR CLOCK STRIKES**

**ANGELUS OR CLOCK STRIKES:**

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

Select:

**DAYS**

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

**MINUTE**

**PEAL OR SWINGING BELLS:**

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

Select:

**MINUTES** of duration

**SECONDS** of duration

**DAYS**

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

**MINUTES**

**TOLL:**

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

Select:

Number of Tolls desired.

**DAYS**

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

**MINUTE**

Notes:

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1. See "To Schedule a Range of Clock Strikes" for an alternate method of entering clock strikes.
2. In general, "select" by using **BACK/FWD**, then **SET**.
3. Select **DAYS** by pressing desired day buttons, then **SET**.
4. Exit by pressing **AUTO** or **STOP**.



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

Press **RANGE** one or more times to select **ALL**, **Hr**, or **Hr 30**.

Press **SET**.

Select:

**DAYS**

**FROM** time (with correct AM/PM)

**TO** time (with correct AM/PM)

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Notes:

1. In general, to select something use **BACK/FWD**, then **SET**.
2. Select **DAYS** by pressing **DAY BUTTONS**, then **SET**.
3. Press **STOP** or **AUTO** to exit.

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**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.

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**TO PLAY INDIVIDUAL CHRONOBELL BELLS MANUALLY**

Press **MANUAL**.

Wait appx. 15 seconds for warm up of amplifier.

Press **BELLS** as desired.

Press **AUTO** when finished.

Notes:

1. If a Keyboard Carillon Instrument is part of the system, refer to separate instructions.

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2. If **MANUAL** button is pressed only once, **MANUAL** light comes on steadily, and system will revert to **AUTO** after about 15 Minutes. If **MANUAL** button is pressed twice, **MANUAL** light blinks and system will remain in **MANUAL** mode until **AUTO** is pressed.

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**TO CREATE, PLAY OR SCHEDULE SEQUENCES OF CHRONOBELL 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**

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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.

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**TO LOAD COMPACT DISCS**

**Magazine:**

Press **EJECT** and remove the magazine.

Pull out the desired tray while holding in the release button on the side of the Magazine.

Insert a CD label side up in the tray and insert into the Magazine.

Insert Magazine into CD Player slot.

**Drawer:**

Press **OPEN/CLOSE** to open Drawer.

Place a CD in the Drawer, label side up.

Press **OPEN/CLOSE** to close Drawer.

CD's in the machine are assigned a number according to their location in the Magazine or Drawer as follows:

**MAGAZINE:**

1. (Top position)
- 2.
- 3.
- 4.
- 5.
- 6.

**DRAWER:** 7.



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**TO START THE CD PLAYER MANUALLY**

Press **MANUAL**.

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

**d#:** # (specific song play, e.g. d1: 1 = disc 1, song 1)

or

**r-1** (random play)

or

**n-1** (sequential play)

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

**disc#**, **song#** and the song will play.

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

Select how many songs to play.

Select **Lib1**, **Lib2**, etc. to choose the **Library** the songs will play from.

Notes:

1. In general, "select", by using **BACK/FWD**, then **SET**.
2. Press **CD** button while a cd is playing to see cd and song #.
3. Press **STOP** to stop any Event in progress.

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4. If **MANUAL** button is pressed only once, **MANUAL** light comes on steadily, and system will revert to **AUTO** when cd play starts. If **MANUAL** button is pressed twice, **MANUAL** light blinks and system will remain in **MANUAL** mode until **AUTO** is pressed.

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**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 **Lib1, Lib2**, etc. to choose a specific **Library** the songs will play from, or select **Lib** to choose the assignable **Library**.

Select:

**DAYS.**

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

**MINUTE**

Notes:

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

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**CREATE OR EDIT A CD LIBRARY**

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

Select the **Lib** (Library) desired.

Press **ENTER**, then select the **disc#, song#**.

Repeat previous Step to load each additional song into the Library.

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

**PUT A BLOCK OF SONGS INTO A LIBRARY**

This can be used to write a number of consecutive songs from a CD into a Library as a block, rather than one at a time.

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

Select **Lib-1**, etc. for the **Library** desired.

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

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

Notes:

1. The system can hold up to 9 Libraries. Each Library can hold up to 99 songs.

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**TO USE THE ASSIGNABLE LIBRARY "LIB"**

When scheduling songs to play in **random** or **next** mode, select **Lib** without a number instead of a specific library like **Lib1**, **Lib2**, etc. **Lib** may be found by going back from **Lib1** or forward from **Lib9**.

After schedules are entered, press **LIB** button on front panel and select **Lib1**, **Lib2**, etc. to assign a specific library to all places where **Lib** has been used.

Reassign the **Library** assigned to **Lib** at any time by repeating previous Step.

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**TO COPY OR DELETE A CD LIBRARY**

**COPY TO ONE LIBRARY FROM ANOTHER:**

Press **SP**, then **Lib**.

Select Library to copy to (----) confirms it is empty.

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

Select Library to copy from.

**DELETE A LIBRARY:**

Press **SP**, then **Lib**.

Select Library to delete.

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

Notes:

1. **Err** displayed if attempting to copy to a non-empty Library.

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

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

Select the **CD** desired.

Press **SET**.

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**PLAYING COMMERCIAL CD'S IN THE SYSTEM**

Commercial CD's are "Stereo" as opposed to **Maas-Rowe** CD's which have different material on the left and right channels.

If you wish to use **THE CD DRAWER** for commercial CD's, instead of **Maas-Rowe** CD's, set **DIP SWITCH 5** on the back of the **DCB3 CONTROLLER** (inside the Service Panel) to "**ON**", instead of "**OFF**" which is the way it is normally set at the factory.

So long as the DIP SWITCH is set for "Stereo", do not attempt to play **Maas-Rowe** CD's in the drawer or two songs will play at the same time!

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

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

Select list **EL-1** to **EL-99**.

The **Display** indicates **LIST#**, **ITEM#**. For example, **1.--** means "List 1" is empty, while **1.3** means "List 1, Item 3". If the list is not empty, use **BACK/FWD** to go to any position in the list. Additional items can be added to the list. Their position will be immediately after the item displayed when **ENTER** is pressed.

Press **ENTER**, then press the button corresponding to what is to be added to the list.

A. **Angelus** requires no further steps.

B. **Peal** or **Swinging Bells** require the following additional steps.

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

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

Select **Number of Tolls**.

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

Select one of the following:

**d#,#** (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**).

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**TO START AN EVENT LIST MANUALLY**

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

Select **EL-1**, **EL-2**, etc., as desired.

Select the event with which the Event List should start.

The **LIST** light blinks.

Press **LIST** again to start.

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

While an event is playing press **LIST** and the light above this button will blink. While in this mode, the next event in the **EVENT LIST** will not play 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.

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**TO SCHEDULE EVENT LISTS FOR AUTOMATIC PLAY**

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

Select:

**EVENT LIST** desired.

**DAYS**

**HOURS** (with correct am/pm)

**MINUTES**

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Notes:

1. In general, select by using **BACK/FWD** and **SET** buttons.
2. If the Event List has not been created, it can still be scheduled, but will not play.

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**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 this 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 the schedule for this Day.

Press an applicable **EVENT** button to display more information about the Event such as the **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 or an additional event will also be deleted.

Press **AUTO** to return to normal.

Notes:

1. To review **Alternate Schedules** see separate section.
2. Using **Review Days** is more selective than **Review Events** when deleting, since if

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**DELETE** is pressed while reviewing Events, that event will be deleted at that time for all days it was scheduled on.



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**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 **MON**.

All scheduled Events will have been erased.

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

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

Alternate Schedules can be created for one day, such as a Holiday, or multiple days. Up to 24 Alternate Schedules are allowed.

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

Select:

**Add** to create a new one, or start date of Alt Sched to be changed.

**Month (FROM)**

**Day (FROM)**

**Month (TO)**

**Day (TO)**

**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 deletion was not made. In that case, press **STOP** and start over.

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**TO ENTER OR REVIEW IN AN ALTERNATE SCHEDULE**

When an **Alternate Schedule** is created, all the Events from the regular schedule are copied into it.

**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 Schedule to take Events out 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, you should 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.

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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.

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**SCHEDULING RULES**

1. Scheduling an event erases any event previously scheduled for the same time and day.
2. An event in progress supercedes a scheduled event.
3. An event must end at least one minute before any subsequent event or the subsequent event will be superceded. In the case of the **HOURLY STRIKES**, prior events must end at least two minutes before the Hour, or the Hour Strike will not start. For this reason, it is better to schedule songs after the Hour Strike than before it.
4. An event can be scheduled to start as close as one minute after any bell-ring, except that after the Angelus two minutes is required.

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**BATTERY BACKUP**

The system includes a battery backup which maintains 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.

Be sure to keep system power connected while changing the battery or the time will be lost and require resetting.

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).

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**WARNING MESSAGES AND ERROR CODES**

**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.

**AUTO** or **MANUAL** can always be pressed to get back to a familiar starting point. The system can be left in any mode but **BLINKING MANUAL**, and it will return to **AUTO** by itself in 30 minutes.

**ERROR 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>EC 87 - 99</b>	System errors

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**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. **1.0**.
2. The number of unused events. This is initially 900 and decreases as events are added to the schedule.
3. Start and End Date of the current schedule. This is **1.1** to **12.31** for the regular schedule, or an appropriate starting and ending date if an **Alternate Schedule** is active.

**SERIAL NUMBER DISPLAY**

With the system in **AUTO** press and hold in the **DELETE** button.

A series of five numbers will be displayed in succession. These are **Serial Numbers** that can be used to identify the **DCB3 Controller** and its internal circuit boards as follows:

**DCB3 NUMBER**  
**FRONT PANEL BOARD NUMBER**  
**CPU BOARD NUMBER**  
**POWER MODULE BOARD NUMBER**  
**INTERFACE BOARD NUMBER**



**MAAS-ROWE MODEL DCB3/CD7  
OPERATING INSTRUCTIONS**

**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**

Select:

Minutes of duration

Seconds of duration

**ALTERNATE:** Just press **SWING** twice in the first step to ring for duration displayed.

**TO START PEAL:**

Press **PEAL**

Select:

Minutes of duration

Seconds of duration

**ALTERNATE:** Just press **PEAL** twice in the first step to ring for duration displayed.

**TO START TOLL:**

Press **TOLL**

Select **Number of Tolls**

**ALTERNATE:** Just press **TOLL** twice in the first step to ring number of tolls displayed.

**TO START USER DEFINED "SEQUENCE":**

Press **FUN**

**MAAS-ROWE MODEL DCB3/CD7  
OPERATING INSTRUCTIONS**

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

Press **BELL**

Select Bell

**MAAS-ROWE MODEL DCB3/CD7  
OPERATING INSTRUCTIONS**

**OPTIONAL MODEL RA-3 REMOTE CONTROL STATION**

**TO ASSIGN "SWING" BUTTON TO ANY BELL:**

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

Select **bEL1 ... bEL7**

**TO ASSIGN "FUN" TO ANY SEQUENCE:**

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

Select **F 1 ... F 9**

**TO ASSIGN "BELL" BUTTON TO ANY BELL:**

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

Select **bEL1 ... bEL7**

**MAAS-ROWE MODEL DCB3/CD7  
OPERATING INSTRUCTIONS**

**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:

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

**r-1** (random play)

**n-1** (sequential play)

For a specific song, select **disc# song#**.

For random or next mode, select:

**Number of songs** to play

**Library** songs will play from (Lib1, Lib2, etc.)

**TO START AN EVENT LIST:**

Press **LIST**

Select the **EVENT LIST**

Select the position in the list to start from.

Press **LIST** again, now or later, 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.

Notes:

1. The **KEYSWITCH** can be turned OFF any time after the event has started. This does

**MAAS-ROWE MODEL DCB3/CD7  
OPERATING INSTRUCTIONS**

not stop a bell-ring that is in progress.

**MAAS-ROWE MODEL DCB3/CD7  
OPERATING INSTRUCTIONS**

**OPTIONAL MODEL RA-2 WIRELESS REMOTE CONTROL**

This Wireless Remote Control is available as an extra cost option and may be part of the system. The **RA-2** allows starting an **EVENT LIST** that has been set up from the main **DCB3 Control Panel** or a wired **RA-3 Remote Control**. Once set-up, the next event in the **EVENT LIST** will start each time the button on the **RA-3 Wireless Remote Control** is pressed.

**MAAS-ROWE MODEL DCB3/CD7  
OPERATING INSTRUCTIONS**

**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. Upon restoration of power, they will immediately reset automatically. Resetting the tower clock hands takes less than one minute.

When DAYLIGHT SAVINGS/STANDARD time changes occur, the DCB3 CONTROLLER will change automatically to the correct time and reset the TOWER CLOCKS.

**MAAS-ROWE MODEL DCB3/CD7  
OPERATING INSTRUCTIONS**

**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** and any **Tape Players** that may be installed.

**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**.



**MAAS-ROWE MODEL DCB3/CD7  
OPERATING INSTRUCTIONS**

**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.

**MAAS-ROWE MODEL DCB3/CD7  
OPERATING INSTRUCTIONS**

**OPTIONAL 250 WATT TOWER AMPLIFICATION SYSTEM**

**250 WATT TOWER AMPLIFIER CONTROLS** (Illustration 7)

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 PROFUNDIS and any other bell-ringing functions that are not recorded on tape or compact disc. 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 **CD7 Compact Disc Carillon** and/or the **Random Access Cassette Tape Player**. Set this control to "4" initially, and later on adjust as required to bring the volume to the desired level. At the time this Manual is being written, the Cassette Tape Player is not yet available, but is planned for future introduction. It will be available in order to provide music that may be required and that is not available on CD.

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.

**MAAS-ROWE MODEL DCB3/CD7  
OPERATING INSTRUCTIONS**

**OPTIONAL 250 WATT TOWER AMPLIFICATION SYSTEM**

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 would include the **CLOCK STRIKES** which are not always desired inside. If desired, the speaker can be installed and the volume left off except when sound inside is desired for special occasions. This is an extra cost option that may not be installed. It is not the same as the **INSIDE SPEAKER** provided with a **Maas-Rowe** Keyboard Carillon which would be located elsewhere.

**MAAS-ROWE MODEL DCB3/CD7  
OPERATING INSTRUCTIONS**

**OPTIONAL 250 WATT TOWER AMPLIFICATION SYSTEM**

**SETTING UP THE DESIRED LEVEL OF VOLUME FROM THE TOWER SPEAKERS**

1. Set all the **VOLUME CONTROLS** as per the above section.
2. With the **TOWER SPEAKERS** switch **OFF**, play the **PEAL** and then play a song from the **CD PLAYER**. Adjust the **CLOCK** and **TAPE(=TAPE/CD)** Controls until the volumes are appx. equal. Note: they can not both be played at once.
3. Set the **MASTER** control on the **MODEL 573 MIXER** to "5".
4. Turn on the **TOWER SPEAKERS** switch and listen to the sound from the tower. Use the **MASTER** switch on the **MODEL 573 MIXER PANEL** to change the tower volume to the desired level. If turning the **MASTER** switch all the way up does not produce enough volume, carefully raise the **CLOCK** and **TAPE (TAPE/CD)** controls until the desired volume is reached.
5. Be conservative with the tower volume level at first. The sound may be much louder at some locations than at others. In particular, the sound may be much louder some distance away from a tower than it is right below it because the sound may be shooting over your head when right below the tower. It is better to have the neighbors calling to complain that they can't hear the carillon, than calling to complain they are being blasted out of their living rooms! Playing the carillon a little softer than you would like at first is very wise, the sound can be turned up gradually after the community has become accustomed to it.
6. After the volume controls are set, mark them with a pencil, which will write on the control panels without damaging them (except for the 250 Watt Amplifier, which should be set almost all the way on anyway). That way, you will know whether the settings have been changed by anyone in the future.

**MAAS-ROWE MODEL DCB3/CD7  
OPERATING INSTRUCTIONS**

**OPTIONAL 250 WATT AMPLIFICATION SYSTEM**

**MAXIMUM VOLUME**

These carillon systems have very powerful amplification. Turning them up so high that they cause distortion in the speakers can damage the speaker drivers and also result in a distorted, unpleasant sound. It is important not to do this.

The **250 WATT SOLID STATE AMPLIFIER** is equipped with 5 lights -- three green and two red. The two red lights are marked **CLIPPING**. While the carillon system is playing, the intense transients contained in bell sounds will occasionally cause the red lights to come on if the volume is getting near maximum output. This is O.K. However, if the red lights are coming on almost continuously, volume is set too high and should be reduced to avoid damaging the speaker system.

Distortion of the sound will be present if the volume is too high. The sound will be "raspy" or it will sound like something is rattling. Unfortunately, a rattling sound could be the result of a grille or other parts of the tower vibrating. If the speakers are really distorting, it can usually be heard in the MONITOR SPEAKER as well. Rattles caused by the physical aspects of the tower itself are usually the responsibility of the customer as this is beyond the control of the company. In any case, they do not harm the amplifier or speaker system.

If distorted sound results no matter what volume is being used, it could also be that a Speaker Driver Unit has been damaged from excessive volume, lightning, or other causes. This is unlikely when the system is newly installed unless the system was played at an unreasonably loud volume for 5 minutes or more. If this happens, the only solution is to replace the damaged speaker driver.

**MAAS-ROWE MODEL DCB3/CD7  
OPERATING INSTRUCTIONS**

**OPTIONAL 100 WATT INSIDE AMPLIFICATION SYSTEM**

A separate 100 WATT INSIDE AMPLIFICATION SYSTEM is available as an extra cost option. This is sometimes purchased separately for the purpose of projecting some or all of the CD music inside, or it comes as part of a **Maas-Rowe** Keyboard Carillon system. In the case of the latter, there will be one or more Remote Volume Controls provided at the Carillon Keyboard. In the case of the former, the only Volume Controls are as described here.

**INSIDE AMPLIFIER CONTROLS (100 Watt Model)**

Refer to **Illustration 8. 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** is not normally used since the bell rings such as the Clock Strike, Swinging Bells, etc., are not normally sounded inside. Leave this control set to "**0**".

**TAPE/CD** is used for the **Compact Disc Player** and any **Tape Players** that may be installed.

**BASS** and **TREBLE** control the tone quality of the entire system through the **INSIDE** 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. During automatic operation 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 amplifiers are **ON**. The **POWER SWITCH** will stay illuminated for 40 seconds after **MANUAL** is turned **OFF**.

**MAAS-ROWE MODEL DCB3/CD7  
OPERATING INSTRUCTIONS**

**OPTIONAL 100 WATT INSIDE AMPLIFICATION SYSTEM**

**SPEAKER CONTROLS**

The **MONITOR** control allows you to hear what is playing through the Inside Amplifier through the Monitor Speaker behind the Inside Amplifier Control Panel. This can be turned **OFF** by turning it counter-clockwise all the way.

The **INSIDE SPEAKERS** switch can be used to turn the inside speaker(s) **ON** or **OFF**.

The **INSIDE** control, to the left of the **MONITOR SPEAKER** is not used and should be left off. In some installations, it will be blanked out.

**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(s) on while paging as well as to prevent any bell-rings from occurring.

**MAAS-ROWE MODEL DCB3/CD7  
OPERATING INSTRUCTIONS**

**ABOUT THE COMPACT DISC LIBRARY**

The types of bells used for these Carillon recordings is specified as follows:

1. If not specified: The **Symphonic Carillon** is used. This instrument sounds "in tune" and provides a clarity and dignity that must be heard to be appreciated.
2. **Harp/Celeste Bells**: Are sometimes used in accompaniment with Carillon Bells or Solo. **Harp/Celeste** is specified as part of the Song Listing, if these bells are used in a song.
3. **Flemish Bells**: These are the more "dissonant" Carillon Bells. **Flemish Bells** are specified as part of the Song Listing, if they are used in a song.
4. **Combinations of Bells**: In some songs, combinations of bells are used to provide the desired effect. This is indicated in the Song Listing. The following combinations are possible:
  - a. **Flemish/Symphonic** indicates Flemish Bells have been combined with **Symphonic Carillon** bells.
  - b. **Flemish/Minor 4'** indicates **Flemish Bells** have been combined with **Minor Bells** an octave higher.
  - c. **Symphonic/Minor 4'** indicates **Symphonic Carillon Bells** have been combined with **Minor Bells** an octave higher.
  - d. **Harp/Celeste** indicates a combination of **Harp** and **Celeste**.

As the Master List indicates, more than one arrangement has been provided for many songs. This provides variety and makes it possible to choose the sound that best suits the occasion.



**MAAS-ROWE MODEL DCB3/CD7  
OPERATING INSTRUCTIONS**

**HOW TO USE THE FOLLOWING INDEXED SECTION:**

The following Tabbed Index Sheets are for organizing the Alphabetical and Numerical Lists of each **Compact Disc**.

The Tabs are marked according to the positions where the **Compact Discs** can be installed in the system

- d1** (top position of magazine)
- d2**
- d3**
- d4**
- d5**
- d6** (bottom position of magazine)
- d7** (drawer)

Both Alphabetical and Numerical Lists of songs are provided with each Compact Disc. When you put a **Compact Disc** into a particular position of the system, put the Alphabetical and Numerical Lists for that **Compact Disc** into the corresponding index section.

An alphabetical Master List is also provided which lists all the songs available from **Maas-Rowe** on Compact Disc. You will be sent new copies of this list from time to time as new Compact Discs become available.

When your book is properly set up, you can look up any song in the **Master List** to see if it is available on a **Maas-Rowe CD**. Then, check where that **CD** is installed so you can enter the **d#:#** at the system control panel as required.

We recommend leaving the **CD Drawer** free until all the positions of the **Magazine** have been filled. That way, the **CD Drawer** can be used to play special CD's such as standard commercial ones, without disturbing the positions of the **CD's** normally used.

If you change the position of a **CD** in the machine, the schedule will also have to be changed to reflect this information.

# CONTROLLER FRONT PANEL

MAAS-ROWE

DIGITAL CHRONOBELL II

FROM  TO  DATE

DELETE  AM  PM

BACK  FWD  SET

[REVIEW]  DAYS  EVENTS  ENTER  TIME  SCHED  ALT  UB  RANGE  SP  MANUAL  AUTO

SUN  MON  TUE  WED  THUR  FRI  SAT

[ ]  [ ]  [ ]  BELLS [ ]  [ ]  [ ]

[SWINGING BELLS]  ANSELUS  PEAL  LOW  MED  HIGH  TOLL  CLOCK  STRIKE  MPR  CD  LIST  FUN  AUX1  AUX2  STOP