Millennium Tower Bell Control Option

The Millennium Carillon is able to provide ringing control for up to six real bells. Each bell may be equipped with an electric striker (tolling hammer), a motorized swinging mechanism or both. Depending on the number of bells and their pitches, suitable time strike chime melodies can be selected to ring quarterly or on the hour. The features described in this section will be activated when the system is configured with Chime Master tower bell relay panels.

Enabling Time Strikes on the Tower Bells

The time striking feature of the Millennium Carillon defaults to playing the Westminster Chime on the electronic carillon bells. To set the carillon to ring the time on the tower bells, bring up the **Setup Menu** then select **Time Strike Melody**. Scroll through the list of melodies until you find the one you desire with the prefix *TwrBell*. The names of the melodies also indicate the number of bells (equipped with electric strikers) required to perform the tune. Melodies such as the Westminster, Christus Vincit and Parsifal require bells of certain pitches for the tune to be recognized. Bigelow, Warren and Avondale sequences are generally used to ring two to four bells. For a single bell, select any of the *TwrBell* melodies in this menu, so that the system will toll the time strike on the tower bell.

The second step to getting the bells to ring the time is to schedule when you want the time to ring. The easiest way to program this schedule is using the **Setup Menu - TimeStrike/AutoLevel** menu screen. This procedure is covered in the *Operating Manual* in Section 5, *Global Scheduling*. For single bell installations, select one of the three striking options: *FullStk* to ring on all quarters, *HalfStk* to ring on the hour and half-hour or *TopStk* to ring on the hour only.

Swinging Bells and Simulated Swinging

Any combination of swinging and/or stationary bells may be controlled in a fashion that can make all of the bells sound as if they are swinging. In the tables below, bells are numbered from largest (always bell 1) to the smallest.

Enter the four-digit code from the table whenever four digits are flashing in the **Play Selections**, **Setup Function Button** or **View/Edit Schedule** screens. Each bell may be rung continuously for 15 seconds to 24 minutes in 15-second increments. The second two digits in the code indicate the number of quarter-minute periods to ring. Simulated swinging bells will stop immediately at the end of the period, but bells rung by an electric swinging mechanism may take as much as a minute longer to slow to a stop. Keep this in mind when programming the length of time to ring.

The 7701-7999 functions ring combinations of bells. You may want to experiment to see which combinations sound best with your bells.

Swing	15 sec	30 sec	45 sec	1 min	2 min	3 min	4 min	5 min	10 min
Bell 1 Only	7101	7102	7103	7104	7108	7112	7116	7120	7140
Bell 2 Only	7201	7202	7203	7204	7208	7212	7216	7220	7240
Bell 3 Only	7301	7302	7303	7304	7308	7312	7316	7320	7340
Bell 4 Only	7401	7402	7403	7404	7408	7412	7416	7420	7440
Bell 5 Only	7501	7502	7503	7504	7508	7512	7516	7520	7540
Bell 6 Only	7601	7602	7603	7604	7608	7612	7616	7620	7640
1,2 & 4[1]	7701	7702	7703	7704	7708	7712	7716	7720	7740
1,2,3 & 5[2]	7801	7802	7803	7804	7808	7812	7816	7820	7840
All Bells	7901	7902	7903	7904	7908	7912	7916	7920	7940

Toll Bell	Single	15 sec	30 sec	45 sec	1 min	2 min	3 min	4 min	5 min	10 min
Selected[3]	0300	0301	0302	0303	0304	0308	0312	0316	0320	0340

[1] Bells 1, 2, and 4 will ring a three bell major peal when used with four-bell Westminster or Parsifal peals.
[2] Bells 1, 2, 3 and 5 will ring a four bell major peal when used with five-bell Westminster peals.
[3] The tolling bell is selected using the USB Tower Bells configuration program.

Angelus bells call the community to prayer at morning, noon and evening times. Three different tempos are available to allow the appropriate amount of time between rings for each prayer. A choice of two pitches as well as either a toll or a one-minute swinging bell to end the prayer is available. The 3-3-3 only is provided so you can program a swing or tolling bell of any length from the previous page to follow the prayer bell. The De-Profundis may be rung following the last Angelus of the day.

Angelus 3-3-3 only	**Slow (5 sec tempo)**	**Medium (4.5 sec tempo)**	**Fast (4 sec tempo)**
Bell 1	4105	4103	4101
Bell 2	4106	4104	4102

Angelus 3-3-3 - 9 tolls	**Slow (5 sec tempo)**	**Medium (4.5 sec tempo)**	**Fast (4 sec tempo)**
Bell 1	4111	4109	4107
Bell 2	4112	4110	4108

Angelus 3-3-3 - Swing	**Slow (5 sec tempo)**	**Medium (4.5 sec tempo)**	**Fast (4 sec tempo)**
Bell 1, Swing Bell 2	4117	4115	4113
Bell 1, Swing Bell 1	4118	4116	4114

De-Profundis 4119 **Large bell, 9 counts, 10 seconds per toll**