

QRS Music Technologies, Inc.

PNOmation Installation Certification

Class Syllabus

Wednesday

8:30	<p>QRS Doors Open Coffee, Bottled Water & Soft Drinks QRS Promotional DVD: QRS and Charles Osgood - CBS Sunday Morning]- Playing QRS Pianomation History - Hand Out Portfolio - Hand Out: [Name Tags / Manuals / Catalogs / Brochures / Note Pad / Pen] Warranty Overview - Hand Out</p>	<p><u>Conference Room</u> Will Renninger John Omiatek Steve Bryan</p>
9:00	<p>Introduction to the PNOmation Kit Components</p> <p>Box 1: Power Supply / PMII Processor / Driver Boards / Speaker Cables / Hardware / Pedal Solenoid / Wi-Fi / PLx</p> <p>Box 2: Key Solenoids and Rail / Plungers Sustain & Sostenuto Trapwork / Rail Covers / Hardware</p>	<p><u>Conference Room</u> Will Renninger</p>
	<p>Installation Procedure...</p> <p>Preparing the Key Solenoid Rail: Key Solenoid Plunger Throw Key Solenoid Rail Assembly - Solenoid to Key Alignment</p>	<p><u>Installation Area</u> <i>Grand Piano - On Side</i> Will Renninger</p>
	<p><i>15 Minute Break</i></p>	<p><i>PMII Installation Manual</i> <i>[51074]</i></p>
	<p>Modifying the Keyframe - Grand Cutting the Keybed Slot - Grand</p>	
12:00	<p><i>Lunch at QRS</i> Playola Demo</p>	<p><u>Conference Room</u></p>
1:00	<p>Installing the Trapwork: Soft-Shift, Sustain and Sostenuto Introduction to the Sostenuto Assembly for a Steinway</p>	<p><u>Installation Area</u> <i>Grand Piano - On Side</i> Will Renninger</p>
	<p><i>15 Minute Break</i></p>	
	<p>Mounting and Connecting the Electronic Components: Power Supply Wi-Fi Adapter and Speaker PLx Box Key Solenoid Rail Driver Boards</p>	<p><i>PMII Installation Manual</i> <i>[51074]</i></p>
5:00	<p>Class Dismissed</p>	

Thursday

8:30	<p>QRS Doors Open Coffee, Bottled Water & Soft Drinks Playing - QRS SyncAlong DVD Questions?</p>	<p><u>Conference Room</u> Will Renninger John Omiatek Steve Bryan</p>
9:00	<p>...Installation Procedure Lost Motion Adjustment: Plunger-Tip to Keytail Height</p> <hr/> <p>Introduction to: Upright Installation Grand & Upright Stop Rails Nickelodeon Player</p> <hr/> <p><i>15 Minute Break</i></p>	<p><u>Installation Area</u> <i>Grand Piano - On Legs</i> Will Renninger</p> <p><i>PMII Installation Manual</i> <i>[51074]</i></p> <p><i>Stop Rail Manuals</i></p>
10:30	<p>PMII Adjustment Procedures Connecting to PMII via iPad, iPod/Touch, iPhone or Android Performance Parameters [Invert Keyboard/Magic Pedal/Lowest Key/# of Notes] PMII Key Adjust Pedal Adjust PNOscan Adjust</p> <hr/> <p>Completing the Installation - Discussion Test Files - Play for several hours to test operation. Install Rail Covers Attach Lyre & Braces Dress Cables</p>	<p><u>Conference Room</u> <i>Laptop - Big Screen</i> Steve Bryan</p> <p><i>PMII Installation Manual</i> <i>[51074]</i></p>
12:00	<p><i>Lunch at QRS</i> Grand and Upright Player Display Hands-On - Adjustment Procedures</p>	<p><u>Conference Room</u></p>
1:00	<p>Understanding PNOmation MIDI (PMM) / Components and Functions Front End Speaker & Wiring Processor Power Supply Rail Assembly Pedal Solenoid Assembly - Proper Adjustment Procedures</p> <hr/> <p>Troubleshooting PMM</p> <hr/> <p><i>15 Minute Break</i></p> <hr/> <p>QRS Legacy Products - Review QRS Knob Box / 2000C / CD2000+ / Serenade CD / Serenade Pro Chili / Ancho / Petine /// Shure Wireless / Barcus Berry</p>	<p><u>Conference Room</u> <i>QRS Test Benches</i> John Omiatek</p> <p><i>QRS Pianomation</i> <i>Wiring Diagram</i></p> <p><i>QRS Test & Alignment</i> <i>Box - 70256</i></p> <p><i>Upgrading Your QRS</i> <i>Pianomation MIDI</i> <i>System</i></p>
5:00	Class Dismissed	
6:15	Meet at local restaurant for Dinner	

Friday

8:30	QRS Doors Open Coffee, Bottled Water & Soft Drinks QRS SyncAlong DVD - Playing Questions?	<u>Conference Room</u> Will Renninger John Omiatek Steve Bryan
9:00	PNOScan II Installation [QRS Recording System] Optical Keyscan Boards Soft-Shift Circuit Board Sustain Pedal Board	<u>Installation Bay</u> <i>Grand Piano Action</i> Will Renninger
	<i>15 Minute Break</i>	<i>PNOScan II Installation Manual</i>
12:00	<i>Lunch at QRS</i> Review the Technicians Kit Hands-On - Adjustment Procedures	<u>Conference Room</u>
1:00	PMII Upgrade Kit Installation Procedures PMII MIDI [81529] for Piano Disc/Yamaha/LX PMII [81525] for QRS Systems	<u>Conference Room</u> <i>QRS Test Benches</i> Steve Bryan <i>PNOMation II</i> <i>Upgrade Instructions</i> <i>and User Guide</i>
	<i>15 Minute Break</i>	
	Basic PMII Operation PLx [Pin-Light Extension] Box Songs/Albums/Artists/Genre/Playlists & Playback Settings System Information Trial Activation Purchasing and Releasing Music / Unlock Content Standby and Network Modes Record External Sources	
4:30	Test	
5:00	Class Dismissed	

Portfolio Contents

Class Syllabus	QRS Music Catalog
QRS Music - Our History	QRS Roll Catalog
PMII Installation Manual - 51074	PMII Brochure
PNOScan Installation Manual - 79217C	PNOScan Brochure
Grand Stop Rail Installation Manual - 56065	
Upright Stop Rail Installation Manual - 56066	Test & Alignment Box Instructions
PNOMation II User Guide / Upgrade Instructions - 81525i	QRS Pianomation Wiring Diagram
	Upgrading your QRS Pianomation MIDI System
Note Pad / Pen	Processor 60108 Data Sheet
Name Tag for Portfolio	Petine Outline