QRS PNOmation II Upgrade Instructions Pianomation[™] MIDI Retrofit Kit Installation Manual Addendum PMII User Guide

QRS is revolutionizing the player-piano industry with the introduction of its latest player technology, PNOmation II . PNOmation II is the most advanced player-piano system available on the market today. Just take a glance at some of its great features, and you will see why new and current customers are upgrading to the latest in player technology.

BETTER AESTHETICS

PNOmation II is an invisible player. With PNOmation II, there is no visible front-end controller mounted under the piano keyboard. Enjoy the benefits of a player without altering the appearance of your piano.

BETTER USER EXPERIENCE

PNOmation II offers the industry's best user experience. PNOmation II not only functions as a stand-along player system, but also as a node on your home network. With PNOmation II's web-enabled user interface, the possibilities are endless: create playlists and control your player piano with an iTouch, iPod, iPhone, or any web-enabled phone; or use a PC or MAC on your home network.

BETTER PERFORMANCE

PNOmation II features enhanced playback abilities with superior execution of dynamics. The softest pianissimos and loudest fortissimos offer greater extremes of expression and produce more convincing musical performances. PNOmation II also dramatically improves the control over the sustain pedal solenoid which allows for quieter sustain pedal operation and more accurate performance.

BETTER DESIGN

PNOmation II incorporates PNOscan II, the player industry's leading MIDI recording tool.

BETTER NOW, BETTER LATER

PNOmation II is a simple and easy upgrade. It only takes four screws to swap the PNOmation II processor into your existing player system, and it has been designed from the ground up to integrate with your existing system while offering the latest, cutting-edge technology. PNOmation II is also prepared for the future, as it is high-bandwidth ready for next-generation MIDI standards.







Table of Contents

Package Contents		
Upgrade and Installation Instructions for Technicians		
Remove the Existing Pianomation Processor	3	
Mount and Connect PNOmation II		
Connect Speaker	4	
Connect and Mount Wireless		
Mount Pin-Light Extension [PLx]	5	
Connect Pin-Light Extension [PLx] to PMII	J	
Connect to Power [STANDBY]	6	
Connect to Wireless and Power ON	0	
Pin-Light Extension [PLx] Features	7	
Key Adjust	8	
Pedal Adjust	٥	
Test Files	9	

Table of Contents

Us	er Quick-Guide	
	Play Piano	
	Playback Controls [Volume Levels / Mute]	10
	External Inputs	
	Create a Playlist	11
	Play a Playlist	11
	Shut Down Options	10
	Power Options	12
	Network Settings	13
	System Information	14
	Update Information	15

	PMII Package Contents					
80108 80103	PNOmation II Processor Two Mounting brackets with four screws					
79226	SD Card with the QRS Music Library					
80124	Pin-Light Port Extender [PLx] [Six Indicator Lights; IR Sensor; Ster Reset Button]	eo & USB Ports; Microphone;				
50128	2 Cable: Audio [1/8" Male to 1/8" Male]					
50131	Cable: USB Male A to USB Male A					
50126	Cable: USB A Male to USB 5-Pin Mini B					
790185	Cable: Six-Pin Ribbon					
79224	Portable Wireless					
	Universal power adapter (5V/1A, 100V~240V)	1815				
	Cable: USB A to wireless power jack					
	Cable: RJ45 Ethernet					
	Velcro Strip [Use to attach ASUS to beam or back post]					
990026	Cable: Speaker [1/8" stereo plug to two RCA]					
	Screw Driver [Small Phillips to remove old processor]					

1							
	PMII Upgrade - Remove the Existing Pianomation Processor						
1	Tu	Turn OFF the player system and unplug the AC power cord from the wall outlet.					
2	Locate the Pianomation processor. It's within a foot of the QRS power supply. The power supply is a black box the size of a loaf of bread.						
	0 r	On a GRAND piano the processor is mounted to a beam under the soundboard area.					
	or On an UPRIGHT, remove the lower panel to gain access to the power supply.						
3	Flip	o the ON/OFF switch on the power supply to the "OFF" position.					
4	Disconnect all of the cables from the old Pianomation processor. Some older processors have different type connectors and use different cables, you may need to replace cables "A" and "C" below. Go to <u>http://www.qrsmusic.com/support_hardware.asp</u> "Upgrading Your QRS Pianomation MNIDI System"						
	tor details.						
	- "TO SOLENOID RAIL" This ribbon cable may be held-in by two small screws.						
	- "TO POWER SUPPLY"						
- "TO CD/USER INTERFACE"							
F	Remove the old Pianomation processor and mounting brackets from the piano by removing the 4						

screws.





	Mount and Connect PNOmation II
6	Mounting the new PNOmation II processor to the piano.
	Slide the mounting bracket over the ends of the processor. Snap the retainer clips over each end piece to hold the brackets to the processor. Place the new processor in the same location as the original. <i>Position it so that the connectors are easily accessible.</i> Once you've positioned the processor, remove the backing from both brackets to expose the adhesive. Stick the processor to the piano. Unclip the brackets, remove the processor and secure the brackets to the piano using the screws provided.
7	Connect the cables to the new PNOmation II processor.
	- "DRIVER A"
	- "POWER SUPPLY"
	"USER CONTROLLER" located on the side of the chassis. It is not necessary to reconnect your original QRS controller.
	Connect Speaker
-	





	Connect and Mount Wireless					
9	Plug the wireless power adapter into an AC outlet. There are two possible locations:					
		The un-switched outlet [UNSW OUT] on the type A power supply, if it's not being used.				
	or	The extension cord from the wall outlet that runs inside or under the piano.				
Connect the Ethernet cable from the wireless to the Ethernet port on the PMII processor.						
	Using the Velcro strip supplied, attach the wireless unit to the piano .					

Mount the Pin-Light Extension [PLx] The Pin-Light Extension serves several functions: Six lights will display valuable information about your system. The built-in IR Sensor will allow you to use your existing QRS Remote to control PMII. USB A, USB Mini B & 1/8" stereo jacks allow you to extend the ports from PMII to an accessible position on the piano. The "Reset" button can be use to change the intensity of the lights and to reboot or reset PMII to factory default values. 10 Mount the PLx unit to the piano. We suggest mounting the PLx unit under the keybed at the treble side of the piano.







	Connect to Power [Standby]					
12	Plug the AC power cord into a wall outlet.					
	Flip the power supply switch to the "ON" position.					
	PNOmation II will power on in several minutes. The system has booted and is in standby when PLx lights stop flashing and the Power light is yellow.					

	Connect to Wireless and Power ON				
13	Wirelessly connect your iTouch, iPad or Smart Phone to the wireless device connected to PMII. [Settings / Wi-Fi / click on the QRSPNO ### device] Open your internet browser. In the address box type: <u>QRSPNO</u> or <u>http://192.168.1.1/qrs</u> and enter.				
14	Press the Power ON button				



The "Power", "System" and "Network" lights should be green.



Pin-Light Extension [PLx] Features						
Power	Green Steady: HI power LED is ON Winking: Data to Driver Boards					
HI power LED	Yellow	STANDBY				
	Red	Steady: Short Circuit or Low Current State				
System	Green	Steady: LO power LED is ON				
LO power LED	Yellow	Flash: Remote Control Activity				
	Red					
	Green	Steady: Stand-Alone Mode for Access Point connection				
Network	Yellow	Steady: Network Mode				
	Red	No Connection				
Mode						
SD Card [Source & 3]	Green	Steady				
USB 1 & 2 [Source & 8-9]		Steady - should not be same as SD card				
Test Files [Source & 12]		3 Blinks then Pause				
Internal Demo [Source & 2]		1 Blink per Second				
QRS Controller [Source & 1]		Steady				
AUX In [Source & 4]	Mallaur	1 Blink per Second				
MIDI In [Source & 5]	renow	3 Blinks then Pause check, QRS remote vs GUI				
MIDI	Green	Steady: 10-pin PNOscan				
MIDI Traffic to Solenoids		Winking: MIDI traffic				
	Red	Winking: 5-pin MIDI traffic				
	Green	Steady: Decoding MIDI Data				
AMI IN	Yellow	Steady Carrier Present				
		Winking: Audio pass-thru				
Reset/Light Intensity Button	Reset/Light Intensity Button					
Tap and then press and hold to increase/decrease light intensity.						



Key Adjust						
The key ad There is no	justment sets "save" button	the minimum force . Your changes are a	for each ke iutomatica	ey. Illy saved to n	nemory.	
Press "S	System Setup"					
			PNOr	nation	QRS PWR	
	Play Piano				0	
	System Setup		101 Dalmations /	Children's Music 2		
L 7	1-1	101 Dalmations				

101 Dalmations / Cruella De Vil (1961) Disney's Greatest Volume 1

.....

Press "Key Adjust" and then the "START" button.

ABCDE

Shutdown Options

ODC[®]

Back	Key /	Adjust 🦉	R
Key Adjust	Activate:	START	
Pedal Adjust		m	
General Adjustments		(1)	

Piano key #5 should begin to repeat.						
You must set the Legato AND Staccato Force level for each key.						
Back Key Adjust QRS						
Key Adjust	running	0		EXIT		

Key Adjust	running	\mathbf{O}	O pause		EXIT
Pedal Adjust			Key:		
General Adjustments	<<	<-	5	->	>>
			Force:		
l est Files	Legato:	Less	44	More	×tnd->
Network Settings	Staccato:	-	10	-	
Clock	Global:				
Update	Hints:				
Debug					
QRS°					

<- 5 ->	Previous Key / Key Number / Next Key
Less 44 More	Key "Force": Legato & Staccato. Adjust so key plays as softly as possible.
xtnd->	"Extend": Sets the Force value displayed to all notes upscale.
Global	Sets the Force value displayed to ALL notes upscale and down.
<< >>	Chromatic Scale: Down/Up. Use as a final test.
EXIT	You MUST press the EXIT button when finished.

Pedal Adjust

This procedure is not necessary on systems, usually uprights, that do not have a sustain pedal solenoid.

Press "Pedal Adjust" and then slide the "Start/Stop Test" button to the right to start the adjustment.

The sustain pedal solenoid and the sustain dampers should start to cycle ON and OFF.

Turn OFF the "Thump Reduction" by sliding the button to the left.

Press the "-" buttons to set the "Initial Drive" and "Hold" values to zero.

Watch the sustain dampers and press the "Initial Drive's" "+" button until the dampers move off the strings.

Then, press the "Hold's" "+" button until the dampers lift up and hold off of the strings.

Turn ON the "Thump Reduction" by sliding the button to the right. Thump reduction will pulse the pedal solenoid as it's release to break it's fall and reduce noise.

Adjust the release up and down until the solenoid drops quietly.

Stop the adjustment by sliding the "Start/Stop Test" button to the left.

Back		Pedal Ad	just	QRS
Key Adjust	Pedal Settings			
Pedal Adjust	Stop/Start Test			
General Adjustments	Initial Drive	-	60	+
Test Files			20	
Network Settings	Ποία	-	39	-
Clock	Release		68	+
Update	Thump Reduction	$\overline{}$		
Debug	Pause Test	\bigcirc		
QRS	WARNING: Changing th	nese values will effect p	layback performance of yo	ur pedal.

Test Files
Press "Test Files"
Select the desired test file.

Back	Test Files			
Key Adjust				
Pedal Adjust	101 Dalmations / Children's Music 2			
General Adjustments	QRS - Test Files			
Test Files	CRS - Test Files			
Network Settings	Test-Chromatic Velocity 127			
Clock	QRS - Test Files			
Update	Test-Plunger Hold QRS - Test Files			
Debug	Test-Solenoid Break In QRS - Test Files			
QRS	QRS - Test Files			
	CRS - Test Files			



Albums	
Artists	AUX Line In (AMI)
•	QRS Controller
Genres	MIDI In
External Input	
5	

Create a Playlist To create a playlist just touch the black box next to the song title. You may continue to select songs for the playlist or... 1 Press "Save Playlist x" to save you current selections with the default name. 2 Press "Save As..." to save your playlist with the name you choose. 3 Press the "Clear" button, before saving, to remove all of your current selections.



To Play a Playlist

Press "Playlist" at the left or at the bottom of the page.

Open a playlist by touching the playlist name.



Your playlist will open where you can
Play a song from the list.
Add more songs to your playlist



Shut Down Options

When you're finished playing piano press the QRS PWR icon in the upper right corner.

Then, when the Power Options window appears press the "Standby Mode" button.

Standby mode shuts off the voltage to the solenoids that drives the keys but, keeps the processor running.

PNOmation	ORS
Power Options	
PNOmation system is currently On ORS Standby Mode WR Christian	

Power Options
You can also enter standby mode by pressing the "Shutdown Options" button.
There are two other options from this window:
"Reboot" - Restarts the system in case the unit does not respond to commands.
"Shutdown" - Shuts OFF the system for a move or when the unit won't be used for a while.
To restart from this mode the unit must be disconnected and then reconnected to power.



Network Settings

Back	Network Settings		
Key Adjust			
		Host Settings	
Pedal Adjust	HostName	steveb	
		Hosts	
General Adjustments	IP Address	Aliases	
		127.0.0.1 localhost	
Test Files	192.168.1.117 steveb		
	192.168.1.117 steveb.local		
Network Settings	Wired Connection Settings		
internet in octaining o	Mada	6 0	
Clock	INIOGE	Networked Mode 💛 Stand-Alone	
		0 0	
Update	DHCP	Static IP 💛 DHCP	
	IP address	192.168.1.117	
Debug	Subnet Mask	255.255.255.0	
	Router		
ODC	DNS	0.0.0.0	
QRS	MAC address	74:a4:a7:00:00:78	

System Information

Back		System QRS		
Power	Software Versions			
	Serial#	PMII021100020		
System	Driver	1.47		
24.000	PPU	14		
System Log	PLX	9		
	10 pin PNOscan	161616160		
About	6 pin PNOscan	00000		
1000	Kernel	2.6.36.1		
	BSP Date	01-04-2011		
ORS	Network Connections			
dens	Ethernet	1921681117		
	Wi-Fi	histomested		
	Misc			
	Date	05-15-2011		
	Time	22:32:40		
	Align Date	06-13-2011		
	pid	807		
	Last patch	system_patch_2011-06-16.zip		
	Load	0.67		
	Uptime	0.09		
	Hardware Versions			
	Processor	armv5tejl		
	PCB	5		

Update Information		
To update your PMII software. The current version is shown as the Driver number in the System Information page.		
Download the latest "system_patch_2011-xx-xx.zip from the QRS website.		
Copy the zipped folder to a USB memory stick.		
Plug the USB memory stick in the USB port of the PLx box.		
The update procedure is automatic. Your system will reboot when the update is complete.		

Back	Update	QRS PWR
Key Adjust		
Pedal Adjust	Select Image	
General Adjustments	Internet	Check
Test Files	Local	Select
Network Settings	Status	
	Old patch file found	
Clock	Available Patches	
Indate	No patches available	
opullo	Applied Patches	
Debug	initial_2010_00_00	
	system_patch_2011-01-27.zip	
ORS	system_patch_2011-06-09.zip	
deno	system_patch_2011-06-14.zip	
	system_patch_2011-06-16.zip	





Link to PMII upgrade instructions

Get the free mobile app at: http://gettag.mobi



QRSPNO [http://192.168.1.1/qrs] Stand Alone Mode