



# *Gulbransen Digital Hymnal*

OWNER'S MANUAL

Item # DH100

Manual # OMDH100



QRS Music Technologies, Inc.

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# Gulbransen DH-100

## Digital Hymnal Owner's Manual

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## Introduction to the Gulbransen Digital Hymnal DH-100

With thousands of hymns and choruses stored in its memory, Gulbransen's DH-100 is the most comprehensive self-contained electronic accompanist on the market. Its main features are:

- Fidelity — CD-quality 16-bit PCM (Pulse-Code Modulation) stereo sounds.
- Portability — operates with the optional battery or from a wall power adapter.
- Integrity — everything needed is integral to the Hymnal. The music, sound, and speakers are self-contained.
- Flexibility — use with microphone, headphones, and external sound systems.
- Convenience — the Hymnal comes with a remote control.
- Versatility — customize hymns with the many available Styles and Orchestrations.
- Dependability — the solid-state chassis is housed in a rugged plastic case.

The Hymnal is set to play from its master list of Hymns as it comes from the factory, but a new Hymnal owner may choose one of the many available hymn books by entering the proper code. A hymn can then be chosen from that book by entering the appropriate hymn number. The key, tempo, and number of verses will be taken from the hymn book. At this point, the hymn can be played using the factory default volume, sound, and style settings. Any of these parameters can be changed before or during playback. Of course, playback can also be paused or stopped at any time. *Tap-A-Tempo* synchronizes the playback tempo with the beat "tapped" into the front panel. To have the Hymnal lead into a hymn with an appropriate short introduction, use the **INTRO** command. Likewise, an Amen may be appended to any hymn with the *Amen* function.

The DH-100 can also memorize a series of hymns — a feature that comes in very handy when making advance preparations for the service music. During the service, the pre-defined series of hymns can be played at the appropriate times. It can remember the performance preferences for selected hymns, such as the orchestration, style, number of verses, Amen, and transposition. Individual parts (soprano, alto, tenor, and bass) can be soloed or played in various combinations. For example, the ability to solo any of the four parts (*Soprano, Alto, Tenor, Bass*) may come in handy during choir rehearsal when hearing one line alone would clarify any musical confusion. The built-in metronome is another useful rehearsal tool. Hymns can be orchestrated in many different ways using the wide variety of sounds available in the DH-100, thereby allowing the creation of new performance ensembles.

The DH-100 can provide its own power and sound from its optional internal NiCad battery and two 3-inch speakers. When attached to its AC power adapter, the internal battery is automatically recharged. To conserve battery power, the Hymnal also features a shut-down function that automatically turns the unit off when it is running on battery power but not in use. If a public address system is available, the stereo audio outputs can be connected to the PA and the internal speakers can be switched off. To mix speech or singing with music in an uncomplicated way, a microphone input and a volume control are located on the top of the DH-100. Finally, the full-function remote control, in conjunction with the Hymnal's back-lit LCD (Liquid Crystal Display) and the adjustable built-in stand, makes the DH-100 easy to set up and use in almost any environment.

# ◆ 1 Digital Hymnal QuickStart Tutorial

Instructions on this page will give you a quick way to try out your Hymnal.

**POWER** — The Hymnal can be purchased with an optional NiCad battery already installed. If you want to check the battery, see the "Set up the Hymnal" section for details. Plug the Hymnal into the wall power and press the **POWER** button to turn the Hymnal on.

**DEMO** — To play the Gulbransen demonstration series of hymns, push the **DEMO** button, located next to the Power button in the upper left corner of the remote. Push the Hymn up (↑) button to skip to the next demo song.

**PLAY** — Select hymn 413 from the master hymn list by pushing ④, ①, ③, and **PLAY**.

**INTRO** — Play the hymn with an introduction by pressing **INTRO** instead of **PLAY**.

**TRANSPOSE** — Transpose the hymn up and down in half-steps using the **TRANSPOSE** buttons.

**TEMPO** — Change the playback tempo with the **TEMPO** controls. Try the Tap-A-Tempo function by tapping the ⊕ button on the front panel (not on the remote control) at the tempo you desire. This will prompt the Hymnal to follow along at the rate you dictate. The Tap-A-Tempo function usually needs about 3 or 4 taps to accurately estimate the tap input.

**VOLUME** — Turn the volume up and down with the **VOLUME** controls.

**PAUSE** — Temporarily stop the playback of a hymn by pushing **PAUSE**. The hymn will be "on hold" until the **PAUSE** button is pushed again.

**STOP** — Bring the hymn to a complete stop and return to the main menu by pressing **STOP**.

## Conduct a new arrangement of an old favorite.

**VERSES** — Select the number of verses. For example, set the number of verses to two by pushing **VERSES**, 2, and ⊕ (Enter).

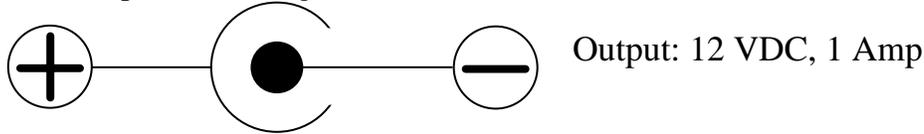
**SOUNDS** — Change the performance sound by pushing the **CHOIR/CHOIR2** button once. This selects the first choir sound. Push it again and a different choir will sing. Try **PIANO/HARPSICHORD** and other sounds.

**STYLE** — Listen to a different performance style. Select Style 42 by pushing **STYLE**, ④, ②, and ⊕ (Enter). This means that Sound Preset code 2 (the "2" in "42") will play the parts with the flute, string, choir, and pipe organ sounds. Arrangement Preset code 4 (the "4" in "42") tells the Hymnal to play the melody up an octave in **MELODY**, all four parts combined at pitch in **ACC 1** and **ACC 2**, and the bass line down an octave in **CONTRA**. Many styles are available in the Digital Hymnal. See the section on Performance Styles.

**AMEN** — Add an Amen by selecting pushing the **AMEN** button. An Amen will play at the end of the last verse.

## ◆ 2 Safety Precautions

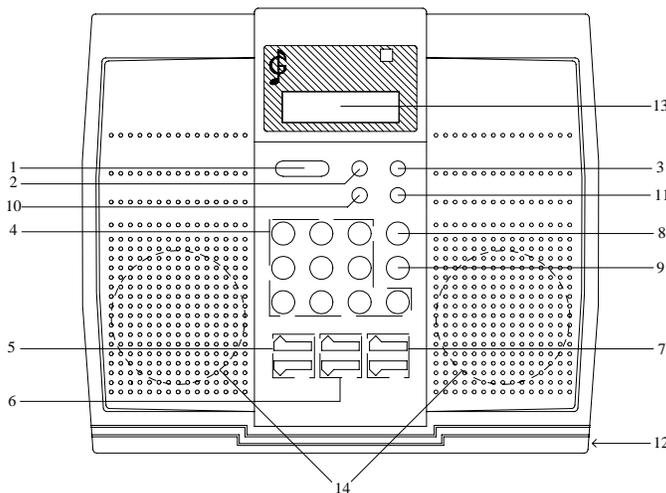
- ☐ When an AC outlet is available, use the wall power adapter to power the Hymnal. If an adapter other than a Gulbransen adapter is to be used, make sure that it will provide the proper power and polarity. The symbol on the adapter containing this information should look like this:



- ☐ Do not connect an external audio amplifier when the volume is turned up. It is always best to make connections to external devices with all the equipment turned off.
- ☐ Extremes of temperature may cause damage. Leaving the Hymnal close to a heater or on a car dashboard may cause it to melt. Also avoid using the unit in dusty environments.
- ☐ Do not drop the Hymnal. It will break!
- ☐ Use a soft, clean cloth to wipe dirt from the main unit and the remote. Never use wet or abrasive cleaners on the Hymnal.
- ☐ Do not open the Hymnal's case and poke around. There are no user-serviceable parts inside.

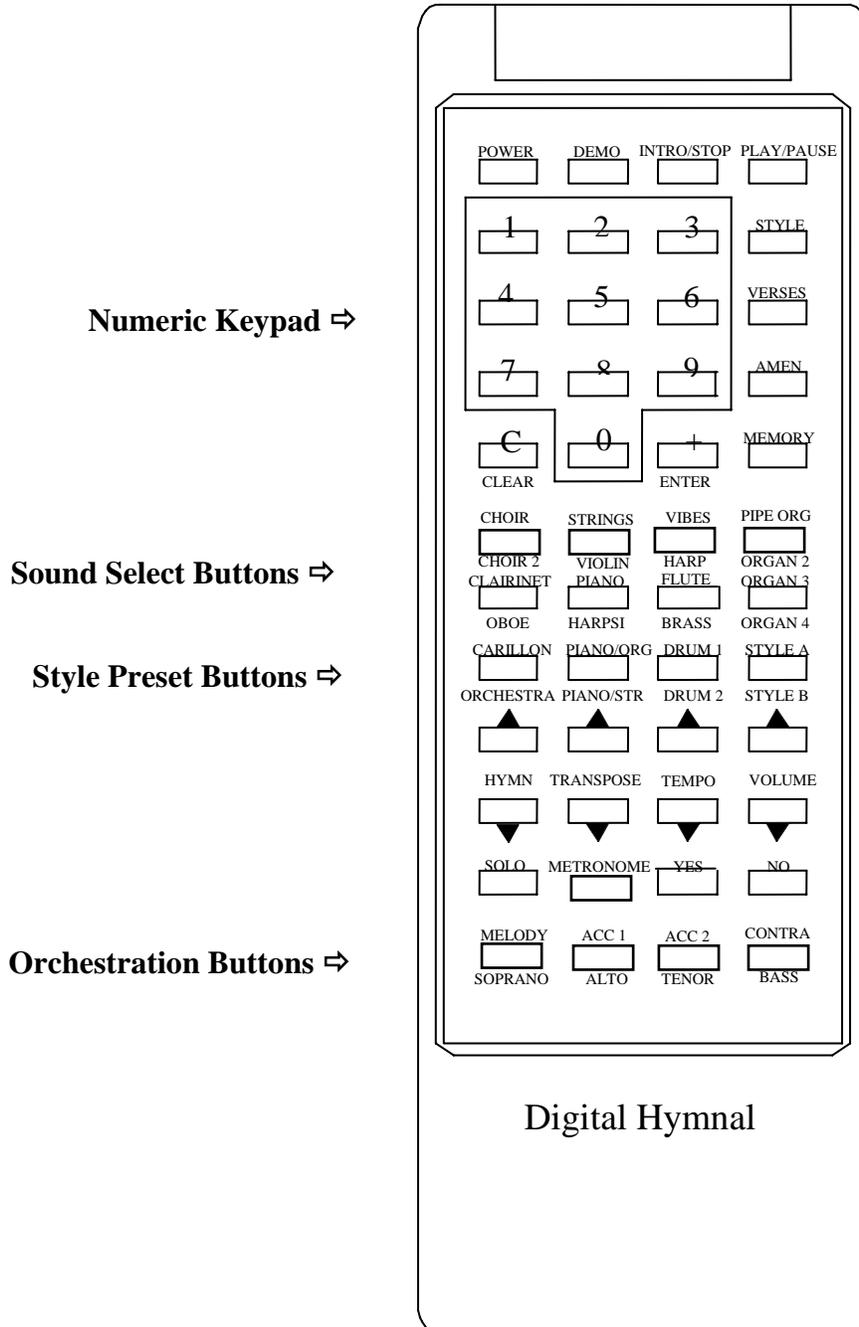
## ◆ 3 Control Locations

### Front Panel



1. Power On/Off
2. Intro/Stop
3. Play/Pause
4. Numeric keypad
5. Transpose
6. Tempo
7. Volume
8. Enter/Tap-A-Tempo
9. Clear
10. Verses
11. Style
12. Battery Cover
13. LCD (liquid crystal display)
14. Internal Speakers

# Remote Control



Numeric Keypad ⇨

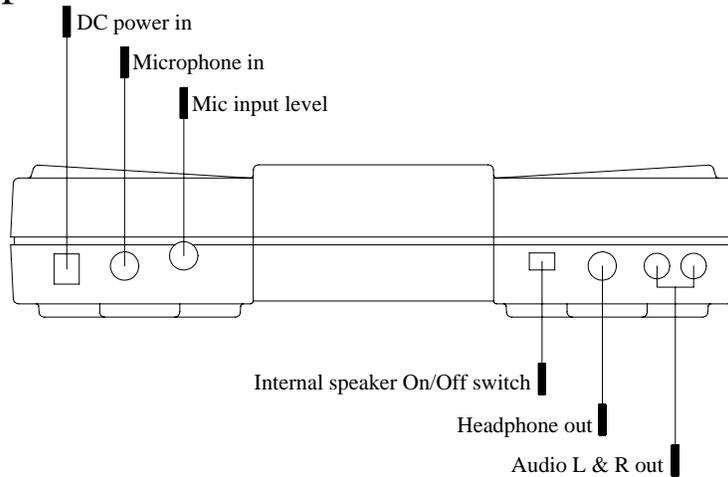
Sound Select Buttons ⇨

Style Preset Buttons ⇨

Orchestration Buttons ⇨

NOTE: The Yes and No buttons are not implemented at this time.  
All features of the Hymnal are accessible without these buttons.

## Top Panel



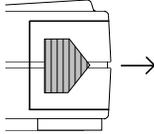
### Three-position stand.

The stand is located on the back of the Hymnal between the speakers. It can be released by quickly pushing and releasing the area covered with raised dots on the hinged rectangular rest plate. The rest plate will swing down and the support bracket will swing out. Place the bottom edge of the support bracket in one of the slots provided in the rest plate. The different slots provide multiple support angles for the Hymnal.

## ◆ 4 Hymnal Setup

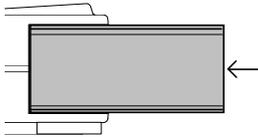
**1. Battery installation.** The Hymnal can be purchased with an optional battery. Sometimes it is already installed. However, you will need to follow this procedure if the battery needs to be inserted, inspected or replaced.

Remove the battery cover.



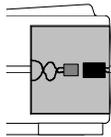
The battery cover is located on the lower right-hand corner of the Hymnal. Push the arrow-shaped area of the cover in (toward the middle of the case) while sliding the cover to the right. Don't be shy — the cover is designed to fit firmly in its channel.

Insert the battery.



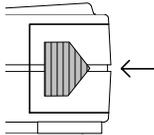
With its power connector on the right, slide the NiCad battery into its slot.

Connect the battery.



Attach the battery to the Hymnal's polarized power connector.

Replace the battery cover.

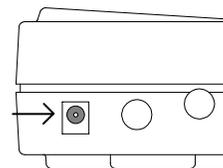


Slide the battery cover back into place. It should lock into place with a "snap."

**2. Connecting the wall power adapter.** Always use the DC adapter when wall current is available.

To operate the Hymnal for extended periods of time or to charge the battery, the 12V wall power adapter should be used. To guard against overheating, the wall adaptor should be unplugged when the Hymnal will not be used for several days. The battery will be fully charged in three hours.

Connect one end to the wall, the other to the Hymnal.



## ◆ 5 Playing the Hymnal

Become familiar with the basic operations.

### 1. Connect the wall power adapter.

The Hymnal will automatically turn itself on when the adapter is plugged in. It will then display a series of messages. **If a new battery has just been installed or if the Hymnal has just been taken out of the box for the first time, now would be a good time to charge the battery by leaving the unit attached to the DC wall adapter for three hours. Turn it off while charging.**

```
15 JUL 1994 09:3
0.25-HYMNG HYMNG
```

```
DIGITAL HYMNAL
BY GULBRANSEN
```

```
MST001 Style 21
2/2 80 BPM CM
```

Initially, two quick messages will zip by. The first of these indicates what software is running in your Hymnal. This screen will last for only about two seconds. Don't worry if the numbers and dates on your screen don't match what is printed on the left.

Now the Hymnal will issue its official greeting! This will also last for about two seconds.

At this point, the main menu will appear.

Turn off the unit by pushing the POWER button.

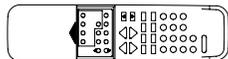
The display will go blank.

Turn the unit back on by pushing the POWER button again.

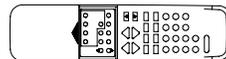


#### Remote Control note:

☞ Because the remote has more buttons than the front panel, some functions can be addressed only through the remote and other functions are more 'remote-friendly.' However, **one function not available from the remote is POWER On when the Hymnal is running on its battery.** For a comprehensive comparison, see the "Control function location summary" in section 7, "Control Descriptions." The tutorial will identify functions that can be accessed only through the remote (e.g. Memory) or best accessed through the remote with the following symbols:



REMOTE ONLY



REMOTE BEST

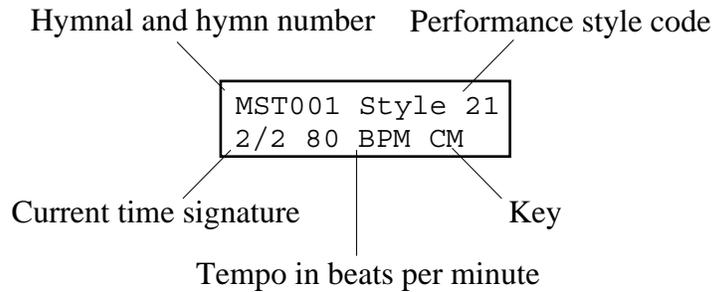
DIGITAL HYMNAL  
BY GULBRANSEN

The familiar sequence of start-up messages will flash past, followed by the ...

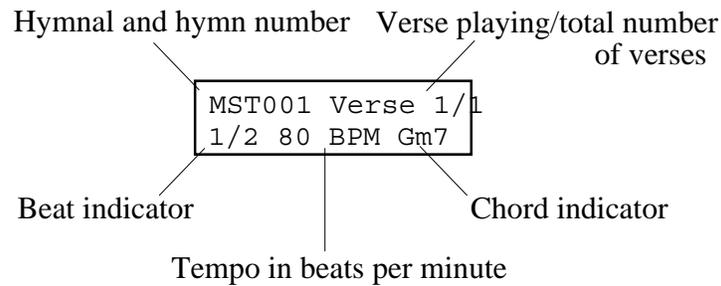
MST001 Style 21  
2/2 80 BPM CM

Main menu.

When the Hymnal is not playing, the elements in the display mean:



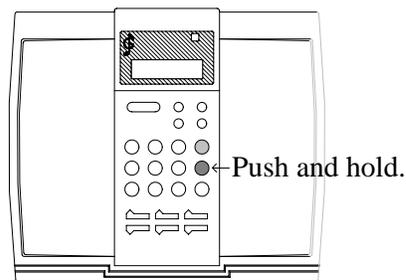
When the Hymnal is playing, the elements in the display mean:



## 2. Play the Gulbransen demonstration series of hymns.

Press the DEMO button on the remote. This is located in the upper left corner next to the POWER button.

To play the demonstration hymns from the Hymnal's front panel, press © and hold it down while pushing ⊕ (Enter). This type of front-panel command is called a "shift-key" function. When a shift-key function is illustrated in this manual, the shift key will be indicated by the darker button.



FRONT PANEL

### 3. Select a hymn book.

Enter one of the following codes on the numeric keypad. The Hymnal will remember which hymn book you selected most recently and return to it even if the Hymnal is turned off. The Master Index (Code 9000) alphabetically lists every title and tune name available in the Digital Hymnal. The Master Index is a separate booklet shipped with your Hymnal.

HYMN BOOK NAME	EDITION	COD E	ABBREVIATION
<b>Master Index</b> (all hymns and tunes in the Digital Hymnal)		9000	MST
Baptist Hymnal, The	1991	9001	BAH
Christian Praise Hymnal, The	1992	9001	BAH
Hymnal for Worship & Celebration, The (Word, Inc.)	1986	9004	HWC
Hymnal, The (Episcopal)	1982	9002	ECH
Hymns for the Family of God	1976	9003	HFG
Lutheran Book of Worship	1992	9005	LBW
New National Baptist Hymnal, The	1977	9007	NBH
Presbyterian Hymnal, The	1990	9009	TPH
United Methodist Hymnal, The	1989	9011	UMH
United States Forces, Book of Worship for	1974	9013	USF
Worship: A Hymnal and Service Book for Roman Catholics	1986	9008	RCW
Worship in Song	1972	9014	WIS
Worshipping Church: A Hymnal, The	1990	9010	TWC

For example, select *The Presbyterian Hymnal* by pushing 9, 0, 0, and 9, followed by ⊕ (Enter). You can return to the Master List at any time by pushing 9, 0, 0, and 9, followed by ⊕.

#### Choir Director's note:

☞ The Digital Hymnal's arrangement of a particular hymn may not exactly match the version contained in your hymnal. This is due to the fact that the Hymnal uses a core of approximately 2300 hymns to cover many others. Therefore, in some cases, hymns whose arrangements differ slightly may be referred to one basic hymn.

#### Copyright note:

☞ Due to copyright and publisher restrictions, some hymns are not available for performance on the Digital Hymnal. Gulbrandsen continues to work with the composers and publishers to make more titles accessible. Notices are sent to all Hymnal owners when upgrades are available. To facilitate this process, it is **IMPORTANT** that you fill out and mail in your Warranty Response Card. As an added bonus, purchasers who return their completed Warranty Response Card within ten (10) days of purchase will receive free of charge an additional 90 days of warranty coverage.

**4. Select a hymn.**

Enter the hymn number. For example, Hymn 123 is selected by pushing ①, ②, and ③.

- Pressing ⊕ (Enter) before playing a hymn will display the current settings for key, style, number of verses, and tempo. Any of these parameters can then be changed before playing the hymn.

**5. Play a hymn.**

Hymns can be played with or without an introduction.

- PLAY will prompt the Hymnal to begin playing the main body of the chosen hymn without an introduction.
- INTRO will tell the Hymnal to play the hymn with a short introduction at the beginning.

**6. Temporarily stop the playback of a hymn.**

Push PAUSE. The hymn will be "on hold." Push the PAUSE button again to resume playback.

**7. Adjust the transposition, tempo, and volume of the performance.**

These parameters can be adjusted before or during playback.

**8. Completely stop the hymn and return to the main menu.**

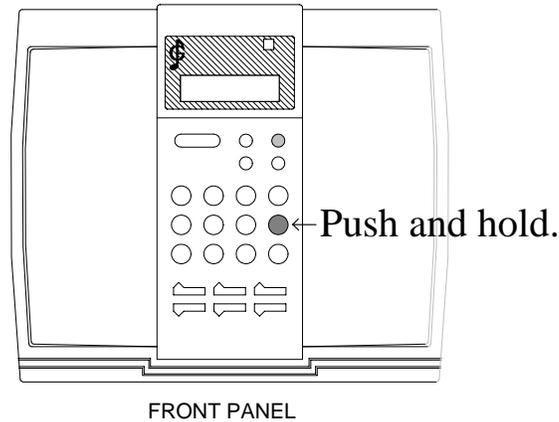
Press STOP whenever the Hymnal is playing or paused. The Hymnal will play this hymn from the beginning if restarted with PLAY or INTRO.

**9. Turn the unit off.**

Push the POWER button. The display will go blank. If the Hymnal is plugged into the wall, you will be able to turn it back on again with the remote control. However, if the Hymnal is running on battery power alone, it can be turned on from the front panel only. This is because it shuts off completely when running on the batteries to avoid draining them. When running on wall power, the remote sensor always remains active so that the Hymnal can be turned on with the remote control.

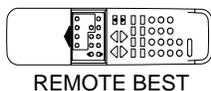
10. **Try the continuous play function. The Hymnal can play one verse of each hymn in the currently-selected book.**

In this example, listen to the Hymnal step through *The Presbyterian Hymnal* by turning the Hymnal on, pressing © (for “continuous”) and holding it down while pushing PLAY. This command will work only from the front panel of the Hymnal — not the remote control.

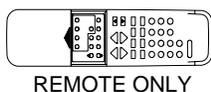


The continuous function will play every hymn in the book which you have selected, beginning with the one that you are on when you give the command. Enter the number of the hymn that you want to start with on the numeric keypad before giving the continuous play command.

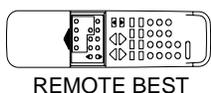
## ◆ 6 Advanced Functions



**SOLO PARTS** — Parts can be "soloed" or isolated and modified individually. First, choose a simple style. Push any single-digit style such as **STYLE 2**. Isolate the soprano part by pushing **SOPRANO**, followed by **SOLO**. Bring back the other three parts by pushing **SOLO** again. The other parts can also be added one by one after a part has been soloed. Add the Alto part to the previously soloed soprano by pressing the **ALTO** button.



**TEST THE METRONOME** — Try the metronome by pushing the **METRONOME** button located in the lower part of the remote. Turn the metronome off by pushing its button again.

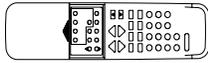


**BALANCE PARTS** — Sounds and their relative volume levels can be changed. Set Hymn 413 to **STYLE 2**. Select the soprano part with the **SOPRANO** button, choose the **BRASS** sound, and use the **VOLUME** control to turn the soprano's relative volume down to 95. Next, use **ALTO**, **CLARINET**, and **VOLUME** controls to have the alto play a clarinet at a volume of 90. Using the same method, assign **STRINGS** to the **TENOR** part at a volume of 80 and assign **PIPE ORG** to the **BASS** at a volume of 99.

You must adjust the volume fairly quickly after pressing the button of the part you want to adjust, **SOPRANO**, **ALTO**, **TENOR**, or **BASS**. Otherwise you will be adjusting the master volume of the entire Hymnal, not just the individual part. You can see on the display which volume is being affected.

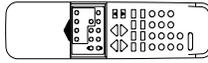
## Try out the Hymnal's memory features.

A complete service of up to ten hymns can be stored in special memory locations. The information stored in memory will be retained even if the Hymnal is turned off. This feature allows a whole service to be programmed in advance and then played back as required.



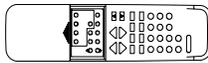
REMOTE ONLY

**CHOOSE THE MUSIC** — Store a few hymns in various memory locations by selecting a hymn, pressing **MEMORY**, entering the number of the location (0 to 9) where that hymn is to be stored, and pressing ⊕.



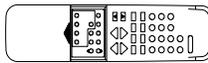
REMOTE ONLY

**PERFORM THE SERVICE** — Play back the hymns contained in some or all of the ten memory locations by pressing **MEMORY**, the location number of the first hymn to be recalled, and **PLAY**. If you do not enter a location, the Hymnal will start with the first location. Any empty locations will be skipped. After the first hymn has been played, the Hymnal will stop, move to the next memorized hymn, and wait until **PLAY** is pressed.



REMOTE ONLY

**RECALL A SPECIFIC HYMN** — Play the memorized hymn by pressing **MEMORY**, location number, and **PLAY**.



REMOTE ONLY

**CLEAR MEMORY** — Clear all memory by pressing **MEMORY** and ©.

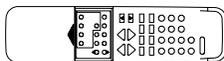
See the “Memory Functions” section for more detailed information.

## Change the way a hymn is performed

1. **Choose the number of verses you want the Hymnal to play.**  
The factory settings for the number of times that a verse is repeated is taken from the hymn book and can be changed using the **VERSES** function. Turn the Hymnal on, select hymn 123 (which will be from *The Presbyterian Hymnal* since that was the last hymn book requested) and tell the Hymnal to play two verses by pushing **VERSES**, 2, and ⊕ (Enter). Play the hymn.

2. **Choose whether or not to play an Amen.**

The Hymnal will only play an Amen when it is asked to, and only on the currently selected hymn. When the **AMEN** button (located on the right side of the remote) is pushed, the lower half of the display should read **Play Amen**. To disable the Amen function, push the **AMEN** button again. **No Amen** should appear in the display.



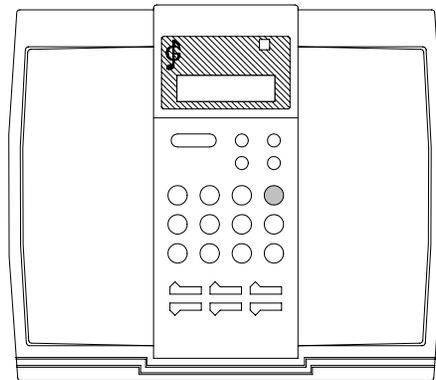
REMOTE BEST

3. **Begin the hymn with an introduction.**

Pushing the **STOP/INTRO** button after the hymn number has been selected will prompt the Hymnal to play a short introduction. Immediately following the introduction, the hymn itself will begin to play. Use this button instead of **PLAY** if you want an introduction.

4. **Alter the playback tempo.**

This can be accomplished with either the **TEMPO UP/DOWN** buttons or with the Tap-A-Tempo function. To use Tap-A-Tempo, tap the  $\oplus$  button on the front panel (not on the remote control) at the tempo you desire. The Hymnal will then follow along at the tapped rate. The Tap-A-Tempo function usually needs about 3 or 4 taps to accurately estimate the tap input.



FRONT PANEL

**5. Inserting beats—at the end of the INTRO, end of each VERSE, the end of the FINAL VERSE, and the last note of the AMEN.**

Some music directors may wish to pause a few beats between verses. To do this, just tell the Hymnal how many beats you want the pause to last. The Hymnal can insert pauses up to nine beats in length. The selected number of beats will be added to the last note of the INTRO, the last note of each verse (including the final verse), and also to the final note of the AMEN when the AMEN function is selected.

To accomplish this, simply add 5000 to the number of beats that you desire. For example, if you want to insert four beats, press ⑤, ①, ①, ④, ENTER ⊕. The Hymnal will then play the selected hymn, and insert three extra beats plus one beat of silence—for a total of four beats.

There will always be one beat of silence, for easier location of the next downbeat. So be sure to include the built-in one-beat rest in the total number of beats that you desire. This function will continue to affect all hymn selections until the Hymnal is instructed otherwise, even if it is turned off.

To return to zero beats being inserted, simply type ⑤, ①, ①, ①, ENTER ⊕.

**6. Change the performance style.**

When the Hymnal is first turned on, the hymn/performance style combination it selects is Hymn 1, Style 20. Looking at the Sound and Arrangement Preset Code tables in the "Performance Styles" section of this manual, we see that Sound Preset code 0 (the "0" in "20") will play all four parts with the Pipe Organ sound. Arrangement Preset code 2 (the "2" in "20") tells the Hymnal to play the soprano and alto at pitch in the MELODY/SOPRANO and ACC 1/ALTO parts, respectively. The tenor and bass, at pitch, will be combined on the ACC 2/TENOR part. Finally, the bass will be played an octave lower than written on the CONTRA/BASS part. Since a zero was selected by default for the third or highest of the three digits of the Performance Style code (technically "020"), style will not change with each new verse. Try other styles with other hymns (e. g. Style 135 on Hymn 305).

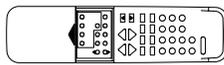
☞ See section 8 describing the "Performance Styles" for an explanation of the numbering system and a comprehensive list of the available styles.

## 7. Change the instrumentation.

Sixteen preset sounds can be directly accessed from the eight sound buttons in the BLUE section of the remote or from the eight shift-key combinations on the front panel. For example, the **PIANO/HARPSICHORD** button, pushed once, selects the piano sound. Push it again and the harpsichord will play.

- ☞ If you want to change the instrumentation, do so after you select the style. This is necessary because the style selects its own instrumentation.
- ☞ Any of the Hymnal's available sounds may be assigned to any of the four parts (Soprano, Alto, Tenor, and Bass) of a hymn. See step #9 "Change sounds and relative volume levels". See also the "Additional Remote Controls" section for more details.

## 8. Solo a part.

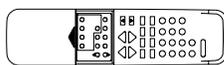


REMOTE BEST

This can be done most easily from the remote control, but can also be accessed through the front panel. Before soloing a part, it is a good idea to check and see what performance style has been selected. Style 5 (005) is a good choice (see step #6 above), because it has a different sound for each part. Knowing what style is in use will give you an idea of what to expect from the sound of the soloed part. To hear one of the parts by itself (e. g. alto), push **ACC1/ALTO** on the remote, followed by **SOLO**. The soprano, tenor, and bass parts will be muted, leaving the alto as the only part sounding. To bring back the other three parts, push **SOLO** on the remote. For more details, see **SOLO** in the "Front Panel Controls" and "Additional Remote Controls" sections.

Other parts can be added one by one after a part has been soloed. For example, to add the soprano part to the previously soloed alto, press the **SOPRANO** button.

## 9. Change sounds and relative volume levels.



REMOTE BEST

For example, set Hymn 500 to Style 4 (this will allow the changes to be heard clearly). Push **MELODY/SOPRANO** and choose the String Ensemble 1 sound with the **STRINGS/VIOLIN** button.

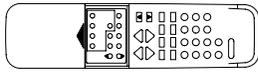
- ☞ You have a **maximum of five seconds** to push **STRINGS/VIOLIN** after pushing **MELODY/SOPRANO**. Otherwise the Hymnal will assume that nothing else is going to happen and return to the main menu.

String Ensemble 1 should now be playing the soprano part. Turn the soprano's relative volume down to 95 by pressing **MELODY/SOPRANO** and using the **VOLUME** controls:

Next, use **ACC 1/ALTO** to assign the Clarinet sound to the alto part at a volume of 90. Using the same method, assign Brass to the tenor part at a volume of 80 and assign Piano to the bass at a volume of 99.

- ☞ To quickly check the sound of a part, use the **SOLO** function. Press the **SOLO** button again to return to normal operation.

## Memory functions



REMOTE ONLY

### 1. Store a complete service of up to ten hymns in special memory locations.

Special attributes such as tempo, transposition, style, Amen ending, and number of verses will be remembered.

- Before storing the hymn number, select the hymn, set the various functions — e.g. number of verses, tempo, style, amen — to the desired values.
- To **store** this hymn in memory, press **MEMORY**, enter the number of the location (1, 2, 3, 4, 5, 6, 7, 8, 9, or 0), and press  $\oplus$ . If that memory location is already occupied, the new information will replace the old.

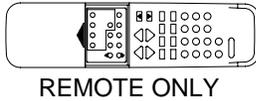
For example, select hymn 123, and then store it to memory location 6 with the following sequence: Press **MEMORY**, type  $\odot$  on the numeric keypad, then press **ENTER**.

- To **play** the hymn located in a particular location, press **MEMORY**, location number, and **PLAY** (or **INTRO**).

In order to play the hymn we just stored in the above example, press **MEMORY**, type  $\odot$  on the numeric keypad, then press **PLAY**.

- To peek into the contents of a location, press **MEMORY**, location number, and **MEMORY** again.
- To clear a location, press **MEMORY**, location number, and  $\odot$ . To empty **ALL** of the locations, press **MEMORY** and  $\odot$ .

2. **Play back the hymns contained in all ten memory locations in sequence.**

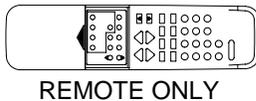


Press MEMORY and PLAY. Any empty locations will be skipped. After the first available hymn has been played, the Hymnal will stop and wait until PLAY is pressed before starting the next hymn in the sequence. The first hymn played will be the one stored in memory location 1. The Hymnal will then step through locations 2, 3, 4, 5, 6, 7, 8, 9, 0, and then begin the cycle again at location 1.

- To begin memory playback at a specific memory location in the loop, press MEMORY, the location number, and PLAY.

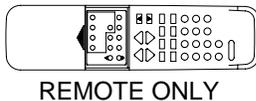
The information stored in memory will be retained even if the Hymnal is turned off. This feature allows a whole service to be programmed in advance and then played back as required.

3. **Play back the hymns contained in all ten memory locations in sequence WITHOUT STOPPING BETWEEN HYMNS (CONTINUOUS PLAY).**



Press MEMORY, DEMO, and then PLAY. Any empty locations will be skipped. After the first available hymn has been played, the Hymnal will immediately start the next hymn in the sequence. The first hymn played will be the one stored in memory location 1. The Hymnal will then step through locations 2, 3, 4, 5, 6, 7, 8, 9, 0, and then begin the cycle again at location 1, **playing forever** or until you press STOP. This feature is useful for setting up a series of hymns to be used for prelude or background music.

4. **Play back the hymns contained in all ten memory locations in sequence WITHOUT STOPPING BETWEEN HYMNS, WITH INTROS.**



Press MEMORY, DEMO, and then INTRO. Any empty locations will be skipped. After the first available hymn has been played with an introduction, the Hymnal will immediately start the next hymn in the sequence, also with an introduction. The first hymn played will be the one stored in memory location 1. The Hymnal will then step through locations 2, 3, 4, 5, 6, 7, 8, 9, 0, and **will then stop**. This feature is useful for setting up a series of hymns to be used for congregational singing where it would be inconvenient to pause between hymns.

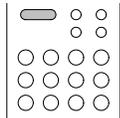
## ◆ 7 Control Descriptions

This is a listing of the control functions and where they can be found. The operation of the shift-key combinations are explained below under “Additional Front Panel Controls”.

Function name	Front panel	Remote control
Amen	Yes (Shift-key function)	Yes
Continuous music	Yes (Shift-key function)	No
Demo	Yes (Shift-key function)	Yes
Hymn Up / Down	No	Yes
Memory	No	Yes
Metronome	No	Yes
Play/Pause	Yes	Yes
Power Off	Yes	Yes
Power On	Yes	Yes if running on the AC adapter. No if running on battery power.
Range (Juke box)	Yes (Shift-key function)	No
Solo	Yes (Shift-key function)	Yes
Style	Yes	Yes
Stop/Intro	Yes	Yes
Sound selection	Yes (Shift-key function)	Yes
Transpose	Yes	Yes
Tempo	Yes	Yes
Volume	Yes	Yes
Verses	Yes	Yes

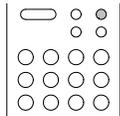
### Front Panel

#### POWER



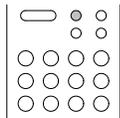
Turns the unit on and off. If the Hymnal is running on battery power alone, the front panel **POWER** switch will be the only way to turn it on — the remote's **POWER** switch cannot turn on a Hymnal that is running on the battery. **If the unit is running on battery power and sits unused for 10 minutes, it will automatically shut off.**

#### PLAY/PAUSE



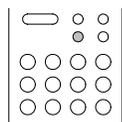
Begins playing a hymn (without an introduction) **OR** pauses a hymn that is playing. To resume playing a paused hymn, press this button again.

#### STOP/INTRO

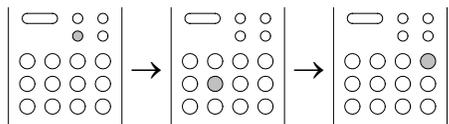


Ends a hymn performance **OR** plays an introduction (if used to begin a hymn).

## VERSES



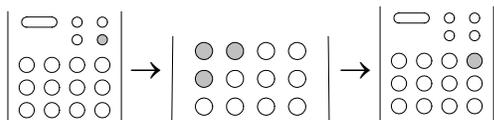
Changes the number of hymn verses played.



For example, to have the selected hymn play five verses, push **VERSES**, **5** on the numeric keypad, and then **ENTER**. The LCD will read “Number of Verses is 5” and then switch back to its normal display.

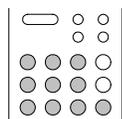
## STYLE

Allows a new accompaniment style to be applied to a hymn.



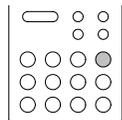
For example, to apply Style 142 to the currently selected hymn, push **STYLE**, then **1**, **4**, and **2** on the numeric keypad, and then **ENTER**. Details on all the available styles can be found in Section 8 - “Performance Styles”.

①, ②, ③, ..., ⑩  
(Numeric keypad)



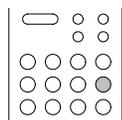
Allows hymn, style select, and verse numbers to be entered directly.

⊕  
(Enter or Tap-a-Tempo)



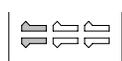
Either enters the displayed value or serves as the Tap-a-Tempo input button. You can call up a hymn using the numeric keypad, followed by **ENTER**. The hymn will wait to start until you press **PLAY**.

©  
(Clear)



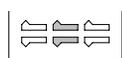
Clears the current keypad entry from memory.

TRANSPOSE ↑ & ↓



Changes the key up or down in half-step increments. The range of transposition is up six half-steps and down five half-steps.

TEMPO ↑ & ↓



Increases or decreases the playback tempo.

VOLUME ↑ & ↓



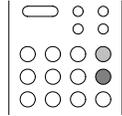
Increases or decreases volume levels.

## Additional Front Panel Controls

These are "shift-key"-operated controls. That means that one button — the shift key — should be pushed and held down while another button is pushed in combination with it. Shift-key illustrations in this manual depict the shift key as the darker button.

### DEMO

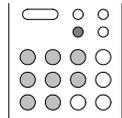
© (held down) and ⊕



Plays a factory-chosen set of hymns and styles to demonstrate the Digital Hymnal's capabilities. Push down and hold the © button while pushing ⊕.

### Sound buttons

VERSES (held down) and  
①, ②, ③, ④, ⑤, ⑥,  
⑦, or ⑧

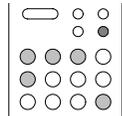


Allows one of the 16 sounds listed on the remote to be selected. Each of the eight number buttons accesses two sounds. Push once and the first sound is selected. The name of the sound will appear in the display. Push again and you'll get the second sound associated with that button.

☞ Sounds other than those listed on the remote control can also be accessed. The available sounds are listed on the Sound on page 32. See the explanation under "SOLO" in the Performance Styles section on page 31.

### SOLO

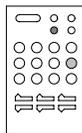
STYLE (held down) and  
① (MELODY/SOPRANO),  
② (ACC 1/ALTO),  
③ (ACC 2/TENOR),  
④ (CONTRA/BASS), or  
⑤ (SOLO OFF)



SOLO is used to select one of the parts — SOPRANO, ALTO, TENOR or BASS — to either isolate a part or to bring in parts one at a time. For more details concerning the SOLO function, see the SOLO in the "Remote Control" section.

### AMEN

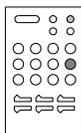
VERSES (held down) and  
©



Turns the Amen function on and off. It only affects the performance of the currently selected hymn.

## CONTINUOUS MUSIC

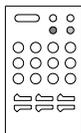
© (held down) and PLAY/PAUSE



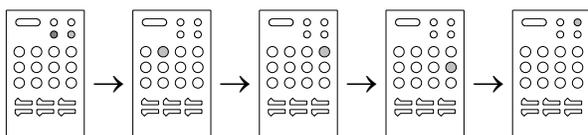
Plays one verse of each of the hymns in the selected hymn book in numerical sequence

## RANGE MODE

VERSES (held down) and STYLE, followed by the starting hymn #, ⊕, ending hymn # and PLAY.



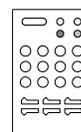
Plays one verse of each of the hymns in the selected hymn book in numerical sequence. This feature is useful for playing background music. At Christmas time, use the Range Mode for playing the Christmas hymns (hymns 1 through 115 in the master list).



For example, to play hymns 2 through 6 in a given hymn book, hold down the **VERSES** button while pressing **STYLE** to get into Range mode. Then push 2, ⊕, 6 and **PLAY**. The Hymnal will play the available hymns between 2 and 6. When one verse of the last available hymn has been played, the Hymnal will then stop.

## RANGE REPEAT MODE

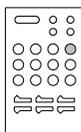
VERSES (held down) and STYLE, followed by the starting hymn #, ⊕, VERSES followed by the # of repeats, ⊕, ending hymn # and PLAY



Allows you to repeat the range of hymns selected with RANGE MODE as many times as desired. While selecting range mode, right after selecting the starting hymn number, **VERSES** will allow you to enter how many times you want to repeat the range of hymns.

## JUKE BOX MODE

Turn on the Digital Hymnal Press ⊕ before pressing any other key.



Plays one verse of each of the hymns in the selected hymn book in numerical sequence starting with hymn 1. This feature is useful for playing background music. See also RANGE MODE, above.

## Remote Control

### POWER

If the Hymnal is plugged into the wall power adapter, this turns the unit on and off. However, if the Hymnal is running on battery power alone, the remote's POWER switch will only turn the Hymnal off, not on. This is due to the fact that a Hymnal running on battery power exclusively is turned completely off when its power is switched off. On the other hand, when the Hymnal is receiving power from the wall power DC adapter, it continues to run (at a reduced level) when switched off. In other words, its power function operates very much like the "Instant On" option found on many television sets.

☞ **If the Hymnal is operating on battery power and sits unused for 10 minutes, it will automatically shut off.**

☞ **This section of the remote is identical to and operates the same as the front panel.** ☞

### PLAY/PAUSE

Begins playing a hymn (without an introduction) OR pauses a hymn that is playing. To resume playing a paused hymn, press this button again.

### STOP/INTRO

Ends a hymn performance OR plays an introduction (if used to begin a hymn).

①, ②, ③, ... , ⑩  
(Numeric keypad)

Allows hymn, style select and verse numbers to be entered directly.

⊕  
(Enter)

Enters the displayed value. Since most changes are automatically registered after five seconds, pressing ⊕ is only required when the change needs to be registered right away.

⊙  
(Clear)

Clears the current keypad entry from the display.

TRANSPOSE ↑  
& ↓

Changes the key up or down in half-step increments. The range of transposition is up six half-steps and down five half-steps.

TEMPO ↑ & ↓

Increases or decreases the playback tempo.

VOLUME ↑ & ↓

Increases or decreases volume levels. Normally it is used to control master volume, but the volumes of individual parts can be adjusted as well. This enables you to change the balance between the various parts. For more details, see the explanation under "SOLO" in section 8.

↵ **Descriptions of buttons found only on the remote begin here** ↲

Sound buttons

Allows one of the 16 front-panel sounds to be applied to any combination of the four parts. Each of the eight buttons accesses two sounds. Push once and the sound listed above the button is selected. Push again and you'll get the sound listed below the button.

☞ Sounds other than those listed on the remote control can also be accessed. See the explanation under "SOLO" in the "Additional Remote Controls" section.

## Additional Remote Controls

VERSES

Changes the number of hymn verses played.

For example, to have the selected hymn play 124 verses, push VERSES and then 124 on the numeric keypad.

**MEMORY**

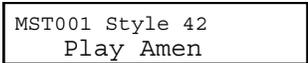
Links a series of hymns together and stores that series in memory. A sequence of up to 10 hymns can be created. To play a memorized series of hymns, push **MEMORY** and then **PLAY**. To erase memory, push **MEMORY** and then **©** (Clear). For more details, see the Memory Functions section.

**METRONOME**

Turns the metronome on and off. Change the metronome's volume by using the volume controls immediately after pushing **METRONOME**.

**AMEN**

Adds an Amen to the end of the last verse of the selected hymn.



Unless the Hymnal is asked to, it will not play an Amen. When the **AMEN** button is pushed, the display indicates that the Amen function is on and an Amen is added to the end of the hymn.

**HYMN UP /  
DOWN**

Steps up through the hymns one at a time in the order of the selected hymn book.

**DEMO**

Plays a factory-chosen set of hymns to demonstrate the Digital Hymnal's capabilities.

**STYLE**

Allows a new accompaniment style to be applied to a hymn.

For example, to apply Style 142 to the currently selected hymn, push **STYLE** and then 1, 4, and 2 on the numeric keypad.

**SOLO**

The **SOLO** and Orchestration buttons are explained in Section 8.

## ◆ 8 Performance Styles

A number of built-in performance style options can be applied to hymn performances using a one-, two- or three-digit style code. The position of each digit in the style code controls one aspect of the hymn's performance.

By "position" we mean the location of the digit within the number as it is written. For example, the number "743" has a "7" in the "hundreds place", a "4" in the "tens place", and a "3" in the "ones place". The significance of each digit is explained in the tables on the next two pages. The last digit of the style to be entered into the Hymnal (in this case the "3" in the ones-place of the number 743) selects the sound combination. If there are two digits then the next-to-last digit (the "4" in the tens place) controls the choice of arrangement. If there are three digits then the first digit (the "7" in the hundreds place) selects the multi-verse choice. This numbering system was devised to make it easy to explore and recall related style groups. Exceptions in the 80\_ and 90\_ series are noted in the Multi-verse and Drums table. If you press **STYLE**, **Ⓢ**, **ENTER** the Hymnal assumes you want Style 002.

The chosen option or options are applied when the **STYLE** button is pushed and the codes are entered on the numeric keypad or remote control. Please take a look at the **SOUND** Preset code and **ARRANGEMENT** Preset code tables listed on the next two pages to become familiar with the options that are available.

Call up hymn MST 1711 and try the following three examples:

1. Enter "0" to have the pipe organ play all four parts at pitch. This example uses **SOUND** Preset code 0. Choose styles ending with "0" (i.e. 10, 100, 220) if you want to play hymns using only the pipe organ sound.
2. Entering the two-digit style "32" has two effects. The "3" in the tens place selects the arrangement, with the melody up an octave, the soprano and alto playing the **ACC. 1** (Accompaniment 1) part, the tenor and bass playing **ACC. 2**, and the **BASS** down an octave. The "2" in the ones place sets the tone of the sounds the voices use: flute for the melody, choir on **ACC. 1**, strings on **ACC. 2**, and organ for the **BASS**. Other styles can be related in different ways, depending on which digit they have in common. For example, Style 30 uses the same transpositions (because it has a "3" in the "tens place", the same as style 32) but plays the parts using the organ sound (because it has a "0" in the "ones place"). Style 22 plays the parts with different transpositions (because it has a "2" in the tens place instead of a "3") but uses the same flute/choir/strings/organ sounds (because it has a "2" in the "ones place", the same as style 32).
3. Three-digit styles select combinations of tone settings, background styles, ritards, and transpositions. Enter "642" to have the flute play the melody, accompanied by choir, drums, and pipe organ. The performance will gradually slow down ("ritard") in the final measures of the last verse. Looking at each digit one by one in style 642 tells us that **MULTI-VERSE** Preset code 6, **DRUM** Preset code 4, and **SOUND** Preset code 2 have been selected.

The performance styles are summarized in the three following tables.

<b>SOUND COMBINATION PRESET CODES</b> - select the sound that each of the four parts plays.				
Last or only digit entered (“ones place”)	Melody/Soprano	Acc. 1/Alto	Acc. 2/Tenor	Contra/Bass
0	pipe organ	pipe organ	pipe organ	pipe organ
1	tubular bells	glockenspiel	vibes	electric piano 2
2	flute	choir aahs	string ensemble	pipe organ 3
3	violin	harpsichord	clarinet	flute
4	oboe	flute	clarinet	bassoon
5	electric piano 1	choir aahs	string ensemble	pipe organ
6	flute	slow B3 organ	piano 1	tuba
7	piano 1	pipe organ 1	piano 1	piano 1
8	electric piano 2	warm pad	elect piano 1	string bass
9	guitar	harp	folk guitar	string bass

<b>ARRANGEMENT PRESET CODES</b> - define the way that the four parts are performed.				
Next-to-last digit entered. (“tens place”)	Soprano/Melody	Alto/Acc. 1	Tenor/Acc. 2	Contra/Bass
0 _	Four-part hymn style: Soprano	Alto	Tenor	Bass
1 _	Melody up an octave	Soprano and Alto	Tenor	Bass
2 _	Soprano	Alto	Tenor and Bass	Bass down an octave
3 _	Melody up an octave	Soprano and alto	Tenor and Bass	Bass down an octave
4 _	Melody up an octave	All four parts	All four parts	Bass down an octave
5 _	Melody up an octave	All four parts	Arpeggiated chords	Bass down an octave
6 _	Melody in octaves	All four parts	Arpeggiated chords	Bass in octaves
7 _	Melody in octaves	All four parts	All four parts	Bass in octaves
8 _	Melody at pitch	All four parts	All four parts	Bass down an octave
9 _ Organs-only mode. In this mode, the last digit selects one of ten different organs that range from very bright to sedate.	Four-part hymn style: Soprano  Use with an upper digit of 2 (the 2 in style 294) to change the organ sound with each verse of the hymn. Start with a soft organ, and end the last verse with a full organ.  For example, if you want 4 verses	Alto  with an intro, then start with Style 294, which will play four verses ending with style 290, which has a very bright pipe	Tenor  organ. If you do not want the ending to be so full sounding, you can start higher, with Style 297, in which case the Hymnal will end up with Style	Bass  293. The 3 in Style 293 specifies a more sedate organ than the 0 in Style 290.

☞ The last digit of the arrangement style (whose place is held by “\_”), is chosen from the SOUND preset codes in the first table.

## MULTI-VERSE and DRUMS PRESET CODES

Prompt the Hymnal to change the performance of a hymn from verse to verse and add drums in some cases.

First of three digits entered. (The last two digits will be one of the Arrangement codes listed above.)	Operations applied to all four parts.			
1 _ _	Adds a ritard at the end of the last verse.			
2 _ _	Begins by playing the style chosen with the last two digits of the code. Then, beginning with the second verse, the last digit of the style number decreases at the beginning of each verse. For example, style 213 becomes style 212. A ritard is added at the end of the last verse. Note: 210 becomes 219, not 209. The first and second digits never change.			
3 _ _	Randomly changes styles from verse to verse. This facilitates an exciting variety of hymn performance.			
4 _ _	Do the same as 1, 2, and 8 combined.			
5 _ _	Do the same as 1, 2, and 9 combined.			
6 _ _	Do the same as 1 and 8 combined.			
7 _ _	Do the same as 1 and 9 combined.			
8 _ _ Drums with the hymn	Melody at pitch	All four parts	Drums	Bass down an octave
9 _ _ Popular styles that use drums in the arrangement.	Melody instrument, played at the original pitch. Uses the melody Sound Preset Code.	Background, Drums, Bass. Unless otherwise indicated, block chords are played with the background sound.		
90_	Melody sound selected by lowest digit	Electric piano background, Electric bass.		
91_	Melody sound selected by lowest digit	Arpeggiated electric piano background, Acoustic bass.		
92_	Melody sound selected by lowest digit	Harp background, Acoustic bass.		
93_	Melody sound selected by lowest digit	Jazz guitar background, Electric bass.		
94_	Melody sound selected by lowest digit	Electric piano background, Electric bass.		
95_	Melody sound selected by lowest digit	Electric piano background, Electric bass.		
96_	Melody sound selected by lowest digit	Jazz guitar background, Electric bass.		
97_	Melody sound selected by lowest digit	Arpeggiated electric piano background, Electric bass.		
98_	Melody sound selected by lowest digit	Electric guitar background, Electric bass.		
99_	Melody sound selected by lowest digit	Arpeggiated electric guitar background, Electric bass.		

☞ Certain styles may not work well with specific hymns. Let your ear be your guide!

### ☞ **Changing the Default Style:**

To change the default style (the style that comes whenever you power up the Digital Hymnal), just select the desired style, press the STYLE button, 1000 on the keypad, then ENTER ⊕. The LCD display on the Hymnal will confirm your selection. The selected style will be the new default style after turning the Digital Hymnal off and on.

## SOLO

Allows the values associated with the four parts to be modified. SOLO is used to select one of the parts — SOPRANO, ALTO, TENOR, or BASS — to either isolate a part or to bring in parts one at a time (see page 16).

Orchestration
---------------

MELODY/SOPRANO,  
ACC 1/ALTO,  
ACC 2/TENOR,  
CONTRA/BASS

The sounds available in the Hymnal are listed in the Gulbrandsen Digital Hymnal Sound List (see the following chart). These sounds can be assigned to any of the four parts in any hymn, allowing the user the freedom to create new orchestrations. To assign a sound to a part, select the part by pushing one of the part buttons — SOPRANO, ALTO, TENOR, or BASS, push any one of the sound buttons located in the BLUE area of the remote, pick a sound from the list below and enter its number. For example, to assign Pipe Organ 2 (sound # 97) to the Alto part, press ALTO, then press any sound button, ⑨, ⑦, and ⊕ (Enter).

Change the volume of a part

Change the relative volume of the melody by pushing MELODY and then using the VOLUME ↑ & ↓ buttons to change the melody's relative loudness in the "mix" among the four parts. (If more than five seconds elapse between pushing MELODY and using the volume controls, the Hymnal will cancel the MELODY command and apply the volume changes to the master volume.). See page 13 for more information.

Gulbransen Digital Hymnal Sound List					
0	piano 1	43	contrabass	86	elect piano 3
1	piano 2	44	tremolo strings	87	fast B3 organ
2	piano3	45	pizzicato strings	88	sp1 fantasia
3	honky-tonk piano	46	harp	89	sp2 warm pad
4	electric piano 1	47	timpani	90	sp3 poly synth
5	electric piano 2	48	string ensemble 1	91	choir
6	harpsichord	49	string ensemble 2	92	organ variation 14
7	clavichord	50	string ensemble 1	93	organ variation 15
8	celesta	51	string ensemble 2	94	organ variation 16
9	glockenspiel	52	choir aahs	95	organ variation 17
10	music box	53	voice oohs	96	organ variation 18
11	vibraphone	54	synth voice	97	pipe organ 2
12	marimba	55	string ensemble 1	98	pipe organ 3
13	xylophone	56	trumpet	99	pipe organ 4
14	tubular bells	57	trombone	100	organ variation 10
15	dulcimer	58	tuba	101	organ variation 11
16	jazz organ	59	muted trumpet	102	organ variation 12
17	percussive organ	60	french horn	103	organ variation 13
18	rock organ	61	brass section	104	sitar
19	pipe organ	62	synth brass 1	105	banjo
20	reed organ	63	synth brass 2	106	shamisen
21	accordion	64	soprano sax	107	koto
22	harmonica	65	alto sax	108	kalimba
23	tango accordion	66	tenor sax	109	bagpipes
24	classical guitar	67	baritone sax	110	fiddle
25	folk guitar	68	oboe	111	shantai
26	jazz guitar	69	english horn	112	tinkle bell
27	classical guitar	70	bassoon	113	agogo
28	classical guitar	71	clarinet	114	steel drums
29	alto sax	72	flute	115	wood blocks
30	alto sax	73	flute	116	taiko
31	classical guitar	74	small organ 1	117	melodic toms
32	string bass	75	small organ 2	118	organ variation 1
33	fingered elec. bass	76	small organ 3	119	organ variation 2
34	elec. bass picked	77	small organ 4	120	organ variation 3
35	fretless bass	78	small organ 5	121	organ variation 4
36	classical guitar	79	small organ 6	122	organ variation 5
37	classical guitar	80	small organ 7	123	organ variation 6
38	sp3 poly synth	81	small organ 8	124	organ variation 7
39	slow B3 organ	82	small organ 9	125	organ variation 8
40	violin	83	small organ 10	126	organ variation 9
41	viola	84	elect piano 1	127	drums
42	cello	85	elect piano 2		

See the Orchestration section on the previous page for an explanation of how to use these sounds.

## Using the Performance Style Presets

The four Style Preset Buttons (*see illustration on page 5*) allow quick access to some of the most commonly used performance styles. Each of these buttons toggle between the two styles shown above and below the button. For example, pressing the button marked “Carillon” will automatically select a Carillon style without making the user go through the process of entering the appropriate code. Pressing this same button again will then switch to the Orchestra style.

As the style is selected, the corresponding preset code for that style is displayed on the screen. These are the same preset codes which we discussed in the last section. If you are interested in finding out which style is being used by the Preset Buttons, you can simply look up the code which appears on your screen in the charts on pages 29-30.

## ◆ 9 Miscellaneous Items

### Automatic shut-off.

If left unattended for more than ten minutes on battery power, the Hymnal will automatically shut itself off. To turn it back on, push the **POWER** switch on the front panel. **The POWER switch on the remote will not turn on the Hymnal when it is running on battery power.** This is because it shuts off completely when running on the batteries to avoid draining them. When running on wall power, the remote sensor always remains active so that the Hymnal can be turned on with the remote control.

### Hymn unavailable.

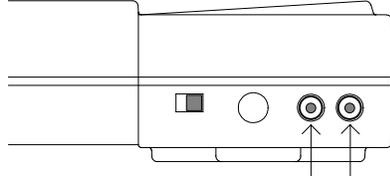
When a hymn number is entered into the Hymnal, there are two possible responses. First, it may say "Hymn \_\_ selected," which means that it's business as usual. Second, it may say "Hymn is not available," which means that the hymn number is not contained in memory. This will happen where a text without music or without harmony (melody only) is listed in a hymn book. This will also happen when the copyright release was not granted by the publisher or copyright holder. About 5% of the hymns from the hymnbooks that are referenced by the Digital Hymnal have not been given copyright clearance.

## ◆ 10 Connecting External Devices

The Digital Hymnal is designed principally for use with a stereo amplifier or public address system. The internal speakers are for convenience and portability. To get the highest-quality sound, plug the Hymnal into a large speaker system. A more portable bass boost can be attained by hooking the Gulbransen Wedge Woofer to the Hymnal.

### 1. Playing the Hymnal through an external amplifier.

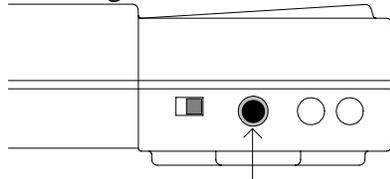
Use a standard RCA stereo cable to attach the Hymnal outputs to the Auxiliary inputs of most stereo amplifiers.



☞ If you have connected the Hymnal to an external amplifier, you may want to switch off the internal speakers with the speaker switch. If you are using the Gulbransen Wedge Woofer as an external bass booster, leave the internal speakers on.

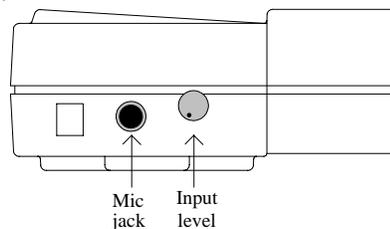
### 2. Listening to the Hymnal through headphones.

Plug headphones into the headphone jack. **Make sure that the Hymnal's main volume is turned down before pushing PLAY.** Once playback has begun, slowly turn up the volume to a reasonable listening level.



### 3. Plugging a microphone into the Hymnal.

Plug a microphone into the microphone input jack. **Make sure that the Hymnal's MIC VOLUME control is turned all the way down (counter-clockwise) before plugging in the mic.** If the volume is turned up — particularly if the Hymnal is connected to an external amplifier — feedback (a nasty squeal or howl) can be generated by the interaction between the microphone and the speakers. The signal from the microphone goes through the Hymnal and out its outputs even when the unit is turned off while running on wall power.



## ◆ 11 Specifications

Number of songs available	Approximately 2300 core reference tunes cover about 5000 texts.
Sounds available	Refer to the table on page 32.
Number of sound buttons	8, containing 16 factory presets: Choir 1/Choir 2, Clarinet/Oboe, Strings/Violin, Piano/Harpsichord, Vibes/Harp, Flute/Brass, Pipe Organ/Organ 2, Organ 3/Organ 4
LCD display size	32 characters
Main panel controls	Power, Stop/Intro, Play/Pause, Numeric keypad, Enter/Tap-A-Tempo, Clear, Sound Select (shift-key access), Transpose, Tempo, Volume, Verses, Style, Demo (shift-key access), Solo (shift-key access)
Remote controls	Power (Off only when running on battery power), Demo, Stop/Intro, Play/Pause, Numeric keypad, Enter/Tap-A-Tempo, Clear, Style, Verses, Amen, Memory, Sound Select (eight buttons), Style Preset (four buttons), Hymn Up/Down, Transpose Up/Down, Tempo Up/Down, Volume Up/Down, Solo, Metronome, Yes (not implemented at this time), No (not implemented at this time), Orchestration (four buttons)
Amplifier output	12 W total (6 W per channel)
Built-in speakers	Two 3" full-range
Top panel controls and connections	Audio output (Left & Right), Stereo headphone output, Internal speaker on/off switch, Microphone input level control, Microphone input jack, wall power DC adapter jack
Battery (optional)	Eight rechargeable 1.2 V NiCad cells (9.6 V total)
Standard equipment	Wall power DC adapter, Stereo RCA cable, Remote control
Options	NiCad Battery, External Speaker, Carrying Case

## ◆ 12 Troubleshooting

- Nothing happens.
- Make sure the wall power adapter is firmly connected to the Hymnal and plugged into a working AC outlet.
  - Check the wall power DC adapter and see that it is rated at the proper voltage (110 VAC or 220 VAC) for the AC power available in your community.
  - If the Hymnal is running on battery power only, it must be turned on with the **POWER** switch on the front panel. If the Hymnal is running on battery power alone, the remote's **POWER** switch will only turn the Hymnal off, not on. This is due to the fact that a Hymnal running on battery power exclusively is turned completely off when its power is switched off. On the other hand, when the Hymnal is receiving power from the wall power adapter, it continues to run (at a reduced level) when switched off. In other words, its power function operates very much like the "Instant On" option found on many television sets.
- The display lights up but that's it.
- Re-check the wall power adapter and turn the unit off and on again. Try unplugging the power cord from the Hymnal and plugging it back in after 10 seconds.
- The display is OK but there's no sound from the internal speakers.
- Make sure that the **SPEAKER** switch on the top of the unit is turned on.
- It plays but it sounds bad.
- Make sure the wall power adapter is firmly connected and that the wall power voltage is correct for the DC adapter.
  - Turn the unit off and on.
- The remote control won't work.
- Make sure that a clear line-of-sight path exists between the remote and the main unit.
  - Bright fluorescent light or bright daylight will cut the effective range of any device that uses an infra-red remote control. If this is a problem, shield the Hymnal from the source of the bright light.
  - Press each button completely, pausing slightly between each entry.
  - Replace the batteries in the remote control.
  - The **POWER** switch is being use to turn the Hymnal on while it is running on battery power only. See the explanation under "Nothing happens" above. When running only on battery power, the Hymnal must be turned on with the **POWER** switch on the front panel.
- The Remote Control buttons trigger the wrong functions.
- Using the numeric keypad, type in the following code: ⑨⑦⑩② then press **ENTER**. Since some Hymnals ship with a slightly different remote control, this command is used to tell the Hymnal exactly which remote control you are using.
- Hymn doesn't play.
- If the display reads "Hymn is not available," the hymnal does not have that hymn in memory.

## Common Questions and Answers

**Q:** How long will my Hymnal play on its optional NiCad battery?

**A:** All Hymnals are tested for 45 minutes on battery before they leave the factory at a volume level of 29. One hour is almost the maximum play time at a low volume level—less at higher volume levels. NiCad Batteries sometimes develop a memory that limits the charge they will hold. To prevent this, a good idea is to fully discharge them from time to time. Play the Hymnal on its battery until it runs down. Then plug it into the wall transformer for three hours to charge it back up. Turn the Hymnal off while charging.

**Q:** Why don't some of the hymn numbers play?

**A:** The Digital Hymnal will not play any hymn number that is a text response or reading (no music), a melody only (no harmony parts), or a hymn for which the owner has not given permission.

**Q:** If I set the Hymnal for continuous play of one verse of all the hymns in my hymn book will it (a.) play all of them? (b.) play more than one verse?

**A:** The Hymnal will indeed play exactly one verse each of the hymns in the selected hymn book. It will skip any hymn number that won't play (see the previous question).

**Q:** I have selected an orchestration that I really like. It is Soprano-Vibraphone (8), Alto-Flute (92), Tenor-Strings (48) and Bass-Pipe Organ (97). If I use this with style 2 can I set the Hymnal to remember this style after I turn the power off? Can I have it choose this style (default) when I turn it on?

**A:** No. A personalized style cannot be saved. But a style selected with the style button can become the new default style, if desired. To make the current style the default style, press STYLE, 1000, ENTER. The current style will be the new default style after the power is turned off and on.

**Q:** My church has a CCLI license. Could you make available some of the few hymns in my hymn book that are unavailable?

**A:** No. We're sorry. Gulbransen must get permission from the owner of the song before it can be included in the Digital Hymnal. Questions concerning CCLI can be answered by calling them directly at 800 234-2446.

**Q:** After I put up to 10 hymns in memory, may I play them without stopping in-between hymns?

**A:** Yes, use either of the commands: MEMORY-DEMO-INTRO or MEMORY-DEMO-PLAY. The Hymnal will play them as memorized. You may want to transpose some of them before you save them in memory if you want them all in one key. For details on how to use these commands see the discussion on Memory Functions in the Advanced Function section.

**Q:** I used the solo button to listen only to the tenor part, but the Hymnal just stopped playing the soprano and alto. The tenor and bass still played. Did I do something wrong?

**A:** No. But in the default style 20, which is what the Hymnal plays if you don't change styles, the Melody /Soprano part plays the soprano, the ACC1/Alto part plays alto, the Contra/Bass part plays bass down one octave, and the ACC2/Tenor plays tenor AND bass at pitch. To really hear the parts separately, select a single-digit style. These are uncomplicated styles, and when you solo them you will hear an individual part very clearly. For instance, press STYLE 4. Then press SOLO ALTO and you will hear the flute playing the alto part as written. Another way to listen to a part is to select a uniform single digit style such as style 0 and then place the vibraphone on the part you want. Example: Press STYLE, 0, ENTER, then ALTO, VIBES, and the vibes will be easy to hear playing the alto part while all the other parts play pipe organ.

**Q:** I like using the 200 style series because the sounds change automatically when the verses change. How do I make sure that the last verse is pipe organ on all parts?

**A:** The simplest way is with Style 0, which is all pipe organ. The last digit of the 2\_\_ Style series decreases automatically after the introduction and after each verse. For example, if you want 4 verses to play then enter hymn number, STYLE 224, VERSES 4, and then press INTRO. The style will change after the intro (to 223) and after each verse (221) and end on Style 200. If you do not want an intro then enter hymn number, STYLE 223, VERSES 4, and then press PLAY.

You can take advantage of the 9\_ arrangement series, which is a group of organs arranged from very bright to sedate. For example, if you want 4 verses with intro then start on Style 294, which will play the 4 verses ending on Style 290, with a very bright organ. If you do not want the ending to be so full sounding you can start higher, on STYLE 297, in which case the Hymnal will end up on Style 293.

For further assistance

If you are still having difficulties, please call our **Customer Service Help Line** at 1-800-247-6557 or e-mail us at [qrssupport@qrsinc.com](mailto:qrssupport@qrsinc.com)

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