

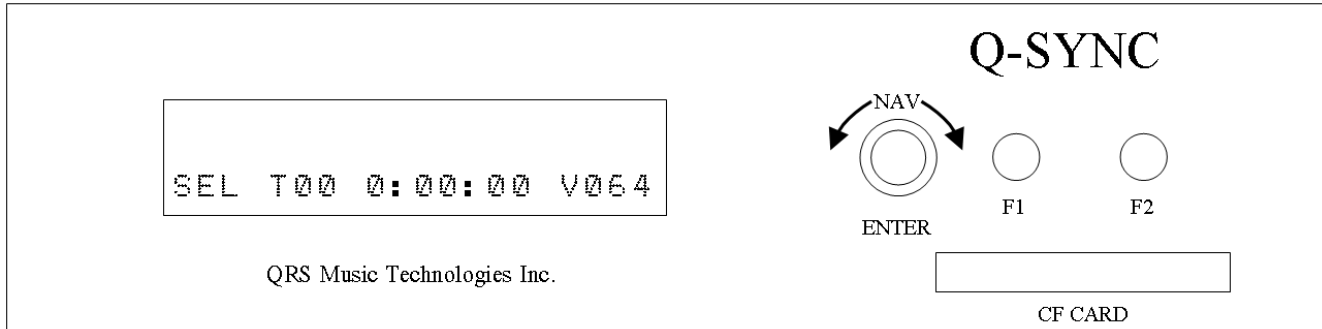


Q s y n c

Owner's Manual

Manual #OM52030

Version 1.16



Thanks for purchasing the QRS Music Technologies Qsync. The Qsync is a brand new technology that adds tremendous functionality and fun to your Pianomation player system. With a Qsync connected to your QRS player system and a standard DVD player* you will be able to take advantage of an exclusive and exciting technology which allows your piano to play in perfect synchronization with selected DVD concerts and movies. You will see and hear your piano reproducing the piano performance as it is being viewed on your video screen.

Once connected into your system you can simply insert a DVD title from our QRS music library, select the corresponding file in Qsync and start the DVD playing.

The Qsync uses convenient and common compact flash card technology which holds the piano music content and also allows for easy system updates as new functionality becomes available.

Several features in Qsync allow for flexible integration into your entertainment system such as 38khz serial input port for control of Qsync from a media server or home automation system. Stereo audio line inputs and outputs with input gain, volume, bass, treble controls and integrated piano volume control allow for single point volume setting. SPDIF through so you don't lose connectivity of single output SPDIF signal in your system.

Reading the user guide will introduce you to many other features, so please take time to read the users guide thoroughly so you understand all the features of Qsync so you can take full advantage of it's functionality.

* A DVD player with an SPDIF or Coaxial Audio Output is required in order to send data to Qsync.

QRS Music Technologies, Inc.

Warnings

FCC INFORMATION

1. **IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT!**

This product, when installed as indicated in the Installation Manual, meets FCC requirements. Modifications not expressly approved by QRS Music Technologies, Inc. may void your authority, granted by the FCC, to use this product.

2. **IMPORTANT:** When connecting this product to accessories and/or another product use only high quality shielded cables. Cables supplied with this product **MUST** be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the United States of America.

3. **NOTE:** This product has been tested and found to comply with the requirements listed in the FCC Regulations, Part 15 for Class "B" digital devices. Compliance with these requirements provides a reasonable level of assurance that your use of this product in a residential environment will not result in harmful interference with other electronic devices. This equipment generates/uses radio frequencies and, if not installed and used according to the instructions found in the Installation Manual, may cause interference harmful to the operation of other electronic devices. Compliance with FCC regulations does not guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the unit "OFF" and "ON", please try to eliminate the problem by using one of the following measures:

- Relocate either this product or the device that is being affected by the interference.
- Utilize power outlets that are on different circuits (circuit breaker or fuse) or install AC line filters.

If these corrective measures do not produce satisfactory results, please contact the local authorized distributor, or contact QRS Music Technologies, Inc. 2011 Seward Ave. Naples, FL 34109.



INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of un-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

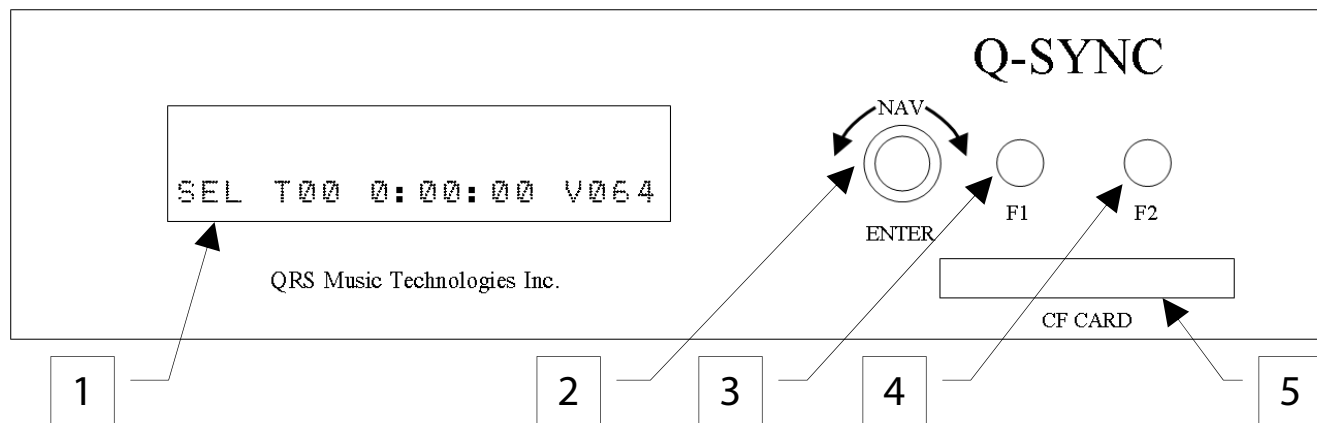
GROUNDING INSTRUCTIONS: This product must be grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This product is equipped with a cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

DANGER - Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or serviceman if you are in doubt as to whether the product is properly grounded. Do not modify the plug provided with the product. If it will not fit the outlet, have a proper outlet installed by a qualified electrician.

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Front Panel Features and Controls



1	LCD Display	This 2 line x 20 character display presents information about Qsync's status, QRS music content available on CompactFlash cards and function menu option settings. This display is back lit with easy to read electro-illuminiscent light. The back light can be turned on or off from the F2 menu.
2	NAV Dial ENTER Button	Use the Navigation Dial by rotating left and right to scroll through menu options. Pushing this dial inward allows you "ENTER" or execute selections. Pushing and holding this button for 4 seconds places the Qsync in standby mode. Pushing again while in standby mode powers system on. The navigation dial will actively scroll through DVD titles or function menu items at any time. This control is not active when in the home play window. Pushing the dial (ENTER) during play will cause the piano to stop playing and will bring you to the DVD title selection window.
3	F1 Button / Light	The F1 button provides access to function1 menu items. Press the button at any time to change parameter values or access special functions. Each time the button is pressed the menu will advance until you return to the SEL / Play window. Once in F1 menu you can repeatedly press the button until you return to the home screen or after a period of in-activity the menu will exit automatically. The F1 button is back lighted and glows when AC3 synchronization is established.
4	F2 Button / Light	Like the F1 button the F2 button provides access to function2 menu items. Press the button at any time to change parameter values or access special functions. Each time the button is pressed the menu will advance until you return to the Sel /Play screen. Once in F2 menu you can repeatedly press the button until you return to the home screen or after a period of in-activity the menu will exit automatically, returning you to the home screen. The F2 button is back lighted and glows to acknowledge MIDI output.
5	CF Card Reader	Insert a CompactFlash card containing QRS music content for DVD or Qsync update files.

Testing Qsync with Your QRS Controller

The following procedures test the connections and settings of the Qsync box and your QRS controller. Qsync can send a MIDI signal from its MIDI or AMI output to your piano directly, without using your DVD player. These procedures are helpful if you are using Qsync for the first time or if you are having trouble playing QRS DVDs from your DVD player. This test will verify that your QRS Controller's Source is set correctly, that Qsync is working properly and that the connections between Qsync and the QRS controller are good.

Play a QRS CD from your QRS controller to check volume levels and that the player system is working properly.

See the "Connecting and Using QRS Controllers with Qsync:" section of this manual to connect Qsync to your controller and to set the controller's source for Qsync.

Power ON Qsync

Insert the power adapter into a wall outlet and to Qsync's 5 VOLT DC jack. Qsync will automatically power on.

If the power adapter is already connected it may be in Standby Mode. Press ENTER, F1 or F2 to power Qsync on.

```
st
```

This display indicates that no CF CARD is present, or that a CompactFlash card is inserted but, contains no recognizable Qsync music file.

```
SEL T00 0:00:00 V064
```

Start MIDI test.

Repeatedly tap the F1 button to the MIDI TEST function.

```
No Midi Test
FC1 MIDI TEST ACT
```

Rotate the NAV dial, clockwise, to display "Midi Test Active".

```
Midi Test Active
FC1 MIDI TEST ACT
```

The F1 button will light to indicate that a MIDI signal is being sent out of the MIDI and AMI outputs. The piano should be playing.



```
SEL T00 0:00:00 V064
```

If the piano is not playing, double-check your connections and settings.

QRS Technical Support: 800-247-6557.

Stop MIDI test.

Repeatedly tap the F1 button to the MIDI TEST function.

```
Midi Test Active
FC1 MIDI TEST ACT
```

Rotate the NAV dial, counter-clockwise, to display "No Midi Test".

```
No Midi Test
FC1 MIDI TEST ACT
```

The F1 button light will go out and after a few seconds the display will return to its "home" setting.

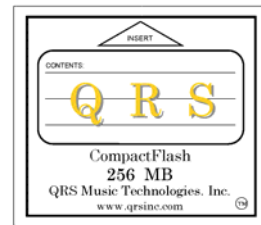
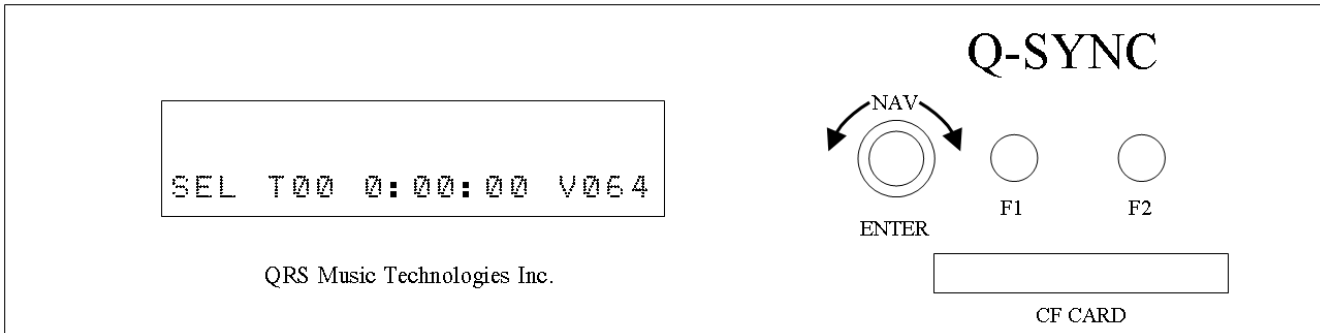


```
SEL T00 0:00:00 V064
```

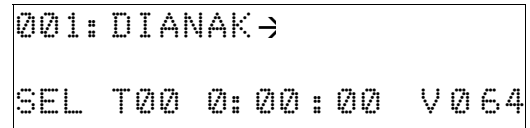
When the piano plays, you can connect and test your DVD player using a QRS SyncAlong DVD.



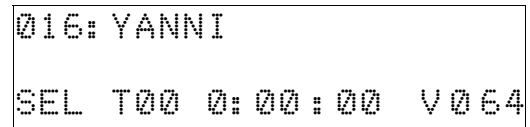
Prepare Qsync to Play a QRS SyncAlong DVD



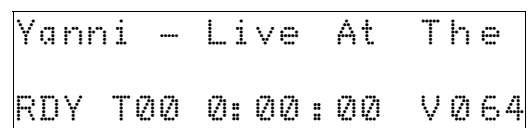
Insert a CompactFlash card containing QRS SyncAlong DVD music files into the CF CARD reader. Notice that the upper row of the display now shows the first music file on the CF card. If nothing displays, then the card is void of recognizable Qsync music files, although there could be an update file on the card. These files are identified by the suffix .WAD. Example, "Title.WAD". The compact flash card needs to contain a .wad file for each DVD title you wish to play.



Rotate the NAV dial to scroll through the available files until you reach the desired DVD title. Notice that some files display more than once, usually with a number after the arrow. These numbers indicate that there is more than one file for this artist or title or there may be a file for different sections of the same DVD.



Press the ENTER button to accept the title selected above. The artist and DVD title will display in the upper row. Notice that "RDY" (ready) has replaced "SEL" (select) in the bottom row of the display. Pressing the ENTER button will take you back to the select "SEL" mode.



Qsync is now ready and waiting for data to its SPDIF IN jack from the coaxial output of the DVD player.



How To Enter Unlock Codes

An unlock code or key is a code you receive specific to your serial number and DVD Title. In every Qsync package 5 DVDs are enabled for playback without the need of an unlock key. These DVDs are Diana Krall: Live, Yanni: Live at the Acropolis, Norah Jones: Live in New Orleans, The Legend of 1900, and Barry Manilow: Live. Those with earlier DVD packages may have received the John Tesh DVD, which is no longer available, it is also unlocked. All other DVDs that work with Qsync will require an unlock code.

Unlock codes will appear like the following example:

Serial Number: (Example) 200

Catalog #: Title: Unlock Code:

962001 Billy Joel: Live At Yankee Stadium 01XC

962017 Elton John: One Night Only XCAB

Turn Dial clockwise until you see the name of the title of the DVD you are playing. Then press enter to select it. The following prompt will appear if an unlock code is necessary.

CODE: ?

Enter Unlock Code

Turn the dial Clockwise or Counter Clockwise to select the appropriate character to match the first digit of your unlock code. When you have it correctly matching press enter to set the next character to the right and continue this process until all 4 digits match the code given for your serial number by QRS. Press enter again after you have entered the 4 characters. The screen will prompt:

YES

Submit Code 01XC?

Press enter to submit the code. If you make a mistake it will allow you to retry. When the code is correctly entered it will be saved so you won't need to re-enter the code again. When the DVD is playing a track, and not in the DVD menu screen, you will then see the following:

{DVD TITLE OR TRACK TITLE}

PLY: {Track Number - Time Information}



Play a QRS SyncAlong DVD

Prepare the QRS controller and the Qsync box:

Select the appropriate source on your QRS controller.
For details, find your specific controller on pages 12 through 17 of this manual.
"Connecting and Preparing QRS Controllers for use with Qsync"

On the Qsync box, select the DVD title you wish to play.
See page 6 for details.
"Prepare Qsync to Play a QRS SyncAlong DVD"

Prepare your DVD player.

Set up your DVD player for the correct digital output format. Qsync needs AC3 data to work. Generally a DVD disc will default to one of several possible AC3 types. AC3 2 channel, AC3 3.1 or AC3 5.1. The Qsync will support these AC formats automatically. You will need to verify that any given DVD title is defaulting to an AC3 format and not some other format such as DTS or PCM. Normally a DVD player will allow you to set the default digital mode it will operate in. Always set to RAW or AC3. Be sure NOT to set to PCM as this format is not used for in the Qsync technology.

NOTE 1: NORMALLY NOT REQUIRED, BUT YOU SHOULD KNOW HOW TO CHANGE SETTINGS SHOULD SOMEONE CHANGE THE SETUP. Using the setup menu in the DVD player, navigate to the Audio Setup page. Navigate to the Digital Audio options and select Digital Output / SPDIF / RAW. In most cases the DVD player will retain this setting option and this only needs to be done once.

NOTE 2: You MUST use a DVD AND a DVD player made for your specific Country/Region. For example, the U.S. is in region 1. This means that all DVD players sold in the U.S. are made to region 1 specifications. As a result, region 1 players can only play region 1 discs. The DVDs themselves are encoded for a specific region. On the back of each DVD package, you will find a region number (1 thru 6). See page 11 for a list of the geographic regions.

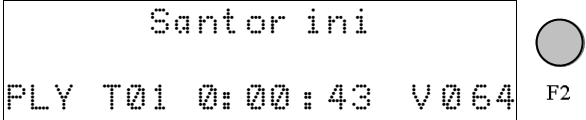
NOTE 3: Set the proper TV STANDARD, NTSC for USA or PAL, depending on the country where used. See the instructions on page 9 to change this setting.

Play the selected DVD from your DVD player.

Insert the DVD that you've selected on the Qsync box, page 6.

Select "play concert", or select an individual song, from the DVD title screen on the DVD player.

The song title displays in the top row.
T01 tells us that this is the first track on the DVD.
The F2 button light should turn on, Qsync is syncing to AC3.
The time counter on the Qsync display should start to increment.
All indications that the devices are setup correctly and Qsync is functioning.



As MIDI starts streaming to the Pianomation you will see the F1 light flicker as the piano starts playing, in sync with the audio/video from the DVD.



Using the DVD player you may start, stop, fast forward, rewind, etc. and Qsync should follow.

As each chapter advances, the next title will automatically play and show on the LCD display.
Special Notes: During playback, pressing the Data dial will allow you to enter "sync adjust mode" providing +/- 250 milliseconds of adjustment.

If you plan to use the L/R analog audio outputs of the DVD player, connect the left and right line output of the DVD player to the L/R Line inputs of Qsync. Connect the L/R Line outputs of Qsync to your audio systems line input. Using this option allows single point volume adjustment for the Pianomation and DVD audio. Using these connection allow for Bass and Treble adjustment as well. If you do not use these line input connections on Qsync, you can still use the Qsync's piano volume adjustment for Pianomation.



Qsync

V1.16_1



Function 1 Menu Options

Function 1 Menu Options			
1	Piano Volume	Allows the piano volume to be adjusted through a range of 0 - 127.	<pre> 64 FC1 Piano Volume </pre>
2	Audio Volume	Allows audio volume to be adjusted when the analog stereo signal from your DVD player flows through the Qsync. Volume range is 0 - 127.	<pre> 64 FC1 Audio Volume </pre>
3	Bass	Bass. Use to increase or reduce low frequency response of audio signal. + / - 20db. A setting of 0 leaves audio unaltered.	<pre> 0 FC1 Audio Bass </pre>
4	Treble	Treble. Use to increase or reduce high frequency response of audio signal. + / - 20db. A setting of 0 leaves audio unaltered.	<pre> 0 FC1 Audio Treble </pre>
5	Input Gain	Provides adjustment to compensate for a DVD player with lower than or higher than normal audio signal when using audio line inputs.	<pre> 0 FC1 Audio Input Gain </pre>
6	MIDI Test	<p>When activated this function sends a repeated chromatic note loop out both the AMI and MIDI ports. Useful when trouble shooting or setting up a new system to verify connections and settings with Qsync and Pianomation are correct. Tempo and velocity for this function are preset and not user adjustable.</p> <p>To activate MIDI test, navigate to MIDI TEST in the F1 menu and rotate dial to select "Active"</p> <p>To terminate MIDI test, rotate Nav dial to "No MIDI test"</p>	<pre> No Midi Test FC1 MIDI TEST ACT </pre>

Updating Qsync

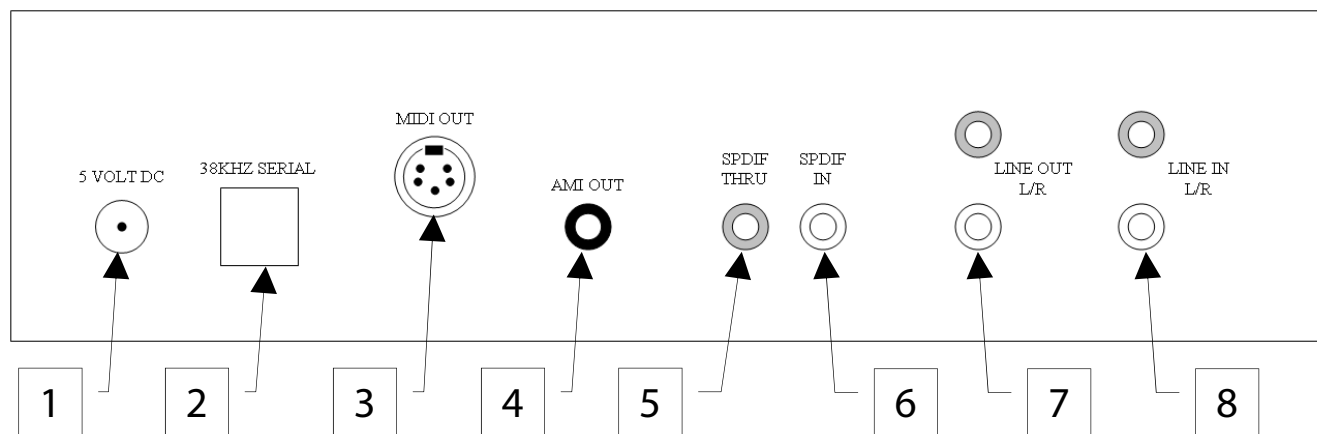
There are 2 update options for Qsync, UPDATE_SYST and UPDATE_DEMO. The demo option is for future use. Copy the file named qsync1.1x.app onto a compact flash card at the root directory. (do not place update file in a folder). If the update file was emailed to you or down loaded from the QRS web site it may be necessary to change the suffix to .app. Some spam filters do not pass files with executable extensions such as .app in which case we change the suffix to .xxx.

Press "ENTER" to execute selection. Rotate dial to find selections.
 Use the F2 function to navigate to confirm software version.
 Use F2 to access system update option.
 Insert the flash card into your Qsync and navigate to the UPDATE_SYST item using the F2 button. Use ENTER to select the system update file which is displayed as QSYNC11X.
 The display shows CNF? YES:ENTER NO:F2 Press ENTER to execute the update process or press F2 to escape without altering your operating system.
 During the update process the display will show UPDATE APPT : ERASE and then UPDATE APPT : SUCCES.
 Unplug the power from the Qsync, wait 10 seconds and re-plug the power. Your operating system has now been updated successfully.

Function 2 Menu Options

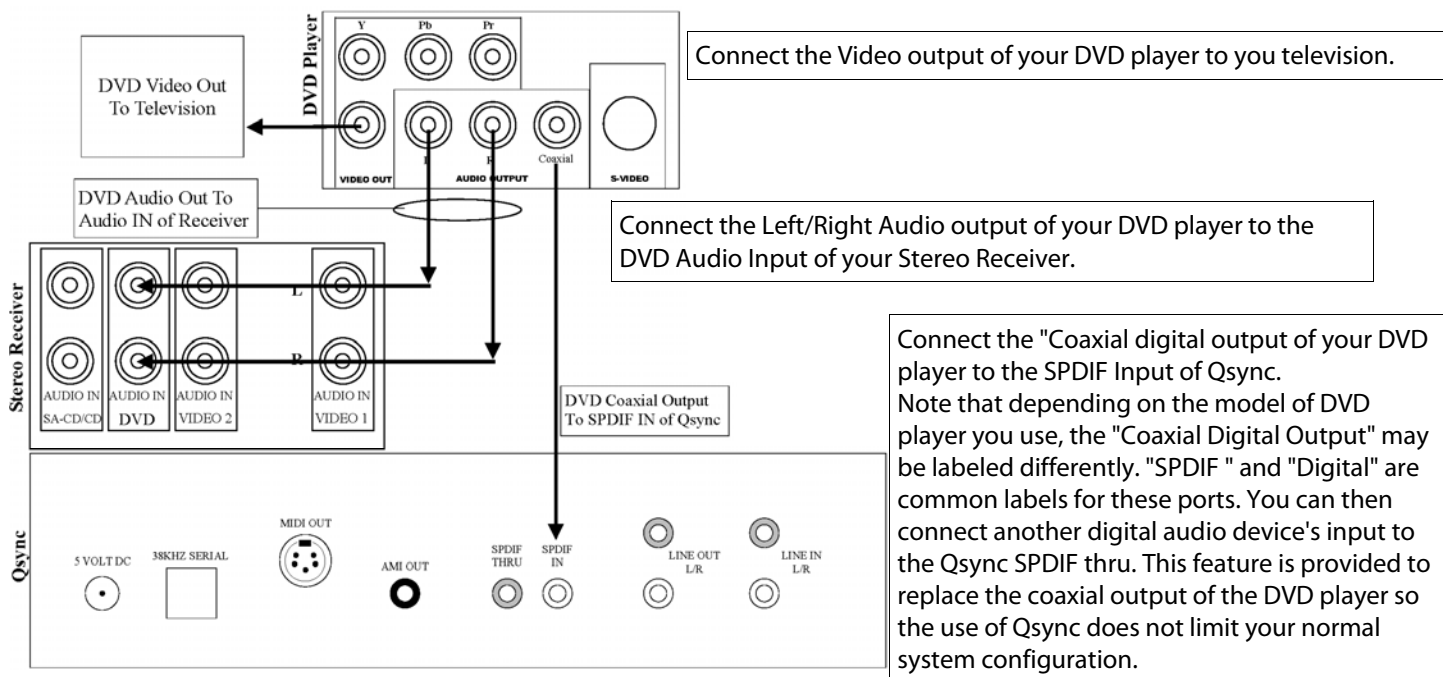
Function 2 Menu Options			
1	MIDI DELAY	Used to adjust the synchronization between DVD audio and Pianomation system. Range is 0 to -600ms. At -500ms the display will show Pianomation which is the correct setting for a normal setup. The purpose of changing this delay value would be if there is a large physical distance separating the acoustic piano and the audio playback speakers where perceived timing is skewed.	<pre> Pianomation FC2 MIDI DELAY </pre>
2	MIDI CHANNEL	Changes the MIDI channel which Qsync sends the piano performance data out. Channel 1 is the correct setting for Pianomation systems. This parameter only effects MIDI going out on the MIDI out jack. This does not include data at AMI output.	<pre> 1 FC2 MIDI CHANNEL </pre>
3	IR RECEIVER	Allows front panel IR receiver to be activated or not. Front panel IR receiver is not included in all models of Qsync. Should nominally be set to "No IR Receiver". This allows the QRS Pianomation system IR remote control to function in close proximity to the Qsync device without interference.	<pre> No IR Receiver FC2 IR RECEIVER </pre>
4	BACK LIGHT	Used to turn the LCD backlight on or off. Turning off the light can be useful in reducing visual awareness of the component.	<pre> Back Light On FC2 BACK LIGHT </pre>
5	TV STANDARD	Set to NTSC for systems in the US. Set to PAL for compatibility in other countries.	<pre> NTSC FC2 TV STANDARD </pre>
6	UPDATE SYST	Menu option used for updating you Qsync operating system. See "Updating Qsync".	<pre> No SYST Updates FC2 UPDATE SYST </pre>
7	UPDATE DEMO	Menu option used to update internal demo library if available. <i>This function is not yet operational.</i>	<pre> No DEMO Updates FC2 UPDATE DEMO </pre>
8	RESTORE DEFAULTS	Used to reset Qsync to factory settings.	<pre> FC2 Restore Defaults </pre>
9	REVISION	Provides information about installed software version and date of software release.	<pre> Revision: #:## Date: yyyy/mm/dd </pre>

Rear Panel Connections



1	5 VOLT DC Power Input	Supplies power to the Qsync box via a QRS AC to DC power adapter. Input: AC100-240V 800mA 50/60Hz Output: DC 5V 5A
2	38KHZ SERIAL RJ11 Input	This jack is currently non-functional. The RJ11 phone type connector will provide a 38Khz serial input for integration into home automation and music server systems. Qsync can receive IR type commands over a wire, allowing Qsync functionality to be seamless. Details of the DATA requirements and implementation of this control port will be provided at the time the software update is released.
3	MIDI OUT	These jacks will send the data to the QRS controller to play the piano. Decide whether you will use the AMI output or the MIDI output connection to your Pianomation system. Generally you will make this decision based on the placement of your Qsync. If Qsync is placed close to the piano, you will want to use the MIDI connection. If Qsync is located near your audio system you can use AMI with a wireless transmitter. If you plan to run wire for this connection, you can use MIDI or AMI.
4	AMI OUT	
5	SPDIF THRU	You can then connect another digital audio device's input to the Qsync SPDIF thru. This feature is provided to replace the coaxial output of the DVD player so the use of Qsync does not limit your normal system configuration.
6	SPDIF IN	The SPDIF IN jack receives data from the coaxial audio output of the DVD player to synchronize the piano with the audio and video. Connect the "Coaxial digital output of your DVD player to the SPDIF Input of Qsync. Note that depending on the model of DVD player you use, the "Coaxial Digital Output" may be labeled differently. "SPDIF " and "Digital" are common labels for these ports.
7	LINE OUT L/R	If you plan to use the L/R analog audio outputs of the DVD player, connect the left and right line output of the DVD player to the L/R Line inputs of Qsync. Connect the L/R Line outputs of Qsync to your audio systems line input. Using this option allows single point volume adjustment for the Pianomation and DVD audio. Using these connection allow for Bass and Treble adjustment as well. If you do not use these line input connections on Qsync, you can still use the Qsync's piano volume adjustment for Pianomation.
8	LINE IN L/R	

Connecting Qsync to Your Audio and Video Components

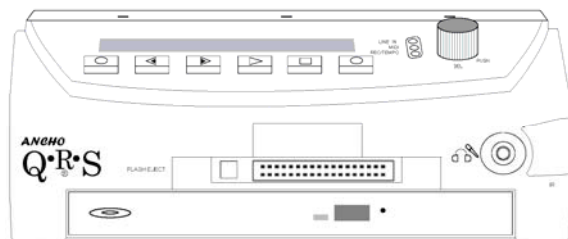


Troubleshooting

DVD Regions	
Region #	County
0	ALL - Discs are uncoded and can be played Worldwide. However, PAL discs must be played in a PAL-compatible unit and NTSC discs must be played in an NTSC-compatible unit.
1	USA, Canada
2	Japan, Europe, South Africa, Middle East, Greenland
3	S.Korea, Taiwan, Hong Kong, Parts of South East Asia
4	Australia, New Zealand, Latin America (including Mexico)
5	Eastern Europe, Russia, India, Africa
6	China
7	Reserved for Unspecified Special Use
8	Reserved for Cruise Ships, Airlines, etc...

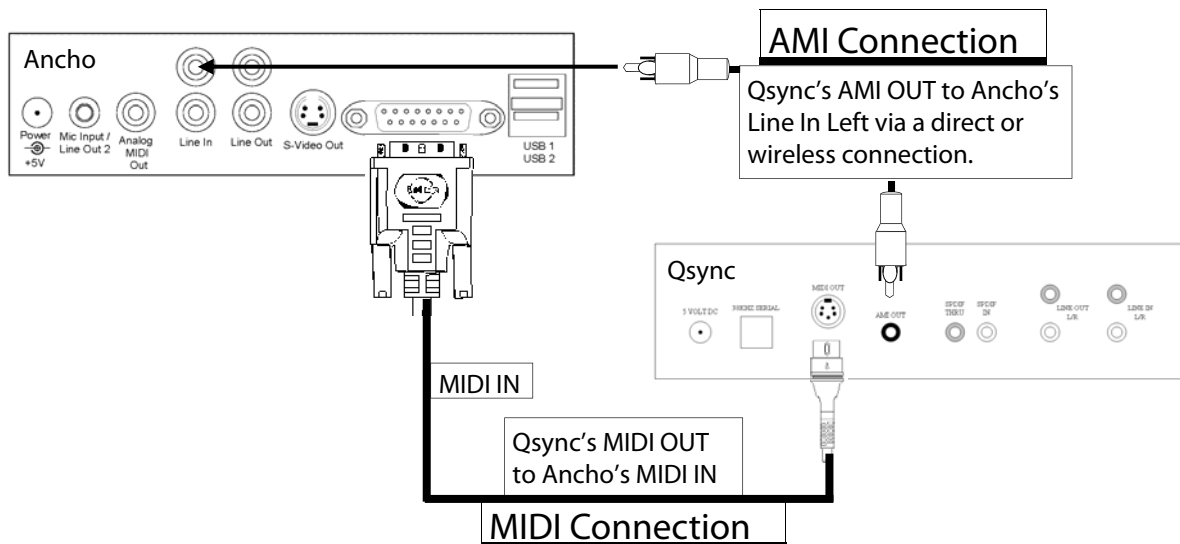
Connecting and Preparing QRS Controllers for use with Qsync...

Ancho



Make either the AMI or the MIDI connection but, not both. Usually the MIDI connection is used when the Qsync box is located near the Ancho controller. The AMI connection can be made using a common RCA audio cable. If it's not convenient to run a cable from the Ancho to the Qsync box a Shure wireless device can be used. Contact QRS Technical Support at 800-247-6557 for details .

Connecting Qsync to an Ancho / MIDI or AMI



Playing Qsync from an Ancho's Auxiliary Source / AMI

Press the Stop button to stop play.	
Use the remote control to change the source to "AU" or...	
Rotate the ADJ ust dial to point toward the source section of the display.	
	0 0 4 I N < ■ 0 0 : 0 0 V 0 6 3
Press the SEL ect again so that the arrow begins to flash.	
	0 0 4 I N < ◀ 0 0 : 0 0 V 0 6 3
Rotate the ADJ ust dial so that the "AU" source appears.	
	A U ◀ ■ Q - R - S V 0 6 3
Press the SEL ect button to select the Auxiliary Input Source.	
	0 0 0 E A U ▶ Q - R - S V > 0 6 3
Ancho is ready for the AMI signal from Qsync.	

...Connecting and Preparing QRS Controllers for use with Qsync...

Set Up Ancho to Play from the MIDI Output of Qsync

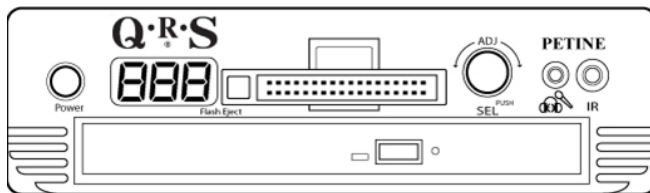
Press the Stop button to stop play.	
Rotate the ADJ ust dial to display "SETUP" in the center of the display.	
Press the SEL ect button to enter the Setup mode.	
Press the SEL ect button again so that the arrow begins to flash.	
Rotate the ADJ ust dial so that the "MIDI-SRC" appears.	
Press the SEL ect button so that the arrow stops flashing.	
Rotate the ADJ ust dial so the arrow points toward the current MIDI-SRC selection.	
Press the SEL ect button again so that the arrow begins to flash.	
Rotate the ADJ ust dial so that the "F-Player" appears.	
Press the SEL ect button twice within one-half second to save the new setting and exit the function mode.	

Playing Qsync from an Ancho's MIDI Source

Press the Stop button to stop play.	
Use the remote control to change the source to "MI" or...	
Rotate the ADJ ust dial to point toward the source section of the display.	
Press the SEL ect again so that the arrow begins to flash.	
Rotate the ADJ ust dial so that the "MI" source appears.	
Press the SEL ect button to select the MIDI Input Source.	
Ancho is ready for MIDI data from an external source connected to the MIDI Input cable.	

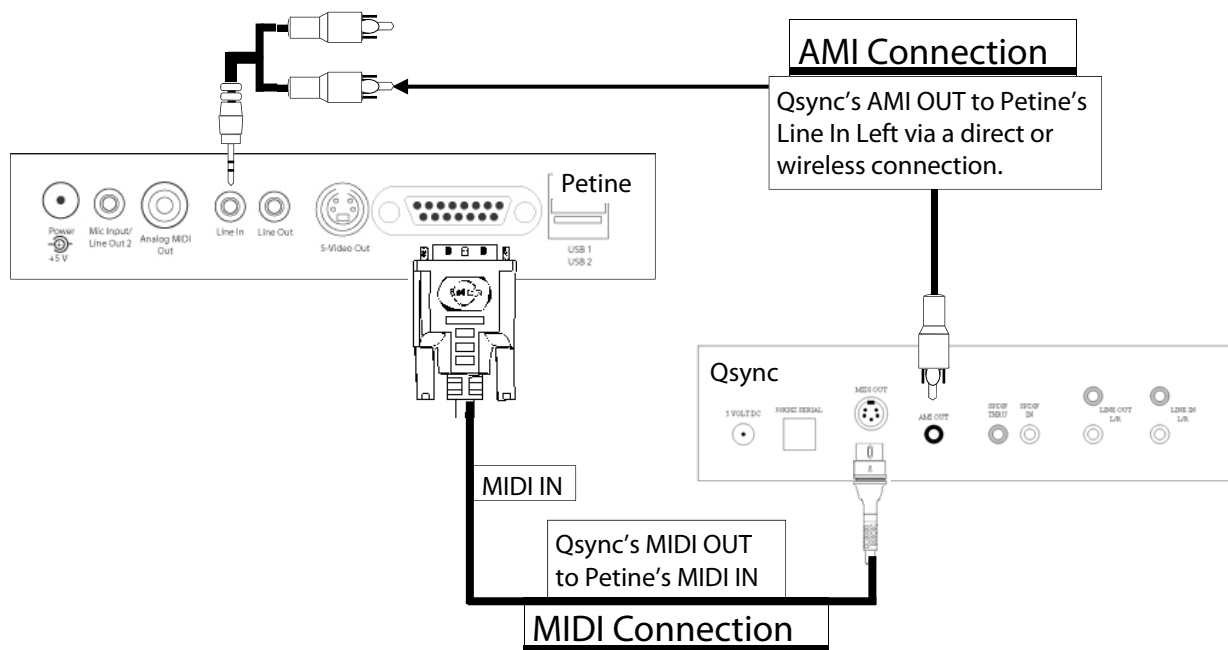
...Connecting and Preparing QRS Controllers for use with Qsync...

Petine



Make either the AMI or the MIDI connection but, not both. Usually the MIDI connection is used when the Qsync box is located near the Petine controller. *Note: The Petine controller does not come with a MIDI OUT connection as standard equipment, it must be ordered separately and installed by a qualified Pianomation technician.* The AMI connection can be made using a common RCA audio cable. If it's not convenient to run a cable from the Petine to the Qsync box a Shure wireless device can be used. Contact QRS Technical Support at 800-247-6557 for details.

Connecting Qsync to a Petine / MIDI or AMI




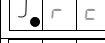
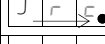

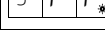


Playing Qsync from Petine's Auxiliary Source / AMI






Press STOP to halt play. Press the remote control's SOURCE button and then the number 4 button. "4Au" displays.	
After a few seconds the display changes to the default "ANI" setting. Petine will now respond to the external source.	
Start playback on the external source connected to the "Line In" jack on the back panel of the Petine controller and the piano will play. Use Petine's remote to control piano and audio volume levels.	
Press the STOP button on the remote or the ADJ Dial on Petine to halt playback.	

...Connecting and Preparing QRS Controllers for use with Qsync...

Set Up Petine to Play from the MIDI Output of Qsync

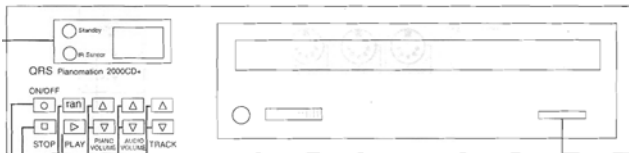
Press STOP to halt play. Press the Petine's ADJ Dial twice within one-half second to enter the Setup Menu.	
Petine will open to the source section of the Setup Menu and display the current source.	
Press the ADJ Dial once so that the dot begins to flash.	
Rotate the ADJ Dial to display an "└┘" and access to the MIDI Input Select function.	
Press the ADJ Dial to stop the flashing.	
Rotate the ADJ Dial to move the dot to the right display segment.	
Press the ADJ Dial so the dot flashes.	
Rotate the ADJ Dial to display "F P" for the File Player option.	
Press the Petine's ADJ Dial twice within one-half second to exit the Setup Menu.	

Playing Qsync from a Petine's MIDI Source

Press STOP to halt play. Press the remote control's F1/SOURCE button and then the number 5 button. "5 n i" displays.	
Or...	
On the Petine controller, press the ADJ Dial twice within one-half second.	
Rotate the ADJ Dial so that the dot is in the far right segment.	
Press the ADJ Dial once so that the dot is flashing.	
Rotate the ADJ Dial until "F P" appears.	
Press the ADJ Dial twice within one-half second to exit.	
After a few seconds the display changes to "F P" with a flashing dot at right. Petine will now respond to MIDI data received into MIDI IN cable.	
Rotate the ADJ Dial to adjust the volume.	
Press STOP on the remote or Press the ADJ Dial on Petine to halt playback.	

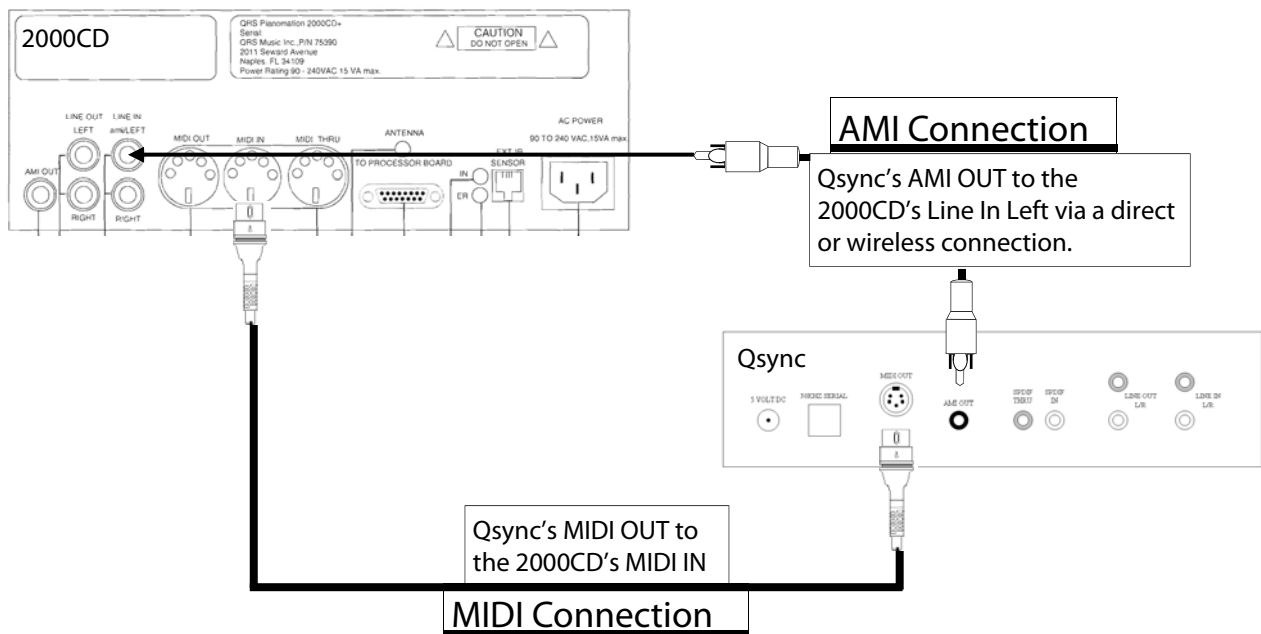
...Connecting and Preparing QRS Controllers for use with Qsync...

2000CD



Make either the AMI or the MIDI connection but, not both. Usually the MIDI connection is used when the Qsync box is located near the 2000CD controller. The AMI connection can be made using a common RCA audio cable. If it's not convenient to run a cable from the 2000CD to the Qsync box a Shure wireless device can be used. Contact QRS Technical Support at 800-247-6557 for details .

Connecting Qsync to a 2000CD / MIDI or AMI



Playing Qsync from a 2000CDs Line Input Left/AMI

Using the remote control, repeatedly tap the F1/Source button until "Ln" displays. The 2000CD controller is ready to accept the AMI signal from the Qsync's AMI OUT.

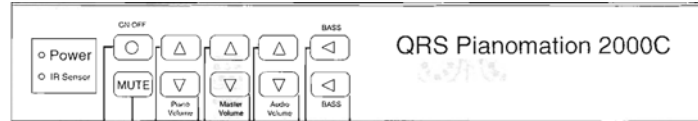
To return the 2000CD to play CDs from it's internal CD source, repeatedly tap the F1/Source button until "CD" displays.

Playing Qsync from a 2000CD's MIDI Input

To play Qsync using a MIDI connection just power the 2000CD on.

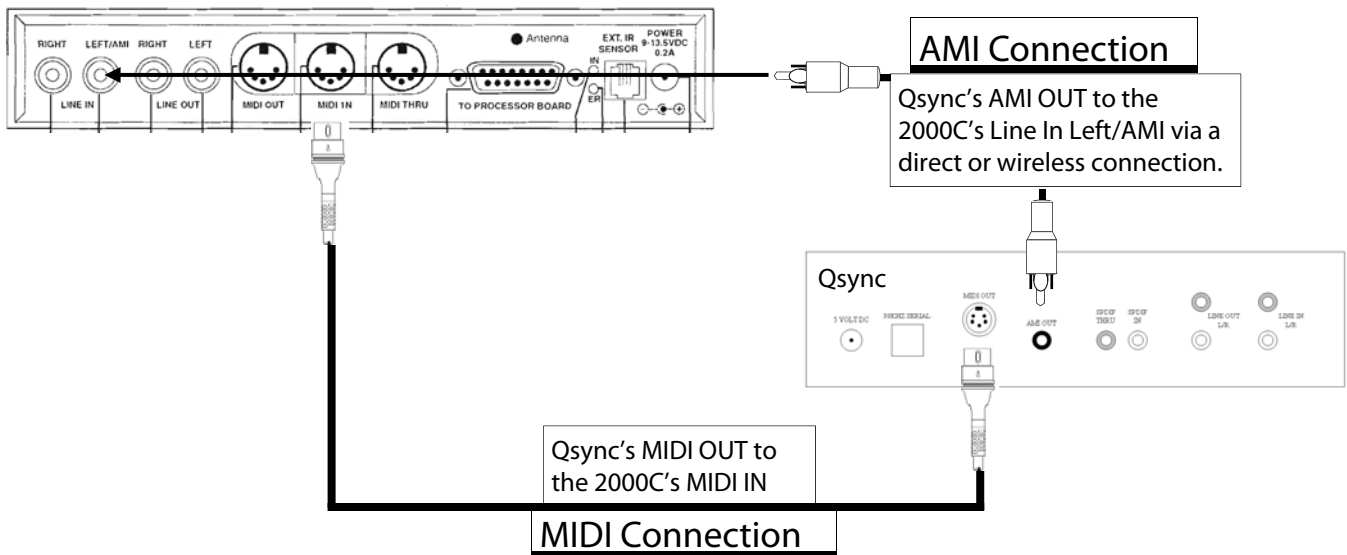
...Connecting and Preparing QRS Controllers for use with Qsync

2000C



Make either the AMI or the MIDI connection but, not both. Usually the MIDI connection is used when the Qsync box is located near the 2000C controller. The AMI connection can be made using a common RCA audio cable. If it's not convenient to run a cable from the 2000C to the Qsync box a Shure wireless device can be used. Contact QRS Technical Support at 800-247-6557 for details .

Connecting Qsync to a 2000C / MIDI or AMI



Playing Qsync from a 2000C's Line Input Left/AMI

Playing Qsync from a 2000C's MIDI Input

The 2000C is ready to accept either input as soon as it's powered on.



**PIANOMATION®
ELECTRONICS/ELECTROMECHANICAL SYSTEM
LIMITED WARRANTY**

PIANOMATION ELECTRONICS LIMITED WARRANTY

QRS Music Technologies, Inc. ("QRS") warrants to you for the Warranty Period that there are no defects in the materials of this Product (as identified at the end of this warranty certificate). The "Warranty Period" expires (except as explained below) Two (2) years from the date of your purchase of the Product. In order to determine the date of your purchase of the Product, you will need to provide to us a credit card receipt, a purchase agreement, a sales slip, a warranty registration or some other form of proof that you are the original purchaser and the date of your purchase of the Product.

If you are not able to provide us with some form of proof of purchase date, the Warranty Period will be a shorter period (the "Shorter Warranty Period") which is two years from the date that your dealer purchased the Product from QRS. If you cannot provide a proof of purchase date, you may contact us in the manner described below and we will assist you in determining the date that your dealer purchased the Product from us and determining the Shorter Warranty Period. This is a warranty for parts only and does not include shipping or labor.

This warranty does not apply to any accessories you may have purchased with the Product and does not apply to any piano or components of the piano with which the Product is used or any Piano in which the Product is installed. In addition, this warranty does not cover scratches, dents or other defects in the cosmetic finish of the Product.

The warranty is issued solely to the original purchaser of the Product. **THIS WARRANTY IS NOT TRANSFERABLE.**

If, during the Warranty Period, parts incorporated in this Product are found to be defective in material or workmanship, and the original purchaser provides Purchase Documents to QRS, then QRS or its authorized dealer will provide replacement parts without charge. We may, at our discretion, provide reconditioned parts or assemblies as warranty replacements. You as the original purchaser will be responsible to pay labor costs incurred in connection with any repair.

LIMITATION IN CONNECTION WITH OBSOLETE PRODUCTS

If at the time you make a claim pursuant to this warranty, we no longer manufacture or sell the same model of Product, we may, at our discretion, rather than repair or replace defective parts in the Product, offer to sell you a more current version of a similar Product. If we offer to sell you a more current model of the Product, you will be responsible to pay the difference between the Manufacturer's Suggested Retail Price ("MSRP") of the more current version of a similar Product and the price you paid for the Product you purchased. If you choose not to accept such offer, we will have no further obligations pursuant to this warranty.

THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, MADE BY THE MANUFACTURER IN CONNECTION WITH THIS PRODUCT. INCLUDING, BUT NOT LIMITED TO, WARRANTIES OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT ALLOWED BY THE LAW, QRS SHALL NOT BE RESPONSIBLE FOR LOSS OF THE PRODUCT, LOSS OF TIME, INCONVENIENCE, COMMERCIAL LOSS, SPECIAL OR CONSEQUENTIAL DAMAGES, EVEN IF THE MANUFACTURER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

This warranty gives you specific legal rights. Some states provide other rights, and some states do not allow excluding or limiting liability for incidental or consequential damage. Consequently, the limitations and exclusions in this warranty may not apply to you. In addition, some jurisdictions have consumer protection rules, regulations and statutes that may apply to you.



Exclusions

There is no express warranty on the Product and this warranty is void if:

- 1) You did not purchase this Product from an authorized Pianonation reseller
- 2) This Product has been serviced, modified or tampered with by anyone other than an QRS Authorized Service Representative
- 3) The name, trademark or serial number has been modified, defaced or removed from the product,
- 4) This Product has been damaged as a result of abuse, abnormal force or strain, failure to reasonably maintain and protect, modification, accident or exposure to extreme temperature or humidity,
- 5) Parts, supplies or other accessories which have not been approved by QRS have been used with this Product,
- 6) Radio frequency interference is generated by uncertified and/or illegal equipment,
- 7) This Product has been moved or delivered without reasonable preparation and packaging or
- 8) QRS reasonably determines, after inspection that there has been modification of this Product which adversely affects the reliability of the product or component.

Owner's Responsibility

In order to have rights under this warranty, you have the following responsibilities:

- 1) Retain your proof of purchase and purchase date and send in your Warranty Registration Card
- 2) Notify QRS or any authorized dealer of any warranty claim within ten (10) days after discovery and provide a detailed explanation of the problem.

General

If any provision herein shall be unlawful, void or for any reason unenforceable, then that provision shall be deemed severable from this warranty certificate and shall not affect the validity of and enforceability of the remaining provisions.

QRS reserves the right to make changes in design and/or improvements to its products without any obligation to retrofit products previously manufactured.

INSTRUCTIONS FOR OBTAINING WARRANTY SERVICE

- 1) If you cannot provide proof of purchase, contact QRS at 800-247-6557 and we will attempt to determine the date on which your dealer purchased the Product and assist you in determining the Shorter Warranty Period. For warranty service, contact the dealer from whom you purchased the product, or your nearest dealer.
- 2) If no dealer is near you, contact QRS by phone at 800-247-6557.
- 3) Do not ship the product without prior written Return Authorization from QRS. Do not attempt to repair or disassemble the product yourself.
- 4) Please record your model number and serial number and your date of purchase below for your records. Keep this information with your proof of purchase in case your product requires service. Do not dispose of the warranty after it expires. In the event your product ever requires service, these instructions should be helpful in enabling you to obtain proper service.

Product Model # _____

Product Serial # _____

Date of purchase _____

QRS Music Technologies, Inc.



For Technical Support Call 1-800-247-6557